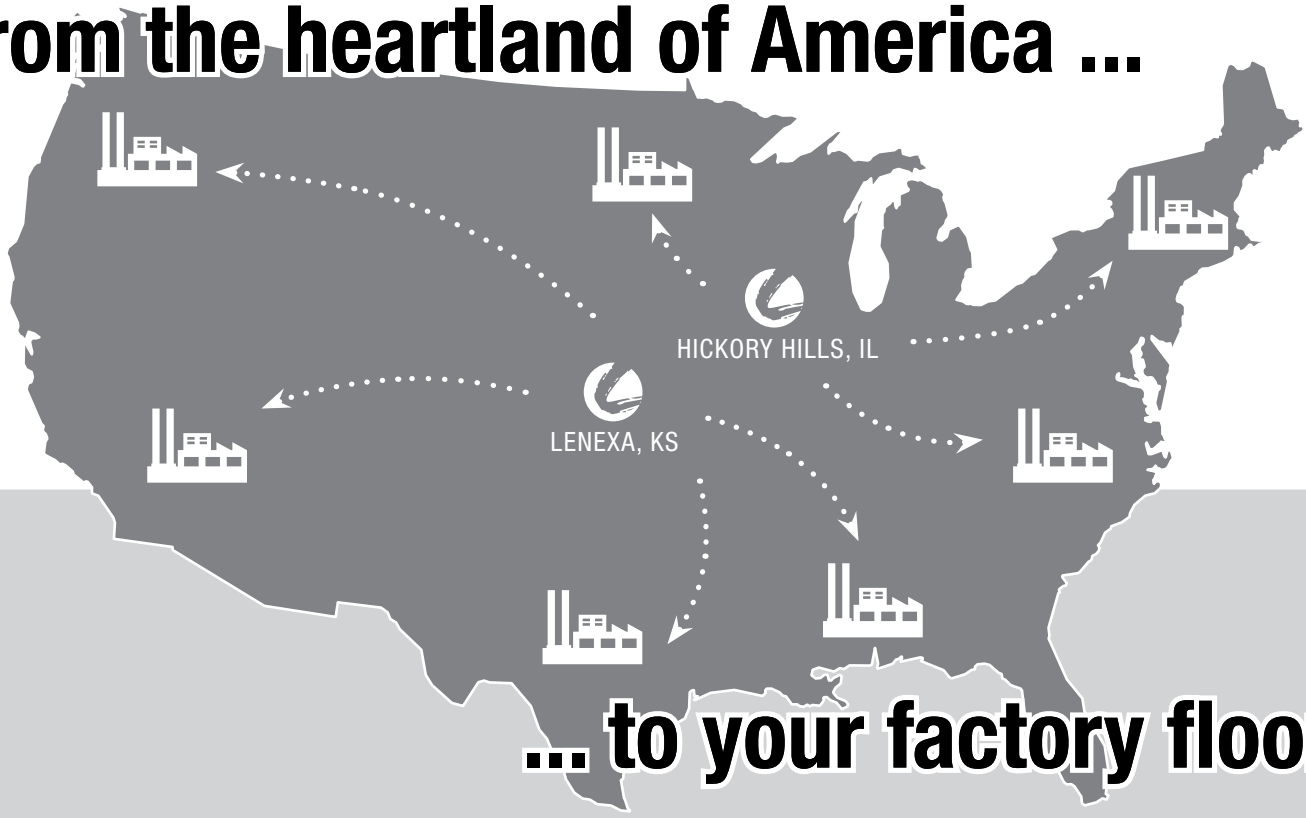
# clancey
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AMERICA'S PREMIER "DESIGN DISTRIBUTOR" OF MECHANICAL COMPONENTS™



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**Lenexa, KS 66214**

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**800.273.4508 (fax)**

**info@clancey.com**

Please Note:
The contents of this catalog are for reference only.

Dimensions and drawings in this catalog may not be complete or accurate, but they will be correct the majority of the time. We encourage you to request a part number specific drawing for use on your internal quality and procurement documents. We will do our best to get you a drawing in your CAD format if it is available.

It is the customer's responsibility to determine a part's suitability for use in their application. We encourage you to obtain samples for your internal development and testing.

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**Thanks for your consideration. Enjoy using our catalog.**

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Why buy from us?

- **Our word is our bond.** We will always give you a straight answer, promptly.
- **We are creative.** If you have a problem in our area of expertise, we can solve it.
- **We are fast.** It does not take long to get an answer from us. All of our employees are empowered to use their skills and experience to help you.
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| Blanket Ordering | Product Modifications |
| Consolidated Deliveries | Consigned Inventory |
| Consolidated Billing | Coordination of multiple locations or subcontractors |

# PRODUCT OFFERING
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**LATCHES // Pages 38-151 //** Compression • Pawl / Cam Action • Push-to-Close • Draw • Actuators



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# PRODUCT OFFERING
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**HYDRAULIC HOSE AND ADAPTERS // Page 343 //** Hose • Fittings • Adapters



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## TERMS AND CONDITIONS

**Shipping Terms:** F.O.B. Clancey Design Distributor warehouse – Lenexa, Kansas or Hickory Hills, Illinois, unless otherwise noted on a written quotation.

**Payment Terms:** Net 30 days, with approved credit.
For non-approved credit, we accept Visa, Mastercard, American Express, and we will ship C.O.D.

**Credit Requirements:** For credit approval customers must provide the following:

- Legal name and address of the Company.
- Phone number and fax number.
- Primary banking reference and account number.
- 3 current trade references.
- Company Officer's names and titles.
- Accounts payable contact.
- Federal ID number.
- Sales Tax Exemption number.

You may download a credit application from www.clancey.com.

**Credit Notes:** It generally takes 3 working days to establish an open account, please account for this time on your first order.

We reserve the right to limit the amount of credit we extend to you.

Our acceptance of your purchase order is based upon your credit account being current. If you fail to keep your account current, we may hold parts for shipment until receipt of payment.

**Quotations:** Quotations are valid for 30 days from date of issue, unless otherwise noted in the written quotation. We will do our best to maintain prices, but reserve the right to change prices at any time without notice.

**Returns:** Please call 1-800-747-7405 for a return goods authorization number. Please be prepared to describe the reason for the return and be able to provide the lot number and invoice number of the shipment. Returns will not be accepted without a return goods authorization number. Returns may be subject to a re-stocking charge.

**Notes:** The above statements are general disclaimers to protect our business interests. We pride ourselves on being flexible with our customers and we are will to work with you for our mutual benefit. Please call us. We can negotiate and confirm in writing terms and conditions which will work for both of us.

# NEMA 4 PRODUCTS

**The following products will meet NEMA 4 standards for electrical enclosures. Please consult your application specialist to confirm suitability of use for a product in your application environment.**



Vise Action latch
small size

Page 38



Vise Action latch
stainless steel, small, size

Page 39



Vise Action latch

Page 40



Vise Action latch
stainless steel

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Vise Action latch
large size

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Vise Action latch
wing head style

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Round, Flush
lift & turn latch
stainless steel, small

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Flush, medium
lift & turn latch

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Sealed lever latch

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Padlocking cam latch

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Quad latch
glass-filled nylon

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Quad latch
die cast

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Quad latch
stainless steel

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quad latch

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sealed cam locks

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Liquid tight fittings
straight-thru

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Liquid tight fittings
pig tail

Page 312



Liquid tight fittings
right angle

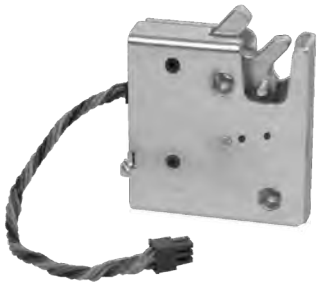
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**Looking for the NEMA 4 oval designating these products.**

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## R4-EM ELECTRONIC ACCESS



The efficient DC gear motor driven system releases the rotary cam under heavy loads with minimal power consumption.

The proven rotary mechanism provides push-to-close convenience and a secure closure.

Convenient mechanical over-ride feature for manual release in case of power failure. Contact Clancey for manual release cables and mounting brackets

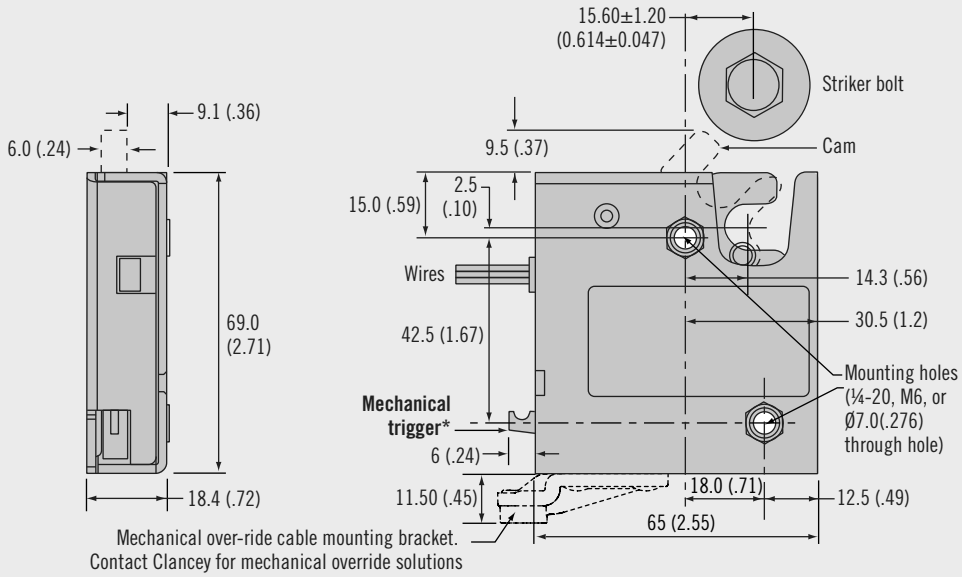


**The R4-EM Electronic Rotary Latch provides a simple, versatile electromechanical latch solution for a variety of applications. Add a 12-24 Volt DC power supply and any access control device to the R4-EM for a secure, concealed electronic access solution. The optional internal microswitch provides an output signal to remotely monitor latch status or control external systems.**

- **Auto re-lock and delayed re-lock version.**
- **Push-to-close, electronic release.**
- **Versatile rotary mechanism.**
- **Concealed latching.**
- **Microprocessor control.**
- **High strength.**
- **Minimal power draw.**
- **Simple mechanical over-ride.**
- **Optional internal microswitch for latch open/ close output signal.**

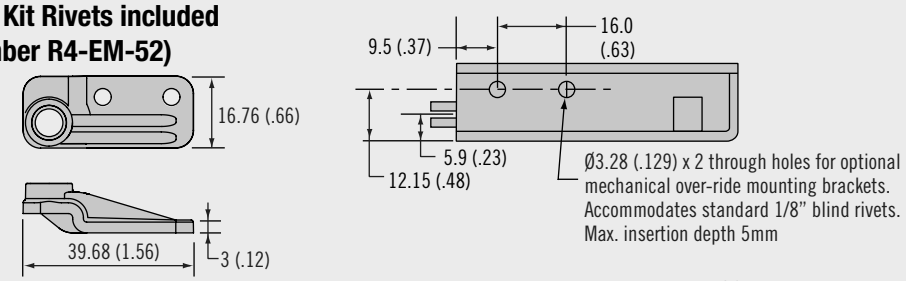
| R4EM PART NUMBER | | | | |
|---|---|---|---|---|
| Type | No Microswitch** | | With Microswitch** | |
| | With connector | Without connector | With connector | Without connector |
| 1/4 - 20 Threaded mounting | **R4-EM-X1-131** | **R4-EM-X1-132** | **R4-EM-X1-161** | **R4-EM-X1-162** |
| M6 Threaded mounting | **R4-EM-X2-131** | **R4-EM-X2-132** | **R4-EM-X2-161** | **R4-EM-X2-162** |
| Ø 7.0 (.27) Thru hole mounting | **R4-EM-X3-131** | **R4-EM-X3-132** | **R4-EM-X3-161** | **R4-EM-X3-162** |
| **STRIKER BOLT PART NUMBER** | | | | |
| Striker bolt | **R4-90-121-10** | | | |

X=1 for Auto Re-lock version
X=2 for Delayed Re-lock version
Dimensions in millimeters (inch) unless otherwise stated

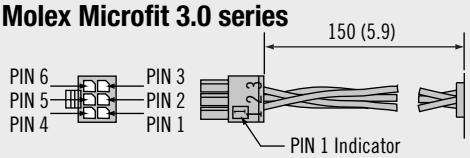



Mechanical over-ride cable mounting bracket.
Contact Clancey for mechanical override solutions

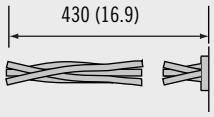
**Mounting Kit Rivets included (Part Number R4-EM-52)**



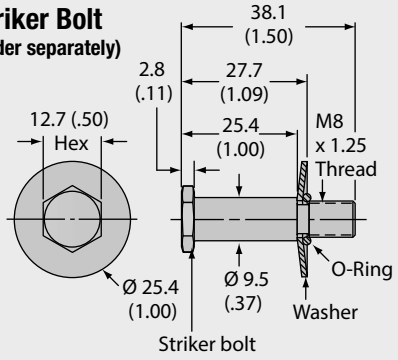

**Optional Latch Connector Molex Microfit 3.0 series**

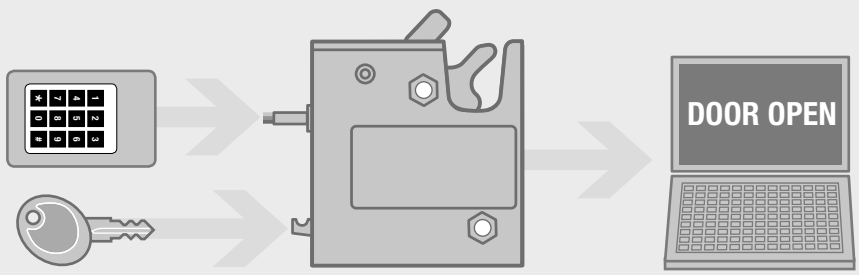



**Without connector**




**Striker Bolt**
**(order separately)**




## Material & Finish

Mechanism Housing:
Steel, zinc plated
Cam, trigger: Steel, zinc plated
Springs: 300 Series stainless steel
Pins: Steel, zinc plated

Electronic Actuator:
Housing: PC/ABS
Cam / follower: Acetal

## Electrical Specifications

Recommended Operating Voltage:
12 to 24 Volt DC
Typical Operating Current (average at no load): Less then 600mA at 12 VDC
Input Signal Current Draw: 25mA MAX at 24 VDC
**Optional microswitch closes upon latch closure
Microswitch Rating: 3A MAX at 12VDC

## Wire Color Code / Connector Pin Assignment:

PIN 1: Brown: Ground (-)
PIN 2: Red: Power 8 to 26 Volts DC
PIN 3: Orange: Control Signal
8 to 26 Volts DC
PIN 4 Black: Microswitch Common
PIN 5 Blue: Microswitch N.O. Contact
PIN 6 Grey: Microswitch N.C. Contact

Wire Length: 150mm with connector, 430mm without connector

Contact Clancey for mate connector and wire harness

## Notes

For mechanical release actuators and cables contact Clancey

Parts are shipped individually boxed. For bulk packaging add -1 to the end of the part number

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## R4-EM LIGHT DUTY ELECTRONIC ROTARY LATCH

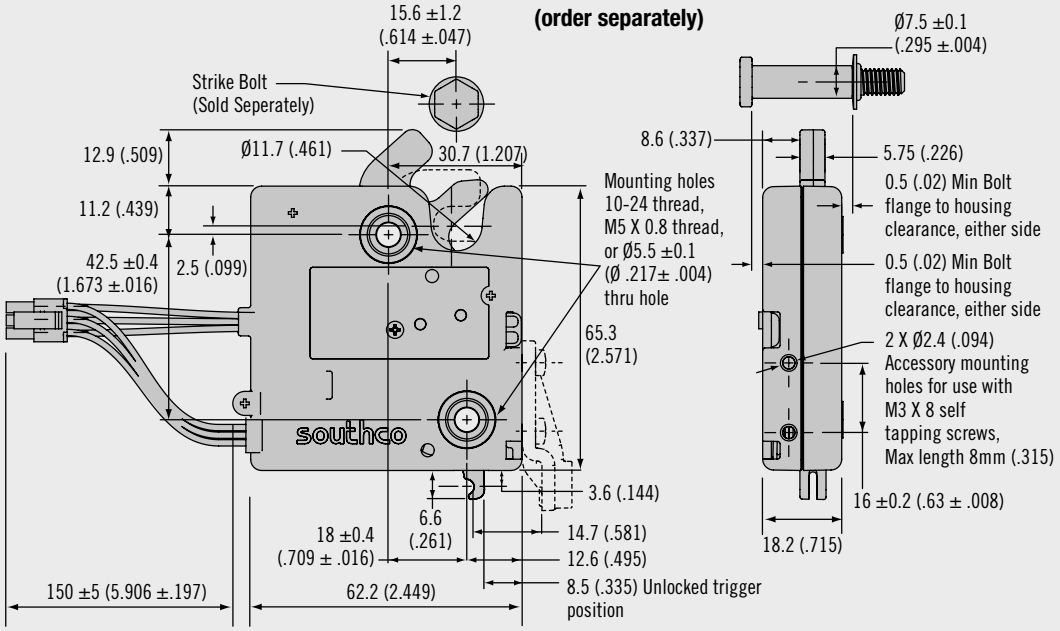


**The R4-EM Light Duty Electronic Rotary Latch provides a simple, versatile electromechanical latch solution for a variety of applications. Add a 12-24 Volt DC power supply and any access control device to the R4-EM for a secure, concealed electronic access solution. The optional internal microswitch provides an output signal to remotely monitor latch status or control external systems. The Light Duty R4-EM provides a 65% weight savings over the standard steel housing version.**

- **Auto re-lock and delayed re-lock version.**
- **Push-to-close, electronic release.**
- **Versatile rotary mechanism.**
- **Concealed latching.**
- **Microprocessor control.**
- **Minimal power draw.**
- **Simple mechanical over-ride.**
- **Optional internal microswitch for latch open/ close output signal.**

| R4EM PART NUMBER | | |
|---|---|---|
| Type | No Microswitch** | With Microswitch** |
| | With connector | With connector |
| Ø 5.5 (.22) Thru hole mounting | R4-EM-X3-131 | R4-EM-X3-161 |
| M5 Threaded mounting | R4-EM-X4-131 | R4-EM-X4-161 |
| 10-24 Threaded mounting | R4-EM-X5-131 | R4-EM-X5-161 |
| **STRIKER BOLT PART NUMBER** | | |
| Striker bolt | R4-90-511-20 | |

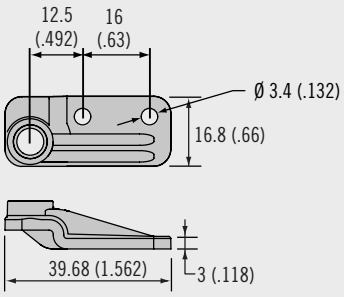
X=4 for Auto Re-lock version
X=6 for Delayed Re-lock version
Dimensions in millimeters (inch) unless otherwise stated

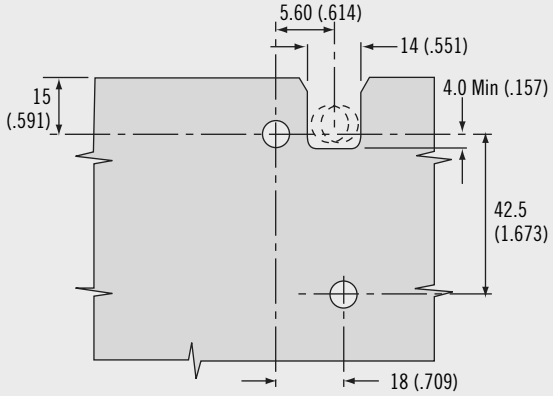



**Striker Bolt**
**(order separately)**

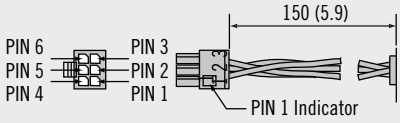



**Mounting Kit Screws Included**
**(Part Number R4-EM-72)**

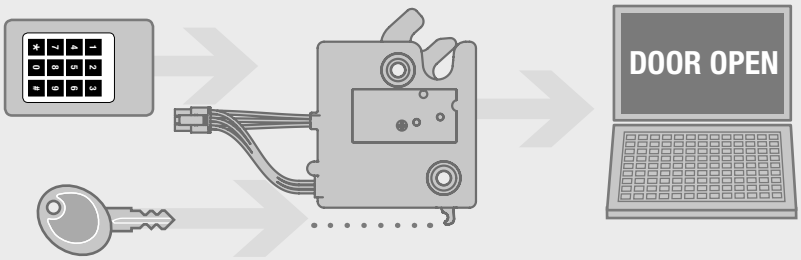



**Latch Connector**
**Molex Microfit 3.0 series**




**Available without connector with 430mm (16.9in) length wires (stripped and tinned). Contact Clancey for details.**




### Material & Finish
Housings: PC/ABS
Cam: Glass Filled Nylon
Trigger: PBT
Springs: Stainless Steel
Pins: Steel, zinc plated

### Electrical Specifications
Recommended Operating Voltage: 12 to 24 VDC
Typical Operating Current (average at no load): Less than 600mA at 12VDC
Input Signal Current Draw: 25mA Max
**Optional microswitch closes upon latch closure
Microswitch Rating: 3A Max at 12 VDC

### Wire Color Code / Connector Pin Assignment:
PIN 1: Brown: Ground (-)
PIN 2: Red: Power 8 to 26 Volts DC
PIN 3: Orange: Control Signal
8 to 12 Volts DC (Contact Clancey for Higher Voltage Requirements)
PIN 4 Black: Microswitch Common
PIN 5 Blue: Microswitch N.O. Contact
PIN 6 Grey: Microswitch N.C. Contact

Wire Length: 150mm (5.90) with connector

Contact Clancey for mate connector and wire harness

### Notes
For mechanical release actuators and cables contact Clancey

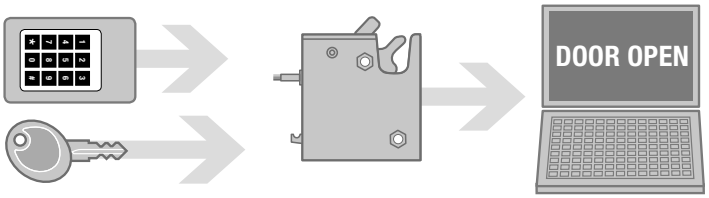
Parts are shipped individually boxed. For bulk packaging add -1 to the end of the part number (40 per box)

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## R4-EM OUTDOOR ELECTRONIC ROTARY LATCH






**The R4-EM Electronic Rotary Latch with sealed actuator and plated-steel or stainless steel outer body construction provides a versatile electromechanical latch solution for outdoor and corrosive environments. Add a 12-24 Volt DC power supply and any access control device for a secure, concealed electronic access solution. The internal micro-switch options provide an output signal to remotely monitor latch status and control external systems.**

- **Push-to-close, electronic release.**
- **Versatile rotary mechanism.**
- **Motor actuator sealed against water and dust ingress to IP56.**
- **High strength plated-steel and stainless steel options.**
- **Concealed latching.**
- **Microprocessor control.**
- **Delayed re-lock functionality.**
- **Minimal power draw.**
- **Optional internal micro-switch for latch status.**
- **Simple mechanical over-ride.**

Part Number Selection

R4-EM - [T] [B] [A] - 1 [S] [C] - [P] [M]

[T] **Trigger Style**
**7** Delayed Relock, Side Trigger
**R7** Delayed Relock, Rear Trigger

[B] **Base Mounting Style**
**1** 1/4-20 Threaded Mounting
**2** M6 Threaded Mounting
**3** Thru Hole Mounting

[A] **Alternate Configurations**
**None** Light Cam Spring
**2** Strong (Kick Out) Cam Spring

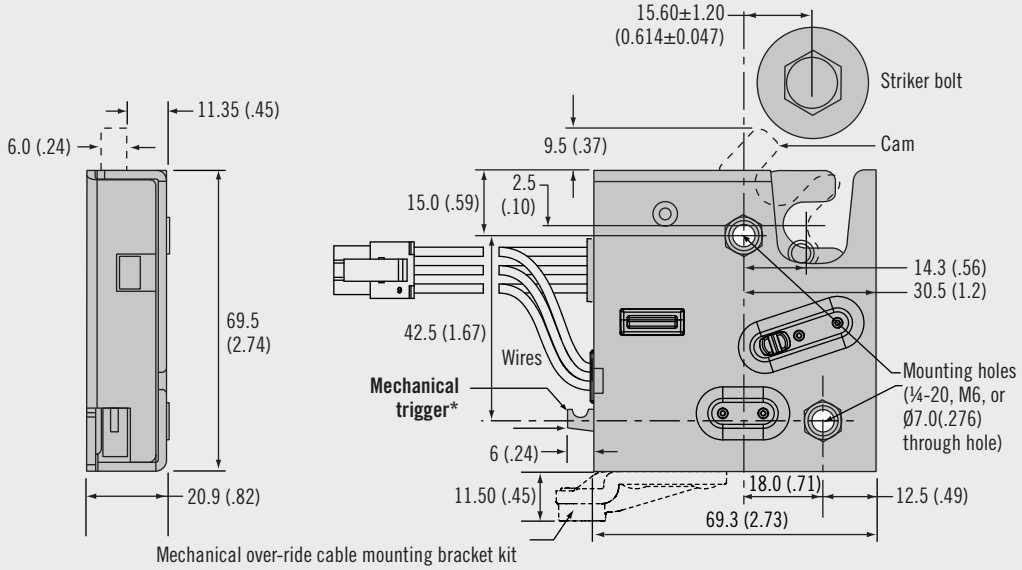
[C] **Connector Options**
**1** Non-sealed Connector
**2** No Connector (Stripped and Tinned)
**3** Sealed Connector

[P] **Packaging Options**
**None** Individually Packaged
**1** Bulk Packaged

[M] **Material Options**
**None** Steel, Zinc-Nickel Plated
**B** Stainless Steel, Passivated

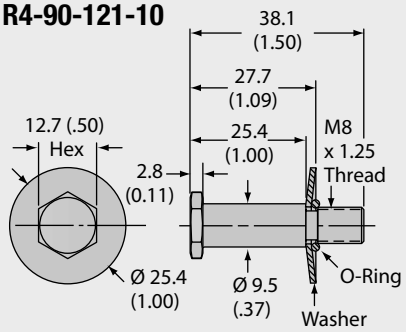
[S] **Switch Options**
**3** No Switch
**6** Single Switch (Cam Only)

### Side Trigger Version

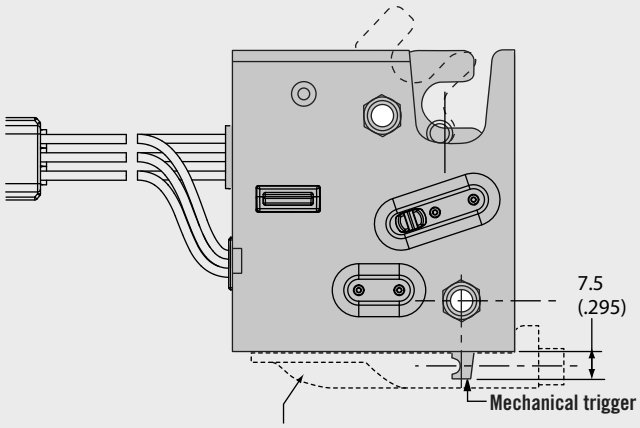



Mechanical over-ride cable mounting bracket kit for side trigger latch (R4-EM-52).
Contact Clancey for mechanical over-ride solutions

### Striker Bolt (Order Separately) R4-90-121-10

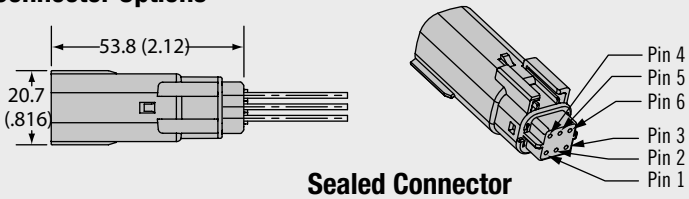



### Rear trigger Version

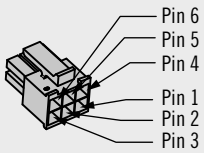



Mechanical over-ride cable mounting bracket kit for rear trigger latch (R4-EM-87).
Contact Clancey for mechanical over-ride solutions.

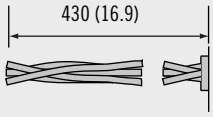
### Connector Options




**Sealed Connector**




**Non-sealed Connector**




**No Connector**

### Material & Finish

Mechanism
Housing, Cam, Trigger, Pins: Zinc
Nickel plated steel or stainless steel
Springs: 300 Series stainless steel
Electronic Actuator
Housing: PC/ABS
Bellows, Wire Seal: Silicone
Perimeter Seal: Buna
Cams: Acetal
Grommet: Santoprene

### Electrical Specifications

Recommended Operating Voltage: 12 to 24 Volt DC
Typical Operating Current (average at no load): Less then 600mA at 12 VDC
Input Signal Current Draw: 25mA MAX at 24 VDC
Micro-switch Rating: 3A MAX at 12VDC

### Wire Color Code / Connector Pin Assignment:

PIN 1: Brown: Ground (-)
PIN 2: Red: Power 12 to 24 Volts DC
PIN 3: Orange: Control Signal 12 to 24 Volts DC
PIN 4 Black: Microswitch Common
PIN 5 Blue: Microswitch N.O. Contact
PIN 6 Grey: Microswitch N.C. Contact

Contact Clancey for mate connector and wire harness options

### Notes

For mechanical release actuators and cables contact Clancey

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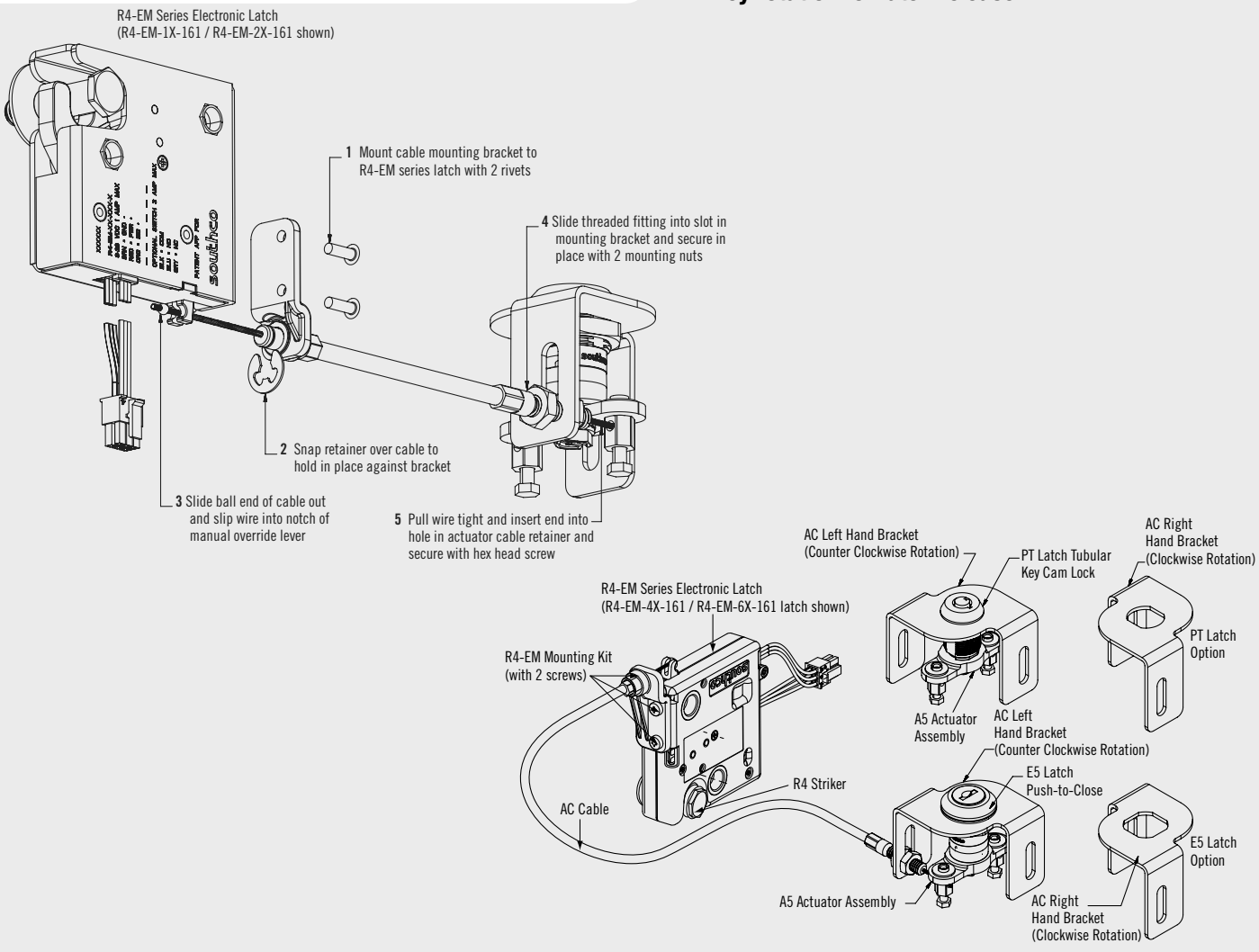
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## R4-EM MECHANICAL OVERRIDE SYSTEM

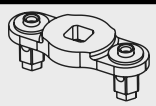
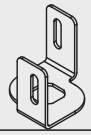


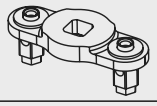
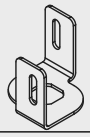
**Southco now offers a standard solution for remote mechanical actuation of the R4-EM Electronic Rotary Latch. The cable based solution provides a simple means of mechanically releasing the electronic lock in the event of electrical power loss providing fully redundant access.**

- **Adapts to any standard Southco R4-EM Electronic Rotary Latch.**
- **Choose from flat key or tubular key cam latch for remote key lock.**
- **Simple installation with multiple adjustments and customized cable lengths to suit any application.**
- **Accommodates clockwise or counter clockwise key rotation for latch release.**



## AC CABLE ASSEMBLY

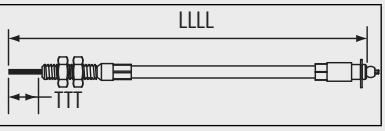
| | DESCRIPTION | PART NUMBER | |
|---|---|---|---|
| **E5 Latch**<br>**Push-to-Close assembly**<br>See drawing J-E5-53-A | A5 Actuator | **A5-99-136** |  |
| | AND | | |
| | AC Cable Bracket<br>(Clockwise Rotation) | **AC-0-49617-11-R** |  |
| | OR | | |
| | AC Cable Bracket<br>(Counter Clockwise Rotation) | **AC-0-49617-11-L** |  |

| | DESCRIPTION | PART NUMBER | |
|---|---|---|---|
| **PT Latch**<br>Tubular Key cam Lock<br>See drawing J-PT-1 | A5 Actuator | **A5-99-157** |  |
| | AND | | |
| | AC Cable Bracket<br>(Clockwise Rotation) | **AC-0-49618-11-R** |  |
| | OR | | |
| | AC Cable Bracket<br>(Counter Clockwise Rotation) | **AC-0-49618-11-L** |  |

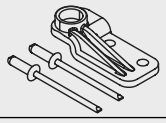
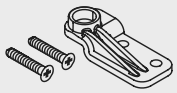
### How to Order

**Step 1**
Select mechanical override lock and corresponding AC actuator assembly and AC cable bracket



| | | | |
|---|---|---|---|
| **Mechanical Cable**<br>See drawing J-AC-C | AC-C0H0-4-LLLL-TTT | LLLL - Length from behind ball end to end of cable<br>TTT - Raw cable extension portion of LLLL length |  |

**Step 2**
Determine mechanical cable length required

| | | |
|---|---|---|
| **Mechanical Override Bracket for R4-EM-1X and R4-EM-2X versions**<br>See drawing J-R4-EM-52 | **R4-EM-52** |  |
| **Mechanical Override Bracket for R4-Em-4X and R4-EM-6X versions.**<br>See drawing J-R4-EM-72 | **R4-EM-72** |  |

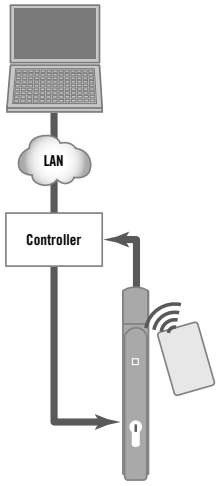
**Step 3**
Order mechanical over ride bracket (one per R4-EM latch)

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## H3-EM ELECTRONIC LOCKING SWINGHANDLE

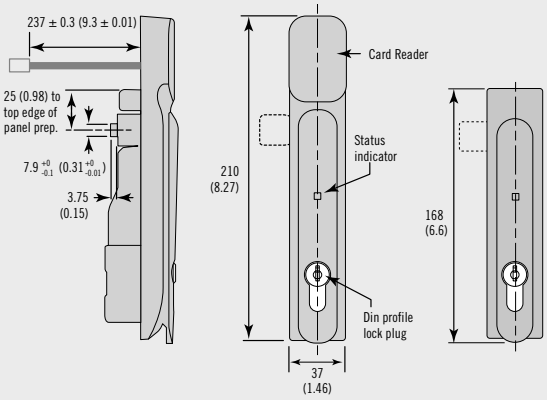





**The H3-EM Electronic Locking Swinghandle provides intelligent electronic locking and monitoring capabilities with or without RFID card reader. The RFID module output can be connected to a standalone controller or to any networked access control system for remote control, monitoring and reporting.**

- **Remote lock and unlock.**
- **Momentary or continuous lock actuation.**
- **Local monitoring with multi-color LED indicator.**
- **Lock status outputs provided for remote monitoring.**
- **Industry standard 25x150mm panel prep.**
- **Integral key lock for manual over-ride.**
- **Options for combined electronic lock and RFID card reader.**
- **Reader recognizes existing employee RFID cards.**

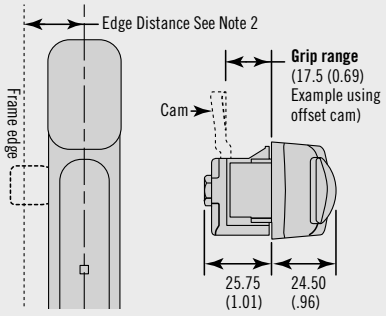
### Swinghandle with Card Reader




### Edge Distance

For cam length of 38mm (1.5) - Edge Distance of 30mm (1.2)

For cam length of 45mm (1.8) - Edge Distance of 37mm (1.5)




| CAM PART NUMBER (ORDER SEPARATELY) | | |
|---|---|---|
| Grip | Cam length (1) 38 (1.5) | Cam length (2) 45 (1.77) |
| 15.5 (.61) | E5-6710 | - |
| 17.5 (.69) | E5-6711 | - |
| 19.5 (.77) | E5-6712 | E5-6112 |
| 21.5 (.85) | E5-6713 | E5-6113 |
| 23.5 (.93) | E5-6714 | E5-6114 |

Other additional offsets:
(1) See Drawings J-E5-67-A & J-E5-67-B
(2) See Drawings J-E5-61-A & J-E5-61-B

Electronic Swinghandle Part Number Selection

H3-EM - 6 [R] - [L] 00 -10***

**[R] Card Reader type**
- **0** Without Card Reader
- **7** MIFARE® Classic with Wiegand Data Output *
- **8** HID 125kHz RFID with Wiegand Data Output **
- **9** HID 125kHz RFID with RS232 Data Output **

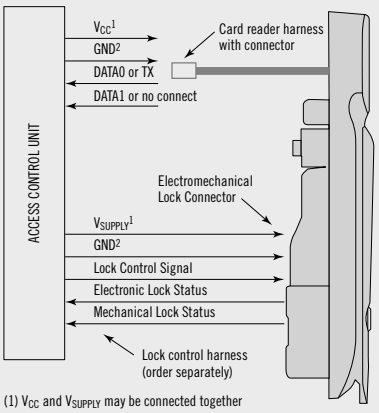
**[L] Lock style**
- **1** High Security DIN Lock
- **2** Key Code CH-751
- **3** Key code RS001 (Multiple RS Key Codes Available)



Card Part Numbers

**EA-C2-021-9 (HID 125kHz, 26bit, 1.8 (0.07) thick**)**
**EA-C2-021 (HID 125kHz, 26 bit, 1.8 (0.07) thick, no logo)**)**
**EA-C3-101-9 (MIFARE® Classic, 4B CSN, 0.8 (0.03) thick)***
**EA-C3-101 (MIFARE® Classic, 4B CSN, 0.8 (0.03) thick, no logo)***
**Contact Clancey for Custom Color/Logo Options**

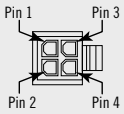
### Connection Diagram




(1) $V_{CC}$ and $V_{SUPPLY}$ may be connected together
(2) EML and Card reader must use a common GND

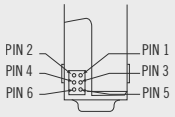
### Connector Pin Assignment

Card Reader Module (Molex Micro Fit 3.0 Series)
PIN 1: Ground (Black wire)
PIN 2: Power (VCC) (Red wire)
PIN 3: DATA0 or TX (Green wire)
PIN 4: DATA1 or no connect (White wire)
* See latch operating instructions for specifics)



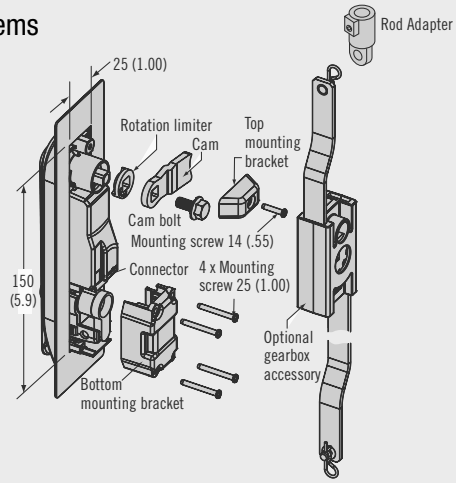

### Electronic Swinghandle (Hirose DF11 Series)

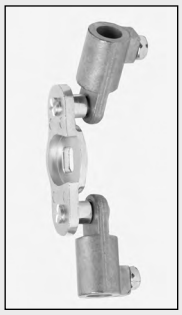
PIN 1: Ground
PIN 2: Power (Vsupply)
PIN 3: Not Used
PIN 4: Control signal
PIN 5: Electronic lock status output
PIN 6: Mechanical lock status output




| 5 METER WIRE HARNESSES (ORDER SEPARATELY) | |
|---|---|
| **PART NUMBER** | **DESCRIPTION** |
| **EA-W01-500*** | From Swinghandle to Stripped and Tinned End |
| **EA-W23-502*** | From RS-232 Output Card Reader to Stripped and Tinned End |
| **EA-W23-503*** | From Wiegand Output Card Reader to Stripped and Tinned End |
| **EA-W23-503-83*** | From Wiegand Output Card Reader to EA-P1-01X (Pin/Prox Controller) |
| **EA-W01-23-507*** | From Swinghandle and Card Reader to Stripped and Tinned End |
| **EA-W01-23-507-03*** | From Swinghandle and Card Reader to Hirose 8-Pin Connector |
| *Contact Clancey for other lengths | |

### Rod systems



Actuator Plate

| ROD SYSTEM PART NUMBERS (ORDER SEPARATELY)* | |
|---|---|
| **H3-61-55-33** | Left Hand Gearbox (CCW to open) |
| **H3-61-56-33** | Right Hand Gearbox (CW to open) |
| **A5-92-201-31** | Rod Adapter |
| **A5-90-101-11** | Actuator Plate |

* For multi-point systems, select either the right or left hand gear box part number and rod adaptor (2 per door) part numbers or the actuator plate part number from table, then contact Clancey for rod selection.

### Material & Finish

Glass Filled Nylon, PC/ABS (UL94-V0)
Shaft, rotation limiter: Die-cast zinc, bright sealer

### Electronic Swinghandle

Recommended operating voltage: 12VDC to 24VDC
Typical operating current:
Less than 200mA at 12VDC
Peak / stall operating current: 1 Amp
Standby current: 50mA Max
Output Signal: 100mA Max load

### Card Reader Module

Supply voltage: 12VDC to 24VDC
Operating current: 60mA Max

### To Order:

1 Select required Electronic Swinghandle part number using selection guide.
2 Select cam part number using cam part number table.
3 For multi-point applications, select optional gear box / rod adaptors or actuator plate.
4 Select optional wire harness.
5 Order cards as needed.

For standalone systems order Southco EA-P1-010 controller.

Contact Clancey for details on ordering networked systems.

### Note:

***Remove '-10' for latch without Southco Logo

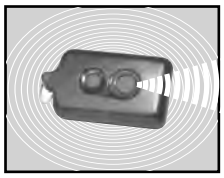
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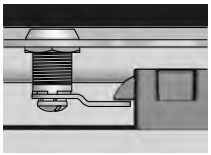
## EM-10 ELECTRONIC KEEPER

- **Electronic keeper designed to work in conjunction with lockable mechanical latches.**
- **Multiple configurations for design flexibility.**
- **Convenient installation.**
- **Secure performance.**

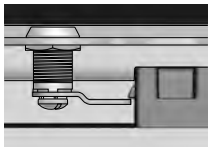


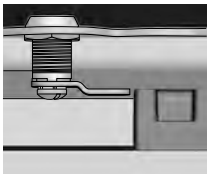
**ELECTRONIC ACTUATION EXAMPLE:**



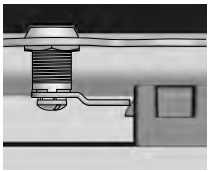
1 Closed



2 Electronic signal retracts latch bolt temporarily.

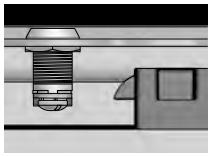


3 Open





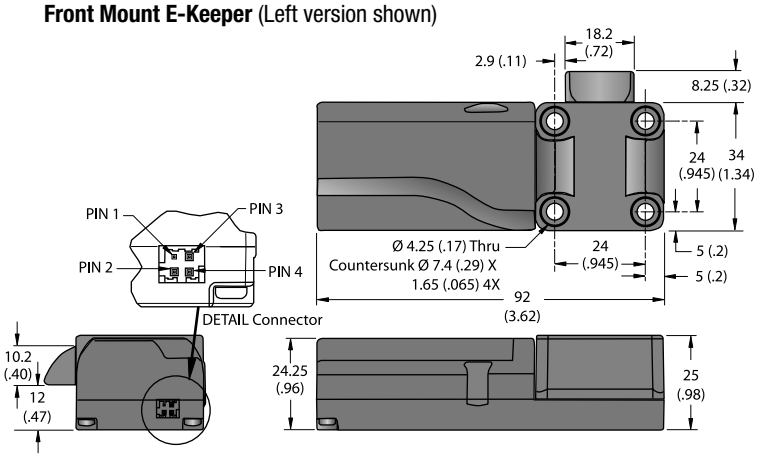
**MANUAL ACTUATION EXAMPLE:**



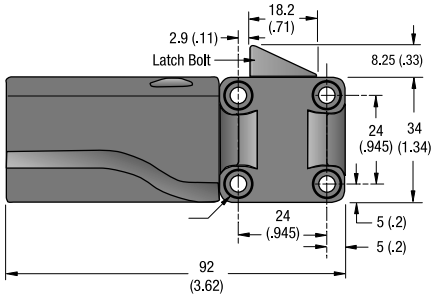
*Simply use key to rotate mechanical cam mechanism from behind latch bolt.*

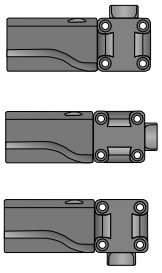
Key provides mechanical override in case of power loss.

**Front Mount E-Keeper** (Left version shown)




**Side Mount E-Keeper** (Left version shown)



| PART NUMBER | Side Mount Version |
|---|---|
| EM-10-23-310 | Left |
| EM-10-21-310 | Center |
| EM-10-32-310 | Right |

| | |
|---|---|
| EM-10-40 | Mate connector with 300mm (11.81) wire leads. |

**Please contact one of our application specialists for assistance with this product.**

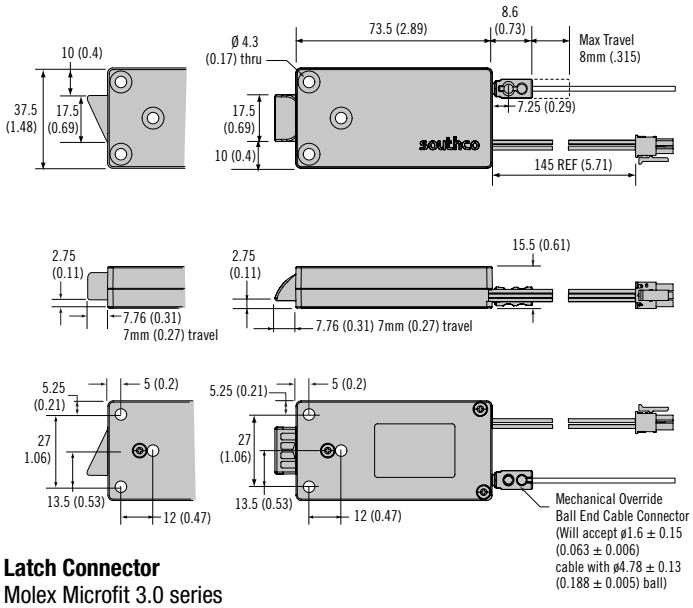
**1-800-747-7405**
**www.clancey.com**

- **Simple transition from mechanical to electronic access**
- **"Push-to-close" convenience for any application – retrofit or new installation.**
- **Front mount and side mount versions.**
- **Concealed latching.**
- **Microprocessor controlled gear motor.**
- **Minimal power draw.**
- **Simple mechanical override.**
- **Optional internal microswitch for latch open/close output signal.**
- **Wide operating voltage range (8-26 VDC).**
- **Accepts signals from any electronic actuation source**
- **Single or multi-point latching.**
- **Works with a variety of door mounted mechanical latches.**

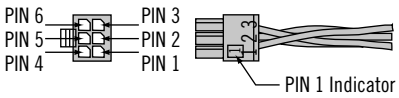
## EM-05 MINIATURE ELECTRONIC KEEPER



**Side Mount** **Front Mount**




**Latch Connector**
Molex Microfit 3.0 series




### Material & Finish

Enclosure & Latch Bolt:
Thermoplastic
Housing Assembly Screws:
Steel, Zinc Plate

### Electrical Specifications

Recommended Operating Voltage:
12 - 24 VDC
Typical Operating Current:
Less than 600mA at 12 VDC

### Control Input

Retracted Position: 12-24 VDC
The latch bolt will remain retracted for as long as the signal is present or a minimum of 1 second.
Input Signal Current: 25mA Max at 24 VDC
Extended Position: 0 VDC

### Wire Color Code / Connector Pin Assignment:

PIN 1 Brown: Ground (-)
PIN 2 Red: Power 8 to 26 VDC
PIN 3 Orange: Control Signal 8 to 26 VDC
PIN 4 Black: Microswitch Common
PIN 5 Blue: Microswitch N.O. Contact
PIN 6: None

| MINIATURE ELECTRONIC KEEPER PART NUMBERS | | | | |
|---|---|---|---|---|
| Type | With Mechanical Override | | Without Mechanical Override | |
| | With Switch | Without Switch | With Switch | Without Switch |
| Front Mount Latch Bolt | **EM-05-11-111** | **EM-05-11-101*** | **EM-05-11-110** | **EM-05-11-100** |
| Side Mount Latch Bolt | **EM-05-21-111** | **EM-05-21-101*** | **EM-05-21-110** | **EM-05-21-100** |

* For Mechanical Version of Front Mount Style order part number EM-05-11-001
* For Mechanical Version of Side Mount Style order part number EM-05-21-001
(Mechanical version does not include drive motor or electronics)

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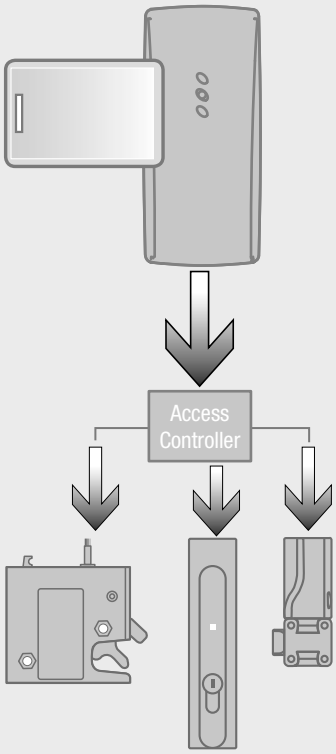
southco® AUTHORIZED DISTRIBUTOR

## EA-P3 125KHZ PROXIMITY READER ELECTRONIC ACCESS




**The new Southco EA-P3 Proximity Reader provides convenient, secure, non-contact access control in a compact easy to use design. The EA-P3 reads HID 125 kHz prox cards or tags and produces a standard 26 bit Wiegand output common to most access control systems. The reader can be combined with the Southco EA-P1 Pin/Prox reader for a complete access control system, or combined with any existing 26 bit Wiegand based access controller to add additional keyless entry points to existing security systems.**

- **Non-contact proximity based access control.**
- **Reads HID compatible 125kHz prox cards.**
- **Standard 26 bit Wiegand output.**
- **Integrated LED status indicator.**
- **Compact, low profile design.**
- **Simple, 3 hole installation.**
- **Sealed weather resistant design.**

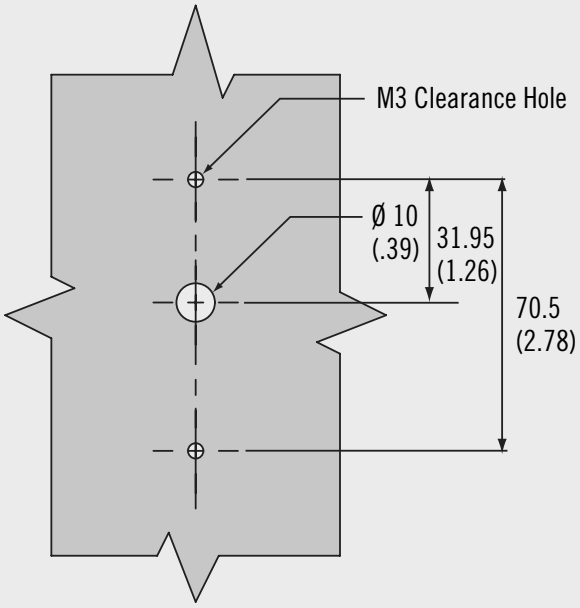



| Wire Harness Legend | |
|---|---|
| Wire Color | Function |
| Red | VCC (12VDC) |
| Black | GND |
| White | Data 1 |
| Green | Data 0 |
| Yellow | GND |
| Brown | No Function |
| Orange | No Function |
| Blue | No Function |

| Part Number Selection | |
|---|---|
| **EA-P3-101-1** | Proximity Reader (Gray Enclosure*) |
| **EA-C2-021** | Proximity Card (No Logo*) |

* Contact Clancey for Custom Color and Logo Options

## Panel Preparation




## Material & Finish

ABS Plastic

## Electrical Specifications

Supply Voltage: 12VDC +/- 10%

Operating Current: 60 mA MAX (No Attached Devices)

Operating Temperature: -15 to 55 0C

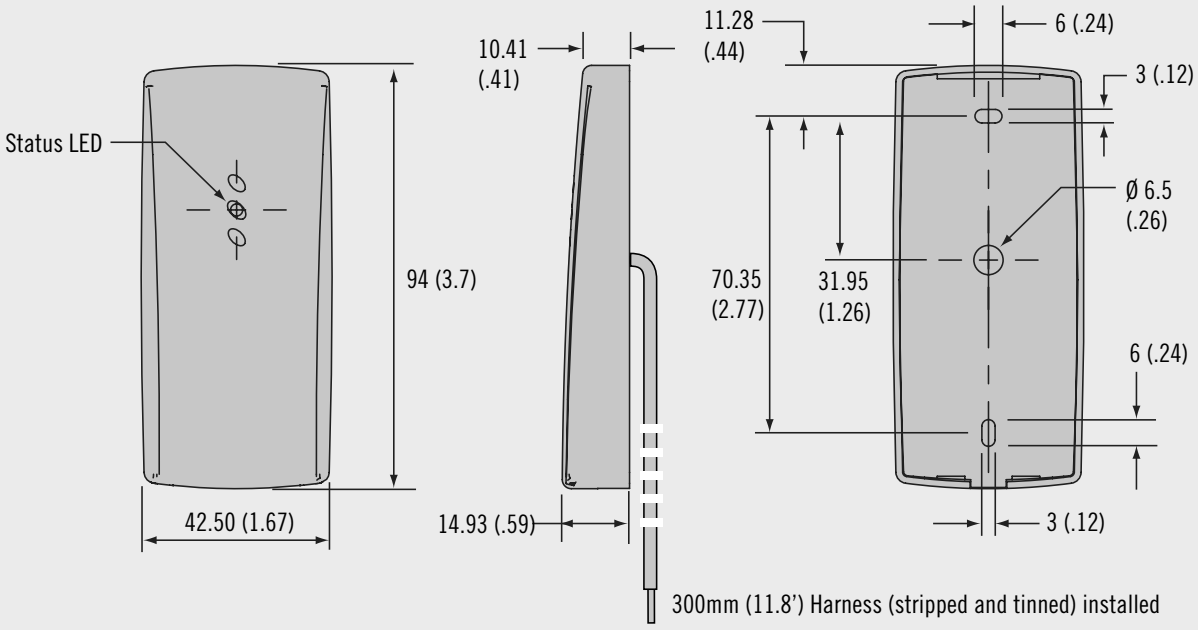
Operating Humidity: 20-90% RH, No condensation

Transmit Frequency: 125kHz (FSK)

Read Range: Up to 10cm

26 Bit Wiegand Output

Reader will convert the user card ID to 26 bit Wiegand format



CAD POWERED

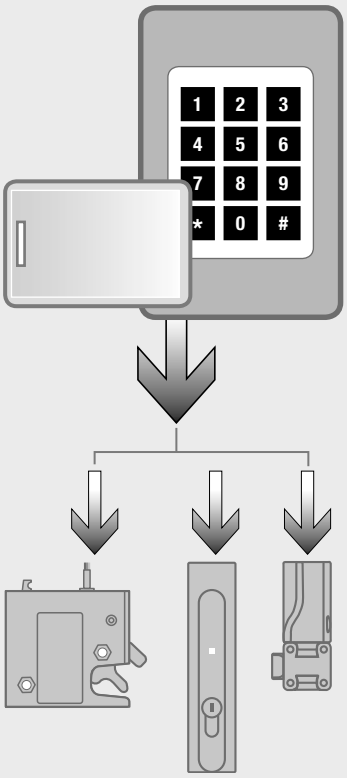
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## EA-P1 SERIES PIN/PROX ACCESS CONTROLLER




**The self-contained PIN/Prox controllers provide basic PIN/Prox access control with the flexibility to use PIN only, Prox only, or both PIN and Prox for added convenience and security. Simply supply 12 volt DC power and connect the output to any SOUTHCO® electromechanical latch for a complete electronic access solution. Enter a valid PIN or present a programmed prox card to the controller to produce an actuation signal.**

- **Simple card/PIN programming.**
- **LED indicator and audible feedback for programming and lock status.**
- **Up to 9,999 cards per controller.**
- **Non-volatile memory retains data after power is removed.**
- **Programmable door release time and alarm time.**
- **For use with EA-C1 series prox cards.**
- **Custom color and logo options.**



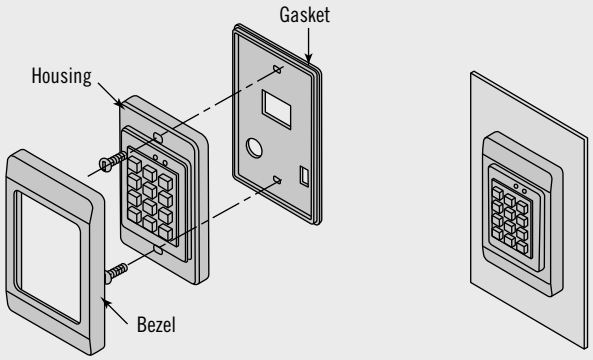

**Additional Features**

Lockout output provides alarm output after multiple failed access attempts, programmable from 1-99 attempts.

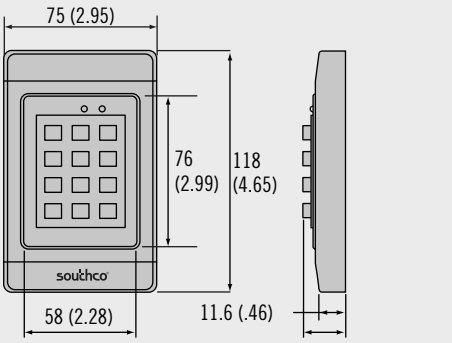
Tamper switch provides output if controller is removed from mounted surface.

Auxiliary input allows for additional remote input signal to open lock for programmed time.

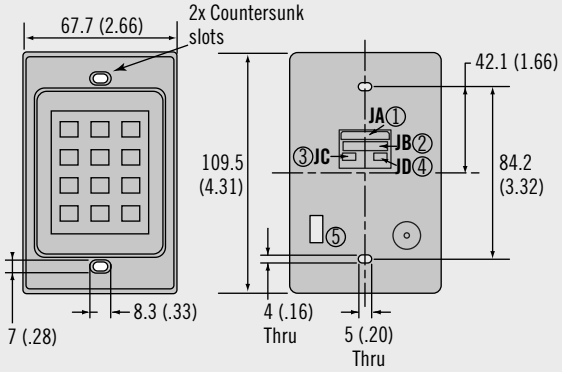
### Mounting




### Bezel Attached




### Without Bezel




### Material & Finish
Polycarbonate and ABS Plastic

### Electrical Specifications
PIN Code Length:
Programmable 1 to 8 digits

Monitoring Inputs: Auxiliary, case tampering

Typical Maximum Read Range: 10cm (depending on installation)

Frequency of Operation: 125kHz (EM), others available upon request

### Modes of Operation:
* Card-only
* PIN or card
* PIN and card
* Bypass

Power: 12 VDC 80mA in standby, 105mA working current (typical)

Operating Temperature: 0-50 °C

Operating Humidity: 20-90% RH, no condensation

### Connectors:
Connector with approximately 160mm (6.3) of wiring, stripped and tinned provided with controller

1. JA Door access connector (blue 9-pin)
2. JB Lockout alarm connector (white 8-pin)
3. JC Tamper switch output connector (blue 3-pin)
4. JD Wiegand reader connector (white 4-pin)
5. Tamper switch

### Connector Details

(Note: Mating connectors with approximately 160mm (6.3) of wiring, stripped and tinned provided with controller).




JA (Blue)
Door access

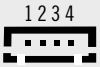
| | | |
|---|---|---|
| 1 (Red) | ← | +12 VDC |
| 2 (Black) | ← | Ground |
| 3 (Brown) | → | NO |
| 4 (Orange) | ← | COM |
| 5 (Yellow) | → | NC |
| 6 (Green) | ← | Auxiliary input |
| 7 (Blue) | ← | X |
| 8 (Purple) | ← | X |
| 9 (Grey) | ← | X |

Relay Output A (Max. 2A / 30 VDC)




JC (Blue)
Tamper switch output

| | | |
|---|---|---|
| J (Blue) | → | NC |
| K (Green) | → | NO |
| L (Yellow) | ← | COM |




JD (White)
External Wiegand Reader

| | | |
|---|---|---|
| 1 (Red) | → | +12VDC |
| 2 (Yellow) | ← | Data1 |
| 3 (Green) | ← | Data0 |
| 4 (Black) | → | Ground |




JB (White)
Lockout alarm output

| | | | |
|---|---|---|---|
| E (Green) | → | Lockout alarm output (NO) | Relay Output B |
| F (Blue) | ← | Lockout alarm output (COM) | (Max. 2A / 30 VDC) |

### Part Number Selection

C Color
1 - White
2 - Cool Gray
0 - Black

L Omit - No Logo
9 - Southco Logo

EA - P1 - 01 C - L

Proximity card: EA - C1 - 011 (contact Clancey for custom color and logo options)

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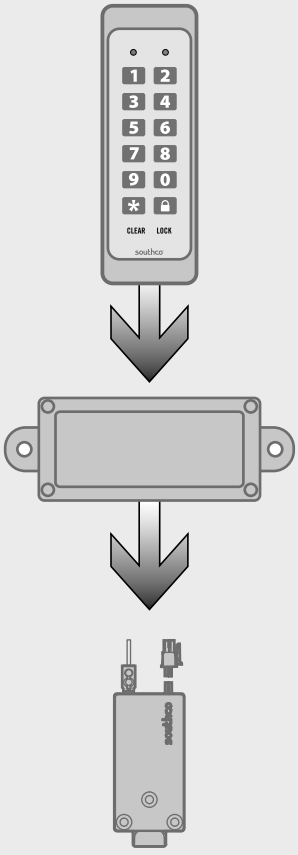
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## EA-KC2 SERIES MEMBRANE KEYPAD ACCESS CONTROLLER



**The Membrane Keypad Access Controller simplifies access management with keyless entry in a self-contained unit. Designed to accommodate industrial equipment needs, the Membrane Keypad is easily customized and can be simply adhered to a door or frame. The remote controller can be mounted anywhere inside a cabinet and provides two outputs for independent control of two separate compartments. Flexible and easy to use, it can be customized to accommodate any look, shape or feel.**

- **Simplified, secure access management.**
- **Attractive, customizable membrane style keypad.**
- **Programmable to accommodate multiple access arrangements.**
- **Direct integration with electronic locks.**
- **Controls up to two compartments independently.**
- **Sleep mode for minimal power draw.**
- **Up to 120 user codes.**
- **LED indicators for keypad status & programming.**



**The Membrane Keypad benefits a variety of industrial applications**



**Self Service**

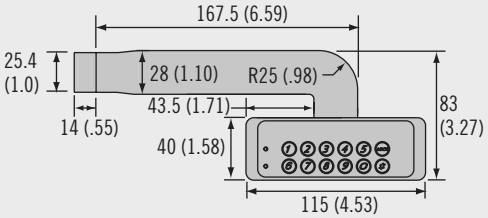


**Medical Storage**

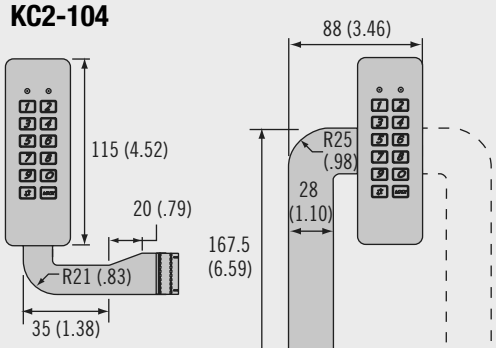


**Server Racks**

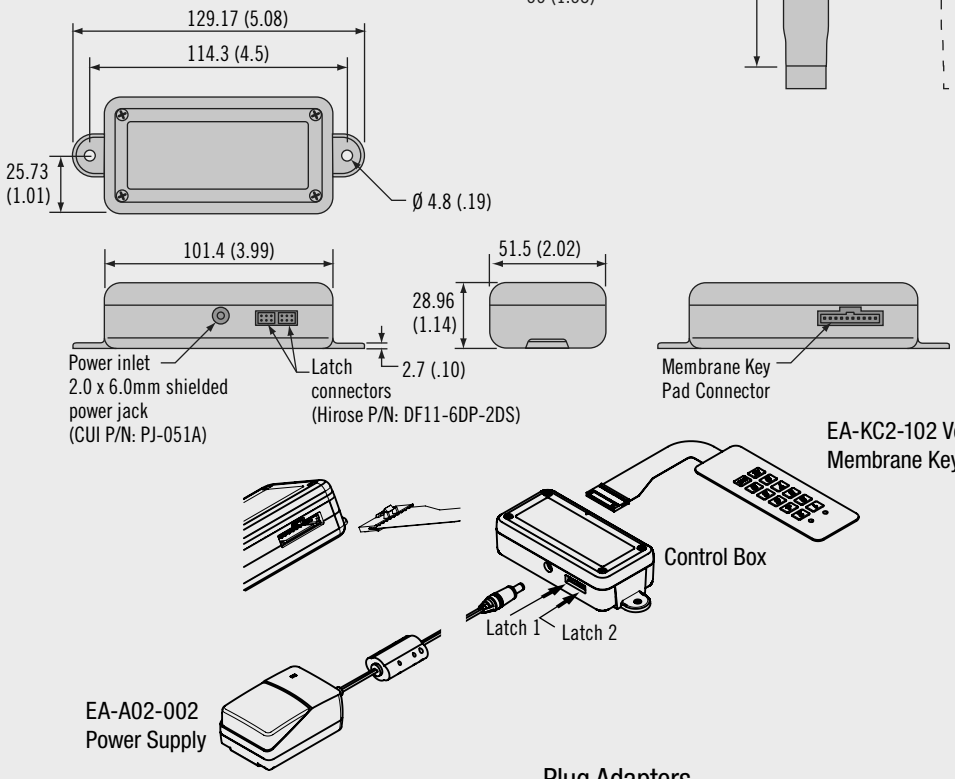
### Horizontal Key Pad
### Part Number EA-KC2-101




### Vertical Key Pad
### Part Number EA-KC2-102, EA-KC2-103 & EA-KC2-104




### Controller Assembly
### Part Number EA-KC2-201




### Material & Finish
Membrane Key Pads with Tactile Keys - Textured Polyester Film with PSA Tape for Mounting on Backside
Controller Housing - ABS
Controller Circuit Board - FR4

### Electrical Specifications
Supply Voltage: 12-24 VDC
Stand By Current: 30µA
Operating Current: 10mA (Typical)
MAX Total Output: 4 Amps (2 Amps per Output)

### How to Order
1. Order one controller EA-KC2-201
2. Order standard Southco membrane EA-KC2-101, EA-KC2-102, EA-KC2-103 & EA-KC2-104. Contact Southco for custom membrane keypad design.
3. Order Southco Power Supply EA-A02-002 and select the appropriate plug adapter if needed.



4. Use latch wire harness options table to select cable to accommodate Southco EML



| LATCH WIRE HARNESS OPTIONS | | |
|---|---|---|
| Part Number | Description | |
| **EA-W01-200*** | 2 Meter Wire Harness Stripped and Tinned |  |
| **EA-W20-201-01*** | 2 Meter Wire Harness to Connect Membrane Controller to Miniature Electronic Keeper (EM-05-XX-XXX)and/or Electronic Rotary Latch (R4-EM-XX-XXX) |  |
| **EA-W01-200-01*** | 2 Meter Wire Harness to Connect Membrane Controller to Electronic Swing Handle(H3-EM-XX-XXX) |  |

*Contact Clancey For Custom Lengths

### Plug Adapters

| PART NUMBER | DESCRIPTION | FUNCTION |
|---|---|---|
| **EA-A02-002**** | Power Supply with NA 2-Pin |  |
| **EA-A02-002 & EA-A02-002-2** | Power Supply with Euro 2-Pin |  |
| **EA-A02-002 & EA-A02-002-3** | Power Supply with UK 3 Pin |  |
| **EA-A02-002 & EA-A02-002-4** | Power supply with SAA 2-Pin |  |

**EA-A02-002-1 NA 2-PIN included with EA-A02-002 Power Supply.

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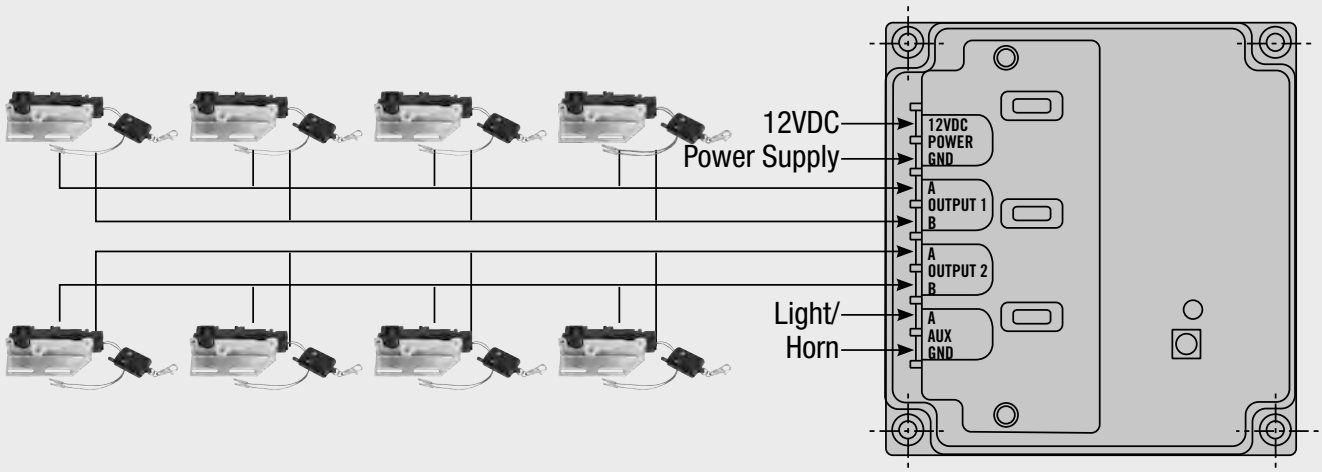
## EA-R01 RF CONTROLLER



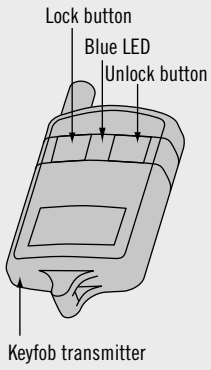
| RF CONTROLLER KIT PART NUMBER: EA-R01 |
|---|
| Includes 1 receiver (EA-R01-201) and 2 transmitters (EA-R01-101) |

**The EA-R01 series RF Controller provides peace of mind security with convenient and timesaving one touch remote locking and unlocking of multiple access points. With sealed electronics, high load capacity and simple installation, the controller is designed specifically for the environmental and storage needs of specialty vehicles, marine craft, recreational vehicles, off highway, and heavy duty trucks.**

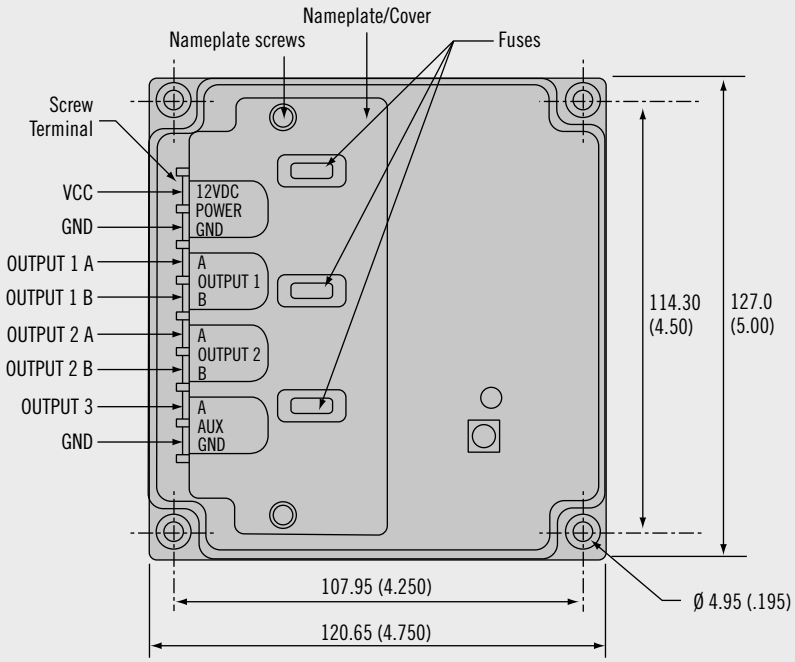
- **Durable, water-proof construction.**
- **Dual sequenced output outputs minimize battery drain.**
- **Fused 30 Amp outputs accommodate multiple latches.**
- **Auxiliary light/horn output for visual/audible lock confirmation.**
- **Labeled connections for easy setup.**
- **Simple transmitter programming.**
- **Integrate with any Southco Electromechanical latch solution.**

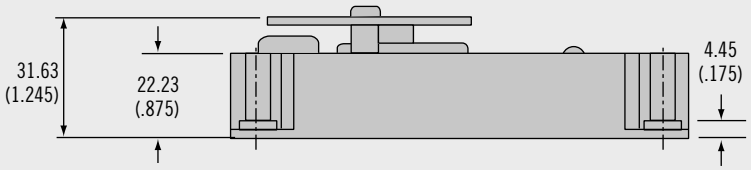


### Transmitter




### Receiver




### Specifications

Receiver Power: 12VDC (± 25%)
Receiver Idle Current: <10mA
Receiver Operating Current: <30A momentary
Receiver Outputs: Output 1 & 2: 30A polarity reversing relays
Aux Output: 30A single pole relay

### Operating Range:

up to 30.4m (100 ft)
Operating Frequency: 340MHz
Coding Type: Fixed Code
Enclosure Rating: IP67

### Transmitter Power:

Type 23 12VDC battery
Receiver output fuses 15A Littelfuse 297 Series Mini® Fast-Acting automotive blade fuse or equivalent.

### Connection Details

All electrical connections are made via screw terminals accessible by removing 2 screws and name plate

### Operation

Shipped with two pre-programmed transmitters

Press transmitter "UNLOCK" button Controller will produce a 12VDC pulse for 200ms on output 1 terminal A, followed by a 300ms pause followed by a 200ms 12VDC pulse on output 2, terminal A

After another 300ms pause, the controller will produce two 400ms pulses separated by a 200ms pause on the auxiliary light/horn output

Press transmitter "LOCK" button Controller will produce a 12VDC pulse for 200ms on output 1 terminal B, followed by a 300ms pause followed by a 200 ms 12VDC pulse on output 2, terminal B

After another 300ms pause, the controller will produce one 400ms pulse on the auxiliary light/horn output

Simple push-button learn feature with LED feedback for enrolling transmitters. Note: EA-R01 shipped with 2 pre-programmed transmitters

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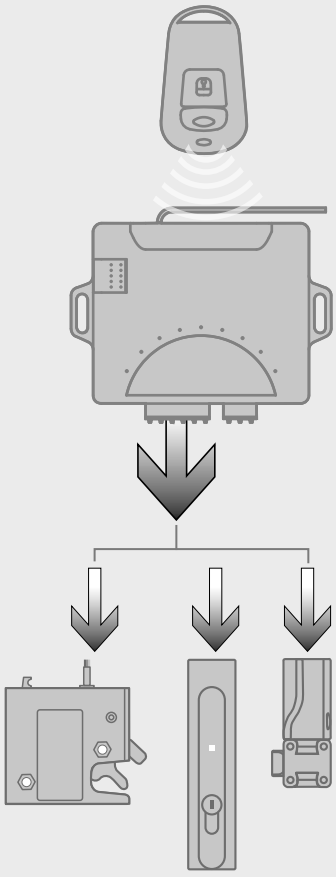
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## EA-R02 RF REMOTE CONTROL SYSTEM

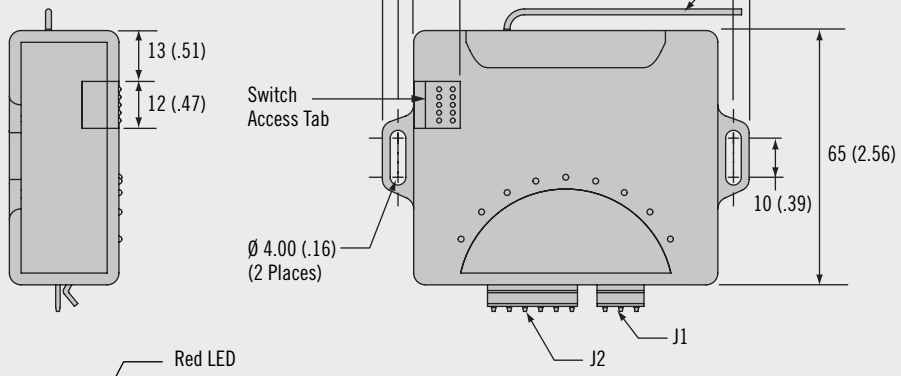



**The new EA-R02 RF Remote Control System enables remote actuation of Southco electronic locks in a basic, economical package. The EA-R02 uses a palm-size radio frequency (RF) transmitter for remote locking and unlocking of electronic locks. The keyless system consists of a receiver, two key fob style transmitters and interconnecting wire harness. The unit provides precious peace of mind with the added security and convenience that mechanical keys cannot deliver. A simple push of a button can wirelessly control multiple locks for convenient remote control. Setup and installation are both quick and easy for a smooth transition from mechanical to electronic access.**

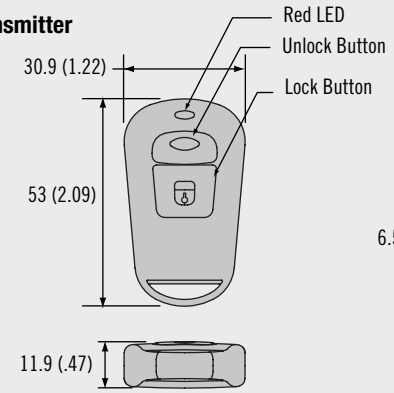
- **Secure, convenient, wireless remote lock actuation.**
- **Quick installation and setup.**
- **Economical and compact package.**
- **Proven 433 MHz radio frequency technology.**
- **Up to 4 transmitters per receiver.**
- **18 meter (60 feet) unobstructed open air operating range.**
- **Auxiliary output for horn/light indicator output.**

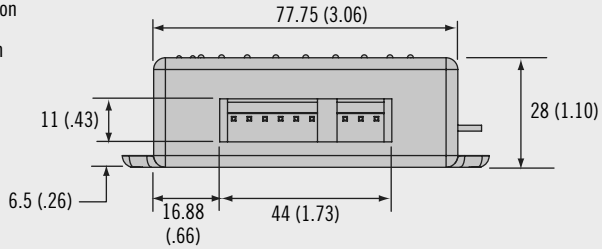


**Receiver**

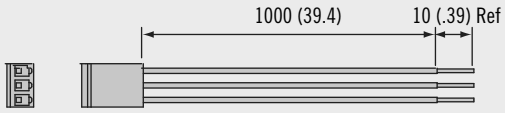



**Transmitter**



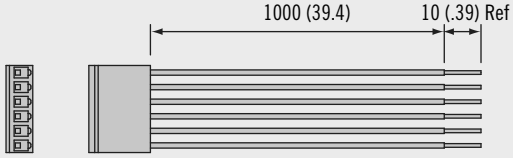




**Power Supply and Auxiliary Output Wire Harness (J1)**




| PIN | WIRE COLOR | DESCRIPTION |
|---|---|---|
| 1 | RED | VCC (+12VDC Power Supply Input) |
| 2 | BLACK | GND (Ground) |
| 3 | YELLOW | Auxiliary Output (Vout = VCC) |

**LOCK & UNLOCK Relay Wire Harness (J2)**




| PIN | WIRE COLOR | DESCRIPTION |
|---|---|---|
| 1 | BLUE/BLACK | LOCK Relay – Normally Closed (typically connect to GND) |
| 2 | BLUE | LOCK Relay – Common (typically connect to latch) |
| 3 | BLUE/RED | LOCK Relay – Normally Open (typically connect to VCC) |
| 4 | GREEN/BLACK | UNLOCK Relay – Normally Closed (typically connect to GND) |
| 5 | GREEN | UNLOCK Relay – Common (typically connect to latch) |
| 6 | GREEN/RED | UNLOCK Relay – Normally Open (typically connect to VCC) |

## Material & Finish
ABS Plastic

## Electrical Specifications
Receiver Power: 12VDC (±10%)

Receiver Standby Current: 10mA MAX, No Attached Devices

Receiver Operating Current: 100mA MAX, No Attached Devices

Receiver Outputs: Three Form C Relays, Rated 15A at 14VDC

Receiver Lock/Unlock Output Pulse Duration: 250ms or 10 sec (Selectable)

Receiver Operating Temperature: -20 to 80 0C

## Operation
Operating Range: Up to 60 Feet / 18 Meters (Open Air)

Operating Frequency: 433.92MHz

Coding Type: Fixed Code (24-Bit)

Transmitter Power: Type CR2016 3VDC Battery
(Qty 2 per transmitter)

Switch Access Tab
Switch 1 - Used to enroll transmitters
Switch 2 - Used to set LOCK and UNLOCK pulse duration

CE

## Note:
Individual components can be ordered separately. Contact Clancey for information.

| RF REMOTE CONTROL SYSTEM PART NUMBER: EA-R02 |
|---|
| Includes 1 Receiver, 2 Keyfobs,<br>1 Pair Power/Auxiliary and Lock/Unlock Relay Connector Wire Harnesses and Operating Instructions |

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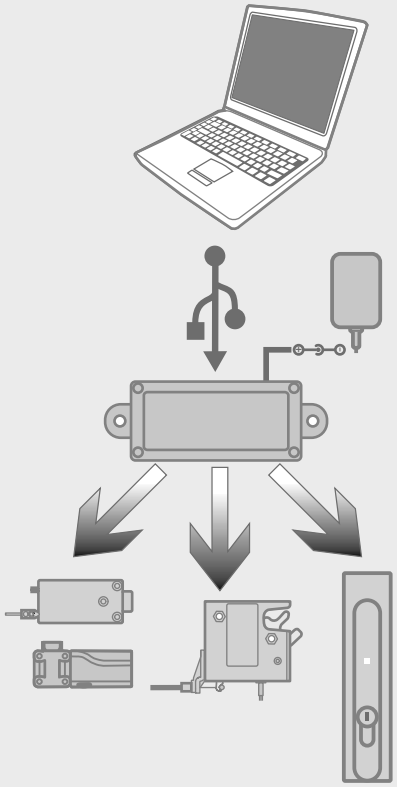
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## EA-A06 USB CONTROLLER




**The USB Controller allows for the independent control of up to 14 different electrical devices from an existing computer. With a set of simple software commands, control and monitor connected devices via USB port. Output signals from connected locks can be captured for audit trail reporting.**

- **Allows computer controlled electro-mechanical latch operation via USB port.**
- **14 Independent latch inputs / outputs.**
- **Simple programming commands / easy program interface.**
- **Integrate with any Southco electro-mechanical latch solution.**
- **Plug and Play.**
- **Labeled connections for easy set up.**



**The USB Controller benefits a variety of industrial applications**



**Medical**



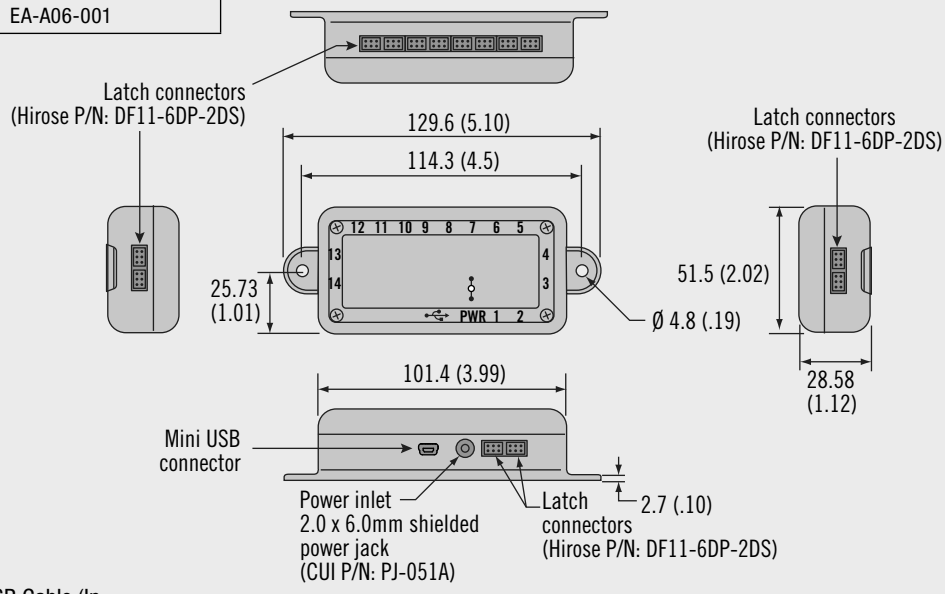

**Self Service**



**Server Access**

## Controller Assembly

| PART NUMBER |
|---|
| EA-A06-001 |




1 Meter USB Cable (Included)



EA-A02-002
Power Supply



### Material & Finish
Controller Housing – ABS
(UL94-5VA Flammability Rating)

### Electrical Specifications
Operating Voltage: 12-24 VDC
Do Not Exceed Max Latch Voltage
Max Output Per Latch: 2 Amps

### How to Order
1. Order one Controller with USB Cable: EA-A06-001
2. Order Power Supply EA-A02-002 and select the appropriate plug adapter if needed



3. Use latch wire harness options table to select cable to accommodate electromechanical latches



| WIRE HARNESS OPTIONS | | |
|---|---|---|
| Part Number | Length | Connects to |
| **EA-W01-200*** | 2 Meters | Stripped and Tinned |
| **EA-W20-201-01*** | 2 Meters |  |
| **EA-W20-201-01*** | 2 Meters |  |
| **EA-W01-200-01*** | 2 Meters |  |
| **EA-W02-203-01*** | 2 Meters |  |

*Contact Clancey For Custom Lengths

### Plug Adapters

| PART NUMBER | DESCRIPTION | FUNCTION |
|---|---|---|
| **EA-A02-002**** | Power Supply with NA 2-Pin |  |
| **EA-A02-002 & EA-A02-002-2** | Power Supply with Euro 2-Pin |  |
| **EA-A02-002 & EA-A02-002-3** | Power Supply with UK 3 Pin |  |
| **EA-A02-002 & EA-A02-002-4** | Power supply with SAA 2-Pin |  |

**EA-A02-002-1 NA 2-PIN included with EA-A02-002 Power Supply.

# MONITOR MOUNT
## TILT MOUNT

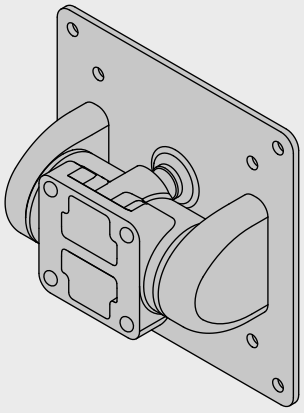
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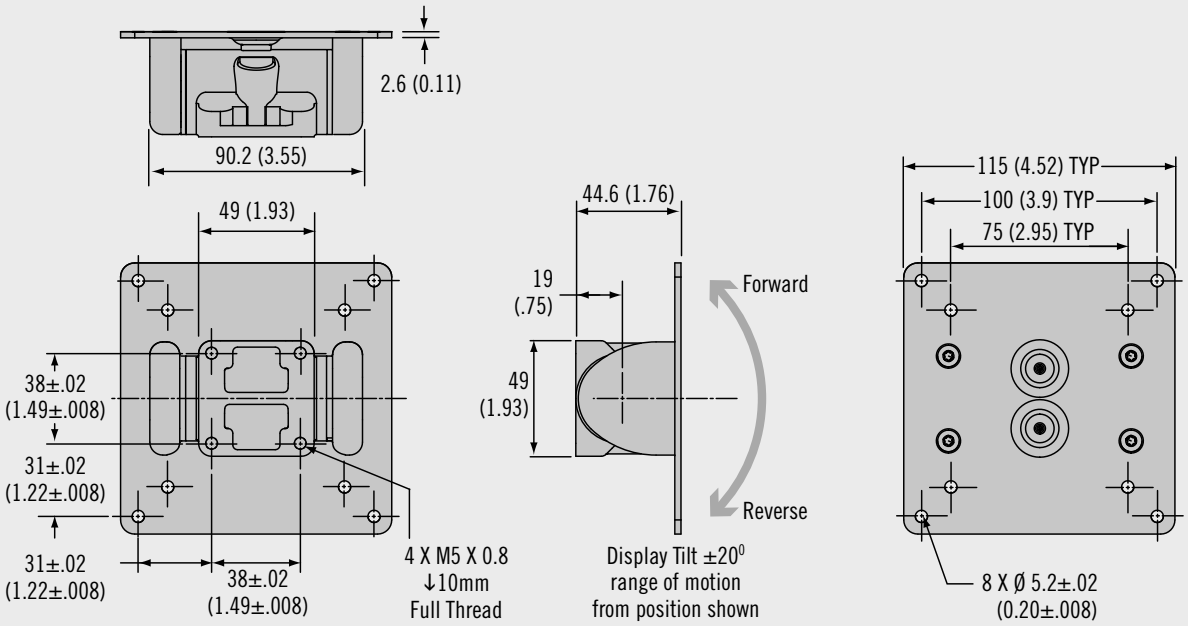
### AV SERIES DYNAMIC MOUNT TILT



- **Intuitive grab and move operation enhances the user experience.**
- **No knobs or tools required to reposition the display.**
- **Precise control of operating effort ensures ideal "feel."**
- **Holds securely, even in applications with dynamic loading.**
- **Consistent repeatable operation.**
- **Fully enclosed for optimum cleanability.**



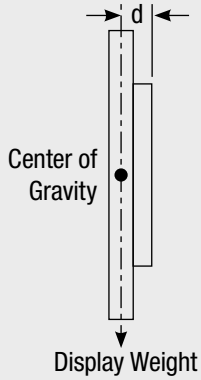
**Product Detail**



## Specification and Selection

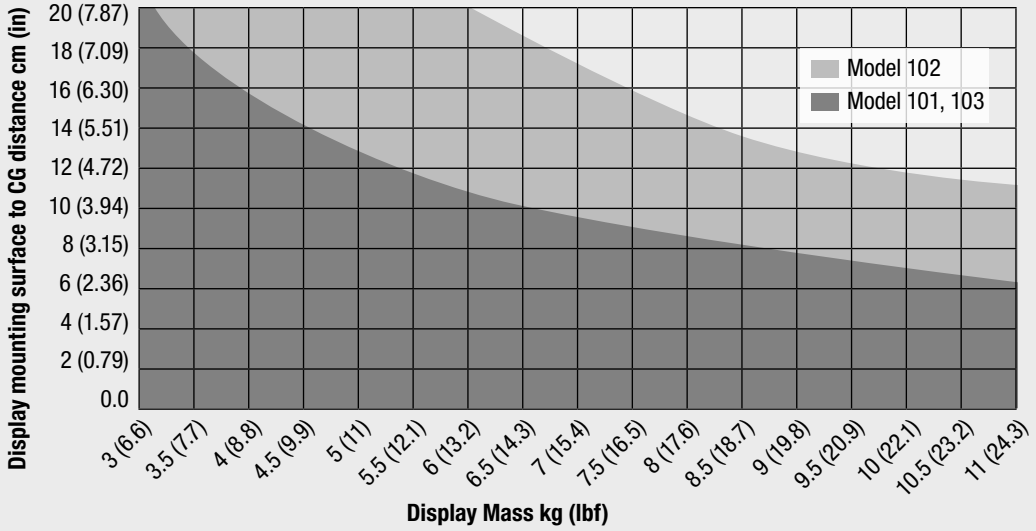
Step 1

Determine display weight and distance (d) from mounting surface to center of gravity.




Step 2

Use chart below to select model (101, 102 or 103).




Step 3

Complete part number by selecting model and color options below.

| MODEL S | TILT TORQUE N•M (IN LBF) | |
|---|---|---|
| | REVERSE | FORWARD |
| 101 | 7.9 (70) | 2.2 (19.5) |
| 102 | 15.4 (136) | 2.26 (20) |
| 103 | 8.6 (76) | 6 (53) |

AV - D30 - 5T [S] - [F]

| F | COLOR |
|---|---|
| 50 | Black |
| 76 | White |

For complete installation and operation instructions please consult the product manual included in every package.

### Material and Finish

Aluminum alloy, powder coated

### Performance Details

Cycle performance: 20,000 cycles within ± 20% of static torque specification

Max. dynamic working load:
Model 101 and 103: 70N (15.7lbf)
Model 102: 100N (22.5lbf)
Average ultimate load: 1845N (414.8lbf)

### Part Number

See table

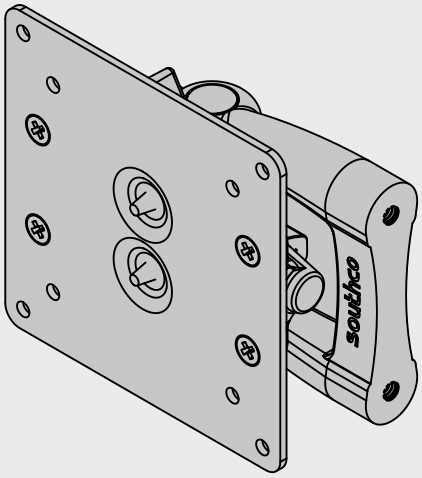
### Part Number Example

AV-D30-5T101-50 = Dynamic tilt mount, Model 101, black

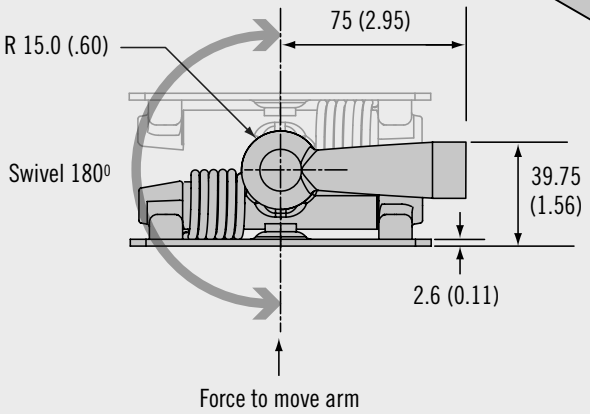
### AV SERIES DYNAMIC MOUNT TILT & SWIVEL

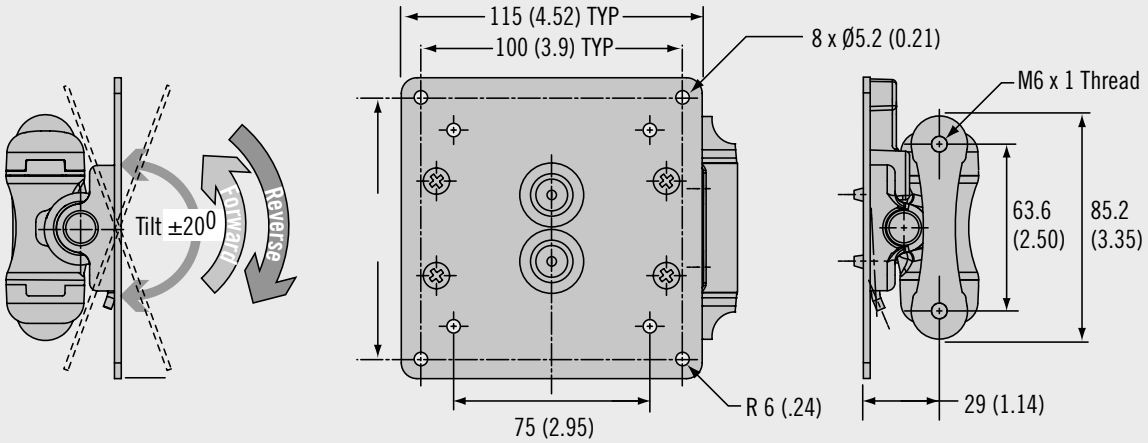


- **Intuitive grab and move operation enhances the user experience.**
- **No knobs or tools required to reposition the display.**
- **Precise control of operating effort ensures ideal "feel" and eliminates "drift."**
- **Holds securely, even in applications with dynamic loading.**
- **Consistent repeatable operation.**
- **Factory assembled and ready for use.**




**Product Detail**

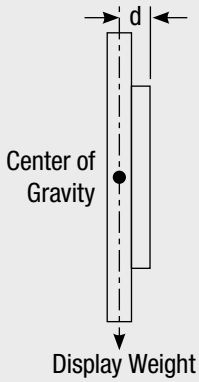


## Specification and Selection

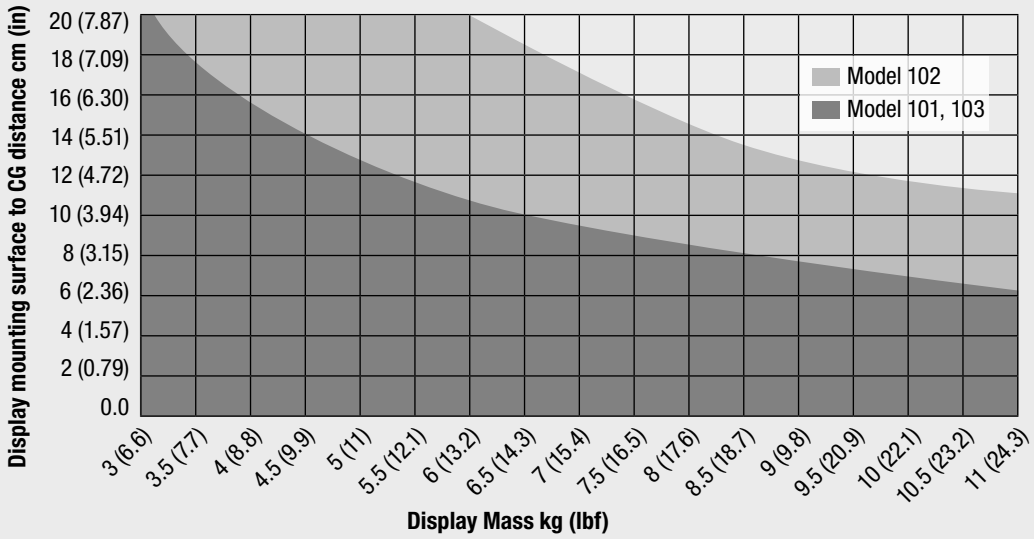
Step 1

Determine display weight and distance (d) from mounting surface to center of gravity.




Step 2

Use chart below to select model (101, 102 or 103).




Step 3

Complete part number by selecting model and color options below.

| MODEL S | TILT TORQUE N•M (IN LBF) | | SWIVEL TORQUE |
|---|---|---|---|
| | REVERSE | FORWARD | |
| 101 | 7.9 (70) | 1.13 (10) | 2.3 (20) |
| 102 | 15.4 (136) | 2.26 (20) | 3.4 (30) |
| 103 | 8.6 (76) | 6 (53) | 3.4 (30) |

AV - D30 - 7K [S] - [F]

| F | COLOR |
|---|---|
| 50 | Black |
| 76 | White |

### Material and Finish

Aluminum alloy, powder coated

### Performance Details

Cycle performance: 20,000 cycles within ± 20% of static torque specification

Max. dynamic working load:
Model 101 and 103: 66N (15 lbf)
Model 102: 98N (22 lbf)
Average ultimate load: 178 N (450 lbf)

### Part Number

See table

### Part Number Example

AV-D30-7K101-50 = Dynamic mounting arm, Model 101, black

CAD POWERED

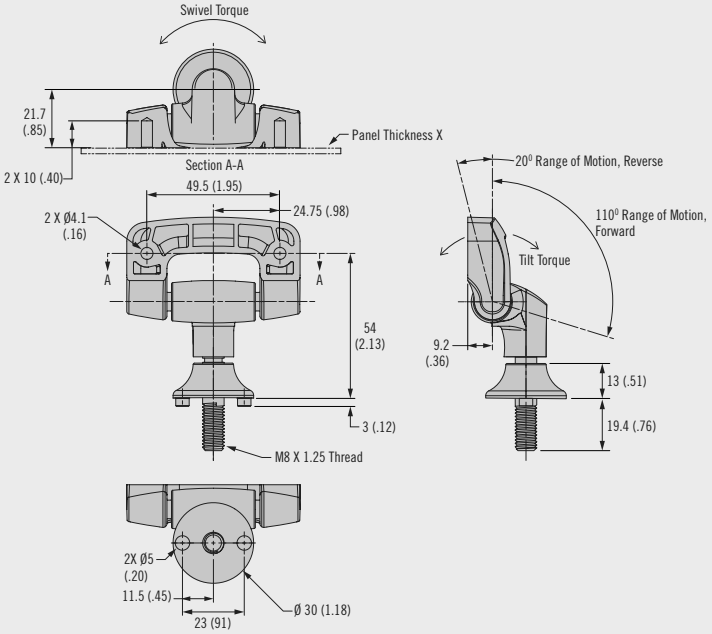
southco® AUTHORIZED DISTRIBUTOR

## AV SERIES DYNAMIC MOUNT TILT & SWIVEL COMPACT

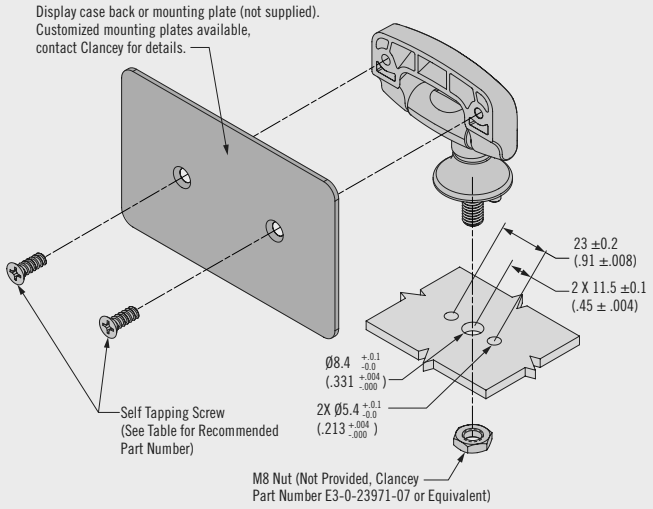


- **Intuitive grab and move operation enhances the user experience.**
- **No knobs or tools required to reposition the display.**
- **Consistent repeatable operation.**
- **Factory assembled and ready for use.**
- **Smooth operation enhances the user experience.**
- **Adjust the display without knobs or tools.**
- **Holds securely in every position.**

### Product Detail




### Installation




### Installation Notes

1. Determine desired mounting location
2. Attach using M8 nut (not supplied) as shown

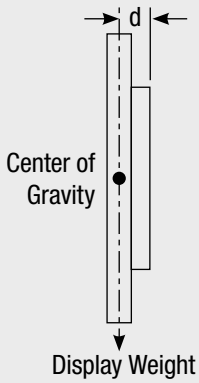
Caution: Because of the wide variety of panel materials, it is the installer's responsibility to ensure that the materials and structure to which the product is mounted and the hardware selected will provide adequate support.

3. Attach display mounting bracket using recommended self-tapping screws or equivalent

## Specification and Selection

Step 1

Determine display weight and distance (d) from mounting surface to center of gravity.




Step 2

Use chart below to confirm suitable display weight. For weights outside the shaded area, consider Southco AV-D30 series display mounts.

### Material and Finish

Glass-Filled Nylon, Black; Stainless Steel

### Performance Details

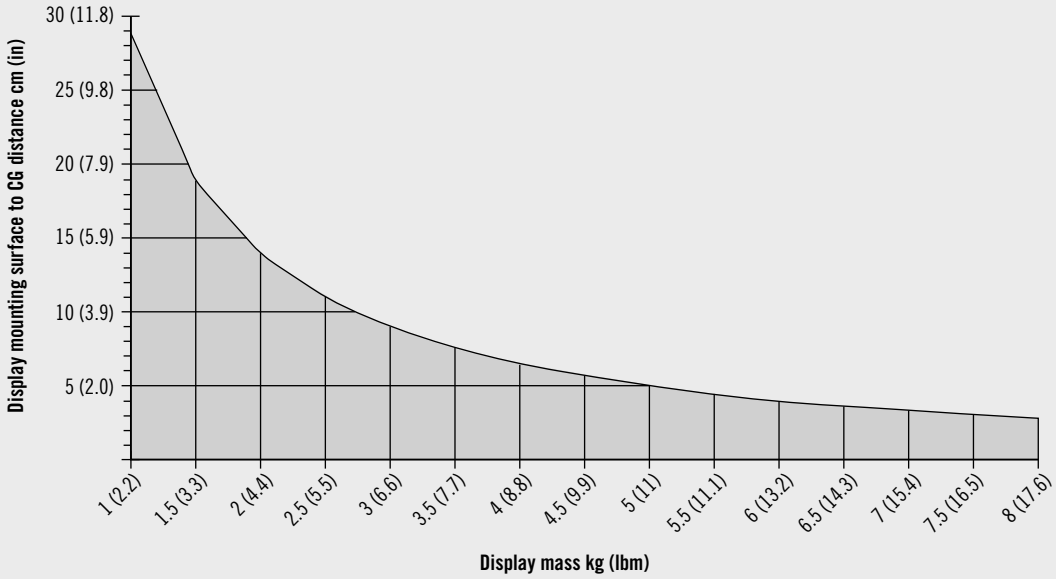
Cycle performance

20,000 Cycles within +/- 20% of static torque specification

Max dynamic working load: 100N (22.5lbf)

Average ultimate load: 1000N (225lbf)

AV-C20 Series - Capacity vs. Cg Distance




Step 3

Select part number and recommended display mounting hardware below:

| PART NUMBERS | TILT TORQUEN-M (IN-LBF) | SWIVEL TORQUEN-M (IN-LBF) |
|---|---|---|
| AV-C20-K101-20 | 2.26 (20.0) | 3.62 (32.0) |

Recommended display mounting hardware:

| PANEL THICK-NESS, X (MM) | PAN-HEAD SCREW(P/N) | FLAT-HEAD SCREW(P/N) |
|---|---|---|
| 1-4 | 96-79-1 | 96-79-11 |
| 4-7 | 96-79-2 | 96-79-12 |

CAD POWERED

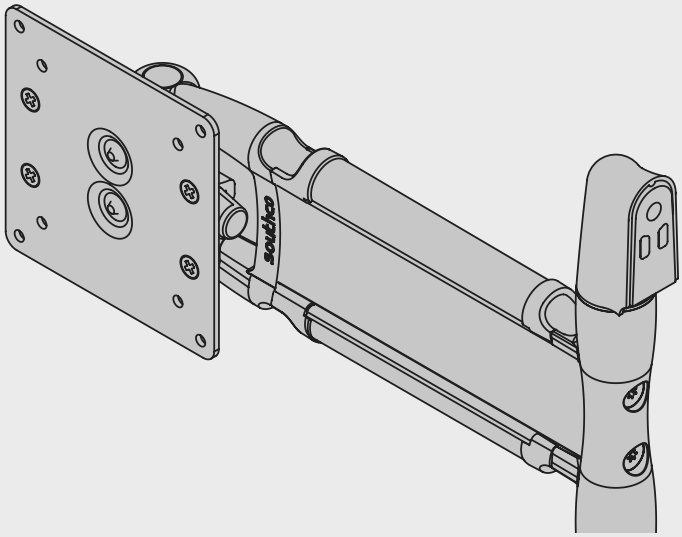
southco® AUTHORIZED DISTRIBUTOR

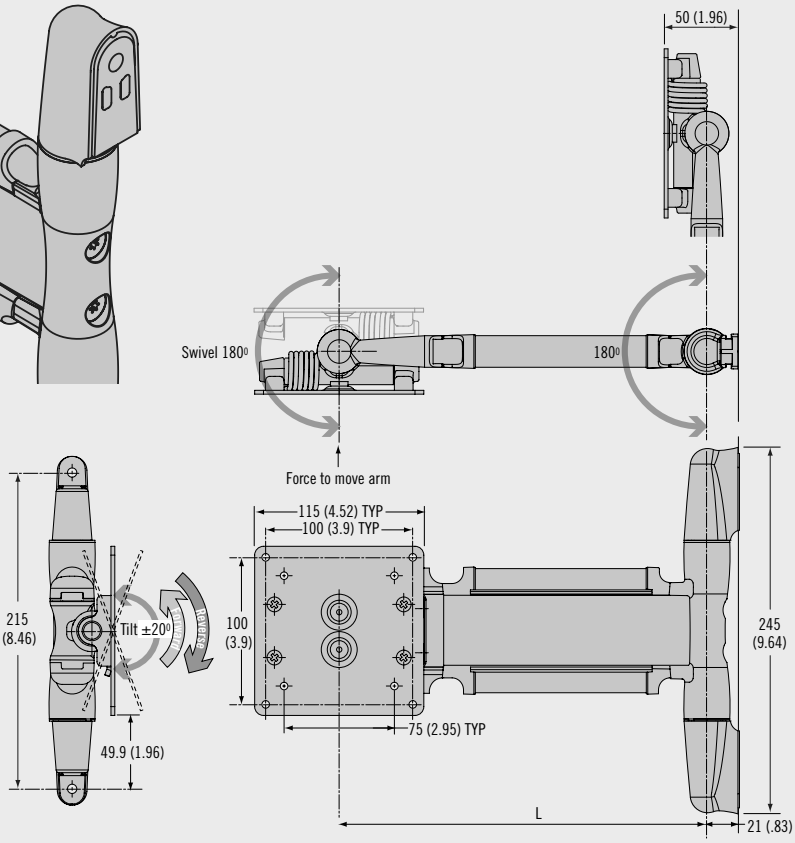
### AV SERIES DYNAMIC MOUNTING ARM
### TILT, SWIVEL, & SWING



- **Intuitive grab and move operation enhances the user experience.**
- **No knobs or tools required to reposition the display.**
- **Precise control of operating effort ensures ideal "feel" and eliminates "drift."**
- **Holds securely, even in applications with dynamic loading.**
- **Low profile in the stowed position.**
- **Folds to within 50 mm of the wall.**
- **Snap-open channels simplify wire management .**
- **Easy display installation and replacement.**
- **Factory assembled and ready for use.**

**Product Detail**

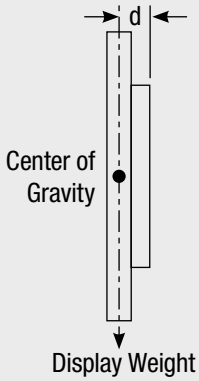




### Specification and Selection

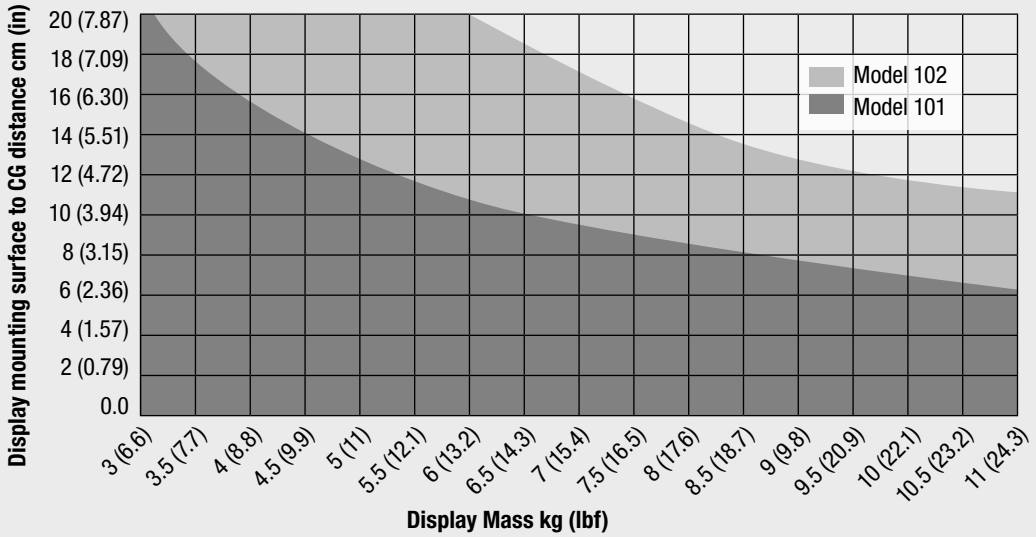
Step 1

Determine display weight and distance (d) from mounting surface to center of gravity.




Step 2

Use chart below to select model (101 or 102).




Step 3

Complete part number by selecting length and color options below.

| K | LENGTH (L) | AVERAGE ULTIMATE LOAD |
|---|---|---|
| 15 | 150 (5.9) | 2000 (450) |
| 25 | 250 (9.8) | 1200 (270) |
| 35 | 350 (13.8) | 850 (190) |
| 45 | 450 (17.7) | 660 (150) |

| MODEL S | FORCE TO MOVE ARM N (LB) | TILT TORQUE N•M (IN LBF) REVERSE | TILT TORQUE N•M (IN LBF) FORWARD | SWIVEL TORQUE |
|---|---|---|---|---|
| 101 | 22.2 (5) | 7.9 (70) | 1.13 (10) | 2.3 (20) |
| 102 | 33.8 (7.6) | 15.4 (136) | 2.26 (20) | 3.4 (30) |

| F | COLOR |
|---|---|
| 50 | Black |
| 76 | White |

AV- D30- K A S - F

### Material and Finish

Aluminum alloy, powder coated

### Performance Details

Cycle performance: 20,000 cycles within ± 20% of static torque specification

Max. dynamic working load:
Model 101: 66N (15 lbf)
Model 102: 98N (22 lbf)
Average ultimate load: See table

### Part Number

See table

### Part Number Example

AV-D30-25A101-50 = Dynamic mounting arm, Model 101, 250mm Length, black

CAD POWERED

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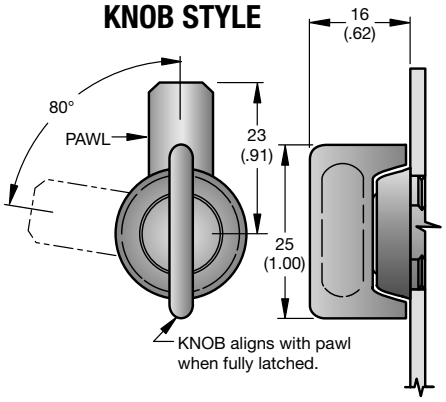
## VISE ACTION™ SERIES SMALL SIZE

NEMA 4

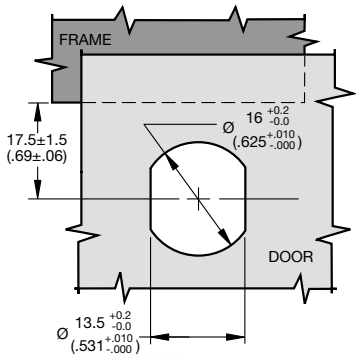
- **Compact size.**
- **Single hole mount.**
- **4 mm (.170") compression "pull-up".**
- **Adjustable grip.**
- **Suitable for NEMA 4 with gasket accessory.**



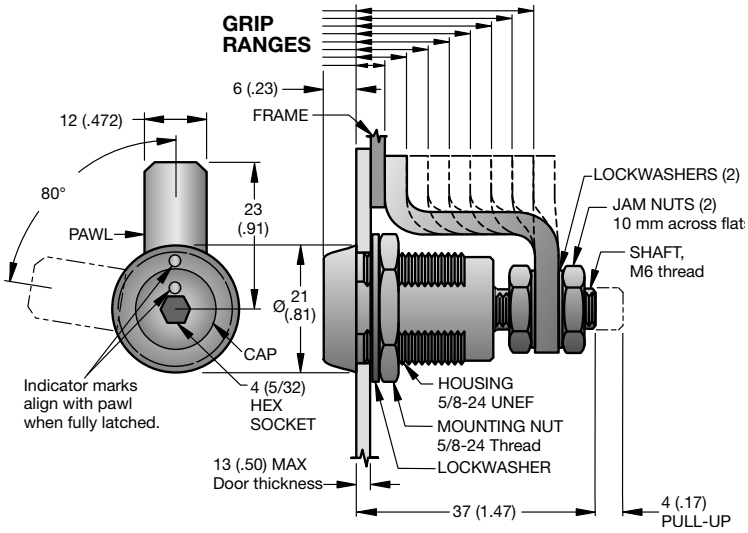
### KNOB STYLE




### PANEL PREPARATION




### TOOL OPERATED, SLOTTED RECESS, AND KEY OPERATED STYLES



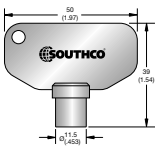

| GRIP RANGE | | HEAD STYLES | | | |
|---|---|---|---|---|---|
| | | SLOTTED RECESS | TOOL OPERATED | KNOB | KEY OPERATED |
| MIN. | MAX. | PART NUMBERS, BLACK FINISH | | | |
| 3.2 (.125) | 6.4 (.250) | E3-59-15 | E3-56-15 | E3-57-15 | E3-55-15 |
| 6.4 (.250) | 9.5 (.375) | E3-59-25 | E3-56-25 | E3-57-25 | E3-55-25 |
| 9.5 (.375) | 12.7 (.500) | E3-59-35 | E3-56-35 | E3-57-35 | E3-55-35 |
| 12.7 (.500) | 15.9 (.625) | E3-59-45 | E3-56-45 | E3-57-45 | E3-55-45 |
| 15.9 (.625) | 19 (.750) | E3-59-55 | E3-56-55 | E3-57-55 | E3-55-55 |
| 19 (.750) | 22.2 (.875) | E3-59-65 | E3-56-65 | E3-57-65 | E3-55-65 |
| 22.2 (.875) | 25.4 (1.00) | E3-59-75 | E3-56-75 | E3-57-75 | E3-55-75 |
| 25.4 (1.00) | 28.6 (1.125) | E3-59-85 | E3-56-85 | E3-57-85 | E3-55-85 |

**For detailed material specifications and product strength guidelines.**

**www.clancey.com**

### ACCESSORIES (ORDER SEPARATELY)

**KEY**



**E3-26-819-15**

**PULL**



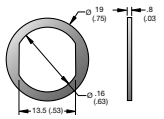
**E3-27-61**
**(in line w/pawl)**
**E3-27-62**
**(perpendicular w/pawl)**

**SEALING COVER**



**90-1**

**GASKET**

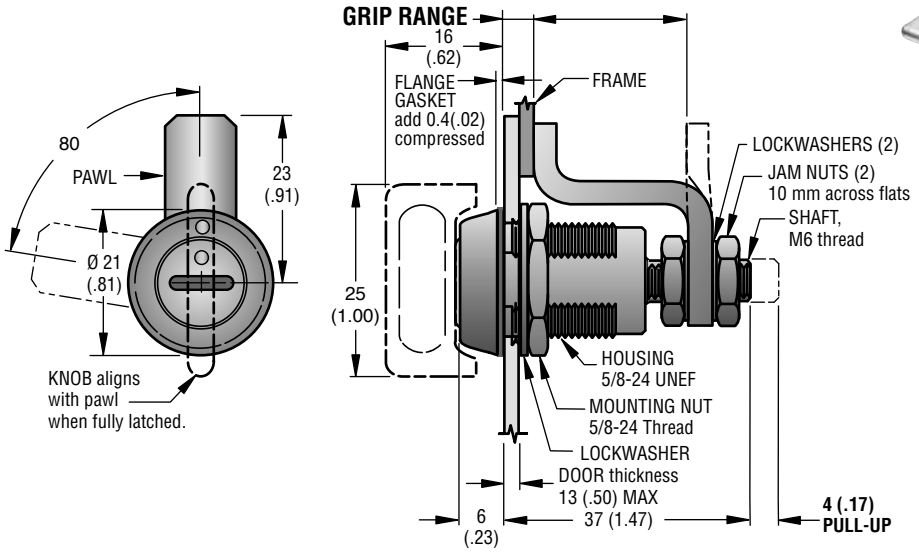


**E3-0-30268-02**

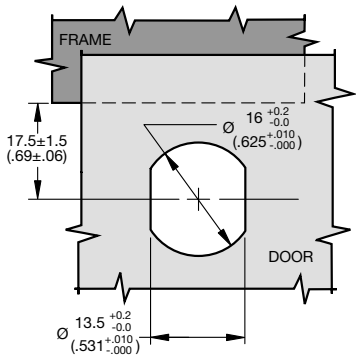
- **Compact size.**
- **Single hole mount.**
- **4 mm (.170") compression "pull-up".**
- **Adjustable grip.**
- **Suitable for NEMA 4 applications.**

## STAINLESS STEEL VISE ACTION™ SERIES SMALL SIZE




### PANEL PREPARATION




| GRIP RANGE | | HEAD STYLES | | | |
|---|---|---|---|---|---|
| | | | | | |
| MIN. | MAX. | KNOB STYLE | KEY OPERATED | TOOL OPERATED | SLOTTED RECESS |
| | | PART NUMBERS, STAINLESS STEEL, ELECTRO POLISHED FINISH | | | |
| 3.2 (.125) | 6.4 (.250) | E3-57-12 | E3-55-12 | E3-56-12 | E3-59-12 |
| 6.4 (.250) | 9.5 (.375) | E3-57-22 | E3-55-22 | E3-56-22 | E3-59-22 |
| 9.5 (.375) | 12.7 (.500) | E3-57-32 | E3-55-32 | E3-56-32 | E3-59-32 |
| 12.7 (.500) | 15.9 (.625) | E3-57-42 | E3-55-42 | E3-56-42 | E3-59-42 |
| 15.9 (.625) | 19 (.750) | E3-57-52 | E3-55-52 | E3-56-52 | E3-59-52 |
| 19 (.750) | 22.2 (.875) | E3-57-62 | E3-55-62 | E3-56-62 | E3-59-62 |
| 22.2 (.875) | 25.4 (1.00) | E3-57-72 | E3-55-72 | E3-56-72 | E3-59-72 |
| 25.4 (1.00) | 28.6 (1.125) | E3-57-82 | E3-55-82 | E3-56-82 | E3-59-82 |

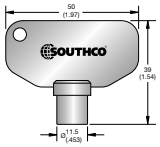
**For detailed material specifications and product strength guidelines.**

**www.clancey.com**

**NOTE: Sealing flange gasket is included.**

## ACCESSORIES (ORDER SEPARATELY)

**KEY**




**E3-26-819-15**

**PULL**

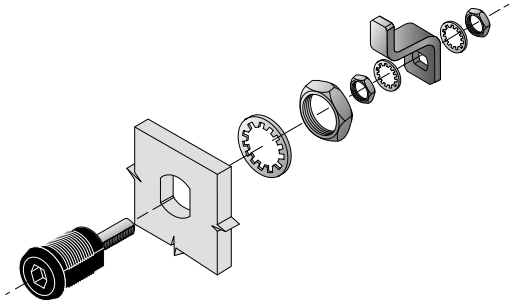


**E3-27-61**
**(in line w/pawl)**
**E3-27-62**
**(perpendicular w/pawl)**

**SEALING COVER**



**90-1**

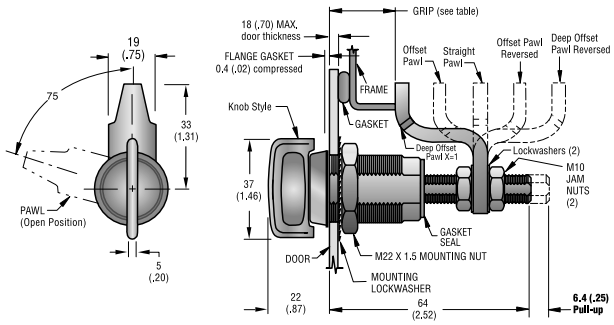


## STAINLESS STEEL VISE ACTION™ LARGE SIZE KNOB, ADJUSTABLE GRIP

NEMA 4 · STAINLESS · CLEAN from CLANCEY



- Stainless steel design.
- Single hole mount.
- Internally and externally sealed.
- Adjustable grip.
- 6.4 mm (.250") compression “pull-up”.
- Suitable for NEMA 4 applications.



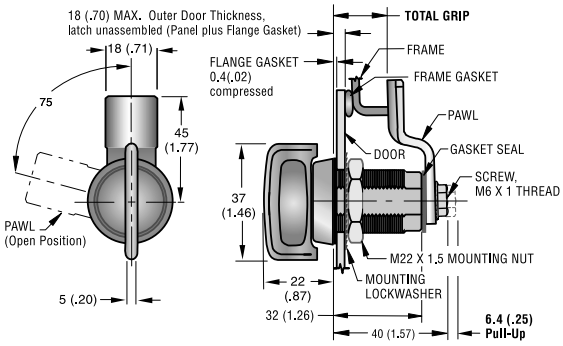

| GRIP RANGE (Adjustable Grip) | | PART NUMBER |
|---|---|---|
| MIN. | MAX. | |
| 11.4 (.45) | 27.2 (1.07) | E3-17-112 |
| 25.4 (1.00) | 41.1 (1.62) | E3-17-212 |
| 38.9 (1.53) | 54.6 (2.15) | E3-17-312 |
| REVERSED PAWL | | |
| 52.6 (68.3) | 68.3 (2.69) | E3-17-212 |
| 66.3 (2.61) | 76.2 (3.00) | E3-17-112 |

## STAINLESS STEEL VISE ACTION™ LARGE SIZE KNOB, FIXED GRIP

NEMA 4 · STAINLESS · CLEAN from CLANCEY

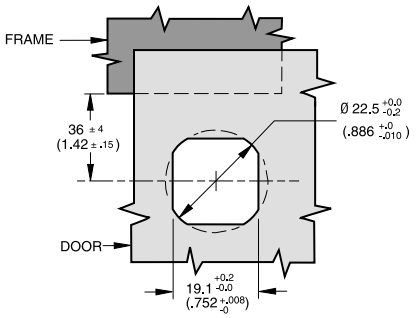


- Fixed grip allows for quick installation.




| PART NUMBER | TOTAL GRIP | PART NUMBER | TOTAL GRIP | PART NUMBER | TOTAL GRIP | PART NUMBER | TOTAL GRIP |
|---|---|---|---|---|---|---|---|
| E3-127-0012 | 15 (0.39") | E3-127-0512 | 25 (0.98") | E3-127-1012 | 35 (1.38") | E3-127-1512 | 45 (1.77") |
| E3-127-0112 | 17 (0.67") | E3-127-0612 | 27 (1.06") | E3-127-1112 | 37 (1.46") | E3-127-1612 | 47 (1.85") |
| E3-127-0212 | 19 (0.75") | E3-127-0712 | 29 (1.14") | E3-127-1212 | 39 (1.53") | E3-127-1712 | 49 (1.93") |
| E3-127-0312 | 21 (0.83") | E3-127-0812 | 31 (1.22") | E3-127-1312 | 41 (1.61") | E3-127-1812 | 51 (2.01") |
| E3-127-0412 | 23 (0.91") | E3-127-0912 | 33 (1.30") | E3-127-1412 | 43 (1.69") | E3-127-1912 | 53 (2.09") |

### PANEL PREPARATION (both models)




**Note:** Pre-assembly available. Call for details.

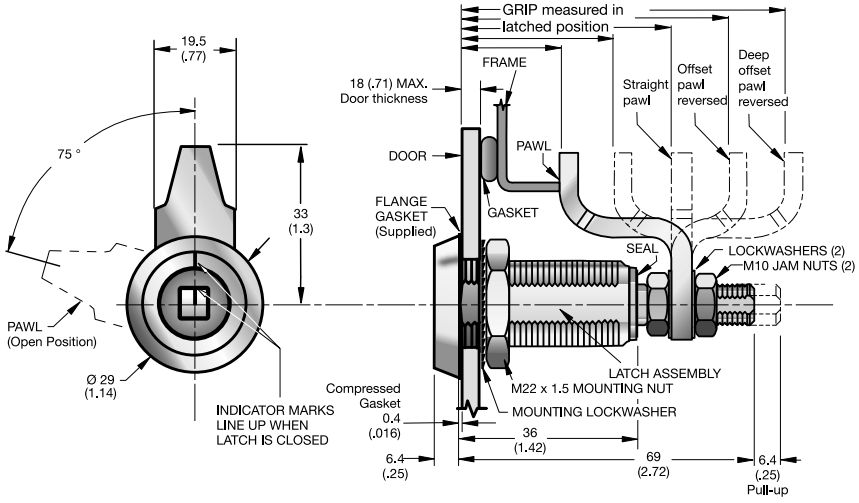
For detailed material specifications and product strength guidelines
**www.clancey.com**

- **Stainless steel design.**
- **Single hole mount.**
- **Internally and externally sealed.**
- **Adjustable grip.**
- **6.4 mm (.250") compression "pull-up".**
- **Suitable for NEMA 4 applications.**

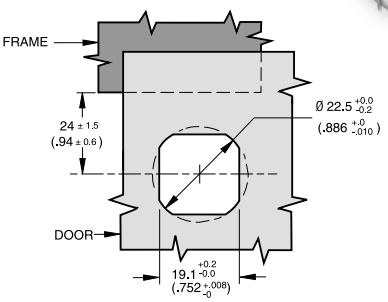
## STAINLESS STEEL VISE ACTION™ LARGE SIZE, FLUSH HEAD STYLES






### PANEL PREPARATION

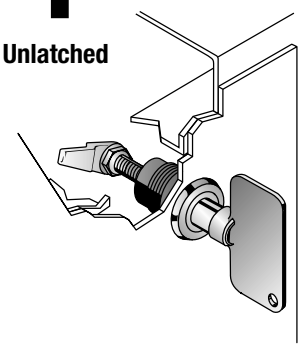



| GRIP RANGE | | PART NUMBERS - HEAD STYLES | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Slotted Recess | 8 mm Hex Recess | Southco® Tubular Key | Railway Standard | Bellcore 216 | 7 mm Triangle | 3 mm Double Bitted |
| MINIMUM | MAXIMUM | | | | | | | |
| 16.4 (.65") | 32.2 (1.27") | E3-19-10 | E3-16-10 | E3-15-10 | E3-111-10 | E3-115-10 | E3-13-10 | E3-12-10 |
| 30.4 (1.20") | 46.1 (1.81") | E3-19-20 | E3-16-20 | E3-15-20 | E3-111-20 | E3-115-20 | E3-13-20 | E3-12-20 |
| 43.9 (1.73") | 59.6 (2.35") | E3-19-30 | E3-16-30 | E3-15-30 | E3-111-30 | E3-115-30 | E3-13-30 | E3-12-30 |
| 57.6 (2.27") | 73.3 (2.89") | E3-19-20 | E3-16-20 | E3-15-20 | E3-111-20 | E3-115-20 | E3-13-20 | E3-12-20 |
| 71.3 (2.81") | 81.2 (3.20") | E3-19-10 | E3-16-10 | E3-15-10 | E3-111-10 | E3-115-10 | E3-13-10 | E3-12-10 |
| KEY PART NUMBER (ORDER SEPARATELY) | | ---- | 8mm Hex Wrench | E3-5-15 | RIC Standard (European Railway) | E3-12-1 | E3-3-1 | E3-2-1 |

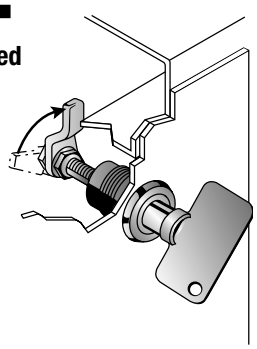
* (Minimal protrusion) mounting is available, please call.

**Operation**

**1** **Unlatched**

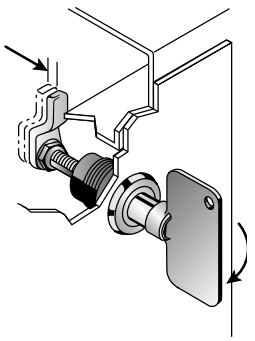


**2** **Latched**



Quarter-turn to latch

**3** **Compressed**



Another quarter-turn to compress 6.4 mm (.25)

**Note: This product can be used with large size accessories found on page 43.**

## VISE ACTION™ SERIES, LARGE SIZE

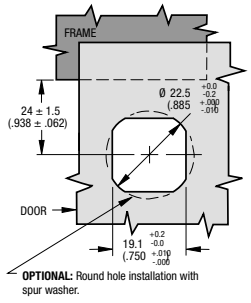
- **Single hole mount.**
- **Internally gasketed.**
- **Adjustable to fit a wide grip range.**
- **Suitable for NEMA 4 applications with use of gasket accessory.**

NEMA 4

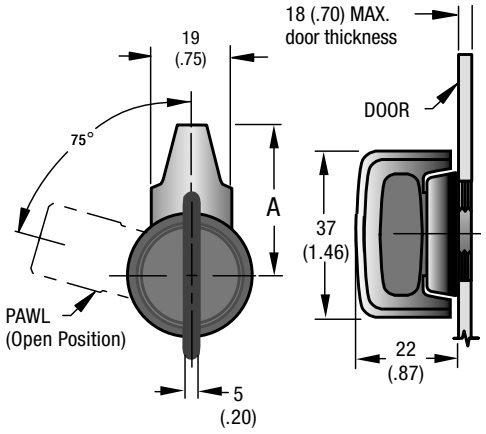
MULTI-POINT LATCHING



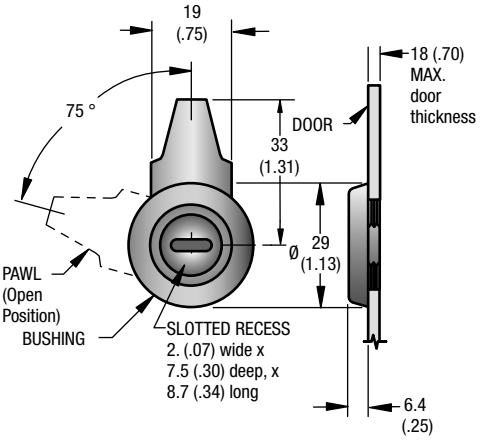
### PANEL PREPARATION




### KNOB STYLE

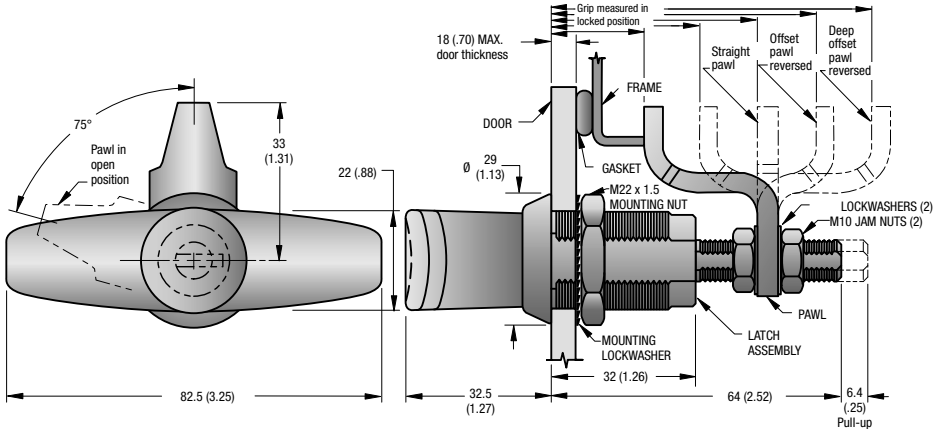



### LOW PROFILE HEAD STYLES (slotted recess shown)




**For detailed material specifications and product strength guidelines.**

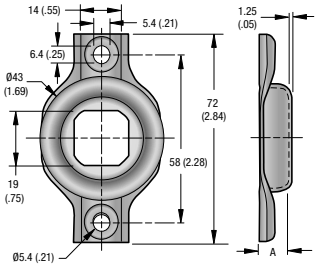
**www.clancey.com**



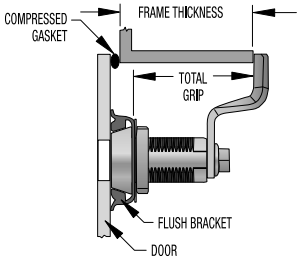

## FIXED BRACKET FOR FLUSH MOUNT

- **Creates a clean flush surface.**
- **Accommodates all large size tool operated styles.**






| A | PART NUMBERS | MATERIAL |
|---|---|---|
| 6.6 (.26) | **E3-77-251-12** | Galvanized steel |
| 9.3 (.37) | **E3-77-252-12** | Galvanized steel |
| 6.6 (.26) | **E3-77-251-24** | 304 Stainless steel |
| 9.3 (3.7) | **E3-77-252-24** | 304 Stainless steel |



- **6.4 mm (.250") compression pull-up.**
- **Most models can activate multi-point compression systems.**

## VISE ACTION™ SERIES, LARGE SIZE

NEMA 4

MULTI-POINT LATCHING

| GRIP RANGE | | HEAD STYLES | | | | |
|---|---|---|---|---|---|---|
| | | 8mm HEX RECESS | TUBULAR KEY | KNOB | T-HANDLE LOCKING | T-HANDLE NON-LOCKING |
| MIN. | MAX. | | | | | |
| | | PART NUMBERS | | | | |
| 11.4 (.45) | 27.2 (1.07) | E3-16-15 | E3-15-15 | E3-17-15 | E3-18-15 | E3-11-15 |
| 25.4 (1.00) | 41.1 (1.62) | E3-16-25 | E3-15-25 | E3-17-25 | E3-18-25 | E3-11-25 |
| 38.9 (1.53) | 54.6 (2.15) | E3-16-35 | E3-15-35 | E3-17-35 | E3-18-35 | E3-11-35 |
| 52.6 (2.07) | 68.3 (2.69) | E3-16-25 | E3-15-25 | E3-17-25 | E3-18-25 | E3-11-25 |
| 66.3 (2.61) | 76.2 (3.00) | E3-16-15 | E3-15-15 | E3-17-15 | E3-18-15 | E3-11-15 |
| | | KEY PART NUMBER (order separately) | | | | |
| | | 8mm Hex Wrench | E3-5-15 | None | Keys Provided | None |

* Bellcore, Bellcore Electronics, and European Railway Standard head styles are also available. Please call.

| GRIP RANGE | | HEAD STYLES | | | | |
|---|---|---|---|---|---|---|
| | | SLOTTED RECESS | DOUBLE BITTED | 7mm TRIANGLE | 7mm SQUARE | 8mm SQUARE |
| MIN. | MAX. | | | | | |
| | | PART NUMBERS | | | | |
| 11.4 (.45) | 27.2 (1.07) | E3-19-15 | E3-12-15 | E3-13-15 | E3-14-15 | E3-110-15 |
| 25.4 (1.00) | 41.1 (1.62) | E3-19-25 | E3-12-25 | E3-13-25 | E3-14-25 | E3-110-25 |
| 38.9 (1.53) | 54.6 (2.15) | E3-19-35 | E3-12-35 | E3-13-35 | E3-14-35 | E3-110-35 |
| 52.6 (2.07) | 68.3 (2.69) | E3-19-25 | E3-12-25 | E3-13-25 | E3-14-25 | E3-110-25 |
| 66.3 (2.61) | 76.2 (3.00) | E3-19-15 | E3-12-15 | E3-13-15 | E3-14-15 | E3-110-15 |
| | | KEY PART NUMBER (order separately) | | | | |
| | | None | E3-2-1 | E3-3-1 | E3-4-1 | E3-8-1 |

## ACCESSORIES (ORDER SEPARATELY)

**SEALING COVER**



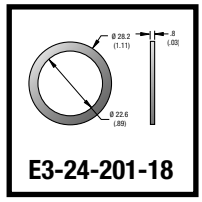
90-3*

**PULL TAB**



E3-27-1*

**GASKET**



E3-24-201-18

**PADLOCK BRACKETS**



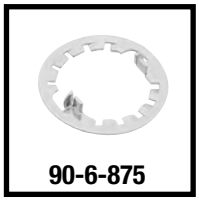
E3-77-101-31*



E3-77-102-31*

*Low profile head styles only

**SPUR WASHER**



90-6-875

Used for round hole installation

## KEYS (ORDER SEPARATELY)

**SOUTHCO® TUBULAR KEY**



E3-5-15

**SQUARE DRIVER**



E3-4-1 (7mm)
E3-8-1 (8mm)

**DOUBLE BITTED**



E3-2-1

**TRIANGLE**



E3-3-1

## VISE ACTION™ SERIES, WING KNOB, ADJUSTABLE GRIP

- **Wide grip range.**
- **Available with or without key lock.**
- **Multiple key codes available, please call.**
- **6.4 mm (.250") compression "pull-up".**
- **Suitable for NEMA 4 applications.**

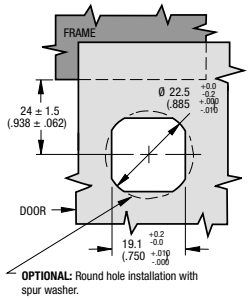
NEMA 4

MULTI-POINT LATCHING

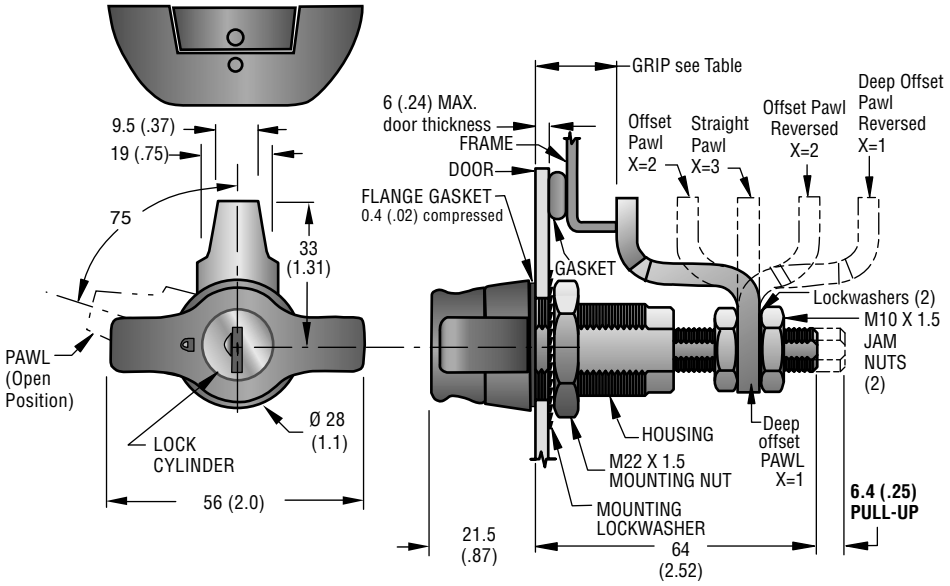


**NON-LOCKING VERSION (Shown)**

### PANEL PREPARATION




**OPTIONAL:** Round hole installation with spur washer.




### Non Locking

| GRIP RANGE (Adjustable Grip) | | PART NUMBER |
|---|---|---|
| MIN. | MAX. | |
| 11.4 (.45) | 27.2 (1.07) | E3-150-15 |
| 25.4 (1.00) | 41.1 (1.62) | E3-150-25 |
| 38.9 (1.53) | 54.6 (2.15) | E3-150-35 |
| PAWL REVERSED | | |
| 52.6 (2.08) | 68.3 (2.69) | E3-150-25 |
| 66.3 (2.61) | 76.2 (3.00) | E3-150-15 |

### Standard Locking

| GRIP RANGE (Adjustable Grip) | | PART NUMBER |
|---|---|---|
| MIN. | MAX. | |
| 11.4 (.45) | 27.2 (1.07) | E3-151-15 |
| 25.4 (1.00) | 41.1 (1.62) | E3-151-25 |
| 38.9 (1.53) | 54.6 (2.15) | E3-151-35 |
| PAWL REVERSED | | |
| 52.6 (2.08) | 68.3 (2.69) | E3-151-25 |
| 66.3 (2.61) | 76.2 (3.00) | E3-151-15 |

**NOTE:**
- **Lock Plug has a black face.**
- **Optional overmolded key is available (see below)**



| | |
|---|---|
| PK-10-10-05 | Single key |
| PK-10-01-05 | Two keys ringed |

### Dust Shuttered Locking

| GRIP RANGE (Adjustable Grip) | | PART NUMBER |
|---|---|---|
| MIN. | MAX. | |
| 11.4 (.45) | 27.2 (1.07) | E3-158-15 |
| 25.4 (1.00) | 41.1 (1.62) | E3-158-25 |
| 38.9 (1.53) | 54.6 (2.15) | E3-158-35 |
| PAWL REVISED | | |
| 52.6 (2.08) | 68.3 (2.69) | E3-158-25 |
| 66.3 (2.61) | 76.2 (3.00) | E3-158-15 |

**NOTE:**
- **Lock Plug has a stainless steel face.**
- **Easy action reversible key.**

**For detailed material specifications and product strength guidelines.**

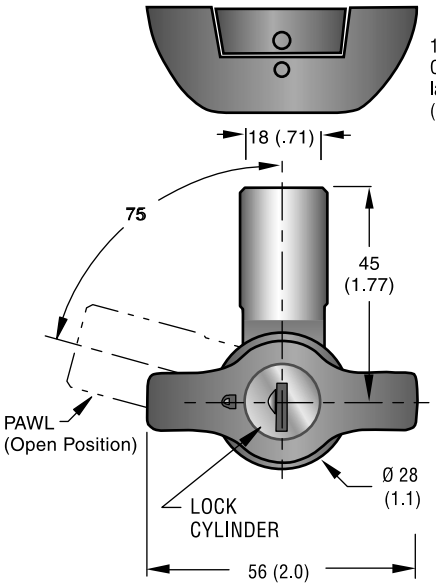
**www.clancey.com**

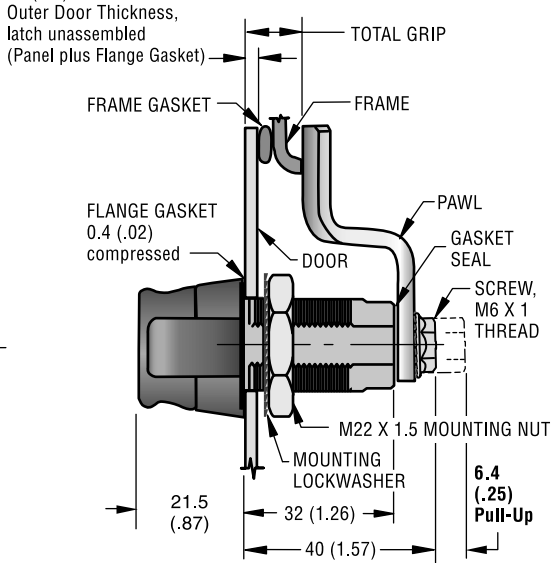
- **Fixed grip allows for quick installation.**
- **Minimal interior protrusion 40 mm (1.70").**

## VISE ACTION™ SERIES, WING KNOB, FIXED GRIP

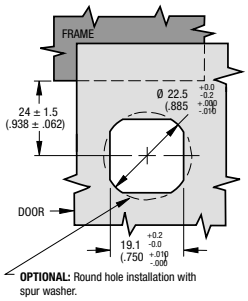



**DUST SHUTTERED-LOCKING VERSION (Shown)**




### PANEL PREPARATION




### Non-Locking

| PART NUMBER | TOTAL GRIP | PART NUMBER | TOTAL GRIP | PART NUMBER | TOTAL GRIP | PART NUMBER | TOTAL GRIP |
|---|---|---|---|---|---|---|---|
| E3-1250-005 | 15 (.59") | E3-1250-055 | 25 (.98") | E3-1250-105 | 35 (1.38") | E3-1250-155 | 45 (1.77") |
| E3-1250-015 | 17 (.67") | E3-1250-065 | 27 (1.06") | E3-1250-115 | 37 (1.46") | E3-1250-165 | 47 (1.85") |
| E3-1250-025 | 19 (.75") | E3-1250-075 | 29 (1.14") | E3-1250-125 | 39 (1.53") | E3-1250-175 | 49 (1.93") |
| E3-1250-035 | 21 (.83") | E3-1250-085 | 31 (1.22") | E3-1250-135 | 41 (1.61") | E3-1250-185 | 51 (2.01") |
| E3-1250-045 | 23 (.91") | E3-1250-095 | 33 (1.30") | E3-1250-145 | 43 (1.69") | E3-1250-195 | 53 (2.09") |

### Standard Locking

**NOTES:**
- **Lock Plug has a black face.**
- **Optional overmolded key is available (see page 44)**

| PART NUMBER | TOTAL GRIP | PART NUMBER | TOTAL GRIP | PART NUMBER | TOTAL GRIP | PART NUMBER | TOTAL GRIP |
|---|---|---|---|---|---|---|---|
| E3-1251-005 | 15 (.59") | E3-1251-055 | 25 (.98") | E3-1251-105 | 35 (1.38") | E3-1251-155 | 45 (1.77") |
| E3-1251-015 | 17 (.67") | E3-1251-065 | 27 (1.06") | E3-1251-115 | 37 (1.46") | E3-1251-165 | 47 (1.85") |
| E3-1251-025 | 19 (.75") | E3-1251-075 | 29 (1.14") | E3-1251-125 | 39 (1.53") | E3-1251-175 | 49 (1.93") |
| E3-1251-035 | 21 (.83") | E3-1251-085 | 31 (1.22") | E3-1251-135 | 41 (1.61") | E3-1251-185 | 51 (2.01") |
| E3-1251-045 | 23 (.91") | E3-1251-095 | 33 (1.30") | E3-1251-145 | 43 (1.69") | E3-1251-195 | 53 (2.09") |

### Dust Shuttered Locking

**NOTES:**
- **Lock Plug has stainless steel face and shutter.**
- **Easy action reversible key.**

| PART NUMBER | TOTAL GRIP | PART NUMBER | TOTAL GRIP | PART NUMBER | TOTAL GRIP | PART NUMBER | TOTAL GRIP |
|---|---|---|---|---|---|---|---|
| E3-1258-005 | 15 (.59") | E3-1258-055 | 25 (.98") | E3-1258-105 | 35 (1.38") | E3-1258-155 | 45 (1.77") |
| E3-1258-015 | 17 (.67") | E3-1258-065 | 27 (1.06") | E3-1258-115 | 37 (1.46") | E3-1258-165 | 47 (1.85") |
| E3-1258-025 | 19 (.75") | E3-1258-075 | 29 (1.14") | E3-1258-125 | 39 (1.53") | E3-1258-175 | 49 (1.93") |
| E3-1258-035 | 21 (.83") | E3-1258-085 | 31 (1.22") | E3-1258-135 | 41 (1.61") | E3-1258-185 | 51 (2.01") |
| E3-1258-045 | 23 (.91") | E3-1258-095 | 33 (1.30") | E3-1258-145 | 43 (1.69") | E3-1258-195 | 53 (2.09") |

EXPANDED RANGE

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

## VISE ACTION™ SERIES 3-HOLE MOUNT

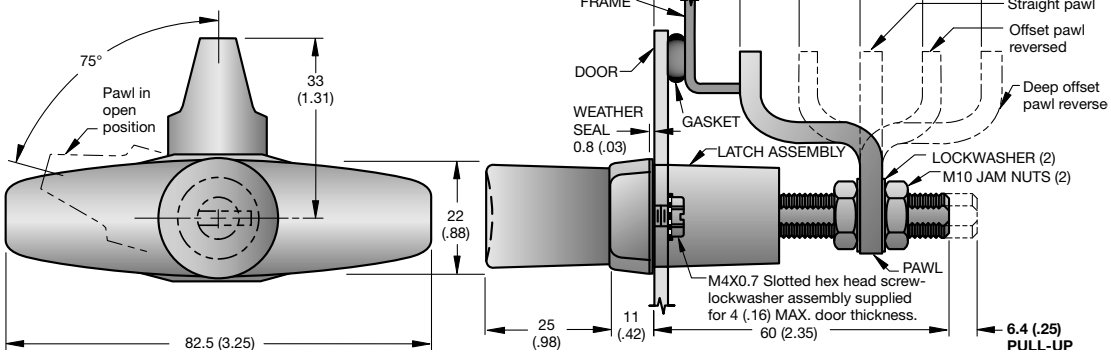
- **Anti-rotation three hole mounting.**
- **Most models can actuate multi-point compression systems.**

MULTI-POINT LATCHING

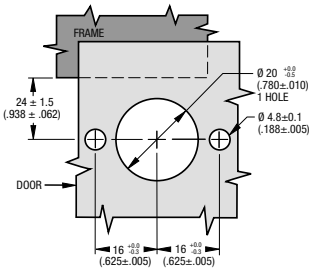


**8mm Hex (pictured)**

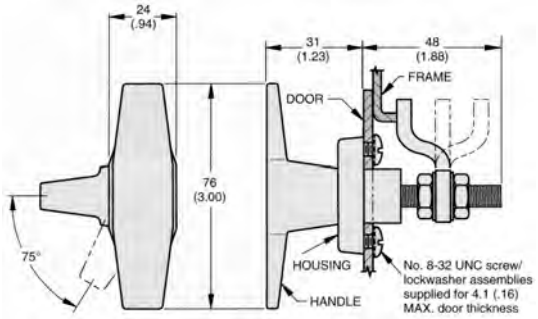
### STANDARD T-HANDLE



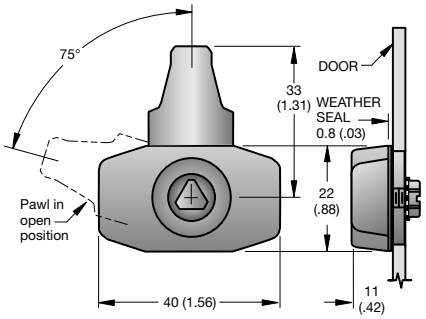

### PANEL PREPARATION




### COMPACT T-HANDLE




### LOW PROFILE HEAD STYLES (7mm triangle shown)




### KEYS (order separately)

**TRIANGLE**



E3-3-1

**SQUARE**



E3-4-1

**SOUTHCO® TUBULAR KEY**



E3-5-15

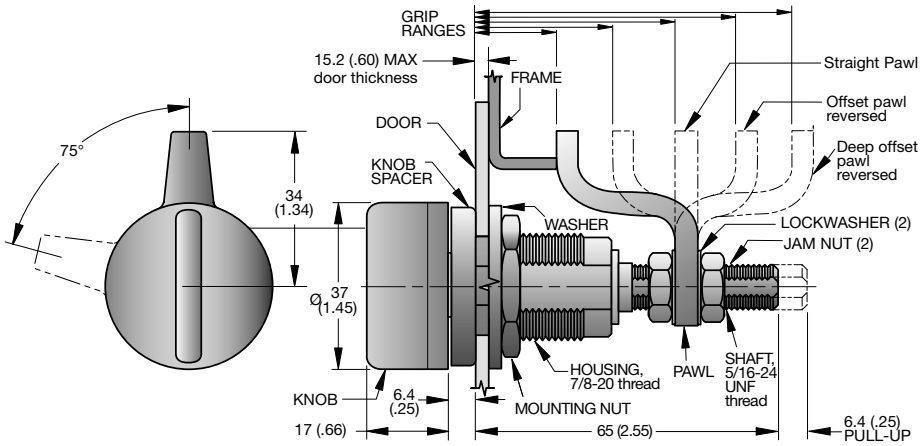
**For detailed material specifications and product strength guidelines.**

**www.clancey.com**

| GRIP RANGE | | HEAD STYLES | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 8mm HEX RECESS | 7mm TRIANGLE | 7mm SQUARE | TUBULAR KEY | T-HANDLE LOCKING | T-HANDLE NON-LOCKING | T-HANDLE NON-LOCKING |
| MIN. | MAX. | | | | | STANDARD | STANDARD | COMPACT |
| | | PART NUMBERS | | | | | | |
| .31" | .93" | E3-36-15 | E3-33-15 | E3-34-15 | E3-35-15 | E3-38-15 | E3-31-15 | E3-41-15 |
| .86" | 1.47" | E3-36-25 | E3-33-25 | E3-34-25 | E3-35-25 | E3-38-25 | E3-31-25 | E3-41-25 |
| 1.39" | 2.00" | E3-36-35 | E3-33-35 | E3-34-35 | E3-35-35 | E3-38-35 | E3-31-35 | ——— |
| 1.93" | 2.55" | E3-36-25 | E3-33-25 | E3-34-25 | E3-35-25 | E3-38-25 | E3-31-25 | ——— |
| 2.47" | 3.00" | E3-36-15 | E3-33-15 | E3-34-15 | E3-35-15 | E3-38-15 | E3-31-15 | ——— |
| | | KEY PART NUMBER (order separately) | | | | | | |
| | | 8mm Hex Wrench | E3-3-1 | E3-4-1 | E3-5-15 | Keys Provided | None | None |

- **Single hole mount, large size.**
- **Knob provides quick, unrestricted access.**
- **Wider flange for mounting in non-metallic materials.**

## VISE ACTION™ SERIES KNOB STYLE






**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

### ACCESSORY

**SPUR WASHER**

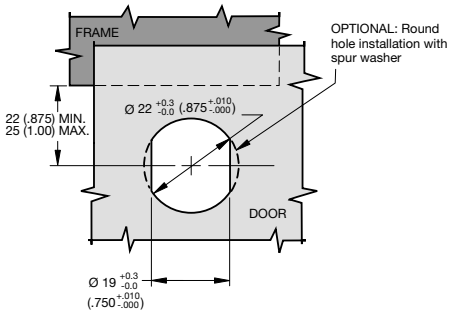


**90-6-875**

* Used for round hole installations.

| GRIP RANGE | | PART NUMBERS |
|---|---|---|
| MIN. | MAX. | |
| 11.4 (.45) | 27.2 (1.07) | **E3-10-504-50** |
| 25.4 (1.00) | 44.1 (1.62) | **E3-10-505-50** |
| 38.9 (1.53) | 54.6 (2.15) | **E3-10-506-50** |
| 52.6 (2.07) | 68.3 (2.69) | **E3-10-505-50** |
| 66.3 (2.61) | 76.2 (3.00) | **E3-10-504-50** |

### PANEL PREPARATION

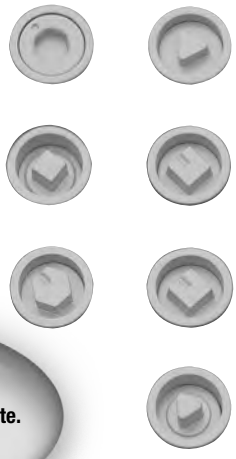



## VISE ACTION™ SERIES, FIXED GRIP (MINIMAL PROTRUSION)

- **Minimal interior protrusion of 46.4mm (1.82 in).**
- **Eleven access styles.**
- **Pre-assembled version available for thin panels.**
- **Single hole mount.**
- **Fixed grip.**



## VISE ACTION™ SERIES FLUSH MOUNT



- **Completely flush to the outer surface of the panel.**
- **Seven access styles.**
- **Designed for use in thicker panels, such as wood or composite materials.**

**See our complete updated offering of this product range on our website.**

**www.clancey.com**

## N2 COMPRESSION LATCH
## LIFT & TURN SERIES, FOLDING T-HANDLE, FLUSH CUP STYLE, ADJUSTABLE GRIP



- **Heavy-duty performance.**
- **Flush profile when latched.**
- **Easy grip adjustment.**
- **Intuitive operation.**
- **N2 Series also available in different sizes.**
- **Latch also available without cup.**

### Part Number Selection
Order both parts separately
Choose latch body style
Choose cam (see table)

### Latch Part Number Selection

L Locking style
0 Non-locking
1 Key-locking keyed alike CH751 (2 keys supplied)
Latch part number (no cam)

**Stainless**

**N2 - 2 - 30 L - 01 - 20**

**Black Powder Coated**

**N2 - 2 - 30 L - 01 - 5**

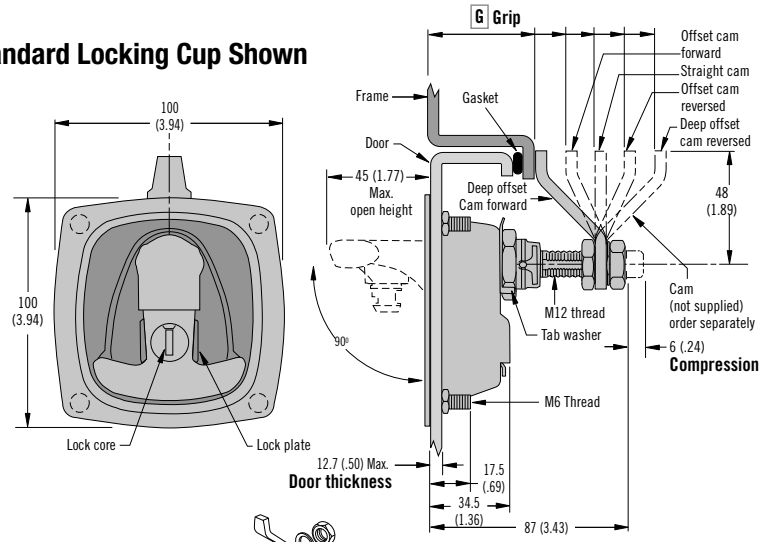
### Performance Details
Stainless steel - Max. static load: 2000 N (450 lbf)
Powder coated - Max. static load: 1000 N (225 lbf)

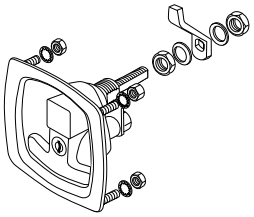
### Installation Notes
1. Insert latch and tighten 4 mounting nuts.
2. With latch in closed position, adjust jam nuts to position cam at correct grip.
   Stainless steel - recommended tightening torque: 20-25 N•m (177-221 in lbf).
   Powder coated - maximum tightening torque: 20 N•m (177 in lbf).
3 If using M12 cam tab washer, after cam is adjusted to correct grip, bend both tabs over the M12 nut.

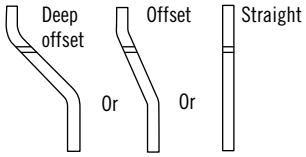
### Keys
Key-locking keyed alike CH751 (2 keys supplied).

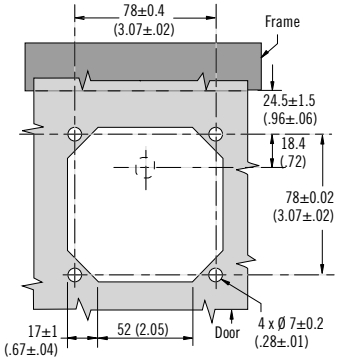


### Standard Locking Cup Shown





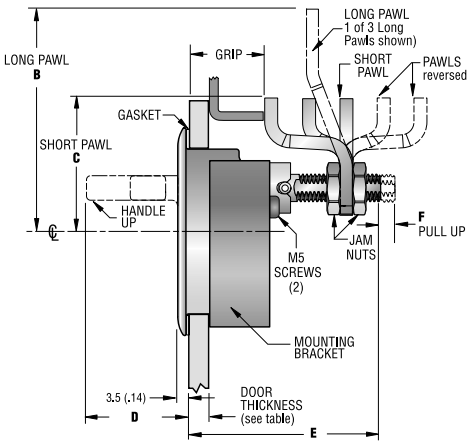




**CAM PART NUMBER TABLE (ORDER SEPARATELY)**

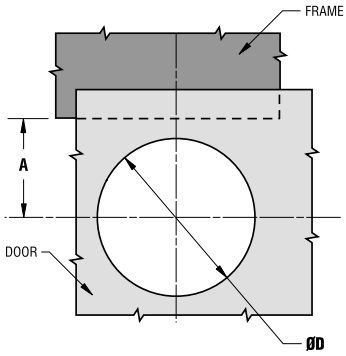
| PART NUMBER | | G Grip | | Cam Type |
|---|---|---|---|---|
| STAINLESS | ZINC PLATED | Min. | Max. | |
| N2-21-101-24 | N2-21-101-12 | 28 (1.10) | 43 (1.69) | Deep offset cam, forward |
| | | 88 (3.46) | 104 (4.09) | Deep offset cam, reversed |
| N2-21-102-24 | N2-21-102-12 | 43 (1.69) | 58 (2.28) | Offset cam, forward |
| | | 73 (2.87) | 88 (3.46) | Offset cam, reversed |
| N2-21-103-24 | N2-21-103-12 | 58 (2.28) | 73 (2.87) | Straight |

- **Corrosion resistant.**
- **2 sizes of latches.**
- **Key lockable or non-locking.**
- **2 lengths of pawls.**
- **Suitable for NEMA 4 applications.**

## ROUND, FLUSH LIFT AND TURN LATCH




### PANEL PREPARATION






**2.00" Non-Locking**



**2.50" Locking**

NEMA 4

STAINLESS

| PANEL PREPARATION | | | | |
|---|---|---|---|---|
| | 2.00" version | | 2.50" version | |
| | Long Pawl | Short Pawl | Long Pawl | Short Pawl |
| A | 60±1.5 (2.38 ±.06) | 48 ±1.5 (1.88 ±.06) | 75 ±5 (2.95 ±.2) | 40 ±1.5 (1.57 ±.06) |
| ØD | Ø 50.8 ±0.5 (2.00 ±.02) | | Ø 63.5 ±0.5 (2.50 ±.02) | |

**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

| Panel Thickness | Grip Range | | 2.00" Non-Locking | | 2.00" Locking (w/ 2 keys) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Min. | Max. | Short Pawl | Long Pawl | Short Pawl | Long Pawl | A | B | C | D | E | F |
| 2 (.075") to 12 (.475") | call | 28 (1.10") | M1-20-31-58 | M1-20-31-88 | M1-20-81-58 | M1-20-81-88 | 61.5 (2.41") | 70 (2.75") | 56.5 (2.23") | 30 (1.18") | 61.5 (2.42") | 4 (.16") |
| | 27 (1.06") | 40 (1.57") | M1-20-31-48 | M1-20-31-78 | M1-20-81-48 | M1-20-81-78 | | | | | | |
| | 39 (1.53") | 52 (2.04") | M1-20-31-38 | M1-20-31-68 | M1-20-81-38 | M1-20-81-68 | | | | | | |
| | 51 (2.01") | 64 (2.52") | M1-20-31-48 | M1-20-31-78 | M1-20-81-48 | M1-20-81-78 | | | | | | |
| | 63 (2.48") | 76 (3.00") | M1-20-31-58 | M1-20-31-88 | M1-20-81-58 | M1-20-81-88 | | | | | | |
| 12 (.475") to 22 (.885") | call | 28 (1.10") | M1-20-32-58 | M1-20-32-88 | M1-20-82-58 | M1-20-82-88 | | | | | | |
| | 27 (1.06") | 40 (1.57") | M1-20-32-48 | M1-20-32-78 | M1-20-82-48 | M1-20-82-78 | | | | | | |
| | 39 (1.53") | 52 (2.04") | M1-20-32-38 | M1-20-32-68 | M1-20-82-38 | M1-20-82-68 | | | | | | |
| | 51 (2.01") | 64 (2.52") | M1-20-32-48 | M1-20-32-78 | M1-20-82-48 | M1-20-82-78 | | | | | | |
| | 63 (2.48") | 76 (3.00") | M1-20-32-58 | M1-20-32-88 | M1-20-82-58 | M1-20-82-88 | | | | | | |

| Panel Thickness | Grip Range | | 2.50" Non-Locking | | 2.50" Locking (w/ 2 keys) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Min. | Max. | Short Pawl | Long Pawl | Short Pawl | Long Pawl | A | B | C | D | E | F |
| 2 (.075") to 12 (.475") | call | 25 (1.38") | M1-25-31-58 | M1-25-31-88 | M1-25-81-58 | M1-25-81-88 | 76 (3.00") | 89 (3.50") | 49.5 (1.95") | 37 (1.46") | 71 (2.80") | 5 (.20") |
| | 34 (1.34") | 48 (1.89") | M1-25-31-48 | M1-25-31-78 | M1-25-81-48 | M1-25-81-78 | | | | | | |
| | 47 (1.85") | 61 (2.40") | M1-25-31-38 | M1-25-31-68 | M1-25-81-38 | M1-25-81-68 | | | | | | |
| | 60 (2.36") | 75 (2.95") | M1-25-31-48 | M1-25-31-78 | M1-25-81-48 | M1-25-81-78 | | | | | | |
| | 74 (2.91") | 88 (3.47") | M1-25-31-58 | M1-25-31-88 | M1-25-81-58 | M1-25-81-88 | | | | | | |
| 12 (.475") to 22 (.885") | call | 25 (1.38") | M1-25-32-58 | M1-25-32-88 | M1-25-82-58 | M1-25-82-88 | | | | | | |
| | 34 (1.34") | 48 (1.89") | M1-25-32-48 | M1-25-32-78 | M1-25-82-48 | M1-25-82-78 | | | | | | |
| | 47 (1.85") | 61 (2.40") | M1-25-32-38 | M1-25-32-68 | M1-25-82-38 | M1-25-82-68 | | | | | | |
| | 60 (2.36") | 75 (2.95") | M1-25-32-48 | M1-25-32-78 | M1-25-82-48 | M1-25-82-78 | | | | | | |
| | 74 (2.91") | 88 (3.47") | M1-25-32-58 | M1-25-32-88 | M1-25-82-58 | M1-25-82-88 | | | | | | |

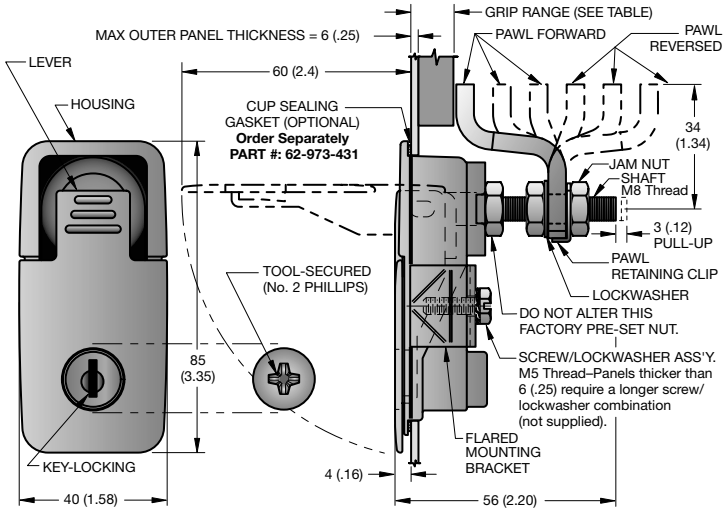
* Please call for assistance if you are trying to apply this product with a small grip range.

## LIFT AND TURN® SERIES
## FLUSH STYLE, MEDIUM SIZE

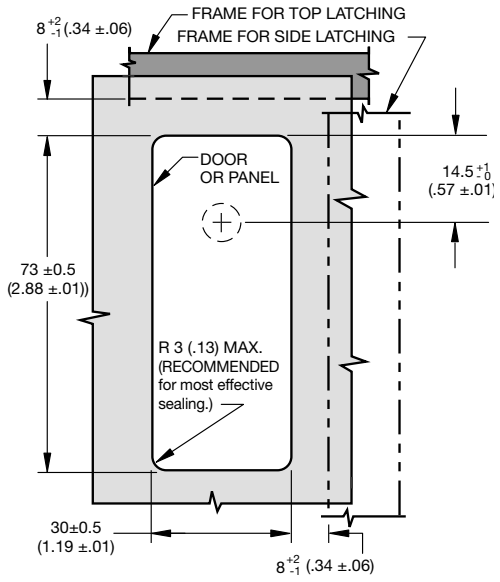
- **Hand, tool or key actuation.**
- **Sealing gasket for NEMA 4 applications.**
- **All versions use same panel preparation.**

NEMA 4






### PANEL PREPARATION




### NEMA 4 SEALING INSTRUCTIONS

1. **Seal the mounting screw threads with an anaerobic sealant.**
2. **Install latch with cup sealing gasket part number 62-973-431 (order cup sealing gasket separately).**

| GRIP RANGE | | PART NUMBERS | | | |
|---|---|---|---|---|---|
| PAWL FORWARD | PAWL REVERSED | STYLE | TEXTURED CHROME | BLACK POWDER | POLISHED CHROME |
| MIN - MAX | MIN - MAX | | | | |
| 6 (.23) - 16 (.63) | 56 (2.20) - 66 (2.59) | BASIC | 62-40-101-3 | 62-40-151-3 | 62-40-111-3 |
| 16 (.63) - 26 (1.02) | 46 (1.81) - 56 (2.20) | | 62-40-201-3 | 62-40-251-3 | 62-40-211-3 |
| 26 (1.02) - 36 (1.41) | 36 (1.41) - 46 (1.81) | | 62-40-301-3 | 62-40-351-3 | 62-40-311-3 |
| 6 (.23) - 16 (.63) | 56 (2.20) - 66 (2.59) | KEY-LOCKING | 62-42-101-3 | 62-42-151-3 | 62-42-111-3 |
| 16 (.63) - 26 (1.02) | 46 (1.81) - 56 (2.20) | | 62-42-201-3 | 62-42-251-3 | 62-42-211-3 |
| 26 (1.02) - 36 (1.41) | 36 (1.41) - 46 (1.81) | | 62-42-301-3 | 62-42-351-3 | 62-42-311-3 |
| 6 (.23) - 16 (.63) | 56 (2.20) - 66 (2.59) | TOOL-SECURED | 62-43-101-3 | 62-43-151-3 | 62-43-111-3 |
| 16 (.63) - 26 (1.02) | 46 (1.81) - 56 (2.20) | | 62-43-201-3 | 62-43-251-3 | 62-43-211-3 |
| 26 (1.02) - 36 (1.41) | 36 (1.41) - 46 (1.81) | | 62-43-301-3 | 62-43-351-3 | 62-43-311-3 |

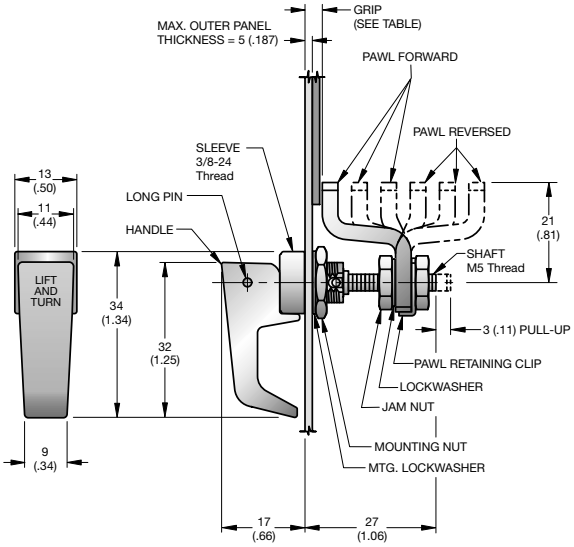
- **Easy to grab handle style.**
- **Simple lift and turn operation.**

## LIFT AND TURN® SERIES HANDLE STYLE

NSF

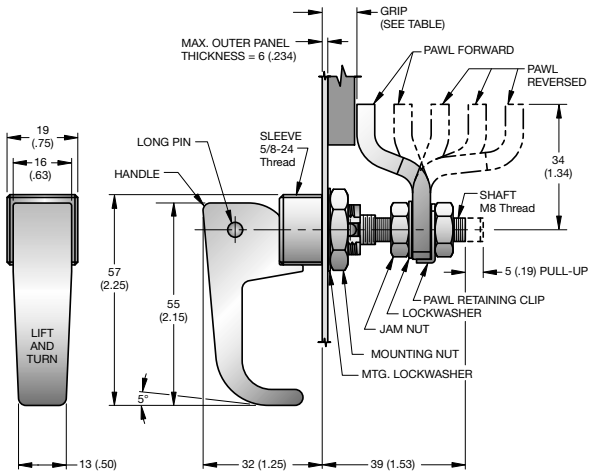
### MINIATURE SIZE




| GRIP | | PART NUMBER | |
|---|---|---|---|
| MIN. | MAX. | Polished Chrome | Black Powder Coated |
| 0 (0) | 4 (.16) | **62-20-11** | **62-20-15** |
| 4 (.16) | 10 (.39) | **62-20-21** | **62-20-25** |
| 10 (.39) | 16 (.63) | **62-20-31** | **62-20-35** |
| 16 (.63) | 22 (.87) | **62-20-31** | **62-20-35** |
| 22 (.87) | 28 (1.10) | **62-20-21** | **62-20-25** |
| 28 (1.10) | 34 (1.34) | **62-20-11** | **62-20-15** |

### SMALL SIZE




| GRIP | | PART NUMBER | | | |
|---|---|---|---|---|---|
| MIN. | MAX. | Polished Chrome | Brushed Chrome | Natural with Chemical Protective Film | Black Powder Coated |
| 2 (.08) | 12 (.47) | **62-10-21** | **62-10-22** | **62-10-23** | **62-10-25** |
| 12 (.47) | 22 (.87) | **62-10-31** | **62-10-32** | **62-10-33** | **62-10-35** |
| 22 (.87) | 32 (1.25) | **62-10-31** | **62-10-32** | **62-10-33** | **62-10-35** |
| 32 (1.25) | 42 (1.66) | **62-10-21** | **62-10-22** | **62-10-23** | **62-10-25** |
| 42 (1.66) | 52 (2.05) | **62-10-11** | **62-10-12** | **62-10-13** | **62-10-15** |

**For detailed material specifications plus product installation instructions.**

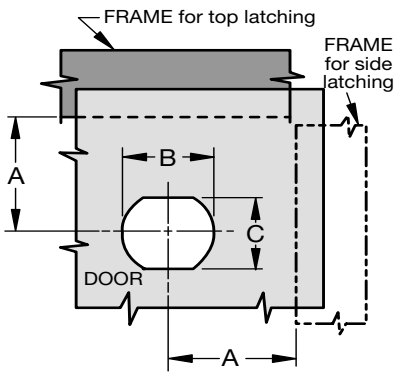
**www.clancey.com**

**Handle can be ordered without "LIFT AND TURN" lettering. Minimum order will apply.**

**www.clancey.com**

## PANEL PREPARATION

(See table for specific mounting dimensions)




| DIMENSIONS | SERIES | |
|---|---|---|
| | MINI | SMALL |
| A | 16 $^{+2}_{-1}$ (.63 ± .06) | 23 $^{+2}_{-1}$ (.93 ±.06) PAWL FORWARD |
| | | 28 $^{+2}_{-1}$ (1.10 ±.06) PAWL REVERSED |
| B | Ø 9.5 $^{+0.1}_{-0.0}$ (.375 $^{+.004}_{-.000}$) | Ø 16.3 $^{+0.1}_{-0.0}$ (.640 $^{+.005}_{-.000}$) |
| C | 8.1 $^{+0.1}_{-0.0}$ (.320 $^{+.004}_{-.000}$) | 13.7 $^{+0.1}_{-0.0}$ (.540 $^{+.005}_{-.000}$) |

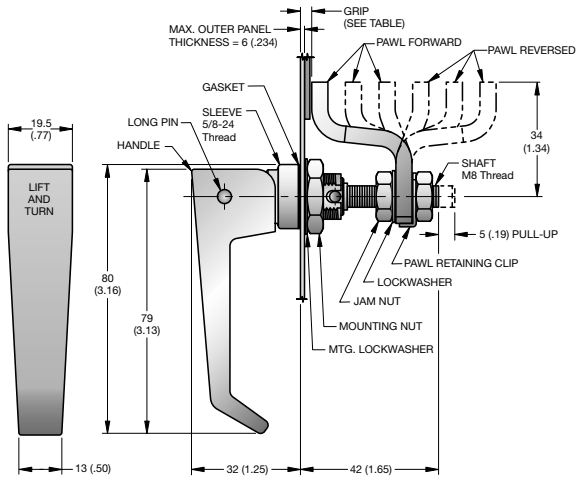
## LIFT AND TURN® SERIES HANDLE STYLE

- **Easy to grab handle.**
- **Simple lift and turn operation.**
- **Handles can be ordered without "Lift and Turn" lettering (minimum order will apply).**

NSF

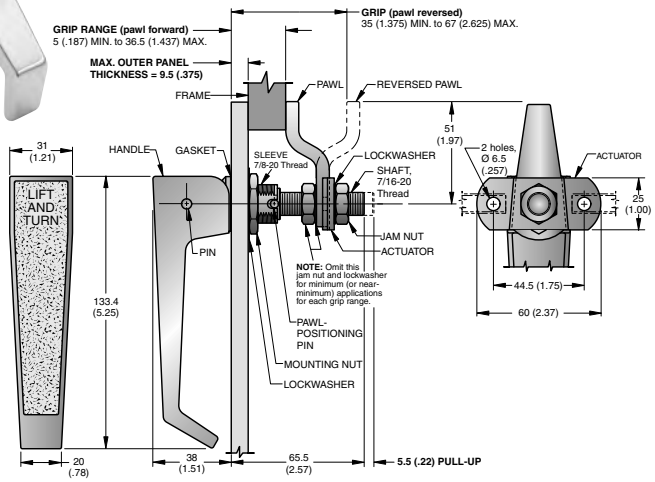



### MEDIUM SIZE




| GRIP | | PART NUMBER | | |
|---|---|---|---|---|
| MIN | MAX | POLISHED CHROME | BRUSHED CHROME | BLACK POWDER COATED |
| 0 (0) | 5 (.20) | 62-30-11 | 62-30-12 | 62-30-15 |
| 5 (.20) | 15 (.59) | 62-30-21 | 62-30-22 | 62-30-25 |
| 15 (.59) | 25 (.98) | 62-30-31 | 62-30-32 | 62-30-35 |
| 25 (.98) | 35 (1.37) | 62-30-31 | 62-30-32 | 62-30-35 |
| 35 (1.37) | 45 (1.77) | 62-30-21 | 62-30-22 | 62-30-25 |
| 45 (1.77) | 55 (2.16) | 62-30-11 | 62-30-12 | 62-30-15 |

### LARGE SIZE

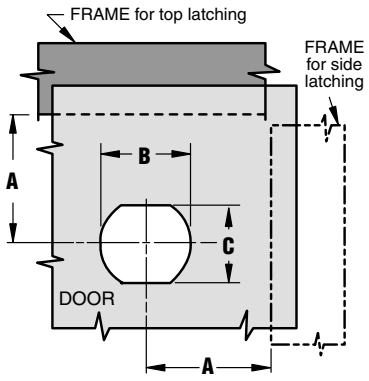



| PART NUMBER | |
|---|---|
| Polished chrome | 62-10-603-10 |
| Brushed chrome | 62-10-603-20 |




### PANEL PREPARATION

(See table for specific mounting dimensions)




| DIMENSIONS | SERIES | |
|---|---|---|
| | MEDIUM | LARGE |
| A | $23^{+2}_{-1}$ (.93 .06) PAWL FORWARD | 41 (1.623) MIN. |
| | $28^{+2}_{-1}$ (1.10 .06) PAWL REVERSED | 47.5 (1.875) MAX. |
| B | Ø $16.5^{+0.1}_{-0.0}$ ($.640^{+.005}_{-.000}$) | Ø $22^{+0.2}_{-0.0}$ ($.875^{+.010}_{-.000}$) |
| C | $13.7^{+0.1}_{-0.0}$ ($.540^{+.005}_{-.000}$) | $19^{+0.2}_{-0.0}$ ($.750^{+.010}_{-.000}$) |

**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

- **Push trigger to unlatch and raise handle.**
- **Single hole installation.**
- **Easy grip adjustment.**
- **Low profile when latched.**

## LEVER LATCH



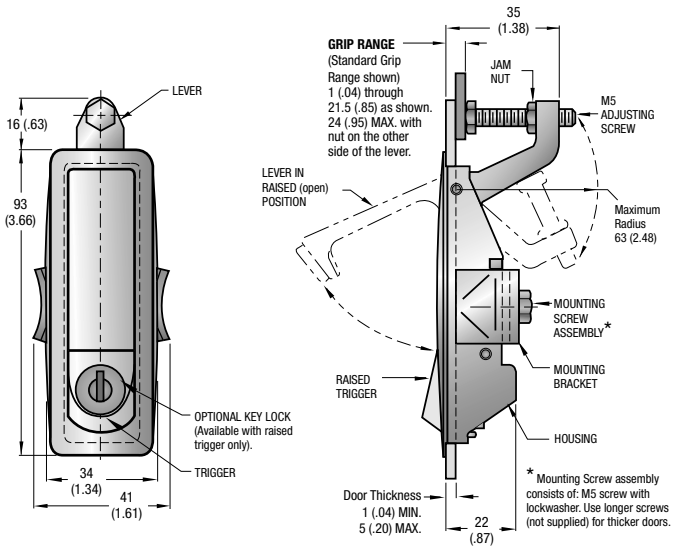
| TRIGGER STYLE | | PART NUMBERS | | | |
|---|---|---|---|---|---|
| | | GRIP RANGE 1 (.04) TO 24 (.95) | | GRIP RANGE 23 (.91) TO 46 (1.81) | |
| | | Matte Black Coat | Textured Chrome Finish | Matte Black Coat | Textured Chrome Finish |
| Raised Trigger | Railway Standard | C2-99-217-125 | ---------- | C2-99-217-145 | ---------- |
| | No. 2 Phillips | C2-32-215 | C2-32-101 | C2-33-105 | C2-33-101 |
| | 4mm Hex Recess | C2-32-45 | C2-32-41 | C2-33-45 | C2-33-41 |
| | Keylock (w/2 keys) | C2-32-25 | C2-32-21 | C2-33-25 | C2-33-11 |
| | Without Keylock | C2-32-15 | C2-32-11 | C2-33-15 | C2-33-21 |
| Flush Trigger | | C2-32-35 | C2-32-31 | C2-33-35 | C2-33-31 |

### Tool Access Styles



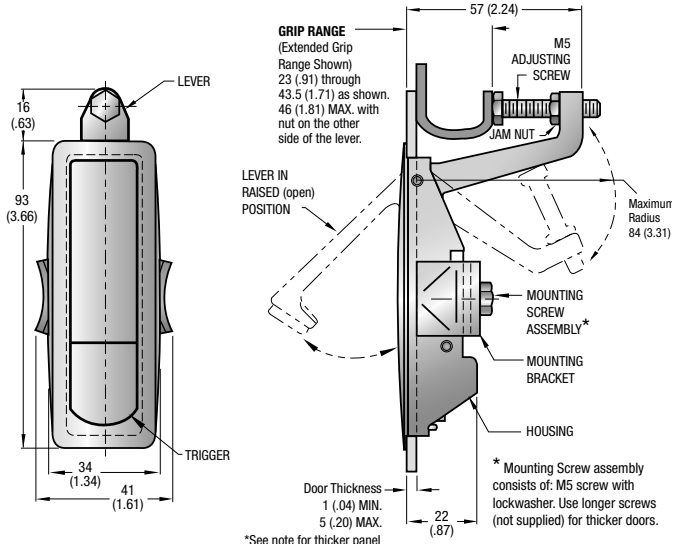

### RAISED TRIGGER

(Shown with lock and standard grip range)

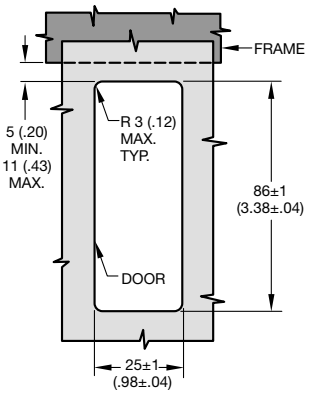



### FLUSH TRIGGER

(Shown with extended grip range)




### PANEL PREPARATION




clancey DESIGN DISTRIBUTOR

**Accessories:**

**Rubber Bumper**
**Part No. C2-25-301-82**



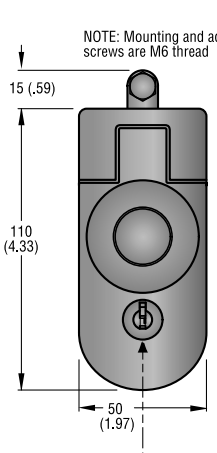
## SEALED LEVER LATCH

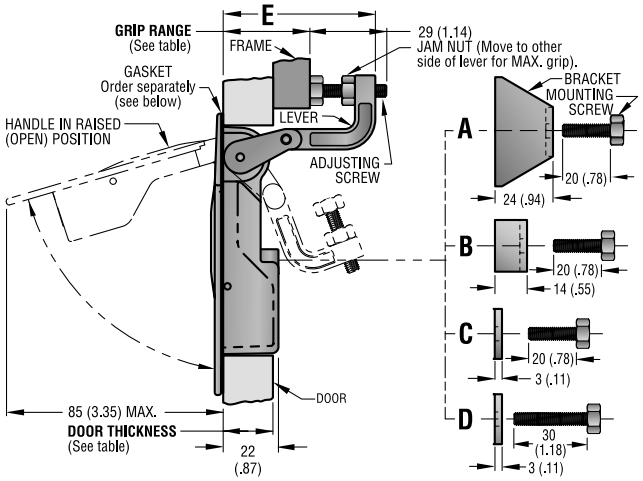
- Can be sealed to meet NEMA 4 standards.
- Low profile when latched.
- Non-locking, and 3 restricted access styles.
- Easy installation and adjustment.
- Latch and handle in one.

NEMA 4

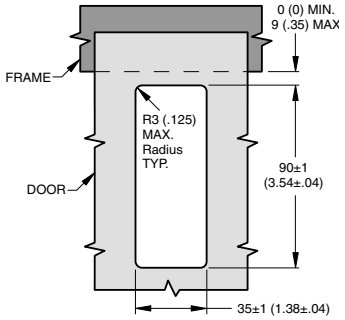
STAINLESS HARDWARE






### PANEL PREPARATION

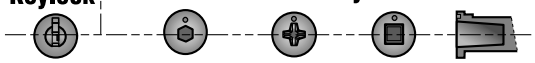



### Keylock

Locks keyed alike; different key codes available

Dust shutter option available

### Tool Access Styles



4mm Hex Recess

No.2 Phillips Recess

Railway Standard 7.5mm Tapered Square Recess

| MOUNTING HARDWARE | DOOR THICKNESS | | GRIP RANGE | | E | PART NUMBERS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MIN. | MAX. | MIN. | MAX. | | NON-LOCKING | LOCKING WITHOUT DUST SHUTTER | LOCKING WITH DUST SHUTTER | 4mm HEX RECESS | No. 2 PHILLIPS RECESS | RAILWAY STANDARD |
| A | 1 (.04) | 11 (.43) | 1 (.04) | 14 (.55) | 29 (1.14) | C5-11-15 | C5-21-15 | C5-31-15 | C5-41-15 | C5-51-15 | C5-61-15 |
| B | 11 (.43) | 21 (.83) | | | | C5-12-15 | C5-22-15 | C5-32-15 | C5-42-15 | C5-52-15 | C5-62-15 |
| A | 1 (.04) | 11 (.43) | 14 (.55) | 29 (1.14) | 44 (1.73) | C5-11-25 | C5-21-25 | C5-31-25 | C5-41-25 | C5-51-25 | C5-61-25 |
| B | 11 (.43) | 21 (.83) | | | | C5-12-25 | C5-22-25 | C5-32-25 | C5-42-25 | C5-52-25 | C5-62-25 |
| C | 21 (.83) | 31 (1.22) | | | | C5-13-25 | C5-23-25 | C5-33-25 | C5-43-25 | C5-53-25 | C5-63-25 |
| A | 1 (.04) | 11 (.43) | 29 (1.14) | 45 (1.77) | 60 (2.35) | C5-11-35 | C5-21-35 | C5-31-35 | C5-41-35 | C5-51-35 | C5-61-35 |
| B | 11 (.43) | 21 (.83) | | | | C5-12-35 | C5-22-35 | C5-32-35 | C5-42-35 | C5-52-35 | C5-62-35 |
| C | 21 (.83) | 31 (1.22) | | | | C5-13-35 | C5-23-35 | C5-33-35 | C5-43-35 | C5-53-35 | C5-63-35 |
| D | 31 (1.22) | 41 (1.61) | | | | C5-14-35 | C5-24-35 | C5-34-35 | C5-44-35 | C5-54-35 | C5-64-35 |
| A | 1 (.04) | 11 (.43) | 45 (1.77) | 57 (2.25) | 72 (2.84) | C5-11-45 | C5-21-45 | C5-31-45 | C5-41-45 | C5-51-45 | C5-61-45 |
| B | 11 (.43) | 21 (.83) | | | | C5-12-45 | C5-22-45 | C5-32-45 | C5-42-45 | C5-52-45 | C5-62-45 |
| C | 21 (.83) | 31 (1.22) | | | | C5-13-45 | C5-23-45 | C5-33-45 | C5-43-45 | C5-53-45 | C5-63-45 |
| D | 31 (1.22) | 41 (1.61) | | | | C5-14-45 | C5-24-45 | C5-34-45 | C5-44-45 | C5-54-45 | C5-64-45 |

For assemblies with stainless steel hardware change the **sixth** digit of the part number from **5** to **6**. Example: C5-21-1**5** to C5-21-1**6**.

### NEMA 4 SEALING INSTRUCTIONS

1. Seal the mounting screw threads with an anaerobic sealant.
2. Install latch with cup sealing gasket part number C5-82. (order cup sealing gasket separately)

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**Accessories:**

**Rubber Bumper**
**Part No. C5-25-301-82**





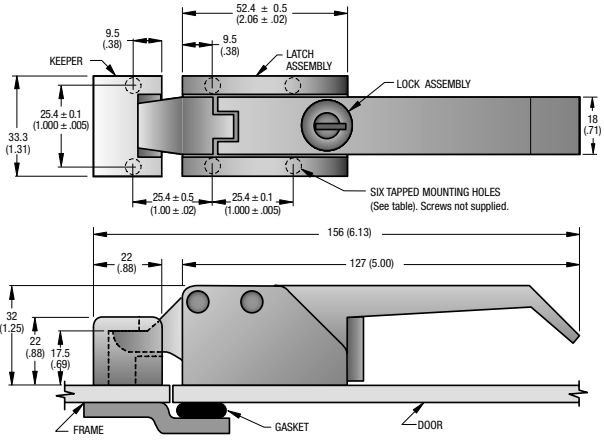
## OVER-CENTER LEVER LATCHES

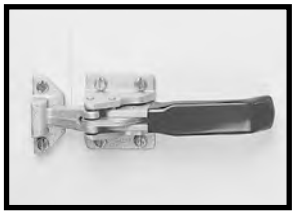
- **Designed for heavy-duty applications.**
- **Provides consistent gasket compression.**
- **Built-in leverage helps open stuck doors.**



| FINISH | STYLE | PART NUMBER tapped mounting hole size | |
|---|---|---|---|
| | | # 10-32 UNC x 0.38" deep | Metric M5 x 0.8 x 9.5mm deep |
| Satin silver coat | Standard | A7-10-301-75 | A7-10-351-75 |
| | with lock | A7-10-302-75 | A7-10-352-75 |
| black coat | Standard | A7-10-301-20 | A7-10-351-20 |
| | with lock | A7-10-302-20 | A7-10-352-20 |
| Chrome plated | Standard | A7-10-301-30 | A7-10-351-30 |
| | with lock | A7-10-302-30 | A7-10-352-30 |

### ADDITIONAL FEATURE: Keylockable (optional)



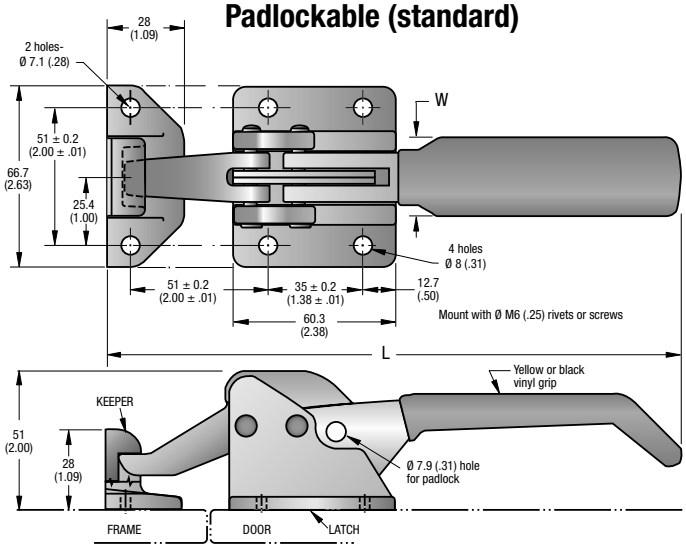



(non-locking) only

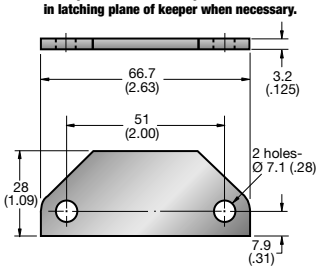
| STYLE | PART NUMBER | L | W |
|---|---|---|---|
| With plain handle | A2-10-501-10 | 211 (8.3) | 25.4 (1.00) |
| With yellow vinyl handle grip | A2-10-501-22 | 214 (8.44) | 30.2 (1.19) |
| With black vinyl handle grip | A2-10-501-21 | 214 (8.44) | 30.2 (1.19) |
| Additional shims* | A2-54-501-11 | | |

*One shim provided per latch assembly.

### ADDITIONAL FEATURE: Padlockable (standard)




**SHIM provided to make adjustments in latching plane of keeper when necessary.**




**For detailed material specifications and product strength guidelines.**

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## SPRING LATCH SERIES

STAINLESS STEEL AVAILABLE



For detailed material specifications plus product installation instructions.
**www.clancey.com**

- Economical latching solution.
- Cam action spring pawl provides wide grip range.
- Rivet or weld mounting.
- 4 sizes with a variety of head styles.
- "Spring action" of the latch provides constant compression of the panels.

| GRIP | SIZE | TYPE | SPRING STYLE | PART NUMBERS | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | HEAD STYLE | | | | | |
| | | | | KNURLED | HEX SOCKET | SLOTTED | BLACK KNOB | T-BAR | TOOL-HEAD RECESS |
| 1.2 (.05) MIN. – 4.3 (.17) MAX. | Mini | Rivet | Smooth | 57-20-201-10 | —— | 57-20-101-10 | 57-20-401-10 | —— | —— |
| | | Weld | Smooth | 57-20-202-50 | —— | 57-20-102-50 | —— | —— | —— |
| 1.2 (.05) MIN. – 6.4 (.25) MAX. | Small | Rivet | Smooth | 57-30-201-10 | —— | 57-30-101-10 | 57-30-401-10 | —— | —— |
| | | Weld | Smooth | 57-30-202-50 | —— | 57-30-102-50 | 57-30-402-50 | —— | —— |
| 1.6 (.06) MIN. – 9.5 (.38) MAX. | Medium (Steel) | Rivet | Smooth | 57-10-201-10 | 57-10-801-10 | 57-10-101-10 | 57-10-401-10 | 57-10-301-10 | —— |
| | | | Serrated | 57-10-211-10 | 57-10-811-10 | 57-10-111-10 | 57-10-411-10 | 57-10-311-10 | 57-T-10 |
| | | Weld | Smooth | 57-10-202-50 | 57-10-802-50 | 57-10-102-50 | 57-10-402-50 | —— | —— |
| | | | Serrated | 57-10-212-50 | —— | 57-10-112-50 | 57-10-412-50 | 57-10-312-50 | —— |
| | Medium (Stainless) | Rivet | Smooth | 57-10-201-40 | —— | 57-10-101-40 | —— | —— | —— |
| | | Weld | Smooth | 57-10-202-40 | —— | 57-10-102-40 | —— | —— | —— |
| 6.4 (.25) MIN. – 14.3 (.56) MAX. | Medium with Spacer | Rivet | Smooth | 57-10-203-10 | —— | 57-10-103-10 | 57-10-403-10 | —— | —— |
| 2.4 (.09) MIN. – 14.3 (.56) MAX. | Large | Rivet | Smooth | —— | 57-40-801-10 | 57-40-101-10 | 57-40-401-10 | 57-40-301-10 | —— |
| | | | Serrated | —— | 57-40-811-10 | 57-40-111-10 | 57-40-411-10 | 57-40-311-10 | —— |

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### "RIGHT SIZE" INVENTORY PROGRAM

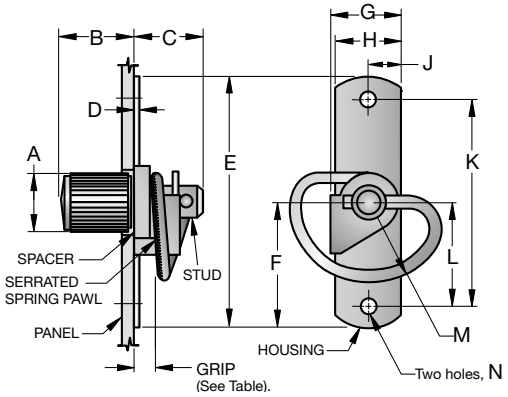
- Increases inventory turns
- Standardizes shipments
- Minimizes freight
- Custom to your company's needs
- Services multiple locations and subcontractors

For panel preparation instructions, please turn the page.

## SPRING LATCH SERIES

STAINLESS STEEL AVAILABLE

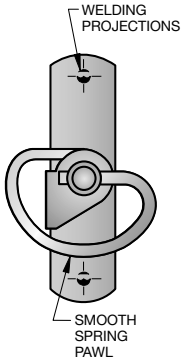
### KNURLED KNOB STYLE



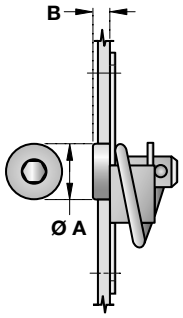

### RIVET TYPE



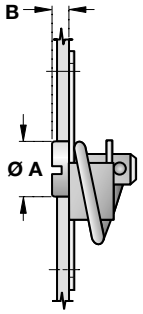

### WELD TYPE



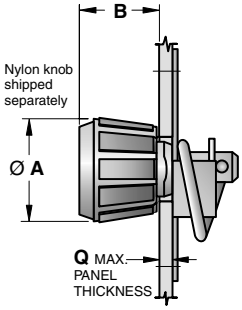

### HEX SOCKET HEAD STYLE



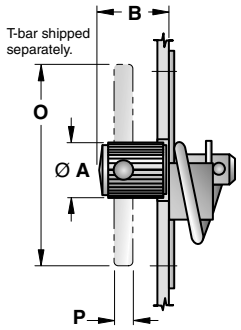

### SLOTTED HEAD STYLE




### BLACK KNOB STYLE

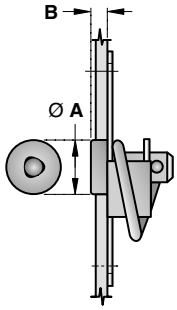



### T-BAR HEAD STYLE

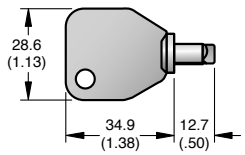



### TOOLHEAD® RECESS STYLE

Toolhead® is a registered trademark of Southco.




**Order separately Toolhead® Recess Key 29-90-215-10 •**




### DIMENSION TABLE

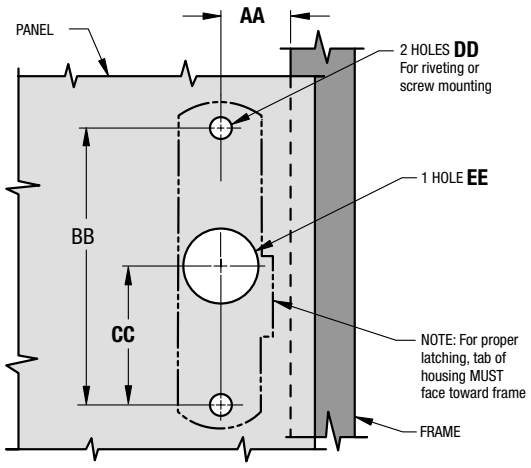
| SIZE | HEAD STYLE | DIMENSIONS | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ø A | B | C | D | E | F | G | H | J | K | L | M | N | O | P | Q MAX. Panel Thickness |
| Mini | Knurled | 6.6 (.26) | 11.9 (.47) | 7.5 (.30) | 0.8 (.031) | 27 (1.06) | 13.5 (.53) | 8.5 (.33) | 7.1 (.28) | 3.6 (.14) | 22.2 (.875) | 11.1 (.438) | 8.6 (.34) | 2.7 (.106) | — | — | — |
| | Slotted | 6.4 (.25) | 1.6 (.06) | | | | | | | | | | | | | | |
| | Black Knob | 13.5 (.53) | 11.9 (.47) | | | | | | | | | | | | | | 3.2 (.125) |
| Small | Knurled | 9.7 (.38) | 11.9 (.47) | 11.1 (.44) | 0.8 (.031) | 39.7 (1.56) | 19.8 (.78) | 11.6 (.458) | 10.6 (.416) | 5.3 (.208) | 33.3 (1.312) | 16.7 (.656) | 13 (.51) | 2.7 (.106) | — | — | — |
| | Slotted | 9.5 (.38) | 2.4 (.09) | | | | | | | | | | | | | | |
| | Black Knob | 14.7 (.58) | 15.1 (.59) | | | | | | | | | | | | | | 4.8 (.188) |
| Medium | Knurled | 13.7 (.54) | 17.5 (.69) | 17.5 (.69) | 1.2 (.047) | 58.7 (2.31) | 29.4 (1.16) | 17.5 (.69) | 15.8 (.62) | 7.9 (.31) | 49.2 (1.94) | 24.6 (.97) | 19.6 (.77) | 3.5 (.136) | — | — | — |
| | Slotted | 11.9 (.47) | 3.2 (.13) | | | | | | | | | | | | | | |
| | Black Knob | 24.1 (.95) | 19.1 (.75) | | | | | | | | | | | | | | 6.4 (.250) |
| | Hex (4mm socket) | 11.9 (.47) | 3.2 (.13) | | | | | | | | | | | | | | — |
| | T-bar | 13.7 (.54) | 17.5 (.69) | | | | | | | | | | | | 50.8 (2.0) | 4.8 (.19) | |
| | Toolhead® Recess | 14.3 (.56) | 4.6 (.18) | | | | | | | | | | | | | | |
| Large | Knurled | 19.4 (.76) | 26.2 (1.03) | 25 (.98) | 1.9 (.075) | 88.9 (3.50) | 44.5 (1.75) | 26.2 (1.03) | 23.8 (.94) | 11.9 (.47) | 74.6 (2.94) | 37.3 (1.47) | 29 (1.14) | 5.2 (.203) | — | — | — |
| | Slotted | 19.1 (.75) | 4.8 (.19) | | | | | | | | | | | | | | |
| | Black Knob | 28.2 (1.11) | 21.6(.85) | | | | | | | | | | | | | | 7.9 (.313) |
| | Hex (8mm socket) | 19.1 (.75) | 4.8 (.19) | | | | | | | | | | | | | | — |
| | T-bar | 19.4 (.76) | 26.2 (1.03) | | | | | | | | | | | | 63.5 (2.5) | 6.4 (.25) | |

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## SPRING LATCH SERIES, PANEL PREPARATION

### PANEL PREPARATION (SEE TABLE)



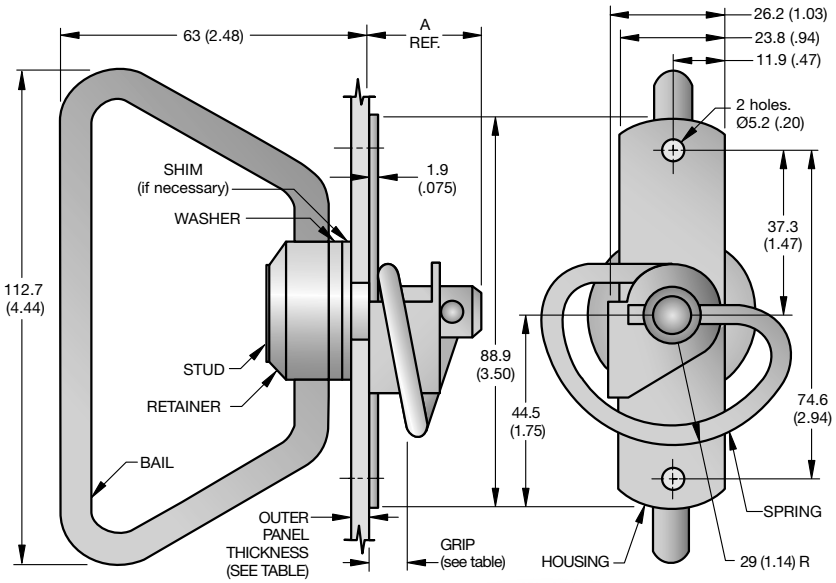

| SIZE | HEAD STYLE | DIMENSIONS | | | | |
|---|---|---|---|---|---|---|
| | | AA | BB ±0.1 (±.005) | CC ±0.1 (±.005) | Ø DD | Ø EE |
| Mini | All Styles | 5.6 (.22) | 22.2 (.875) | 11.1 (.438) | 2.7 (.106) | 7.2 (.283) |
| Small | All Styles | 8.7 (.34) | 33.3 (1.312) | 16.7 (.656) | 2.7 (.106) | 10.5 (.406) |
| Medium | Knurled | 12.7 (.50) | 49.2 (1.938) | 24.6 (.969) | 3.5 (.136) | 14.5 (.563) |
| | Slotted | | | | | 13 (.50) |
| | Black Knob | | | | | 16 (.625) |
| | Hex | | | | | 13 (.50) |
| | T-bar | | | | | 14.5 (.563) |
| | Toolhead® | | | | | 15.1 (.594) |
| Large | Black Knob | 19.1 (.75) | 74.6 (2.937) | 37.3 (1.469) | 5.2 (.20) | 21 (.812) |
| | Bail Handle | | | | | 12.5 (.484) |
| | All Other Styles | | | | | 20 (.781) |

## SPRING LATCH SERIES, BAIL HANDLE STYLE, LARGE SIZE

- **Easy gloved hand operation.**
- **See panel preparation instructions above.**



| GRIP MIN. | GRIP MAX. | A Ref. | MOUNT STYLE | PART NUMBERS |
|---|---|---|---|---|
| 24 (.09) | 14.3 (.56) | 25 (.98) | Rivet | 57-40-701-80 |
| | | | Weld | 57-40-702-85 |
| 12.7 (.50) | 24.6 (.97) | 35.3 (1.39) | Rivet | 57-40-704-80 |
| | | | Weld | 57-40-705-85 |
| 23.4 (.92) | 35.3 (1.39) | 46 (1.81) | Rivet | 57-40-707-80 |
| | | | Weld | 57-40-708-85 |



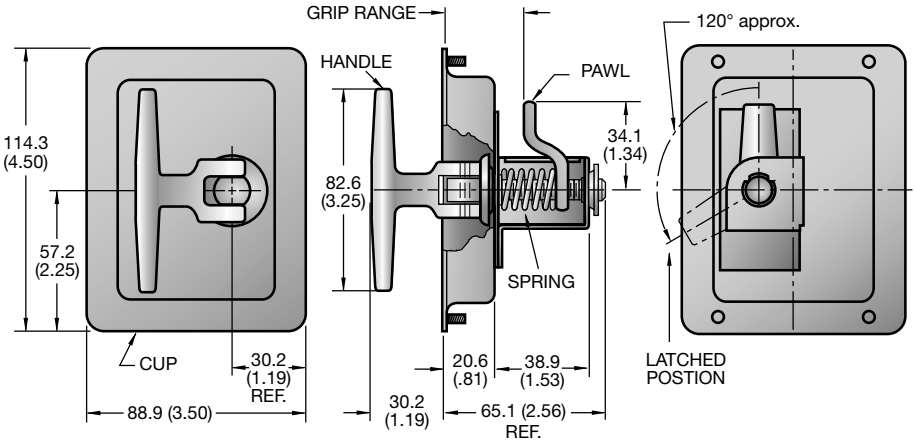

**For detailed material specifications and product strength guidelines.**

**www.clancey.com**

- **Turn T-handle 90˚ to latch or unlatch.**
- **An extra turn adjusts compression.**
- **Flush design.**
- **Stainless steel cup available.**

## FLUSH T-HANDLE SERIES, ADJUSTABLE COMPRESSION



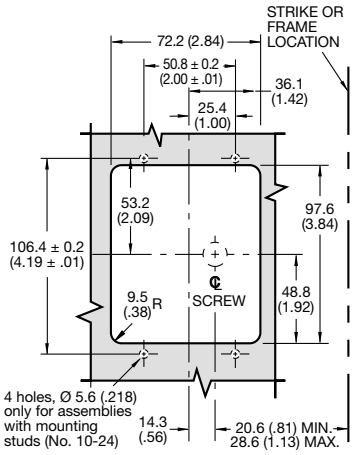



**For detailed material specifications and product strength guidelines.**

**www.clancey.com**

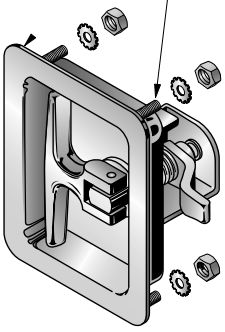
| GRIP RANGE | | PART NUMBERS | |
|---|---|---|---|
| MIN. | MAX. | CUP and HOUSING: Polished stainless steel. HANDLE: Die cast zinc, chrome plated. | CUP and HOUSING: Steel, DACROTIZED. HANDLE: Die cast zinc, DACROTIZED. |
| 19.1 (.75) | 37.3 (1.47) | **24-20-101-35** | **24-20-101-10** |
| 31.8 (1.25) | 50.2 (1.98) | **24-20-102-35** | **24-20-102-10** |
| 44.5 (1.75) | 61.9 (2.44) | **24-20-104-35** | **24-20-104-10** |

## PANEL PREPARATION




**No. 24 Flush Latches with mounting studs**
(mounting nuts and lockwashers supplied)

- 7.9 (.31) MAX. panel thickness
- Tightening torque of mounting nuts not to exceed 2.8 N•m or 25 in.-lbs.



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**CUSTOMER SERVICE**

**We strive to offer the finest customer service in any industry. If we can go the extra mile for you, let us know and we will do our best.**

EXPANDED RANGE

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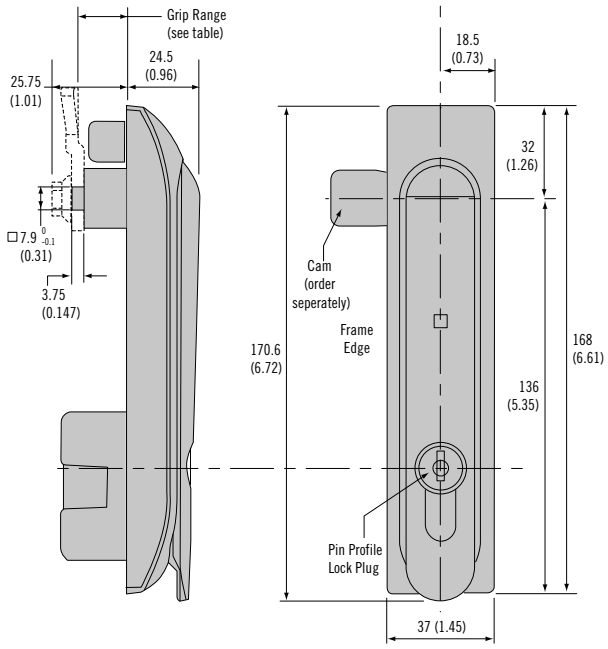
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## H3 SWINGHANDLE SYSTEM PLASTIC, LARGE, NON-SEALED

- **Lightweight Glass filled nylon swinghandle system.**
- **UL94-V0 rated.**
- **DIN profile locking options.**
- **Push or turn to close versions available.**



### H3 Plastic Swinghandle




### Material and Finish

Handle: Glass filled nylon
Cam: Steel, zinc plated

Performance Details

Max. static load: 250 N (56 lbf)

### Part Number Selection

For single point:
Order latch and cam separately

For multi-point order:
Latch and cam
Linear actuator and rod adaptors
Rods
Rod guides

### Note

*2 keys supplied

### Latch Part Number (no cam)

**T Style**
65 Push to close handle
66 Turn to close handle

**L Lock style**
21 Locking DIN profile keyed alike CH751*
22 Locking DIN profile keyed alike 300*
23 Locking DIN profile keyed alike 333*
70 DIN profile 3 mm Double-bit
71 DIN profile 5 mm Double-bit
72 DIN profile Bellcore 216
73 DIN Profile Bellcore Hex-Pin Recess
77 DIN profile 8 mm triangle

**H3 - T - 5 L - 0 7 1**

### Cam Part Number Table

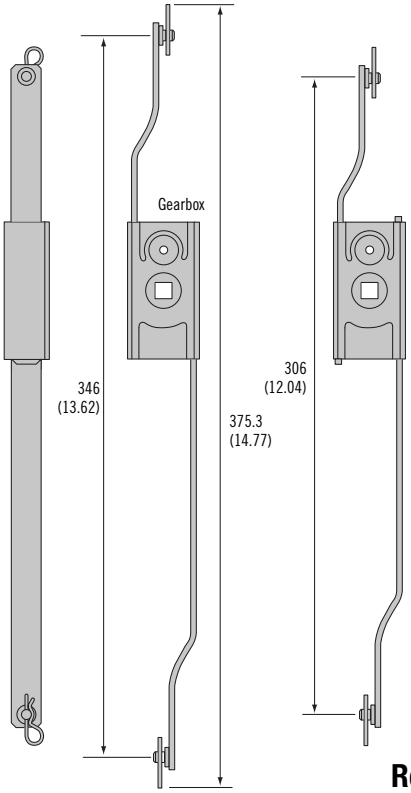
| GRIP | PART NO. (LENGTH = 38MM) | PART NO. (LENGTH = 45MM) |
|---|---|---|
| 15.5 | **E5-6710** | **E5-6110** |
| 17.5 | **E5-6711** | **E5-6111** |
| 19.5 | **E5-6712** | **E5-6112** |
| 21.5 | **E5-6713** | **E5-6113** |
| 23.5 | **E5-6714** | **E5-6114** |
| OTHER | Please contact Clancey | |

- **Linear actuator for Plastic H3 swinghandles**
- **Linear rod travel for limited space.**
- **Suitable for left and right hand applications.**
- **Left and Right hand Actuators can be disassembled and reassembled in the opposite hand if required.**

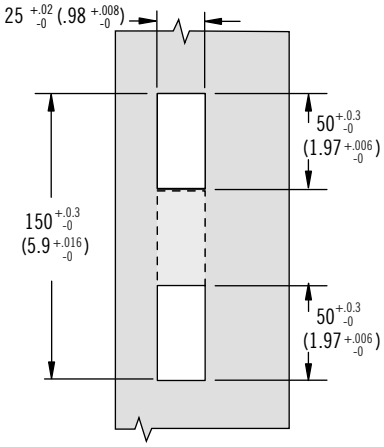
## H3 LINEAR ACTUATORS



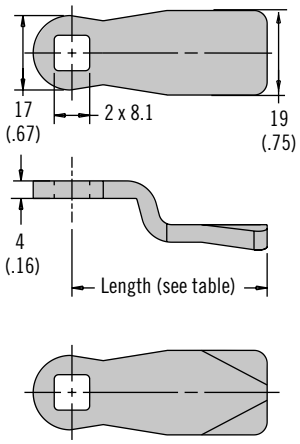
### Linear Actuator
### (Right Hand Mounting shown)




### Panel Preparation

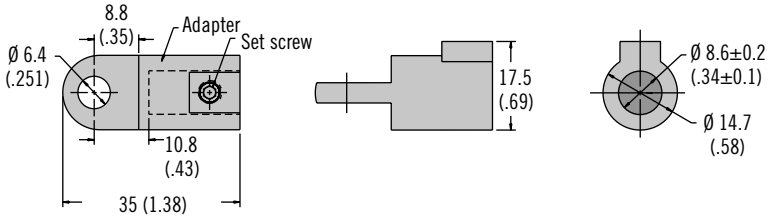



### Cam




### Closed Position  Open Position

### Rod Adaptor




| PART NUMBER | |
|---|---|
| Linear actuator right hand mounting | **H3-61-56-33** |
| Linear actuator left hand mounting | **H3-61-55-33** |
| Rod adaptor | **A5-92-201-31** |

### Part Number
Linear actuator and rod adaptors see table

For multi-point order: Latch
Cam (if 3 point latching required)
Linear actuator and rod adaptor (see table)

### Material and Finish
Zinc alloy and steel, zinc plated

To Select Linear actuator and Rod Adaptor:

For use with H3-65 and H3-66 swinghandles. Order linear actuator and rod adaptors separately (1 actuator and 2 adaptors required per latch)

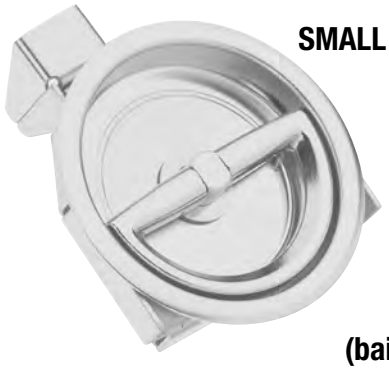
## FLUSH CUP SERIES

- **Flush design – minimal interior protrusion.**
- **Can be used for multi-point latching.**
- **Key locking version available.**
- **Bail handle available in mid-size.**

MULTI-POINT LATCHING

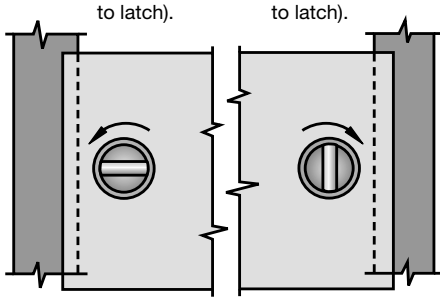


**SMALL**



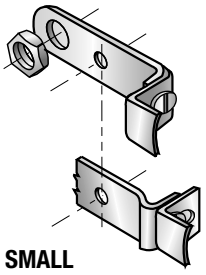
**MID-SIZE**

**(bail handle shown)**

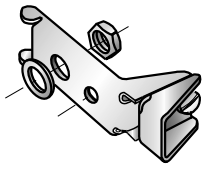



- Mounted on either TYPE A or B doors. Choose horizontal or vertical closed position of handle.

### PAWL ASSEMBLIES

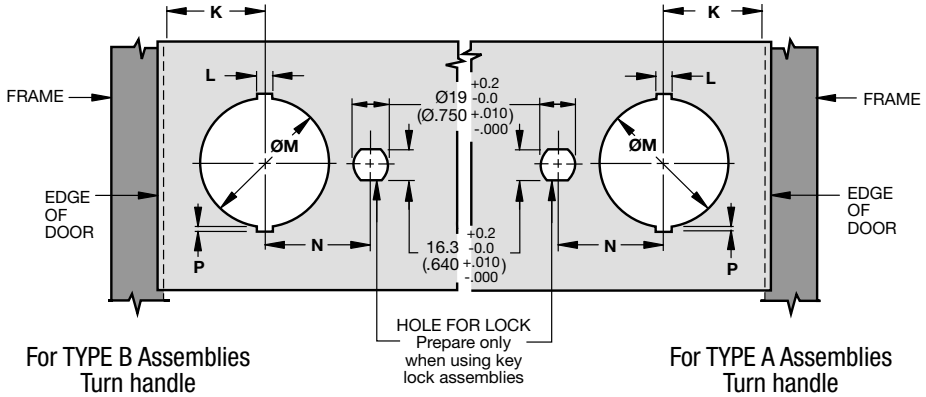


**SMALL**



**MID-SIZE**
(long grip shown)

### PANEL PREPARATION




For TYPE B Assemblies
Turn handle
counterclockwise to latch

For TYPE A Assemblies
Turn handle
clockwise to latch

**For detailed material specifications plus product installation instructions.**
**www.clancey.com**

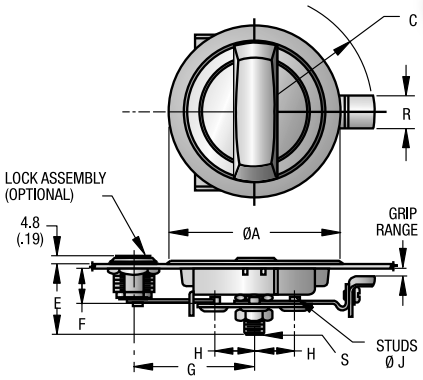
| SIZE | K | L (TYP.) | Ø M | N | P (TYP.) |
|---|---|---|---|---|---|
| SMALL | 33 ± 3.2 (1.31 ± .13) | 4.8 (.187) | 42.9 ± .40 (1.687 ± .015) | 46 ± 0.4 (1.812 ± .015) | 1.6 (.062) |
| MID-SIZED | 50.8 (2.00 ± .13) | 6.4 ± 0.1 (.250 ± .005) | 71.4 ± 0.4 (2.812 ± 0.15) | 57.2 ± 0.4 (2.250 ± .015) | 2.5 ± 0.2 (.10 ± .01) |

MULTI-POINT LATCHING CALL FOR ASSISTANCE

## FLUSH CUP SERIES

MULTI-POINT LATCHING

| LATCH SIZE | LATCH DIMENSIONS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | ØA | C Radius | E | F | G | H | ØJ | R | S (UNF) |
| **Small** | 49.2 (1.94) | 40 (1.57) | 34.1 (1.34) | 21.3 (.84) | 46 (1.81) | 12.7 (.50) | 3.18 (.125) | 15.9 (.63) | 1/4 - 28 |
| **Mid-size** Flush & Bail Handle | 82.6 (3.25) | 57.2 (2.25) | 38.9 (1.52) | 21.3 (.84) | 57.2 (2.25) | 19.1 (.75) | 4.75 (.187) | 22.1 (.87) | 3/8 - 24 |




| SIZE | GRIP RANGE | TYPE OF ASSEMBLY | Handle position when latched relative to edge of door | BRIGHT FINISH | | BLACK FINISH | |
|---|---|---|---|---|---|---|---|
| | | | | TYPE B Assemblies | TYPE A Assemblies | TYPE B Assemblies | TYPE A Assemblies |
| **Small** | 0-12.7 (.50) | Single or Three - Point | parallel | **01-10-401-10** | **01-10-402-10** | **01-10-401-65** | **01-10-402-65** |
| | | | perpendicular | **01-10-402-10** | **01-10-401-10** | **01-10-402-65** | **01-10-401-65** |
| **Mid-Size** | 0-12.7 (.50) | Single or Three - Point | parallel | **01-13-11** | **01-13-21** | **01-13-15** | **01-13-25** |
| | | | perpendicular | **01-13-21** | **01-13-11** | **01-13-25** | **01-13-15** |
| | | Single or Three-Point with lock* | parallel | **01-33-11** | **01-33-21** | **01-33-15** | **01-33-25** |
| | | | perpendicular | **01-33-21** | **01-33-11** | **01-33-25** | **01-33-15** |
| | 12.7 - 28.6 (.50) - (1.13) | Single or Three - Point | parallel | **01-13-31** | **01-13-41** | **01-13-35** | **01-13-45** |
| | | | perpendicular | **01-13-41** | **01-13-31** | **01-13-45** | **01-13-35** |
| | | Single or Three-Point with lock* | parallel | **01-33-31** | **01-33-41** | **01-33-35** | **01-33-45** |
| | | | perpendicular | **01-33-41** | **01-33-31** | **01-33-45** | **01-33-35** |
| | -------- | Two - Point | parallel | **01-13-51** | **01-13-61** | **01-13-55** | **01-13-65** |
| | | | perpendicular | **01-13-61** | **01-13-51** | **01-13-65** | **01-13-55** |
| | | Two - Point with lock | parallel | **01-33-51** | **01-33-61** | **01-33-55** | **01-33-65** |
| | | | perpendicular | **01-33-61** | **01-33-51** | **01-33-65** | **01-33-55** |

| SIZE | GRIP RANGE | TYPE OF ASSEMBLY | Handle position when latched relative to edge of door | TYPE B Assemblies | TYPE A Assemblies |
|---|---|---|---|---|---|
| **Mid-Size Bail Handle** | 0-12.7 (.50) | Single or Three - Point | parallel | **01-23-11** | **01-23-21** |
| | | | perpendicular | **01-23-21** | **01-23-11** |
| | | Single or Three-Point with lock* | parallel | **01-43-11** | **01-43-21** |
| | | | perpendicular | **01-43-21** | **01-43-11** |
| | 12.7 - 28.6 (.50) - (1.13) | Single or Three - Point | parallel | **01-23-31** | **01-23-41** |
| | | | perpendicular | **01-23-41** | **01-23-31** |
| | | Single or Three-Point with lock* | parallel | **01-43-31** | **01-43-41** |
| | | | perpendicular | **01-43-41** | **01-43-31** |
| | -------- | Two - Point | parallel | **01-23-51** | **01-23-61** |
| | | | perpendicular | **01-23-61** | **01-23-51** |
| | | Two - Point with lock | parallel | **01-43-51** | **01-43-61** |
| | | | perpendicular | **01-43-61** | **01-43-51** |

* Locks are keyed alike. Different key codes are available.
Pawl is not included with two-point assemblies.

CAD POWERED

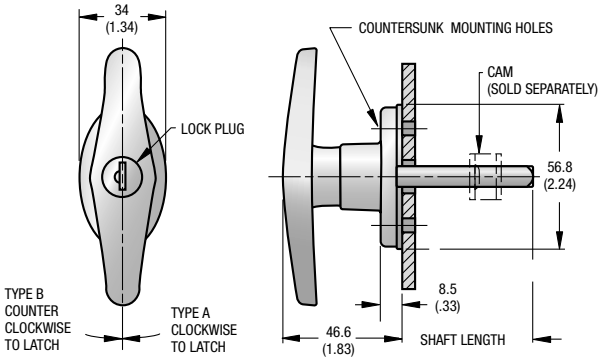
southco® AUTHORIZED DISTRIBUTOR

## T-HANDLE LATCH STANDARD

- **Outstanding pricing.**
- **Variety of shaft lengths & cams.**
- **Left or right hand actuation.**
- **Black or chrome finish.**

MULTI-POINT LATCHING



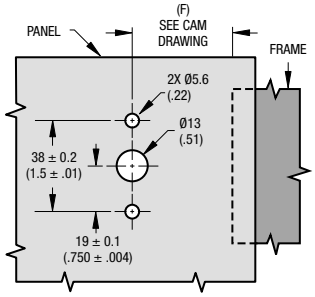



**NOTE: Order cam separately on page 39.**

| | SHAFT LENGTH | LOCKING PART NUMBER* | | NON-LOCKING PART NUMBER | |
|---|---|---|---|---|---|
| | | TYPE A | TYPE B | TYPE A | TYPE B |
| CHROME | 38.1 (1.50) | 92-50-113-10 | 92-50-213-10 | 92-50-103-10 | 92-50-203-10 |
| | 50.8 (2.00) | 92-50-114-10 | 92-50-214-10 | 92-50-104-10 | 92-50-204-10 |
| | 63.5 (2.50) | 92-50-115-10 | 92-50-215-10 | 92-50-105-10 | 92-50-205-10 |
| BLACK | 38.1 (1.50) | 92-50-113-50 | 92-50-213-50 | 92-50-103-50 | 92-50-203-50 |
| | 50.8 (2.00) | 92-50-114-50 | 92-50-214-50 | 92-50-104-50 | 92-50-204-50 |
| | 63.5 (2.50) | 92-50-115-50 | 92-50-215-50 | 92-50-105-50 | 92-50-205-50 |

Locking latches supplied w/2 keys

### PANEL PREPARATION



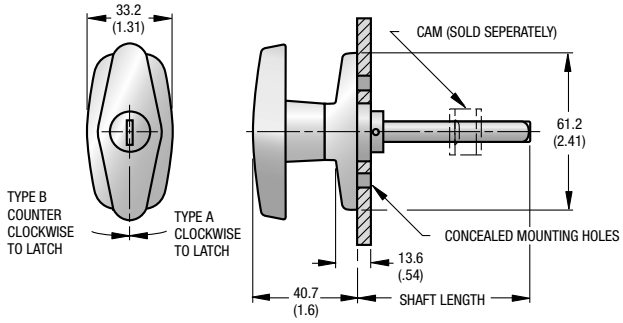

Install latch from front of panel with M5 or No. 10 screws.

## T-HANDLE LATCH COMPACT

- **Concealed mounting hardware.**
- **Compact design.**

MULTI-POINT LATCHING



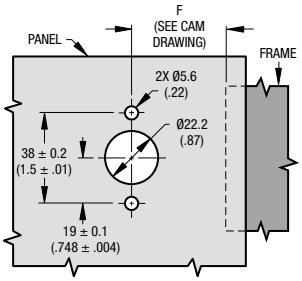



**NOTE: Order cam separately on page 39.**

| | SHAFT LENGTH | LOCKING PART NUMBER* | | NON-LOCKING PART NUMBER | |
|---|---|---|---|---|---|
| | | TYPE A | TYPE B | TYPE A | TYPE B |
| CHROME | 38.1 (1.50) | 92-61-113-10 | 92-61-213-10 | 92-61-103-10 | 92-61-203-10 |
| | 50.8 (2.00) | 92-61-114-10 | 92-61-214-10 | 92-61-104-10 | 92-61-204-10 |
| | 63.5 (2.50) | 92-61-115-10 | 92-61-215-10 | 92-61-105-10 | 92-61-205-10 |
| BLACK | 38.1 (1.50) | 92-61-113-50 | 92-61-213-50 | 92-61-103-50 | 92-61-203-50 |
| | 50.8 (2.00) | 92-61-114-50 | 92-61-214-50 | 92-61-104-50 | 92-61-204-50 |
| | 63.5 (2.50) | 92-61-115-50 | 92-61-215-50 | 92-61-105-50 | 92-61-205-50 |

Locking latches supplied w/2 keys

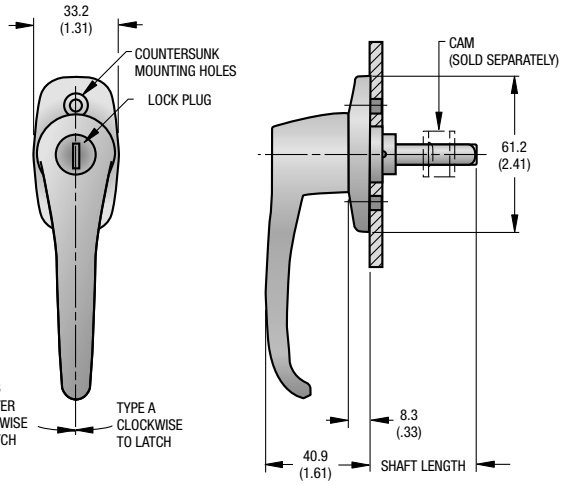
### PANEL PREPARATION




Install with 8-32 screws from the back of the panel.

- **Outstanding pricing.**
- **Variety of shaft lengths & cams.**
- **Left or right hand actuation.**
- **Black or chrome finish.**

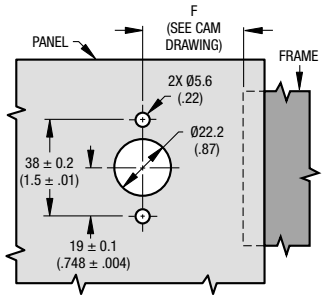
## L-HANDLE LATCH STANDARD







### PANEL PREPARATION



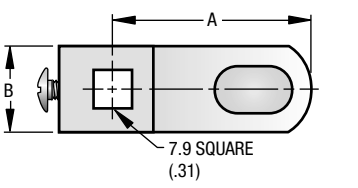

Install latch from front of panel with M5 or No. 10 screws.

**NOTE: Order cam separately on page 39.**

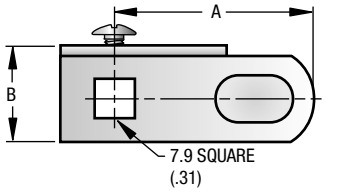
| | SHAFT LENGTH | LOCKING PART NUMBER* | | NON-LOCKING PART NUMBER | |
|---|---|---|---|---|---|
| | | TYPE A | TYPE B | TYPE A | TYPE B |
| CHROME | 38.1 (1.50) | 92-70-113-10 | 92-70-213-10 | 92-70-103-10 | 92-70-203-10 |
| | 50.8 (2.00) | 92-70-114-10 | 92-70-214-10 | 92-70-104-10 | 92-70-204-10 |
| | 63.5 (2.50) | 92-70-115-10 | 92-70-215-10 | 92-70-105-10 | 92-70-205-10 |
| BLACK | 38.1 (1.50) | 92-70-113-50 | 92-70-213-50 | 92-70-103-50 | 92-70-203-50 |
| | 50.8 (2.00) | 92-70-114-50 | 92-70-214-50 | 92-70-104-50 | 92-70-204-50 |
| | 63.5 (2.50) | 92-70-115-50 | 92-70-215-50 | 92-70-105-50 | 92-70-205-50 |

Locking latches supplied w/2 keys

## CAMS FOR T- AND L-HANDLE LATCHES




REVERSED CAM 92-24-212-12




STANDARD CAM

**For detailed material specifications plus product installation instructions.**
**www.clancey.com**

| A | B | C | D | E | F FRAME LOCATION* | PART NUMBER |
|---|---|---|---|---|---|---|
| 41.3 (1.63) | 19 (.75) | 10.9 (.43) | 3.6 (.14) | 50.8 (2.0) | 28.6 (1.13) | 92-24-202-12 |
| 50.8 (2.0) | 19 (.75) | 10.9 (.43) | 3.6 (.14) | 60.9 (2.4) | 38.1 (1.50 | 92-24-203-12 |
| 60.3 (2.38) | 19 (.75) | 10.9 (.43) | 3.2 (.13) | 69.9 (2.75) | 47.6 (1.88) | 92-24-204-12 |
| 41.3 (1.63) | 15.9 (.63) | 12.3 (.48) | 3.6 (.14) | 52.4 (2.05) | 28.6 (1.13) | 92-24-212-12 |

*** See panel preparation**

CAD POWERED

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## T- AND L-HANDLE STYLE

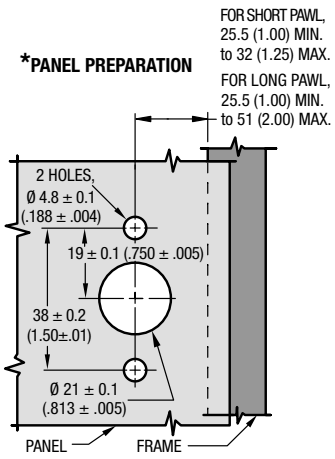
- **Detents in full open or closed position.**
- **Can be used for multi-point latching.**
- **Ergonomic, comfortable feel.**
- **Non-locking versions are NSF recognized.**

MULTI-POINT LATCHING

NSF

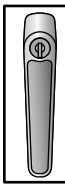
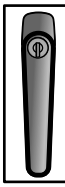


### PANEL PREPARATION

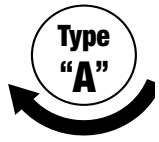



**For detailed material specifications plus product installation instructions.**

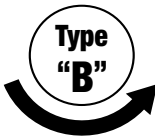
**www.clancey.com**

| HANDLE | STYLE | L | GRIP RANGE | | ASSEMBLY PART NUMBERS (Short Pawl)* | |
|---|---|---|---|---|---|---|
| | | | MIN. | MAX. | Type "A" | Type "B" |
| **T HANDLE STYLE** | **Bright chrome** | | | | | |
|  | With Lock | 32 (1.25) | 16 (.63) | 19 (.75) | **92-21-111** | **92-22-111** |
| | | 44.5 (1.75) | 16 (.63) | 32 (1.25) | **92-21-121** | **92-22-121** |
| | | 57.5 (2.25) | 16 (.63) | 44.5 (1.75) | **92-21-131** | **92-22-131** |
| | Without Lock | 32 (1.25) | 16 (.63) | 19 (.75) | **92-11-111** | **92-12-111** |
| | | 44.5 (1.75) | 16 (.63) | 32 (1.25) | **92-11-121** | **92-12-121** |
| | | 57.5 (2.25) | 16 (.63) | 44.5 (1.75) | **92-11-131** | **92-12-131** |
| **T HANDLE STYLE** | **Black powder coated** | | | | | |
|  | With Lock | 32 (1.25) | 16 (.63) | 19 (.75) | **92-21-511** | **92-22-511** |
| | | 44.5 (1.75) | 16 (.63) | 32 (1.25) | **92-21-521** | **92-22-521** |
| | | 57.5 (2.25) | 16 (.63) | 44.5 (1.75) | **92-21-531** | **92-22-531** |
| | Without Lock | 32 (1.25) | 16 (.63) | 19 (.75) | **92-11-511** | **92-12-511** |
| | | 44.5 (1.75) | 16 (.63) | 32 (1.25) | **92-11-521** | **92-12-521** |
| | | 57.5 (2.25) | 16 (.63) | 44.5 (1.75) | **92-11-531** | **92-12-531** |
| **L HANDLE STYLE** | **Bright chrome** | | | | | |
|  | With Lock | 32 (1.25) | 16 (.63) | 19 (.75) | **92-41-111** | **92-42-111** |
| | | 44.5 (1.75) | 16 (.63) | 32 (1.25) | **92-41-121** | **92-42-121** |
| | | 57.5 (2.25) | 16 (.63) | 44.5 (1.75) | **92-41-131** | **92-42-131** |
| | Without Lock | 32 (1.25) | 16 (.63) | 19 (.75) | **92-31-111** | **92-32-111** |
| | | 44.5 (1.75) | 16 (.63) | 32 (1.25) | **92-31-121** | **92-32-121** |
| | | 57.5 (2.25) | 16 (.63) | 44.5 (1.75) | **92-31-131** | **92-32-131** |
| **L HANDLE STYLE** | **Black powder coated** | | | | | |
|  | With Lock | 32 (1.25) | 16 (.63) | 19 (.75) | **92-41-511** | **92-42-511** |
| | | 44.5 (1.75) | 16 (.63) | 32 (1.25) | **92-41-521** | **92-42-521** |
| | | 57.5 (2.25) | 16 (.63) | 44.5 (1.75) | **92-41-531** | **92-42-531** |
| | Without Lock | 32 (1.25) | 16 (.63) | 19 (.75) | **92-31-511** | **92-32-511** |
| | | 44.5 (1.75) | 16 (.63) | 32 (1.25) | **92-31-521** | **92-32-521** |
| | | 57.5 (2.25) | 16 (.63) | 44.5 (1.75) | **92-31-531** | **92-32-531** |

NSF Non-locking only.



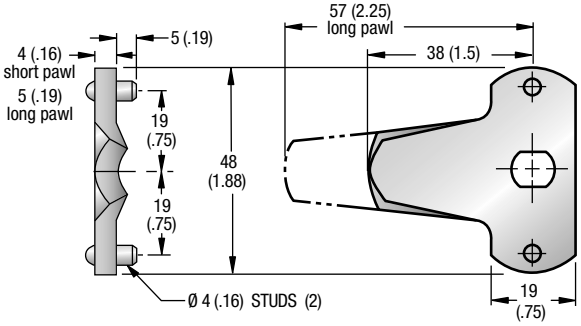

Turn clockwise to latch.



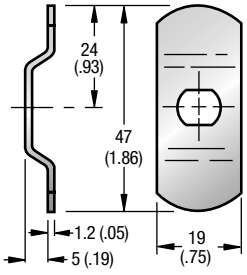

Turn counterclockwise to latch.

* Latch Assembly part numbers shown are supplied with a short pawl. To order latches with a long pawl, as shown below, change last digit of part number to a 2.
**Example :** 92-21-11**2**

**PAWL**




**RETAINER PLATE FOR MULTI-POINT SYSTEMS**

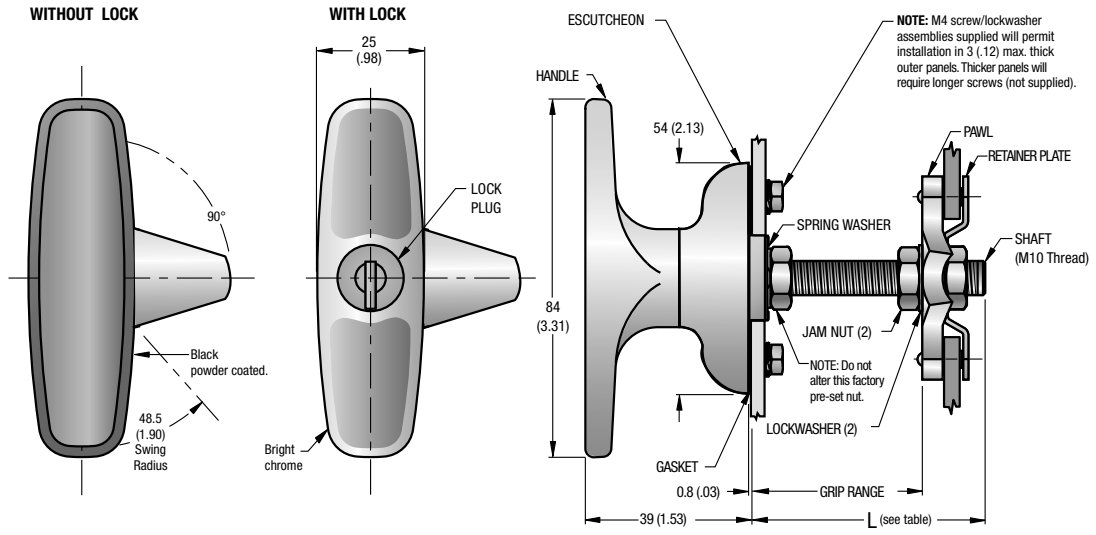


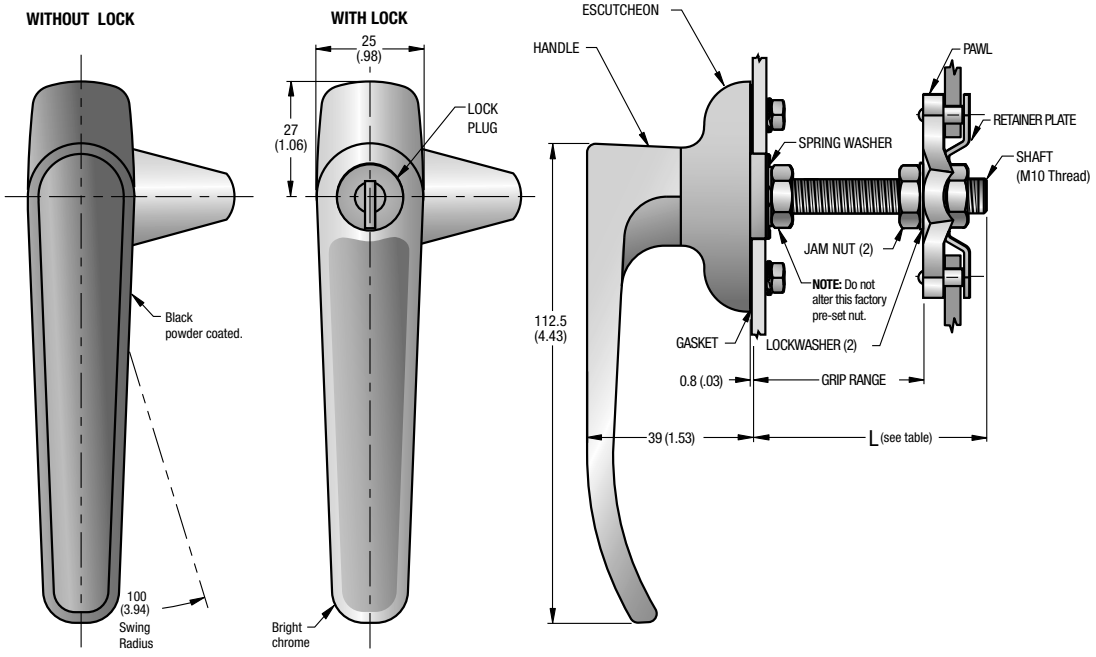
- **Long pawl available.**
- **Key locking version available.**
- **Smooth surfaces free of sharp edges.**

## T- AND L-HANDLE STYLE

MULTI-POINT LATCHING

NSF



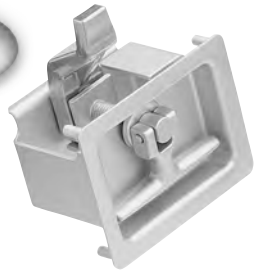



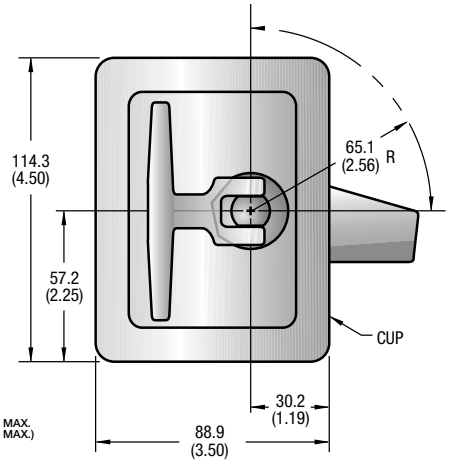
## FLUSH T-HANDLE SERIES, HEAVY DUTY STYLE

- **Flush design: T-handle folds away.**
- **Adjustable grip style allows for adjustment in the amount of compression.**
- **Fixed grip style provides consistent compression.**

NSF

MULTI-POINT LATCHING

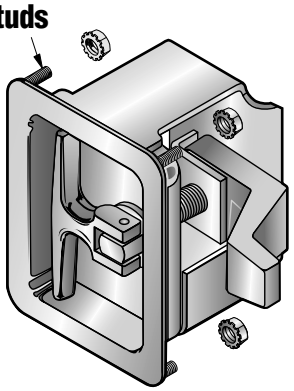




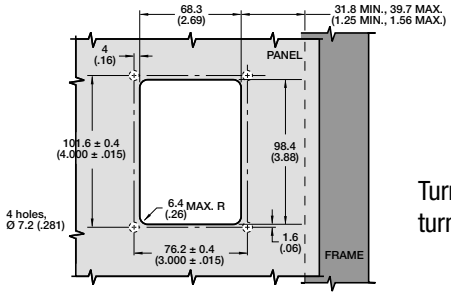

### No. 24 Heavy Duty Flush Latches with mounting studs

(nut/lockwasher assemblies supplied)

- 9.5 (.38) MAX. panel thickness
- Tightening torque of mounting nuts not to exceed 8.5 N•m or 75 in.-lbs.

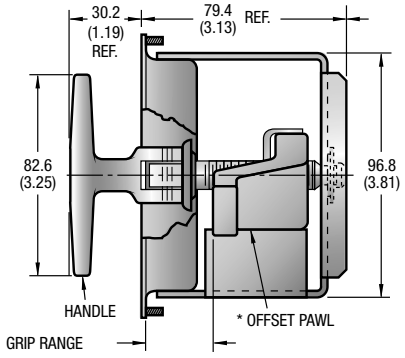


### PANEL PREPARATION



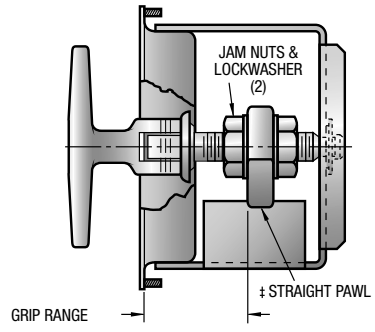

### COMPRESSION VERSION ADJUSTABLE-GRIP

Turn handle 90° to latch/unlatch. Additional turns to pull up tighter, compress a gasket.




### FIXED GRIP

Loosen jam nuts to adjust pawl to exact grip. Tighten jam nuts to lock pawl in position.




**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

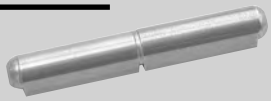
### ADJUSTABLE-GRIP COMPRESSION VERSION

| GRIP RANGE | | PART NUMBERS |
|---|---|---|
| MIN. | MAX. | WITH MOUNTING STUDS |
| 19 (.75) | 28.6 (1.13) | **24-20-601-10** |
| 28.6 (1.13) | 58.7 (2.31) | **24-20-602-10** |

### FIXED GRIP

| GRIP RANGE | | PART NUMBERS |
|---|---|---|
| MIN. | MAX. | WITH MOUNTING STUDS |
| 17.5 (.69) | 20.6 (.81) | **24-20-621-10** |
| 31.8 (1.25) | 49.2 (1.94) | **24-20-622-10** |
| 59.5 (2.34) | 62 (2.44) | **24-20-623-10** |

### WELD-ON HINGES



**Ideal for heavy duty applications.**
**See our offerings on pages 159-160.**

- **Flush design: T-handle folds away.**
- **Welded or mounting stud installation.**
- **Can be used for multi-point latching.**
- **Key locking version available.**
- **Polished stainless steel cup available.**

## FLUSH T-HANDLE SERIES, FIXED-GRIP STYLE

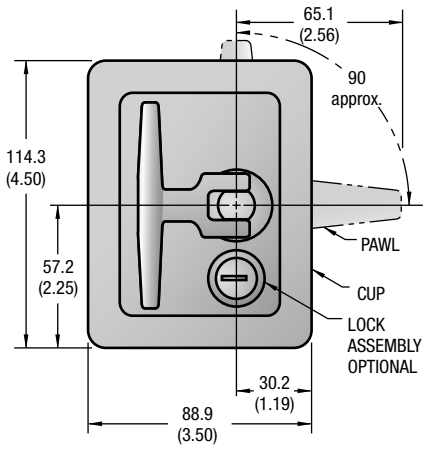


STAINLESS STEEL AVAILABLE

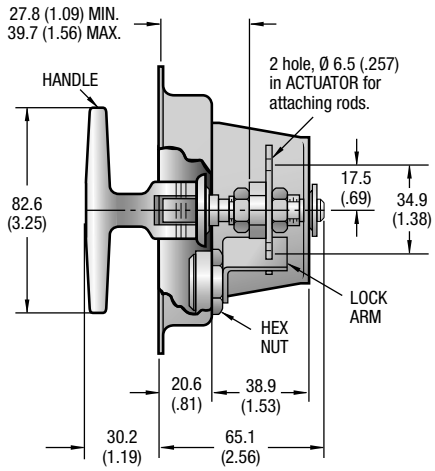
MULTI-POINT LATCHING

NSF

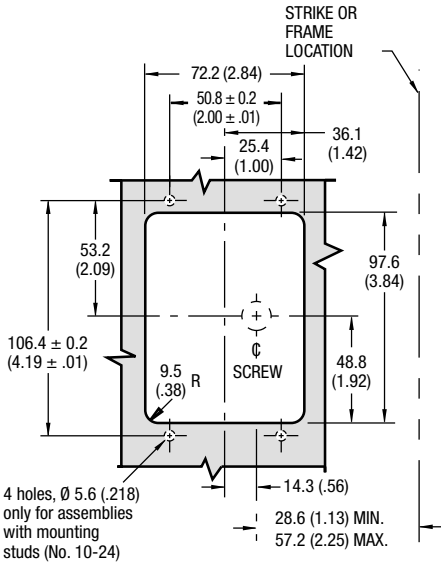
### TYPE A Assembly (illustrated)




### GRIP RANGE




### PANEL PREPARATION




| STYLE | PART NUMBERS | | | | | |
|---|---|---|---|---|---|---|
| | WITH MOUNTING STUDS | | | | WELD | |
| | CUP and BRACKET: Polished stainless steel. HANDLE: Die cast zinc, chrome plated. | | CUP and BRACKET: Steel, DACROTIZED. HANDLE: Die cast zinc, DACROTIZED. | | CUP and BRACKET: Steel, DACROTIZED. HANDLE: Die cast zinc, DACROTIZED. | |
| | TYPE A | TYPE B | TYPE A | TYPE B | TYPE A | TYPE B |
| WITH KEYLOCK (keyed alike)* | 24-20-812-35 | 24-20-912-35 | 24-20-812-10 | 24-20-912-10 | 24-10-812-10 | 24-10-912-10 |
| WITHOUT KEYLOCK | 24-20-302-35 | 24-20-402-35 | 24-20-302-10 | 24-20-402-10 | 24-10-302-10 | 24-10-402-10 |

| WITHOUT KEYLOCK | DUST AND MOISTURE SEALED (Neoprene gasketed shaft and cup flange) | | | |
|---|---|---|---|---|
| | 24-20-312-35 | 24-20-412-35 | 24-20-312-10 | 24-20-412-10 |

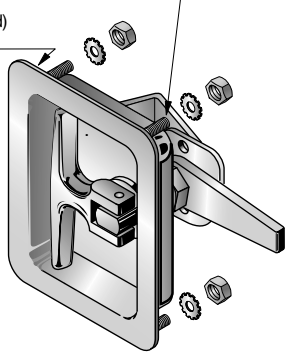
NSF Non-locking only

*Locks are keyed alike. Different key codes are available.

TYPE A Assemblies turn clockwise to latch. TYPE B Assemblies turn counterclockwise to latch.

**No. 24 Flush Latches with mounting studs**
(mounting nuts and lockwashers supplied)

**FLANGE GASKET OPTIONAL**



- 7.9 (.31) MAX. panel thickness
- Tightening torque of mounting nuts not to exceed 2.8 N•m or 25 in.-lbs.

MULTI-POINT LATCHING
CALL FOR ASSISTANCE

For detailed material specifications plus product installation instructions.
**www.clancey.com**

## T-HANDLE SERIES

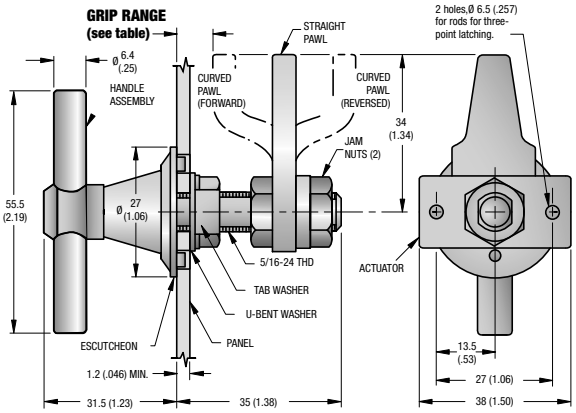
- **Restricted 90˚ rotation.**
- **Can be used for multi-point latching.**
- **3 sizes.**

MULTI-POINT LATCHING



### SMALL SIZE

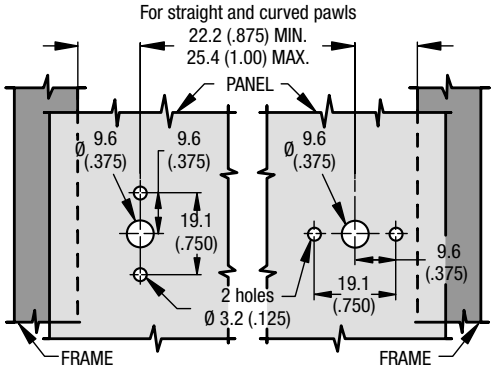
| GRIP RANGE | | PART NUMBERS | |
|---|---|---|---|
| | | Handle Assembly Finish | |
| MIN. | MAX. | Chemical Protective Film | Chrome Palted |
| 0 | 12.7 (.50) | **68-50-301-10** | **68-50-301-20** |
| 12.7 (.50) | 25.4 (1.00) | **68-50-302-10** | **68-50-302-20** |
| 25.4 (1.00) | 38 (1.50) | **68-50-301-10** | **68-50-301-20** |




### PANEL PREPARATION

**Type "B" Operation**
Turn handle counterclockwise to latch.

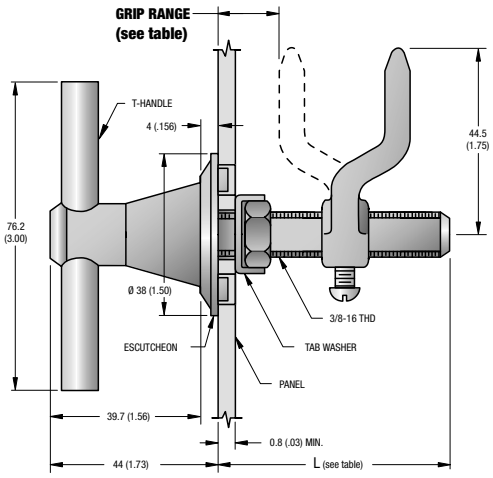
**Type "A" Operation**
Turn handle clockwise to latch.



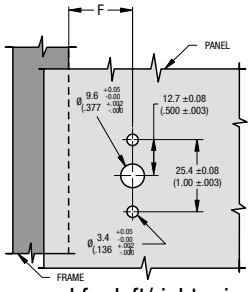

### MEDIUM SIZE

| GRIP RANGE | | L | F | PART NUMBERS | |
|---|---|---|---|---|---|
| | | | | Handle Assembly Finish | |
| MIN. | MAX. | | | Zinc plate, bright chromate | Chrome Plated |
| 3.2 (.13) | 25.4 (1.00) | 46.4 (1.83) | 31.8 ±3.2 (1.25 ±.13) | **68-10-101-10*** | **68-10-101-20*** |
| 25.4 (1.00) | 50.8 (2.00) | | | | |

* The same assembly is supplied for both long and short grips.
Short grip curves toward panel. Reverse pawl for short grip.



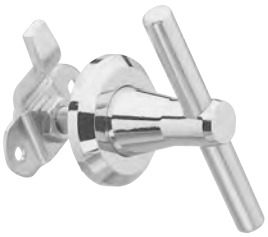

### PANEL PREPARATION

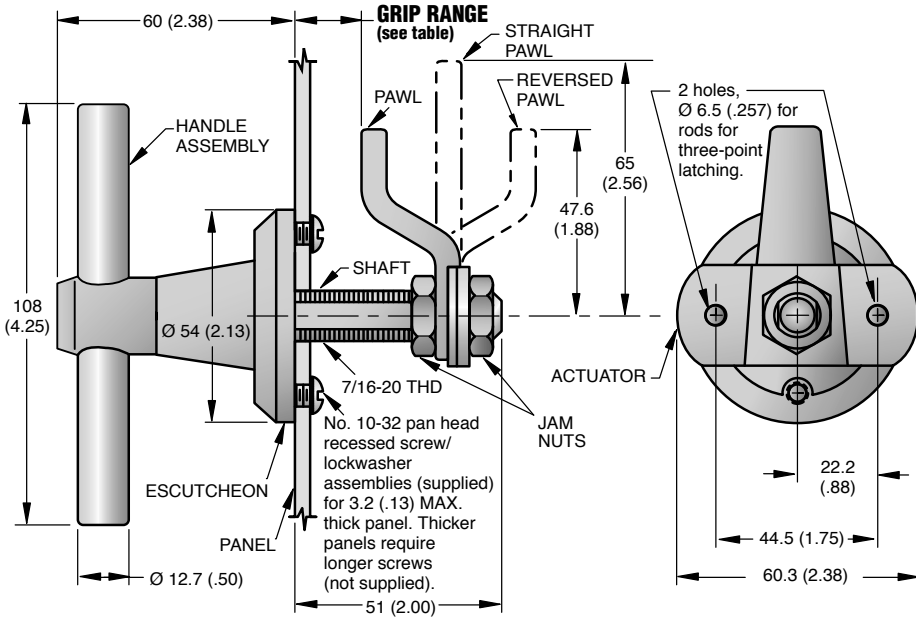



Reverse pawl for left/right orientation

MULTI-POINT LATCHING CALL FOR ASSISTANCE

## T-HANDLE SERIES, LARGE SIZE

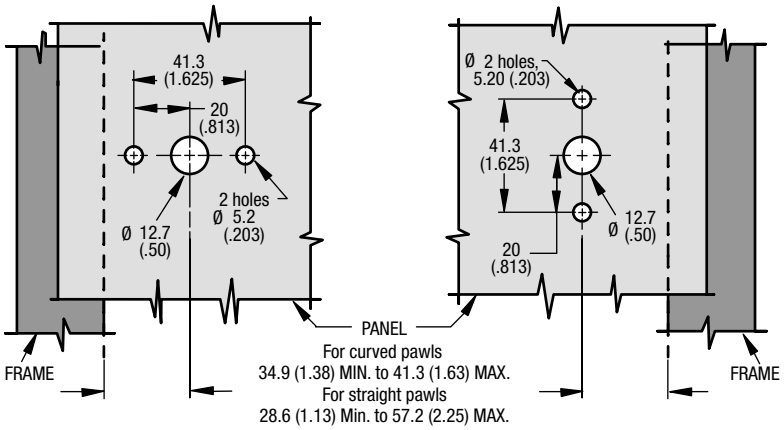





### PANEL PREPARATION

**Type "B" Operation**
Turn handle counterclockwise to latch.

**Type "A" Operation**
Turn handle clockwise to latch.




| GRIP RANGE | | PART NUMBERS | |
|---|---|---|---|
| | | Handle Assembly finish | |
| MIN. | MAX. | Chemical Protective Film | Chrome Plated |
| 0 | 19 (.75) | 68-70-301-10 | 68-70-301-20 |
| 6.4 (.25) | 38 (1.50) | 68-70-302-10 | 68-70-302-20 |
| 25.4 (1.00) | 57 (2.25) | 68-70-301-10 | 68-70-301-20 |

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**For detailed material specifications plus product installation instructions.**
**www.clancey.com**

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## BAIL-HANDLE SERIES

- Restricted 90˚ rotation.
- Detents hold handle in open and stored positions.
- Clockwise or counterclockwise operation.

MULTI-POINT LATCHING

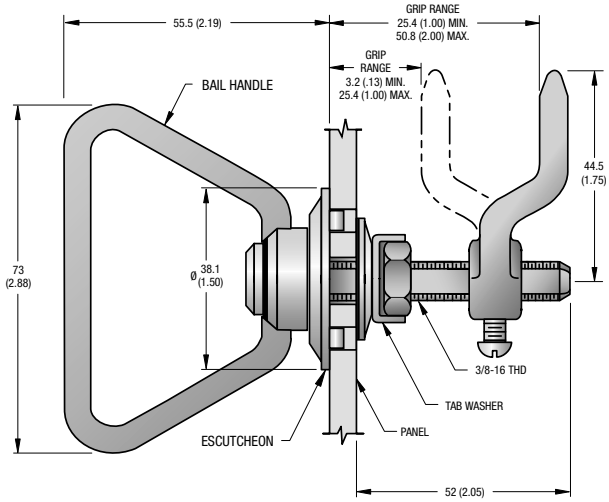
### MEDIUM SIZE

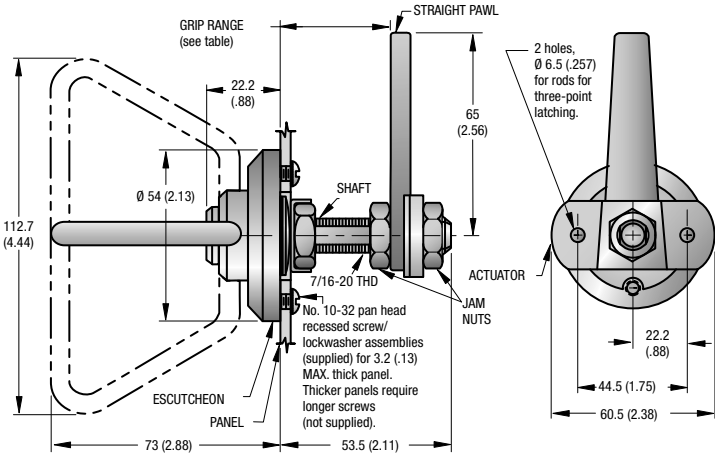
| PART NUMBERS | |
|---|---|
| Handle Assembly finish | |
| Zinc Plate Bright Chromate | Chrome Plated |
| 68-20-101-10 | 68-20-101-20 |



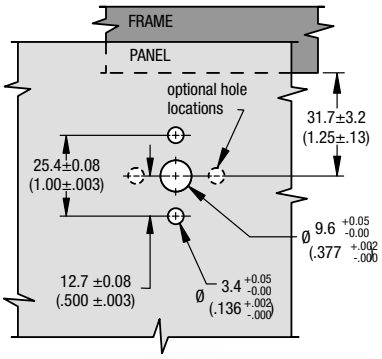
### LARGE SIZE

| GRIP RANGE | | PART NUMBERS | |
|---|---|---|---|
| | | Handle Assembly finish | |
| MIN. | MAX. | Zinc Plate Bright Chromate | Chrome Plated |
| 16 (.63) | 36.5 (1.44) | 68-80-302-10 | 68-80-302-20 |



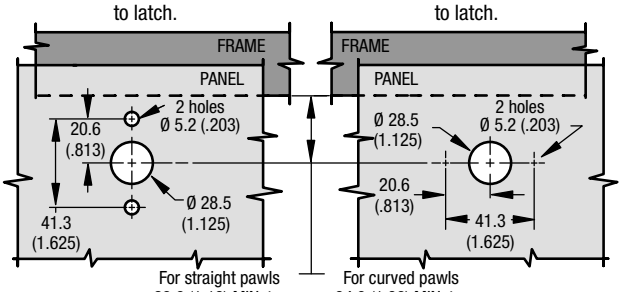

### PANEL PREPARATION




### PANEL PREPARATION

**Type "B" Operation**
Turn bail handle counterclockwise to latch.

**Type "A" Operation**
Turn bail handle clockwise to latch.




For straight pawls 28.6 (1.13) MIN. to 57.2 (2.25) MAX.

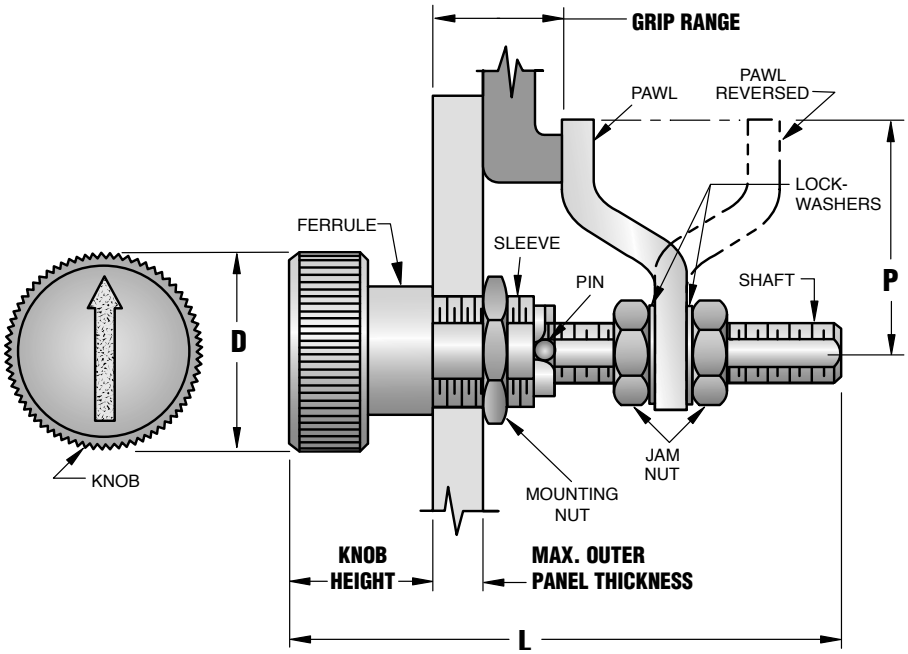
For curved pawls 34.9 (1.38) MIN. to 41.3 (1.63) MAX.

For detailed material specifications plus product installation instructions.
www.clancey.com

MULTI-POINT LATCHING
CALL FOR ASSISTANCE

- **Detents in full open and closed position.**
- **Turn clockwise or counterclockwise to operate.**
- **Distinctive "click" upon engagement.**
- **Arrow acts as a pawl indicator.**
- **3 sizes.**

## ARROWHEAD DESIGN



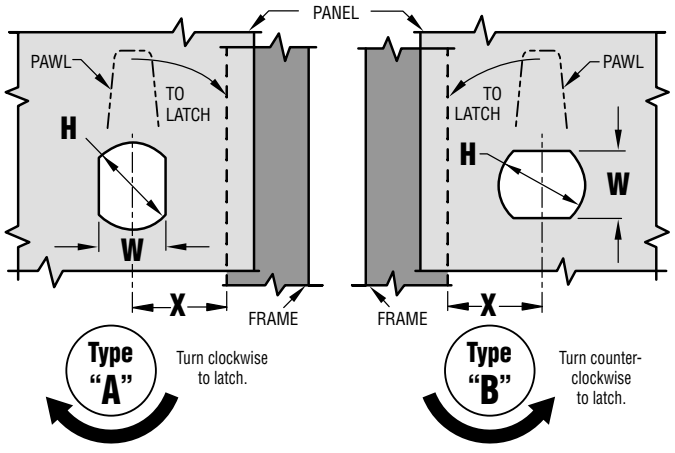



**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

| DIMENSIONS | | | KNOB HEIGHT | Max. Outer Panel Thickness | GRIP RANGE | | | | PART NUMBERS | Series | INSTALLATION | | | | shaft thread size |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Pawl as shown | | Pawl reversed | | | | H 0.13 (0.05) | W +0.13 -0.00 (+.005 -0.00) | X | | |
| ØD | L | P | | | MIN. | MAX. | MIN. | MAX. | | | | | MIN. | MAX. | |
| 12.7 (0.50) | 39.3 (1.55) | 13.5 (0.53) | 12.7 (.50) MAX. | 1.59 (.063) | 4 (.16) | 13.4 (.53) | 15 (.59) | 24.6 (.97) | 69-10-301-11 | 300 | 8.33 (.328) | 6.99 (.275) | 9.53 (.375) | 11.11 (.438) | 6-32 UNC |
| | | | 9.5( .38) MIN. | 4.75 (.188) | 7.1 (.28) | 18.3 (.72) | 18.3 (.72) | 28.2 (1.11) | | | | | | | |
| 19.1 (0.75) | 47.6 (1.88) | 15.9 (.63) | 17.5 (.69) MAX. | 1.59 (.063) | 3.2 (.13) | 15.9 (.63) | 15.9 (.63) | 28.6 (1.13) | 69-10-401-11 | 400 | 11.51 (.453) | 9.78 (.385) | 12.30 (.484) | 13.10 (.516) | 10-32 UNF |
| | | | 12.7 (.50) MIN. | 6.35 (.250) | 7.9 (.31) | 20.6 (.81) | 20.6 (.81) | 33.3 (1.31) | | | | | | | |
| 28.6 (1.13) | 79.8 (3.14) | 34.1 (1.34) | 25.4 (1.00) MAX. | 6.35 (.250) | 4.8 (.19) | 30.2 (1.19) | 30.2 (1.19) | 55.6 (2.19) | 69-10-501-11 | 500 | 16.26 (.640) | 13.72 (.540) | 22.23 (.875) | 25.40 (1.000) | 5/16-24 UNF |
| | | | 19.1 (.75) MIN. | 12.70 (.500) | 11.1 (.44) | 36.5 (1.44) | 36.5 (1.44) | 61.9 (2.44) | | | | | | | |

### PANEL PREPARATION



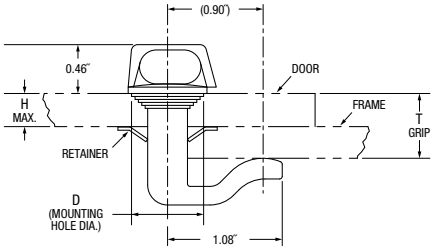

## SAMPLES

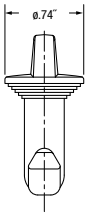
**We are happy to provide samples for evaluation in your application. We want to be on your prototype, so we can have our part on your final design.**

## KNOB STYLE CAM LATCH

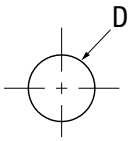


- **Outstanding value- low installed cost.**
- **Grip adjusts by changing mounting hole diameter.**
- **Can be used in thick panels.**




### PANEL PREPARATION

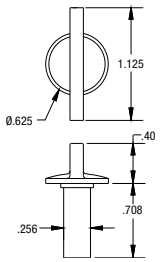
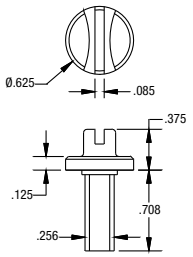
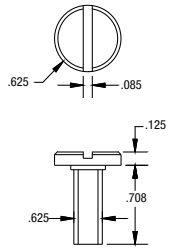



| Grip Range | | Maximum Outer Panel Thickness "H" | Part Number | Panel Preparation Diameter "D" |
|---|---|---|---|---|
| Min. | Max. | | | |
| .050" | .090" | .050" | HP-L3-1-1 | .490" |
| .090" | .125" | .065" | | .555" |
| .125" | .160" | .095" | | .615" |
| .160" | .200" | .125" | | .680" |
| .200" | .240" | .125" | HP-L3-2-1 | .430" |
| .230" | .270" | .188" | | .490" |
| .260" | .300" | .218" | | .555" |
| .290" | .330" | .250" | | .615" |
| .320" | .360" | .281" | | .680" |
| .360" | .400" | .125" | HP-L3-3-1 | .430" |
| .390" | .430" | .188" | | .490" |
| .420" | .460" | .218" | | .555" |
| .450" | .490" | .250" | | .615" |
| .480" | .525" | .281" | | .680" |
| .525" | .580" | .125" | HP-L3-4-1 | .430" |
| .570" | .610" | .188" | | .490" |
| .600" | .640" | .218" | | .555" |
| .630" | .670" | .250" | | .615" |
| .660" | .700" | .281" | | .680" |

## COMPOSITE CAM LATCH



- **3 head styles.**
- **Low installed cost.**
- **Basic quarter turn operation.**

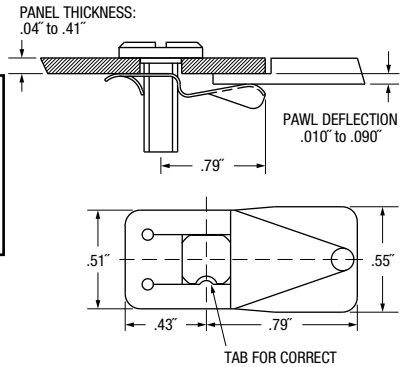
| PART NUMBER | | |
|---|---|---|
| LP-137-1W | LP-137-1K | LP-137-1 |
|  |  |  |
| WING HEAD | SLOTTED KNOB | SLOTTED HEAD |



### FASTENER SELECTION AND INSTALLATION

1. Choose a head style with part number from table above.
2. Cam is ordered separately per table below.

**IMPORTANT NOTE:**
If panel thickness exceeds grip by .125" (3 mm) you must use a cam spacer (order separately) below.



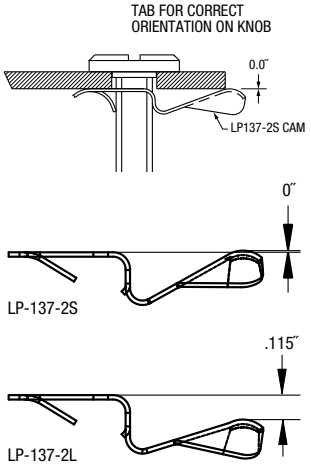

### CAM



| OFFSET | CAM P/N |
|---|---|
| 0.00" | LP-137-25 |
| .115" | LP-137-2L |

| CAM SPACER P/N |
|---|
| LP-137-3 |

NOTE: Cam spacer not shown.



## WING KNOB CAM LATCH

- **Ergonomic wing head yields easy turn and grip.**
- **Available with or without key lock.**
- **Suitable for NEMA 4 applications.**
- **Can be used in multi-point applications.**

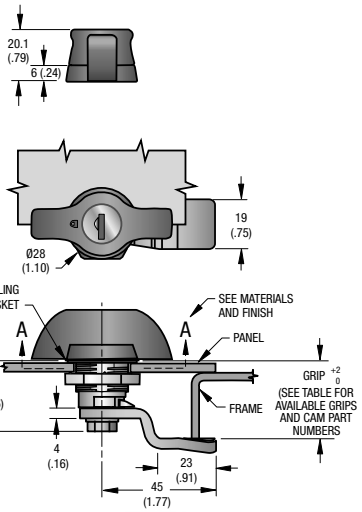
**ORDERING INSTRUCTIONS:**

❶ **Order head style with preferred locking option (see below).**

❷ **Proceed to step ❷ on page 79 to order cam.**

| HEAD STYLE | LOCKING OPTION | PART NUMBER |
|---|---|---|
|  | Non-locking | E5-9-305-UU1 |
|  | Key-locking black lock plug | E5-9-315-UU1 |
|  | Key-locking reversible key stainless steel lock plug | E5-9-325-UU1 |

* 1 overmolded key supplied w/ each locking head style.

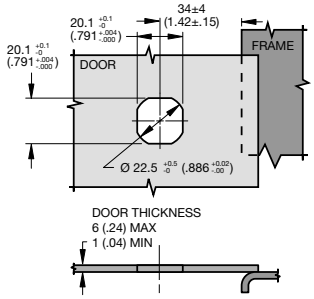





NEMA 4

MULTI-POINT LATCHING

**PANEL PREPARATION**




**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

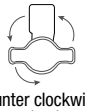
## PADLOCKING WINGHEAD CAM LATCH

- **Integrated padlock feature for secure lock-out.**
- **Built in detent for positive feel.**
- **Clockwise or counter-clockwise rotation for design symmetry.**

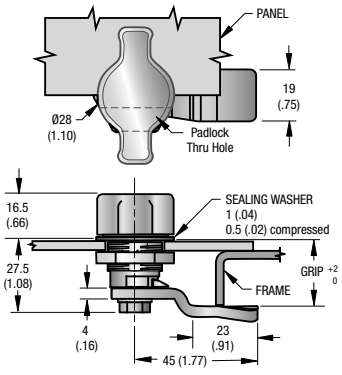
**ORDERING INSTRUCTIONS:**

❶ **Select rotation.**

❷ **Proceed to step ❷ on page 79 to order cam.**

| ROTATION ACTION | PART NUMBER |
|---|---|
|  Clockwise to latch | E5-31-SA5-UU0 |
|  Counter clockwise to latch | E5-31-SB2-UU0 |

**NOTE: Padlock thru hole is oriented at the bottom of the wing in the latched position.**




**Clockwise (illustrated)**



NEMA 4

**PANEL PREPARATION (See above)**

## QUAD PANEL LATCH, INDUSTRIAL SERIES

- **4 materials including 316 stainless.**
- **Spring tension cam allows grip tolerance and resists vibration.**
- **Cams available for nearly any grip.**

NEMA 4

NON-CORROSIVE



8mm triangle head style

Glass filled nylon



5mm double bit head style

Die cast, black



tamper resistant head style

Die cast, chrome



Key locking version

Die cast, black

STAINLESS



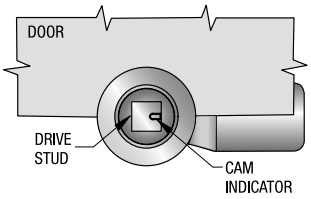
8mm square head style

Stainless steel

## SPOTLIGHT FEATURES

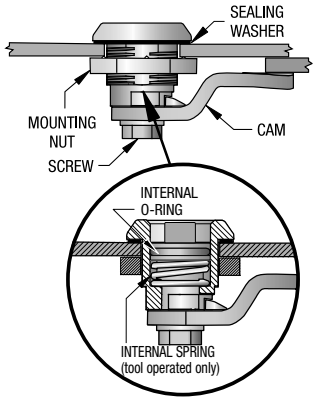
### CAM INDICATOR

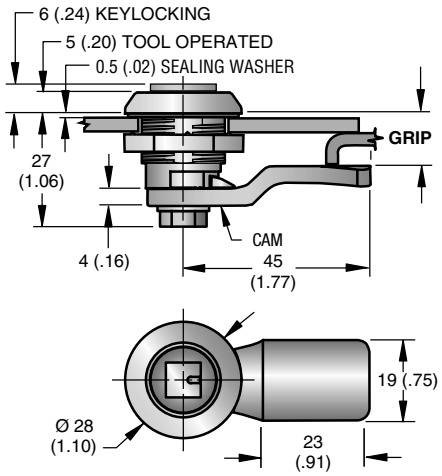
- **Visual guide to cam position.**



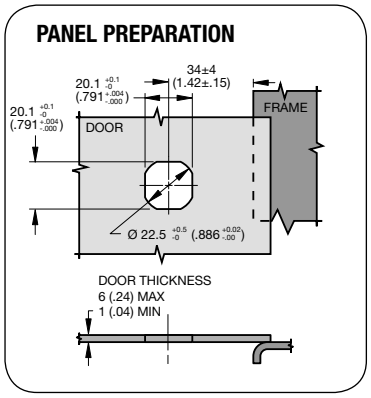

### INTERNAL SPRING ACTION

- **Allows tolerance.**
- **Resists vibration.**




### PANEL PREPARATION




### OPTIONAL ACCESSORIES (Order separately)

**IMPORTANT**

Grip adjustment
+2.4mm (.09") Pull tab
+2.0mm (.08") Padlock bracket



E5-18

Grip Adjustment 2.4 mm (.093")




E5-77-101-31

2 mm (.08")

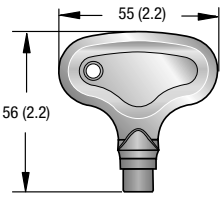



E5-77-102-31

2 mm (.08")

| Head Style | KEY PART NUMBER | | |
|---|---|---|---|
| | Zinc die cast, nickel plate | Zinc die cst, w/ chemical protective film | Glass filled Nylon |
| 8mm Hex | E3-11-1 | E3-11-2 | E3-11-3 |
| 7mm Triangle | E3-3-1 | E3-3-2 | E3-3-3 |
| 8mm Triangle | E3-7-1 | E3-7-2 | E3-7-3 |
| 7mm Square | E3-4-1 | E3-4-2 | E3-4-3 |
| 8mm Square | E3-8-1 | E3-8-2 | E3-8-3 |
| 3mm Double Bit | E3-2-1 | E3-2-2 | E3-2-3 |
| 5mm Double Bit | E3-9-1 | E3-9-2 | E3-9-3 |
| Bellcore 216 | E3-12-1 | E3-12-2 | E3-12-3 |
| Bellcore Electronics | E3-11-1 | E3-11-2 | --- |

### KEY DRIVES
(Order separately)



### ❶ Select your latch material and head style (order separately)

| SLOTTED | |
|---|---|
| Glass Filled Nylon, Black | E5-6-003 |
| Die cast, Black | E5-6-005 |
| Die cast, Chrome | E5-6-002 |
| 304 Stainless | E5-6-0024 |
| 316 Stainless | E5-6-0027 |

| 7 MM TRIANGLE | |
|---|---|
| Glass Filled Nylon, Black | E5-6-033 (8mm triangle) |
| Die cast, Black | E5-6-025 |
| Die cast, Chrome | E5-6-022 |
| 304 Stainless | E5-6-0224 |
| 316 Stainless | E5-6-0227 |

| 7 MM SQUARE | |
|---|---|
| Glass Filled Nylon, Black | E5-6-043 |
| Die cast, Black | E5-6-045 |
| Die cast, Chrome | E5-6-042 |
| 304 Stainless | E5-6-0424 |
| 316 Stainless | E5-6-0427 |

| 8 MM SQUARE | |
|---|---|
| Glass Filled Nylon, Black | E5-6-053 |
| Die cast, Black | E5-6-055 |
| Die cast, Chrome | E5-6-052 |
| 304 Stainless | E5-6-0524 |
| 316 Stainless | E5-6-0527 |

| 3 MM DOUBLE BIT | |
|---|---|
| Glass Filled Nylon, Black | E5-6-063 |
| Die cast, Black | E5-6-065 |
| Die cast, Chrome | E5-6-062 |
| 304 Stainless | E5-6-0624 |
| 316 Stainless | E5-6-0627 |

| 5 MM DOUBLE BIT | |
|---|---|
| Glass Filled Nylon, Black | E5-6-073 |
| Die cast, Black | E5-6-075 |
| Die cast, Chrome | E5-6-072 |
| 304 Stainless | E5-6-0724 |
| 316 Stainless | E5-6-0727 |

| 8 MM HEX | |
|---|---|
| Die cast, Black | E5-6-015 |
| Die cast, Chrome | E5-6-012 |
| 304 Stainless | E5-6-0124 |
| 316 Stainless | E5-6-0127 |

| RAILWAY STANDARD | |
|---|---|
| Die cast, Black | E5-6-226 |
| Die cast, Chrome | E5-6-222 |
| 304 Stainless | E5-6-2224 |
| 316 Stainless | E5-6-2227 |

| BELLCORE 216 | |
|---|---|
| Die cast, Black | E5-6-135 |
| Die cast, Chrome | E5-6-132 |
| 304 Stainless | E5-6-1324 |
| 316 Stainless | E5-6-1327 |

| BELLCORE ELECTRONICS | |
|---|---|
| Die cast, Black | E5-6-195 |
| Die cast, Chrome | E5-6-192 |

| TAMPER RESISTANT SLOT | |
|---|---|
| Die cast, Black | E5-6-215 |
| Die cast, Chrome | E5-6-212 |

| KEY LOCK* | |
|---|---|
| Die cast, Black | E5-5-405 |
| Die cast, Chrome | E5-5-402 |
| *2 Keys, ringed, included | |

### ❷ Calculate your grip (see design on following page)

**Grip = distance from outside panel to frame.**

- **Add 0.5mm (.02") for compressed seating washer.**
- **Add grip adjustment if accessories are used.**

### ❸ Select your cam (order separately)

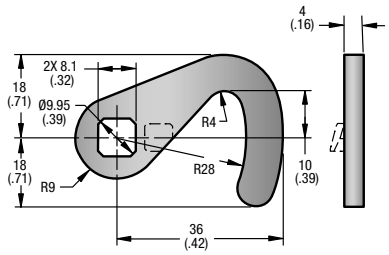
| **Cam Grip** + 2mm (.08") - 0mm (0,00") (See Diagram, Page 50) / MATERIAL | 4mm (.16") | 6mm (.24") | 8mm (.31") | 10mm (.39") | 12mm (.47") | 14mm (.55") | 16mm (.63") | 18mm (.71") | 20mm (.79") | 22mm (.87") |
|---|---|---|---|---|---|---|---|---|---|---|
| Steel, Zinc Plate | E5-6003 | E5-6004 | E5-6005 | E5-6006 | E5-6007 | E5-6008 | E5-6009 | E5-6010 | E5-6011 | E5-6012 |
| 304 Stainless Steel | E5-8003 | E5-8004 | E5-8005 | E5-8006 | E5-8007 | E5-8008 | E5-8009 | E5-8010 | E5-8011 | E5-8012 |
| 316 Stainless Steel | E5-9003 | E5-9004 | E5-9005 | E5-9006 | E5-9007 | E5-9008 | E5-9009 | E5-9010 | E5-9011 | E5-9012 |
| | | | | | | | Hook Cams (see below) | | | |

| **Cam Grip** + 2mm (.08") - 0mm (0,00") (See Diagram, Page 50) / MATERIAL | 24mm (.94") | 26mm (1.02") | 28mm (1.10") | 30mm (1.18") | 32mm (1.26") | 34mm (1.34") | 36mm (1.42") | 38mm (1.50") | 40mm (1.58") | 42mm (1.65") |
|---|---|---|---|---|---|---|---|---|---|---|
| Steel, Zinc Plate | E5-6013 | E5-6014 | E5-6015 | E5-6016 | E5-6017 | E5-6018 | E5-6019 | E5-6020 | E5-6021 | E5-6022 |
| 304 Stainless Steel | E5-8013 | E5-8014 | E5-8015 | E5-8016 | E5-8017 | E5-8018 | E5-8019 | E5-8020 | E5-8021 | E5-8022 |
| 316 Stainless Steel | E5-9013 | E5-9014 | E5-9015 | E5-9016 | E5-9017 | E5-9018 | E5-9019 | E5-9020 | E5-9021 | E5-9022 |

**HOOK CAMS Steel, zincplate**



Clockwise (photo)



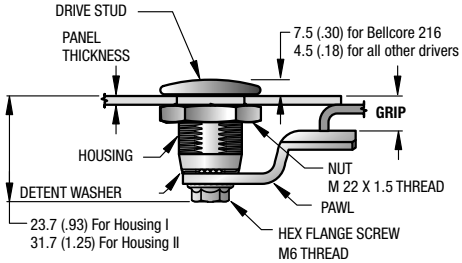

| PART NUMBER | Rotation Action |
|---|---|
| E5-6200 | No Stop Can be used in either rotation |
| E5-6210 | Stop built for Clockwise rotation |
| E5-6220 | Stop built for Counter-clockwise rotation |

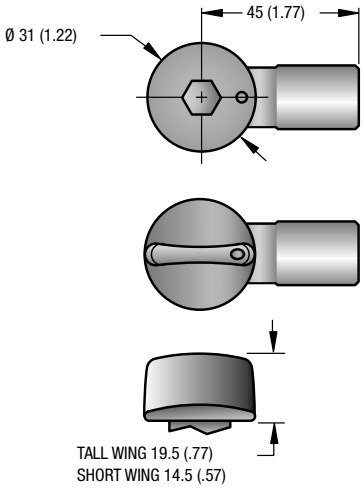
## QUAD PANEL LATCH DESIGNER SERIES

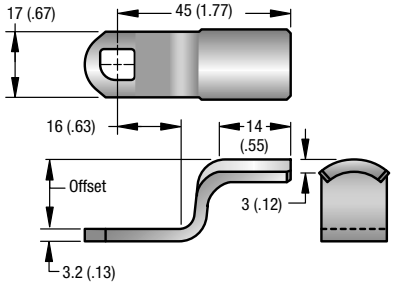
- **Sealed version can be used to meet NEMA 4 applications.**
- **Latched / unlatched indicator.**
- **Single hole installation.**
- **13 head styles.**
- **2 standard finishes.**



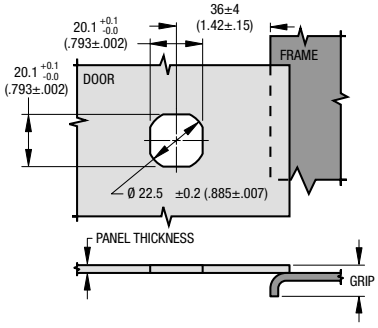


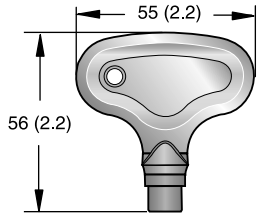




### PANEL PREPARATION

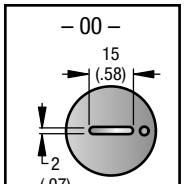


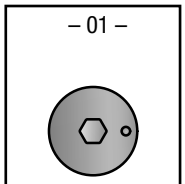

### Key Chart (order separately)

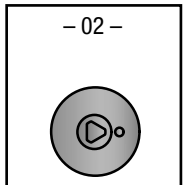
| KEY PART NUMBER | HEAD STYLE |
|---|---|
| **E3-3-1** | 7 mm TRIANGLE |
| **E3-7-1** | 8 mm TRIANGLE |
| **E3-4-1** | 7 mm SQUARE |
| **E3-8-1** | 8 mm SQUARE |
| **E3-2-1** | 3 mm DOUBLE BIT |
| **E3-9-1** | 5 mm DOUBLE BIT |
| **E3-10-1** | 8 mm SQUARE SOCKET |
| **E3-12-1** | BELLCORE 216 |
| **E3-11-1** | BELLCORE ELECTRONICS |

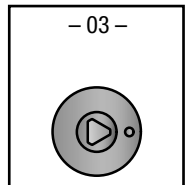


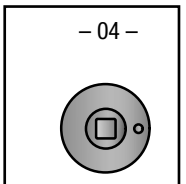

**<u>Available head styles</u>: Head style numbers for part number selection on page 79.**

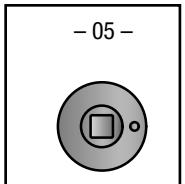


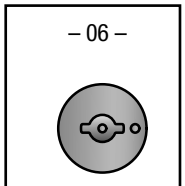



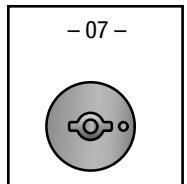



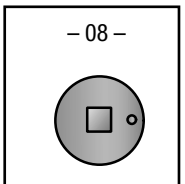



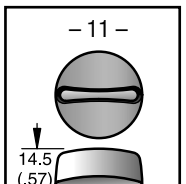



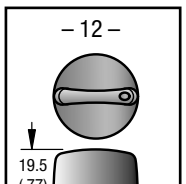



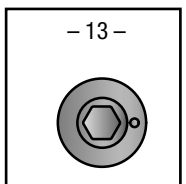



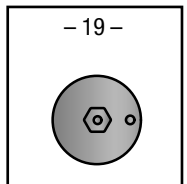



**Note:** **If the difference between the door thickness and the grip is less than 4 mm (.16"), the latch pawl must be removed for installation.**

## QUAD PANEL LATCH DESIGNER SERIES

NEMA 4

| HOUSING STYLE II (1-14 mm door thickness) GRIP RANGE | | PART NUMBER | | | |
|---|---|---|---|---|---|
| MINIMUM | MAXIMUM | Sealed, black finish | Sealed, chrome finish | Not sealed, black finish | Not sealed chrome finish |
| 2 (.08") | 4 (.16") | E5-1-**XX**5-021 | E5-1-**XX**1-021 | E5-1-**XX**5-020 | E5-1-**XX**1-020 |
| 4 (.16") | 6 (.24") | E5-1-**XX**5-031 | E5-1-**XX**1-031 | E5-1-**XX**5-030 | E5-1-**XX**1-030 |
| 6 (.24") | 8 (.31") | E5-1-**XX**5-041 | E5-1-**XX**1-041 | E5-1-**XX**5-040 | E5-1-**XX**1-040 |
| 8 (.31") | 10 (.39") | E5-1-**XX**5-051 | E5-1-**XX**1-051 | E5-1-**XX**5-050 | E5-1-**XX**1-050 |
| 10 (.39") | 12 (.47") | E5-1-**XX**5-061 | E5-1-**XX**1-061 | E5-1-**XX**5-060 | E5-1-**XX**1-060 |
| 12 (.47") | 14 (.55") | E5-1-**XX**5-071 | E5-1-**XX**1-071 | E5-1-**XX**5-070 | E5-1-**XX**1-070 |
| 14 (.55") | 16 (.63") | E5-1-**XX**5-081 | E5-1-**XX**1-081 | E5-1-**XX**5-080 | E5-1-**XX**1-080 |
| 16 (.63") | 18 (.71") | E5-1-**XX**5-091 | E5-1-**XX**1-091 | E5-1-**XX**5-090 | E5-1-**XX**1-090 |
| 18 (.71") | 20 (.79") | E5-1-**XX**5-101 | E5-1-**XX**1-101 | E5-1-**XX**5-100 | E5-1-**XX**1-100 |
| 20 (.79") | 22 (.87") | E5-1-**XX**5-111 | E5-1-**XX**1-111 | E5-1-**XX**5-110 | E5-1-**XX**1-110 |
| 22 (.87") | 24 (.94") | E5-1-**XX**5-121 | E5-1-**XX**1-121 | E5-1-**XX**5-120 | E5-1-**XX**1-120 |
| 24 (.94") | 26 (1.02") | E5-1-**XX**5-131 | E5-1-**XX**1-031 | E5-1-**XX**5-130 | E5-1-**XX**1-130 |

**Note:** **Non-standard pawls are available for larger grip ranges. Increased lead time and minimum orders will apply.**

| HOUSING STYLE II (1-14 mm door thickness) GRIP RANGE | | PART NUMBER | | | |
|---|---|---|---|---|---|
| MINIMUM | MAXIMUM | Sealed, black finish | Sealed, chrome finish | Not sealed, black finish | Not sealed chrome finish |
| 6 (.24") | 8 (.31") | E5-2-**XX**5-001 | E5-2-**XX**1-001 | E5-2-**XX**5-000 | E5-2-**XX**1-000 |
| 8 (.31") | 10 (.39") | E5-2-**XX**5-011 | E5-2-**XX**1-011 | E5-2-**XX**5-010 | E5-2-**XX**1-010 |
| 10 (.39") | 12 (.47") | E5-2-**XX**5-021 | E5-2-**XX**1-021 | E5-2-**XX**5-020 | E5-2-**XX**1-020 |
| 12 (.47") | 14 (.55") | E5-2-**XX**5-031 | E5-2-**XX**1-031 | E5-2-**XX**5-030 | E5-2-**XX**1-030 |
| 14 (.55") | 16 (.63") | E5-2-**XX**5-041 | E5-2-**XX**1-041 | E5-2-**XX**5-040 | E5-2-**XX**1-040 |
| 16 (.63") | 18 (.71") | E5-2-**XX**5-051 | E5-2-**XX**1-051 | E5-2-**XX**5-050 | E5-2-**XX**1-050 |
| 18 (.71") | 20 (.79") | E5-2-**XX**5-061 | E5-2-**XX**1-061 | E5-2-**XX**5-060 | E5-2-**XX**1-060 |
| 20 (.79") | 22 (.87") | E5-2-**XX**5-071 | E5-2-**XX**1-071 | E5-2-**XX**5-070 | E5-2-**XX**1-070 |
| 22 (.87") | 24 (.94") | E5-2-**XX**5-081 | E5-2-**XX**1-081 | E5-2-**XX**5-080 | E5-2-**XX**1-080 |
| 24 (.94") | 26 (1.02") | E5-2-**XX**5-091 | E5-2-**XX**1-091 | E5-2-**XX**5-090 | E5-2-**XX**1-090 |
| 26 (1.02") | 28 (1.10") | E5-2-**XX**5-101 | E5-2-**XX**1-101 | E5-2-**XX**5-100 | E5-2-**XX**1-100 |
| 28 (1.10") | 30 (1.18") | E5-2-**XX**5-111 | E5-2-**XX**1-111 | E5-2-**XX**5-110 | E5-2-**XX**1-110 |
| 30 (1.18") | 32 (1.25") | E5-2-**XX**5-121 | E5-2-**XX**1-121 | E5-2-**XX**5-120 | E5-2-**XX**1-120 |
| 32 (1.25") | 34 (1.34") | E5-2-**XX**5-131 | E5-2-**XX**1-131 | E5-2-**XX**5-130 | E5-2-**XX**1-130 |

**How to Order:**

1. **Determine grip by adding:**

| | | |
|---|---|---|
| **Door thickness** | | |
| **Accessories** | + | |
| **Sealing washer** | + | |
| **Frame thickness** | + | |
| **Grip** | = | |

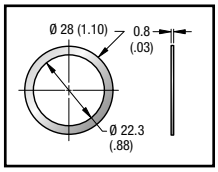
2. **Review door thickness. Enter part number chart based on door thickness. Place your grip in the grip range.**
3. **Determine your sealing option and select your finish.**
4. **Add the head style number from page 78 in place of -XX to compute your part number.**
5. **Order key from page 78 if head style requires.**

**For detailed material specifications plus product installation instructions.**
**www.clancey.com**

**ADJUSTMENT FOR ACCESSORIES:**

**Add the adjustment number to the formula above.**

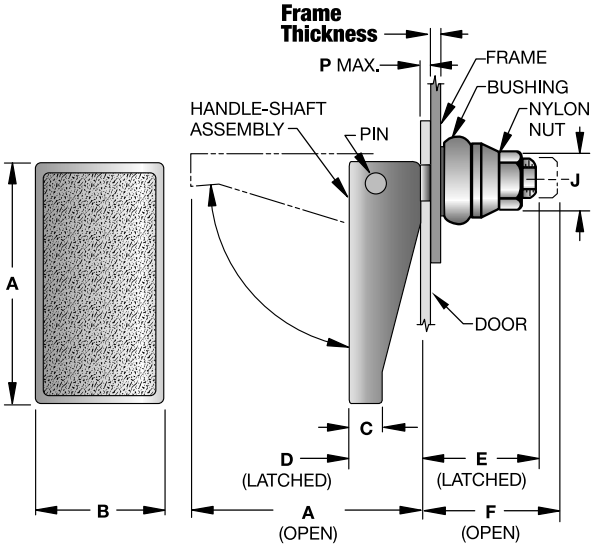
**Accessories: (order separately)** **Seal: (included with sealed assemblies)**

| | Pull tab | Padlock brackets | | Sealing washer |
|---|---|---|---|---|
| |  E5-18 |  E3-77-101-31 |  E3-77-102-31 |   |
| **Adjustment Number** | **2.4 mm (.093")** | **2 mm (.08")** | **2 mm (.08")** | **0.4 mm (.02")** |

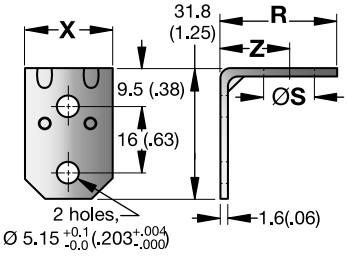
## SWELL ACTION SERIES, HANDLE STYLE

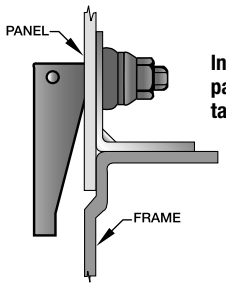
- **Accommodates misalignment between door and frame.**
- **Latches in any frame thickness, and blind applications.**






### SIDE MOUNT BRACKET
**(order separately)**




**Inner surface of panel MUST contact side mount.**

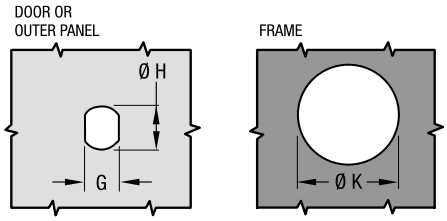
### MATERIAL AND FINISH
**1010 Steel, zinc plated with yellow chromate dip.**

| SERIES | ØS | R | X | Z | PART NUMBERS |
|---|---|---|---|---|---|
| 81 & 83 | 9.5 (.38) | 27 (1.06) | 20.5 (.81) | 16.7 (.66) | 19-0-15666-11 |
| 91 & 93 | 13.5 (.53) | | | | 19-0-15665-11 |

| SERIES | DIMENSIONS | | | | | | | | PART NUMBERS | THREAD SIZE |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | J (Across Flats) | P MAX. | | |
| 81 | 28 (1.09) | 12 (.47) | 4 (.14) | 8 (.31) | 13 (.52) | 15.5 (.61) | 6 (.24) | 3.2 (.13) | 19-81-10 | 8-32 UNC |
| 91 | 39 (1.53) | 17 (.66) | 5 (.19) | 11.5 (.45) | 19 (.75) | 22.5 (.89) | 8 (.31) | 4.8 (.19) | 19-91-10 | 12-24 UNC |

**For detailed material specifications plus product installation instructions.**
**www.clancey.com**

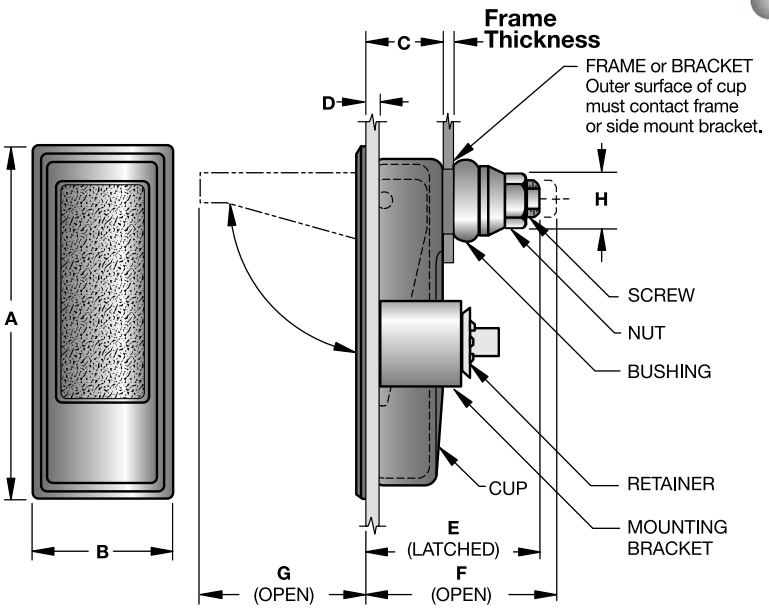
### PANEL PREPARATION




| SERIES | G +0.1 -0.0 (+.004 -.000) | ØH +0.1 -0.0 (+.004 -.000) | FRAME THICKNESS | ØK +0.5 -0.0 (+.030 -.000) | MAX. misalignment between ℄'s of panel hole and frame hole. | RATED LOAD (SHORT TERM) |
|---|---|---|---|---|---|---|
| 81 | 3.3 (.130) | 4.1 (.161) | 3.2 (.13) MAX. | 9.5 (.375) | 0.4 (.015) | 180 N (40 lbs.) |
| 91 | 4.5 (.177) | 5.8 (.228) | up to 3.2 (.13) | 13.5 (.531) | 0.6 (.025) | 440 N (100 lbs.) |
| | | | 3.2 (.13) to 4.8 (.19) | 14 (.547) | 0.8 (.030) | 330 N (75 lbs.) |

- **Flush design.**
- **Dampens vibration.**

## SWELL ACTION SERIES, FLUSH STYLE



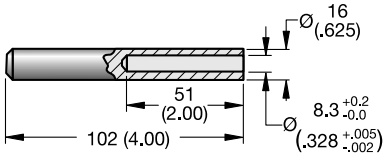



**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

| SERIES | DIMENSIONS | | | | | | | | PART NUMBERS | THREAD SIZE |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D MAX. | E | F | G | H | | |
| 83 | 44 (1.73) | 19 (.74) | 9.5 (.37) | 3.2 (.13) | 21 (.81) | 23 (.90) | 21 (.84) | 6 (.24) | **19-83-10** | 8-32 UNC |
| 93 | 61 (2.39) | 24 (.95) | 13.3 (.52) | 4.8 (.19) | 30 (1.16) | 33 (1.30) | 28 (1.12) | 8 (.31) | **19-93-10** | 12-24 UNC |

### SET TOOL



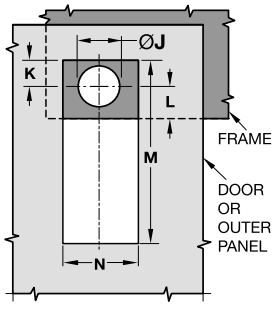

### MATERIAL AND FINISH

**1095 Steel, zinc plated.**

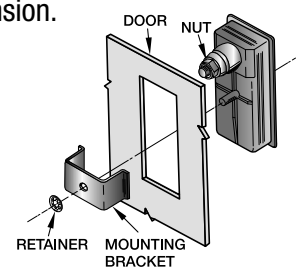
| PART NUMBER |
|---|
| 17-10019-11 |

### PANEL PREPARATION

1. Prepare rectangular hole in door and round hole in frame.
2. Seat latch in rectangular hole.




3. Position bracket and retainer over stud. Place set tool over retainer and sharply strike tool. With handle in up (unlatched) position, adjust nut to provide satisfactory latching tension.




| SERIES | MAX. misalignment between ℄'s of panel hole and frame hole. | RATED LOAD (SHORT TERM) | FRAME OR BRACKET | | | | OUTER PANEL | |
|---|---|---|---|---|---|---|---|---|
| | | | FRAME THICKNESS | Ø J +0.5 (+.020) -0.0 (-.000) | K ±0.3 (.010) | L MAX. | M | N |
| 83 | 0.4 (.015) | 180 N (40 lbs.) | 3.2 (.13) MAX. | 9.5 (.375) | 6 (.234) | 11 (.45) | $41.5^{+0.4}_{-0.0}$ (1.640 ±.005) | $16.5^{+0.0}_{-0.4}$ (.640 ±.005) |
| 93 | 0.6 (.025) | 440 N (100 lbs.) | up to 3.2 (.13) | 13.5 (.531) | 8 (.312) | 14 (.56) | 57.5 ±0.2 (2.265 ±.005) | $20.5^{+0.4}_{-0.0}$ (.812 ±.005) |
| | 0.8 (.030) | 330 N (75 lbs.) | 3.2 (.13) to 4.8 (.19) | 14 (.547) | | | | |

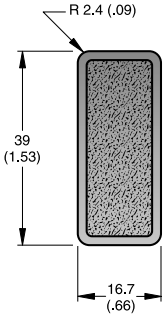
## SWELL ACTION SERIES, BULLET NOSE

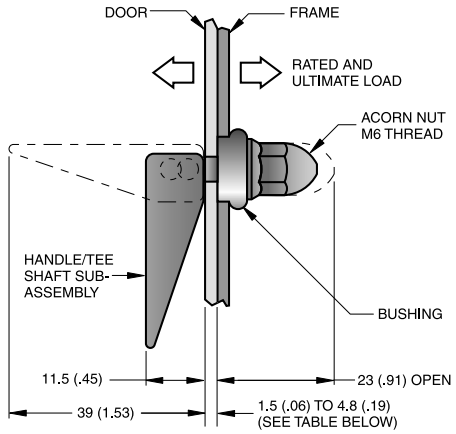
- Accommodates misalignment between door and frame.
- Latches in any frame thickness and blind applications.
- Dampens vibration.
- Latch and handle in one.

NON CORROSIVE

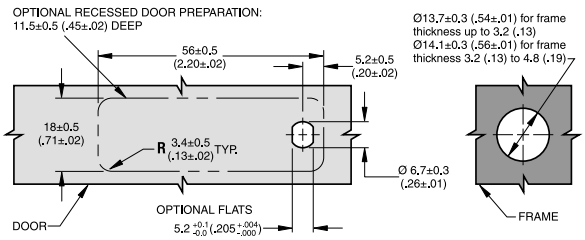


| PART NUMBER |
|---|
| 19-54-01 |




### PANEL PREPARATION




| DOOR THICKNESS | USE WASHER? | ADJUSTMENT REQUIRED? |
|---|---|---|
| 1.7±0.2 (.07±.01) | YES | NO |
| 1.9 (.08) to 2.3 (.09) | YES | YES |
| 2.5±0.2 (.10±.01) | NO | NO |
| 2.7 (.11) to 4.8 (.19) | NO | YES |

## SWELL ACTION SERIES, HEAVY DUTY

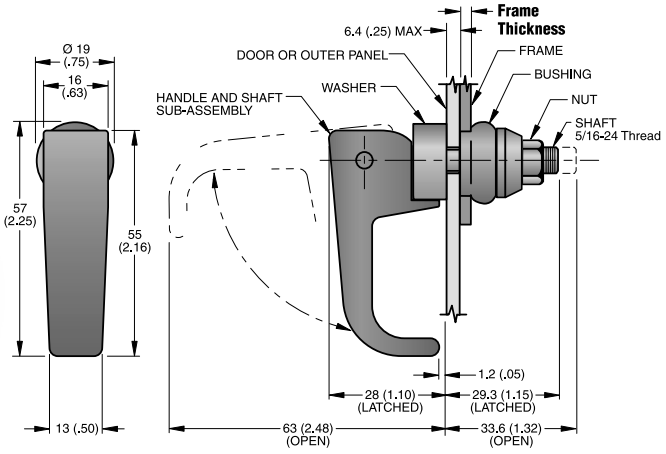
- Die-cast handle provides additional leverage for heavy duty applications.



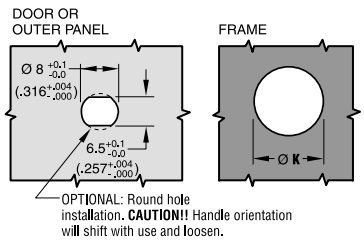
| PART NUMBER |
|---|
| 19-14-10 |

For detailed material specifications plus product installation instructions.

www.clancey.com




### PANEL PREPARATION



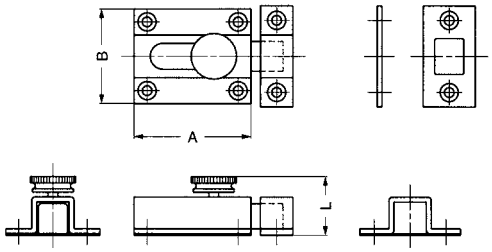

| FRAME THICKNESS | Ø K +0.5 -0.0 (+.031 -.000) | MAX. misalignment between ℄'s of panel hole and frame hole. |
|---|---|---|
| 1.2 (.05) to 3.2 (.13) | 19 (.750) | 0.9 (.035) |
| 3.2 (.13) to 4.8 (.19) | 19.5 (.766) | 1.1 (.045) |
| 4.8 (.19) to 6.4 (.25) | 20 (.781) | 1.3 (.050) |
| 6.4 (.25) and Up | 20.5 (.797) | 1.5 (.060) |

- Easy, intuitive action.
- Supplied with surface and mortise keepers.
- Mounting hardware is included.

## SLIDE BOLTS

### KNOB STYLE





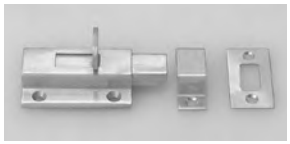

BRASS

- Knurled knob for easy grip

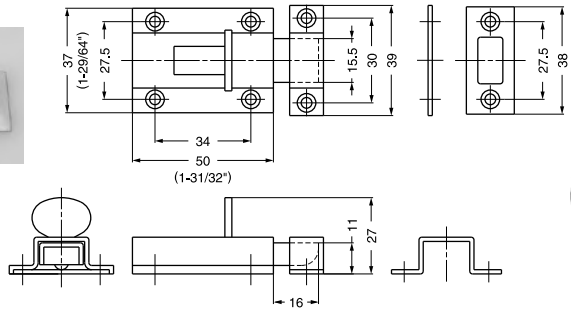
**Material:** Brass
**Finish:** Satin nickel

| PART NUMBER | PRIMARY DIMENSIONS | | |
|---|---|---|---|
| | LENGTH "A" | WIDTH "B" | HEIGHT "L" |
| SBL-35 | 36 (1.42") | 29 (1.14") | 18 (.71") |
| SBL-45 | 45 (1.77") | 30 (1.18") | 18.5 (.73") |

### TAB STYLE



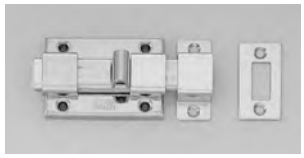
PART NUMBER
KR-50



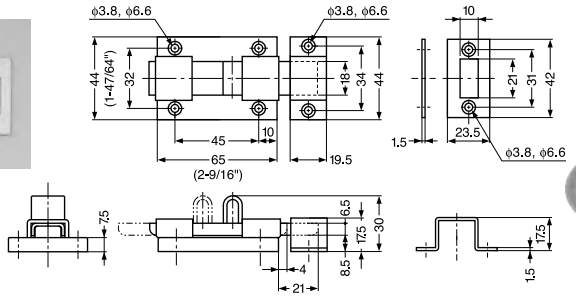

STAINLESS

- Easy to activate

### ROUNDED TAB



PART NUMBER
KR-65




STAINLESS

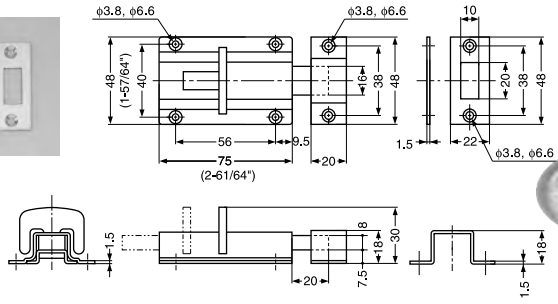
- No snag design

**Material:** 304 stainless steel
**Finish:** Polished

### WING TAB



PART NUMBER
KR-75

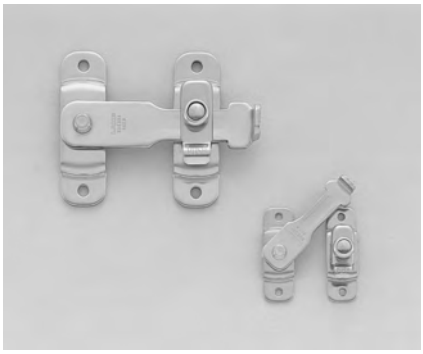


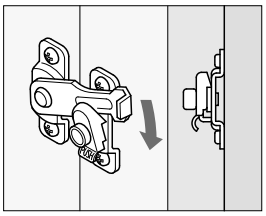

STAINLESS

- Wing drapes over latch channel

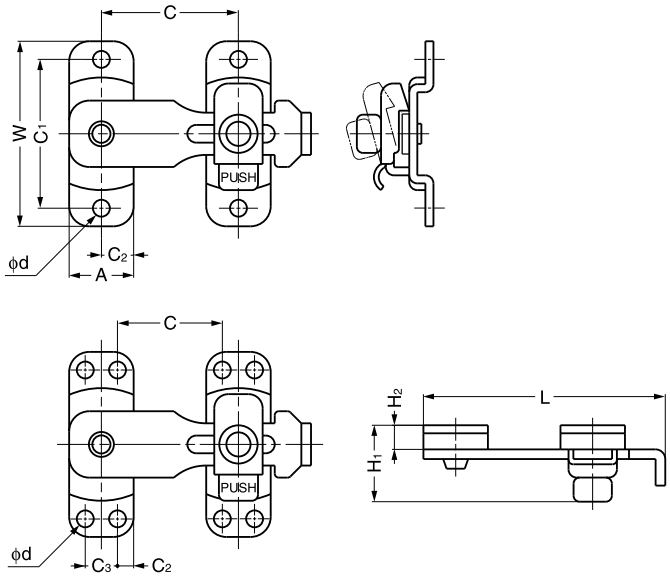
## SPRING LOADED BAR LATCH

- **Spring action catch secures bar in place for secure closing.**
- **Push button release to disengage latch.**
- **6 sizes available.**
- **NSF recognized component.**





**Material:** 304 stainless steel
**Finish:** Polished
**Note:** Supplied with stainless steel screws



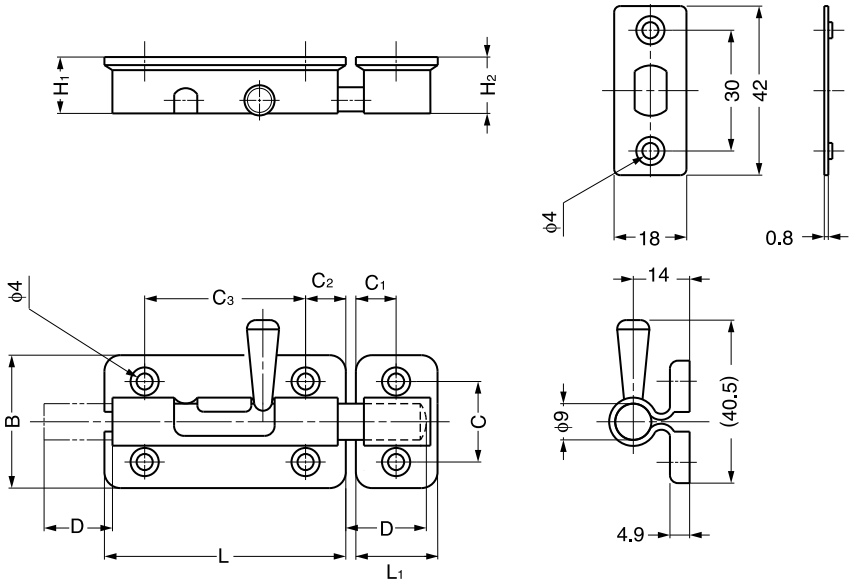

| PART NUMBER | PRIMARY DIMENSIONS | | | | | MOUNTING DIMENSIONS | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | L | W | A | $H_1$ | $H_2$ | C | C+/- | $C_1$ | $C_2$ | $C_3$ |
| BLL-45 | 48 (1.89") | 40 (1.57") | 13 (.51") | 17 (.67") | 4.5 (.18") | 23 (.91") | 3 (.12") | 32 (1.26") | 6.5 (.26") | ---- |
| BLL-60 | 63 (2.48") | 46 (1.81") | 16 (.63") | 20 (.79") | 6 (.24") | 34 (1.34") | 4 (.16") | 37 (1.46") | 8 (.31") | ---- |
| BLL-80 | 85 (3.35") | 65 (2.56") | 20 (.79") | 22.5 (.89") | 7 (.28") | 47 (1.85") | 7 (.28") | 53 (2.08") | 10 (.39") | ---- |
| BLL-100 | 105 (4.13") | 80 (3.15") | 25 (.98") | 26.5 (1.04") | 8 (.31") | 59 (2.32") | 7 (.28") | 66 (2.60") | 12.5 (.49") | ---- |
| BLL-120 | 127 (5.00") | 100 (3.94") | 28.5 (1.12") | 28 (1.10") | 8 (.31") | 56 (2.20") | 10 (.39") | 80 (3.15") | 6.8 (.27") | 15 (.59") |
| BLL-150 | 155 (6.10") | 120 (4.72") | 30.5 (1.20") | 28 (1.10") | 8 (.31") | 74 (2.91") | 14 (.55") | 95 (3.74") | 7.3 (.29") | 16 (.63") |

- **Spring action on latch pin forces the pin to the closed position and provides resistance when opening.**
- **2 sizes available.**
- **NSF recognized component.**

## SPRING LOADED BARREL BOLT



**Material:** 304 stainless steel
**Finish:** Satin
**Note:** Supplied with stainless steel screws.
Supplied with surface and mortise keepers.




| PART NUMBER | PRIMARY DIMENSIONS | | | | | | MOUNTING DIMENSIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | L | $L_1$ | B | $H_1$ | $H_2$ | D | C | $C_1$ | $C_2$ | $C_3$ |
| BLS-60 | 60 (2.36") | 25.4 (1.00") | 33 (1.30") | 20 (.79") | 20.4 (.80") | 17 (.67") | 20 (.79") | 12.7 (.50") | 10 (.39") | 40 (1.57") |
| BLS-90 | 90 (3.54") | 25.4 (1.00") | 33 (1.30") | 20 (.79") | 20.4 (.80") | 24 (.97") | 20 (.79") | 12.7 (.50") | 12.5 (.49") | 65 (2.56") |

CAD POWERED

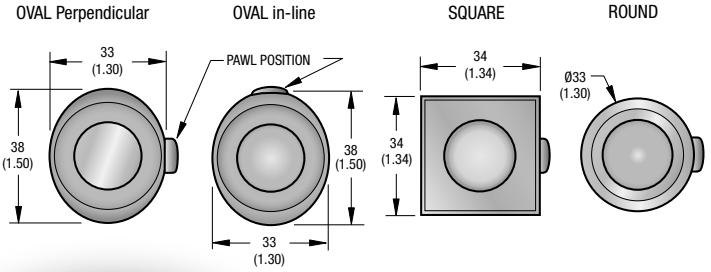
southco® AUTHORIZED DISTRIBUTOR

## SOUTHCO® POINT LATCH

NON-CORROSIVE

- **Knob stores flush; pops out at a touch.**
- **Smooth operation requires low closing force.**
- **Easy single hole installation.**
- **Can be closed in both latched and unlatched position.**
- **Finish and shape design flexibility.**



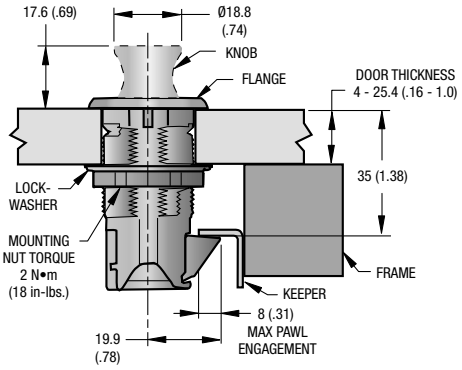



**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

**HOODED KEEPER**
**MP-510-16-4 •**

Use M5 or #10 screws to mount (not supplied)




**TO VIEW FINISH OPTIONS**
VISIT: www.clancey.com

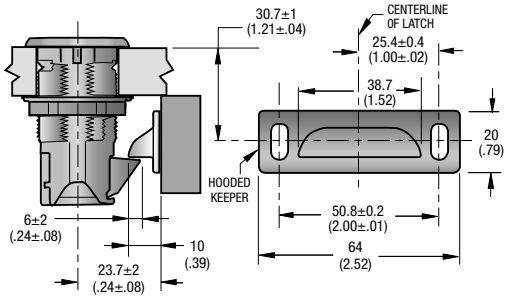
**Finish Options**



**Chrome**

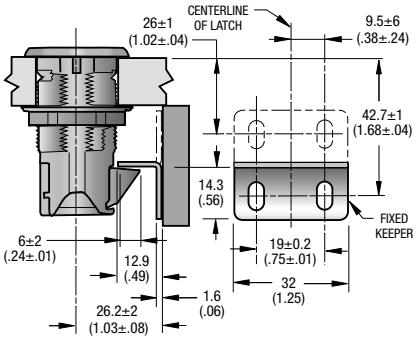
**Satin**

**Brass**




**FIXED KEEPER**
**M1-519-4 •**

Use M5 or #10 screws to mount (not supplied)

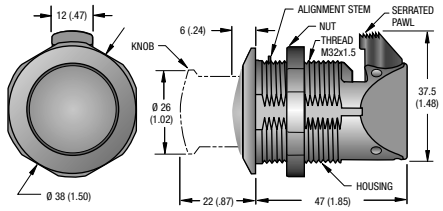



| PART NUMBERS | | | | | |
|---|---|---|---|---|---|
| **FLANGE** | **KNOB** | **OVAL Perpendicular** | **OVAL In-Line** | **SQUARE** | **ROUND** |
| Chrome | Chrome | **MP-05-112-11** | **MP-05-122-11** | **MP-05-212-11** | **MP-05-312-11** |
| Satin | Satin | **MP-05-112-22** | **MP-05-122-22** | **MP-05-212-22** | **MP-05-312-22** |
| Brass | Brass | **MP-05-112-44** | **MP-05-122-44** | **MP-05-212-44** | **MP-05-312-44** |
| Chrome | Brass | **MP-05-112-14** | **MP-05-122-14** | **MP-05-212-14** | **MP-05-312-14** |
| Brass | Chrome | **MP-05-112-41** | **MP-05-122-41** | **MP-05-212-41** | **MP-05-312-41** |
| Satin | Chrome | **MP-05-112-21** | **MP-05-122-21** | **MP-05-212-21** | **MP-05-312-21** |
| Chrome | Satin | **MP-05-112-12** | **MP-05-122-12** | **MP-05-212-12** | **MP-05-312-12** |

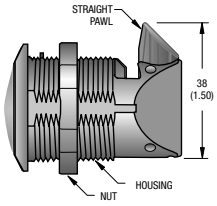
## POP-OUT KNOB, "TWIST" TO OPEN DESIGN

- **Push button to "pop-out" the knob, then "twist" the knob to open the door.**
- **Serrated pawl accommodates panel misalignment.**
- **Black, gold, or chrome finish.**

### SELF-ADJUSTING GRIP LATCH




### FIXED GRIP LATCH

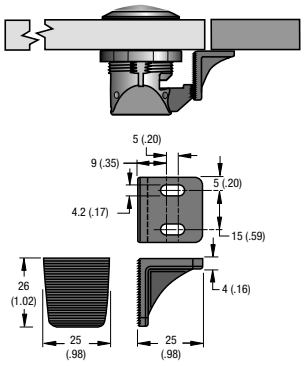



NON-CORROSIVE

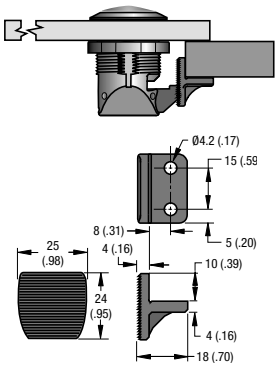


SELF-ADJUSTING GRIP LATCH

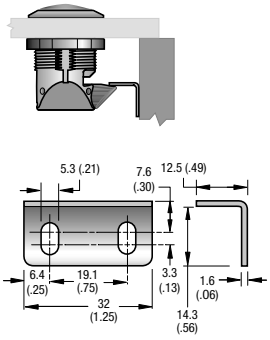
**Flush-mount keeper**
For flush door/frame configuratons.




**Surface-mount keeper**
For overlapping doors.




**Metal keeper**
Can be used for perpendicular door/frame configurations.






FIXED GRIP LATCH

For detailed material specifications plus product installation instructions.
www.clancey.com

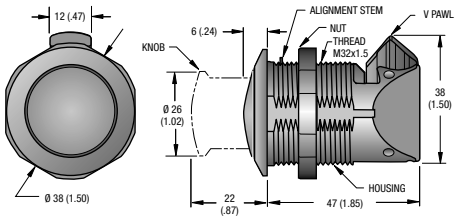
| PART NUMBERS | | |
|---|---|---|
| | SELF ADJUSTING GRIP | |
| FINISH Knob/Housing | FLUSH-MOUNT ASSEMBLY | SURFACE-MOUNT ASSEMBLY |
| Chrome/Chrome | M1-2A-12-1 | M1-2A-11-1 |
| Black/Black | M1-2A-12-5 | M1-2A-11-5 |
| Gold/Gold | M1-2A-12-8 | M1-2A-11-8 |

| PART NUMBER | |
|---|---|
| FINISH Knob/Housing | FIXED-GRIP ASSEMBLY |
| Chrome/Chrome | M1-2A-13-1 |
| Black/Black | M1-2A-13-5 |
| Gold/Gold | M1-2A-13-8 |

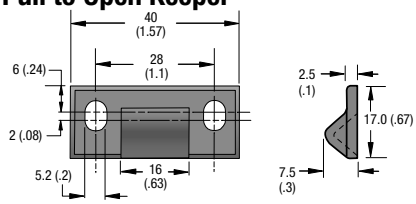
## POP-OUT KNOB, "PULL" TO OPEN DESIGN

- **Push button to "pop-out" the knob, then "pull" the door to open.**
- **Corrosion and UV resistant.**
- **Black, gold, or chrome finish.**

### Pull to Open Latch




### Pull to Open Keeper




| PART NUMBER | |
|---|---|
| FINISH Knob/Housing | PULL to OPEN ASSEMBLY |
| Chrome/Chrome | M1-2A-15-1 |
| Black/Black | M1-2A-15-5 |
| Gold/Gold | M1-2A-15-8 |

NON-CORROSIVE



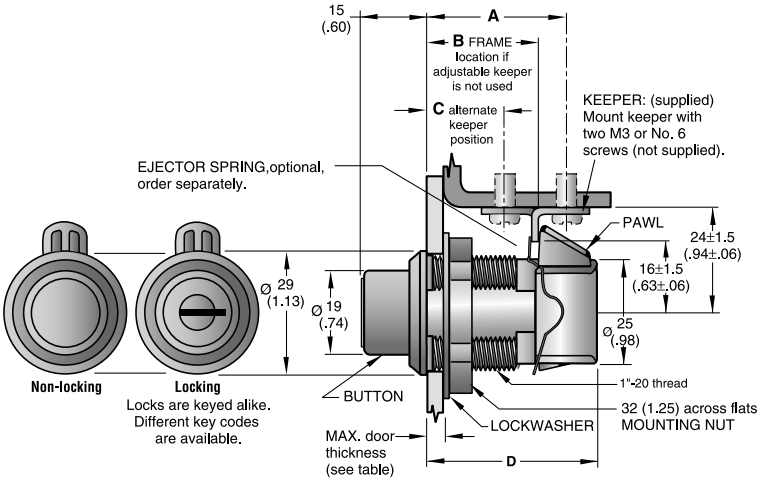
Pull to Open Design

## CORROSION-RESISTANT, PUSH-BUTTON STYLE

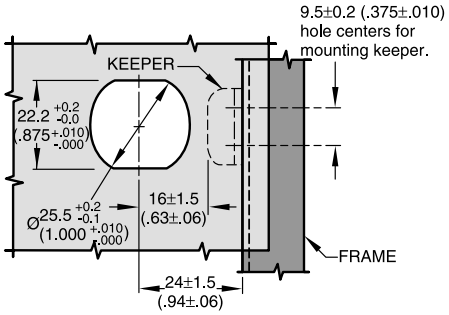
- **Push the button to unlatch.**
- **Locking or non-locking.**
- **Optional pull tabs and ejector spring.**

NON-CORROSIVE

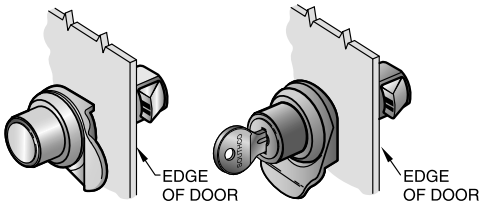





### PANEL PREPARATION




### OPTIONAL PULL TAB




Pull Tab In-line with latching pawl

Pull Tab Perpendicular to latching pawl

| STYLE | Max. door thickness | A | B | C | D REF. |
|---|---|---|---|---|---|
| Latch only | 12.7 (.500) | 32±1.5 (1.25±.06) | 25±0.4 (1.000 +.000 -.032) | 17±1.5 (.66±.06) | 40 (1.57) |
| Latch with pull tab | 10.3 (.407) | 29.5±1.5 (1.16±.06) | 23 +0.1 -0.7 (.907 +.000 -.032) | 14.5±1.5 (.57±.06) | 37 (1.47) |

| PART NUMBERS | Keylock* | Non-keylock |
|---|---|---|
| Pull tab in line with latching pawl. | 93-303 | 93-304 |
| Pull tab perpendicular to latching pawl. | 93-313 | 93-314 |
| Latch only. | 93-307 | 93-308 |
| Ejector Spring (if required) | 93-22-302-18 | |

* Keylocking version supplied w/2 standard keys.

## CORROSION-RESISTANT, "TWISTER"

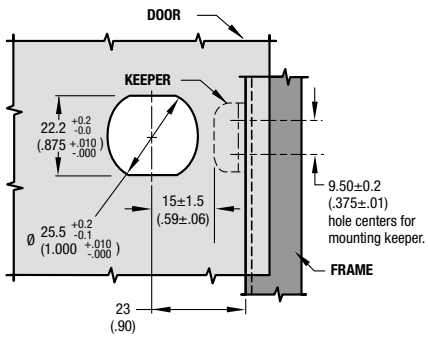
- **Turn, open and pull in one motion.**
- **Key locking.**

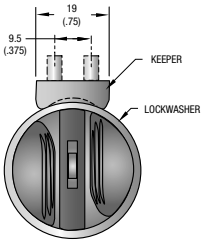
NON-CORROSIVE

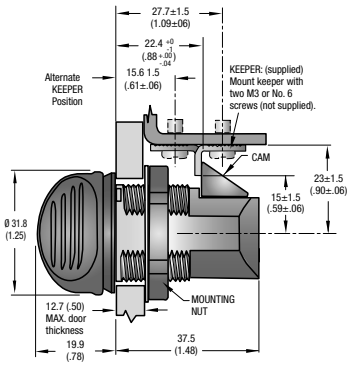


| PART NUMBER |
|---|
| 93-403 * |

### PANEL PREPARATION

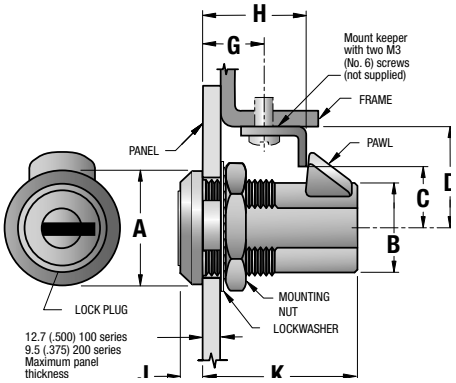



* Latch supplied w/ 2 overmolded keys.

- **Flush.**
- **Optional sealing cover.**




## KEY-LOCKING, FLUSH STYLE

| PART NUMBER | |
|---|---|
| Low Profile, Key Actuated Style | |
| 100 Series | 200 Series |
| **93-10-101-10** | **93-10-201-10** |



**Locks are keyed alike.**
**Different key codes are available.**
**2 standard keys supplied.**

### DIMENSIONAL CHART (FLUSH AND KNOB STYLES)

| Ø A | Ø B | C | D | Ø E | F | G | H | J | K |
|---|---|---|---|---|---|---|---|---|---|
| **100 Series** | | | | | | | | | |
| 29 (1.13) | 24 (.93) | 16±1.5 (.63±.06) | 24±1.5 (.94±.06) | 22 (.88) | 22 (.88) | 17±1.2 (.66±.06) | 25±0.4 (1.000 $^{+.000}_{-.032}$) | 4.8 (.19) | 37 (1.44) |
| **200 Series** | | | | | | | | | |
| 23 (.88) | 17 (.68) | 12±1.5 (.47±.06) | 20±1.5 (.78±.06) | 19 (.75) | 27 (1.06) | 12±1.2 (.47±.06) | $20^{+0.6}_{-0.2}$ (.812 $^{+.000}_{-.032}$) | 4.8 (.19) | 30 (1.19) |

**OPTIONAL SEALING COVER (FLUSH STYLE ONLY)**

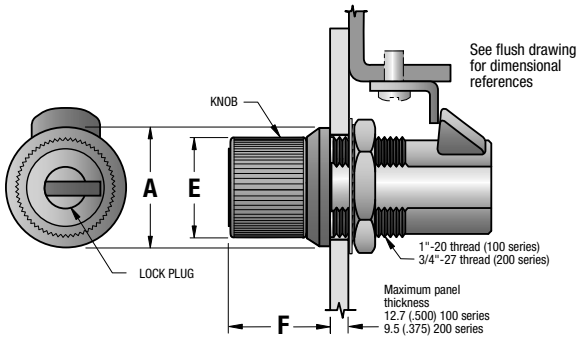


| PART NUMBERS | |
|---|---|
| 100 Series | 200 Series |
| 90-4 | 90-2 |

* Add 2.3 mm (.09") to your grip dimension "H", if using sealing covers.

- **Turn the knob to open.**
- **Non-locking style available.**

## KEY-LOCKING, KNOB STYLE

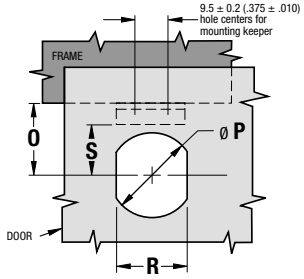



| PART NUMBERS | | Lock plug Finish |
|---|---|---|
| Knob style | | |
| With keylock | Without keylock | |
| **100 Series** | | |
| **93-10-102-50** | **93-10-103-50** | Black |
| **93-10-102-10** | **93-10-103-10** | Bright |
| **200 Series** | | |
| **93-10-202-50** | **93-10-203-50** | Black |
| **93-10-202-10** | **93-10-203-10** | Bright |



**Locks are keyed alike.**
**Different key codes are available.**
**2 standard keys supplied.**

### PANEL PREPARATION (KNOB AND FLUSH STYLES)




| SERIES | INSTALLATION DIMENSIONS | | | |
|---|---|---|---|---|
| | O | P | R | S |
| 100 | 24 ±1.5 (.94 ±.06) | 25.5 ± 0.1 (1.000 $^{+.010}_{-.000}$) | 22.2 $^{+0.3}_{-0.0}$ (.875 $^{+.010}_{-.000}$) | 16 ± 1.5 (.63 ±.06) |
| 200 | 20 ±1.5 (.78 ±.06) | 19 $^{+0.3}_{-0.0}$ (.750 $^{+.010}_{-.000}$) | 16.3 $^{+0.2}_{-0.0}$ (.640 $^{+.010}_{-.000}$) | 12 ±1.5 (.47 ±.06) |

**For detailed material specifications plus product installation instructions.**
**www.clancey.com**

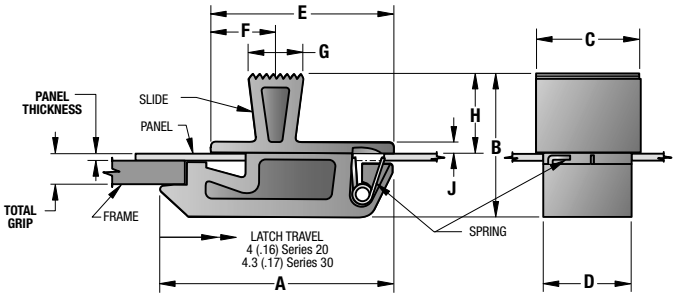
## SLIDE LATCH, TAB STYLE

NON-CORROSIVE



- Three sizes.
- Latch and handle in one.

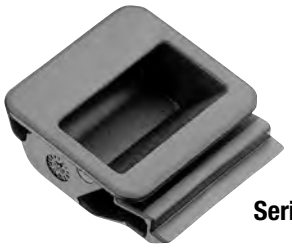
- Slide to open.
- Single-hole, "snap-in" installation.
- Corrosion-resistant materials.




| GRIP | | DIMENSIONS | | | | | | | | | PART NUMBER | SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PANEL THICKNESS | TOTAL GRIP | A | B | C | D | E | F | G | H | J | | |
| .76 ± .08 (.030 ± .003) | 2.54 ± 0.13 (.100 ± .005) | 15.1 (.59) | 11.1 (.44) | 6.0 (.23) | 4.4 (.17) | 11.9 (.47) | 4.4 (.17) | 4.0 (.16) | 5.6 (.22) | 0.8 (.03) | A3-10-310-12 | Small |
| .1 ± 0.1 (.040 ± .005) | 3 ± 0.1 (.120 ± .005) | 22.5 (.87) | 15.5 (.61) | 9.5 (.37) | 7.5 (.30) | 18 (.70) | 6.5 (.26) | 5.5 (.22) | 8.5 (.33) | 1.5 (.06) | A3-20-412-12 | Medium |
| 1.2 $^{+0.2}_{-0.0}$ (.050 ± .005) | 4.8 ± 0.1 (.190 ± .005) | 36 (1.41) | 22.5 (.88) | 16.5 (.64) | 14 (.55) | 29 (1.13) | 10.5 (.41) | 9 (.34) | 13 (.50) | 2 (.08) | A3-30-519-12 | Large |

## SLIDE LATCH, FLUSH STYLE

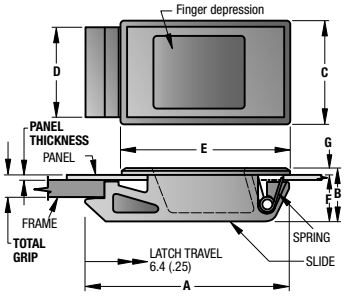
NON-CORROSIVE

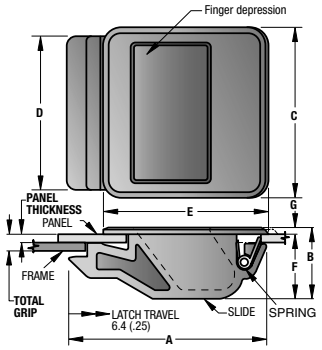


Series 90

- Flush.
- Three sizes.
- Latch and handle in one.

### SERIES 40 AND 50



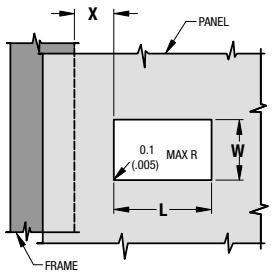




| SIZE | GRIP | | DIMENSIONS | | | | | | | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|
| | Panel Thickness | Total Grip | A | B | C | D | E | F | G | |
| Series 40 | 1.2± 0.1 (.050±.005) | 6.4 ± 0.1 (.250 ± .005) | 57 (2.23) | 15 (.58) | 28 (1.11) | 25 (.99) | 47 (1.84) | 13 (.50) | 2 (.08) | A3-40-525-12 |
| | 1.8 $^{+0.1}_{-0.0}$ (.070 $^{+.005}_{-.000}$) | 6.6 ± 0.1 (.260 ± .005) | 57 (2.23) | 15 (.58) | 28 (1.11) | 25 (.99) | 47 (1.84) | 13 (.50) | 2 (.08) | A3-40-625-12 |
| Series 50 | 2.2 $^{+0.2}_{-0.0}$ (.090 ± .005) | 6.4 ± 0.1 (.250 ± .005) | 57 (2.23) | 15 (.58) | 47 (1.86) | 44 (1.74) | 47 (1.84) | 13 (.50) | 2 (.08) | A3-50-925-12 |
| Series 90 | 2.2 $^{+0.2}_{-0.0}$ (.090 ± .005) | 6.4 ± 0.1 (.250 ± .005) | 57 (2.23) | 21 (.81) | 50 (1.95) | 44 (1.74) | 48 (1.87) | 19 (.74) | 2 (.08) | A3-99-122-12 |

For detailed material specifications plus product installation instructions.

www.clancey.com

### PANEL PREPARATION

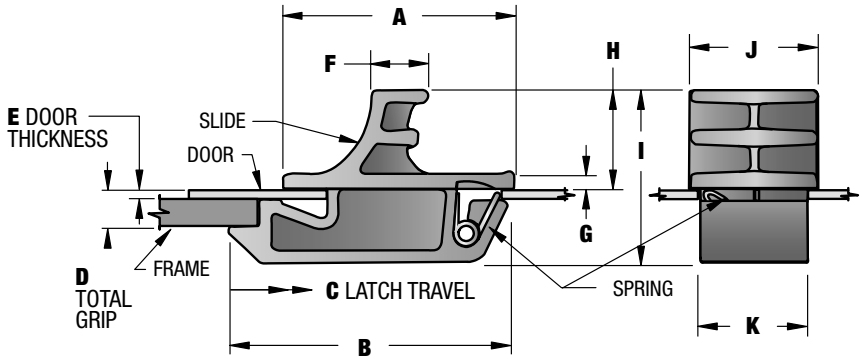



| | SERIES | INSTALLATION | | |
|---|---|---|---|---|
| | | L | W | X |
| FLUSH | Small | 8.33±0.05 (.328±.002) | 4.57±0.05 (.180±.002) | 4.8 ±0.8 (.19±.03) |
| | Medium | 12.7±0.1 (.500±.005) | 7.8±0.05 (.307±.002) | 6.4 ±0.8 (.25±.03) |
| | Large | 22.2±0.1 (.875±.005) | 14.3±0.1 (.562±.005) | 9.5±0.7 (.38±.03) |
| TAB | 40 | 38 $^{+0.2}_{-0.0}$ (1.500±.005) | 25.5 $^{+0.0}_{-0.2}$ (1.00±.005) | 12.5 $^{+1.0}_{-0.5}$ (.50±.03) |
| | 50 | 38 $^{+0.2}_{-0.0}$ (1.500±.005) | 44.5±0.1 (1.75±.005) | 12.5 $^{+1.0}_{-0.5}$ (.50±.03) |
| | 90 | 38 $^{+0.2}_{-0.0}$ (1.500±.005) | 44.5±0.1 (1.75±.005) | 12.5 $^{+1.0}_{-0.5}$ (.50±.03) |

- **New tab style offers easier slide & grip.**
- **Single-hole "snap-in" installation.**
- **Corrosion resistant materials.**

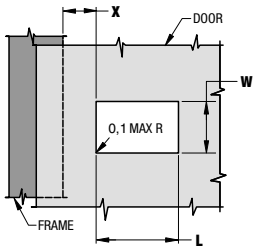
## SLIDE LATCH, ERGO TAB STYLE

NON-CORROSIVE






### PANEL PREPARATION



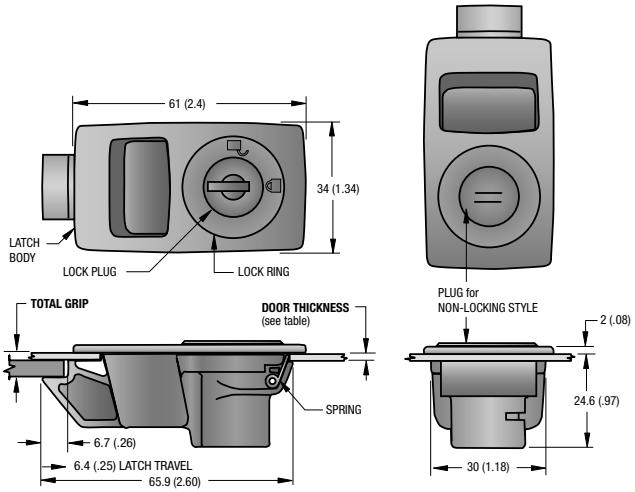

| GRIP | | DIMENSIONS | | | | | | | | | INSTALLATION | | | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E DOOR THICKNESS | D TOTAL GRIP | A | B | C | F | G | H | I | J | K | L | W | X | |
| $1 \pm 0.1^{+0.2}_{0}$ (.04 ± .005) | 3 ± 0.1 (.12 ± .005) | 19 (.75) | 22.2 (.87) | 4 (.16) | 5.1 (.20) | 1.5 (.06) | 8.3 (.33) | 15.5 (.61) | 9.5 (.37) | 7.6 (.30) | 12.7 ± 0.1 (.500 ± .005) | 7.8 ± 0.05 (.307 ± .002) | 6.4 ± 0.8 (.25 ± .03) | A3-70-412-25 |
| 1.2 (.05 ± .005) | 4.8 ± 0.1 (.19 ± .005) | 30.1 (1.19) | 36.3 (1.43) | 4.3 (.17) | 7.2 (.28) | 2.2 (.09) | 12.8 (.50) | 22.4 (.88) | 16.5 (.65) | 14 (.55) | 12.7 ± 0.1 (.500 ± .005) | 14.3 ± 0.1 (.562 ± .005) | 9.5 ± 0.8 (.38 ± .03) | A3-60-519-25 |

- **Integrated lock.**
- **Flush design.**
- **Corrosion resistant materials.**

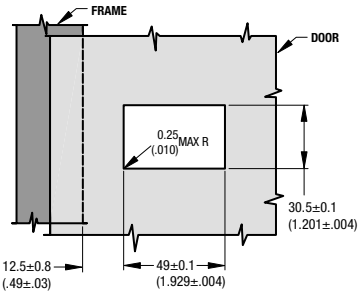
## SLIDE LATCH, LOCKING

NON-CORROSIVE






### PANEL PREPARATION




| GRIP | | | PART NUMBERS | |
|---|---|---|---|---|
| DOOR THICKNESS | | TOTAL GRIP | LOCKING | NON-LOCKING |
| MIN. | MAX | | | |
| .8 (.031) | 1.2 (.047) | 6.4 ± 0.1 (.250 ± .005) | A3-85-525-12 | A3-80-525-12 |
| 1.3 (.051) | 1.6 (.062) | | A3-85-625-12 | A3-80-625-12 |

**NOTE: Order keys separately.**

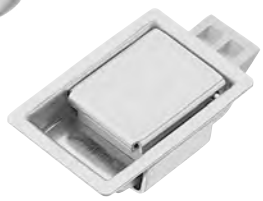
| Key PART NUMBERS | |
|---|---|
| Flat Keys (2 per ring) | PK-10-01 |
| Overmolded Keys (2 per ring) | PK-10-01-05 |

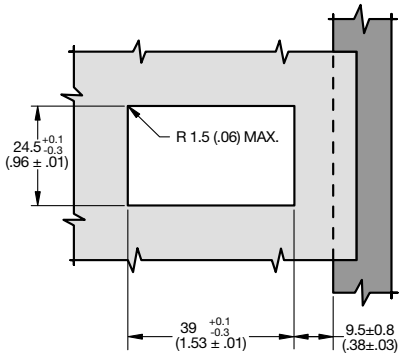
## PADDLE LATCH SERIES, MINIATURE SIZE

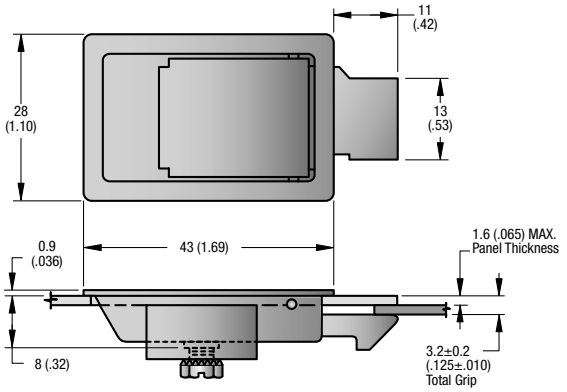
- Plastic slide.
- Flush mount.
- Single hole installation.

STAINLESS

NSF






| PART NUMBER |
|---|
| 64-01-10 |

## PADDLE LATCH SERIES, SMALL SIZE

- Accommodates many grip and panel thicknesses.
- Available in stainless steel with black powder coat finish. Change last digit in the part number to "5". Example 64-10-111-55.

STAINLESS

NSF



Style 2



Style 3

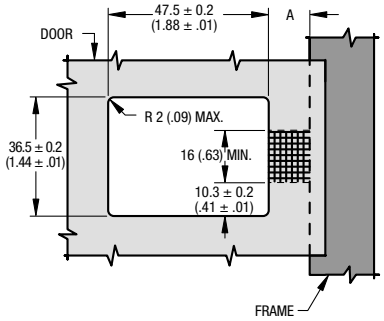




Style 5

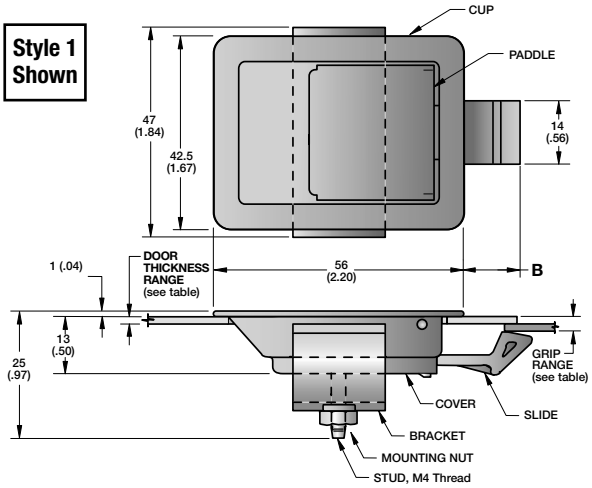


### PANEL PREPARATION




**Door thickness must not exceed "T" dimension (see table) in area through which slide will operate. It may be necessary to reduce thickness of door in the area indicated by grid.**

**Style 1 Shown**




| GRIP RANGE | | PART NUMBERS | | | | Pawl Style | T | A | | B |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Door Thickness Range | | | | | | | | |
| MIN. | MAX. | 3.7 (.144) MAX. | 3.9 (.154) to 7.3 (.288) | 11.1 (.437) to 14.6 (.576) | 18.6 (.734) to 22 (.868) | | | MIN. | MAX. | |
| Brushed Finish | | | | | | | | | | |
| 1.2 (.05) | 2 (.08) | 64-10-111-50 | | | | 1 | 1.6 (.063) | 10.4 (.41) | 12.7 (.50) | 12.4 (.49) |
| 2.8 (.11) | 3.6 (.14) | 64-10-113-50 | 64-10-133-50 | | | 2 | 3.2 (.125) | 11.9 (.47) | 14.2 (.56) | 14.2 (.56) |
| 6 (.23) | 6.7 (.27) | 64-10-124-50 | 64-10-114-50 | | | 3 | 6.4 (.250) | | | |
| 12.3 (.48) | 13.1 (.52) | 64-10-125-50 | 64-10-135-50 | 64-10-115-50 | 64-10-115-50 | 4 | 7.1 (.281) | | | |
| 18.6 (.73) | 19.4 (.77) | 64-10-126-50 | | 64-10-116-50 | 64-10-116-50 | 5 | 7.1 (.281) | | | |

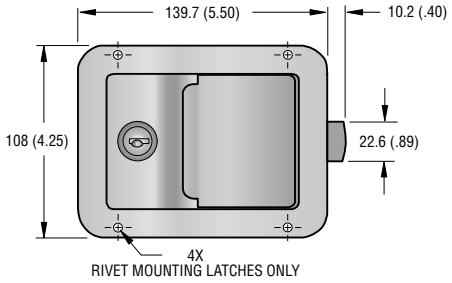
- Larger sizes of Southco® paddle latches are available. Please call.

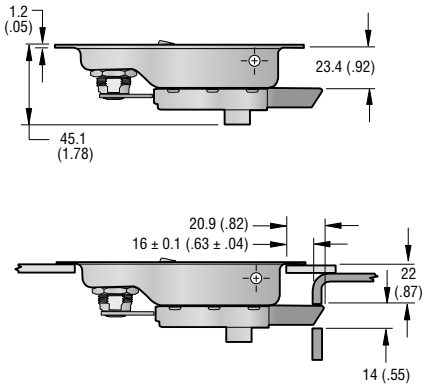
For detailed material specifications plus product installation instructions.

www.clancey.com

- Locking or non-locking.
- Weld-on or rivet mounting.
- Can be opened from back of the latch.
- 3 steel finishes and stainless steel available.

## PADDLE LATCH SERIES, LARGE SIZE, SLIDE BOLT

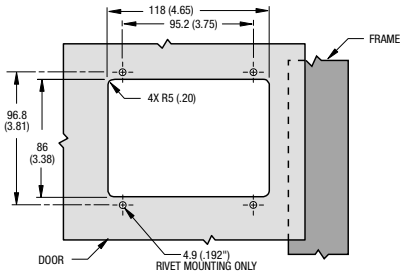





STAINLESS STEEL AVAILABLE

### PANEL PREPARATION

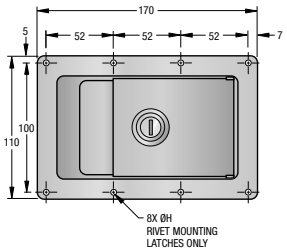



| Installation | Stainless Steel Part Numbers | | Steel, Zinc Plate Part Numbers | | Steel, pre-plated (to paint) Part Numbers | | Steel, Black Finish Part Numbers | |
|---|---|---|---|---|---|---|---|---|
| | Non-Locking | Locking | Non-Locking | Locking | Non-Locking | Locking | Non-Locking | Locking |
| Weld | 64-50-400-20 | 64-50-410-20 | 64-50-400-10 | 64-50-410-10 | 64-50-400-30 | 64-50-410-30 | 64-50-400-50 | 64-50-410-50 |
| 3/16" Rivet | 64-50-401-20 | 64-50-411-20 | 64-50-401-10 | 64-50-411-10 | 64-50-401-30 | 64-50-411-30 | 64-50-401-50 | 64-50-411-50 |

**NOTE:** Locking latches supplied w/ 2 keys.

- Locking or non-locking.
- Weld-on or rivet mounting.
- Heavy-duty Pivot Pawl action.
- Steel or stainless steel.
- Attractive black power coat.

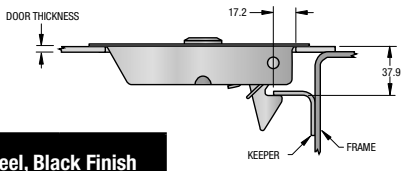
## PADDLE LATCH SERIES, LARGE SIZE, HEAVY DUTY PIVOT



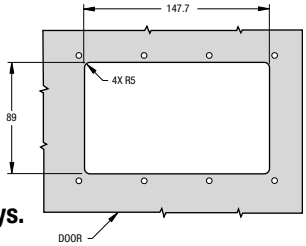

STAINLESS STEEL AVAILABLE



| Installation | Stainless Steel Part Numbers | | Stainless Steel, Black Finish Part Numbers | |
|---|---|---|---|---|
| | Locking | Non-Locking | Locking | Non-Locking |
| Weld | 64-60-500-20 | 64-60-510-20 | 64-60-500-52 | 64-60-510-52 |
| 3/16" Rivet | 64-60-501-20 | 64-60-511-20 | 64-60-501-52 | 64-60-511-52 |




### PANEL PREPARATION




| Installation | Steel, Zinc Plate Part Numbers | | Steel, pre-plated (to paint) Part Numbers | | Steel, Black Finish Part Numbers | |
|---|---|---|---|---|---|---|
| | Locking | Non-Locking | Locking | Non-Locking | Locking | Non-Locking |
| Weld | 64-60-500-10 | 64-60-510-10 | 64-60-500-30 | 64-60-510-30 | 64-60-500-50 | 64-60-510-50 |
| 3/16" Rivet | 64-60-501-10 | 64-60-511-10 | 64-60-501-30 | 64-60-511-30 | 64-60-501-50 | 64-60-511-50 |

**NOTE:** Locking latches supplied w/ 2 keys.

EXPANDED RANGE

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

## FLUSH PULL LATCH

STAINLESS STEEL AVAILABLE

NON-CORROSIVE



Plastic version





Stainless version

2.50" Stainless "New Size"

- Stainless steel or non corrosive composite materials.
- 2 sizes in stainless steel.
- 3 standard composite colors.
- Inside actuation when locked or unlocked.
- Easy single hole installation.
- Latch and handle in one.

For detailed material specifications plus product installation instructions.

www.clancey.com

**Composite Materials (Plastic)**

| Panel Thickness "A" | |  2.00" Non-Locking | | |  2.00" Standard Locking | | | Pawl Grip | Mounting Hole Size "B" | "C" +/- 1.5 (+/- .06") | "D" +/- 1 (+/- .04") |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min. | Max. | Part Number | | | Part Number | | | | | | |
| | | Black | White | Beige | Black | White | Beige | | | | |
| 2 (.075") | 7 (.275") | M1-61 | M1-61-1 | M1-61-7 | M1-41 | M1-41-1 | M1-41-7 | 25.4 (1.00") | 50 (2.00") | 41 (1.62") | 33 (1.30") |
| 7 (.275") | 12 (.475") | M1-62 | M1-62-1 | M1-62-7 | M1-42 | M1-42-1 | M1-42-7 | | | | |
| 12 (.475") | 17 (.675") | M1-63 | M1-63-1 | M1-63-7 | M1-43 | M1-43-1 | M1-43-7 | | | | |
| 17 (.675") | 22 (.875") | M1-64 | M1-64-1 | M1-64-7 | M1-44 | M1-44-1 | M1-44-7 | | | | |

**Stainless Steel**

| Panel Thickness "A" | |  2.00" Non-Locking |  2.00" Std. Locking |  2.00" Three Wafer Key | Pawl Grip | Mounting Hole Size "B" | "C" +/- 1.5 (+/- .06") | "D" +/- 1 (+/- .04") |
|---|---|---|---|---|---|---|---|---|
| Min. | Max. | Part Number | Part Number | Part Number | | | | |
| 2 (.075") | 7 (.275") | M1-61-8 | M1-41-8 | M1-71-8 | 25.4 (1.00") | 50 (2.00") | 41 (1.62") | 33 (1.30") |
| 7 (.275") | 12 (.475") | M1-62-8 | M1-42-8 | M1-72-8 | | | | |
| 12 (.475") | 17 (.675") | M1-63-8 | M1-43-8 | M1-73-8 | | | | |
| 17 (.675") | 22 (.875") | M1-64-8 | M1-44-8 | M1-74-8 | | | | |

**Stainless Steel**

| Panel Thickness "A" | |  2.50" Non-Locking |  2.50" Standard Locking | Pawl Grip | Mounting Hole Size "B" | "C" +/- 1.5 (+/- .06") | "D" +/- 1 (+/- .04") |
|---|---|---|---|---|---|---|---|
| Min. | Max. | Part Number | Part Number | | | | |
| 2 (.075") | 12 (.475") | M1-25-61-18 | M1-25-41-18 | 20 (.75") | 63.5 (2.50") | 52.5 (2.07") | 27 (1.10") |
| | | M1-25-61-28 | M1-25-41-28 | 32 (1.25") | | | 39 (1.54") |
| 12 (.475") | 22 (.875") | M1-25-62-18 | M1-25-42-18 | 20 (.75") | | | 27 (1.10') |
| | | M1-25-62-28 | M1-25-42-28 | 32 (1.25") | | | 39 (1.54") |

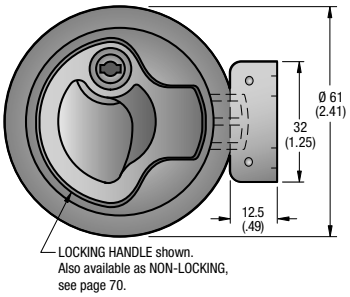
**NOTE:** Locking latches supplied w/ 2 keys.

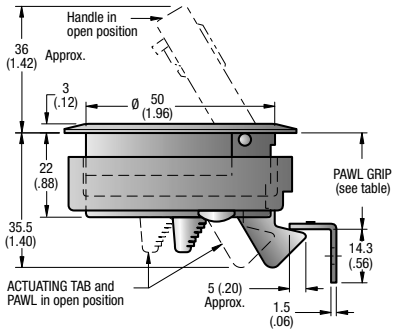
## FLUSH PULL LATCH

STAINLESS STEEL AVAILABLE

NON-CORROSIVE

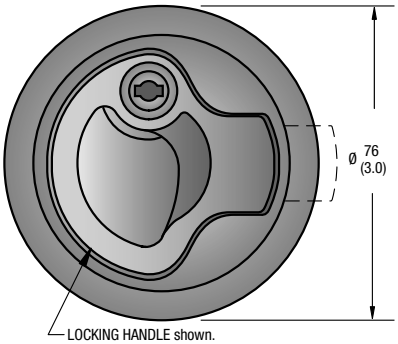
### 2.00" Medium size

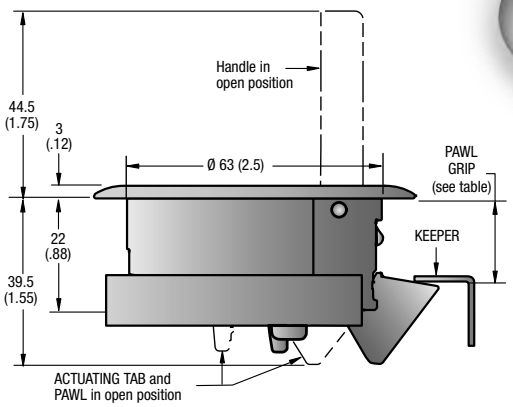



**For detailed material specifications plus product installation instructions.**
**www.clancey.com**

### 2.50" Large size.




### ECONOMY VERSION

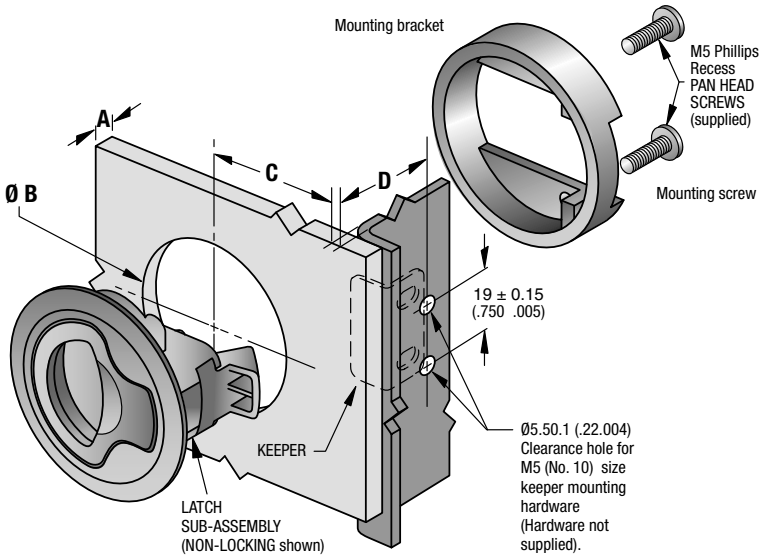
## FLUSH SIMPLICITY™



- **Same mounting as 2.00" flush pull latch.**
- **No inside actuation.**

| DOOR THICKNESS RANGE | A | B | PART NUMBER |
|---|---|---|---|
| 1 (.04) - 7 (.28) | 16 (.63) | 20.4 (.80) | **M1-81** |
| 7 (.28) - 13 (.51) | 16 (.63) | 14.3 (.57) | **M1-82** |
| 13 (.51) - 19 (.75) | 22 (.87) | 14.3 (.57) | **M1-83** |

### PANEL PREPARATION/INSTALLATION



CAD POWERED

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## BEETLE™ LATCH

STAINLESS STEEL AVAILABLE

NON-CORROSIVE

- Modern styling.
- Adjustable cam accommodates panel variation.
- Full size lock plug adds security.
- Rattle resistant, spring loaded handle.
- Corrosion resistant materials.

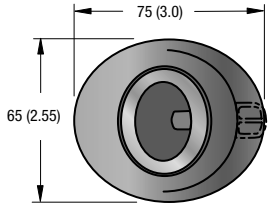
Black composite housing, locking.

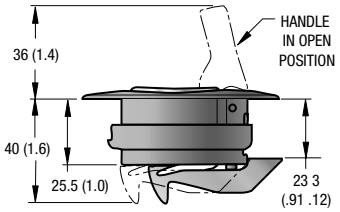




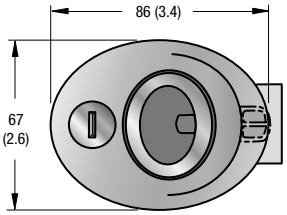
Stainless Cover, non-locking

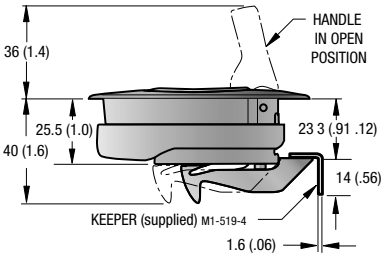
### Non-locking



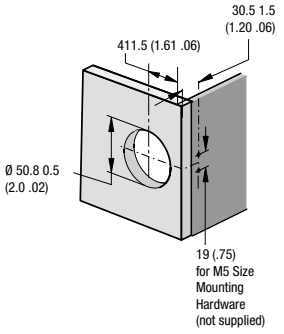

### Locking



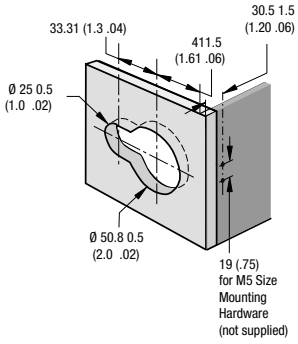




### PANEL PREPARATION

NON-LOCKING




LOCKING

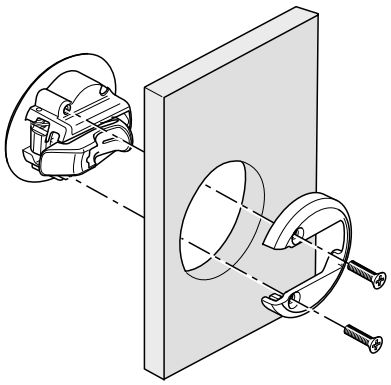



| PANEL THICKNESS | | PART NUMBERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | NON-LOCKING | | | LOCKING (2 flat keys on a ring supplied) | | |
| MIN. | MAX. | Stainless Steel Cover over Black Housing | Black Housing | White Housing | Stainless Steel Cover over Black Housing | Black Housing | White Housing |
| 10 (.39) | 16 (.63) | MP-03-100-000 | MP-03-100-550 | MP-03-100-770 | MP-03-110-000 | MP-03-110-550 | MP-03-110-770 |
| 16 (.63) | 22 (.87) | MP-03-101-000 | MP-03-101-550 | MP-03-101-770 | MP-03-111-000 | MP-03-111-550 | MP-03-111-770 |

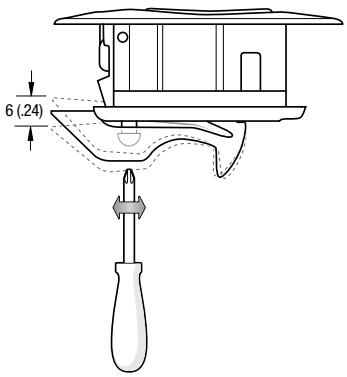
**NOTE:**
- Handles on all models are stainless steel.
- Locking latches supplied w/ 2 keys.

For detailed material specifications plus product installation instructions.
www.clancey.com

### Installation



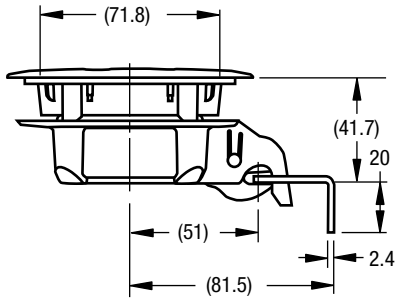
### Adjusting

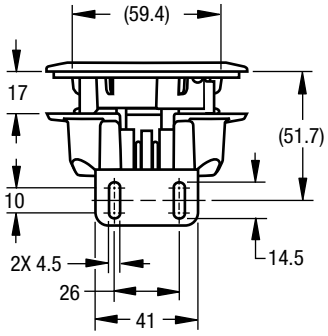


- **4 way orientation of latch pawl.**
- **Corrosion resistant materials.**
- **Rotary action cam delivers easy closing and opening.**

## COMPASS LATCH

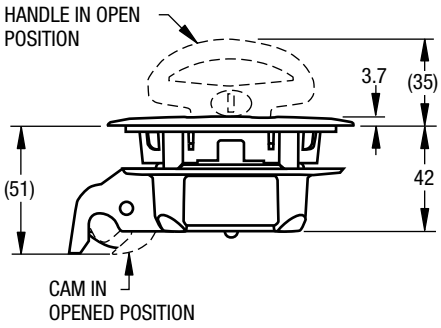
NON-CORROSIVE





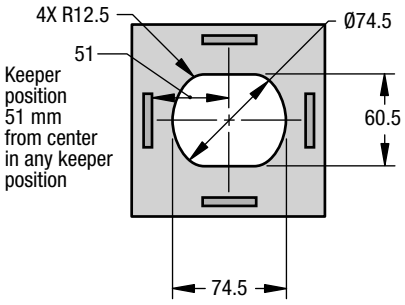

**Chrome Face Locking (shown)**




**Keeper (order separately)**

| KEEPER PART NUMBER |
|---|
| R4-64-11 |

### PANEL PREPARATION




**Ordering instructions:**

1. **Determine panel thickness.**
2. **Order latch, spacers (if necessary), and keeper.**

| Panel Thickness | | Non-Locking Latch Part Numbers | | | Locking Latch Part Numbers | | | Order 4mm Spacers R4-64-13-1 | Order 8mm Spacers R4-64-13-2 |
|---|---|---|---|---|---|---|---|---|---|
| Min. | Max. | Black | White | Chrome | Black | White | Chrome | | |
| 1 (.040") | 4.9 (.19") | R4-60-200-55 | R4-60-200-75 | R4-60-200-35 | R4-60-210-55 | R4-60-210-75 | R4-60-210-35 | - | 2 |
| 5 (.20") | 9.9 (.39") | | | | | | | 1 | 1 |
| 10 (.39") | 14.9 (.59") | | | | | | | - | 1 |
| 15 (.59") | 19.9 (.78") | | | | | | | 1 | - |
| 20 (.79") | 23 (.94") | | | | | | | - | - |

**NOTE: Locking latches are supplied w/ 2 standardkeys.**

**For detailed material specifications plus product installation instructions.**

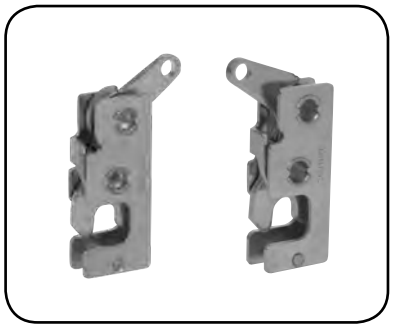
**www.clancey.com**

# LATCHES
## PUSH TO CLOSE

CAD POWERED

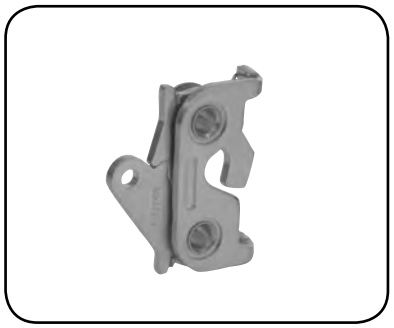
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| | ROTARY LATCHES | PRODUCT FAMILY | LOAD RATING | SINGLE OR DOUBLE ROTOR | SINGLE OR TWO STAGE | FEATURES | APPLICATIONS | INDUSTRIES | PAGE |
|---|---|---|---|---|---|---|---|---|---|
| NON- FMVSS COMPLIANT |  | R4-10 | Light-duty | Single rotor | Single stage | Compact, flexible actuation styles, light-duty, economical | Engine covers, baggage doors, access panels, tool boxes | Off-highway, agricultural, truck, bus, recreational vehicles, industrial equipment, enclosures | 99-102 |
| |  | R4-20 | Medium-duty | Single rotor | Single and two stage | Compact, flexible actuation styles, medium-duty, economical | Engine covers, baggage doors, access panels, tool boxes | Off-highway, agricultural, truck, bus, recreational vehicles, industrial equipment, enclosures | 105 |
| FMVSS COMPLIANT |  | R4-30 | Heavy-duty | Single rotor | Two stage | Significant accommodation for misalignment between the latch and keeper, heavy-duty | Entry doors, engine covers baggage doors, large access panels | Off-highway, agricultural, truck, bus, recreational vehicles, industrial equipment | 103-104 |
| |  | R4-50 | Heavy-duty | Double rotor | Two stage | Maximum accommodation for misalignment between the latch and keeper, heavy-duty | Entry doors, engine covers, baggage doors, large access panels | Off-highway, agricultural, truck, bus, recreational vehicles, industrial equipment | 106 |





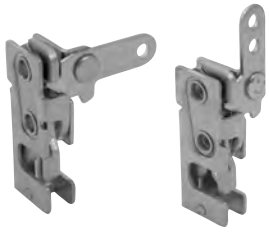




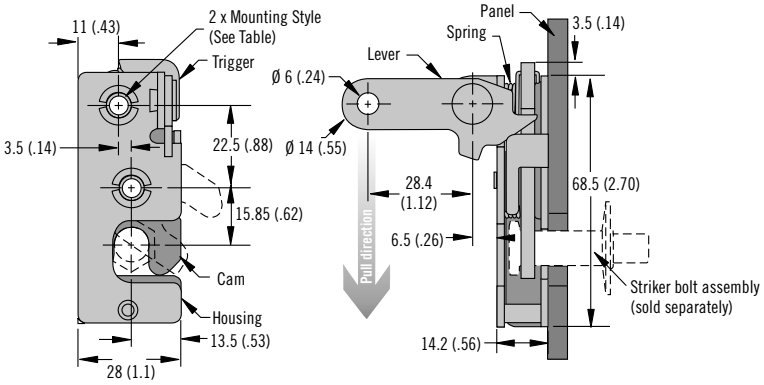


- **Single or multi-point latch capability.**
- **Compatible with wide array of actuators.**

## R4 PUSH TO CLOSE LATCH ROTARY LATCH, MINI, CONCEALED, SINGLE & TWO STAGE



### Lever Type - Perpendicular (Left hand actuation shown)




### Material and Finish

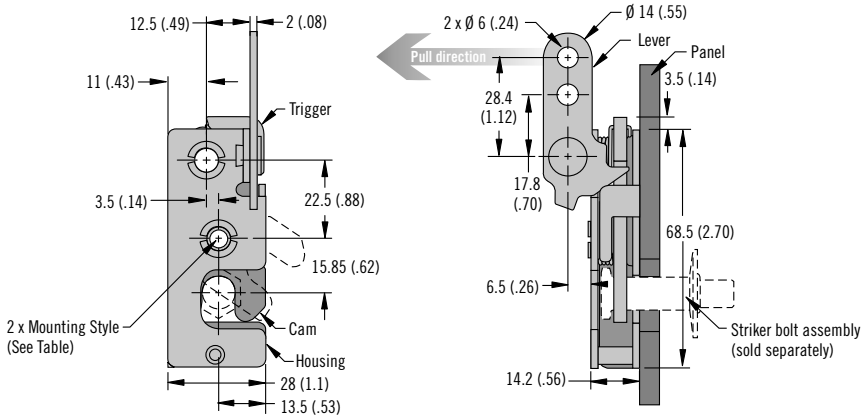
Steel, zinc plated or

304 Stainless Steel, passivated

### Performance Details

Average Ultimate Load
Steel: 4600 N (1100 lbf)
Stainless Steel: 4000 N (900 lbf)

### Lever Type - In-Line (Left hand actuation shown)




### Part Number Selection

**S Stage & Actuation**
**1** Single Stage, Right Hand
**2** Single Stage, Left Hand
**3** Two Stage, Right Hand
**4** Two Stage, Left Hand

**R4 - 10 - S I - L 01 - M**

**L Lever Type**
**1** Perpendicular
**2** In-Line

**I Mounting Style**
**0** Ø7.2 (.283) Thru
**1** 1/4-20 Thread
**2** M6 x 1 Thread

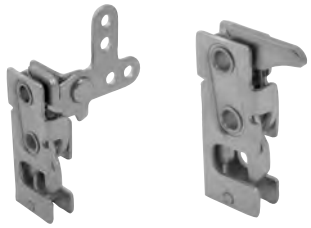
**M Material**
**10** Steel
**20** Stainless Steel (Single Stage Only)

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## R4 PUSH TO CLOSE LATCH ROTARY LATCH, MINI, CONCEALED, SINGLE & TWO STAGE

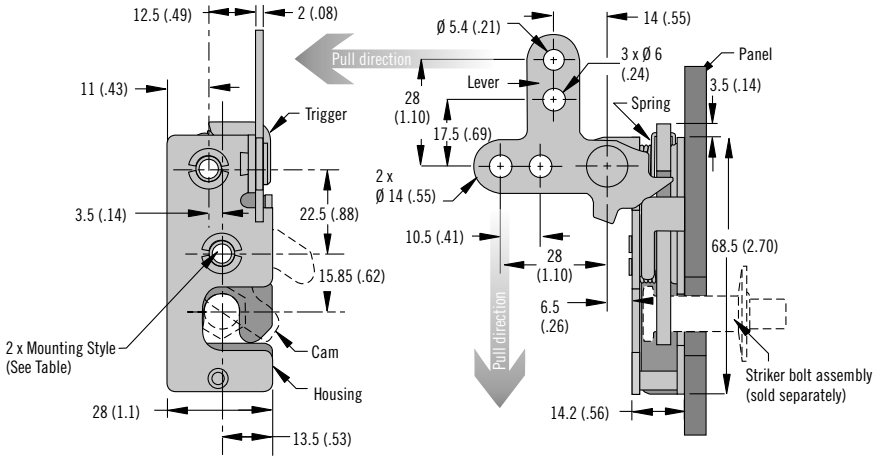
- **Single or multi-point latch capability.**
- **Compatible with wide array of actuators.**



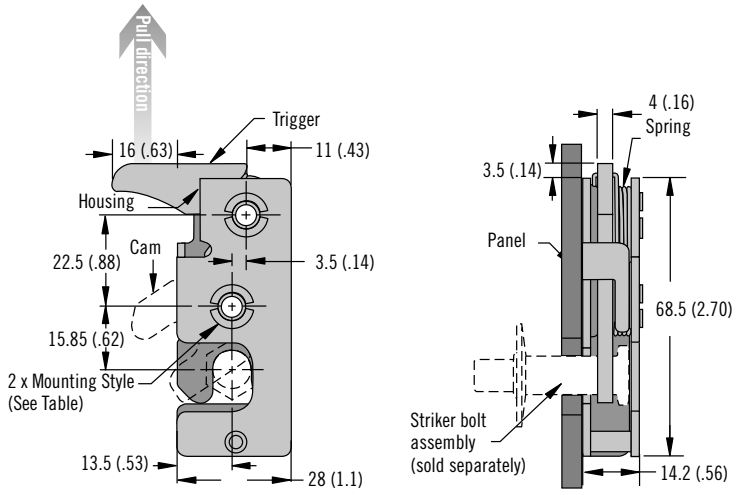
### Material and Finish
Steel, zinc plated or 304 Stainless Steel, passivated

### Performance Details
Average Ultimate Load
Steel: 4600 N (1100 lbf)
Stainless Steel: 4000 N (900 lbf)

### Lever Type - Two Point (Left hand actuation shown)




### Lever Type - Hand Actuation




### Part Number Selection

**S Stage & Actuation**
- **1** Single Stage, Right Hand
- **2** Single Stage, Left Hand
- **3** Two Stage, Right Hand
- **4** Two Stage, Left Hand

**L Lever Type**
- **3** Two Point
- **4** Hand Actuation

**R4 - 10 - S I - L 01 - M**

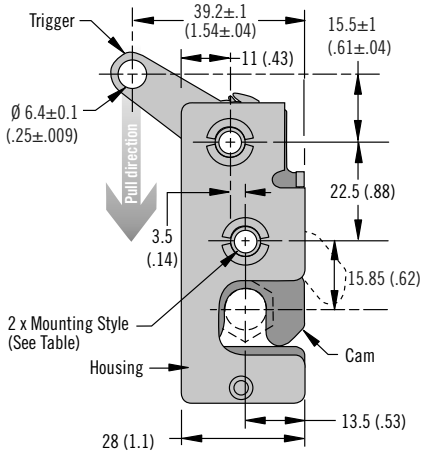
**I Mounting Style**
- **0** Ø7.2 (.283) Thru
- **1** 1/4-20 Thread
- **2** M6 x 1 Thread

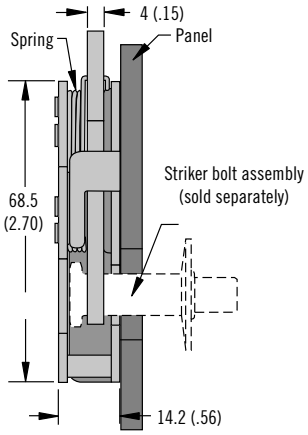
**M Material**
- **10** Steel
- **20** Stainless Steel (Single Stage Only)

- **Single or multi-point latch capability.**
- **Compatible with wide array of actuators.**

## R4 PUSH TO CLOSE LATCH ROTARY LATCH, MINI, CONCEALED, SINGLE & TWO STAGE

### Lever Type Bottom (Left hand actuation shown)





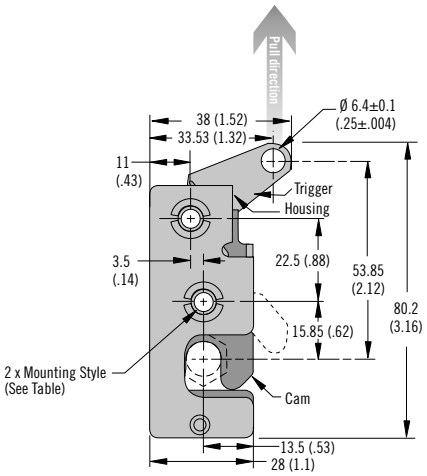

### Material and Finish

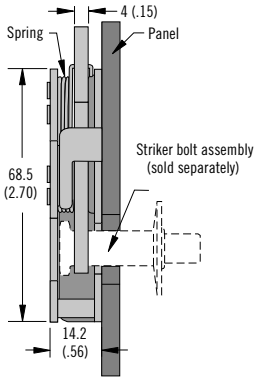
Steel, zinc plated or 304 Stainless Steel, passivated

### Performance Details

Average Ultimate Load
Steel: 4600 N (1100 lbf)
Stainless Steel: 4000 N (900 lbf)

### Lever Type - Top (left hand actuation shown)




### Part Number Selection

**S Stage & Actuation**
**1** Single Stage, Right Hand
**2** Single Stage, Left Hand
**3** Two Stage, Right Hand
**4** Two Stage, Left Hand

**R4 - 10 - S I - L 01 - M**

**L Lever Type**
**5** Bottom
**6** Top

**I Mounting Style**
**0** Ø7.2 (.283) Thru
**1** 1/4-20 Thread
**2** M6 x 1 Thread

**M Material**
**10** Steel
**20** Stainless Steel (Single Stage Only)

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## R4 PUSH TO CLOSE LATCH STRIKER BOLT, MINI, INSTALLATION, ACCESSORIES

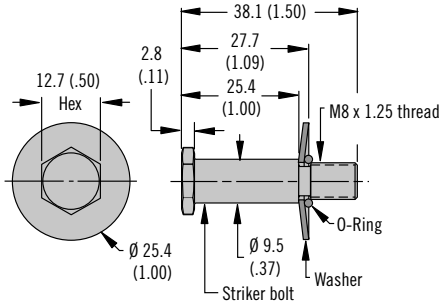
- **Striker bolt for R4-10 series rotary latch.**



### Material and Finish

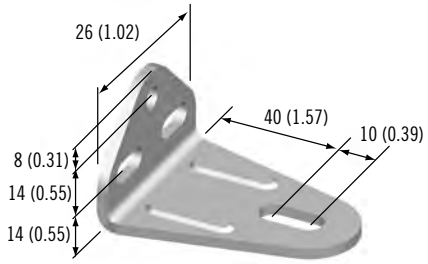
Steel, zinc plated or 304 Stainless Steel, passivated

### Striker Bolt Assembly (sold separately)



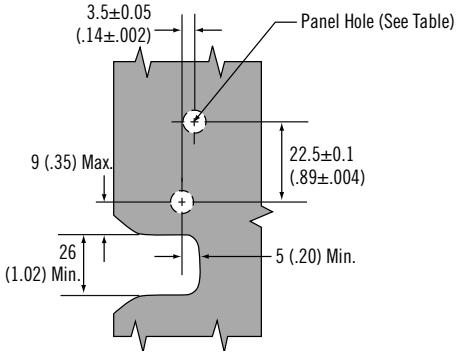

| STRIKER BOLT PART NUMBER | |
|---|---|
| **PART NUMBER** | **MATERIAL** |
| **R4-90-121-10** | Steel |
| **R4-90-121-20** | Stainless Steel |

### Striker 90° Mounting Bracket



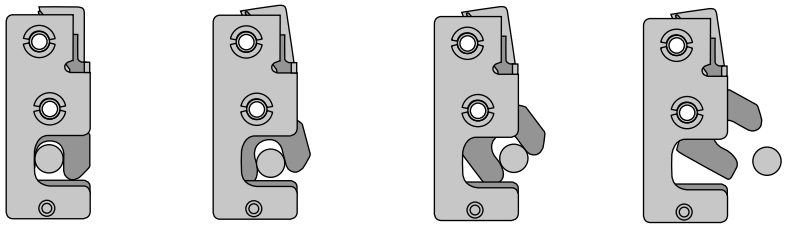

| STRIKER MOUNTING BRACKET PART NUMBER |
|---|
| **R4-0-50114** |

### Panel Preparation




| MOUNTING STYLE | PANEL HOLE |
|---|---|
| Ø 7.2 (.283) Thru | Ø 7.6 (.299) |
| 1/4-20 Thread | Ø 6.8 (.268) |
| M6 X 1 Thread | Ø 6.4 (.252) |

### Operation



Latched position ⟷ Unlatched position

- **Single or multi-point latch capability.**
- **Compatible with wide array of actuators**
- **FMVSS 206 compliant.**

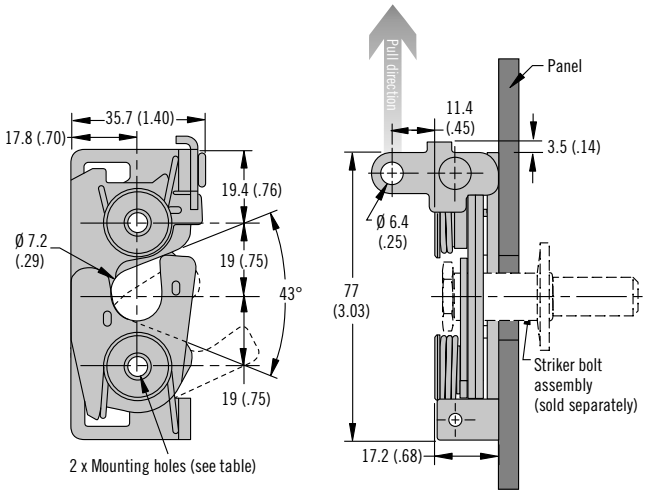
## R4 PUSH TO CLOSE LATCH ROTARY LATCH, LARGE, CONCEALED, TWO STAGE



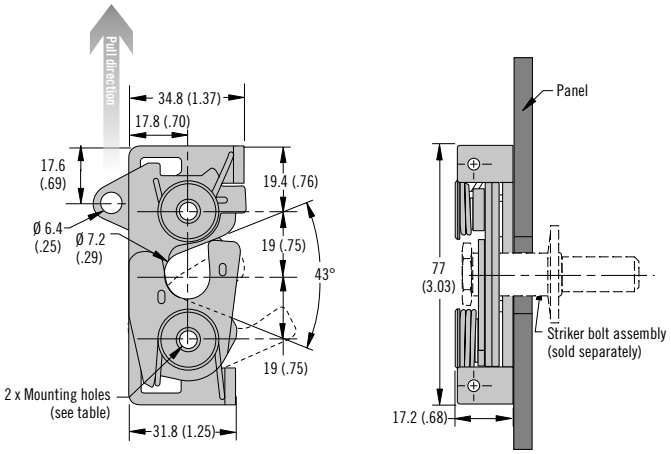
### Material and Finish
Steel, zinc plated

### Performance Details
Average ultimate load:
10675 N (2400) as shown
14230 N (3200 lbf) with support bracket. Contact Clancey for more information.

### Two Stage - Perpendicular (left hand actuation shown)




### Two Stage - Bottom (left hand actuation shown)




| MOUNTING STYLE | PART NUMBER | | | |
|---|---|---|---|---|
| | PERPENDICULAR | | BOTTOM | |
| | Left hand actuation | Right hand actuation | Left hand actuation | Right hand actuation |
| Ø 6.7 (.265) Thru | **R4-30-40-101-10** | **R4-30-30-101-10** | **R4-30-40-501-10** | **R4-30-30-501-10** |
| 1/4-20 Thread | **R4-30-41-101-10** | **R4-30-31-101-10** | **R4-30-41-501-10** | **R4-30-31-501-10** |
| M6 x 1 Thread | **R4-30-42-101-10** | **R4-30-32-101-10** | **R4-30-42-501-10** | **R4-30-32-501-10** |

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## R4 PUSH TO CLOSE LATCH ROTARY LATCH, LARGE, CONCEALED, TWO STAGE

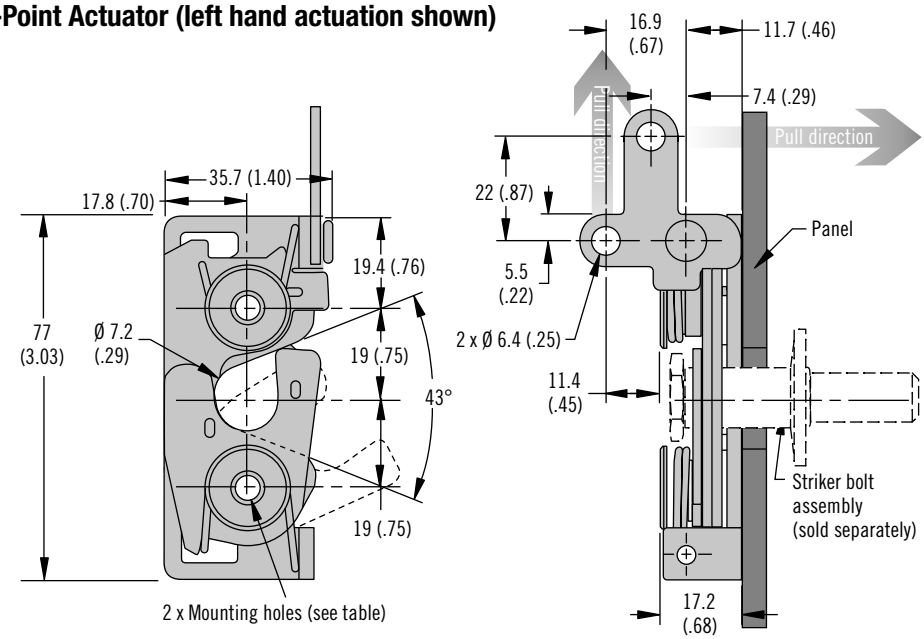
- **Single or multi-point latch capability.**
- **Compatible with wide array of actuators.**
- **FMVSS 206 compliant.**



### Material and Finish
Steel, zinc plated

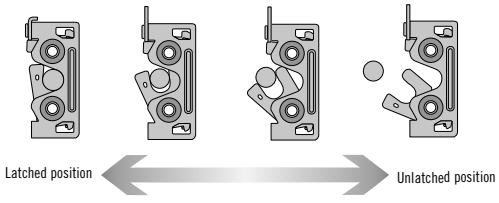
### Performance Details
Average ultimate load:
10675 N (2400) as shown
14230 N (3200 lbf) with support bracket.
Contact Clancey for more information.

### 2-Point Actuator (left hand actuation shown)

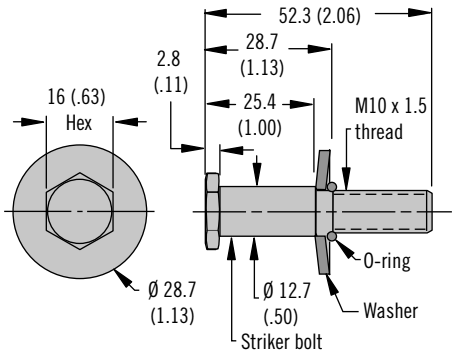



| MOUNTING HOLE | PART NUMBER LEFT HAND ACTUATION | PART NUMBER RIGHT HAND ACTUATION |
|---|---|---|
| Ø 6.7 (.265) Thru | **R4-30-40-301-10** | **R4-30-30-301-10** |
| 1/4-20 Thread | **R4-30-41-301-10** | **R4-30-31-301-10** |
| M6 X 1 Thread | **R4-30-42-301-10** | **R4-30-32-301-10** |

### Operation



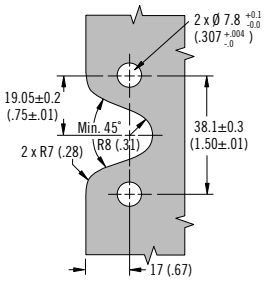

### Striker Bolt Assembly (sold separately)




| STRIKER BOLT PART NUMBER |
|---|
| **R4-90-321-10** |

- **Striker bolt for R4-30 series rotary latch**

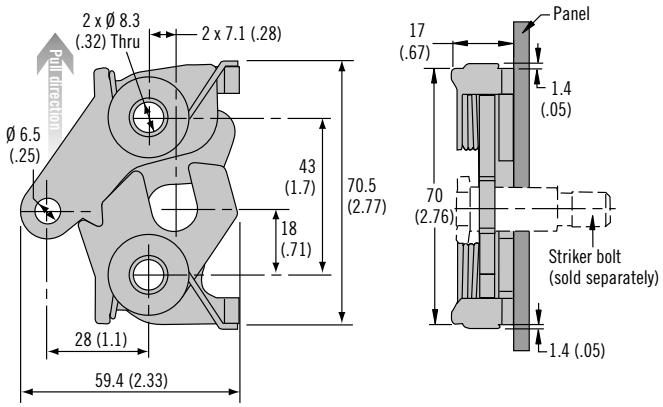
### Material and Finish
Steel, zinc plated



- **Single or multi-point latch capability.**
- **Compatible with wide array of Actuators.**

## R4 PUSH TO CLOSE LATCH ROTARY LATCH, MEDIUM, CONCEALED, SINGLE & TWO STAGE

### Single Stage (left hand actuation shown)

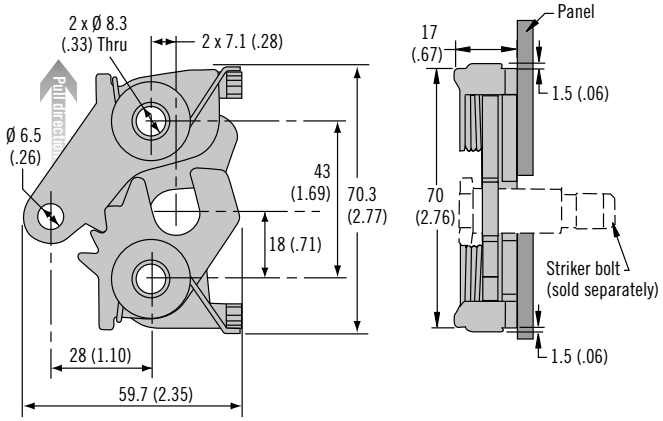




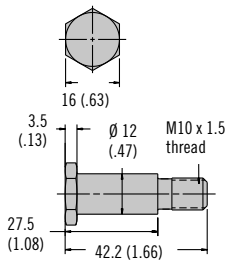

**Material and Finish**
Steel, zinc plated

**Accessories**
Cables and retainer clips

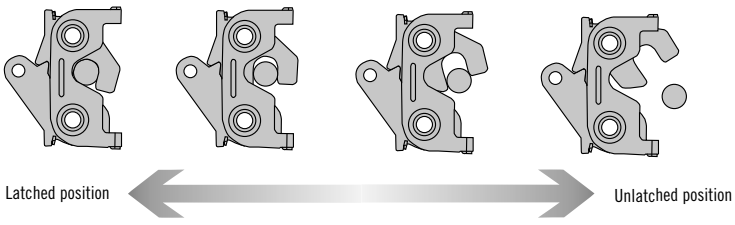
### Two Stage (left hand actuation shown)




### Striker Bolt (sold separately)




### Operation




| POSITION | PART NUMBER | | |
|---|---|---|---|
| | LEFT HAND ACTUATION | RIGHT HAND ACTUATION | STRIKER BOLT |
| Single stage | R4-20-20-501-10 | R4-20-10-501-10 | R4-91-231-10 |
| Two stage | R4-20-40-501-10 | R4-20-30-501-10 | |

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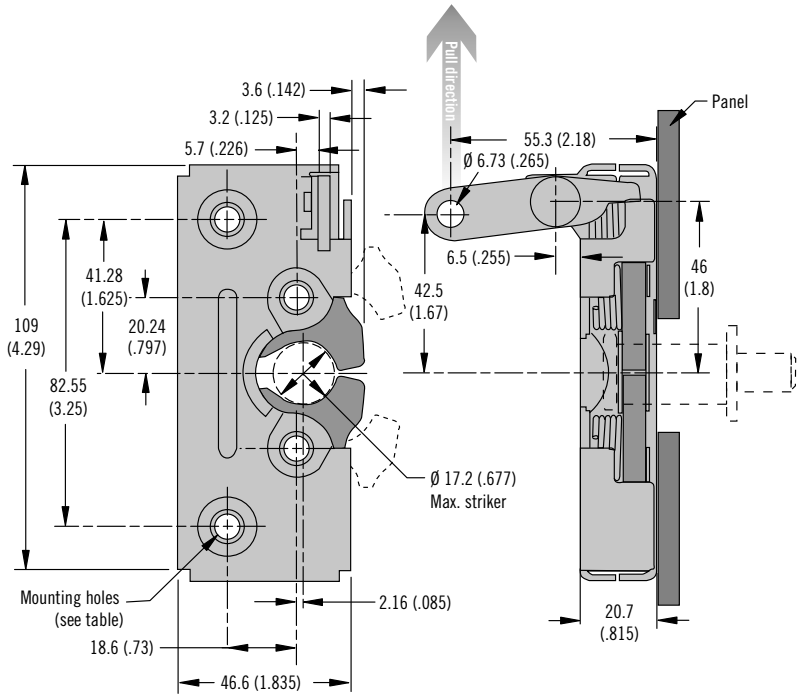
## R4 PUSH TO CLOSE LATCH
## ROTARY LATCH, HEAVY DUTY, TWO STAGE

- **Single or multi-point latch capability.**
- **Compatible with wide array of actuators.**
- **FMVSS 206 compliant.**

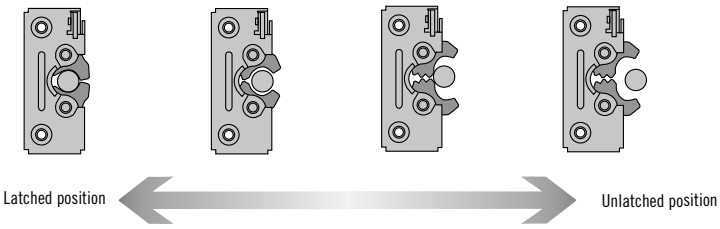


**Material and Finish**
Steel, zinc plated

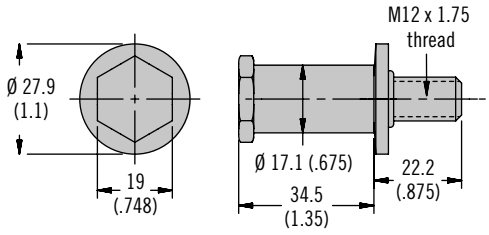
**Two Stage (left hand actuation shown)**




**Operation**




**Striker Bolt Assembly (sold separately)**




| MOUNTING STYLE | PART NUMBER | | |
|---|---|---|---|
| | LEFT HAND ACTUATION | RIGHT HAND ACTUATION | STRIKER BOLT |
| Ø 7.2 (.283) Thru | **R4-50-40-101-10** | **R4-50-30-101-10** | **R4-90-441-10** |
| 1/4-20 Thread | **R4-50-41-101-10** | **R4-50-31-101-10** | |
| M6 X 1 Thread | **R4-50-42-101-10** | **R4-50-32-101-10** | |

## AC-30 MULTI POINT ACTUATOR PUSH-BUTTON

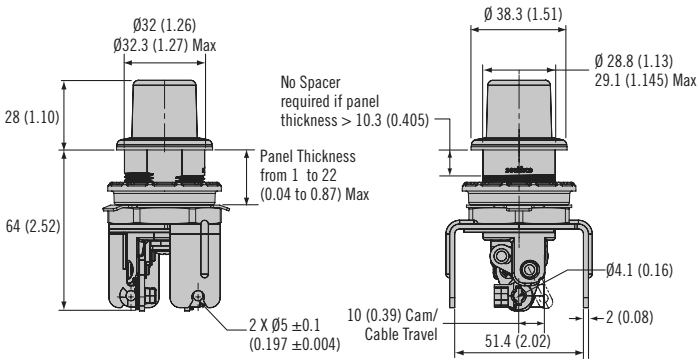
- **Single or multi-point actuation capability.**
- **Accommodates wide panel thickness.**
- **Multiple key code options.**
- **Single hole install.**



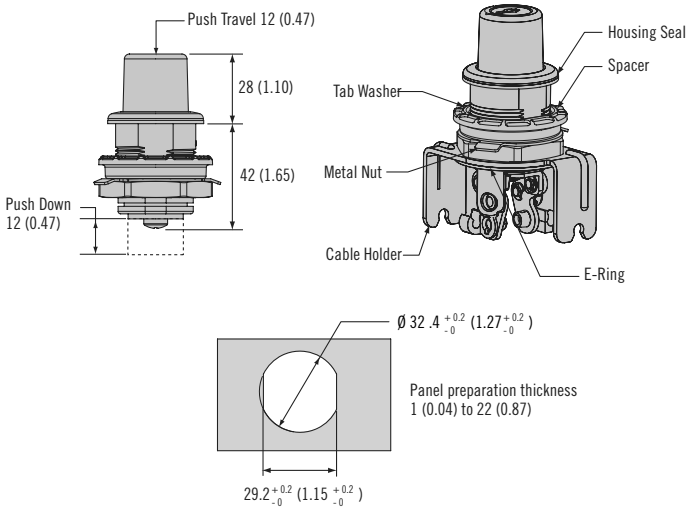
**Material and Finish**

Button: Nylon
Housing: Zinc or Stainless Steel
Lock Plug: Zinc
Cam, Washer, Rivet:
Stainless Steel, Passivated

**With Cam Attachment Shown**




**Without Cam Attachment Shown**




**Part Number Selection**

**E End Style**
1 With Cam attached
3 Without Cam attached

**H Housing Material**
1 Zinc with black powder coat
3 Stainless steel with black powder coat

**B Button Material**
1 Nylon with black molding

**AC - 30 - E L M - H B - KC**

**L Locking Option**
**1** Reversible key (No keys - R001)
2 Reversible key (2 keys included - R001)
3 Reversible key (Multiple key codes - 2 keys included)
4 Standard key (No keys - CH751)
5 Standard key (2 keys included - CH751)
6 Standard key (Multiple key codes - 2 keys included)

**KC Key Codes**
(Omit for locking options 1,2,4 and 5)
KD10 Keyed differently (10 codes)
MK10 Master keyed, keyed differently

**M Mounting Method**
1 With spacer mounting (must have if glass panel)
2 Without spacer mounting

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## AC-40 SINGLE OR MULTI POINT ACTUATOR

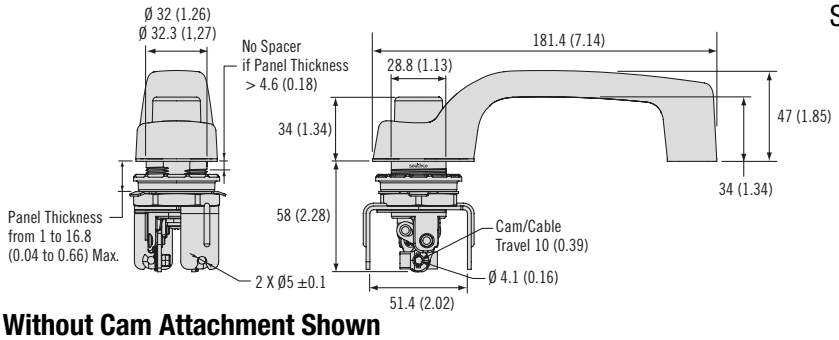


- **Single or multi-point actuation capability.**
- **Accommodates wide panel thickness.**
- **Multiple key code options.**
- **Easy Grip.**

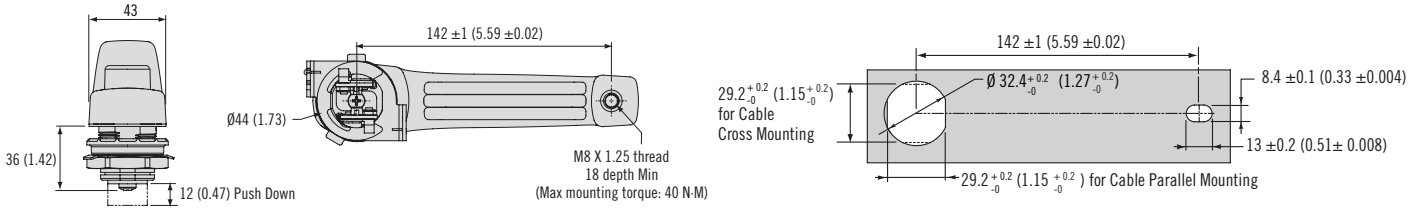
### Material and Finish

Button: Nylon
Housing: Zinc Die Cast or Stainless Steel
Lock Plug: Zinc Die Cast
Cam, Washer, Rivet: Stainless Steel, Passivated

### With Cam Attachment Shown




### Without Cam Attachment Shown




### Part Number Selection

**AC-40 - E L M - H B - KC**

**E End Style**
1 With Cam attached
3 Without Cam attached

**H Handle Material**
1 Black GF nylon with zinc housing insert
2 Black GF nylon with stainless steel housing insert

**B Button Material**
1 Nylon with black molding

**KC Key Codes**
(Omit for locking options 1,2,4 and 5)
**KD10** Keyed differently (10 codes)
**MK10** Master keyed, keyed differently

**L Locking Option**
1 Reversible key (No keys - R001)
2 Reversible key (2 keys included - R001)
3 Reversible key (Multiple key codes - 2 keys included)
4 Standard key (No keys - CH751)
5 Standard key (2 keys included - CH751)
6 Standard key (Multiple key codes - 2 keys included)

**M Mounting Method**
1 Cable parallel (or no cable), with spacer mounting (must have if glass panel)
2 Cable parallel (or no cable), without spacer mounting
3 Cable cross with spacer mounting (must have if glass panel)
4 Cable cross without spacer mounting

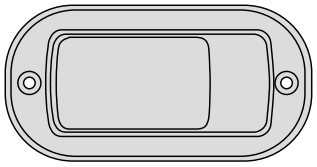
- **Front mount installation.**
- **Three cable mounting options.**
- **Low Profile.**
- **Robust Material.**

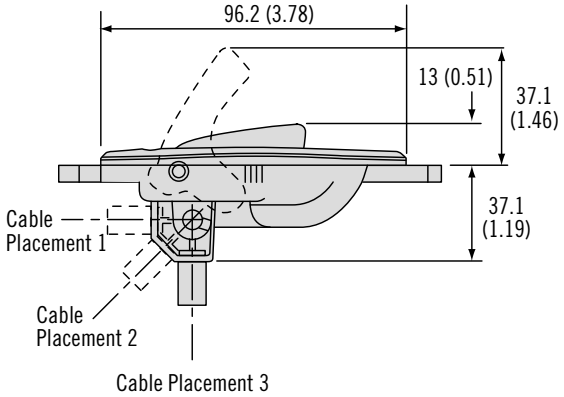
## AC-75 SINGLE POINT ACTUATOR PADDLE

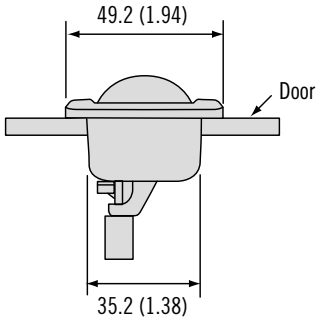
**Material and Finish**

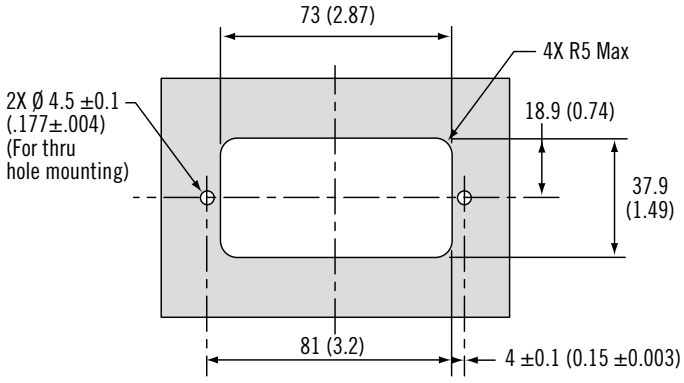
Paddle and housing: Aluminum, black powder coated








| PART NUMBER |
|---|
| AC-75-101-11 |

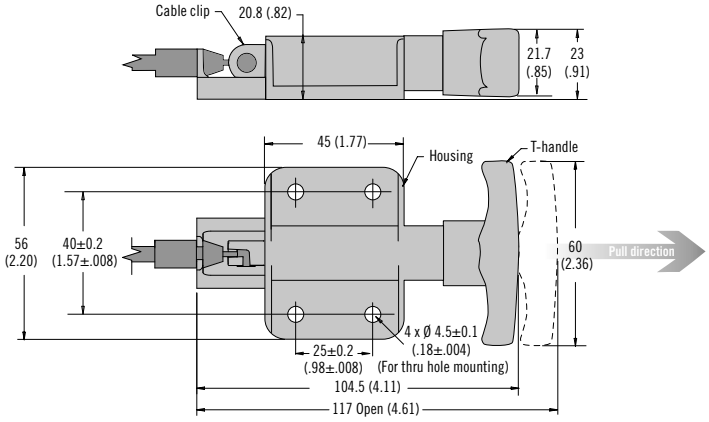
| CABLE ORIENTATION | PANEL THICKNESS | CABLE TRAVEL |
|---|---|---|
| Placement 1 | 12.5 (.49) max. | 11.1 (.44) |
| Placement 2 | 16 (.63) max. | 13.2 (.52) |
| Placement 3 | 16 (.63) max. | 13.2 (.52) |

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southco® AUTHORIZED DISTRIBUTOR

## AC SINGLE POINT ACTUATOR T-HANDLE






- **Surface mount installation**
- **Generous grip area**
- **Pull to activate**

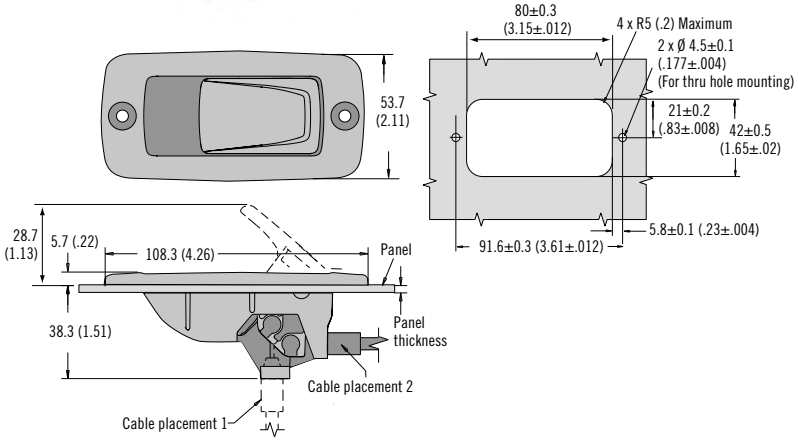
### Material and Finish

Housing: PC/ABS, black
T-handle and slide: 33% glass-filled nylon, black
Clip: acetal, black
Spring: Stainless steel, passivated

| PART NUMBER |
|---|
| AC-60-101-11 |

## AC SINGLE POINT ACTUATOR PADDLE






- **Front mount installation**
- **Flush**
- **Two cable mounting options**

### Material and Finish

Paddle and housing: 33% glass-filled nylon, black
Spring: Stainless steel, passivated

| PART NUMBER |
|---|
| AC-70-101-11 |

| CABLE ORIENTATION | PANEL THICKNESS | CABLE TRAVEL |
|---|---|---|
| Placement 1 | 12.5 (.49) max. | 11.1 (.44) |
| Placement 2 | 16 (.63) max. | 13.2 (.52) |

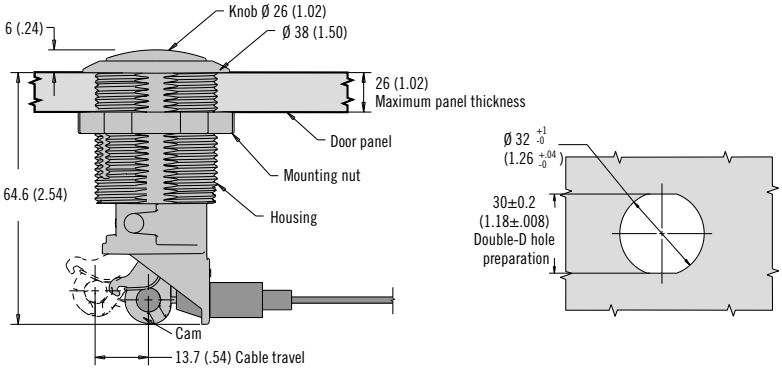
- **Flush**
- **Mounting hardware included**

## AC SINGLE POINT ACTUATOR PUSH-BUTTON

**Material and Finish**

Push button and housing: PC/ABS, black
Cam: 33% glass-filled nylon, black
Spring: Stainless steel, passivated






| PART NUMBER |
|---|
| AC-80-101-11 |

- **For use with Ø 4 (.157) rod or Southco cable assembly**

## AC RETAINER CLIPS AND CABLES

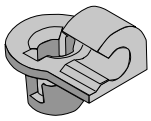
**Material and Finish**

See www.clancey.com



| LATCH SERIES | PART NUMBER |
|---|---|
| | RETAINER CLIP |
| R4-10 | R4-0-43922 |
| R4-30 | |
| R4-20 | R4-0-43922-1 |
| R4-50 | |

**Retainer clip**



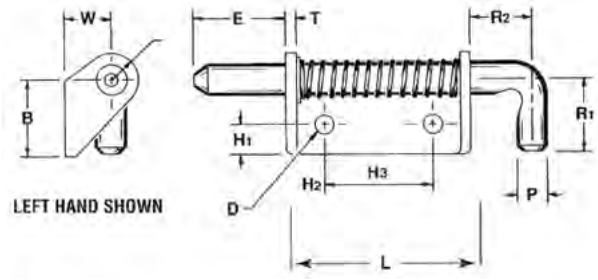
CAD POWERED

## SPRING-ACTION LATCH HEAVY – DUTY

- Easy operation.
- Stainless available.
- Unassembled can be used in either hand.

STAINLESS STEEL AVAILABLE






| | | Primary Dimensions | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PART NUMBER | Style | P | E | R1 | R2 | L | W | B | T | H1 | H2 | H3 | D |
| 719-SL-Z | Left hand | .375" | 1.25" | 1.18" | .687" | 2.00" | .656" | 1.12" | .120" | .375" | .437" | 1.25" | .265" |
| 719-SR-Z | Right Hand | | | | | | | | | | | | |
| 719-SU-Z | Unassembled | | | | | | | | | | | | |
| 720-SL-Z | Left hand | .500" | 1.50" | 1.22" | 1.00" | 3.00" | .750" | 1.25" | .190" | .500" | .625" | 1.75" | .328" |
| 720-SR-Z | Right Hand | | | | | | | | | | | | |
| 720-SU-Z | Unassembled | | | | | | | | | | | | |

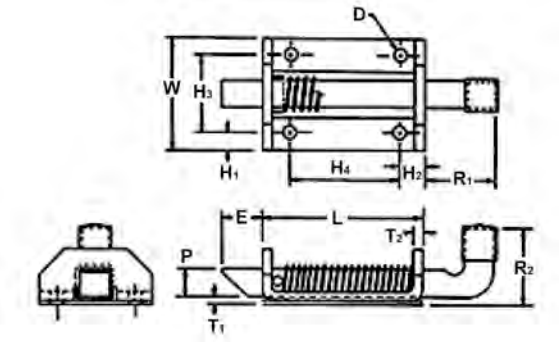
Note: For Stainless Steel assemblies, add "-S" to the part number.

## SPRING-ACTION LATCH BOLT STYLE

- Rugged design
- Optional cover for spring.

STAINLESS STEEL AVAILABLE





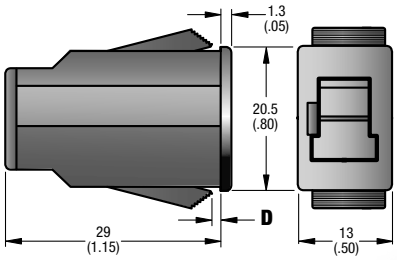

| | | Primary Dimensions | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PART NUMBER | Style | P | E | R1 | R2 | L | W | T1 | T2 | H1 | H2 | H3 | H4 | D |
| 707-SZ-COV | covered | .375" | .562" | .812" | 1.00" | 1.50" | 1.25" | .115" | .090" | .187" | .375" | .750" | .875" | .171" |
| 707-SZ | uncovered | | | | | | | | | | | | | |
| 708-SZ-COV | covered | .437" | .750" | 1.00" | 1.25" | 2.00" | 1.63" | .125" | .120" | .250" | .375" | 1.25" | 1.13" | .230" |
| 708-SZ | uncovered | | | | | | | | | | | | | |
| 709-SZ-COV | covered | .500" | .750" | 1.25" | 1.38" | 2.88" | 2.00" | .150" | .190" | .312" | .468" | 1.93" | 1.38" | .265" |
| 709-SZ | uncovered | | | | | | | | | | | | | |

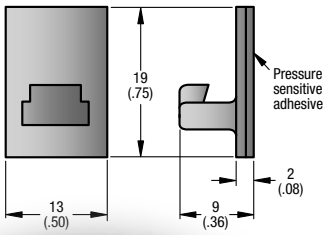
Note: For Stainless Steel assemblies, add "-S" to the part number.

## TOUCH LATCH, SNAP-IN DESIGN

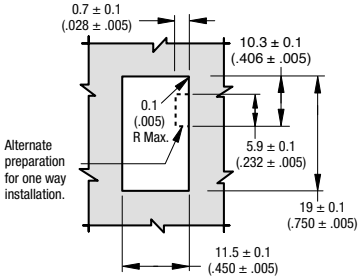
- Push the door to latch and unlatch.
- "Snap-in" installation.
- Self-adhesive keeper.






### PANEL PREPARATION




| FRAME THICKNESS | | D | PART NUMBER |
|---|---|---|---|
| MIN. | MAX. | | |
| 1 (.04) | 3 (.12) | 0.9 (.035) | E4-10-201-10 |
| 3 (.12) | 5 (.20) | 2.9 (.115) | E4-10-202-10 |
| 5 (.20) | 7 (.28) | 4.9 (.195) | E4-10-203-10 |

Other sizes of snap-in touch latches are available.
www.clancey.com

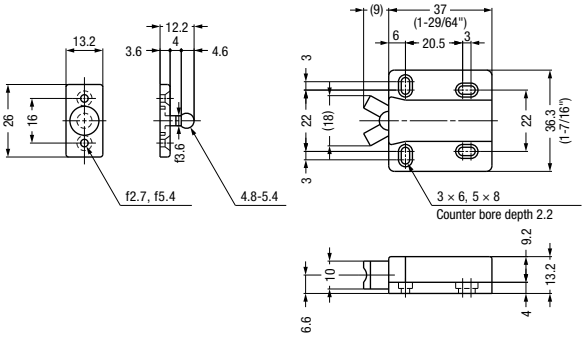
## TOUCH LATCH, SCREW MOUNT

- Push the door to latch/unlatch.
- Screw mounting is ideal for wood cabinets.
- 2 sizes.

### SMALL SIZE

- 6.6 lbs retaining force.
- Supplied w/ mounting screws.



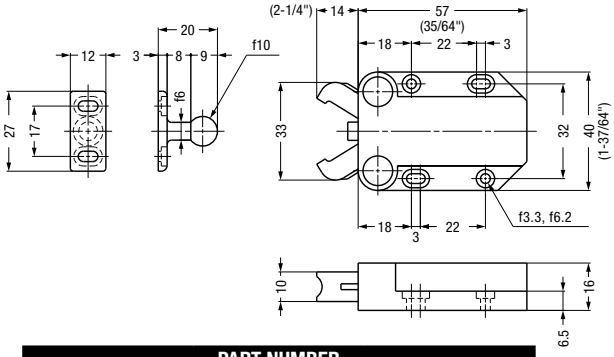



| PART NUMBER |
|---|
| MC-28 |

### LARGE SIZE

- 8.8 lbs retaining force.
- Supplied w/ mounting screws.






| PART NUMBER | | |
|---|---|---|
| Black | White | Brown |
| MC-37-BLK | MC-37-WHT | MC-37-BRN |

## MAGNETIC TOUCH LATCHES

- 3 Styles of magnetic closure.
- Touch action"pushes" door open breaking the magnetic connection.
- Mounting screws are supplied.

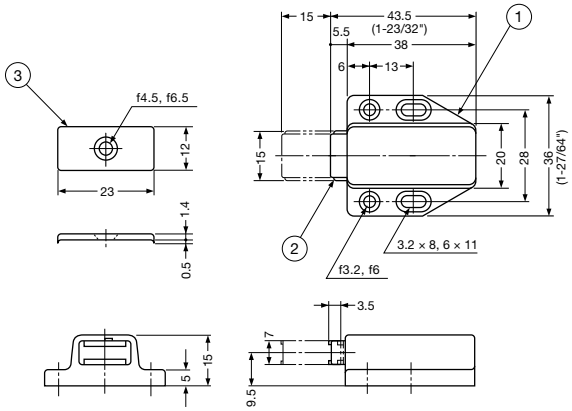
## STANDARD SERIES

- 3 colors.
- 3.5 lbs. holding force.
- 15 mm stroke.



**Note: A 3.5 mm gap between the door and frame is required to activate the latch.**

| PART NUMBER | COLOR |
|---|---|
| ML-80-WHT | WHITE |
| ML-80-BRN | BROWN |
| ML-80-BLK | BLACK |



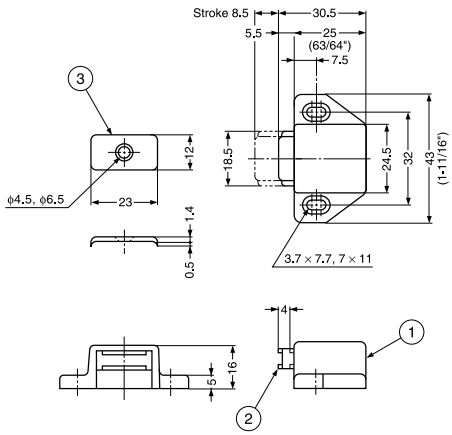

## MINIMAL PROTRUSION

- 2 colors.
- 2.6 lbs. holding force.
- 8.5 mm stroke.



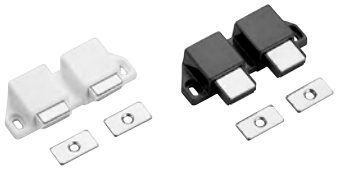
| PART NUMBER | COLOR |
|---|---|
| ML-30S-WHT | WHITE |
| ML-30S-BRN | BROWN |

**Note: A 4.0 mm gap between the door and frame is required to activate the latch.**



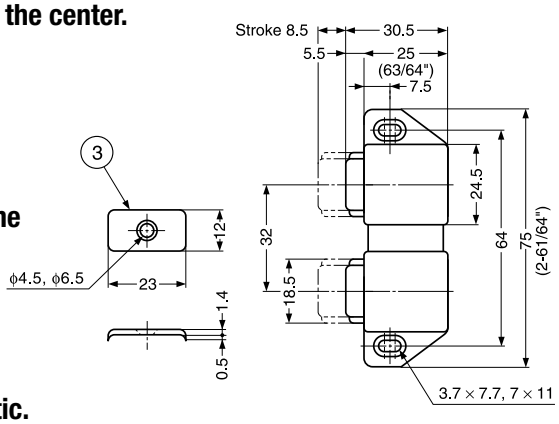

## DOUBLE CATCH

- Used for dual doors meeting in the center.
- Each half operates separately.
- 2.6 lbs. holding force (each).
- 8.5 mm stroke.



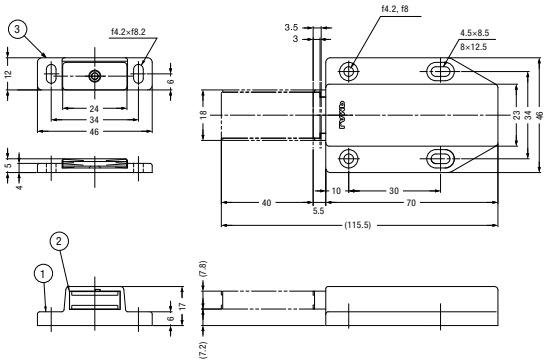
| PART NUMBER | COLOR |
|---|---|
| ML-30W-WHT | WHITE |
| ML-30W-BRN | BROWN |

**Note: A 4.0 mm gap between the door and frame is required to activate the latch.**




**Material: (All models)** Body - ABS plastic. Magnet-steel. Strike - steel.

## MAGNETIC TOUCH LATCHES



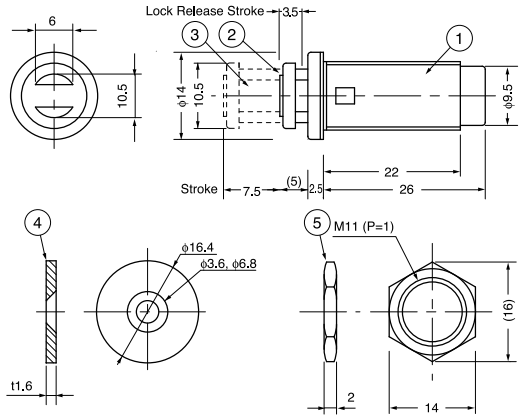

- 2 colors.
- 5.2 lbs. holding force.
- 40 mm stroke.

## LONG STROKE



**NOTE:** A 3.5 mm gap between the door and the frame is required to activate the latch.

| PART NUMBER | COLOR |
|---|---|
| ML-120-WHT | WHITE |
| ML-120-BRN | BROWN |




- Increased design flexibility.
- 2.9 lbs holding force.
- 7.5 mm stroke.

## ROUND HOLE DESIGN



**NOTE:**
- A 3.5 mm gap between the door and the frame is required to activate the latch.
- Screw for mounting the strike is not included.

| PART NUMBER |
|---|
| PM-4N-HB |

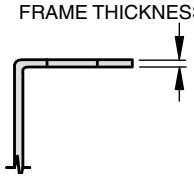
## SAMPLES – DRAWINGS – ASSISTANCE

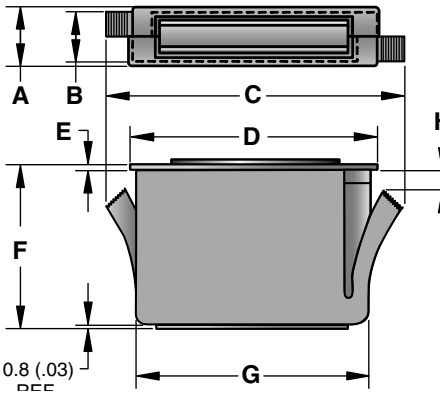
**Please call to request anything you need that helps to put one of our quality components on to your quality piece of equipment. We are here to help.**

## MAGNETIC CATCH, "SNAP-IN" STYLE

- **Pull to open.**
- **Optional mounting bracket available.**





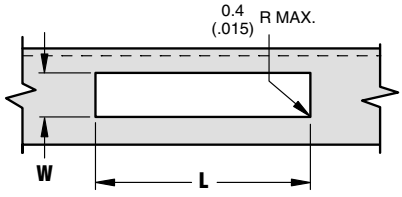

| SIZE | DIMENSIONS | | | | | | | FRAME THICKNESS | | H | PART NUMBERS | | Break-away Force |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | MIN. | MAX. | | Black | White | |
| **Small** (300 Series) | 7.7 (.30) | 6.1 (.24) | 27.9 (1.10) | 23.6 (.93) | 0.8 (.031) | 13.3 (.52) | 22 (.87) | 0.5 (.020) | 2 (.080) | 0.9 (.035) | 02-10-301-10 | 02-10-301-20 | 1.8 LBS. |
| | | | 26.7 (1.05) | | | | | 2 (.080) | 3.5 (.140) | 2.4 (.095) | 02-10-302-10 | 02-10-302-20 | |
| **Medium** (100 Series) | 9.2 (.36) | 7.7 (.30) | 47 (1.85) | 39.7 (1.56) | 0.8 (.031) | 25.4 (1.00) | 37.8 (1.49) | 0.5 (.020) | 2 (.080) | 1 (.040) | 02-10-101-10 | 02-10-101-20 | 10 LBS. |
| | | | 46.2 (1.82) | | | | | 2 (.080) | 3.5 (.140) | 2.5 (.100) | 02-10-102-10 | 02-10-102-20 | |
| | | | 45.5 (1.79) | | | | | 3.5 (.140) | 5 (.200) | 4 (.160) | 02-10-103-10 | 02-10-103-20 | |
| **Large** (200 Series) | 11 (.43) | 9.4 (.37) | 65.3 (2.57) | 58.5 (2.30) | 1.2 (.05) | 20.6 (.81) | 57 (2.24) | 0.5 (.020) | 2 (.080) | 0.3 (.010) | 02-10-201-10 | 02-10-201-20 | 14 LBS. |
| | | | 64.5 (2.54) | | | | | 2 (.080) | 3.5 (.140) | 1.8 (.070) | 02-10-202-10 | 02-10-202-20 | |
| | | | 63.3 (2.49) | | | | | 3.5 (.140) | 5 (.200) | 3.3 (.130) | 02-10-203-10 | 02-10-203-20 | |

*** High strength, large size, double magnet is available. Please call.**

**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

### PANEL PREPARATION

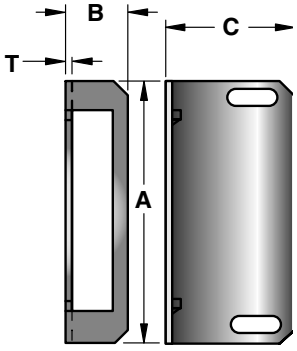


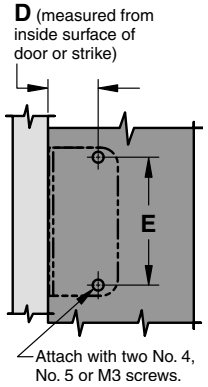

| SIZE | L± 0.1 (.005) | W± 0.1 (.005) |
|---|---|---|
| **Small** (300 Series) | 22.2 (.875) | 6.4 (.250) |
| **Medium** (100 Series) | 38.1 (1.500) | 8.1 (.320) |
| **Large** (200 Series) | 57.1 (2.250) | 9.6 (.380) |

### MOUNTING BRACKET

**Order Separately.**

**For applications where frame is not suitable for punching.**

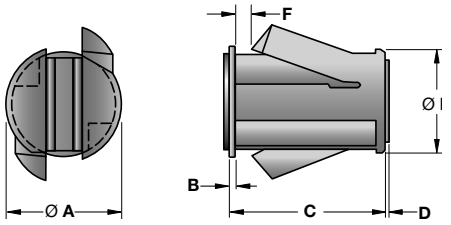


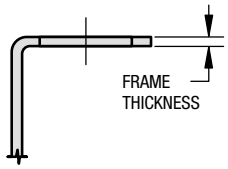




| SIZE | For use with these catches ONLY: | DIMENSIONS | | | | | | BRACKET PART NUMBER |
|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E ±0.1 (±.005) | T | |
| **Small** (300 series) | 02-10-301-10 02-10-301-20 | 41.3 (1.63) | 11.1 (.44) | 13.5 (.53) | 7.9 ±2.4 (.31 ±.09) | 35 (1.38) | 1 (.042) | 02-16-301-11 |
| **Medium** (100 series) | 02-10-101-10 02-10-101-20 | 51 (2.00) | 12.7 (.50) | 24.6 (.97) | 17.5 ±3.2 (.69 ±.13) | 44.5 (1.75) | | 02-16-101-11 |
| **Large** (200 series) | 02-10-201-10 02-10-201-20 | 76 (3.00) | 14.3 (.56) | 18.7 (.73) | 12.7 ±3.2 (.50 ±.13) | 70 (2.75) | | 02-16-201-11 |

- **Pull to open.**
- **Two sizes.**

## ROUND MAGNETIC CATCH, "SNAP-IN" STYLE

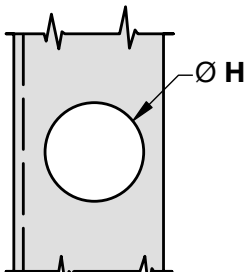




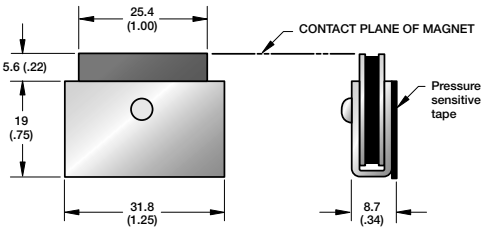

| SIZE | DIMENSIONS | | | | | | FRAME THICKNESS | | PART NUMBER | RATED LOAD |
|---|---|---|---|---|---|---|---|---|---|---|
| | Ø A | B | C | D | Ø E | F | MIN. | MAX. | | |
| Small (400 series) | .16 (.63) | 0.8 (.031) | 21.4 (.84) | 0.8 (0.3) | 14.2 (.558) | 0.8 (.030) | 0.5 (.020) | 2 (.080) | 02-20-411-10 | 24 N (5.5 lbs.) |
| | | | | | | 2.3 (.090) | 2 (.080) | 3.5 .140) | 02-20-412-10 | |
| | | | | | | 3.8 (.150) | 3.5 .140) | 5 (.200) | 02-20-413-10 | |
| Large (600 series) | 24.5 (.97) | 1.2 (.048) | 33.5 (1.32) | 0.8 (0.3) | 22.1 (.870) | 0.5 (.020) | 0.5 (.020) | 2 (.080) | 02-20-611-10 | 58 N (13 lbs.) |
| | | | | | | 2 (.080) | 2 (.080) | 3.5 .140) | 02-20-612-10 | |
| | | | | | | 3.5 .140) | 3.5 .140) | 5 (.200) | 02-20-613-10 | |

### PANEL PREPARATION




| SIZE | Ø H |
|---|---|
| **Small** (400 Series) | $14.3\ ^{+0.1}_{-0.0}$ ($.563\ ^{+.004}_{-.000}$) |
| **Large** (600 Series) | $22.3\ ^{+0.1}_{-0.0}$ ($.875\ ^{+.005}_{-.000}$) |

### SERIES 100

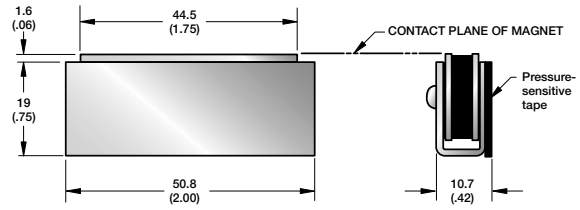



## MAGNETIC CATCH, ADHESIVE-MOUNT STYLE

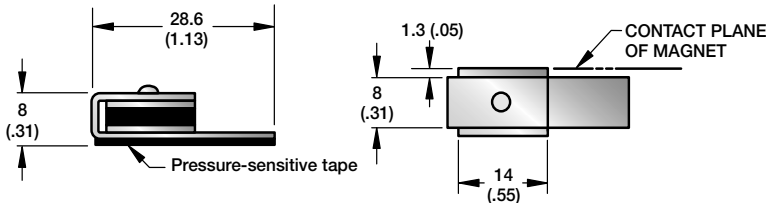
| SERIES | PART NUMBER | RATED LOAD |
|---|---|---|
| 100 | 02-30-121-10 | 40 N (8.7 lbs.) |
| 200 | 02-30-221-10 | 52 N (11.8 lbs.) |
| 300 | 02-30-321-10 | 18 N (4 lbs.) |



### SERIES 200

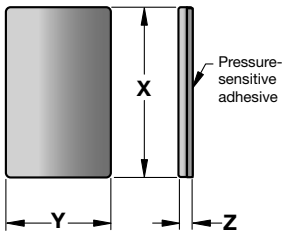



### SERIES 300



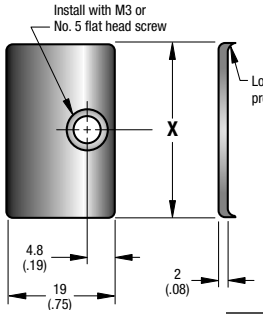

## ACCESSORIES – Steel strikes

### SELF-ADHESIVE




| For use with: | PART NUMBER | X | Y | Z |
|---|---|---|---|---|
| 300 Series Catch | 02-14-301-14 | 24 (.94) | 8 (.31) | 2.4 (.10) |
| 400 Series Catch | | | | |
| 100 Series Catch | 02-14-101-14 | 32 (1.25) | 19 (.75) | 2.8 (.11) |
| 600 Series Catch | | | | |
| 200 Series Catch | 02-14-201-14 | 51 (2.00) | 19 (.75) | 2.8 (.11) |
| 800 Series Catch | | | | |

### SCREW-MOUNTED




| For use with: | PART NUMBER | X |
|---|---|---|
| 100 Series Catch | 02-14-102-11 | 32 (1.25) |
| 600 Series Catch | | |
| 200 Series Catch | 02-14-202-11 | 51 (2.00) |
| 800 Series Catch | | |

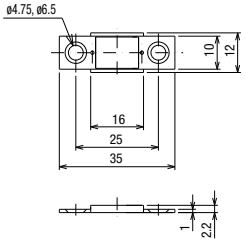
EXPANDED RANGE

CAD POWERED

## ULTRA-THIN MAGNETIC, STANDARD

- 2.2 mm (3/64") total thickness.
- Strong magnetic force (5.9 lbs).






**Notes:**
1) Counterplate should avoid direct contact with magnetic surface.
2) Screw heads cannot protrude above base plate.
3) Suitable for temperatures below 100°C (212°F).

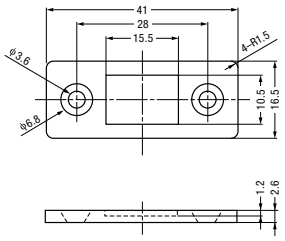
**Material**: magnet-neodymiom, base-steel, nickel finish

| PART NUMBER |
|---|
| YN-001 |

## ULTRA-THIN MAGNETIC, HIGH STRENGTH

- 2.6 mm (.102") total thickness.
- Very strong magnetic force (8.0 lbs).
- Clean design.






**Notes:**
1) Counterplate should avoid direct contact with magnetic surface.
2) Screw heads cannot protrude above base plate.
3) Suitable for temperatures below 100°C (212°F).

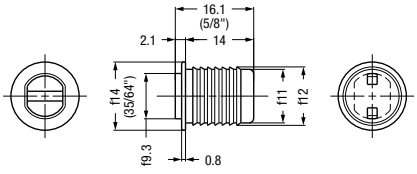
**Material**: magnet-neodymiom, base-steel, nickel finish

| PART NUMBER |
|---|
| MC-159 |

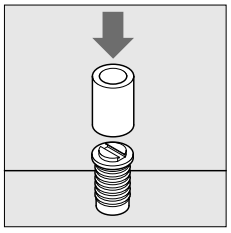
## MINIATURE ROUND

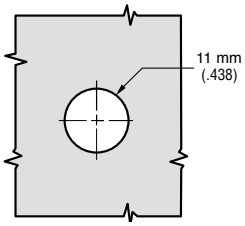
- "Push" into wood or metal panels.
- 5.5 lbs holding force.






**PANEL PREPARATION**



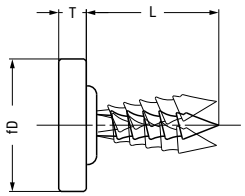



| PART NUMBER | COLOR |
|---|---|
| IS-4/WHT | WHITE |
| IS-4/BLK | BLACK |

## STRIKES

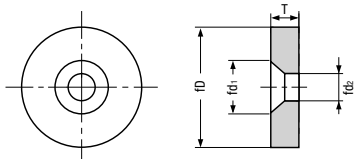
- Steel material for use with any magnet.
- Easy to install.






| PART NUMBER |
|---|
| Z4 |



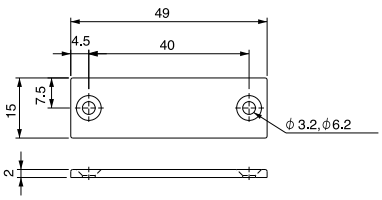



| PART NUMBER | T | D | $d_1$ | $d_2$ |
|---|---|---|---|---|
| W4 | 2.5 | 12 | 6 | 3 |
| W12 | 3 | 15 | 8 | 4 |

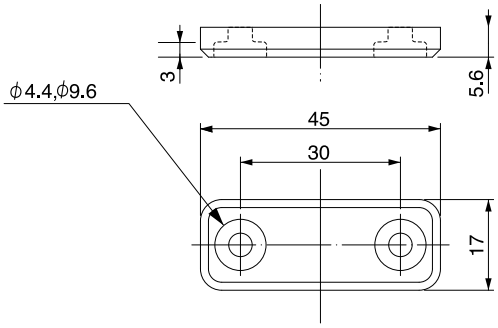
## SEALED MAGNETIC LATCH, THIN

- Strong neodymiun magnet molded in clean poly acetal body.
- Hermetically sealed.
- 9.9 lbs holding force.
- Stainless steel striker.
- Thin design.

**Striker**




| STRIKER PART NUMBER |
|---|
| JM-49 |



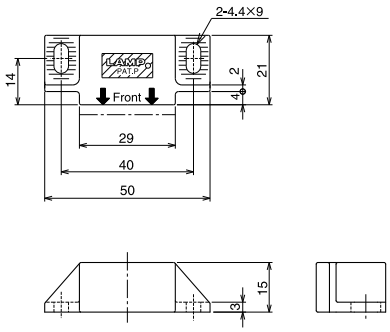



| PART NUMBER |
|---|
| JM-45 |

**Note:** Use M4 mounting screws (not supplied)

## SEALED MAGNETIC LATCH, STANDARD

- Strong neodymiun magnet wrapped in clean poly acetal body is hermetically sealed.
- 6.6 lbs holding force.
- Stainless steel striker. (see above)



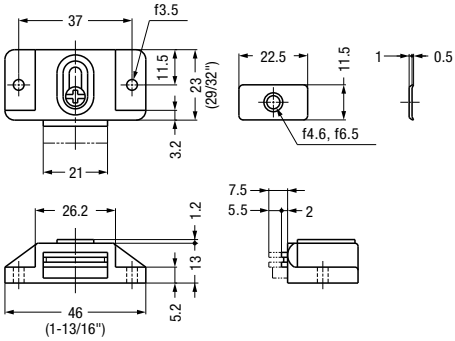



**Note:** Use M4 mounting screws (not supplied)
- Stainless striker featured above.

| PART NUMBER | COLOR |
|---|---|
| JM-50-WHT | WHITE |
| JM-50-BLK | BLACK |

## ADJUSTABLE MAGNETIC CATCH

- Magnet adjusts 5.5 mm to help with door alignment.
- 2 colors.
- 6.6 lbs holding force.



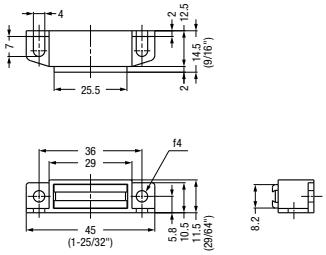


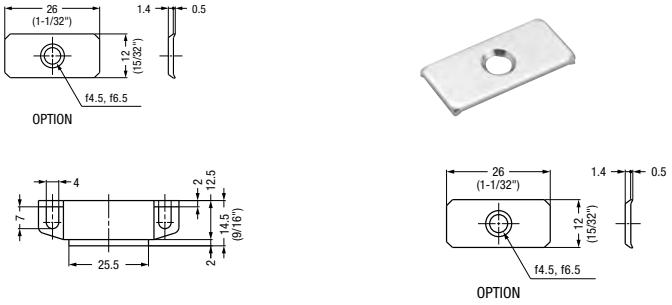

| PART NUMBER | COLOR |
|---|---|
| MC-84-WHT | WHITE |
| MC-84-BLK | BLACK |

## SCREW MOUNT MAGNETIC CATCHES

- **Ability to screw mount in 2 planes gives tremendous design flexibility.**
- **3 holding forces.**
- **Color options allow easy force identification.**





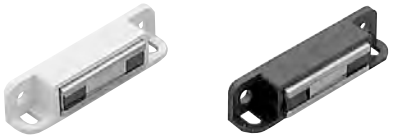

| PART NUMBERS | | | HOLDING FORCE |
|---|---|---|---|
| BLACK | WHITE | GREY | |
| MC0099BLK | MC0099WHT | — | 2.4 lbs. |
| MC0099SBLK | MC0099SWHT | — | 8.3 lbs. |
| — | — | MC0099GR | 11.4 lbs. |

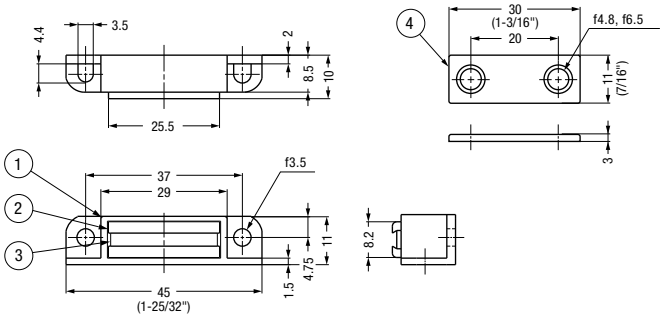
**Striker (order separately)**

| STRIKER PART NUMBER |
|---|
| SP0207 |

## SCREW MOUNT MAGNETIC LATCHES HIGH FORCE

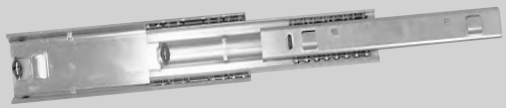
- **Minimum protrusion design with screw mounting in 2 planes.**
- **17.6 lbs. holding force – highest force composite body magnet offered by Clancey.**
- **2 colors.**
- **Striker included.**






| PART NUMBER | COLOR |
|---|---|
| MC-110NF-WHT | WHITE |
| MC-110NF-GR | GREY |

## DRAWER SLIDES

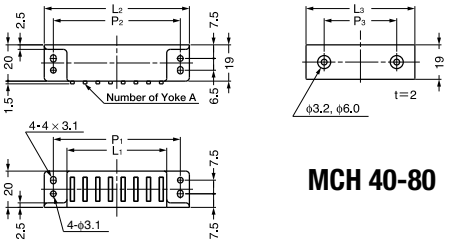


**Clancey features a full line of standard and specialty drawer slides which can meet many application requirements. We specialize in stainless steel and extremely high capacity slides. Please give us a call for design assistance or samples.**

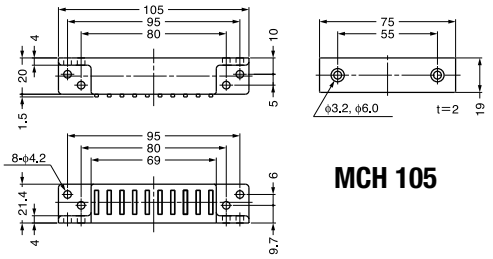

**Review our offerings on pages 252-263**

- **Robust zinc alloy housing construction.**
- **Large range of holding forces (6.6 - 33 lbs.).**
- **Striker is included.**

## HEAVY DUTY MAGNETIC CATCH




**MCH 40-80**




**MCH 105**

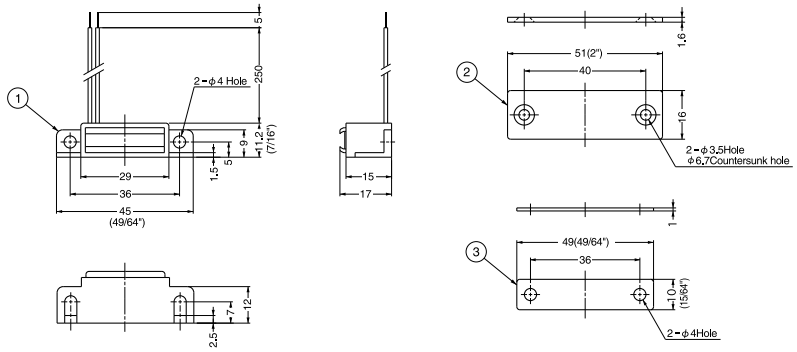
MCH-105 MCH-61 MCH-40



| PART NUMBERS | L1 | L2 | L3 | P1 | P2 | P2 | A | HOLDING FORCE |
|---|---|---|---|---|---|---|---|---|
| MCH-40 | 20 | 40 | 22 | 30 | 30 | 12 | 3 | 6.6 lbs. |
| MCH-50 | 27 | 50 | 29 | 40 | 40 | 18 | 4 | 15.4 lbs. |
| MCH-61 | 41 | 61 | 43 | 50 | 50 | 27 | 6 | 24.2 lbs. |
| MCH-80 | 55 | 80 | 60 | 70 | 70 | 40 | 8 | 30.8 lbs. |
| MCH-105 | — | — | — | — | — | — | — | 33.0 lbs. |

- **2 holding forces.**
- **Door open "ON" or door open "OFF" options.**

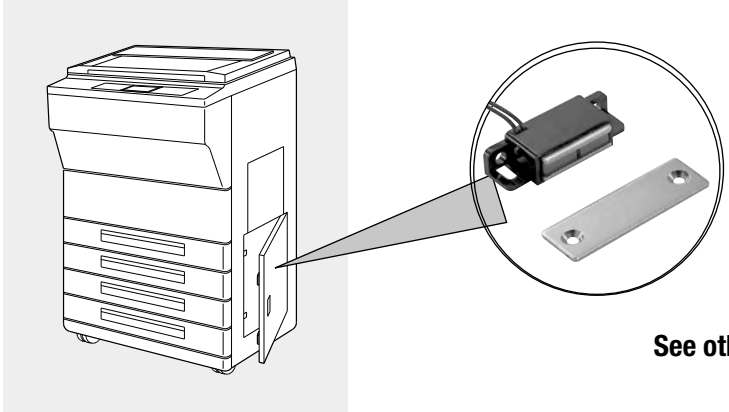
## ELECTRONIC MAGNETIC CATCH






| PART NUMBER | SWITCH ACTION | HOLDING FORCE |
|---|---|---|
| SMC-101B | OPEN – OFF | 2.2 lbs. |
| SMC-103A | OPEN – ON | 6.6 lbs. |
| SMC-103B | OPEN – OFF | 6.6 lbs. |

**Materials:** **(1) Housing - Polycarbonate, black.**
**(2) Magnet - steel, nickel finish.**
**(3) Striker plate - Steel, nickel finish.**



**PERFORMANCE SPECIFICATIONS**

| | |
|---|---|
| **Wattage** | 10 W |
| **Voltage** | 100 VDC |
| **Current** | 0.5 A DC |
| **Maximum Contact Resistance** | 0.15 Ω ** |
| **Operating Temperature** | 0 ~ 60° C |
| **Cable** | UL1007 AWG#26 BLACK |
| **Cable Strength** | Maximum 1 kg |

** Excluding cable conductor resistance.

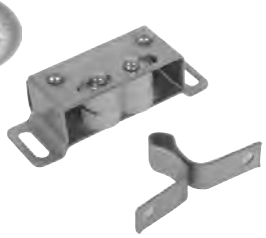
**See other electronic latching solutions on page 128 & 132.**

# LATCHES
## PUSH TO CLOSE

CAD POWERED

## STAINLESS ROLLER CATCH

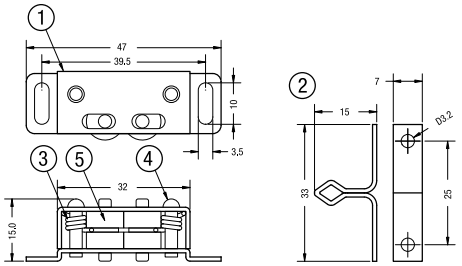
STAINLESS



| PART NUMBER | HOLDING FORCE |
|---|---|
| 55-106 | 6.0 lbs. |

"Great Part – Call for samples"

- Non-corrosive materials
- 6.0 lb. holding force
- High cycle life

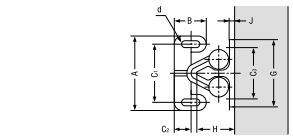


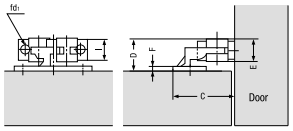

## COMPOSITE ROLLER CATCH

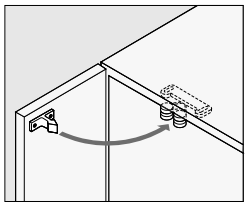
NON-CORROSIVE

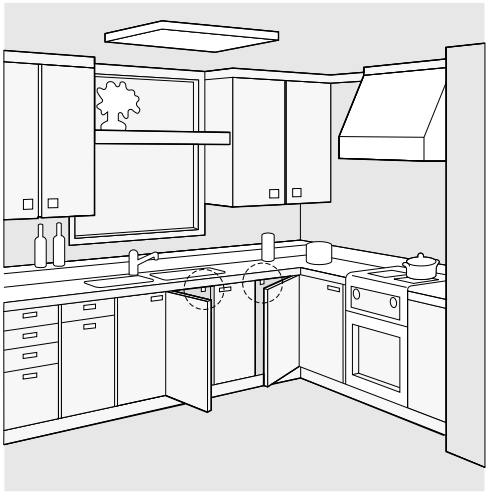


- Non-corrosive materials
- Affordable
- Exceeds 300,000 cycles
- 2 sizes/forces







| PART NUMBER | COLOR | HOLDING FORCE |
|---|---|---|
| 6900 | White | 3.5 lbs. |
| 6901-W | White | 7.0 lbs. |
| 6901-B | Brown | |

### Composite Roller Catch – Dimensions

| SERIES | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6900 | 29 (1.14") | 12 (.472") | 21.2 (.835") | 11.3 (.445") | 8 (.315") | 2 (.079") | 29 (1.02") | 13.5 (.531") | 7.5 (.295") | 1.7 (.067") | 21.5 (.849") | 6 (.236") | 20 (.787") | 3.1 x 7 (.122 x .275") | 3 (.118") |
| 6901 | 31.3 (1.23") | 14 (.551") | 27.2 (1.07") | 12.6 (.496") | 9 (.354") | 2.3 (.091") | 32 (1.26") | 16.5 (.650") | 9 (.354") | 2 (.079") | 24.4 (.961") | 7.5 (.295") | 23.6 (.929") | 3.1 x 7 (.122 x .275") | 3.1 (.122") |

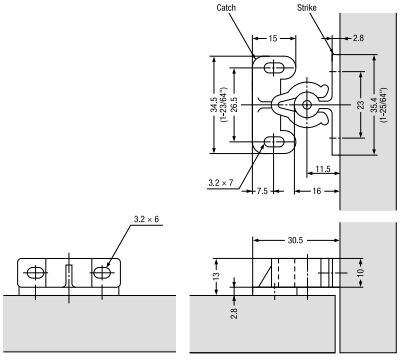
## KNUCKLE CATCH

NON-CORROSIVE



| PART NUMBER | HOLDING FORCE |
|---|---|
| K-115 | 15.4 lbs. |

- Non-corrosive materials
- Aggressive holding force
- Affordable




LATCHES, PUSH TO CLOSE



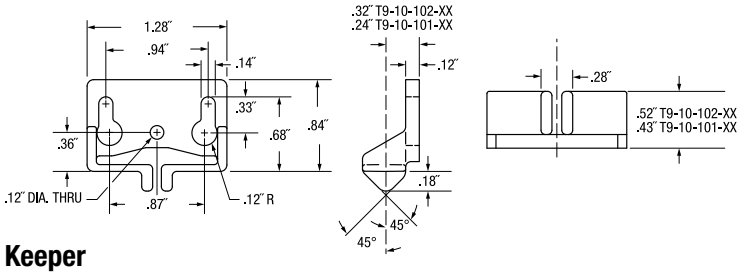
clancey DESIGN DISTRIBUTOR

## DETENT CATCH

- Non-corrosive materials.
- Exceeds 50,000 cycles.
- Adjustable closing pressure.
- Easy keyhole mounting/installation.
- 2 colors.

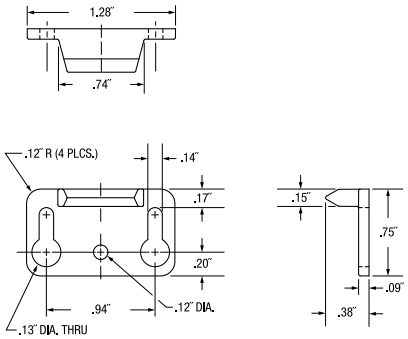
NON-CORROSIVE

T9-10-102-XX

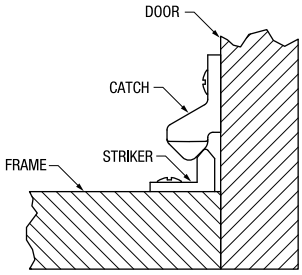





### Keeper




### Installation



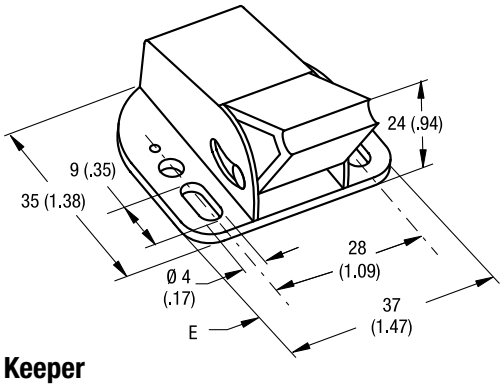

| PART NUMBER | COLOR |
|---|---|
| T9-10-102-70 | White |
| T9-10-102-50 | Black |

## SNAPPY CATCH

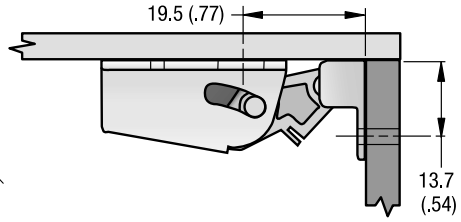
- Over center latching for vibration resistance.
- Cam self-adjusts for misalignment.

NON-CORROSIVE

### Catch

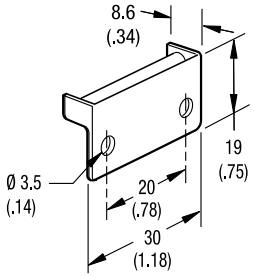



### Installation






### Keeper




| PART NUMBER | COLOR |
|---|---|
| MT-01-10-7 | White |
| MT-01-10-3 | Brown |

**For detailed material specifications plus product installation instructions.**

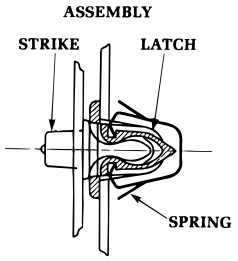
**www.clancey.com**

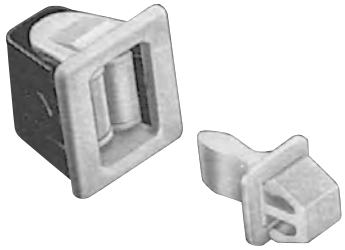
# LATCHES
## PUSH TO CLOSE

CAD POWERED

## STRIKE AND LATCH

- Easy, "snap-in" installation.
- Rugged design for high number of open/close cycles.



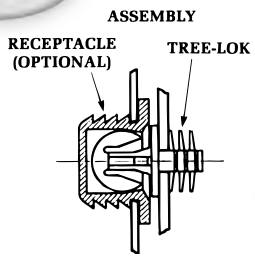
| LATCH PART NUMBER | MOUNTING | |
|---|---|---|
| | HOLE SIZE | PANEL THICKNESS |
| 7800-01 | .515" X .656" RECTANGLE | .035" - .060" |

| STRIKE PART NUMBER | MOUNTING | |
|---|---|---|
| | HOLE SIZE | PANEL THICKNESS |
| 263-000006-00 | .286" X .291" SQUARE HOLE | .032" - .052" |

## TREE-LOK FASTENER

- Non-corrosive, non-conductive.
- Easy and intuitive push-to-close action.
- Can be used without receptacle into a blind hole.

NON-CORROSIVE






| BALL SLIDE PART NUMBER | DIMENSIONS | | BALL SIDE MOUNTING | | RECEPTACLE REFERENCE NUMBER (OPTIONAL) |
|---|---|---|---|---|---|
| | PRONG LENGTH | BALL HEIGHT | PANEL THICKNESS | HOLE SIZE | |
| MINITURE BALL | | | | | |
| 320-3222880-03 | .225" | .365" | .040" - .180" | .437" | 1 |
| STANDARD BALL | | | | | |
| 320-322880-06 | .436" | .472" | .040" - .375" | .250" | 2 |
| 320-322880-00 | .436" | .472" | .040" - .375" | .437" | 2 |
| STANDARD BALL WITH 1/4" STAND-OFF | | | | | |
| 320-322880-01 | .436" | .722" | .040" - .375" | .437" | 2 |

| RECEPTACLE PART NUMBER | DIMENSIONS | RECEPTACLE MOUNTING | | RECEPTACLE REFERENCE NUMBER (OPTIONAL) |
|---|---|---|---|---|
| | CUP DEPTH | PANEL THICKNESS | HOLE SIZE | |
| MINIATURE BALL | | | | |
| 320-221401-01 | .375" | .040" - .250" | .406" | 1 |
| STANDARD BALL | | | | |
| 320-221401-01 | .450" | .040" - .250" | .562" | 2 |

**How to order:**

**Determine if you will use a receptacle.**

**A) If yes, match receptacle reference number to the ball you selected. (order both part numbers)**

**B) If no, proceed to blind hole mounting instructions and follow reference number. (order ball part number only)**

**Blind hole mounting instructions:**

**Reference #1 .312" hole at least .400" deep.**
**Reference #2 .437" hole at least .500" deep.**

**Material: Nylon**
**Color: Black**

**Notes: Listed dimensions are nominal.**
**Please call for drawings and samples.**

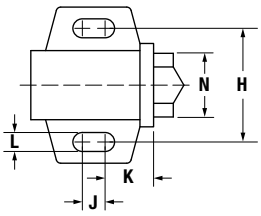
## SAMPLES

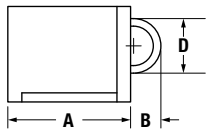
**We are always happy to provide samples for you to test in your prototype and concept builds. Call us for your samples today.**

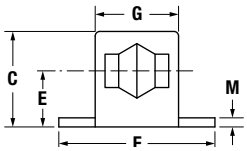
- **Smooth action for panel doors.**
- **Non-corrosive, non-conductive.**
- **3 sizes.**

## ROLLER CATCHES

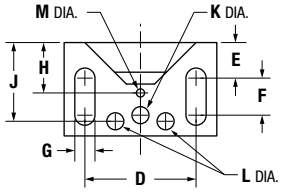
### Catch Design

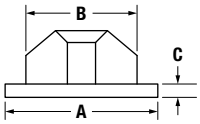


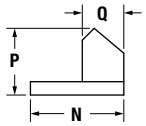




### Keeper Design




- **Sanitary white color.**
- **Latch & keeper available separately.**

## MEDIUM & SMALL SIZES




| SMALL SIZE PART NUMBERS | |
|---|---|
| Catch and Keeper | T9-20-501-20 |
| Catch Only | T9-21-501-20 |
| Keeper Only | T9-27-501-20 |

| MEDIUM SIZE PART NUMBERS | |
|---|---|
| Catch and Keeper | T9-20-801-20 |
| Catch Only | T9-21-801-20 |
| Keeper Only | T9-27-801-20 |

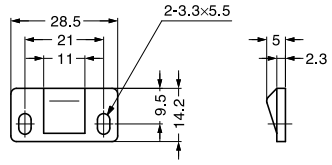
### Catch Dimensions

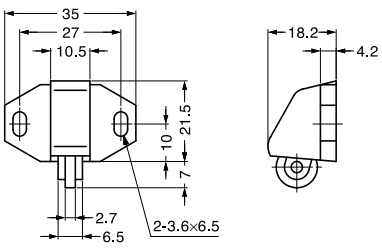
| SIZE | A | B | C | D | E | F | G | H | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SMALL | .81" | .2" | .63" | .36" | .37" | 1.03" | .55" | .75" | .15" | .32" | .13" | .06" | .42" |
| MEDIUM | 1.19" | .3" | .87" | .53" | .53" | 1.38" | .72" | 1.00" | .22" | .48" | .15" | .10" | .60" |

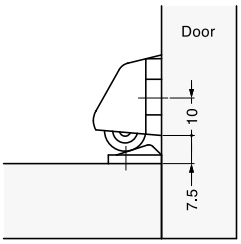
For detailed material specifications plus product installation instructions.
**www.clancey.com**

### Keeper Dimensions

| SIZE | A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SMALL | 1.03" | .75" | .09" | .75" | .24" | .25" | .136" | .34" | — | .115" | — | .055" | .63" | .45" | .28" |
| MEDIUM | 1.38" | 1.0" | .10" | 1.0" | .36" | .19" | .156" | — | .59" | — | .11" | — | .81" | .55" | .34" |




- **2 color options.**
- **Gradual ramp angle yields smoothest action.**

## LARGE SIZE

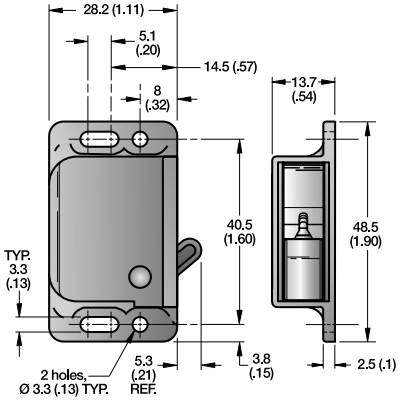
| PART NUMBER | COLOR |
|---|---|
| C882W | White |
| C882BR | Brown |

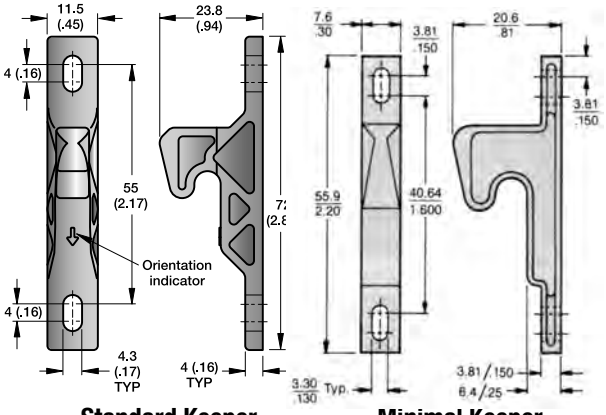


## GRABBER™ CATCH, SIDE MOUNT STYLE

- **Hidden, positive latching.**
- **Choice of four pull-up forces.**
- **Two keeper options.**





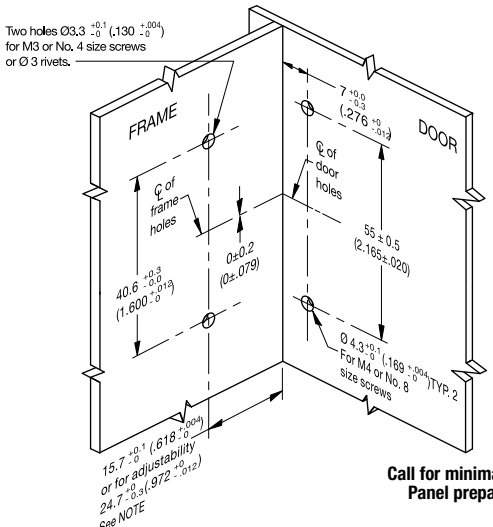

**Standard Keeper** **Minimal Keeper**

| Approximate Pull-up force | PART NUMBERS | |
|---|---|---|
| | STD. KEEPER | MINIMAL KEEPER |
| 13 N (3.0 lbs.) | **C3-803** | **C3-203** |
| 22 N (5.0 lbs.) | **C3-805** | **C3-205** |
| 44 N (10.0 lbs.) | **C3-810** | **C3-210** |
| 66 N (15.0 lbs.) | **C3-99-152** | — |

**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

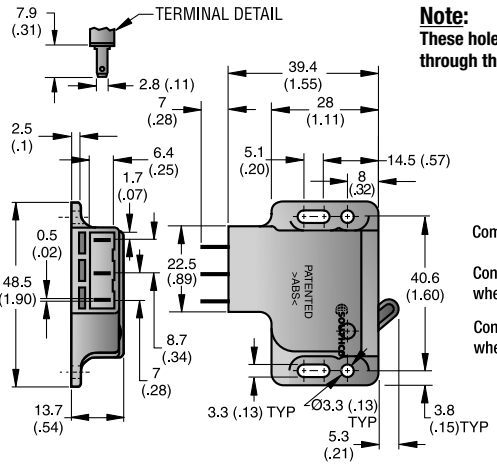
### PANEL PREPARATION - Standard Keeper



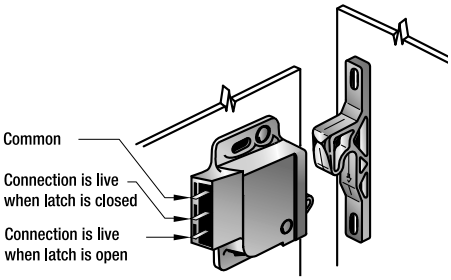

**Call for minimal keeper Panel preparation**

## GRABBER™ CATCH WITH INTEGRAL MICROSWITCH






**Note:**
**These holes and dimensions are used only if adjustability through the use of slotted holes in catch is desired.**



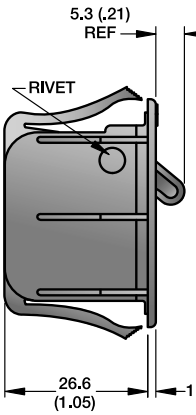

| Approximate Pull-up force | PART NUMBERS |
|---|---|
| 13 N (3 lbs.) | **C3-1803** |
| 22 N (5 lbs.) | **C3-1805** |
| 44 N (10 Lbs.) | **C3-1810** |

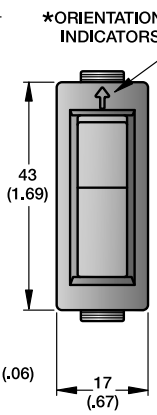
**NOTES:** **Uses standard keeper illustrated above.**
**Not to be used as a safety interlock device.**

- Catch snaps into frame.
- Fits into frames from 1.1 mm (.043") to 7 mm (.276") thick.
- Choice of three pull-up forces.

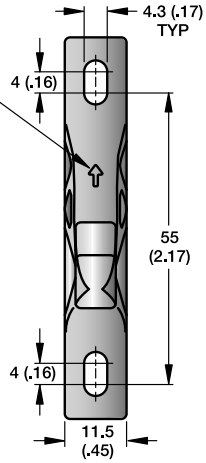
## GRABBER™ CATCH, SNAP-IN STYLE

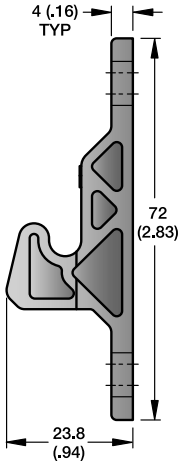
### CATCH

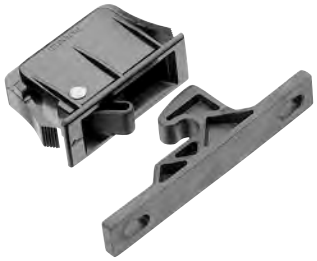



### KEEPER

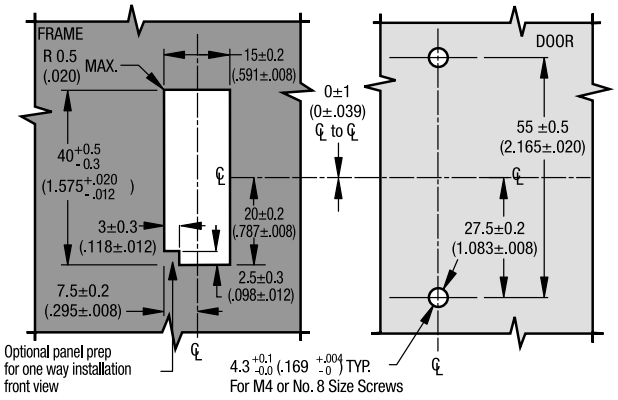


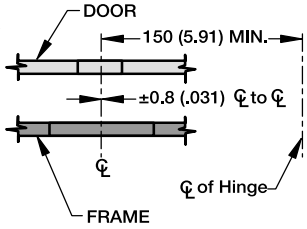



| Approx. Pull-up Force | PART NUMBERS | | |
|---|---|---|---|
| | Panel Thickness Range | | |
| | 1.1 (0.43) - 2.9 (.114) | 2.9 (.114) - 5.3 (.209) | 5.3 (.209) - 7 (.276) |
| 13 N (3.0 lbs.) | C3-303 | C3-503 | C3-703 |
| 22 N (5.0 lbs.) | C3-305 | C3-505 | C3-705 |
| 44 N (10.0 lbs.) | C3-310 | C3-510 | C3-710 |

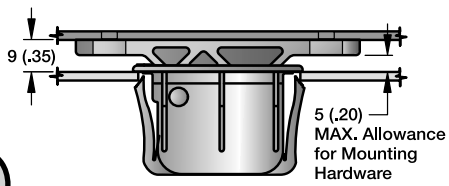
### PANEL PREPARATION




For detailed material specifications plus product installation instructions.
**www.clancey.com**

### LATCHED



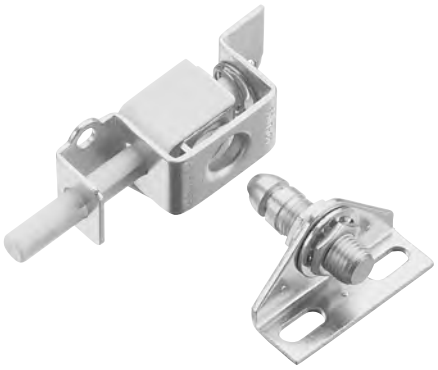

## MODIFICATIONS

**Most of the products in our catalog can be modified to meet the specific needs of your application. We can change materials, sizes, colors, and finishes to give your the part you need. Please call your Clancey Application Specialist to review your requirements.**

## HIDDEN PANEL LATCHING SYSTEM

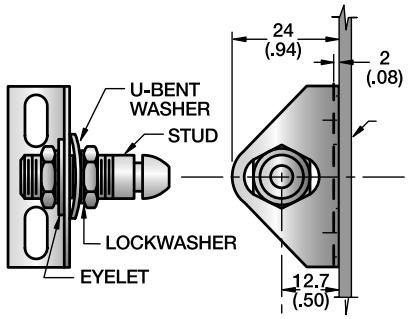
MULTI-POINT LATCHING

- **Push button to unlatch.**
- **Designed for near edge applications.**
- **Floating keeper assists alignment.**
- **Can be used in remote or multi-point latching applications.**

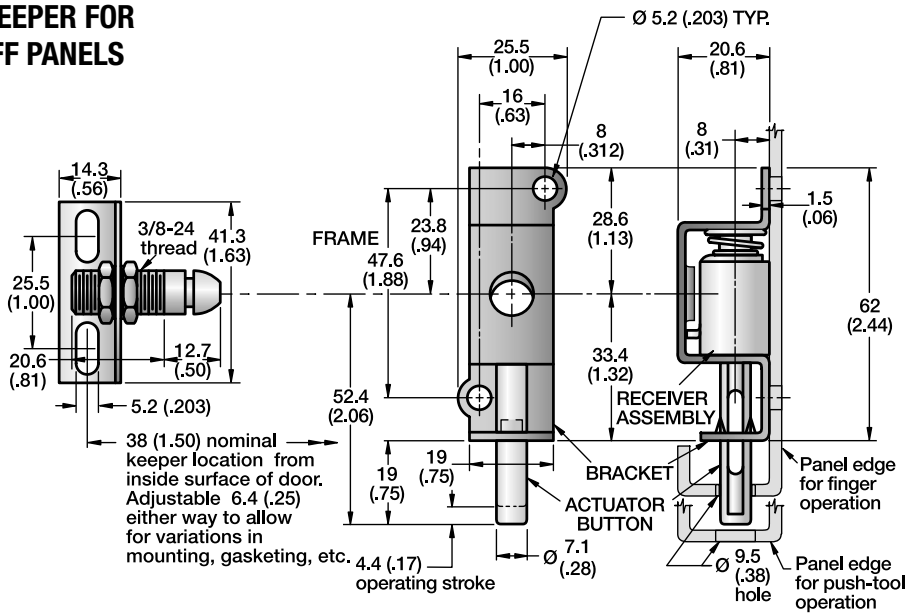


| KEEPER STYLE | ASSEMBLY PART NUMBERS |
|---|---|
| Fixed keeper | **E2-50-101-10** |
| Floating keeper | **E2-50-101-20** |

**FLOATING KEEPER FOR HINGED PANELS**




**FIXED KEEPER FOR LIFT-OFF PANELS**




**NOTE:** **Call for multi-point application assistance.**

**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

MULTI-POINT LATCHING CALL FOR ASSISTANCE

- **Allows for remote latch actuation from an in-line location.**

**REMOTE LATCHING OPTION**

**HOW TO ORDER — 4 part numbers for a system.**

**1) Select fixed or floating keeper.**

| 1 | KEEPER PART NUMBERS | |
|---|---|---|
| | Fixed Keeper | E2-55-101-10 |
| | Floating Keeper | E2-55-102-10 |

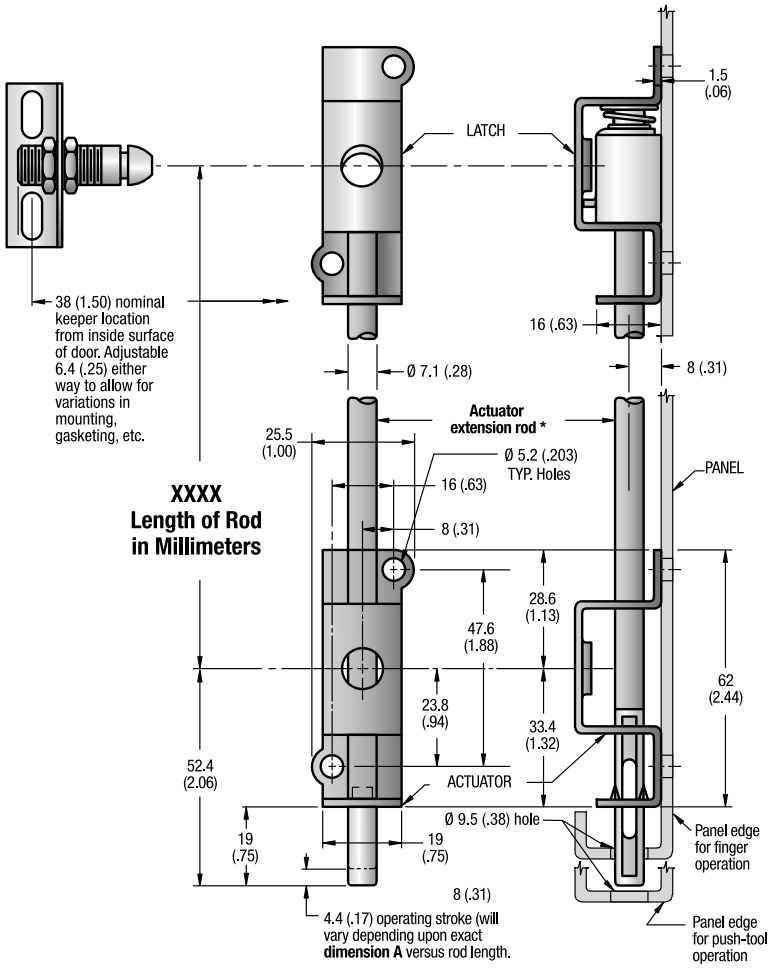
**2) Determine rod length required (see diagram).**

| 2 | STANDARD LEGNTH ROD P/ N'S | |
|---|---|---|
| | 500 mm | E2-46-0500-16 |
| | 1250 mm | E2-46-1250-16 |

**NOTE: For less than 50 pieces order standard and cut to length. Greater than 50 call and we will make to specification.**

**3) Order actuator and latch – 2 parts.**

| 3 | ACTUATOR P/ N | AND | LATCH P/N |
|---|---|---|---|
| | E2-91-101 | | E2-46-0500-16 |




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**Excellent 2D resources for sourcing prints and documentation, plus the latest in 3D solid models are just a few clicks away.**

CAD POWERED

## DOUBLE BALL CATCH

- Durable zinc alloy or non-corrosive 316 stainless steel.
- Tension can be adjusted easy to suit application requirements.

STAINLESS STEEL AVAILABLE

70 SERIES

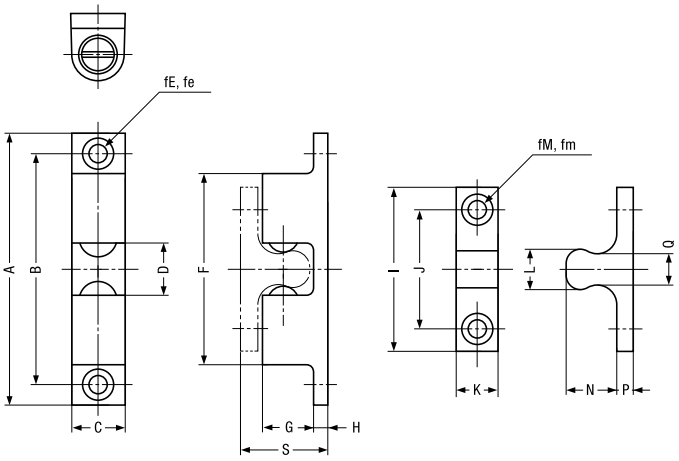


50 SERIES



40 SERIES






**NOTE:** Dimensions differ slightly between materials.

## ZINC ALLOY WITH CHROME FINISH

- Durable.
- Economical.

| ZINC ALLOY PART NUMBERS | PUSH-IN FORCE | PULL-OUT FORCE |
|---|---|---|
| BCT-40 | 7.9 lbs. | 6.6 lbs. |
| BCT-50 | 5.9 lbs. | 3.5 lbs. |
| BCT-70 | 10.1 lbs. | 8.1 lbs. |

**Zinc Alloy Dimensions**

| Part Number | A | B | C | D | E | F | G | H | I | J | K | L | M | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BCT-40 | 42.5 (1.67") | 35 (1.38") | 8 (.315") | 26.9 (1.06") | 7.5 (.295") | 2.5 (.098") | 25 (.984") | 16 (.630") | 7.5 (.295") | 8.5 (.335") | 2.5 (.098") | 13.8 (.543") | 3.2 (.126") | 6.2 (.244") |
| BCT-50 | 50 (1.97") | 40 (1.58") | 10 (.394") | 30 (1.18") | 9.5 (.374") | 3 (.118") | 30 (1.18") | 20 (.787") | 9 (.354") | 9.5 (.374") | 3 (.118") | 15.3 (.602") | 4.2 (.165") | 8.2 (.323") |
| BCT-70 | 70 (2.75") | 60 (2.36") | 13.5 (.531") | 48.5 (1.91") | 13 (.512") | 4 (.157") | 42 (1.65") | 30 (1.18") | 10.5 (.413") | 13 (.512") | 4 (.157") | 21.2 (.835") | 4.2 (.165") | 8.2 (.323") |

## 316 STAINLESS STEEL

- Non-corrosive.

| 316 STAINLESS PART NUMBERS | PUSH-IN FORCE | PULL-OUT FORCE |
|---|---|---|
| BCTS-40 | 4.4 lbs. | 2.9 lbs. |
| BCTS-50 | 5.0 lbs. | 3.9 lbs. |
| BCTS-70 | 12.5 lbs. | 8.5 lbs. |

STAINLESS

**316 Stainless Steel Dimensions**

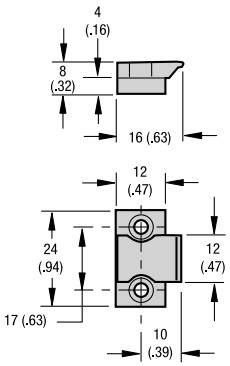
| Part Number | A | B | C | D | E | F | G | H | I | J | K | L | M | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BCTS-40 | 43 (1.69") | 35 (1.38") | 8 (.315") | 28.4 (1.12") | 10 (.394") | 2.5 (.098") | 25 (.984") | 16 (.630") | 7.5 (.295") | 8.5 (.335") | 2.5 (.098") | 13.5 (.531") | 3.2 (.126") | 6.2 (.244") |
| BCTS-50 | 50 (1.97") | 40 (1.58") | 10 (.394") | 31.5 (1.24") | 12.2 (.480") | 2.9 (.114") | 30 (1.18") | 20 (.787") | 9 (.354") | 10.3 (.405") | 2.9 (.114") | 15.9 (.626") | 4.2 (.165") | 8.2 (.323") |
| BCTS-70 | 70 (2.75") | 60 (2.36") | 13 (.512") | 51 (2.01") | 17 (.669") | 4 (.157") | 42 (1.65") | 30 (1.18") | 10.5 (.413") | 15 (.590") | 4 (.157") | 23 (.905") | 4.2 (.165") | 8.2 (.323") |

- Sleek, low-profile design.
- Tamper resistant construction.
- Three finishes with optional lock.
- 2 sizes.

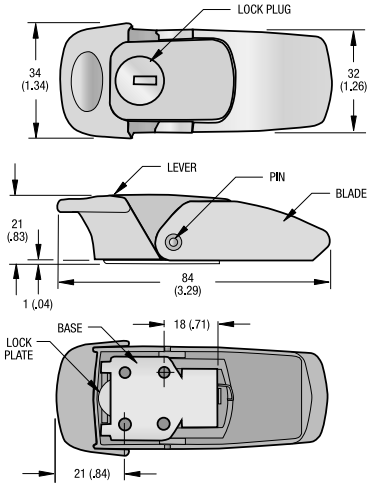
## DESIGNER SERIES OVER CENTER LATCH

### STANDARD SIZE

**KEEPER**




**LATCH**




Now available in stainless steel, please call.



Satin chrome, non-locking



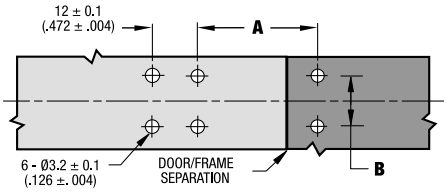
STAINLESS AVAILABLE

Black finish, locking

| STYLE | PART NUMBER | | |
|---|---|---|---|
| | Bright Chrome | Satin Chrome | Black Powder Coated |
| Non-Locking | V7-20-101-10 | V7-20-101-20 | V7-20-101-50 |
| Locking | V7-20-111-10 | V7-20-111-20 | V7-20-111-50 |

**NOTE:** Locking latches supplied with 2 keys.

**PANEL PREPARATION (both sizes)**

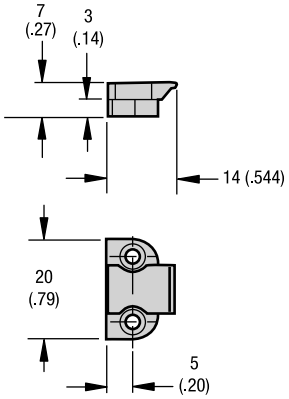



| Size | A | B |
|---|---|---|
| Standard | 35.5 ± 0.1 (1.398" ± .004") | 16 ± .01 (.630" ± .004") |
| Miniature | 30 ± 0.1 (1.181" ± .004") | 12 ± .01 (4.72" ± .004") |

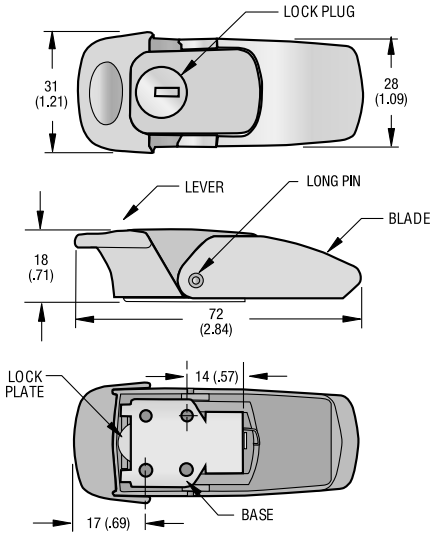
- Friction drag feature for one hand operation.

### MINATURE SIZE

**KEEPER**




**LATCH**






Bright chrome, locking

| STYLE | PART NUMBER | | |
|---|---|---|---|
| | Bright Chrome | Satin Chrome | Black Powder Coated |
| Non-Locking | V7-10-105-10 | V7-10-105-20 | V7-10-105-50 |
| Locking | V7-10-115-10 | V7-10-115-20 | V7-10-115-50 |

**NOTE:** Locking latches supplied with 2 keys.

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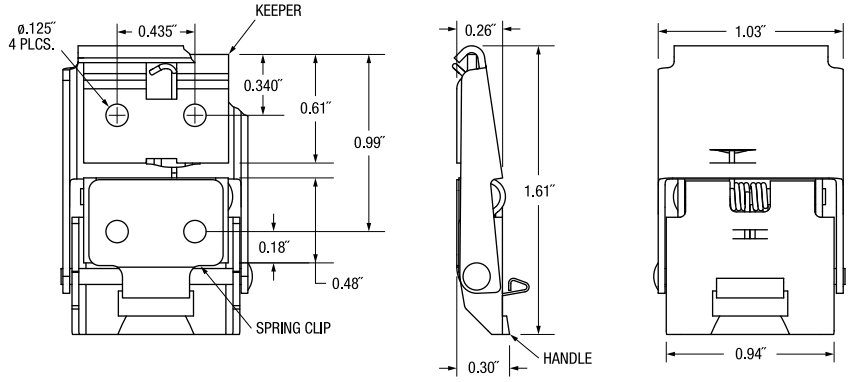
## ENCLOSED OVER-CENTER LATCH, COMPACT

- Secondary catch prevents inadvertent release.
- Compact size, clean design – no exposed hardware.
- Spring assisted opening.

STAINLESS

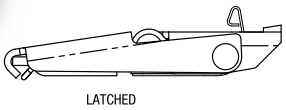


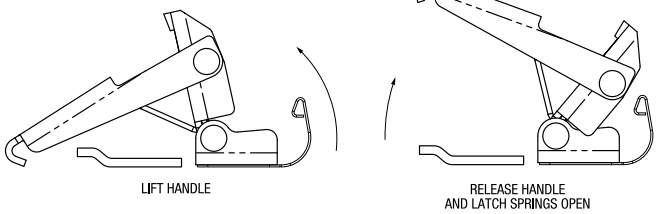
| PART NUMBER |
|---|
| V7-30-302-50 |




**Material:** Stainless steel. **Load:** 150 lbs.

For detailed material specifications plus product installation instructions.
www.clancey.com

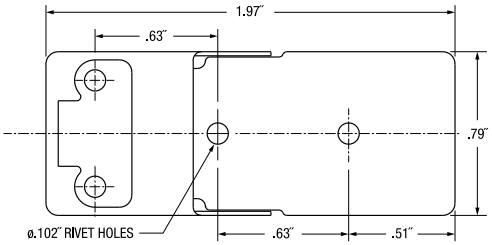


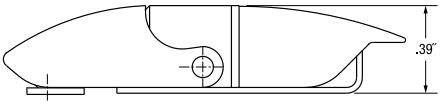




## ENCLOSED OVER-CENTER LATCH, CHROME PLATED

- Clean design – no exposed hardware.
- Attractive chrome finish.





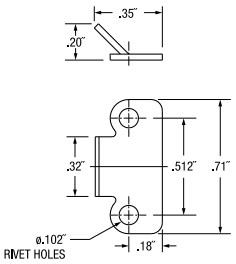




**Material:** Cold rolled steel, chrome finish. **Load:** 45 lbs.

| PART NUMBER | |
|---|---|
| Latch | Keeper |
| V7-40-201-10 | V7-47-201-10 |

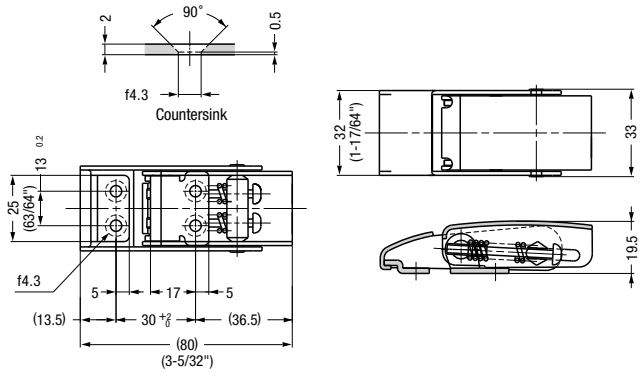
**Keeper**

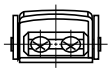




- **Internal spring tensions the latch to resist vibration.**
- **Clean design - no exposed hardware.**

## ENCLOSED OVER-CENTER LATCH SPRING LOADED – STANDARD SIZE



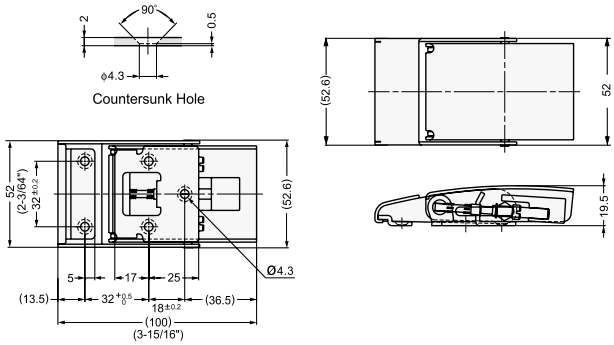


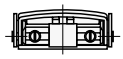
**Material**: 304 stainless steel **Load**: 176 lbs.

**PART NUMBER**
**STF-80**

- **Internal spring tensions the latch to resist vibration.**
- **Clean design - no exposed hardware.**

## ENCLOSED OVER-CENTER LATCH SPRING LOADED – LARGE SIZE





**Material**: 304 stainless steel **Load**: 176 lbs.

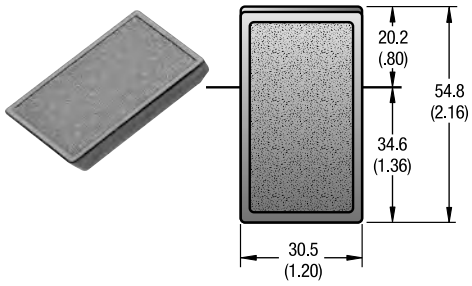
**PART NUMBER**
**STF-100**

## LIVING HINGE SERIES

- **Mounting hardware is concealed.**
- **Draws edge-mating panels together, holds in three planes.**
- **Secondary catch option available.**

NON-CORROSIVE

Mount with .125" diameter countersunk head rivets, M3, or No. 4 flat head screws (not included).

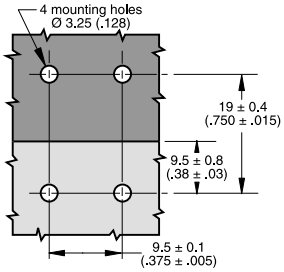



**Material:**
**Polypropelene**

**Flammability rating:**
**UL94-HB**

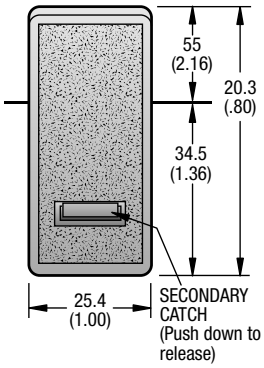
| PART NUMBER | |
|---|---|
| White | 07-10-201-11 |
| Black | 07-10-201-12 |

### PANEL PREPARATION (both models)




### SECONDARY CATCH MODEL






| Secondary Catch Color | PART NUMBER |
|---|---|
| Red | **07-10-501-70** |
| Black | **07-10-501-72** |

**NOTE: Custom colors are available.**

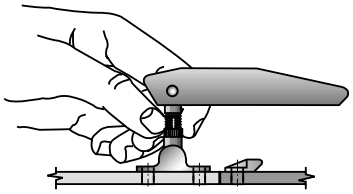
## ADJUSTABLE STYLE

- **Adjustable grip range/latching force.**
- **Non-corrosive materials.**
- **Mounting hardware is concealed.**

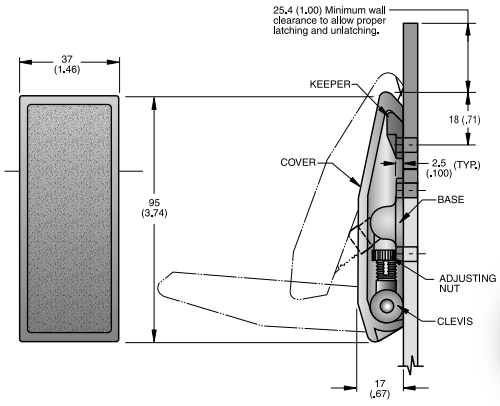
NON-CORROSIVE



| PART NUMBER |
|---|
| **E8-10-502-20** |



To adjust latching force, thread adjustment nut up or down clevis (total 7.9 mm or .31" range).

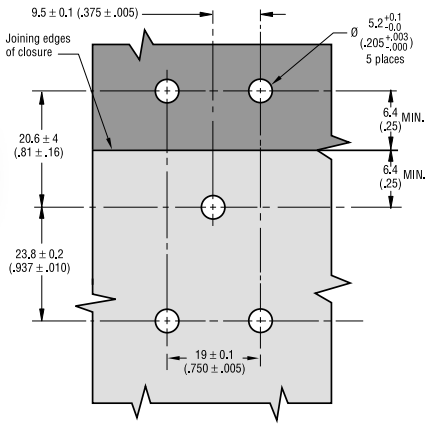



**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

### PANEL PREPARATION

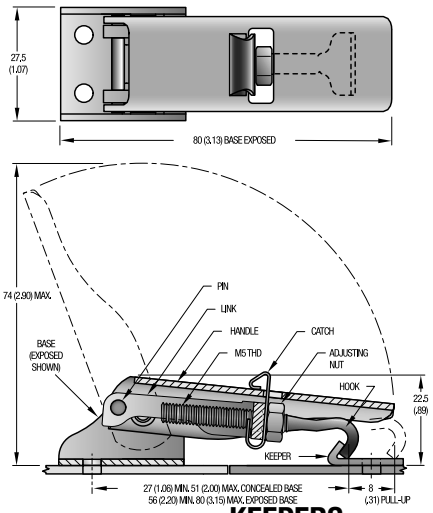
Mount with M5 or No. 10 screws or 3/16" diameter rivets.



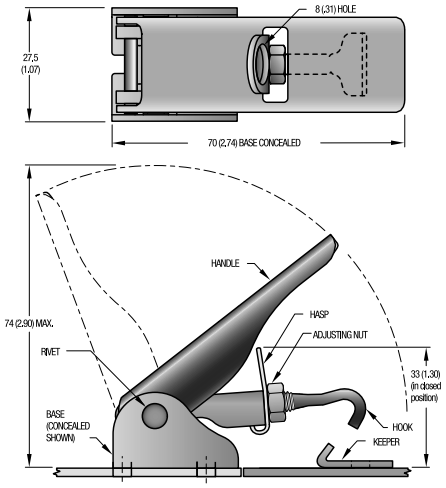
- Can securely latch out of plane applications.
- Kickout feature moves unlatched hook from keeper.
- Adjustable latch hook.
- Black stainless available (plain handle only).

## UNDER-CENTER SERIES

### LATCH – SECONDARY CATCH OPTION (shown with exposed base + keepers)




### LATCH – PADLOCK HASP OPTION (shown with concealed base + exposed keepers)





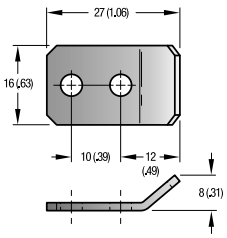


padlock hasp (shown)

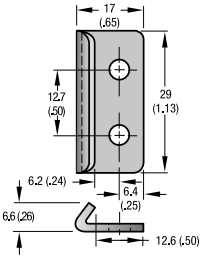
**For detailed material specifications plus product installation instructions.**
**www.clancey.com**

### KEEPERS

#### CONCEALED




#### EXPOSED



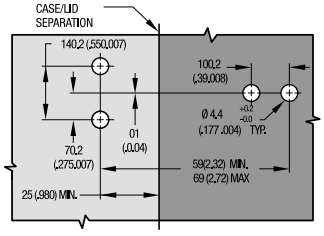

| Finish | KEEPER PART NUMBERS | |
|---|---|---|
| | (Concealed) | (Exposed) |
| steel, zinc palte | 91-600-07 | K4-2338-07 |
| stainless steel, bright | 91-600-52 | K4-2338-52 |
| stainless steel, black | 91-600-63 | K4-2338-63 |

**Note: Order latch and keeper separately.**

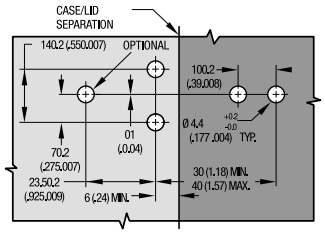
| Style | Finish | LATCH PART NUMBERS |
|---|---|---|
| Concealed base | Steel, zinc plate | 91-512-07 |
| | Stainless steel, black | 91-512-25 |
| | Stainless steel, bright | 91-512-52 |
| Concealed base with secondary catch | Steel, zinc plate | 91-522-07 |
| | Stainless steel, bright | 91-522-52 |
| Concealed base with padlock hasp | Steel, zinc plate | 91-532-07 |
| | Stainless steel, bright | 91-532-52 |
| Exposed base | Steel, zinc plate | 91-552-07 |
| | Stainless steel, black | 91-552-25 |
| | Stainless steel, bright | 91-552-52 |
| Exposed base with secondary catch | Steel, zinc plate | 91-562-07 |
| | Stainless steel, bright | 91-562-52 |
| Exposed base with padlock hasp | Steel, zinc plate | 91-572-07 |
| | Stainless steel, bright | 91-572-52 |

### PANEL PREPARATIONS

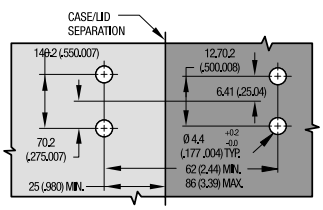
Exposed Base Latch – Concealed Keeper



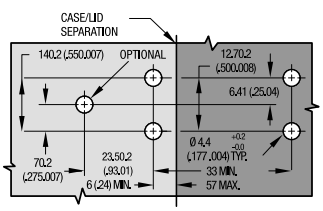

Concealed Base Latch – Concealed Keeper




Exposed Base Latch – Exposed Keeper




Concealed Base Latch – Exposed Keeper



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## SPRING LOADED DRAW LATCHES

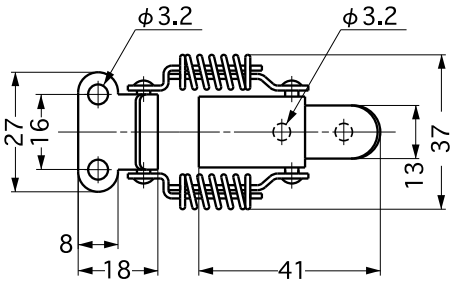
- Spring loaded design compensates for tolerance and vibration.
- Non-corrosive.

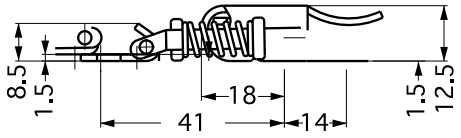
STAINLESS

### COMPACT

- 304 stainless steel, satin finish.





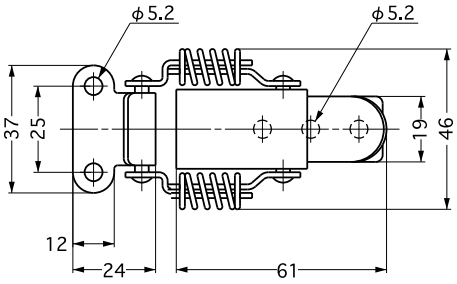



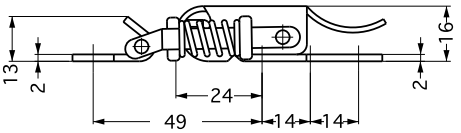

| PART NUMBER |
| --- |
| SCC-40 |

### STANDARD

- 304 stainless.





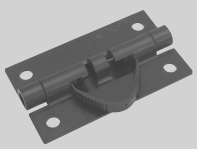

| PART NUMBER |
| --- |
| SCC-60 |

## HINGES

See our full line of hinge offerings
page 156 – 176



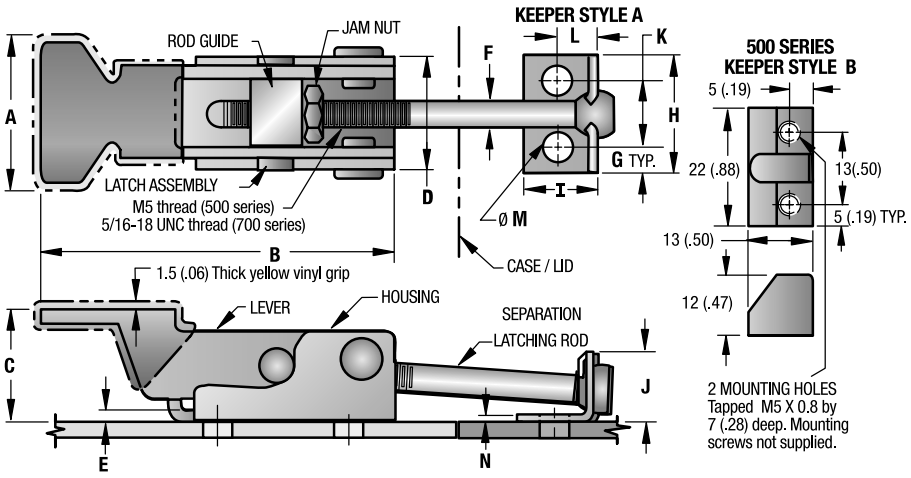






- **Latching rod adjusts to fit grip range.**
- **Steel or stainless steel available.**
- **Optional hooked latching rod available.**

## ADJUSTABLE SERIES SMALL AND MEDIUM SIZES





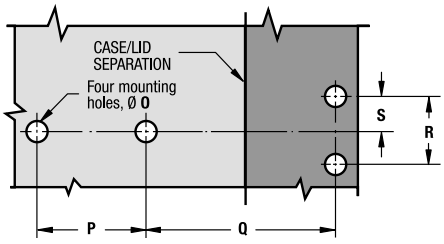


| SIZE | DIMENSIONS | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
| Small | 27 (1.06) | 68 (2.66) | 20 (.78) | 21 (.82) | 1.6 (.060) | 4.4 (.17) | 5 (.19) | 22 (.88) | 14 (.56) | 11 (.44) | 13 (.50) | 8 (.31) | 5.2 (.203) | 1.3 (.050) |
| Medium | 40 (1.56) | 113 (4.45) | 32 (1.25) | 31 (1.21) | 1.9 (.075) | 7 (.27) | 6 (.25) | 31 (1.21) | 19 (.75) | 19 (.75) | 19 (.75) | 11 (.44) | 6.7 (.265) | 1.5 (.060) |

| SIZE | INSTALLATION DIMENSIONS | | | | | |
|---|---|---|---|---|---|---|
| | Ø O +0.2 -0.0 (+.010 -.000) | P +0.1 -0.2 (+.005 -.010) | Q MIN. | Q MAX. | R 0.2 (.005) | S 0.2 (.005) |
| **Latch with keeper style A** | | | | | | |
| Small | 5.2 (.203) | 25.5 (1.000) | 25 (1.00) | 44 (1.75) | 12.7 (.500) | 6.4 (.250) |
| Medium | 6.7 (.257) | 44.5 (1.750) | 24 (.94) | 57 (2.25) | 19 (.750) | 9.5 (.375) |
| **Latch with keeper style B** | | | | | | |
| Small | 5.2 (.203) | 25.5 (1.000) | 29 (1.13) | 48 (1.88) | 12.7 (.500) | 6.4 (.250) |

| KEEPER STYLE | PART NUMBERS | |
|---|---|---|
| | Steel, zinc plated | Stainless steel, passivated |
| **Small Size** without **yellow** vinyl grip | | |
| A | A1-10-501-10 | A1-10-501-40 |
| B | A1-10-503-10 | ——— |
| **Small Size** with **yellow** vinyl grip | | |
| A | A1-10-501-20 | A1-10-501-50 |
| B | A1-10-503-20 | ——— |
| **Medium Size** without **yellow** vinyl grip | | |
| A | A1-10-701-10 | A1-10-701-40 |
| **Medium Size** with **yellow** vinyl grip | | |
| A | A1-10-701-20 | A1-10-701-50 |

### PANEL PREPARATION



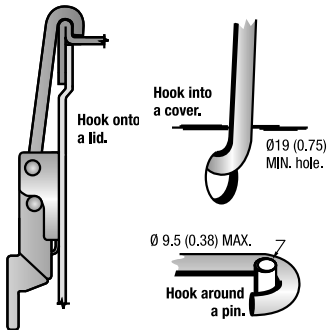

- **Base dimensions are the same as ball-end latching rod above.**
- **Visit www.clancey.com for specific dimensional details on the hooked latching rod.**

## ADJUSTABLE SERIES HOOKED LATCHING ROD



### LATCH WITH HOOKED ROD

| PART NUMBERS | |
|---|---|
| Steel, zinc plated | Stainless steel, passivated |
| **Small Size** without **yellow** vinyl grip | |
| A1-11-502-10 | A1-11-502-40 |
| **Small Size** with **yellow** vinyl grip | |
| A1-11-502-20 | A1-11-502-50 |
| **Medium Size** without **yellow** vinyl grip | |
| ——— | A1-11-702-40 |
| **Medium Size** with **yellow** vinyl grip | |
| A1-11-702-20 | A1-11-702-50 |




**For detailed material specifications plus product installation instructions.**

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## VERSA LATCH® SERIES

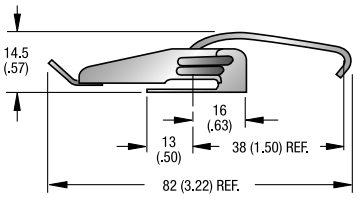
- **Torsion springs compensate up to 2.3 mm (.09") for misalignment.**
- **Padlockable and wire sealed versions for security.**
- **Economical, solution.**

STAINLESS STEEL AVAILABLE



### SHORT BLADE

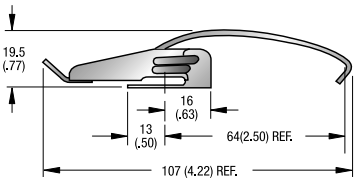
| MATERIAL | PART NUMBER |
|---|---|
| Steel | V2-0025-07 |
| Stainless Steel | V2-0025-52 |
| | |
| MINIMUM | MAXIMUM |
| 55 (2.17") | 57.3 (2.26") |






### LONG BLADE

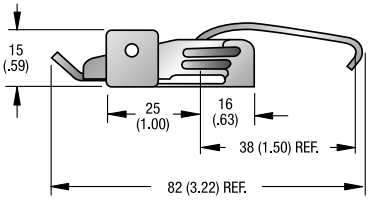
| MATERIAL | PART NUMBER |
|---|---|
| Steel | V2-0068-07 |
| "S" DIMENSION | |
| MINIMUM | MAXIMUM |
| 80.7 (3.17") | 83 (3.26") |






### WIRE SEALING

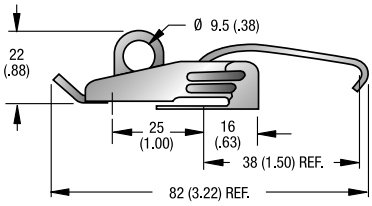
| MATERIAL | PART NUMBER |
|---|---|
| Steel | V2-0034-07 |
| Stainless Steel | V2-0034-52 |
| "S" DIMENSION | |
| MINIMUM | MAXIMUM |
| 55 (2.17") | 57.3 (2.26") |






### PADLOCKABLE

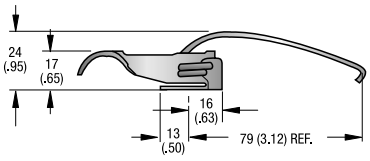
| MATERIAL | PART NUMBER |
|---|---|
| Steel | V2-0026-07 |
| Stainless Steel | V2-0026-52 |
| | |
| MINIMUM | MAXIMUM |
| 55 (2.17") | 57.3 (2.26") |



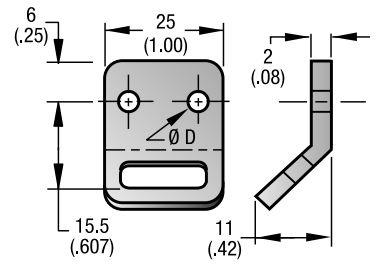



### MEDIUM SIZE LONG BLADE

| MATERIAL | PART NUMBER |
|---|---|
| Steel | V2-0072-07 |
| "S" DIMENSION | |
| MINIMUM | MAXIMUM |
| 96.7 (3.80") | 99 (3.90") |

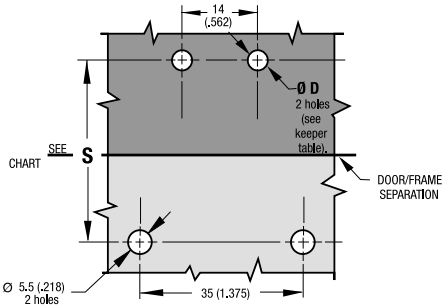



### KEEPERS – ALL MODELS




| ø D | STEEL | STAINLESS STEEL |
|---|---|---|
| 3.4 (.135) | V2-0018-07 | V2-0018-52 |
| 5.5 (.218) | V2-0054-07 | V2-0054-52 |

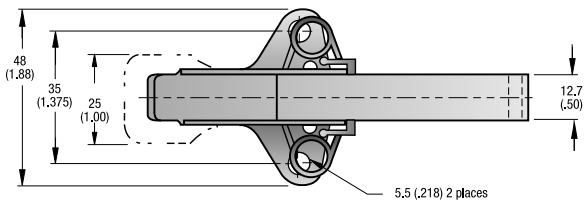
### PANEL PREPARATION




**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

### DIMENSION DRAWING – TOP VIEW – ALL MODELS



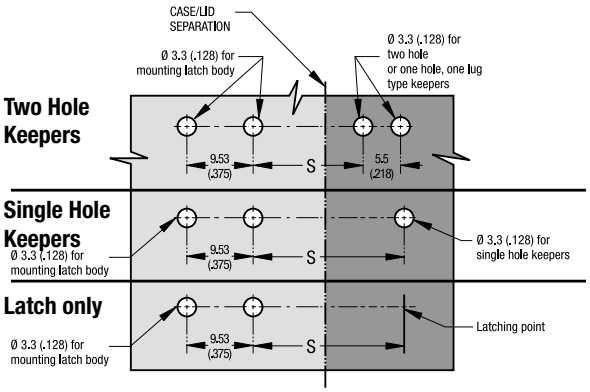
- Steel or stainless steel.
- Variety of keeper styles.

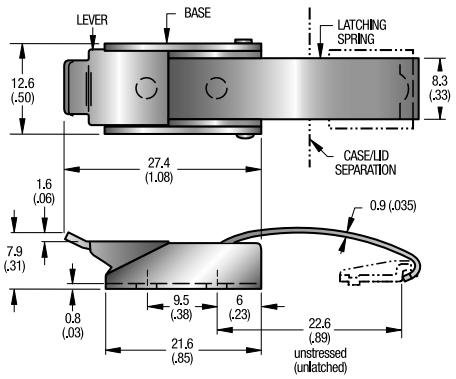
## OVER-CENTER SERIES SMALL SIZE

STAINLESS STEEL AVAILABLE

### PANEL PREPARATION

**Mount latches and keepers with M3 (No. 4) screws.**
**For button type keeper, use a countersunk head screw.**



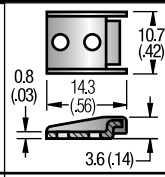
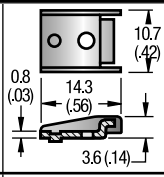
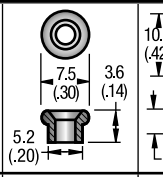
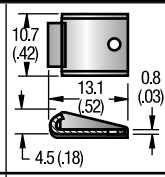
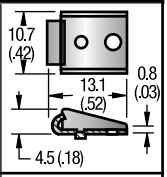

**Note: Order latch and keeper separately.**



NSF

| LATCH PART NUMBER | |
|---|---|
| STEEL | STAINLESS STEEL |
| 97-30-160-11 | 97-30-160-12 |

For detailed material specifications plus product installation instructions.
www.clancey.com

| KEEPER PART NUMBERS | | | | | |
|---|---|---|---|---|---|
| Material |  |  |  |  |  |
| Steel | 97-37-103-11 | 97-37-101-11 | 97-37-105-11 | 97-37-104-11 | 97-37-102-11 |
| Stainless Steel | 97-37-103-24 | 97-37-101-24 | 97-37-105-24 | 97-37-104-24 | 97-37-102-24 |
| Dimension S | 14.7 (.58) | 14.7 (.58) | 21.8 (.86) | 33 (1.30) | 27.4 (1.08) |

CAD POWERED

**Southco products are CAD powered at www.clancey.com.**
**Download 2D drawings for your bill of materials prints or model parts in 3D in your CAD system.**
**Visit www clancey.com for the resources you need.**

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

## OVER-CENTER SERIES
## MEDIUM SIZE

STAINLESS STEEL AVAILABLE

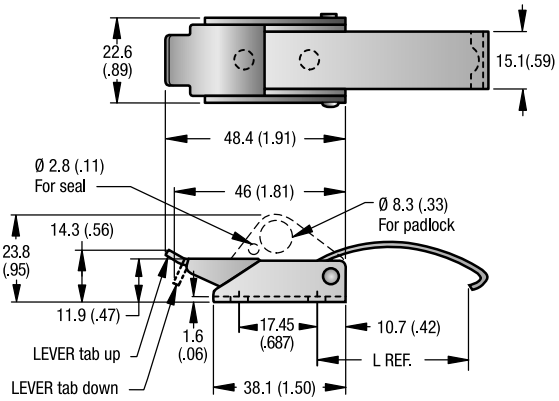


Zinc plated w/secondary catch.

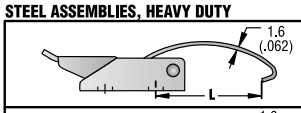
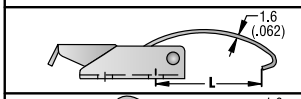
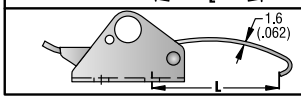
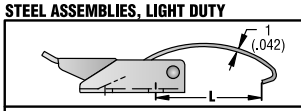
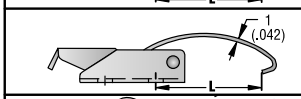
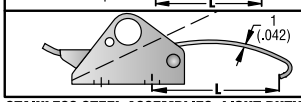
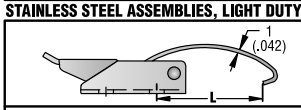
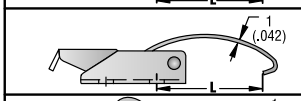
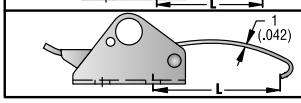


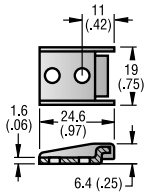
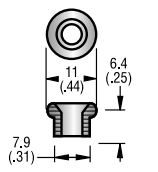
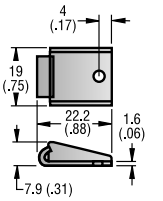
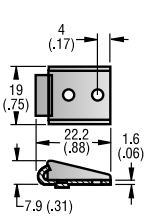
Black powder coat w/padlock hasp

- Optional secondary catch prevents inadvertent release.
- Padlockable and wire sealing options available.
- Steel or stainless steel available.
- Optional black powder coat finish.




**Notes:** Order latch and keeper (if desired) separately.
See panel preparation instructions on page 143.
See optional finishes and secondary catch on page 143.

| LATCH BODY STYLE | LATCHING SPRING LENGTH | L unstressed (unlatched) | LATCH PART NUMBERS |
|---|---|---|---|
| **STEEL ASSEMBLIES, HEAVY DUTY** | | | |
|  | SHORT | 29.4 (1.16) | 97-50-150-11 |
| | MEDIUM | 42.1 (1.66) | 97-50-160-11 |
| | LONG | 54.8 (2.16) | 97-50-170-11 |
|  | SHORT | 29.4 (1.16) | 97-50-250-11 |
| | MEDIUM | 42.1 (1.66) | 97-50-260-11 |
| | LONG | 54.8 (2.16) | 97-50-270-11 |
|  | SHORT | 29.4 (1.16) | 97-50-350-11 |
| | MEDIUM | 42.1 (1.66) | 97-50-360-11 |
| | LONG | 54.8 (2.16) | 97-50-370-11 |
| **STEEL ASSEMBLIES, LIGHT DUTY** | | | |
|  | SHORT | 29.4 (1.16) | 97-50-110-11 |
| | MEDIUM | 42.1 (1.66) | 97-50-120-11 |
|  | SHORT | 29.4 (1.16) | 97-50-210-11 |
| | MEDIUM | 42.1 (1.66) | 97-50-220-11 |
|  | SHORT | 29.4 (1.16) | 97-50-310-11 |
| | MEDIUM | 42.1 (1.66) | 97-50-320-11 |
| **STAINLESS STEEL ASSEMBLIES, LIGHT DUTY ONLY** | | | |
|  | SHORT | 29.4 (1.16) | 97-50-110-12 |
| | MEDIUM | 42.1 (1.66) | 97-50-120-12 |
| | LONG | 54.8 (2.16) | 97-50-130-12 |
|  | SHORT | 29.4 (1.16) | 97-50-210-12 |
| | MEDIUM | 42.1 (1.66) | 97-50-220-12 |
| | LONG | 54.8 (2.16) | 97-50-230-12 |
|  | SHORT | 29.4 (1.16) | 97-50-310-12 |
| | MEDIUM | 42.1 (1.66) | 97-50-320-12 |
| | LONG | 54.8 (2.16) | 97-50-330-12 |

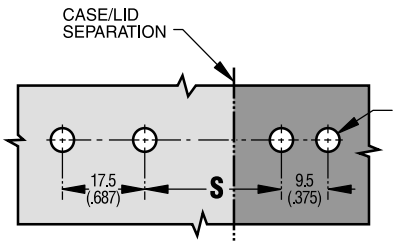
| KEEPER PART NUMBERS | |
|---|---|
|  | 97-57-103-11 |
|  | 97-57-105-11 |
|  | 97-57-104-11 |
|  | 97-57-102-11 |

* Visit www.clancey.com for detailed material and strength information.

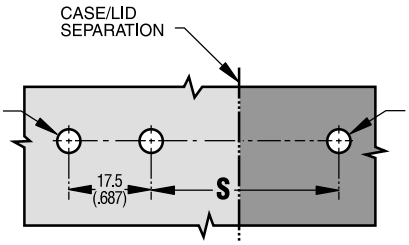
## PANEL PREPARATION (over-center series, medium size)

- **Mount latches and keepers with M4, No. 8 screws or 5/32" rivets. For button keepers use a countersunk head screw.**

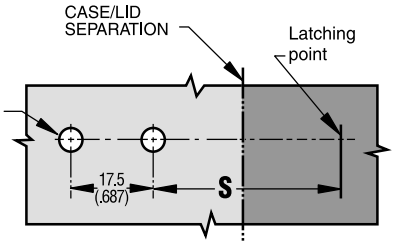
### TWO HOLE KEEPERS




### SINGLE HOLE KEEPERS

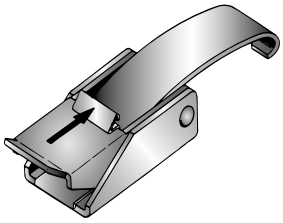



### LATCH ONLY




**OPTIONAL FEATURE**
**(over center series, medium size)**

**SECONDARY CATCH**



- **Resists vibration.**
- **Prevents inadvertent release.**

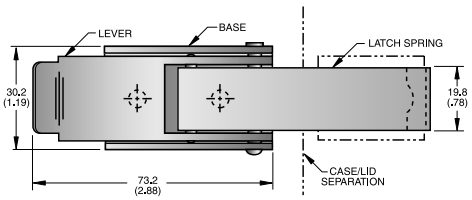
| LATCHING SPRING LENGTH | DIMENSION S – according to keeper style | | | | |
|---|---|---|---|---|---|
| |  |  |  |  | LATCH ONLY (NO KEEPER) |
| SHORT | 15.9 (.63) | 29.4 (1.16) | 47.6 (1.88) | 38.1 (1.50) | 31.2 (1.23) |
| MEDIUM | 28.6 (1.13) | 42.1 (1.66) | 60.3 (2.38) | 50.8 (2.00) | 43.9 (1.73) |
| LONG | 41.3 (1.63) | 54.8 (2.16) | 73.0 (2.88) | 63.5 (2.50) | 56.6 (2.23) |

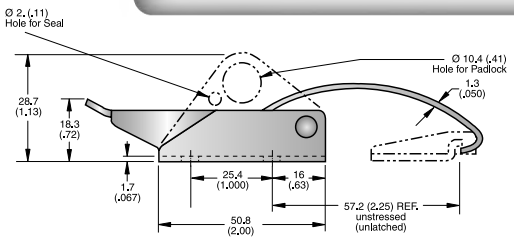
**To order secondary catch:**
Change the next-to-last digit of the part number on page 138 from 1 to **2**.
Example: 97-50-XXX-**2**X

**To order black finish (steel only):**
Change the last digit of the part number on page 138 from 1 to **5**.
Example: 97-50-XXX-X**5**

- **Padlockable and wire sealing options.**
- **Black or bright finish.**

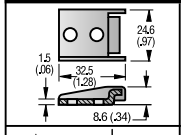
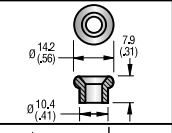
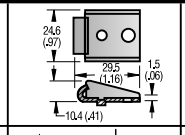
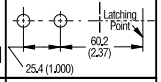
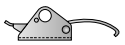
## OVER-CENTER SERIES, LARGE SIZE






- **Mounting holes all Ø 5.2mm (.203). Use M5, No. 10 screws or 3/16" rivets.**

| LATCH BODY STYLE | FINISH (Lever, Base, Keeper, and Latching spring) | ASSEMBLY PART NUMBERS | | | |
|---|---|---|---|---|---|
| | |  |  |  | Latch only no keeper  |
|  | bright | 97-60-121-11 | 97-60-123-11 | 97-60-124-11 | 97-60-120-11 |
| | black | 97-60-121-15 | 97-60-123-15 | 97-60-124-15 | 97-60-120-15 |
|  | bright | 97-60-321-11 | 97-60-323-11 | 97-60-324-11 | 97-60-320-11 |
| | black | 97-60-321-15 | 97-60-323-15 | 97-60-324-15 | 97-60-320-15 |

**For detailed material specifications plus product installation instructions.**
**www.clancey.com**

- **Extra large size is also available. Please call.**

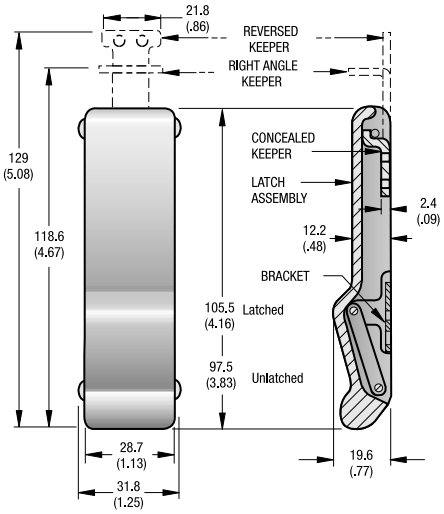
## SOFT LATCH® - SMALL SIZE

- **Elastomer body absorbs vibration, cushions impact and tolerates misalignment.**
- **3 keeper configurations.**
- **Stainless steel brackets and keepers.**

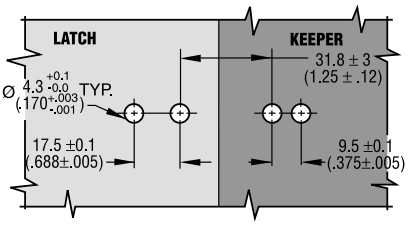
NON-CORROSIVE



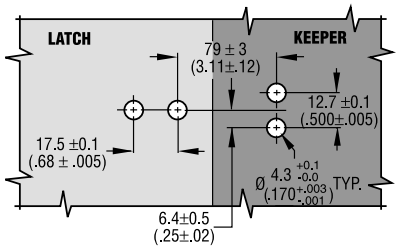
| Keeper Style | ASSEMBLY PART NUMBER |
|---|---|
| Concealed | C7-10 |
| Reverse Keeper | C7-11 |
| Right Angle Keeper | C7-12 |




### PANEL PREPARATION




### PANEL PREPARATION
For Reversed Keeper

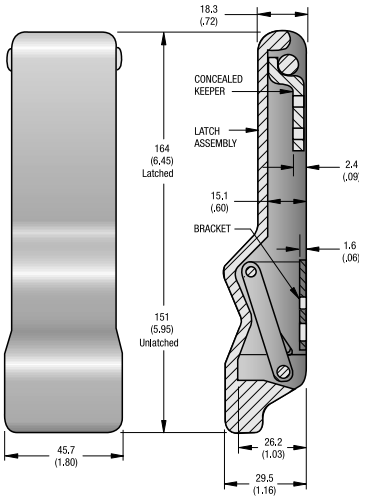



## SOFT LATCH® - LARGE SIZE

NON-CORROSIVE

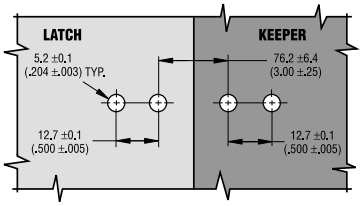


| ASSEMBLY PART NUMBER |
|---|
| C7-20 |



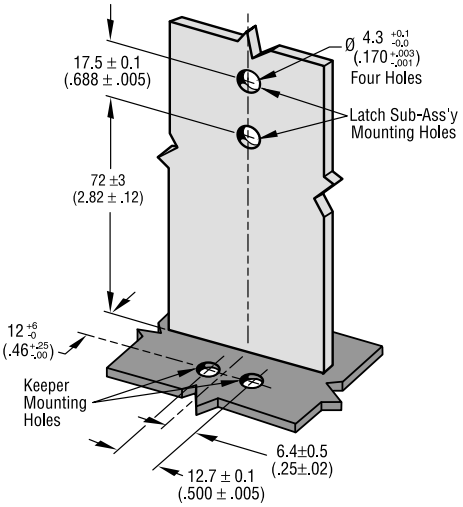

- **Same great features in a larger size.**
- **Ideal for outdoor applications subject to vibration.**
- **Additional options available.**

### PANEL PREPARATION




Use 5mm (3/16") rivets, M5 or No. 10 screws for mounting.

### PANEL PREPARATION
For Right Angle Keeper




Use 4mm (5/32") rivets, M4 or No. 8 size screws for mounting.

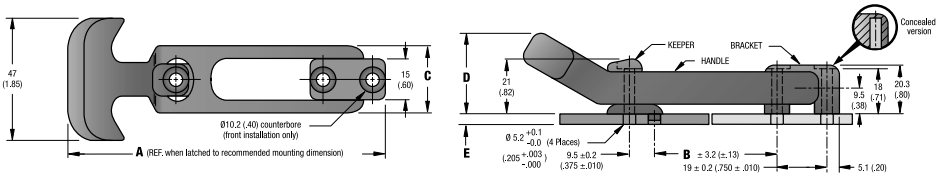
**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

- **Non-corrosive UV resistant materials.**
- **Compensates for misalignment in three planes.**
- **Absorbs vibration.**
- **3 lengths, front or concealed mounting.**

## FLEXIBLE T-HANDLE STYLE

NON-CORROSIVE






| PART NUMBERS | | | Installation method | Dimensions | | | | |
|---|---|---|---|---|---|---|---|---|
| Latch | Keeper | Screws (3 per bag) | | E | A | B | C | D |
| F7-530 | F7-537 | — | Front | — | 112 (4.81) | 41 (1.6) | 25.4 (1.00) | 31 (1.23) |
| F7-540 | F7-547 | F7-548-3 | Concealed (thread forming) | up to 8.0 (.32) | | | | |
| | | F7-558-3 | Concealed (thread forming) | 8.1 (.32) to 17.5 (.69) | | | | |
| F7-630 | F7-537 | — | Front | — | 167 (6.6) | 72 (2.83) | 32 (1.25) | 298 (1.13) |
| F7-640 | F7-547 | F7-548-3 | Concealed (thread forming) | up to 8.0 (.32) | | | | |
| | | F7-558-3 | Concealed (thread forming) | 8.1 (.32) to 17.5 (.69) | | | | |
| F7-730 | F7-537 | — | Front | — | 221 (8.7) | 117 (4.6) | 32 (1.25) | 29 (1.13) |
| F7-740 | F7-547 | F7-548-3 | Concealed (thread forming) | up to 8.0 (.32) | | | | |
| | | F7-558-3 | Concealed (thread forming) | 8.1 (.32) to 17.5 (.69) | | | | |

**Notes:** **For concealed mounting order thread forming screw package based on panel thickness.**

**For front mounting, customer supplied #10, M5 or 3/16" rivets based on panel thickness.**

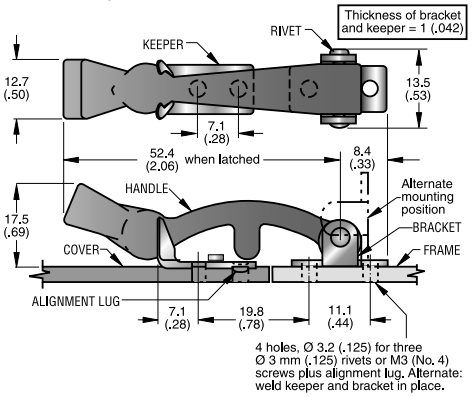
- **Refer to above drawing and table for panel preparation.**

## TAB-HANDLE STYLE

- **Absorbs vibration.**
- **Steel or stainless steel mounting hardware.**

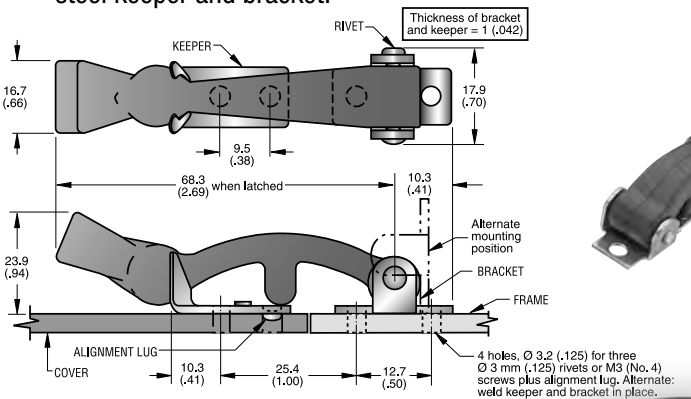
STAINLESS STEEL AVAILABLE

Small size with stainless steel keeper and bracket.




| PART NUMBER |
|---|
| Stainless Steel |
| 37-10-051-20 |

Medium size with zinc plated steel keeper and bracket.






| PART NUMBER |
|---|
| Steel Zinc Plated |
| 37-10-061-10 |

**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

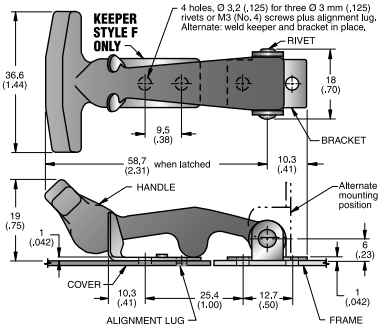
## T-HANDLE SERIES

- **Absorbs vibration.**
- **Steel or stainless steel base and keeper.**
- **Available unassembled (steel only, select sizes) for easy painting of base and keeper.**
- **Available in stainless steel.**

### SMALL SIZE



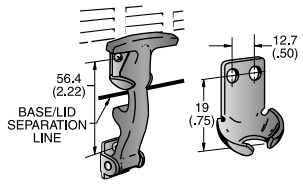
| PART NUMBERS | |
|---|---|
| Steel Base and Keeper | Stainless Steel Base and Keeper |
| **37-10-065-10** | **37-10-65-20** |



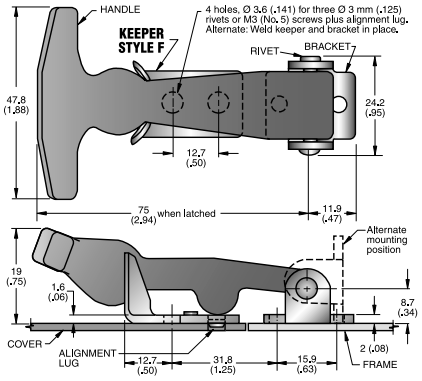

### MEDIUM SIZE



### KEEPER STYLE R




| Keeper Style | PART NUMBERS | |
|---|---|---|
| | Steel Base and Keeper | Stainless Steel Base and Keeper |
| F | **37-10-071-10** | **37-10-071-20** |
| R | **37-20-071-10** | **37-20-071-20** |

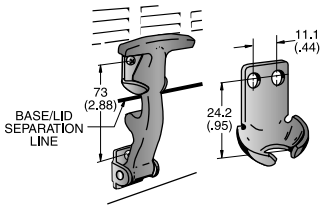



- **This latch can be ordered unassembled.** Change -071- to -072- (steel only).

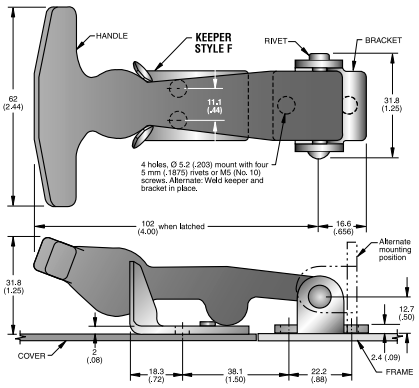
### LARGE SIZE



### KEEPER STYLE R




| Keeper Style | PART NUMBERS | |
|---|---|---|
| | Steel Base and Keeper | Stainless Steel Base and Keeper |
| F | **37-10-086-10** | **37-10-86-20** |
| R | **37-20-086-10** | **37-20-86-20** |



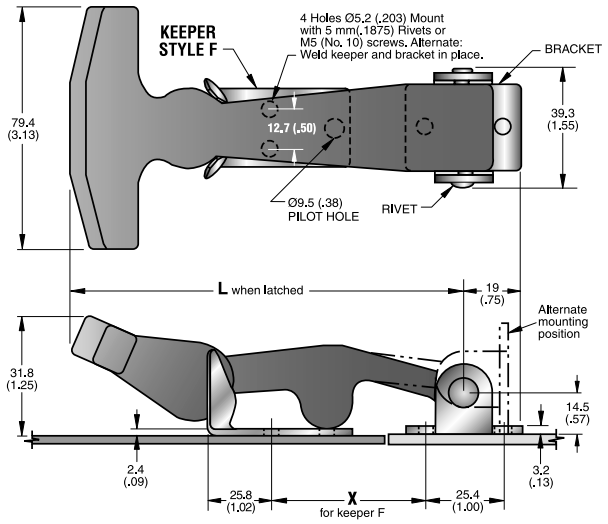

- **This latch can be ordered unassembled.** Change -086- to -087- (steel only).

**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

# FLEXIBLE DRAW LATCH T-HANDLE SERIES

**Regular (100 series) can be ordered unassembled. change -101- to -102 (steel only)**

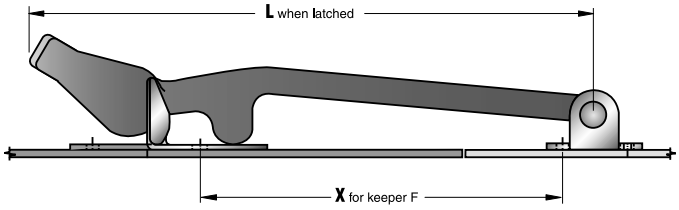



**EXTRA - LARGE SIZE**

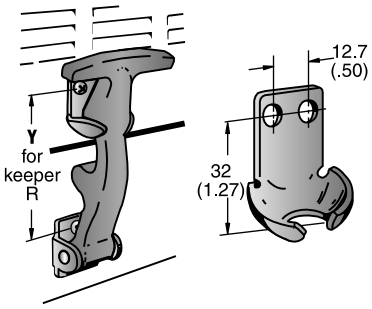


**STANDARD LENGTH**
**100 SERIES (pictured)**

**130 SERIES EXTENDED LENGTH**




**KEEPER STYLE R**



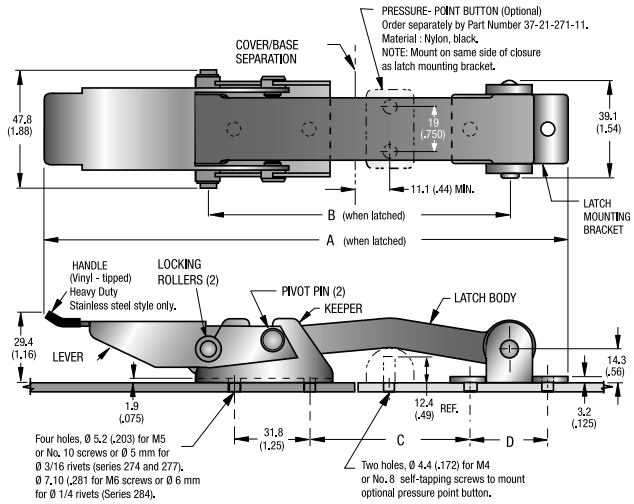

**For detailed material specifications plus product installation instructions.**
**www.clancey.com**

| SERIES | L | X | Y | KEEPER STYLE | PART NUMBERS | |
|---|---|---|---|---|---|---|
| | | | | | Plated Steel, Black Rubber | Stainless Steel Metal Parts, Black Rubber |
| 100 | 130.2 (5.13) | 50.8 (2.00) | — | F | 37-10-101-10 | 37-10-101-20 |
| | | — | 90.5 (3.56) | R | 37-20-101-10 | 37-20-101-20 |
| 130 | 247.7 (9.75) | 165.1 (6.50) | — | F | 37-10-131-10 | 37-10-131-20 |
| | | — | 204.8 (8.06) | R | 37-20-131-10 | 37-20-131-20 |

## FLEXIBLE DRAW LATCH LEVER ASSISTED STYLE

- Absorbs vibration.
- 3 Sizes.
- For heavy duty applications.
- Optional pressure point button.






| DIMENSIONS | | | | PART NUMBERS | |
|---|---|---|---|---|---|
| A | B | C | D | Steel | Stainless Steel |
| 241.3 (9.50) | 152.4 (6.00) | 96.8 (3.81) | 25.4 (1.00) | 37-10-274-10 • | 37-10-274-20 • |
| 366.7 (14.44) | 277.8 (10.94) | 222.3 (8.75) | | 37-10-277-10 • | 37-10-277-20 • |
| **Heavy Duty** | | | | | |
| 245.3 (9.66) | 152.4 (6.00) | 93.7 (3.69) | 31.8 ( 1.25) | 37-10-284-50 • | 37-10-284-25 • |

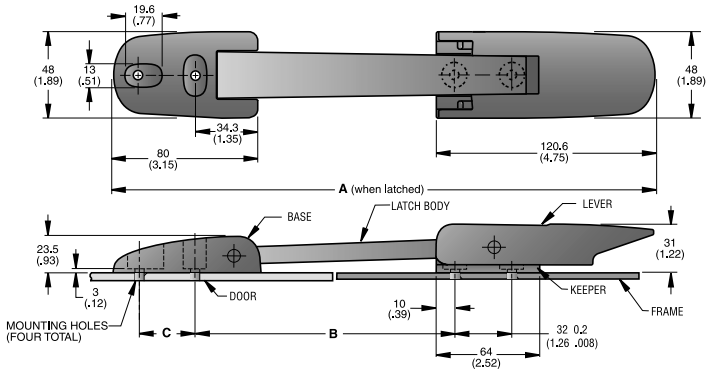
| OPTIONAL PRESSURE BUTTON |
|---|
| 37-21-271-11 |

## AEROLATCH™ LEVER ASSISTED STYLE

NON-CORROSIVE

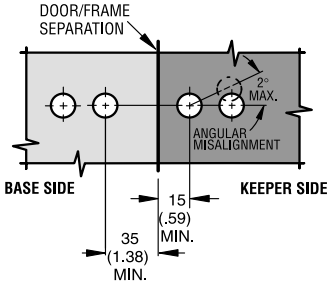
- For heavy duty applications.
- Non-corrosive, UV-stable materials.
- Absorbs vibration.






| DIMENSIONS | | | PART NUMBERS | MOUNTING HOLE SIZE | PAN or ROUND HEAD SCREW SIZE |
|---|---|---|---|---|---|
| A | B | C ± 0.2 (.008) | | | |
| 254 (10) | 97 ± 3 (3.82 ± .12) | 25.4 (1.00) | 37-30-294-60 | Ø 5.5 ± 0.1 (.217 ±.004) | M5 (No. 10) |
| 379 (15) | 222 ± 6 (8.74 ± .24) | | 37-30-297-60 | | |
| **HEAVY DUTY** | | | | | |
| 300 (12) | 144 ± 4 (5.67 ± .16) | 32 (1.25) | 37-40-295-60 | Ø 6.6 ± 0.1 (.260 ±.004) | M6 (1/4-20) |

### PANEL PREPARATION



- Progressively draws two panels together.
- Can compress gaskets to air or water tight standards.
- Multiple mounting options.

## ROTO LOCK® BUTT-JOINT PANEL FASTENER

### SHALLOW TAB



### DEEP TAB



### STANDARD



### FRONT MOUNT



| PART NUMBERS | | | | |
|---|---|---|---|---|
| Style | Shallow Tab | Deep Tab | Standard | Front Mount |
| Latch | R2-0259-02 | R2-0169-02 | R2-0055-02 | R2-0267-02 |
| Receptacle | R2-0257-02 | R2-0160-02 | R2-0002-02 | R2-0268-02 |

**TOOL (order separately)**

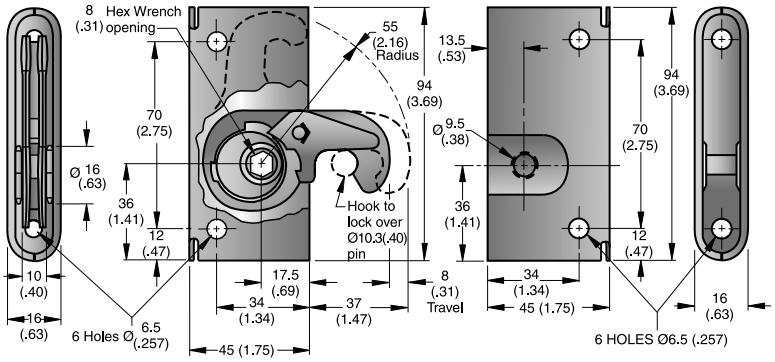
| 8mm Hex Wrench |
|---|
| 29-0059-02 |

Please visit web site www.clancey.com to download complete dimensional drawings and mounting instructions.

For detailed material specifications plus product installation instructions.
www.clancey.com

- Strong closing pressure with minimal closing force.
- Vibration and impact resistant.

## DUAL LOCK® BUTT-JOINT PANEL FASTENER

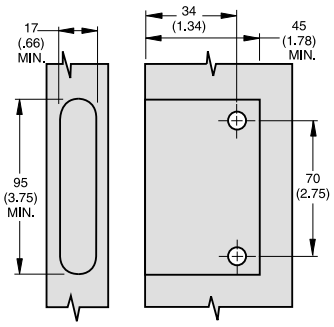




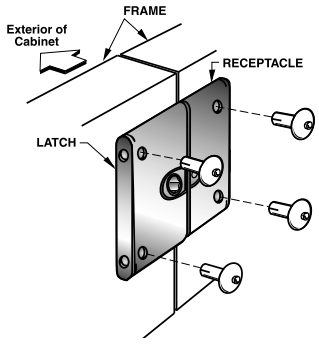

| PART NUMBERS | |
|---|---|
| Latch | Receptacle |
| R5-0074-08 | R5-0079-08 |

### PANEL PREPARATION AND INSTALLATION

#### RECESSED POCKET




#### SIDE MOUNT

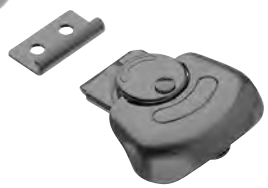



For detailed material specifications plus product installation instructions.
www.clancey.com

## ROTARY ACTION DRAW LATCH STYLIZED WING

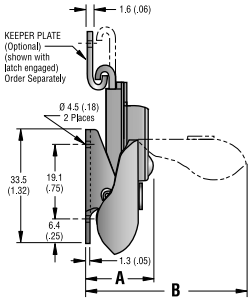
- **Sleek appearance.**
- **Steel (with black finish) or stainless steel (bright).**

STAINLESS STEEL AVAILABLE



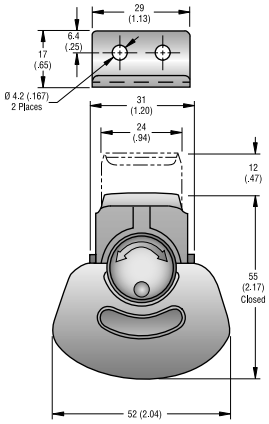
### CONCEALED SPRING LOADED VERSION

**Ideal for applications where shock and vibration occur. Compensates up to 1.7 mm (0.07 in.) for mounting hole irregularities, panel variations and gasket set. Also provides an additional allowance of 2.3 mm (0.09 in.) deflection when loaded.**

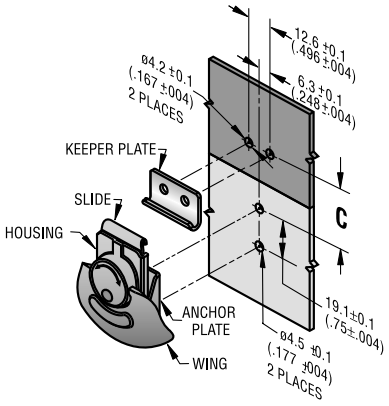



### FIXED VERSION

**Ideal for applications where misalignment is not a concern.**




### PANEL PREPARATION




**Concealed Spring Loaded and Fixed Version dimensions are identical except for dimension "A", "B", and "C" (see table).**

| PART NUMBERS | | | | DIMENSIONS | | |
|---|---|---|---|---|---|---|
| | VERSION | Steel with Black Powder Coat | Stainless Steel | A | B | C |
| LATCH | Spring Loaded | K2-3005-89 | K2-3005-51 | 19 (.73) | 48 (1.89) | $32^{+1.7}_{-0.2}$ ($1.25^{+1.7}_{-0.2}$) |
| | Fixed | K2-3001-89 | K2-3001-51 | 18 (.71) | 47 (1.85) | 32±0.2 (1.25±01) |
| KEEPER PLATE | | K4-2338-89 | K4-2338-51 | | | |

## LINK LOCK® ROTARY ACTION LATCH SMALL SIZE-RIVETED

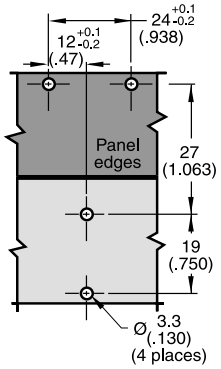
- **For applications where misalignment is not a concern.**

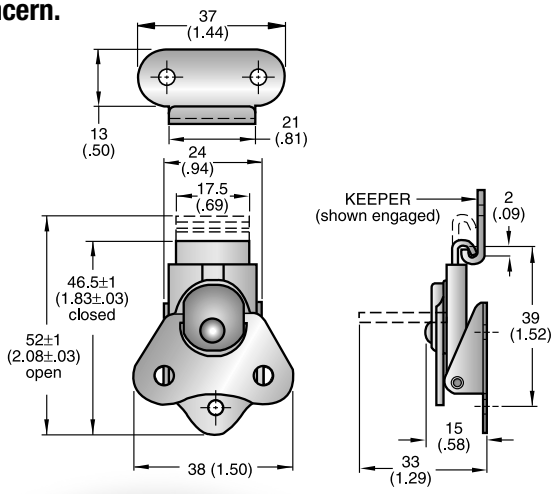
STAINLESS STEEL AVAILABLE



| RIVETED STYLE PART NUMBERS | | |
|---|---|---|
| Type | Steel | Stainless Steel |
| Latch | K3-1625-07 | K3-1625-52 |
| Keeper | K3-0334-07 | K3-0334-52 |

### PANEL PREPARATION



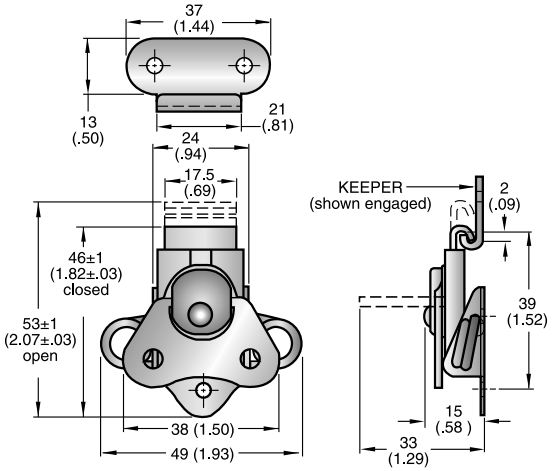

**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

**Many blade (slide) modifications are tooled and available. Please call for assistance.**

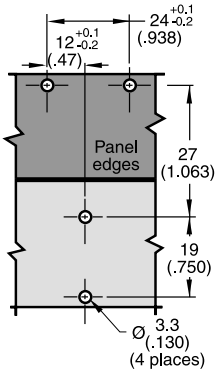
**800-747-7405**

- **Spring loaded anchor plate compensates up to 4 mm (.156") for misalignment.**




## LINK LOCK® ROTARY ACTION LATCH SMALL SIZE-SPRING LOADED

### PANEL PREPARATION

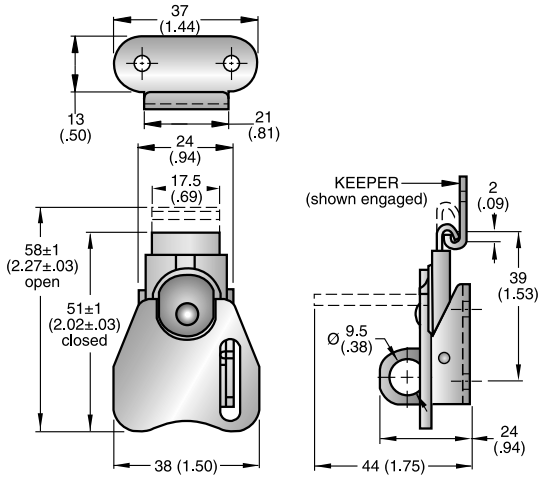






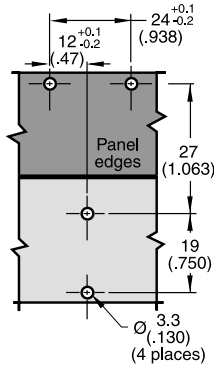
| SPRING LOADED STYLE PART NUMBERS | | |
|---|---|---|
| Type | Steel | Stainless Steel |
| Latch | K3-1735-07 | K3-1735-52 |
| Keeper | K3-0334-07 | K3-0334-52 |

- **Security lock-out option.**




## LINK LOCK® ROTARY ACTION LATCH SMALL SIZE-PADLOCKABLE

### PANEL PREPARATION





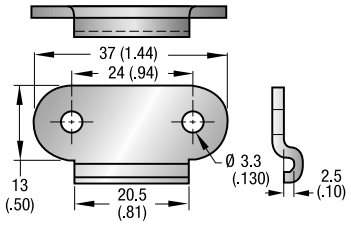


| PAD-LOCKABLE STYLE PART NUMBERS | | |
|---|---|---|
| Type | Steel | Stainless Steel |
| Latch | K3-2403-07 | K3-2403-52 |
| Keeper | K3-0334-07 | K3-0334-52 |

## ADDITIONAL KEEPER PLATE OPTIONS (for small size link locks)

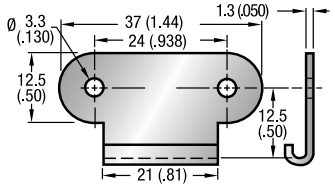
### Right Angle Keeper

| MATERIAL | PART NUMBER |
|---|---|
| Steel | K3-0100-07 |
| Stainless Steel | K3-0100-52 |



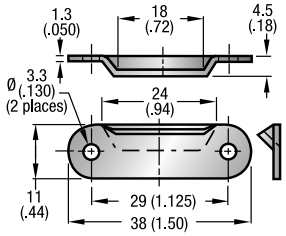

### Elongated Keeper

| MATERIAL | PART NUMBER |
|---|---|
| Steel | K3-0696-07 |




### Concealed Keeper

| MATERIAL | PART NUMBER |
|---|---|
| Steel | K3-1617-07 |



## LINK LOCK® ROTARY ACTION DRAW LATCH MEDIUM SIZE-RIVETED BASE

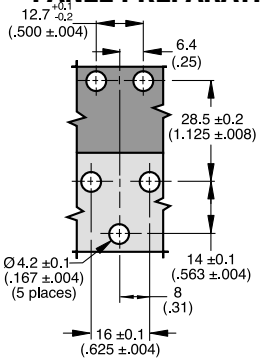
- **For applications where misalignment is not a concern.**

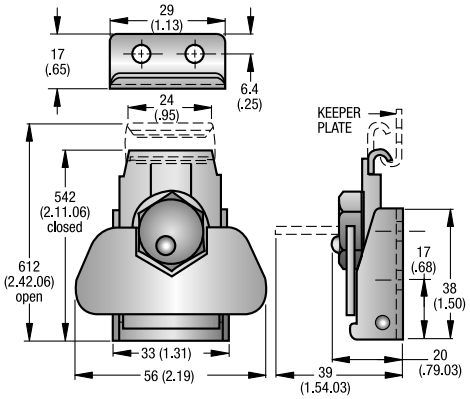


**Material:** Steel
**Finish:** Zinc plated, plus bright chromate dip.

| PART NUMBERS | |
|---|---|
| Latch | K4-2714-07 |
| Keeper | K4-2338-07 |

**PANEL PREPARATION**




## LINK LOCK® ROTARY ACTION DRAW LATCH MEDIUM SIZE-SPRING LOADED

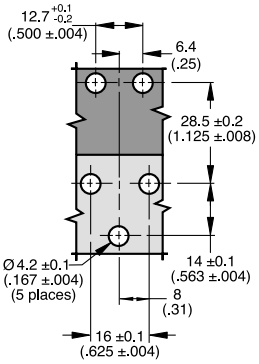
- **Spring loaded anchor plate compensates up to 4mm for misalignment.**

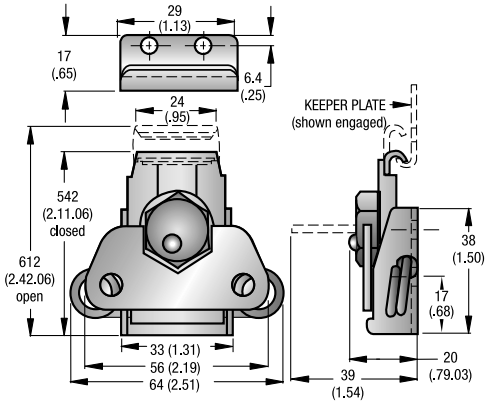


**Material:** Steel
**Finish:** Zinc plated, plus bright chromate dip.

| PART NUMBERS | |
|---|---|
| Latch | K4-2359-07 |
| Keeper | K4-2338-07 |

**PANEL PREPARATION**




## LINK LOCK® ROTARY ACTION DRAW LATCH MEDIUM SIZE-KEY-LOCKING

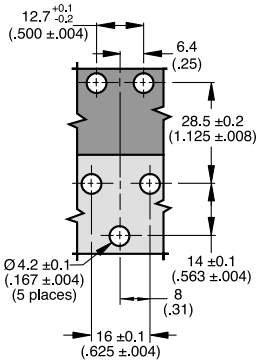
- **Keyed alike, custom keycodes available.**
- **Supplied with two keys.**

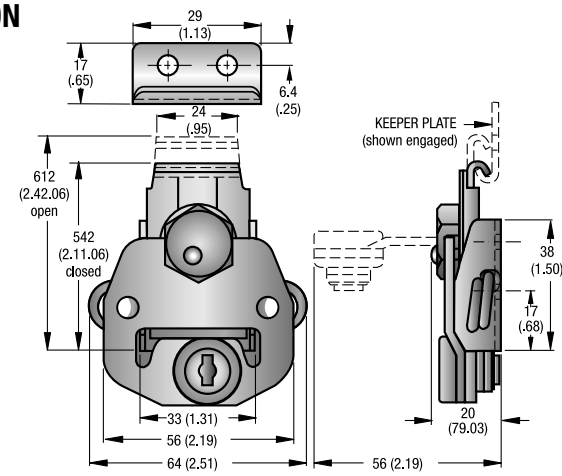


**Material:** Steel
**Finish:** Zinc plated, plus bright chromate dip.

| HEX CAM PART NUMBER | |
|---|---|
| Latch | K4-2833-07 |
| **FLAT CAM PART NUMBER** | |
| Latch | K4-3020-07 |
| Keeper (both styles) | K4-2338-07 |

**PANEL PREPARATION**




* Flat cam dimensions vary slightly from hex cam which is shown.

## LINK LOCK® ROTARY ACTION LATCH LARGE SIZE-SPRING LOADED

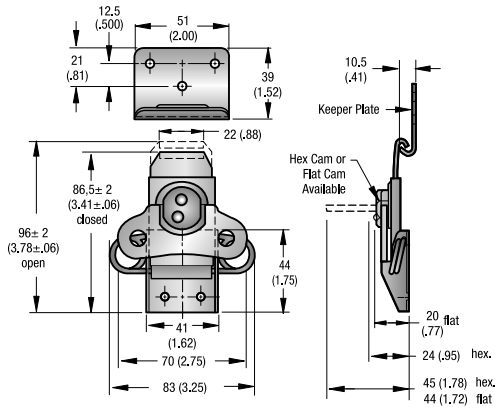
STAINLESS STEEL AVAILABLE

- Flat cam shown in drawing and photo.

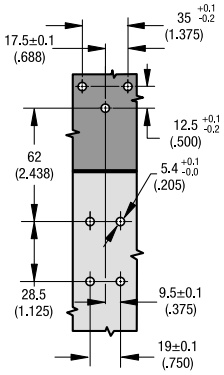


| LATCH TYPE | PART NUMBERS | |
|---|---|---|
| | Steel | Stainless Steel |
| Hex Cam | K5-2858-07 | ———— |
| Flat Cam | K5-2856-07 | K5-2856-52 |
| Keeper Plate | K5-2811-07 | K5-2811-52 |

- Spring loaded anchor plate compensates up to 4mm for misalignment.




## PANEL PREPARATION
(Same for riveted and spring loaded models)




## LINK LOCK® ROTARY ACTION LATCH LARGE SIZE-RIVETED BASE

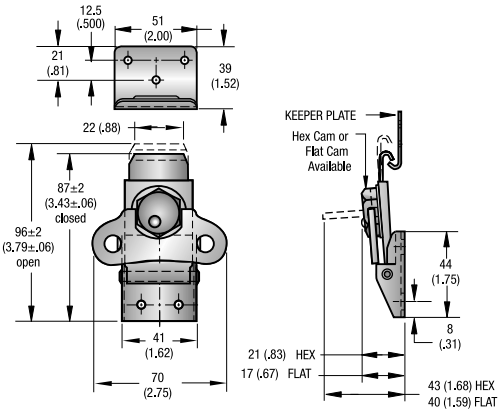
STAINLESS STEEL AVAILABLE

- Hex cam shown in drawing and photo.

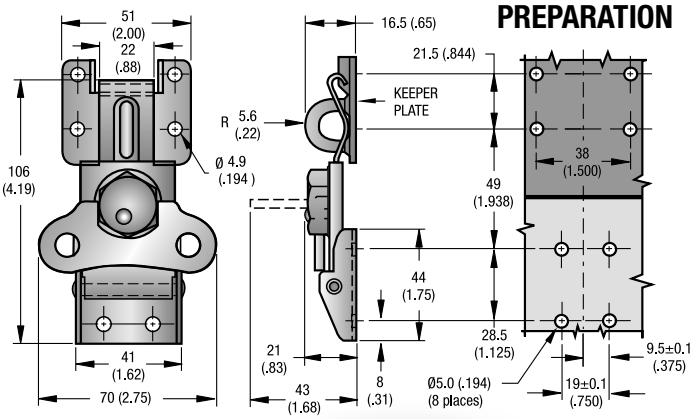


| LATCH TYPE | PART NUMBERS | |
|---|---|---|
| | Steel | Stainless Steel |
| Hex Cam | K5-2812-07 | ———— |
| Flat Cam | K5-2857-07 | K5-2857-52 |
| Keeper Plate | K5-2811-07 | K5-2811-52 |

- For applications where misalignment is not a concern.




- Hex cam, riveted base shown in drawing and photo.




## PANEL PREPARATION

## LINK LOCK® ROTARY ACTION DRAW LATCH LARGE SIZE-PADLOCKABLE

- Security lock out option.



| PART NUMBERS | |
|---|---|
| Hex Cam, Riveted | K5-2755-07 |
| Hex Cam, Spring Loaded | K5-2754-07 |
| Flat Cam, Riveted | K5-1993-07 |
| Flat Cam, Spring Loaded | K5-1994-07 |
| Keeper | K5-1736-07 |

For detailed material specifications plus product installation instructions.
**www.clancey.com**

Try this part in your application. Please call for samples.
**800-747-7405**

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## HOW TO SELECT YOUR CAM LOCK

**For the best results in selecting the proper lock and cam the first time, please use one of the following methods.**

1) **Visit the product configuration tool at www.clancey.com.**
   - **You can get 3D models, request samples and pricing.**
2) **Call your application specialist.**
   - **We are well trained to help you. 800-747-7405.**
3) **Work with the catalog to select your parts.**
   - **Hardest method (sorry) please pay close attention to grips, cam offsets, cam lengths, sealing and finish options.**

**All items are ordered separately.**



**Online Configuration. www.clancey.com**

## REMOVABLE CORE SYSTEMS

- **www.clancey.com or application specialist assisted only.**

**REMOVABLE CORE**

- **Multiple Key Codes**
- **Tool Actuation**
- **Change Key Codes in Future**
- **Configure to Order**



**Non-Sealed**



**CM-6**

**Sealed**



**CM-3**

**LOCK PLUG OPTIONS**

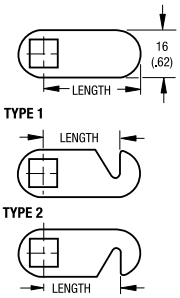
- **Shuttered.**
- **Non-shuttered.**
- **Tool driven.**



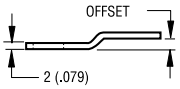
- **Master keyed.**
- **Removal keys.**
- **Keyed alike.**
- **Keyed differently.**
- **Groups of 10, 50, or 125 codes.**

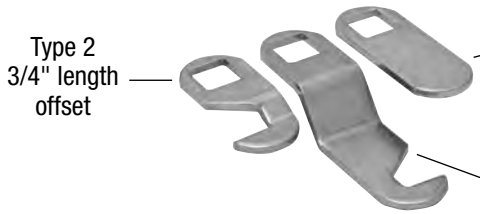
## LOCK CAMS

- **Always ordered separately from locks.**
  - **Three configurations.**
    - **Standard**
    - **Hook-type 1**
    - **Hook-type 2**




  - **Three standard lengths.**
    - **.75" (19mm)**
    - **1.25" (31.8mm)**
    - **1.75" (44.5mm)**
  - **Four standard cam offsets**
    - **Allows for secure grip**
    - **Can be forward or reverse**
    - **See part number chart**




C M – | | | | |

CAM TYPE — CAM OFFSET — CAM LENGTH NUMBER #

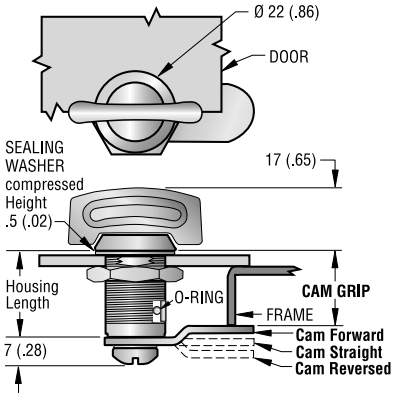
**CAM TYPE**
C = No hook
H = Hook, Type 1
L = Hook, Type 2

**CAM OFFSET**
**0** = No Offset
**2** = 3.2 (.125)
**4** = 6.4 (.250)
**6** = 9.5 (.375)

| CAM LENGTHS | |
|---|---|
| Number | Dimensions |
| 06 | 19 (.75) |
| 10 | 31.8 (1.25) |
| 14 | 44.5 (1.75) |

## WING DRIVER CAM LOCKS

- **Sealed to meet NEMA 4 water intrusion standards.**
- **Smooth operation with superior feel.**




**Fixed Core (Wing, Sealed)**
**PART NUMBER**

C M – 1 – | | 1 | | | – 1 | |

HOUSING LENGTH NUMBER # — HOUSING FINISH — CAM ROTATION — WING FINISH

| HOUSING LENGTHS | |
|---|---|
| Number | Dimensions |
| 1 | 16 (.625) |
| 2 | 22 (.875) |
| 3 | 35 (1.375) |

**HOUSING & WING FINISH**
B = Black powder coated
C = Chrome plated

**CAM ROTATION**
(see illustration), page 129
**01** = Clockwise
**09** = Counter-cockwise

- **Order cams separately (Above)**

NEMA 4

**CM-1**



**CM-3**



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## FIXED CORE, SEALED LOCKS

- **Sealed to meet NEMA 4 water intrusion standards.**
- **Smooth operation with superior feel.**
- **Black or chrome housings.**
- **Shuttered lock core.**

NEMA 4

- **Cams sold separately. (See page 153)**

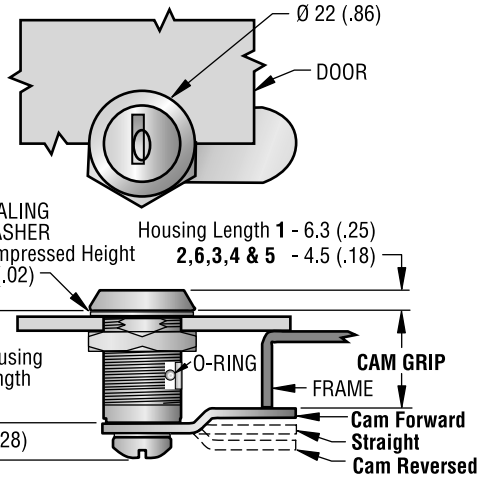
**CM-2**

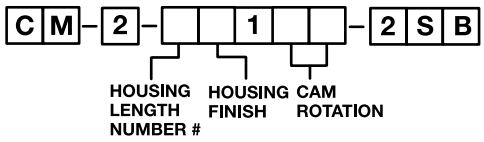
**Black Housing**



**Chrome Housing**

**NOTE: After determining grip, add or subtract cam offset (see page 153) from housing length to assure a tight fit.**




| HOUSING LENGTHS | |
|---|---|
| Number | Dimensions |
| 1 | 16 (.625) |
| 2 | 22 (.875) |
| 6 | 28.5 (1.125) |
| 3 | 35 (1.375) |
| 4 | 41 (1.625) |
| 5 | 48 (1.875) |

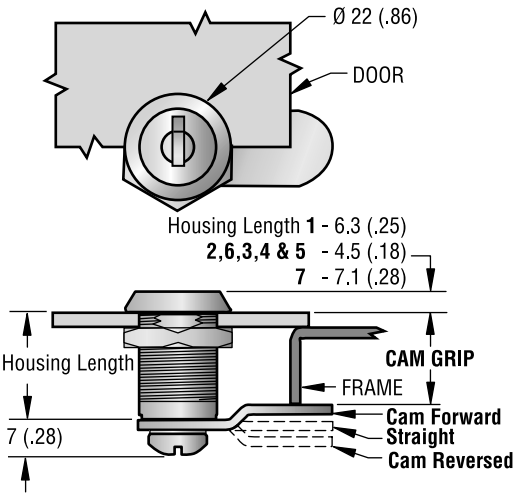
**HOUSING FINISH**
B = Black powder coated
C = Chrome plated

**CAM ROTATION**
(see facing page)
**01** = Clockwise
**09** = Counter-clockwise

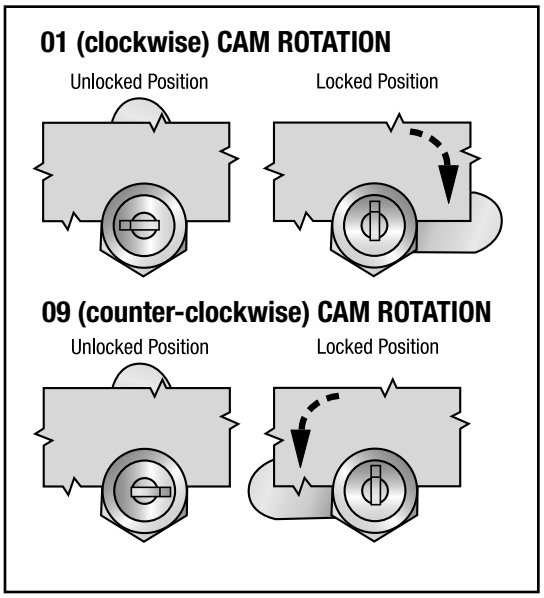
LOCK PLUG BODY and MOUNTING NUT: Die-cast zinc, bright chromate
HOUSING: Die-cast zinc, bright chromate and black power coated head or chrome plated head
SCREW with LOCKWASHER and STOP WASHER: Steel, zinc plate, bright chromate
O-RING: Nitrile, black
SEALING WASHER: Rubber, black
LOCKING SCALP: Stainless, steel, natural
SHUTTER: Brass, nickel plate
WAFERS: Brass, natural.
WAFER SPRINGS: Stainless steel, natural
SHUTTER SPRING: Steel alloy
KEYS: Brass, nickel plated (2 included)
LOCK: Key code CH751, keyed alike, key removal in locked and unlocked positions

**For detailed material specifications plus product installation instructions.**
**www.clancey.com**

- **Stainless steel cap on housing and lock core.**
- **Non-shuttered lock core.**
- **Economical solution.**




## CAM ROTATION – ALL MODELS




## FIXED CORE, NON-SEALED LOCKS

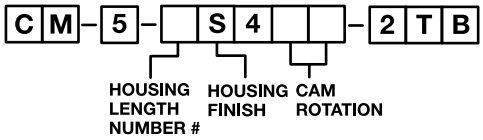
- **Cams sold separately (See page 153)**

**CM-5**



**NOTE: After determining grip, add or subtract cam offset (see page 153) from housing length to assure a tight fit.**

### Fixed Core (Non-Sealed) PART NUMBER




| HOUSING LENGTHS | |
|---|---|
| Number | Dimensions |
| 7 | 11 (.438) |
| 1 | 16 (.625) |
| 2 | 22 (.875) |
| 6 | 28.5 (1.125) |
| 3 | 35 (1.375) |
| 4 | 41 (1.625) |
| 5 | 48 (1.875) |

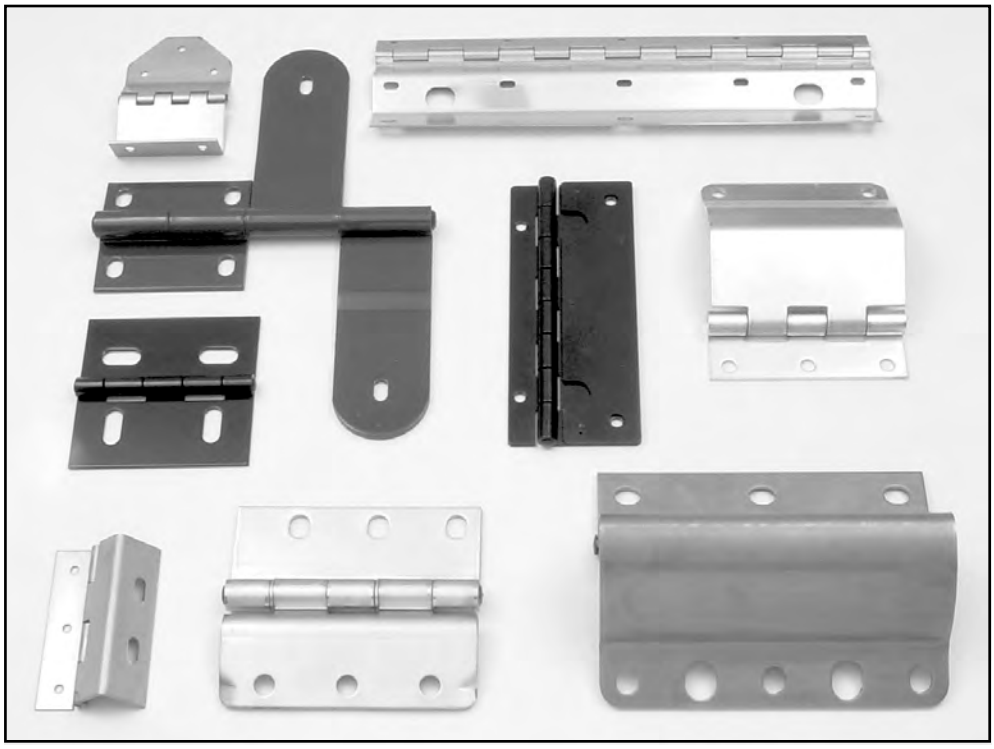
**CAM ROTATION**
(see left)
**01** = Clockwise
**09** = Counter-clockwise

### MATERIAL AND FINISH

LOCK PLUG BODY, HOUSING & MOUNTING NUT:
Die-cast zinc, bright chromate
TOOTHWASHER HEX NUT & SCREW with LOCKWASHER & STOP WASHER: Steel, zinc plate, bright chromate,
HOUSING & LOCKPLUG SCALPS: Stainless steel,
WAFERS: Brass, natural
WAFER SPRINGS: Stainless steel, natural
KEYS: Brass, nickel plated (2 included)
LOCK: Key code CH751, keyed alike, key removal in locked and unlocked positions

# HINGES
## CONTINUOUS & BUTT HINGE DESIGN INFO

### CUSTOM CONFIGURATIONS



| PIN DIAMETER RANGE | MATERIALS | LEAF THICKNESS RANGE |
|---|---|---|
| .062" to .500" | Cold Rolled Steel<br>Sheet Steel<br>Pre-Plated Steel<br>304 Stainless Steel<br>316 Stainless Steel<br>Aluminum<br>Brass | .025" to .250" |

**Let Us Help You**

We specialize in custom hinge designs.
We can offer virtually any combination of options to meet your application requirements.
Please call or e-mail our application specialists.

info@clancey.com
800-747-7405

- **Readily available standard offerings.**
- **Mill finish.**
- **Custom sizes, hole patterns and finishes available.**

## STEEL AND STAINLESS STEEL

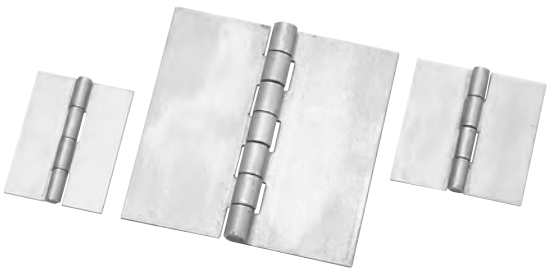
STAINLESS AVAILABLE

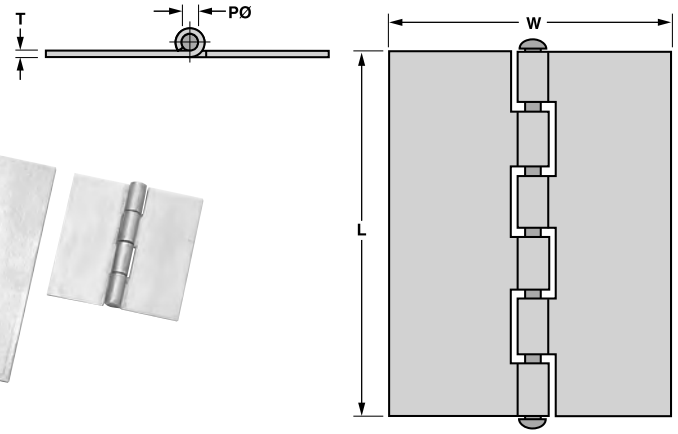
| STEEL BUTT HINGE PART NUMBERS | PRIMARY DIMENSIONS | | | | | 304 STAINLESS STEEL BUTT HINGE PART NUMBERS |
|---|---|---|---|---|---|---|
| | Open Width "W" | Length "L" | Leaf Thickness "T" | Pin Diameter "P" | Pin Retention | |
| BH-23-1010-10 | 1.00" | 1.00" | .035" | .91" | staked | BH-23-1010-15 |
| BH-23-1515-10 | 1.50" | 1.50" | .035" | .91" | staked | BH-23-1515-15 |
| BH-25-1515-10 | 1.50" | 1.50" | .050" | .125" | spun | BH-25-1515-15 |
| BH-26-2020-10 | 2.00" | 2.00" | .060" | .125" | spun | BH-26-2020-15• |
| BH-27-2020-10 | 2.00" | 2.00" | .075" | .187" | spun | BH-27-2020-15• |
| BH-29-2030-10 | 2.00" | 3.00" | .090" | .187" | spun | BH-29-2030-15• |
| BH-22-2030-10 | 2.00" | 3.00" | .120" | .250" | spun | BH-22-2030-15• |
| BH-27-2525-10 | 2.50" | 2.50" | .075" | .187" | spun | BH-27-2525-15 |
| BH-29-2525-10 | 2.50" | 2.50" | .090" | .187" | spun | BH-29-2525-15 |
| BH-22-2525-10 | 2.50" | 2.50" | .120" | .250" | spun | BH-22-2525-15 |
| BH-22-2530-10 | 2.50" | 3.00" | .120" | .250" | spun | BH-22-2530-15 |
| BH-27-3030-10 | 3.00" | 3.00" | .075" | .187" | spun | BH-27-3030-15 |
| BH-29-3030-10 | 3.00" | 3.00" | .090" | .187" | spun | BH-29-3030-15• |
| BH-22-3030-10 | 3.00" | 3.00" | .120" | .250" | spun | BH-22-3030-15• |
| BH-22-3040-10 | 3.00" | 4.00" | .120" | .250" | spun | BH-22-3040-15• |
| BH-29-3535-10 | 3.50" | 3.50" | .090" | .187" | spun | BH-29-3535-15 |
| BH-22-3535-10 | 3.50" | 3.50" | .120" | .250" | spun | BH-22-3535-15 |
| BH-27-4040-10 | 4.00" | 4.00" | .075" | .187" | spun | BH-27-4040-15 |
| BH-29-4040-10 | 4.00" | 4.00" | .090" | .187" | spun | BH-29-4040-15 |
| BH-22-4040-10 | 4.00" | 4.00" | .120" | .250" | spun | BH-22-4040-15• |
| BH-28-4040-10 | 4.00" | 4.00" | .180" | .375" | spun | BH-28-4040-15• |
| BH-28-4050-10 | 4.00" | 5.00" | .180" | .375" | spun | BH-28-4050-15 |
| BH-22-5050-10 | 5.00" | 5.00" | .120" | .250" | spun | BH-22-5050-15 |
| BH-28-5050-10 | 5.00" | 5.00" | .180" | .375" | spun | BH-28-5050-15 |
| BH-28-5060-10 | 5.00" | 6.00" | .180" | .375" | spun | BH-28-5060-15 |
| BH-22-6060-10 | 6.00" | 6.00" | .120" | .250" | spun | BH-22-6060-15 |
| BH-28-6060-10 | 6.00" | 6.00" | .180" | .375" | spun | BH-28-6060-15 |

STEEL

304 STAINLESS STEEL

• available in 316 Stainless Steel





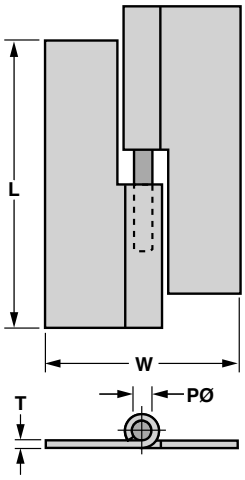
CAD POWERED

## LIFT-OFF, BUTT HINGES

- Used in applications where the door needs to be lifted off.
- Left and right hand versions available.

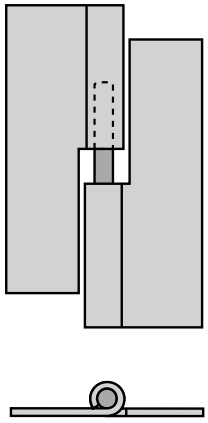
STAINLESS AVAILABLE

| LEFT HAND CONFIGURATION | | | | PRIMARY DIMENSIONS | | | | RIGHT HAND CONFIGURATION | | |
|---|---|---|---|---|---|---|---|---|---|---|
| STAINLESS STEEL | STAINLESS STEEL LIFT OFF HINGE PART NUMBERS | STEEL | STEEL LIFT OFF HINGE PART NUMBERS | Open Width "W" | Overall Length "L" | Leaf Thickness "T" | Pin Diameter "P" | STEEL LIFT OFF HINGE PART NUMBERS | STEEL | STAINLESS STEEL LIFT OFF HINGE PART NUMBERS | STAINLESS |
| | LH-25-1015-15 | | LH-25-1015-10 | 1.00" | 1.50" | .050" | .120" | RH-25-1015-10 | | RH-25-1015-15 | |
| | LH-26-1520-15 | | LH-26-1520-10 | 1.50" | 2.00" | .060" | .125" | RH-26-1520-10 | | RH-26-1520-15 | |
| | LH-27-1520-15 | | LH-27-1520-10 | 1.50" | 2.00" | .075" | .187" | RH-27-1520-10 | | RH-27-1520-15 | |
| | LH-27-2020-15 | | LH-27-2020-10 | 2.00" | 2.00" | .075" | .187" | RH-27-2020-10 | | RH-27-2020-15 | |
| | LH-27-2030-15 | | LH-27-2030-10 | 2.00" | 3.00" | .075" | .187" | RH-27-2030-10 | | RH-27-2030-15 | |
| | LH-29-2030-15 | | LH-29-2030-10 | 2.00" | 3.00" | .090" | .187" | RH-29-2030-10 | | RH-29-2030-15 | |
| | LH-29-2525-15 | | LH-29-2525-10 | 2.50" | 2.50" | .090" | .187" | RH-29-2525-10 | | RH-29-2525-15 | |
| | LH-29-3030-15 | | LH-29-3030-10 | 3.00" | 3.00" | .090" | .250" | RH-29-3030-10 | | RH-29-3030-15 | |
| | LH-26-3040-15 | | LH-26-3040-10 | 3.00" | 4.00" | .060" | .125" | RH-26-3040-10 | | RH-26-3040-15 | |
| | LH-27-3040-15 | | LH-27-3040-10 | 3.00" | 4.00" | .075" | .187" | RH-27-3040-10 | | RH-27-3040-15 | |
| | LH-22-3040-15 | | LH-22-3040-10 | 3.00" | 4.00" | .120" | .250" | RH-22-3040-10 | | RH-22-3040-15 | |
| | LH-22-4040-15 | | LH-22-4040-10 | 4.00" | 4.00" | .120" | .250" | RH-22-4040-10 | | RH-22-4040-15 | |



Left hand version


Right hand version pictured


Right hand version

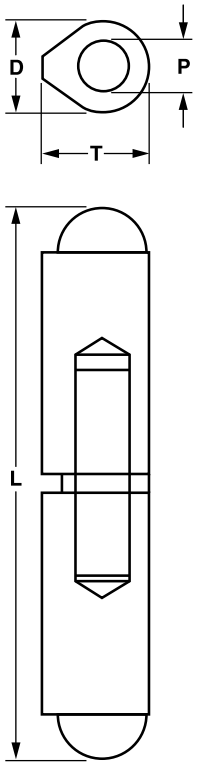
## Clancey is your custom hinge solution provider

**Our application specialists have the resources you need to take your project from prototype through production. We will provide design assistance, samples, drawings to deliver a hinge that meets your application criteria and your budget.**

- **Hinge can be mounted so the door can be lifted off, or reversed for permanent installation.**
- **Sleek design.**

## WELD-ON "BULLET" HINGE – STEEL BODY

| | PART NUMBER | PRIMARY DIMENSIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | LENGTH "L" | | THICKNESS "T" | | HINGE DIAMETER "D" | | PIN DIAMETER "P" | |
| STEEL BODY WITH STEEL PIN | | FIXED STEEL PIN - BRASS WASHER | | | | | | | |
| | 7010.PS.040 | 40mm | 1.57" | 9.5mm | .37" | 8mm | .31" | 5mm | .20" |
| | 7010.PS.060 | 60mm | 2.36" | 12mm | .47" | 10mm | .39" | 6mm | .24" |
| | 7010.PS.080 | 80mm | 3.15" | 15.5mm | .61" | 13mm | .51" | 8mm | .31" |
| | 7010.PS.100 | 100mm | 3.94" | 20mm | .79" | 16mm | .63" | 10mm | .39" |
| | 7010.PS.120 | 120mm | 4.73" | 20mm | .79" | 16mm | .63" | 11mm | .43" |
| | 7010.PS.135 | 135mm | 5.32" | 22mm | .87" | 18mm | .71" | 12mm | .47" |
| | 7010.PS.150 | 150mm | 5.91" | 25mm | .98" | 20mm | .79" | 13mm | .51" |
| | 7010.PS.180 | 180mm | 7.09" | 25mm | .98" | 20mm | .79" | 14mm | .55" |
| | 7010.PS.200 | 200mm | 7.87" | 28.5mm | 1.12" | 23mm | .91" | 16mm | .63" |
| | REMOVABLE STEEL PIN - BRASS WASHER | | | | | | | | |
| | 7012.PS.080 | 80mm | 3.15" | 15.5mm | .61" | 13mm | .51" | 8mm | .31" |
| | 7012.PS.100 | 100mm | 3.94" | 20mm | .79" | 16mm | .63" | 10mm | .39" |
| | GREASE FITTING, FIXED STEEL PIN - BRASS WASHER | | | | | | | | |
| | 7004.PS.080 | 80mm | 3.15" | 15.5mm | .61" | 13mm | .51" | 8mm | .31" |
| | 7004.PS.100 | 100mm | 3.94" | 20mm | .79" | 16mm | .63" | 10mm | .39" |
| | 7004.PS.120 | 120mm | 4.73" | 20mm | .79" | 16mm | .63" | 11mm | .43" |
| | 7004.PS.135 | 135mm | 5.32" | 22mm | .87" | 18mm | .71" | 12mm | .47" |
| | 7004.PS.150 | 150mm | 5.91" | 25mm | .98" | 20mm | .79" | 13mm | .51" |
| | 7004.PS.180 | 180mm | 7.09" | 25mm | .98" | 20mm | .79" | 14mm | .55" |
| | 7004.PS.200 | 200mm | 7.87" | 28.5mm | 1.12" | 23mm | .91" | 16mm | .63" |




**FIXED PIN CONFIGURATION**

| | PART NUMBER | PRIMARY DIMENSIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | LENGTH "L" | | THICKNESS "T" | | HINGE DIAMETER "D" | | PIN DIAMETER "P" | |
| STEEL BODY WITH BRASS PIN | | FIXED BRASS PIN - BRASS WASHER | | | | | | | |
| | 7011.PS.040 | 40mm | 1.57" | 9.5mm | .37" | 8mm | .31" | 5mm | .20" |
| | 7011.PS.050 | 50mm | 1.97" | 9.5mm | .37" | 8mm | .31" | 5mm | .20" |
| | 7011.PS.060 | 60mm | 2.36" | 12mm | .47" | 10mm | .39" | 6mm | .24" |
| | 7011.PS.070 | 70mm | 2.76" | 13.5mm | .53" | 11.5mm | .45" | 7mm | .28" |
| | 7011.PS.080 | 80mm | 3.15" | 15.5mm | .61" | 13mm | .51" | 8mm | .31" |
| | 7011.PS.100 | 100mm | 3.94" | 20mm | .79" | 16mm | .63" | 10mm | .39" |
| | 7011.PS.120 | 120mm | 4.73" | 20mm | .79" | 16mm | .63" | 11mm | .43" |
| | 7011.PS.135 | 135mm | 5.32" | 22mm | .87" | 18mm | .71" | 12mm | .47" |
| | 7011.PS.150 | 150mm | 5.91" | 25mm | .98" | 20mm | .79" | 13mm | .51" |
| | 7011.PS.180 | 180mm | 7.09" | 25mm | .98" | 20mm | .79" | 14mm | .55" |
| | 7011.PS.200 | 200mm | 7.87" | 28.5mm | 1.12" | 23mm | .91" | 16mm | .63" |
| | REMOVABLE BRASS PIN - BRASS WASHER | | | | | | | | |
| | 7013.PS.080 | 80mm | 3.15" | 15.5mm | .61" | 13mm | .51" | 8mm | .31" |
| | 7013.PS.100 | 100mm | 3.94" | 20mm | .79" | 16mm | .63" | 10mm | .39" |
| | GREASE FITTING, FIXED BRASS PIN - BRASS WASHER | | | | | | | | |
| | 7005.PS.080 | 80mm | 3.15" | 15.5mm | .61" | 13mm | .51" | 8mm | .31" |
| | 7005.PS.100 | 100mm | 3.94" | 20mm | .79" | 16mm | .63" | 10mm | .39" |



**Try this part in your application Please call for samples.**

**800-747-7405**

CAD POWERED

## WELD-ON "BULLET" HINGE
## STAINLESS STEEL OR ALUMINUM BODY

- **Optional grease fitting for lubrication.**
- **Easy weld-on installation.**

STAINLESS AVAILABLE

ALUMINUM AVAILABLE

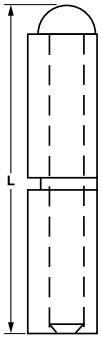


**Other sizes are available.**
**www.clancey.com**

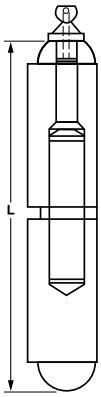
**Try this part in your application Please call for samples.**
**800-747-7405**

| | PART NUMBER | PRIMARY DIMENSIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | LENGTH "L" | | THICKNESS "T" | | HINGE DIAMETER "D" | | PIN DIAMETER "P" | |
| STAINLESS STEEL BODY | 304 STAINLESS STEEL BODY - ROUNDED HEAD. FIXED STAINLESS STEEL PIN, STAINLESS STEEL WASHER | | | | | | | | |
| | 7010.SS.060 | 60mm | 2.36" | 12mm | .47" | 10mm | .39" | 6mm | .24" |
| | 7010.SS.080 | 80mm | 3.15" | 15.5mm | .61" | 13mm | .51" | 8mm | .31" |
| | 7010.SS.100 | 100mm | 3.94" | 20mm | .79" | 16mm | .63" | 10mm | .39" |
| | 7010.SS.120 | 120mm | 4.73" | 20mm | .79" | 16mm | .63" | 11mm | .43" |
| | 7010.SS.150 | 150mm | 5.91" | 25mm | .98" | 20mm | .79" | 13mm | .51" |
| | 7010.SS.180 | 180mm | 7.09" | 25mm | .98" | 20mm | .79" | 14mm | .55" |
| | 316 STAINLESS STEEL BODY - FLAT HEAD. FIXED STAINLESS STEEL PIN, STAINLESS STEEL WASHER | | | | | | | | |
| | 7015.SS.080 | 80mm | 3.15" | 15.5mm | .61" | 13mm | .51" | 8mm | .31" |
| | 7015.SS.100 | 100mm | 3.94" | 20mm | .79" | 16mm | .63" | 10mm | .39" |
| | 7015.SS.120 | 120mm | 4.73" | 20mm | .79" | 16mm | .63" | 11mm | .43" |

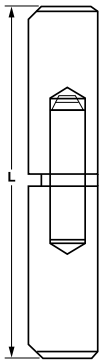
| | PART NUMBER | PRIMARY DIMENSIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | LENGTH "L" | | THICKNESS "T" | | HINGE DIAMETER "D" | | PIN DIAMETER "P" | |
| ALUMINUM BODY | ALUMINUM BODY FIXED STAINLESS STEEL PIN, STAINLESS STEEL WASHER | | | | | | | | |
| | 7010.AL.060 | 60mm | 2.36" | 12mm | .47" | 10mm | .39" | 6mm | .24" |
| | 7010.AL.080 | 80mm | 3.15" | 15.5mm | .61" | 13mm | .51" | 8mm | .31" |
| | 7010.AL.100 | 100mm | 3.94" | 20mm | .79" | 16mm | .63" | 10mm | .39" |
| | 7010.AL.120 | 120mm | 4.73" | 20mm | .79" | 16mm | .63" | 11mm | .43" |
| | 7010.AL.150 | 150mm | 5.91" | 25mm | .98" | 20mm | .79" | 13mm | .51" |
| | 7010.AL.180 | 180mm | 7.09" | 25mm | .98" | 20mm | .79" | 14mm | .55" |
| | ALUMINUM BODY - GREASE FITTING FIXED STAINLESS STEEL PIN, STAINLESS STEEL WASHER | | | | | | | | |
| | 7004.AL.080 | 80mm | 3.15" | 15.5mm | .61" | 13mm | .51" | 8mm | .31" |
| | 7004.AL.100 | 100mm | 3.94" | 20mm | .79" | 16mm | .63" | 10mm | .39" |
| | 7004.AL.100 | 120mm | 4.73" | 20mm | .79" | 16mm | .63" | 11mm | .43" |
| | 7004.AL.150 | 150mm | 5.91" | 25mm | .98" | 20mm | .79" | 13mm | .51" |




**REMOVABLE PIN CONFIGURATION**




**GREASE FITTING CONFIGURATION**

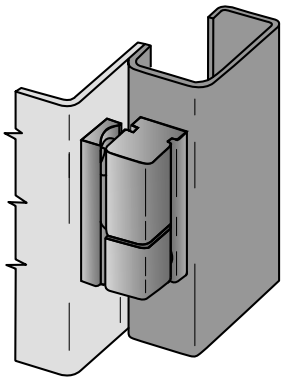


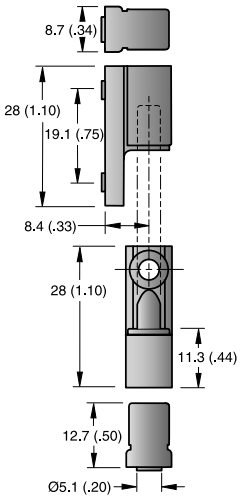

**FLAT HEAD 316 STAINLESS CONFIGURATION**

- **Allows door to be removed at hinge side.**
- **Hinges can be reversed for permanent installation.**
- **Mounting hardware is concealed.**

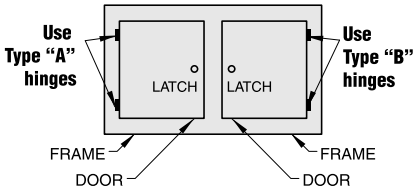
## DIE CAST LIFT OFF HINGES MINIATURE SIZE

### IN-LINE VERSION



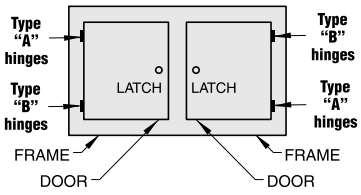



### Lift-off Installation

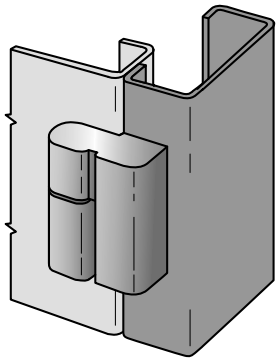



### Permanent Installation

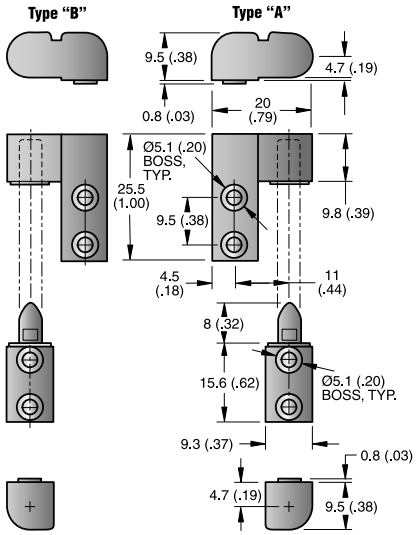
Use one of each type per side.




### OFFSET VERSION



Offset "A" illustrated




## INLINE HINGE

NSF

- **In-line hinges can be used interchangeably on doors hinged on either side.**

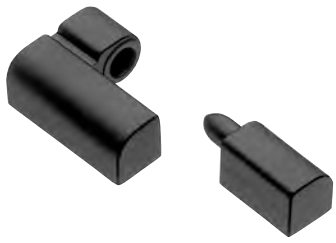
| Use screw size | PART NUMBER |
|---|---|
| 6-32 | **96-110** |
| M4 x 0.7 | **96-140** |

**For detailed material specifications plus product installation instructions.**
**www.clancey.com**

## OFFSET HINGE

NSF

- **Offset hinges must be ordered as type "A" or type "B" assemblies.**



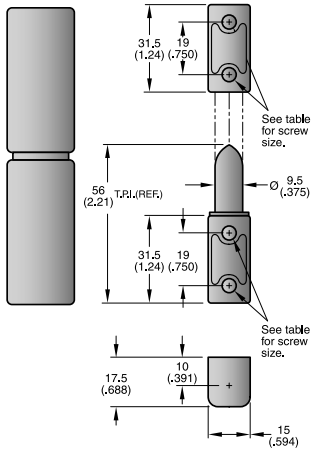
Offset "B" pictured

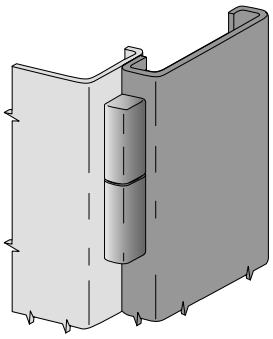
| Use screw size | PART NUMBER | |
|---|---|---|
| | Type "A" | Type "B" |
| 6-32 | **96-111** | **96-112** |
| M4 x 0.7 | **96-141** | **96-142** |

## DIE-CAST LIFT-OFF HINGES LARGE SIZE

### INLINE HINGE

- **In-line hinges can be used interchangeably on doors hinged on either side.**
- **Also available in bright chrome.**



**Offset Version**

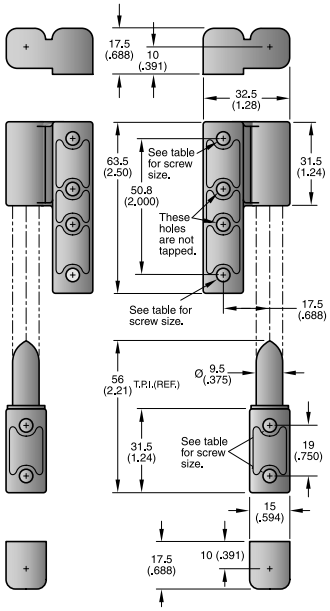
| Use screw size | PART NUMBER |
|---|---|
| M5 | 96-50-500-50 |
| No. 10-32 | 96-10-500-50 |

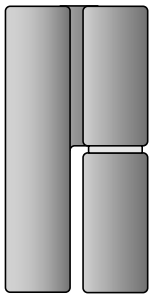
**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

### OFFSET HINGE

- **Offset hinges must be ordered as type "A" or type "B" assemblies. "(See diagram - page 167)"**

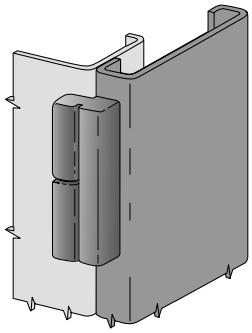


**Offset Version**



Offset "A" pictured



Offset "B" illustrated

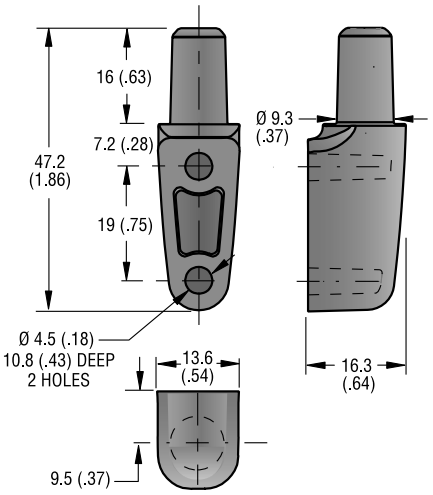
| Use screw sizes | PART NUMBERS | |
|---|---|---|
| | Type "A" | Type "B" |
| M5 | 96-50-510-50 | 96-50-520-50 |
| No. 10-32 | 96-10-510-50 | 96-10-520-50 |

- **Allows door to be removed at hinge side.**
- **Ergonomic design.**
- **Non-conducting, corrosion resistant materials.**

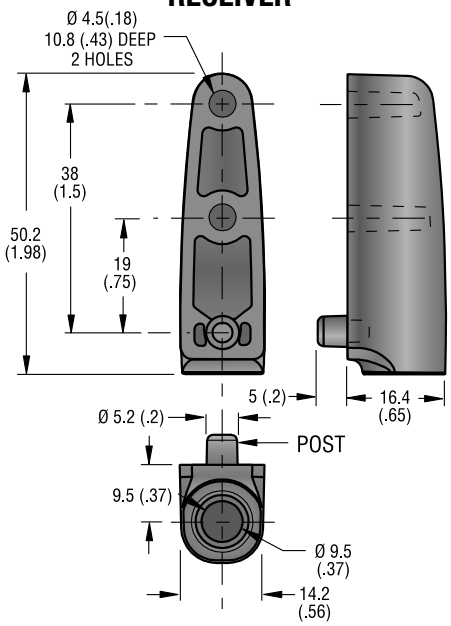
## NYLON LIFT-OFF HINGES MEDIUM SIZE IN-LINE

NSF

### PIN




### RECEIVER

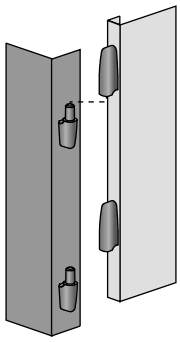




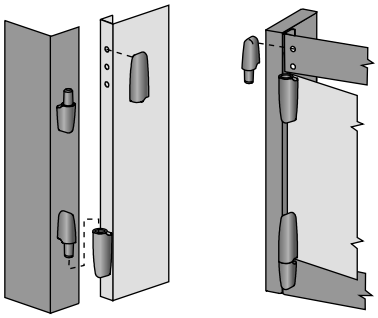

| Hinge Element | PART NUMBER |
|---|---|
| Receiver | 96-720 |
| Pin | 96-710 |

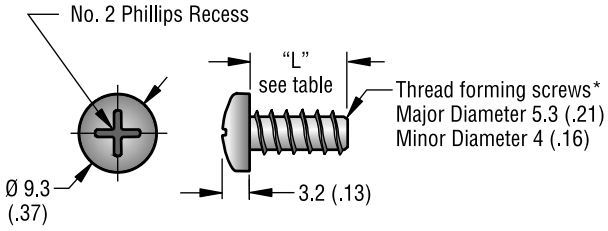
**Note:** Order (1) pin, (1) receiver, and (4) screws from table below.

### LIFT-OFF INSTALLATION



### PERMANENT INSTALLATION






| Mounting Screws | | |
|---|---|---|
| "L" Screw Legnth | Panel Thickness | PART NUMBER |
| 11.4 (.45) | 1 - 4 (.04 - .16) | 96-79-1 |
| 14.4 (.57) | 4 - 7 (.16 - .28) | 96-79-2 |
| 17.4 (6.9) | 7 - 10 (.28 - .39) | 96-79-3 |
| 20.4 (.80) | 10 - 13 (.39 - .51) | 96-79-4 |

- **Contact us for thicker panel requirements.**

**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

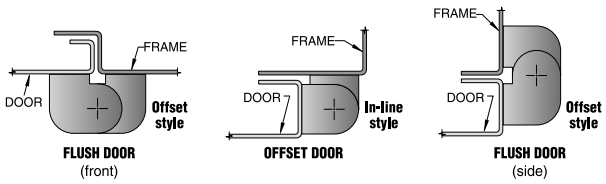
NSF

## NYLON LIFT-OFF HINGES MEDIUM AND LARGE SIZE

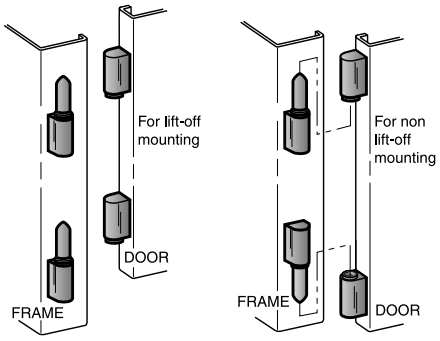


Offset “B” pictured

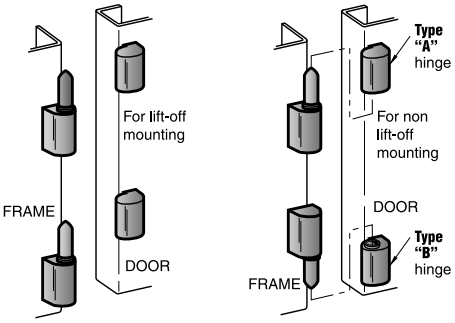
### MOUNTING VARIATIONS




### IN-LINE KNUCKLE STYLE

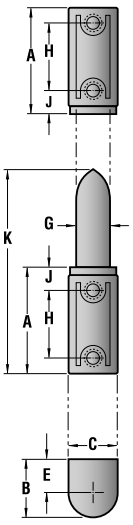



### OFFSET KNUCKLE STYLE

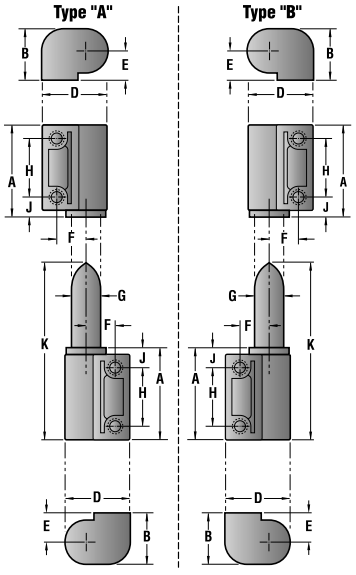



| DIMENSIONS | | | | | | | | | PART NUMBERS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Screw thread size | A | B | C | D | E, F & G | H | J | K | In-Line Knuckle Style | Offset Knuckle Style | |
| | | | | | | | | | | Type “A” | Type “B” |
| **300 Series** | | | | | | | | | | | |
| M5 | 31 (1.22) | 16.7 (.66) | 14.3 (.56) | 21.5 (.84) | 9.5 (.38) | 19 (.75) | 7 (.28) | 58 (2.28) | See page 169 | 96-50-310-11 | 96-50-320-11 |
| 10-24 | | | | | | | | | | 96-10-310-11 | 96-10-320-11 |
| **400 Series** | | | | | | | | | | | |
| M6 | 41.3 (1.63) | 22.2 (.88) | 19 (.75) | 28.5 (1.13) | 12.7 (.50) | 25.5 (1.00) | 9.5 (.38) | 78 (3.06) | 96-50-400-11 | 96-50-410-11 | 96-50-420-11 |
| 1/4-20 | | | | | | | | | 96-10-400-11 | 96-10-410-11 | 96-10-420-11 |

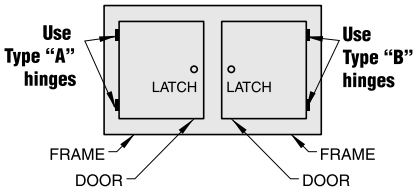
### IN-LINE KNUCKLE STYLE




### OFFSET KNUCKLE STYLE

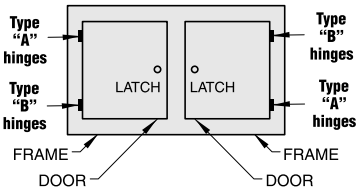



### Lift-off Installation




### Permanent Installation

Use one of each type per side.



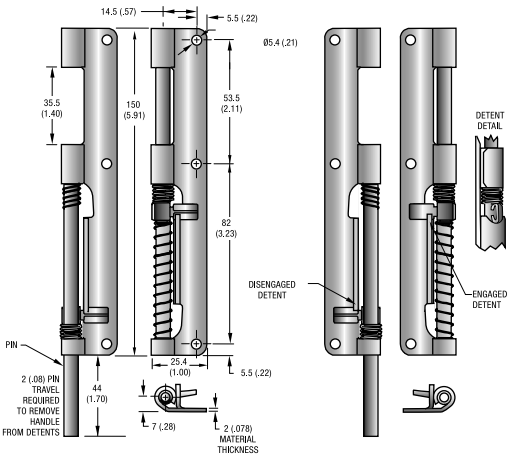
## SINGLE PIN CONCEALED, REMOVABLE HINGE



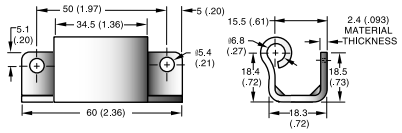

- High strength.
- Durable.
- Resists vibration.
- Door and frame leaves can be installed independently.

**Door Leaf Type "A"**
**F6-941-5**

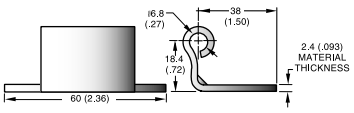
**Door Leaf Type "B"**
**F6-942-5**




**Formed Frame Leaf**
**F6-905-5**




**Flat Frame Leaf**
**F6-904-5**



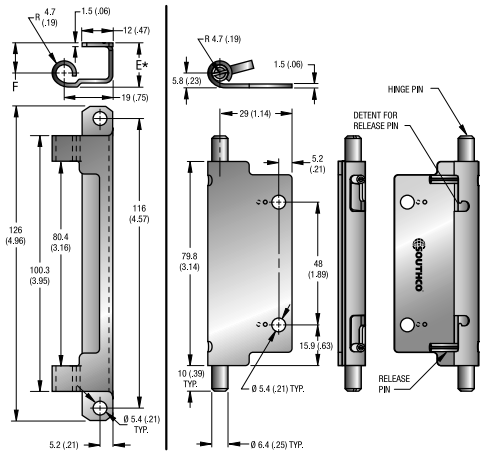

**Material:** 300 Series stainless steel, natural

**Note:** Order (1) door leaf and (1) frame leaf to complete a hinge assembly.

## DOUBLE PIN CONCEALED, REMOVABLE HINGE




- Mounts inside the frame of formed doors.
- Allows door to be removed from the hinge side.
- Three sizes to fit most standard door configurations.




| PART NUMBER | | FRAME LEAF DIMENSIONS | |
|---|---|---|---|
| | | E* | F |
| F6-1 | F6-1-1 | 17 (.67") | 11.8 (.47") |
| F6-2 | F6-2-1 | 20 (.79") | 14.8 (.58") |
| F6-3 | F6-3-1 | 23.4 (.92") | 18.2 (.72") |

**Note:** Part number denotes complete assembly polybagged. Bulk packaging is available.

**Material:**

**STEEL VERSION:**

**Frame Leaf and Door Leaf:**
1010 steel, zinc plate plus yellow chromate dip.

**Hinge Pins:**
12L14 steel, zinc plate plus yellow chromate dip and clear organic coating.

**Release Pins:**
420 stainless steel, passivated.

**Internal Spring:**
302 stainless steel, passivated.

**STAINLESS STEEL VERSION**

**Frame Leaf and Door Leaf:**
304 stainless steel, passivated.

**Hinge Pins:**
303 stainless steel, passivated plus clear organic coating.

**Release Pins:**
420 stainless steel, passivated.

**Internal Spring:**
302 stainless steel, passivated.

For detailed material specifications plus product installation instructions.

www.clancey.com

# HINGES
## CONCEALED

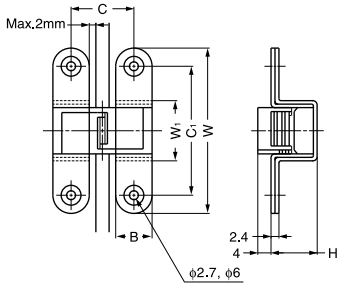
CAD POWERED

## LIGHT DUTY

- 180° opening angle.
- 5.5 lbs. Per pair load rating.

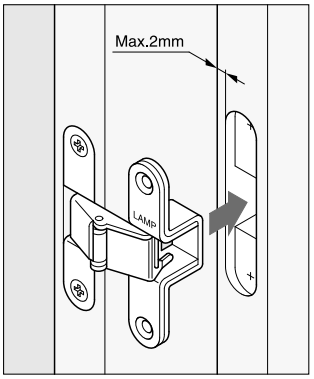
STAINLESS






**Material:** 304 Stainless Steel.
**Finish:** Satin.
**Notes:** Distance between door edge and hinge must be less than 2 mm. Minimum door thickness 15 mm.

**Installation**




| PART NUMBER | W | B | C | C1 | H | W1 |
|---|---|---|---|---|---|---|
| RK-50 | 50 (1.97") | 11 (.43") | 19 (.75") | 38 (1.50") | 14 (.55") | 18.2 (.72") |

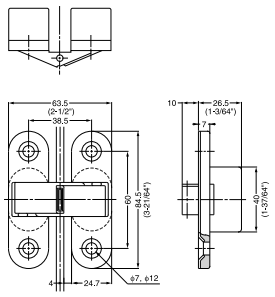
## MEDIUM DUTY

- 180° opening angle.
- 66 lbs. Per pair load rating.

STAINLESS

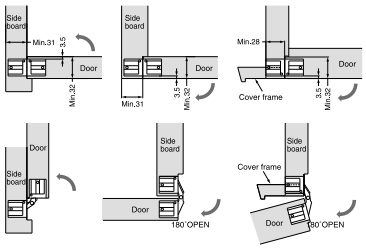


PART NUMBER
I-66




**Material:** Plate and Arm - 304 Stainless Steel.
Body - Polymide.
**Finish:** Plate and arm - Satin.
Body - white.
**Notes:** Distance between door edge and hinge must be less than 4 mm.

**Installation**



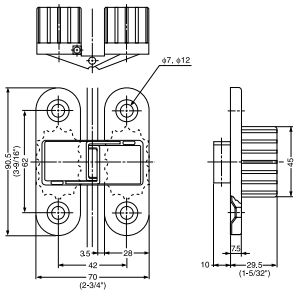

## HEAVY DUTY

- 180° opening angle.
- 88 lbs. Per pair load rating.

STAINLESS



PART NUMBER
I-90

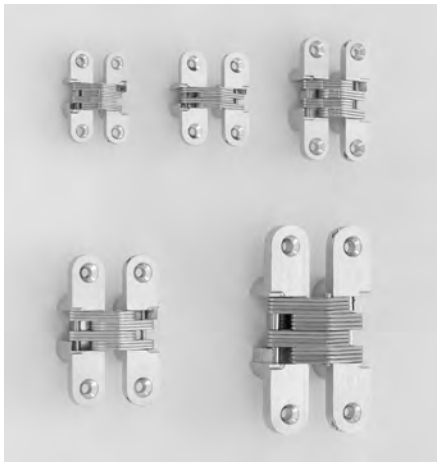



**Material:** Plate and Arm - 304 Stainless Steel.
Body - Polymide.
**Finish:** Plate and arm - Satin.
Body - Brown.
**Notes:** Distance between door edge and hinge must be less than 3.5 mm.

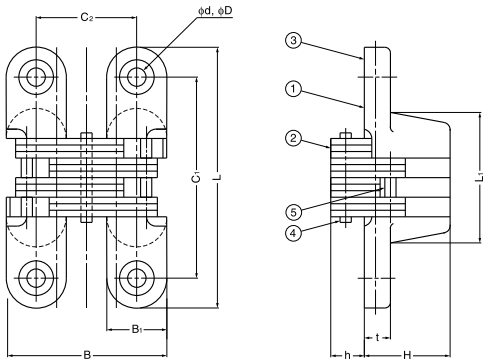
## MULTI-LINK CONCEALED HINGE

- 180° opening angle.
- 5 sizes.

| PART NUMBER | PRIMARY DIMENSIONS | | | | | | | | MOUNTING DIMENSIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | L | L1 | B | B1 | H | h | t | C | C1 | C2 | D | d |
| R-43 | 43 (1.69") | 22 (.87") | 29 (1.14") | 11 (.43") | 13 (.51") | 5 (.20") | 5 (.20") | 0.8 (.03") | 32 (1.26") | 18 (.71") | 6.2 (.24") | 3.5 (.14") |
| R-45 | 45 (1.77") | 19 (.75") | 35.7 (1.41") | 13 (.51") | 18.5 (.73") | 6 (.24") | 5 (.20") | 0.8 (.03") | 32 (1.26") | 22.7 (.89") | 7 (.28") | 3.5 (.14") |
| R-60 | 60 (2.36") | 33 (1.30") | 35.2 (1.39") | 13 (.51") | 18.5 (.73") | 6.5 (.26") | 6.5 (.26") | 1 (.04") | 47 (1.85") | 22.2 (.87") | 8.3 (.33) | 4.3 (.17") |
| R-70 | 70 (2.76") | 35 (1.38") | 42.6 (1.68") | 16.1 (.63") | 23 (.91") | 9 (.35") | 7 (.28") | 1.2 (.05") | 53 (2.09") | 26.6 (1.05") | 9.1 (.36") | 4.6 (.18") |
| R-100 | 100 (3.94") | 52 (2.05") | 53.2 (2.09") | 20 (.79") | 27.5 (1.08") | 9.5 (.37") | 9.5 (.37") | 1.8 (.07") | 80 (3.15") | 33.2 (1.31") | 10 (.39") | 5.3 (.21") |
| RS-212 | 95.3 (3.75") | 52.4 (2.13") | 51.6 (2.03") | 19.1 (.75") | 27.4 (1.08") | 9.1 (.36") | 9.5 (.37") | 1 (.04") | 75.5 (2.97") | 32.5 (1.28") | 10 (.39") | 5.6 (.22") |
| RS-216 | 117.5 (4.63") | 65.9 (2.59") | 69.1 (2.72") | 25.4 (1.00") | 37.2 (1.46") | 14.5 (.57") | 11.9 (.47") | 2 (.08") | 92 (3.62") | 43.7 (1.72") | 12.5 (.49") | 7 (.28") |

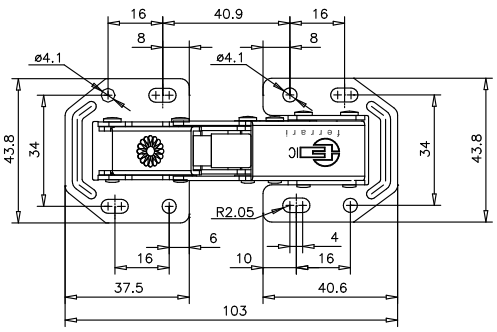


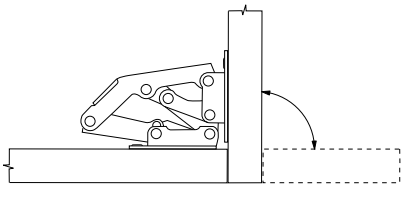
| PART NUMBER | MAXIMUM DOOR EDGE DISTANCE "X" | MINIMUM DOOR THICKNESS | MATERIALS / FINISH | | |
|---|---|---|---|---|---|
| | | | BODY | LINKS | PINS |
| R-43 | 2.3 (.09") | 13 (.51") | Zinc Alloy / Satin Chrome | 304 Stainless / Plain | 303 Stainless / Plain |
| R-45 | 3 (.12") | 19 (.75") | Zinc Alloy / Satin Chrome | 304 Stainless / Plain | 303 Stainless / Plain |
| R-60 | 3 (.12") | 19 (.75") | Zinc Alloy / Satin Chrome | 304 Stainless / Plain | 303 Stainless / Plain |
| R-70 | 3.5 (.14") | 25 (.98") | Zinc Alloy / Satin Chrome | 304 Stainless / Plain | 303 Stainless / Plain |
| R-100 | 4.8 (.19") | 29 (1.14") | Zinc Alloy / Satin Chrome | 304 Stainless / Plain | Steel / Plain |
| RS-212 | 5.5 (.22") | 29 (1.14") | Zinc Alloy / Yellow Zinc Dichromate | Steel / Yellow Zinc Dichromate | Steel / Yellow Zinc Dichromate |
| RS-216 | 6.5 (.26") | 35 (1.38") | Zinc Alloy / Yellow Zinc Dichromate | Steel / Yellow Zinc Dichromate | Steel / Yellow Zinc Dichromate |




## 90° CONCEALED HINGE

- 5° Inward bias for secure closure.
- Economical.
- For doors 3/4" thickness or less.





**Try this part in your application Please call for samples.**

**800-747-7405**

| PART NUMBER |
|---|
| ES01/G |

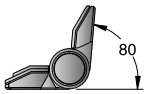
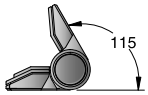
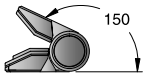
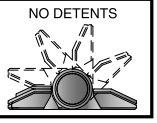
CAD POWERED

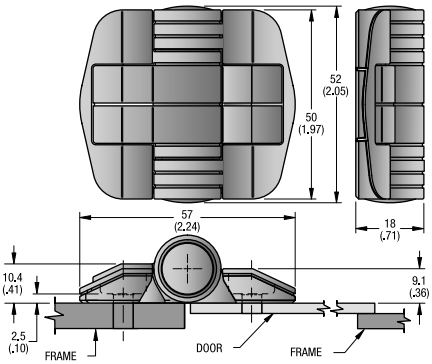
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## DOOR-POSITIONING HINGE

- Holds doors open without secondary mechanical support.
- 3 positioning torques hold doors at 80°, 115° or 150°.
- Free-swinging style available.



| PART NUMBERS | | POSITIONING TORQUE N•m (in. lbs.) | DETENTED OPEN ANGLE |
|---|---|---|---|
| Stainless Steel Detent tube | Hardened steel Detent tube | | |
| C6-21 | C6-1 | 0.7 (6) |   |
| C6-22 | C6-2 | 1.1 (10) | |
| C6-23 | C6-3 | 1.7 (15) | |
| C6-24 | C6-4 | 0.7 (6) |   |
| C6-25 | C6-5 | 1.1 (10) | |
| C6-26 | C6-6 | 1.7 (15) | |
| C6-27 | C6-7 | 0.7 (6) |   |
| C6-28 | C6-8 | 1.1 (10) | |
| C6-29 | C6-9 | 1.7 (15) | |
| C6-20 | C6-0 | —— |   |

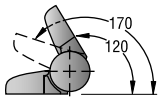
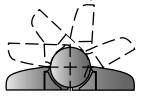


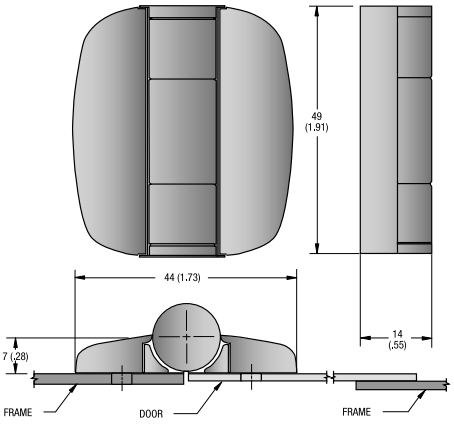

NSF

## POSITIONING-ADVANTAGE HINGE

- Holds doors open without secondary mechanical support.
- Detent holds door closed, and open at 120° and 170°.
- Free-swinging style available.



| PART NUMBERS | DETENTED OPEN ANGLE |
|---|---|
| G6-5-1 |   |
| G6-0-1 |   |



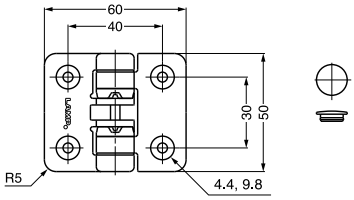

For detailed material specifications plus product installation instructions.

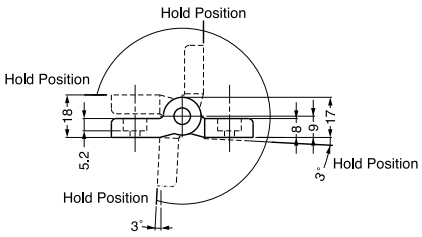
www.clancey.com

## COMPOSITE DETENT HINGE

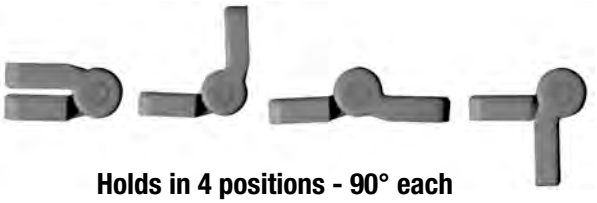
- Holds in 90° position incriments.
- Non-corrosive w/ stainless steel pin.
- Caps hide mounting hardware.

NON-CORROSIVE



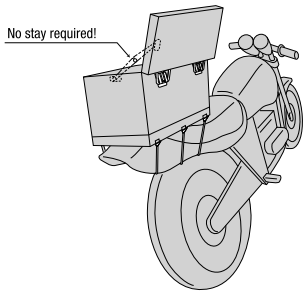





Holds in 4 positions - 90° each

| PART NUMBER | Color |
|---|---|
| YJ-50B | Black |
| YJ-50W | White |



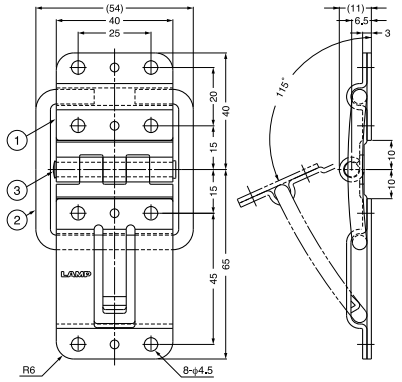

## STAINLESS STEEL DETENT HINGE

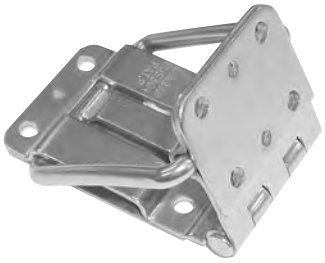
- Polished stainless steel.
- Eliminate heed for door props.
- Easy to use and install.

STAINLESS



| PART NUMBER |
|---|
| YC-105 |



CAD POWERED

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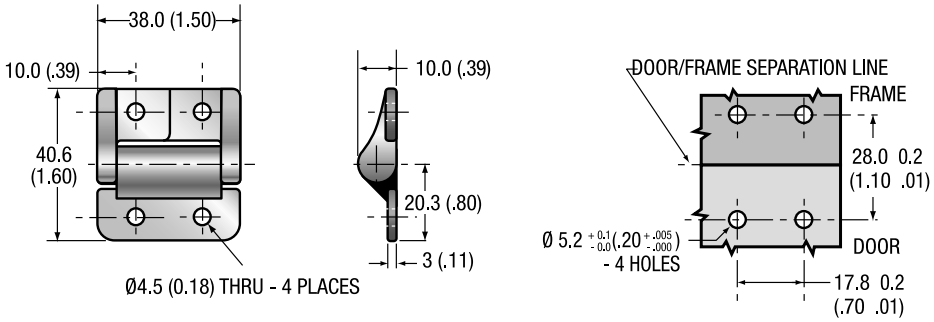
## CONSTANT TORQUE FRICTION HINGES

- **Holds doors or objects in position with a constant force.**
- **Eliminates extra components.**
- **Smooth consistent operation for over 20,000 cycles.**
- **Black powdercoat, or paintable natural finish.**

## SMALL SIZE

- **2 standard holding forces**






**Designed to mount with M4 or No. 8 screws or equivalent size rivet.**

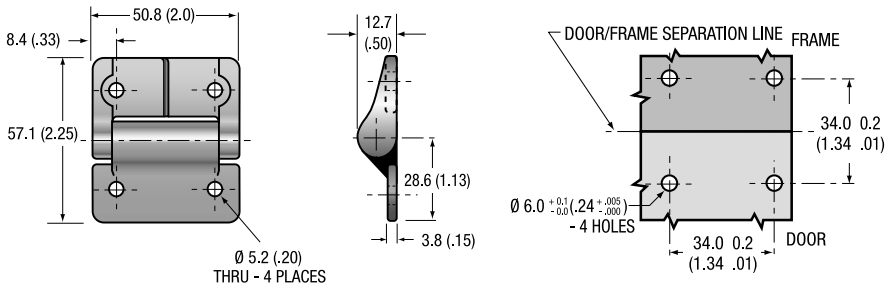
| Prevailing Torque | PART NUMBER | Finish |
|---|---|---|
| 8 in-lbs. | E6-10-208-50 | Black |
| | E6-10-208-33 | Natural |

| Prevailing Torque | PART NUMBER | Finish |
|---|---|---|
| 16 in-lbs. | E6-10-216-50 | Black |
| | E6-10-216-33 | Natural |

## LARGE SIZE

- **3 standard holding forces**






**Designed to mount with M5 or No. 10 screws or equivalent size rivet.**

| Prevailing Torque | PART NUMBER | Finish |
|---|---|---|
| 16 in-lbs. | E6-10-416-50 | Black |
| | E6-10-416-33 | Natural |
| 20 in-lbs. | E6-10-420-50 | Black |
| | E6-10-420-53 | Natural |
| 30 in-lbs. | E6-10-430-50 | Black |
| | E6-10-430-53 | Natural |

**For detailed material specifications plus product installation instructions.**

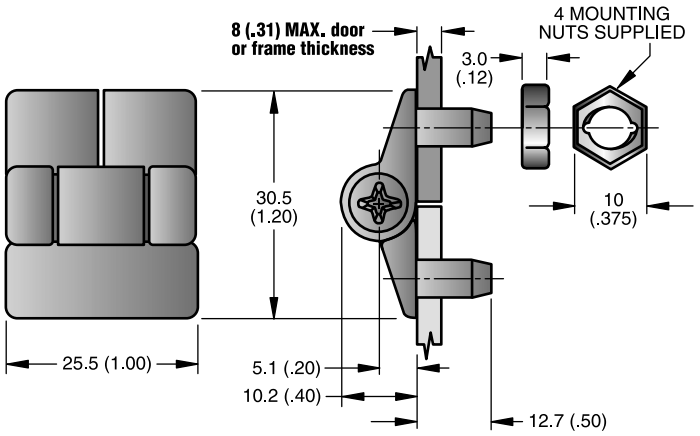
**www.clancey.com**

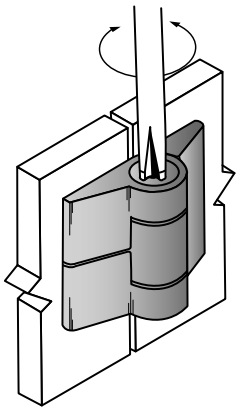
- **Hold doors open, partially open, closed.**
- **Turn the screw to dampen or free-up the door swing.**

## ADJUSTABLE FRICTION HINGES

NON-CORROSIVE

## SMALL SIZE

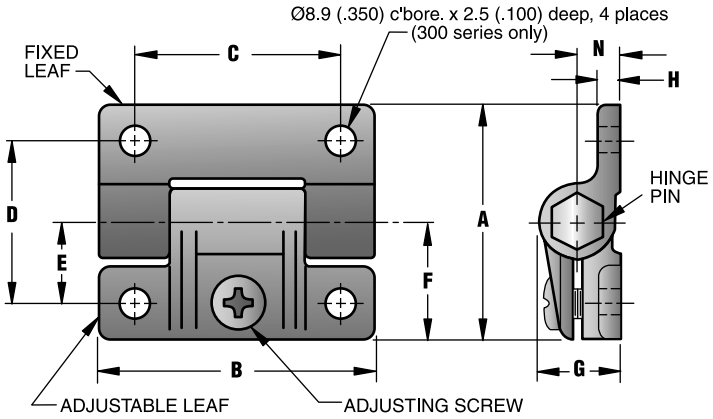


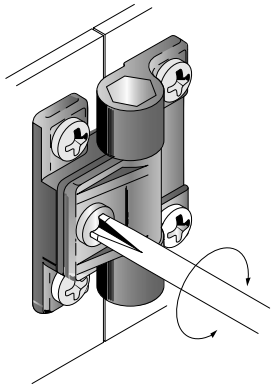





| COLOR | PART NUMBERS |
|---|---|
| Black | E6-10-101-20 |
| Colonial White | E6-10-101-30 |

## MEDIUM AND LARGE SIZE





| DIMENSIONS | | | | | | | | | COLOR | PART NUMBERS | SERIES (size) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G | H | N | | | |
| 36.5 (1.44) | 43 (1.69) | 31.7 (1.25) | 25.5 (1.00) | 12.7 (.50) | 18.3 (.72) | 12.7 (.50) | 6 (.23) | 6.7 (.27) | Colonial White | E6-10-301-10 | 300 |
| | | | | | | | | | Black | E6-10-301-20 | |
| 57.5 (2.25) | 63.5 (2.50) | 47.6 (1.88) | 38 (1.50) | 19 (.75) | 28.5 (1.13) | 19.4 (.77) | 5.2 (.20) | 10.3 (.41) | Colonial White | E6-10-501-10 | 500 |
| | | | | | | | | | Black | E6-10-501-20 | |

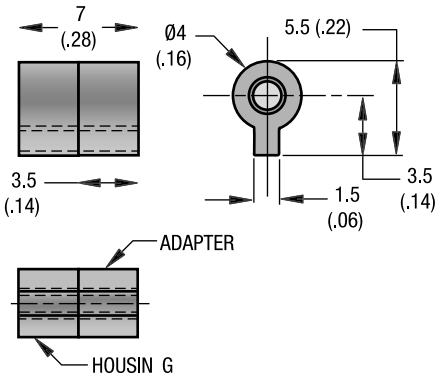
**For detailed material specifications plus product installation instructions.**

**www.clancey.com**

## CEMA™ CONSTANT TORQUE HINGE MINATURE (.3 in. – lbf)

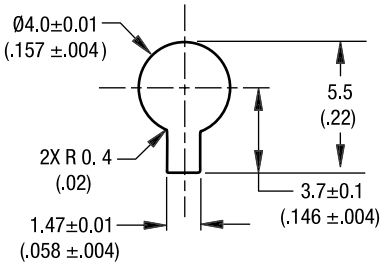


- **Smooth consistant operation.**
- **Extremely compact design.**
- **Requires no adjustment.**
- **Single torque rating.**




| PART NUMBER | STATIC TORQUE |
|---|---|
| ST-4A-3S-33 | 0.35 kg-cm (.3 in - lbf) |

### PANEL PREPARATION




**Note:** 1/2 degree MAX draft, 3.45 (.14) MAX depth. For use in materials otherthan polymers contact Clancey.

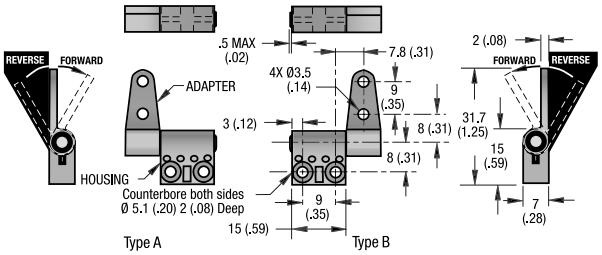
### APPLICATION EXAMPLE:



## CEMA™ CONSTANT TORQUE HINGE SMALL SIZE (3-5 in. – lbf)



- **Smooth operation.**
- **High torque in a small package size.**
- **Asymetric option allows different amounts of torque in each direction.**

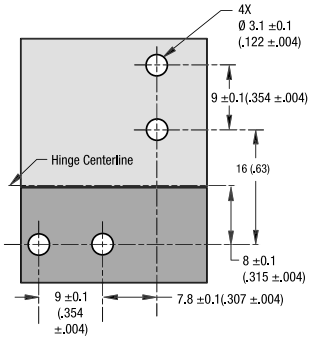



| SYMMETRIC TORQUE VERSIONS | | |
|---|---|---|
| PART NUMBERS | | STATIC TORQUE (FORWARD and REVERSE) |
| TYPE A | TYPE B | |
| ST-7A-30SA-33 | ST-7A-30SB-33 | 3.5 kg-cm (3 in-lbf) |
| ST-7A-40SA-33 | ST-7A-30SB-33 | 4.6 kg-cm (4 in-lbf) |
| ST-7A-50SA-33 • | ST-7A-30SB-33 • | 5.8 kg-cm (5 in-lbf) |

| ASYMMETRIC TORQUE VERSIONS | | | |
|---|---|---|---|
| PART NUMBERS | | STATIC TORQUE | |
| TYPE A | TYPE B | FORWARD | REVERSE |
| ST-7A-40FA-33 | ST-7A-40FB-33 | 4.6 kg-cm (4 in-lbf) | 2.8 kg-cm (2.4 in-lbf)* |
| ST-7A-50FA-33 | ST-7A-50FB-33 | 5.8 kg-cm (5 in-lbf) | 3.5 kg-cm (3 in-lbf)* |
| ST-7A-60FA-33 • | ST-7A-60FB-33 • | 6.9 kg-cm (6 in-lbf) | 4.1 kg-cm (3.6 in-lbf)* |
| ST-7A-40RA-33 | ST-7A-40RB-33 | 2.8 kg-cm (2.4 in-lbf)* | 4.6 kg-cm (4 in-lbf) |
| ST-7A-40RA-33 | ST-7A-50RB-33 | 3.5 kg-cm (3 in-lbf)* | 5.8 kg-cm (5 in-lbf) |
| ST-7A-40RA-33 • | ST-7A-60RB-33 • | 4.1 kg-cm (3.6 in-lbf)* | 6.9 kg-cm (6 in-lbf) |

NOTE: * Tolerance is low-torque direction ± 30%

### PANEL PREPARATION



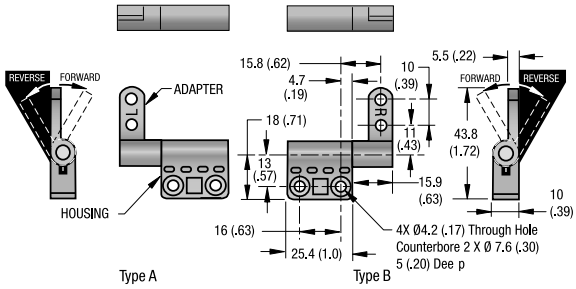

**NOTE:**

- **Installs with #4 socket head screw (not included).**
- **For proper function assembly must include (1) Type A and (1) Type B hinge.**

## CEMA™ CONSTANT TORQUE HINGE MEDIUM SIZE (8-16 in. – lbf)

- Smooth operation.
- Asymetric option allows different amounts of torque in each direction.



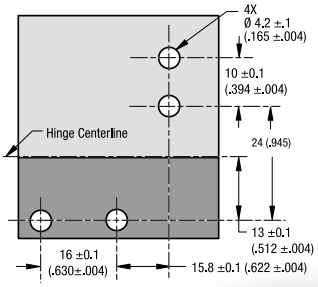



| SYMMETRIC TORQUE VERSIONS | | |
|---|---|---|
| PART NUMBERS | | STATIC TORQUE (FORWARD and REVERSE) |
| TYPE A | TYPE B | |
| ST-10A-80SA-33 | ST-10A-80SB-33 | 9.2 kg-cm (8 in-lbf) |
| ST-10A-120SA-33 | ST-10A-120SB-33 | 13.8 kg-cm (12 in-lbf) |
| ST-10A-160SA-33 • | ST-10A-160SB-33 • | 18.4 kg-cm (16 in-lbf) |

| ASYMMETRIC TORQUE VERSIONS | | | |
|---|---|---|---|
| PART NUMBERS | | STATIC TORQUE | |
| TYPE A | TYPE B | FORWARD | REVERSE |
| ST-10A-120FA-33 | ST-10A-120FB-33 | 13.8 kg-cm (12 in-lbf) | 8.3 kg-cm (7.2 in-lbf)* |
| ST-10A-160FA-33 | ST-10A-160FB-33 | 18.4 kg-cm (16 in-lbf) | 11.1 kg-cm (9.6 in-lbf)* |
| ST-10A-200FA-33• | ST-10A-200FB-33• | 23 kg-cm (20 in-lbf) | 13.8 kg-cm (12 in-lbf)* |
| ST-10A-120RA-33 | ST-10A-120RB-33 | 8.3 kg-cm (7.2 in-lbf)* | 13.8 kg-cm (12 in-lbf) |
| ST-10A-160RA-33 | ST-10A-160RB-33 | 11.1 kg-cm (9.6 in-lbf)* | 18.4 kg-cm (16 in-lbf) |
| ST-10A-200RA-33• | ST-10A-200RB-33• | 13.8 kg-cm (12 in-lbf)* | 23 kg-cm (20 in-lbf) |

NOTE: * Tolerance is low-torque direction ± 30%

### PANEL PREPARATION




**NOTE:**

- Installs with #8 socket head cap screw (not included).
- For proper function assembly must include (1) Type A and (1) Type B hinge.

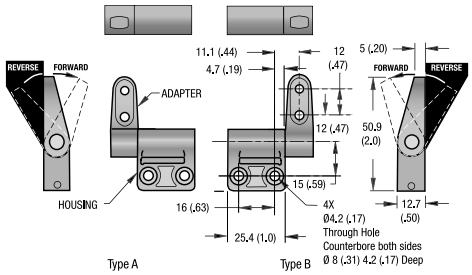
**For detailed material specifications and product strength guidelines.**

**www.clancey.com**

## CEMA™ CONSTANT TORQUE HINGE LARGE SIZE (12-36 in. – lbf)

- Largest force standard offering.
- Asymetric option.
- Consistant performance through 20,000 cycles.





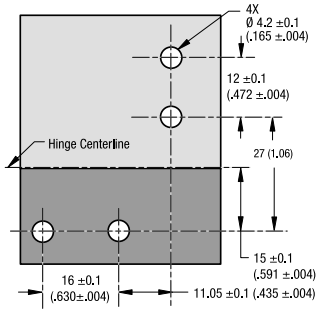

| SYMMETRIC TORQUE VERSIONS | | |
|---|---|---|
| PART NUMBERS | | STATIC TORQUE (FORWARD and REVERSE) |
| TYPE A | TYPE B | |
| ST-12A-120SA-33 | ST-12A-120SB-33 | 13.8 kg-cm (12 in-lbf) |
| ST-12A-200SA-33 | ST-12A-200SB-33 | 23 kg-cm (20 in-lbf) |
| ST-12A-280SA-33 • | ST-12A-280SB-33 • | 32.3 kg-cm (28 in-lbf) |
| ST-12A-360SA-33 • | ST-12A-360SB-33 • | 41.5 kg-cm (36 in-lbf) |

- Installs with #8 socket head cap screws (not included).

| ASYMMETRIC TORQUE VERSIONS | | | |
|---|---|---|---|
| PART NUMBERS | | STATIC TORQUE | |
| TYPE A | TYPE B | FORWARD | REVERSE |
| ST-12A-200FA-33 | ST-12A-200FB-33 | 23 kg-cm (20 in-lbf) | 13.8 kg-cm (12 in-lbf)* |
| ST-12A-280FA-33 | ST-12A-280FB-33 | 32.3 kg-cm (28 in-lbf) | 19.4 kg-cm (16.8 in-lbf)* |
| ST-12A-360FA-33• | ST-12A-360FB-33• | 41.5 kg-cm (36 in-lbf) | 24.9 kg-cm (21.6 in-lbf)* |
| ST-12A-440RA-33 | ST-12A-440RB-33 | 50.7 kg-cm (44 in-lbf)* | 30.4 kg-cm (26.4 in-lbf) |
| ST-12A-200RA-33 | ST-12A-200RB-33 | 13.8 kg-cm (12 in-lbf)* | 23 kg-cm (20 in-lbf) |
| ST-12A-280RA-33• | ST-12A-280RB-33• | 19.4 kg-cm (16.8 in-lbf)* | 32.3 kg-cm (28 in-lbf) |
| ST-12A-360RA-33 | ST-12A-360RB-33 | 24.9 kg-cm (21.6 in-lbf)* | 41.5 kg-cm (36 in-lbf) |
| ST-12A-440RA-33• | ST-12A-440RB-33• | 30.4 kg-cm (26.4 in-lbf)* | 50.7 kg-cm (44 in-lbf) |

NOTE: * Tolerance is low-torque direction ± 30%

### PANEL PREPARATION




**NOTE:**

- Installs with #8 socket head cap screw (not included).
- For proper function assembly must include (1) Type A and (1) Type B hinge.

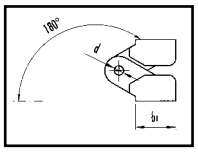
CAD POWERED

## 8-KNUCKLE GUARD HINGE

NON-CORROSIVE

METRIC

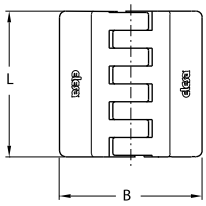
**Material:** Hinge – High impact technopolymer
Pin – 303 stainless steel
**Finish:** Matte black

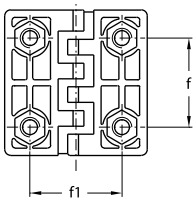



Swing Range

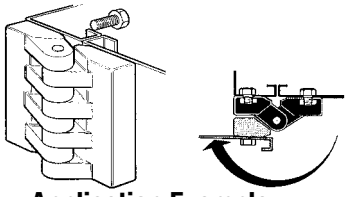
- Ideal for machinery guards.
- 3 mounting designs.
- Impact resistant.
- 180° swing range.
- Resistant to solvents, oil, grease and oher chemical agents.
- Stainless steel, non-removable pin.





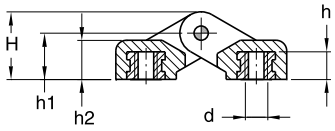




Primary Dimensions



Application Example

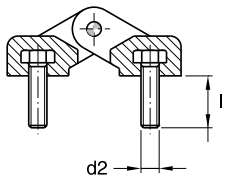
## THREADED INSERT DESIGN




| PART NUMBER | PRIMARY DIMENSIONS | | | | | MOUNTING DIMENSIONS THREADED INSERT DESIGN | | | |
|---|---|---|---|---|---|---|---|---|---|
| | LENGTH "L" | WIDTH "B" | HEIGHT "H" | PIVOT POINT "h1" | FLANGE HEIGHT "h2" | LENGTH CENTERS "f" | WIDTH CENTERS "f1" | THREAD SIZE "d" | THREAD DEPTH "h" |
| 422111 | 49.5 (1.95") | 48 (1.89") | 19 (.75") | 13 (.51") | 11 (.43") | 30.5 (1.20") | 31 (1.22") | M5 | 8.5 (.33") |
| 422211 | 65 (2.56") | 64 (2.52") | 23 (.91") | 15 (.59") | 13.5 (.53") | 40 (1.57") | 40 (1.57") | M6 | 10.5 (.41") |
| 422311 | 96.5 (3.80") | 97.5 (3.84") | 35 (1.38") | 23 (.91") | 20.5 (.81") | 59.5 (2.34") | 62.5 (2.46") | M10 | 15 (.59") |

**Insert Material:** Brass, nickel plated

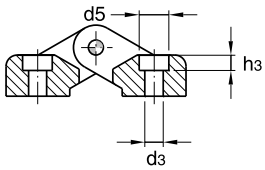
## PROJECTING STUD DESIGN




| PART NUMBER | PRIMARY DIMENSIONS | | | | | MOUNTING DIMENSIONS PROJECTING STUD DESIGN | | | |
|---|---|---|---|---|---|---|---|---|---|
| | LENGTH "L" | WIDTH "B" | HEIGHT "H" | PIVOT POINT "h1" | FLANGE HEIGHT "h2" | LENGTH CENTERS "f" | WIDTH CENTERS "f1" | THREAD SIZE "d2" | THREAD LENGTH "l" |
| 422121 | 49.5 (1.95") | 48 (1.89") | 19 (.75") | 13 (.51") | 11 (.43") | 30.5 (1.20") | 31 (1.22") | M5 | 14 (.55") |
| 422221 | 65 (2.56" | 64 (2.52") | 23 (.91") | 15 (.59") | 13.5 (.53") | 40 (1.57") | 40 (1.57") | M6 | 18 (.71") |
| 422321 | 96.5 (3.80") | 97.5 (3.84") | 35 (1.38") | 23 (.91") | 20.5 (.81") | 59.5 (2.34") | 62.5 (2.46") | M10 | 20 (.79") |

**Projecting Stud Material:** Steel, nickel plated

## THROUGH-HOLE DESIGN




| PART NUMBER | PRIMARY DIMENSIONS | | | | | MOUNTING DIMENSIONS THROUGH HOLE DESIGN | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | LENGTH "L" | WIDTH "B" | HEIGHT "H" | PIVOT POINT "h1" | FLANGE HEIGHT "h2" | LENGTH CENTERS "f" | WIDTH CENTERS "f1" | HOLE DIA. "d3" | RECESS DIA. "d5" | RECESS DEPTH "h3" |
| 422412 | 39.5 (1.56") | 38.5 (1.52") | 14.5 (.57") | 9.5 (.37") | 9 (.35") | 25.1 (.99") | 25 (.98") | 4.5 (.18") | 8.5 (.33") | 4.5 (.18") |
| 422132 | 49.5 (1.95") | 48 (1.89") | 19 (.75") | 13 (.51") | 11 (.43") | 30.5 (1.20") | 31 (1.22") | 5.5 (.22") | 10 (.39") | 5.5 (.22") |
| 422232 | 65 (2.56" | 64 (2.52") | 23 (.91") | 15 (.59") | 13.5 (.53") | 40 (1.57") | 40 (1.57") | 6.5 (.26") | 10 (.39") | 6.5 (.26") |
| 422332 | 96.5 (3.80") | 97.5 (3.84") | 35 (1.38") | 23 (.91") | 20.5 (.81") | 59.5 (2.34") | 62.5 (2.46") | 10.5 (.41") | 16.5 (.65") | 10.5 (.41") |

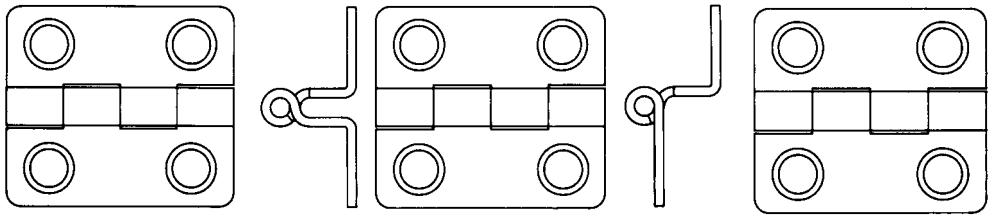
Elesa® original design

- **Variety of shapes and sizes.**
- **Electro-polished and passivated.**
- **Countersunk mounting holes.**

## STAINLESS STEEL BUTT HINGE

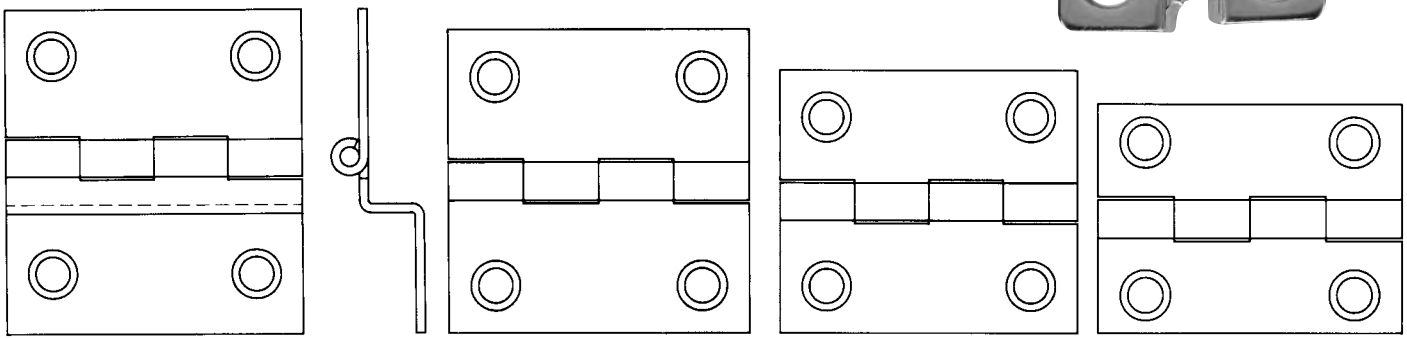
**MSH-1009 (pictured)**



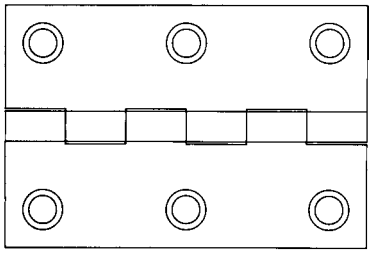
MBH-1009 MBH-1008 MBH-0997



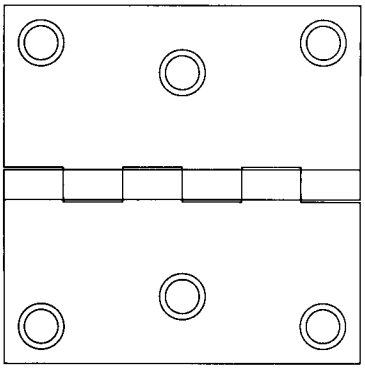


MBH-1002 MBH-0992 MBH-0991 MBH-0990

| PART NUMBER | LEGNTH | WIDTH | NUMBER OF HOLES | SIZE OF SCREW | OFFSET |
|---|---|---|---|---|---|
| **MBH-0997** | 1.50" | 1.32" | 4 | #8 | none |
| **MBH-1008** | 1.50" | 1.32" | 4 | #8 | .375 (1 leaf) |
| **MBH-1009** | 1.50" | 1.32" | 4 | #8 | .375" (both leaves) |
| **MBH-0990** | 2.00" | 1.50" | 4 | #8 | none |
| **MBH-0991** | 2.00" | 1.75" | 4 | #8 | none |
| **MBH-0992** | 2.00" | 2.00" | 4 | #8 | none |
| **MBH-1002** | 2.00" | 2.19" | 4 | #8 | .375" (1 leaf) |
| **MBH-0993** | 3.00" | 2.00" | 6 | #8 | none |
| **MBH-0994** | 3.00" | 3.00" | 6 | #10 | none |



MBH-0993



MBH-0994

- **.060" material thickness.**
- **.120" pin diameter.**

**Drawings are not actual size - please refer to chart.**

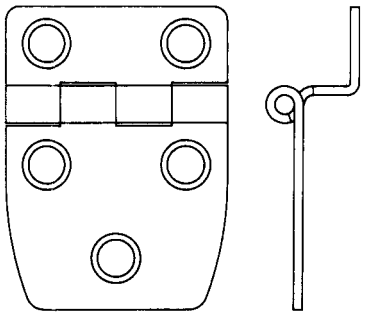
CAD POWERED

## STAINLESS STEEL STRAP HINGES

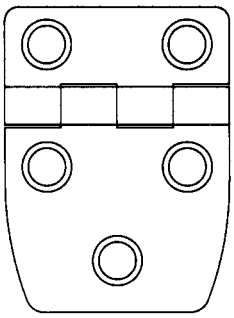
- **Variety of shapes and sizes.**
- **Electro-polished and passivated.**
- **Countersunk mounting holes.**



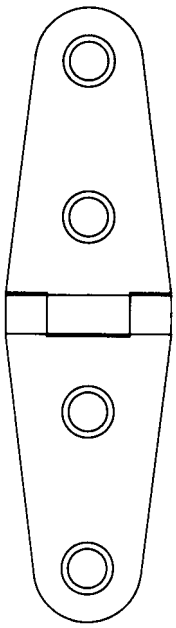
**MSH-1005 (pictured)**



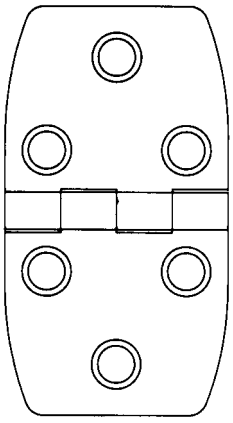
MSH-1005



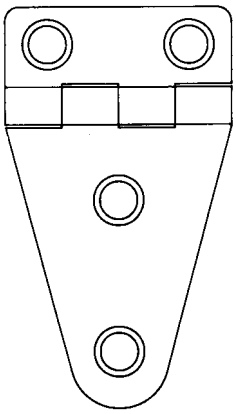
MSH-0999



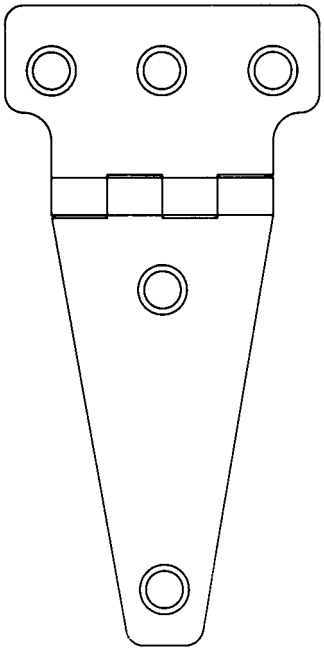
MSH-1012



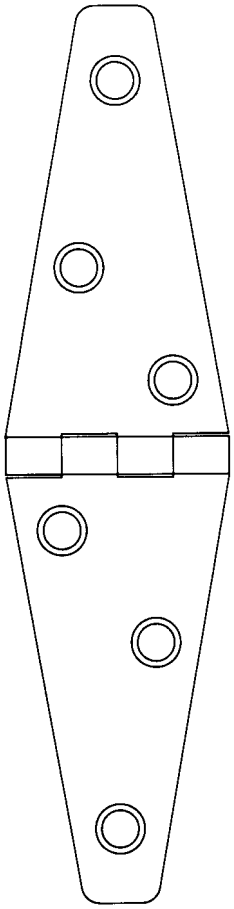
MSH-0998



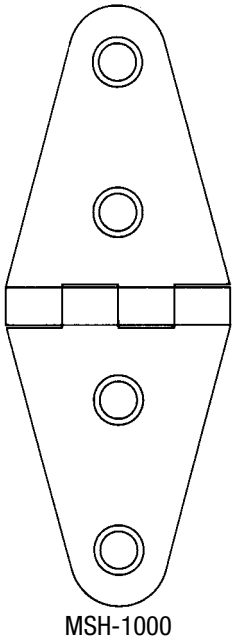
MSH-1004



MSH-1010



MSH-1001



MSH-1000

| PART NUMBER | LEGNTH | WIDTH | NUMBER OF HOLES | SIZE OF SCREW | OFFSET |
|---|---|---|---|---|---|
| **MSH-1012** | 1.07" | 4.00" | 4 | #8 | none |
| **MSH-0999** | 1.50" | 2.00" | 5 | #8 | none |
| **MSH-1005** | 1.50" | 2.00" | 5 | #8 | .375 (1 leaf) |
| **MSH-0998** | 1.50" | 2.75" | 6 | #8 | none |
| **MSH-1004** | 1.50" | 2.63" | 4 | #8 | none |
| **MSH-1000** | 1.50" | 4.00" | 4 | #8 | none |
| **MSH-1001** | 1.50" | 6.00" | 6 | #8 | none |
| **MSH-1010** | 2.13" | 4.25" | 5 | #8 | none |

- **.060" material thickness.**
- **.120" pin diameter.**

**Drawings are not actual size - please refer to chart.**

# QUICK ACCESS FASTENERS
## 1/4-TURN ASSEMBLIES

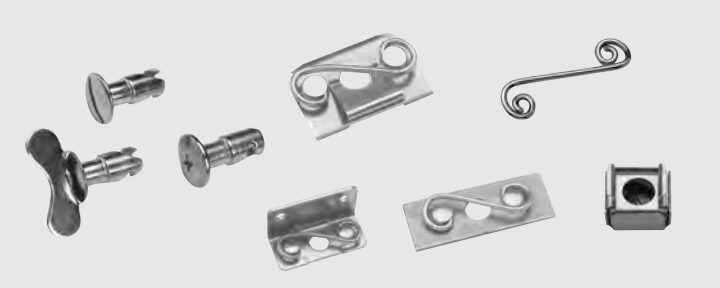
Online Configuration. www.clancey.com

## DZUS® 1/4 TURN FASTENERS

### STANDARD LINE

- High vibration solution.
- Broadest 1/4 turn grip range.

This is the series that started it all. Excellent product that delivers predictable clamping force and is well suited for high vibration applications. High load strength, cycle life and a broad grip range make the standard line an excellent choice.



### PANEX® LINE

- High tensile and shear strength.
- Variety of actuation styles and sizes.

STAINLESS AVAILABLE

Excellent choice for applications in these industries.

- Off-highway vehicles
- HVAC
- Lighting
- Motorcycles



### RAPIER® LINE

- Tool driven.
- Economical choice for high volume applications.

The rapier line is manufactured on automated equipment to exacting standards. The result is an economical fastener for volume applications. A wide variety of stud diameters and receptacles allows the rapier line to be easily engineered into a large range of application environments.



## HOW TO SELECT A SOUTHCO® QUARTER-TURN FASTENER

- **Interactive product configuration at www.clancey.com.**

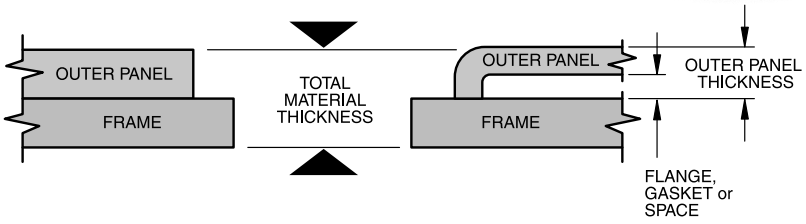
**Online Configuration. www.clancey.com**

**1. Select a receptacle (note frame thickness limitations).**

**Small**
**Medium**
**Large**

**2. Select a stud.**

a) **Measure your outer panel-thickness or total material thickness.**
**Note: Receptacle selection will determine which measurement you will use.**




b) **If there is an adjustment formula under receptacle, apply the adjustment formula to your measurement.**

c) **If you are using the wear washer or ejector spring option, apply the adjustment to your measurement.**

d) **Choose a head style and use your adjusted measurement to select a stud which will work in your application.**

**3. Select a retainer.**

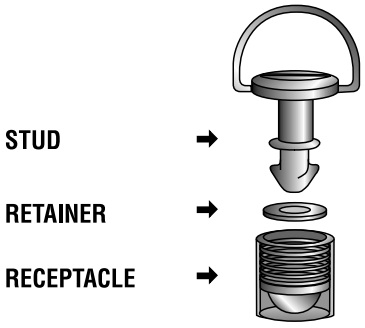
**Small**
**Medium**
**Large**

**4. Order your components.**

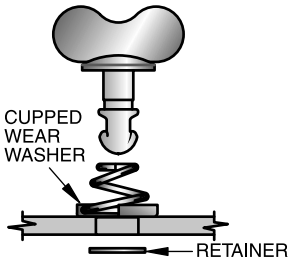
**Required**
- **Stud**
- **Retainer**
- **Receptacle**

**Optional**
- **Wear washer**
- **Ejector spring**
- **Tools**

**STANDARD ASSEMBLY**




**STUD EJECTOR**




**PLEASE NOTE:**

**Quarter-turn fastener assemblies have narrow tolerance ranges. If tolerance control is a problem, please consider a fast-lead screw assembly.**

- 5 receptacle styles.
- Stainless steel options available.

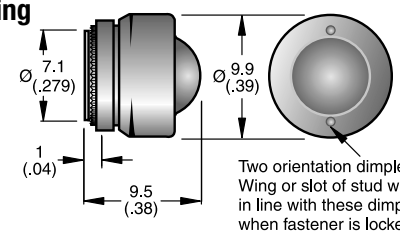
**SMALL SERIES, RECEPTACLES**

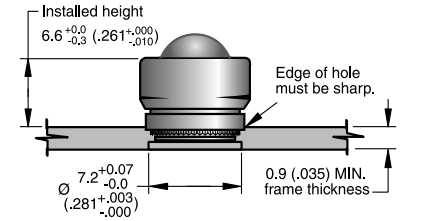
## SHIELDED PRESS-IN FOR SHEET METAL

**PART NUMBER**
**81-35-311-55**

- Provides RFI/EMI shielding

**STUD SELECTION**
- Use column II in stud selection table.
- Use constant 1.3 mm (.050") for frame thickness if frame thickness is less than 1.3 mm (.050").




NOTE: For use in low carbon steels, aluminum and stainless steels in the annealed condition that are $R_B$85 or less.

**Material:**
**Shell:** Steel
**Spring:** Stainless steel

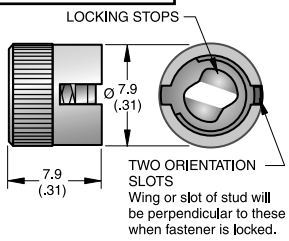
**TOOL PART NUMBER**
**54-0-5466-11**

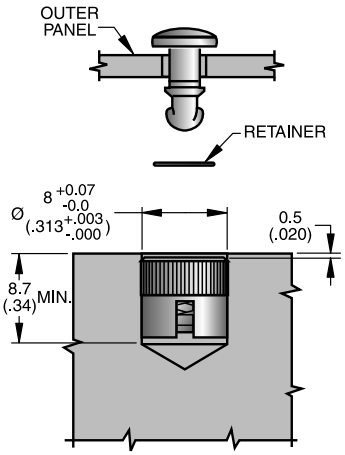
## PRESS-IN FOR BLIND APPLICATIONS AND SOLID MATERIALS

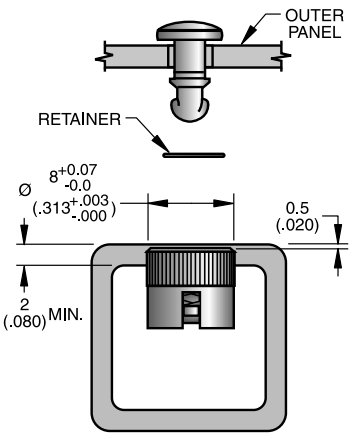
**PART NUMBER**
**81-35-308-55**

**STUD SELECTION**
- Determine outer panel thickness.
- Use column I in stud selection table.

**Material:**
**Shell:** Steel
**Spring:** Stainless steel



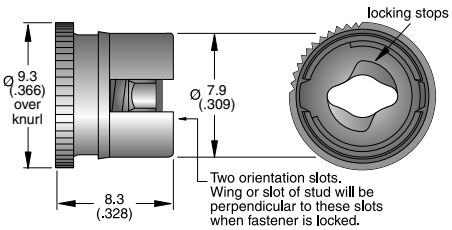




## FOR ULTRASONIC INSTALLATION IN THERMOPLASTICS

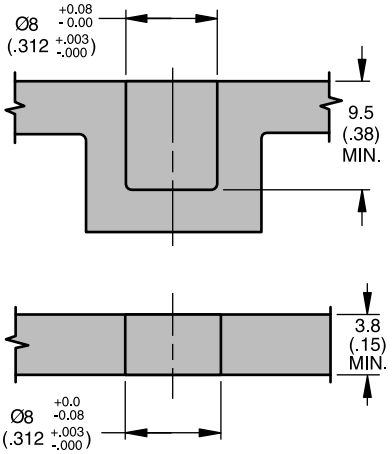
**PART NUMBER**
**81-35-310-55**

**STUD SELECTION**
- Determine total material thickness.
- Use column I in stud selection table.

**Material:**
**Shell:** Steel
**Spring:** Stainless steel

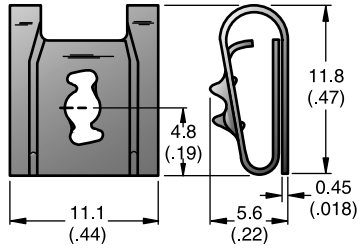



**INSTALLATION**

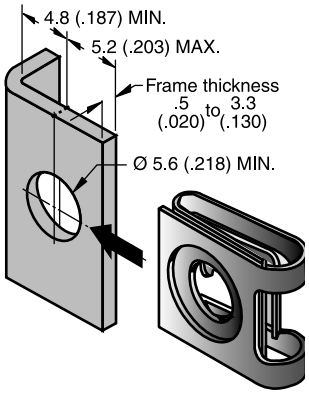


## SMALL SERIES, RECEPTACLES

STAINLESS STEEL AVAILABLE




### PANEL PREPARATION




### CLIP-ON STYLE

| Part Description | PART NUMBER |
|---|---|
| 1064 STEEL, DACROTIZED† | 81-47-101-15 |
| 17-7 PH stainless steel | 81-47-101-20 |

### STUD SELECTION

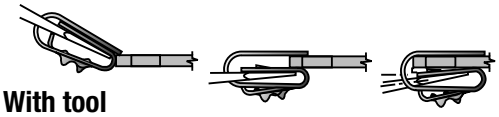
- Determine total material thickness.
- Use column II in stud selection table.

### TO INSTALL

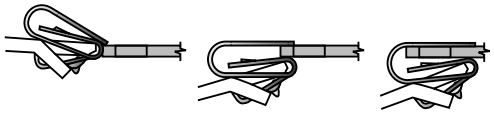
**By hand**



**With screwdriver**



**With tool**



### INSTALLATION TOOL

| PART NUMBER |
|---|
| 29-81-101-10 |

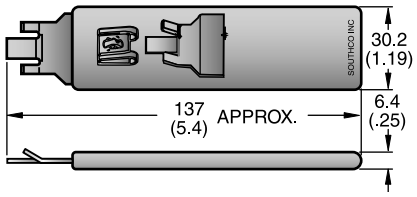
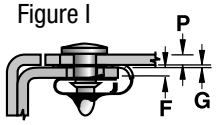
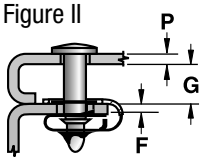



Figure I



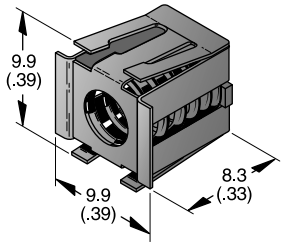

P + F -1.07 (.042) (constant) when G is 0.45 (.018).

Figure II

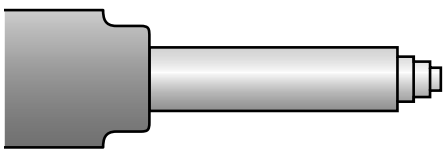



P + F + G -1.5 (.060) (constant) when G is 0.46 (.019) or greater.

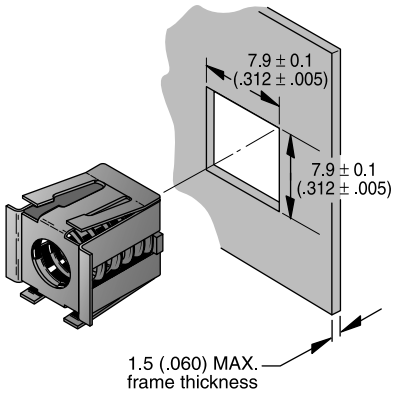
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### INSTALLATION TOOL



| PART NUMBER |
|---|
| 29-8125-309 |




### SNAP-IN STYLE

| PART NUMBER |
|---|
| 81-35-309-56 |

### STUD SELECTION

- Add 1.5 mm (.060") to outer panel thickness.
- Use column II in stud selection table.

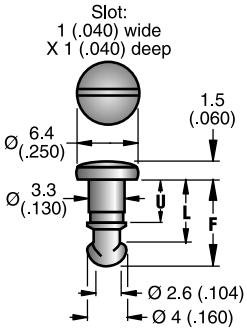
**Material:**

**Housing and retainer:** 301 stainless steel
**Receptacle:** 1010 steel, zinc plate
**Spring:** 302 stainless steel, passivated

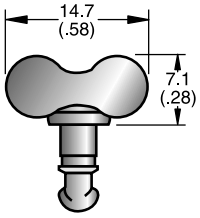
- Interactive configuration at www.clancey.com
- Quick access fastener assembly.
- 4 head styles.
- 5 receptacle styles.
- For limited space applications.

## SMALL SERIES, STUD SELECTION TABLE

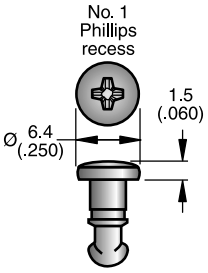
### OVAL SLOTTED



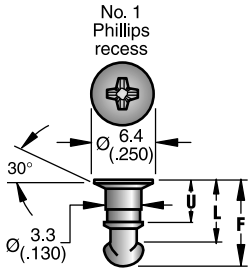

### WING HEAD




### OVAL PHILLIPS RECESS




### FLUSH PHILLIPS RECESS




| I | | II | | STUD PART NUMBER | | | | DIMENSIONS | | |
|---|---|---|---|---|---|---|---|---|---|---|
| FOR: Press-in Part No. 81-35-308-55 and Ultrasonic Part No. 81-35-310-55 | | FOR: ALL OTHER RECEPTACLES | | Zinc plate, chromate plus sealer | | Case hardened and zinc plate chromate plus sealer. | | U | L | F |
| Outer Panel Thickness | | Total Material Thickness | | OVAL SLOTTED | WING HEAD | OVAL PHILLIPS RECESS | FLUSH PHILLIPS RECESS | | | |
| MIN. | MAX. | MIN. | MAX. | | | | | | | |
| 1 (.040) | 1.5 (.059) | 2.3 (.090) | 2.8 (.109) | 81-11-100-16 | 81-12-100-16 | 81-18-100-16 | 81-19-100-16 | 4.9 (.193) | 7.2 (.285) | 9.8 (.385) |
| 1.5 (.060) | 2 (.079) | 2.8 (.110) | 3.3 (.129) | 81-11-120-16 | 81-12-120-16 | 81-18-120-16 | 81-19-120-16 | 5.4 (.213) | 7.8 (.305) | 10.3 (.405) |
| 2 (.080) | 2.5 (.099) | 3.3 (.130) | 3.8 (.149) | 81-11-140-16 | 81-12-140-16 | 81-18-140-16 | 81-19-140-16 | 5.9 (.233) | 8.3 (.325) | 10.8 (.425) |
| 2.5 (.100) | 3 (.119) | 3.8 (.150) | 4.3 (.169) | 81-11-160-16 | 81-12-160-16 | 81-18-160-16 | 81-19-160-16 | 6.4 (.253) | 8.8 (.345) | 11.3 (.445) |
| 3 (.120) | 3.5 (.139) | 4.3 (.170) | 4.8 (.189) | 81-11-180-16 | 81-12-180-16 | 81-18-180-16 | 81-19-180-16 | 6.9 (.273) | 9.3 (.365) | 11.8 (.465) |
| 3.6 (.140) | 4.1 (.159) | 4.8 (.190) | 5.3 (.209) | 81-11-200-16 | 81-12-200-16 | 81-18-200-16 | 81-19-200-16 | 7.4 (.293) | 9.8 (.385) | 12.3 (.485) |
| 4.1 (.160) | 4.6 (.179) | 5.3 (.210) | 5.8 (.229) | 81-11-220-16 | 81-12-220-16 | 81-18-220-16 | 81-19-220-16 | 8 (.313) | 10.3 (.405) | 12.8 (.505) |
| 4.6 (.180) | 5.1 (.199) | 5.8 (.230) | 6.3 (.249) | 81-11-240-16 | 81-12-240-16 | 81-18-240-16 | 81-19-240-16 | 8.5 (.333) | 10.8 (.425) | 13.3 (.525) |
| 5.1 (.200) | 5.6 (.219) | 6.4 (.250) | 6.9 (.269) | 81-11-260-16 | 81-12-260-16 | 81-18-260-16 | 81-19-260-16 | 9 (.353) | 11.0 (.445) | 13.8 (.545) |
| 5.6 (.220) | 6.1 (.239) | 6.9 (.270) | 7.4 (.289) | 81-11-280-16 | 81-12-280-16 | 81-18-280-16 | 81-19-280-16 | 9.5 (.373) | 11.8 (.465) | 14.4 (.565) |
| 6.1 (.240) | 6.6 (.259) | 7.4 (.290) | 7.9 (.309) | 81-11-300-16 | 81-12-300-16 | 81-18-300-16 | 81-19-300-16 | 10 (.393) | 12.3 (.485) | 14.9 (.585) |
| 6.6 (.260) | 7.1 (.279) | 7.9 (.310) | 8.4 (.329) | 81-11-320-16 | 81-12-320-16 | 81-18-320-16 | 81-19-320-16 | 10.5 (.413) | 12.8 (.505) | 15.4 (.605) |

### OVAL SLOTTED



### WING HEAD



### OVAL PHILLIPS RECESS



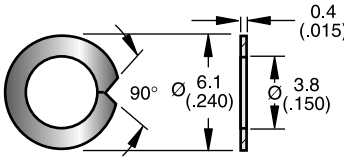
### FLUSH PHILLIPS RECESS



## SMALL SERIES, RETAINERS

STAINLESS STEEL AVAILABLE

### SPLIT RING

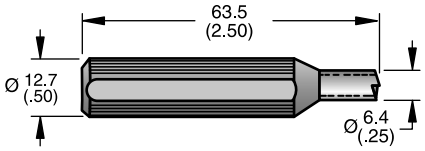



Stainless Steel

| PART NUMBER |
|---|
| 81-32-101-20 |

RETAINER

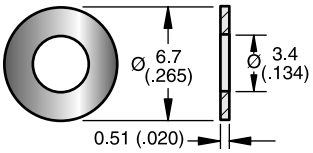
### INSTALLATION TOOL




| PART NUMBER |
|---|
| 81-0-15129-11 |

TOOL

### PUSH-ON

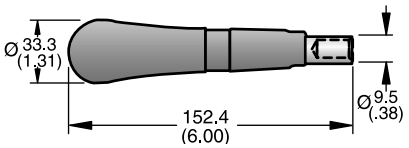



Nylon, Black

| PART NUMBER |
|---|
| 81-32-301-12 |

RETAINER

### INSTALLATION TOOL




| PART NUMBER |
|---|
| 81-0-18173-11 |

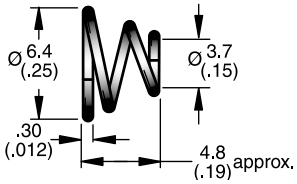
TOOL

## SMALL SERIES, ACCESSORIES

**Adjustment**

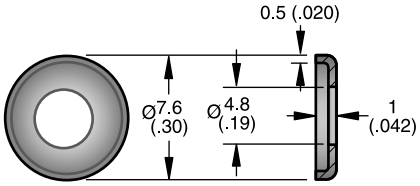
- **Wear washer and ejector spring** add .8 mm (.032") to outer panel or total material thickness.
- **Wear washer** add .5 mm (.020") to outer panel or total material thickness.

### EJECTOR SPRING




Stainless Steel

### WEAR WASHER




Nylon

| PART NUMBER | | |
|---|---|---|
| EJECTOR SPRING | WEAR WASHER | |
| | Black | Natural |
| 81-41-102-24 | 81-46-101-41 | 81-46-101-39 |

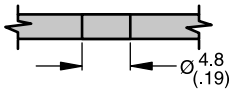
* Accessories cannot be used with flush phillips head style.

## SMALL SERIES, PANEL PREPARATION

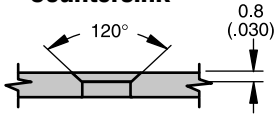
### FOR FLUSH-HEAD STYLE



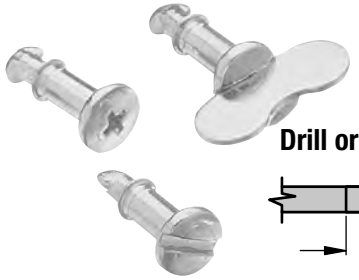
Drill or Punch



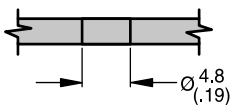

Countersink




### FOR ABOVE-SURFACE STYLES



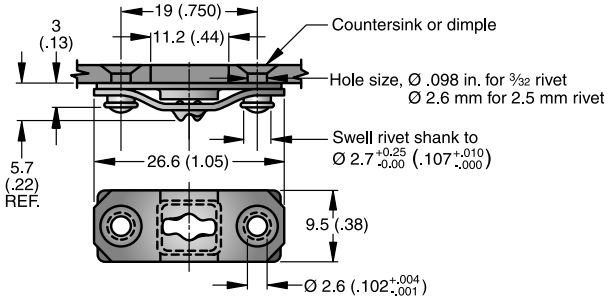
Drill or Punch



## MEDIUM SERIES, RECEPTACLES

## LEAF SPRING RECEPTACLES

### FOR RIVETING - WITH BASE

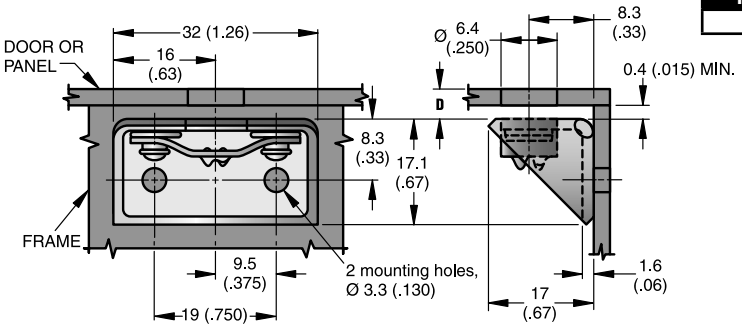



| PART NUMBER |
|---|
| 82-35-302-15 |

**STUD SELECTION**
- Determine total material thickness.
- Use column IV in stud selection table.

**Material:**
**Spring:** 1064 steel
**Bracket:** 1010 steel

### SIDE MOUNT



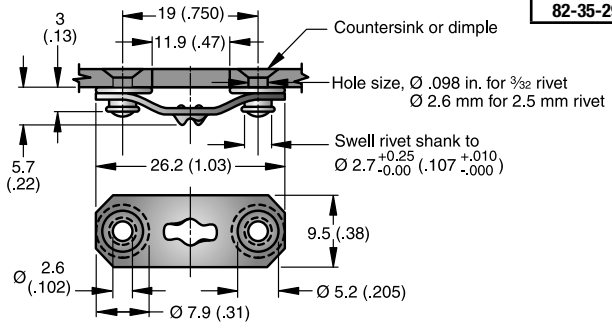

| PART NUMBER |
|---|
| 82-45-101-15 |

**STUD SELECTION**
- Calculate D + 1.5 mm (.060").
- Use column IV in stud selection table.

**Material:**
**Spring:** 1064 steel
**Bracket:** 1010 steel

### FOR RIVETING - WITHOUT BASE

| PART NUMBER | |
|---|---|
| Steel | Stainless Steel |
| 82-35-295-15 | 82-35-295-20 |

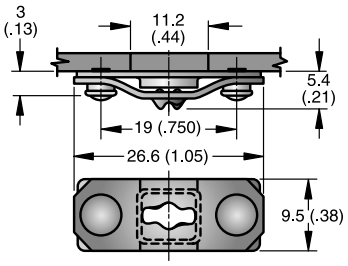


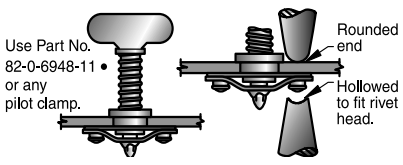

**STUD SELECTION**
- Determine total material thickness.
- Use column IV in stud selection table.

STAINLESS STEEL AVAILABLE

**Material:**
**Spring:** 1064 steel or 17-7 stainless
**Eyelet:** Steel or 302 stainless

### FOR WELDING




| PART NUMBER |
|---|
| 82-35-303-15 |

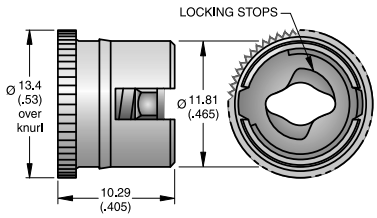
**STUD SELECTION**
- Determine total material thickness.
- Use column IV in stud selection table.

**Material:**
**Spring:** 1064 steel
**Base:** 1010 steel
**Weld studs:** Steel, copper plate

## MEDIUM SERIES, RECEPTACLES

### FOR ULTRASONIC INSTALLATION IN THERMOPLASTICS

| PART NUMBER |
|---|
| 82-35-302-15 |

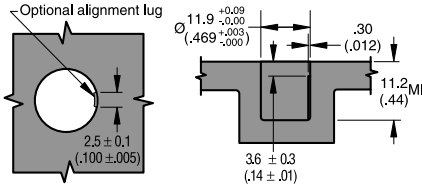



**Material:**
**Shell:** Steel
**Spring:** Stainless steel

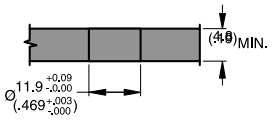
**STUD SELECTION**
- Determine outer panel thickness.
- Use column II in stud selection table.

### PANEL PREPARATION

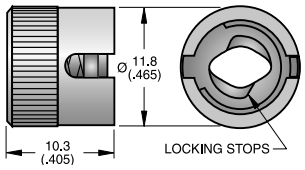
**Blind Hole Application**




**Through Hole Application**



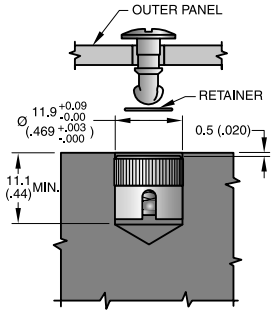

### PRESS-IN FOR BLIND APPLICATIONS AND SOLID MATERIALS

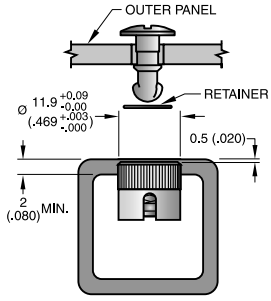



| PART NUMBER | |
|---|---|
| with 90 locking stops | 82-35-308-55 |
| without 90 locking stops | 82-35-313-55 |

**Material:** **Shell:** Steel **Spring:** Stainless steel

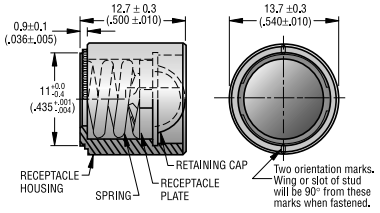
**STUD SELECTION**
- Calculate D + 1.5 mm (.060").
- Use column IV in stud selection table.




### SHIELDED PRESS-IN

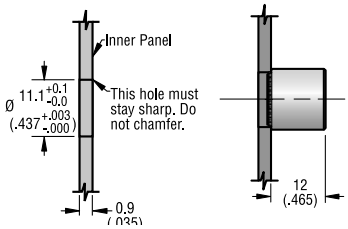
| PART NUMBER |
|---|
| 82-35-315-55 |




**Material:**
**Shell:** Steel
**Spring:** Stainless steel

**STUD SELECTION**
- Determine total material thickness.
- Substitute 1.3 mm (.051") for frame thickness if thickness is less than 1.3 mm (.051").
- Use column III in stud selection table.

### PANEL PREPARATION

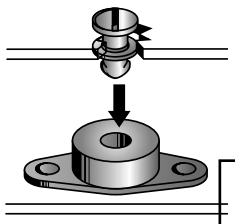



1. Drill or punch hole in inner panel.
2. Press receptacle into hole until the shoulder on the receptacle bottoms out on the panel's surface.

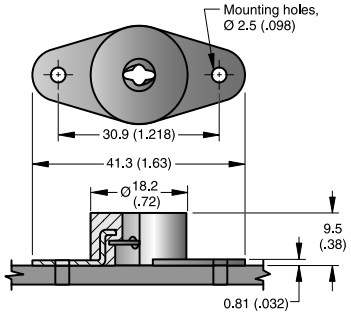
*Note: for inner panels less than 1.3 (.051) thick, the retainer will create a slight gap between the panels. For proper stud selection in these cases, assume the inner panel thickness as 1.3 (.051).

### VIBRATION ISOLATING

| PART NUMBER |
|---|
| 82-35-306-10 |



**STUD SELECTION**
- Determine outer panel thickness.
- Use column I in stud selection table.




**Material:**
**Receptacle:** Steel
**Plate:** Aluminum
**Boss:** Neoprene

## MEDIUM SERIES, RECEPTACLES

Try this part in your application Please call for samples.

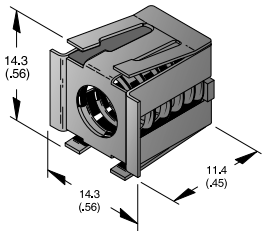
800-747-7405

### SNAP-IN STYLE

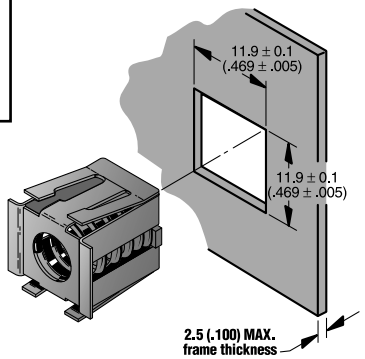
| PART NUMBER |
|---|
| 82-35-309-56 |

**STUD SELECTION**

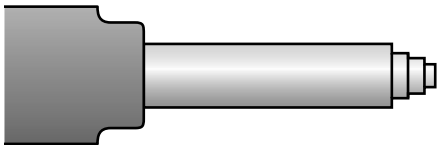
- Calculate outer panel thickness + 5.08 mm (.200").
- Use column IV in stud selection table.




**PANEL PREPARATION**




**INSTALLATION TOOL**



| PART NUMBER |
|---|
| 29-8125-309 |

**Material:**

| | |
|---|---|
| Housing and retainer: | Stainless |
| Receptacle: | Steel |
| Spring: | Stainless |

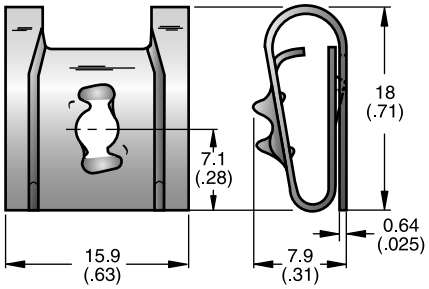
### CLIP-ON STYLE

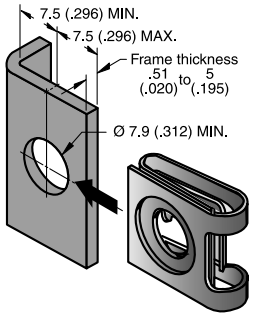
| PART NUMBER | |
|---|---|
| Steel | 82-47-113-15 |
| Stainless Steel | 82-47-113-20 |

**STUD SELECTION**

- Enter result in column IV of stud selection table.

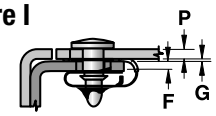
**PANEL PREPARATION**



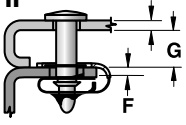

STAINLESS STEEL AVAILABLE

**Figure I**



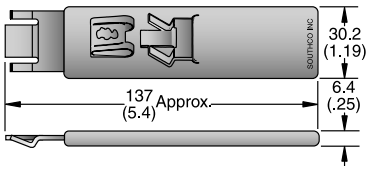

P + F + 1.40 (.055) (constant) when G is 0.64 (.025) .

**Figure II**

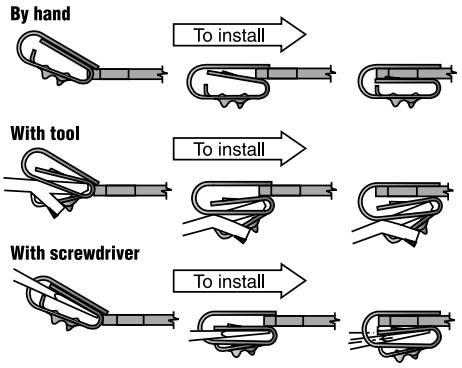



P + F + G + 0.76 (.030) (constant) when G is 0.65 (.026) or greater.

**INSTALLATION TOOL**




| PART NUMBER |
|---|
| 29-82-101-10 |



CAD POWERED

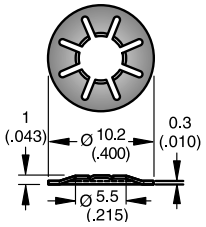
southco® AUTHORIZED DISTRIBUTOR

## MEDIUM SERIES, RETAINERS

STAINLESS STEEL AVAILABLE

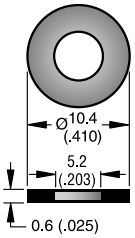
**PART NUMBER**
**82-32-201-20**

**304 Stainless Steel, passivated.**



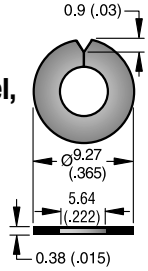

**PART NUMBER**
**82-32-301-12**

**Nylon, black.**




**PART NUMBER**
**82-32-101-20**

**302 Stainless Steel, passivated.**




### INSTALLATION TOOL

**PART NUMBER**
**82-0-22542-11**

### INSTALLATION TOOL

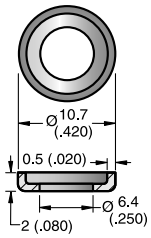
**PART NUMBER**
**82-0-7595-11**

## MEDIUM SERIES, ACCESSORIES

### NYLON WEAR WASHERS

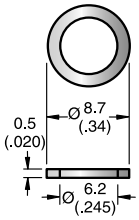
#### CUPPED

**PART NUMBER**
**82-46-103-39**
Black
**82-46-101-39**
Natural




#### FLAT

**PART NUMBER**
**82-46-103-39**
Natural




**Adjustment**

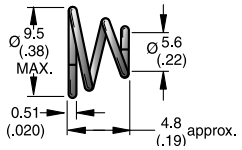
- **Add .5 mm (.020") to your outer panel thickness or total material thickness.**

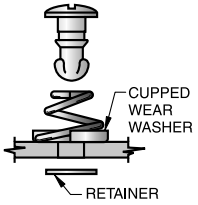
### EJECTOR SPRING

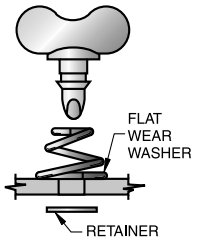
NON-CORROSIVE

**PART NUMBER**
**43-13-1-24**

**302 Stainless steel, passivated.**




**Adjustment**

- **When using an ejector spring and wear washer add 1 mm (.040") to your outer panel thickness or total material thickness.**

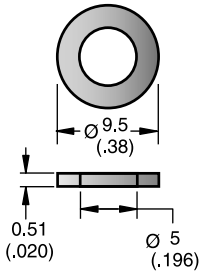
### SEALING WASHERS

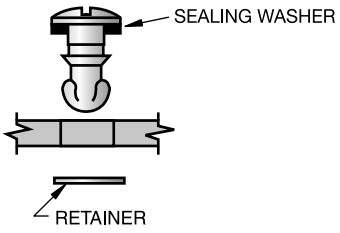
**PART NUMBER**
**82-43-201-38**

**Nitrile fibre core rubber, black.**

**Adjustment**

- **Add .5 mm (.020") to your outer panel thickness or total material thickness.**



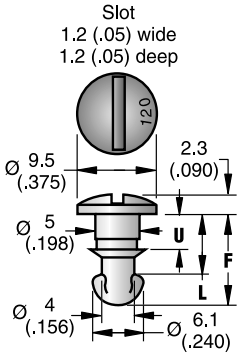



- **Interactive configurator at www.clancey.com**
- **9 head styles.**
- **Spring loaded fully retractable assemblies are available.**
- **Stainless steel available in many styles.**

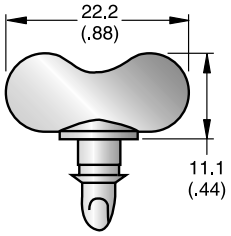
## MEDIUM SERIES, STUD SELECTION TABLE

STAINLESS STEEL AVAILABLE

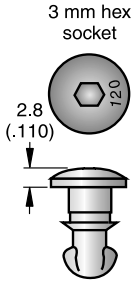
### OVAL SLOTTED



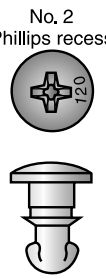

### WING HEAD



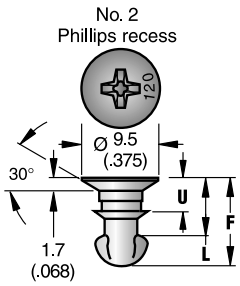

### HEX SOCKET




### OVAL PHILLIPS




### FLUSH PHILLIPS



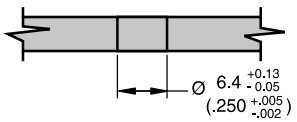

| I | | II | | III | | IV | | STUD PART NUMBER | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FOR: Part No. 82-35-306-10 | | FOR: Press-in Part Nos. 82-35-308-55 82-35-313-55 and Ultrasonic Part No. 82-35-310-55 | | FOR: Part No. 82-35-315-55 | | FOR: ALL OTHER RECEPTACLES | | Zinc plate, chromate plus sealer | | | |
| | | | | | | | | OVAL SLOTTED | WING HEAD | HEX SOCKET | OVAL PHILLIPS RECESS |
| OUTER PANEL THICKNESS | | OUTER PANEL THICKNESS | | TOTAL MATERIAL THICKNESS | | TOTAL MATERIAL THICKNESS | | | | | |
| MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | | | | |
| 0.7 (.026) | 1.2 (.045) | — | — | — | — | 2.3 (.090) | 2.8 (.109) | 82-11-100-16 | 82-12-100-16 | — | 82-19-100-16 |
| 1.2 (.046) | 1.7 (.065) | — | — | — | — | 2.8 (.110) | 3.3 (.129) | 82-11-120-16 | 82-12-120-16 | 82-78-120-16 | 82-19-120-16 |
| 1.7 (.066) | 2.2 (.085) | — | — | — | — | 3.3 (.130) | 3.8 (.149) | 82-11-140-16 | 82-12-140-16 | 82-78-140-16 | 82-19-140-16 |
| 2.2 (.086) | 2.7 (.105) | 0 (.000) | 0.5 (.019) | 1.3 (.050) | 1.8 (.069) | 3.8 (.150) | 4.3 (.169) | 82-11-160-16 | 82-12-160-16 | 82-78-160-16 | 82-19-160-16 |
| 2.7 (.106) | 3.2 (.125) | 0.5 (.020) | 1 (.039) | 1.8 (.070) | 2.3 (.089) | 4.3 (.170) | 4.8 (.189) | 82-11-180-16 | 82-12-180-16 | 82-78-180-16 | 82-19-180-16 |
| 3.2 (.126) | 3.7 (.145) | 1 (.040) | 1.5 (.059) | 2.3 (.090) | 2.8 (.109) | 4.8 (.190) | 5.3 (.209) | 82-11-200-16 | 82-12-200-16 | 82-78-200-16 | 82-19-200-16 |
| 3.7 (.146) | 4.2 (.165) | 1.5 (.060) | 2 (.079) | 2.8 (.110) | 3.3 (.129) | 5.3 (.210) | 5.8 (.229) | 82-11-220-16 | 82-12-220-16 | 82-78-220-16 | 82-19-220-16 |
| 4.2 (.166) | 4.7 (.185) | 2 (.080) | 2.5 (.099) | 3.3 (.130) | 3.8 (.149) | 5.8 (.230) | 6.3 (.249) | 82-11-240-16 | 82-12-240-16 | 82-78-240-16 | 82-19-240-16 |
| 4.7 (.186) | 5.2 (.205) | 2.5 (.100) | 3 (.119) | 3.8 (.150) | 4.3 (.169) | 6.4 (.250) | 6.9 (.269) | 82-11-260-16 | 82-12-260-16 | 82-78-260-16 | 82-19-260-16 |
| 5.2 (.206) | 5.7 (.225) | 3 (.120) | 3.5 (.139) | 4.3 (.170) | 4.8 (.189) | 6.9 (.270) | 7.4 (.289) | 82-11-280-16 | 82-12-280-16 | 82-78-280-16 | 82-19-280-16 |
| 5.7 (.226) | 6.2 (.245) | 3.6 (.140) | 4.1 (.159) | 4.8 (.190) | 5.3 (.209) | 7.4 (.290) | 7.9 (.309) | 82-11-300-16 | 82-12-300-16 | 82-78-300-16 | 82-19-300-16 |
| — | — | 4.1 (.160) | 4.6 (.179) | 5.3 (.210) | 5.8 (.229) | 7.9 (.310) | 8.4 (.329) | 82-11-320-16 | 82-12-320-16 | 82-78-320-16 | 82-19-320-16 |
| — | — | 4.6 (.180) | 5.1 (.199) | 5.8 (.230) | 6.3 (.249) | 8.4 (.330) | 8.9 (.349) | 82-11-340-16 | 82-12-340-16 | 82-78-340-16 | 82-19-340-16 |
| — | — | 5.1 (.200) | 5.6 (.219) | 6.4 (.250) | 6.9 (.269) | 8.9 (.350) | 9.4 (.369) | 82-11-360-16 | 82-12-360-16 | 82-78-360-16 | 82-19-360-16 |
| — | — | 5.6 (.220) | 6.1 (.239) | 6.9 (.270) | 7.4 (.289) | 9.4 (.370) | 9.9 (.389) | 82-11-380-16 | 82-12-380-16 | 82-78-380-16 | 82-19-380-16 |
| — | — | 6.1 (.240) | 6.6 (.259) | 7.4 (.290) | 7.9 (.309) | 9.9 (.390) | 10.4 (.409) | 82-11-400-16 | 82-12-400-16 | 82-78-400-16 | 82-19-400-16 |
| — | — | 6.6 (.260) | 7.1 (.279) | 7.9 (.310) | 8.4 (.329) | 10.4 (.410) | 10.9 (.429) | 82-11-420-16 | 82-12-420-16 | 82-78-420-16 | 82-19-420-16 |
| — | — | 7.1 (.280) | 7.6 (.299) | 8.4 (.330) | 8.9 (.349) | 10.9 (.430) | 11.4 (.449) | 82-11-440-16 | 82-12-440-16 | 82-78-440-16 | 82-19-440-16 |
| — | — | 7.6 (.300) | 8.1 (.319) | 8.9 (.350) | 9.4 (.369) | 11.4 (.450) | 11.9 (.469) | 82-11-460-16 | 82-12-460-16 | 82-78-460-16 | 82-19-460-16 |
| — | — | 8.1 (.320) | 8.6 (.339) | 9.4 (.370) | 9.9 (.389) | 11.9 (.470) | 12.4 (.489) | 82-11-480-16 | 82-12-480-16 | 82-78-480-16 | 82-19-480-16 |
| — | — | 8.6 (.340) | 9.1 (.359) | 9.9 (.390) | 10.4 (.409) | 12.5 (.490) | 12.9 (.509) | 82-11-500-16 | 82-12-500-16 | 82-78-500-16 | 82-19-500-16 |
| — | — | 9.1 (.360) | 9.6 (.379) | 10.4 (.410) | 10.9 (.429) | 13 (.510) | 13.5 (.529) | 82-11-520-16 | 82-12-520-16 | 82-78-520-16 | 82-19-520-16 |
| — | — | 9.6 (.380) | 10.1 (.399) | 10.9 (.430) | 11.4 (.449) | 13.5 (.530) | 14 (.549) | 82-11-540-16 | 82-12-540-16 | 82-78-540-16 | 82-19-540-16 |
| — | — | 10.2 (.400) | 10.7 (.419) | 11.4 (.450) | 11.9 (.469) | 14 (.550) | 14.5 (.569) | 82-11-560-16 | 82-12-560-16 | 82-78-560-16 | 82-19-560-16 |
| — | — | 10.7 (.420) | 11.2 (.439) | 11.9 (.470) | 12.4 (.489) | 14.5 (.570) | 15 (.589) | 82-11-580-16 | 82-12-580-16 | 82-78-580-16 | 82-19-580-16 |

**Low profile head styles are available in stainless steel: change suffix from -15 to -20.**

**www.clancey.com**

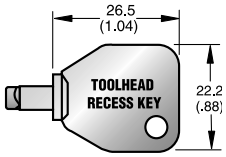
### PANEL PREPARATION - ABOVE SURFACE STYLES

**Drill or Punch**



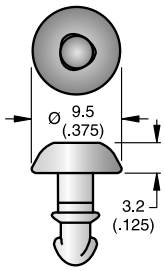
CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

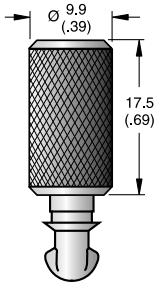




| PART NUMBER |
|---|
| 29-90-214-10 |

### TOOLHEAD RECESS

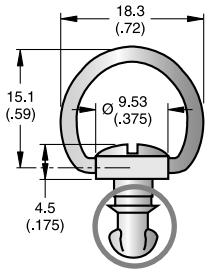



### KNURLED HEAD




### BAIL STYLE RB

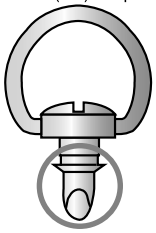
For use when receptacle is vertical.




### BAIL STYLE RA

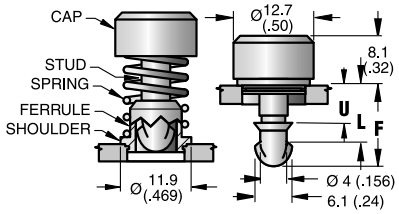
For use when receptacle is horizontal.

Slot
1.2 (.05) wide,
1.2 (.05) deep



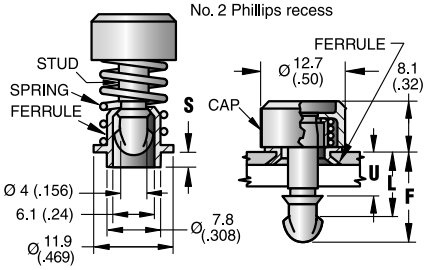
### PRESS-IN STUD ASSEMBLY

NOTE: Stud will float
1 (.040) total movement



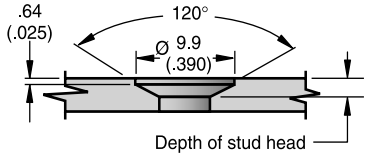

### FLARE-IN STUD ASSEMBLY

No. 2 Phillips recess




| STUD PART NUMBER | | | | | STUD ASSEMBLIES | | | | DIMENSIONS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Zinc plate, chromate plus sealer. | | | | | PRESS-IN STYLE | | FLARE-IN STYLE | | | | |
| | | | | | | | BRIGHT | | | | |
| FLUSH PHILLIPS RECESS | TOOLHEAD RECESS | KNURLED HEAD | BAIL STYLE RB | BAIL STYLE RA | BRIGHT | BLACK | I S = 1.5 (.058) | II S = 2.6 (.104) | U | L | F REF. |
| 82-28-100-16 | 82-T-100 | 82-13-100-16 | — | — | 82-56-105-60 | 82-56-105-50 | — | — | 3.2 (.127) | 6.2 (.245) | 10 (.395) |
| 82-28-120-16 | 82-T-120 | 82-13-120-16 | 82-16-120-16 | 82-15-120-16 | 82-56-125-60 | 82-56-125-50 | 82-56-121-60 | 82-56-122-60 | 3.7 (.147) | 6.7 (.265) | 10.5 (.415) |
| 82-28-140-16 | 82-T-140 | 82-13-140-16 | 82-16-140-16 | 82-15-140-16 | 82-56-145-60 | 82-56-145-50 | 82-56-141-60 | 82-56-142-60 | 4.2 (.167) | 7.2 (.285) | 11.1 (.435) |
| 82-28-160-16 | 82-T-160 | 82-13-160-16 | 82-16-160-16 | 82-15-160-16 | 82-56-165-60 | 82-56-165-50 | 82-56-161-60 | 82-56-162-60 | 4.8 (.187) | 7.8 (.305) | 11.6 (.455) |
| 82-28-180-16 | 82-T-180 | 82-13-180-16 | 82-16-180-16 | 82-15-180-16 | 82-56-185-60 | 82-56-185-50 | 82-56-181-60 | 82-56-182-60 | 5.3 (.207) | 8.3 (.325) | 12.1 (.475) |
| 82-28-200-16 | 82-T-200 | 82-13-200-16 | 82-16-200-16 | 82-15-200-16 | 82-56-205-60 | 82-56-205-50 | 82-56-201-60 | 82-56-202-60 | 5.8 (.227) | 8.8 (.345) | 12.6 (.495) |
| 82-28-220-16 | 82-T-220 | 82-13-220-16 | 82-16-220-16 | 82-15-220-16 | 82-56-225-60 | 82-56-225-50 | 82-56-221-60 | 82-56-222-60 | 6.3 (.247) | 9.3 (.365) | 13.1 (.515) |
| 82-28-240-16 | 82-T-240 | 82-13-240-16 | 82-16-240-16 | 82-15-240-16 | 82-56-245-60 | 82-56-245-50 | 82-56-241-60 | 82-56-242-60 | 6.8 (.267) | 9.8 (.385) | 13.6 (.535) |
| 82-28-260-16 | 82-T-260 | 82-13-260-16 | 82-16-260-16 | 82-15-260-16 | 82-56-265-60 | 82-56-265-50 | 82-56-261-60 | 82-56-262-60 | 7.3 (.287) | 10.3 (.405) | 14.1 (.555) |
| 82-28-280-16 | 82-T-280 | 82-13-280-16 | 82-16-280-16 | 82-15-280-16 | 82-56-285-60 | 82-56-285-50 | 82-56-281-60 | 82-56-282-60 | 7.8 (.307) | 10.8 (.425) | 14.6 (.575) |
| 82-28-300-16 | 82-T-300 | 82-13-300-16 | 82-16-300-16 | 82-15-300-16 | 82-56-305-60 | 82-56-305-50 | 82-56-301-60 | 82-56-302-60 | 8.3 (.327) | 11.3 (.445) | 15.1 (.595) |
| 82-28-320-16 | 82-T-320 | 82-13-320-16 | 82-16-320-16 | 82-15-320-16 | 82-56-325-60 | 82-56-325-50 | 82-56-321-60 | 82-56-322-60 | 8.8 (.347) | 11.8 (.465) | 15.6 (.615) |
| 82-28-340-16 | 82-T-340 | 82-13-340-16 | 82-16-340-16 | 82-15-340-16 | 82-56-345-60 | 82-56-345-50 | 82-56-341-60 | 82-56-342-60 | 9.3 (.367) | 12.3 (.485) | 16.1 (.635) |
| 82-28-360-16 | 82-T-360 | 82-13-360-16 | 82-16-360-16 | 82-15-360-16 | 82-56-365-60 | 82-56-365-50 | 82-56-361-60 | 82-56-362-60 | 9.8 (.387) | 12.8 (.505) | 16.6 (.655) |
| 82-28-380-16 | 82-T-380 | 82-13-380-16 | 82-16-380-16 | 82-15-380-16 | 82-56-385-60 | 82-56-385-50 | 82-56-381-60 | 82-56-382-60 | 10.3 (.407) | 13.3 (.525) | 17.2 (.675) |
| 82-28-400-16 | 82-T-400 | 82-13-400-16 | 82-16-400-16 | 82-15-400-16 | 82-56-405-60 | 82-56-405-50 | 82-56-401-60 | 82-56-402-60 | 10.9 (.427) | 13.8 (.545) | 17.7 (.695) |
| 82-28-420-16 | 82-T-420 | 82-13-420-16 | 82-16-420-16 | 82-15-420-16 | 82-56-425-60 | 82-56-425-50 | — | — | 11.4 (.447) | 14.4 (.565) | 18.2 (.715) |
| 82-28-440-16 | 82-T-440 | 82-13-440-16 | 82-16-440-16 | 82-15-440-16 | 82-56-445-60 | 82-56-445-50 | — | — | 11.9 (.467) | 14.9 (.585) | 18.7 (.735) |
| 82-28-460-16 | 82-T-460 | 82-13-460-16 | 82-16-460-16 | 82-15-460-16 | 82-56-465-60 | 82-56-465-50 | — | — | 12.4 (.487) | 15.4 (.605) | 19.2 (.755) |
| 82-28-480-16 | 82-T-480 | 82-13-480-16 | 82-16-480-16 | 82-15-480-16 | 82-56-485-60 | 82-56-485-50 | — | — | 12.9 (.507) | 15.9 (.625) | 19.7 (.775) |
| 82-28-500-16 | 82-T-500 | 82-13-500-16 | 82-16-500-16 | 82-15-500-16 | 82-56-505-60 | 82-56-505-50 | — | — | 13.4 (.527) | 16.4 (.645) | 20.2 (.795) |
| 82-28-520-16 | 82-T-520 | 82-13-520-16 | 82-16-520-16 | 82-15-520-16 | 82-56-525-60 | 82-56-525-50 | — | — | 13.9 (.547) | 16.9 (.665) | 20.7 (.815) |
| 82-28-540-16 | 82-T-540 | 82-13-540-16 | 82-16-540-16 | 82-15-540-16 | 82-56-545-60 | 82-56-545-50 | — | — | 14.4 (.567) | 17.4 (.685) | 21.2 (.835) |
| 82-28-560-16 | 82-T-560 | 82-13-560-16 | 82-16-560-16 | 82-15-560-16 | 82-56-565-60 | 82-56-565-50 | — | — | 14.9 (.587) | 17.9 (.705) | 21.7 (.855) |
| 82-28-580-16 | 82-T-580 | 82-13-580-16 | 82-16-580-16 | 82-15-580-16 | 82-56-585-60 | 82-56-585-50 | — | — | 15.4 (.607) | 18.4 (.725) | 22.2 (.875) |

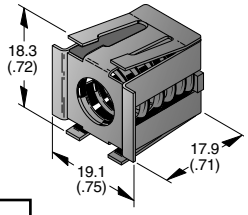
### PANEL PREPARATION - FLUSH HEAD STYLE - When outer panel is 1.3 mm (.050") or greater



## LARGE SERIES, RECEPTACLES

STAINLESS STEEL AVAILABLE

### SNAP-IN STYLE

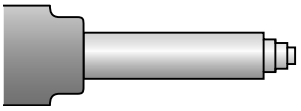



| PART NUMBER |
|---|
| 85-35-309-56 |

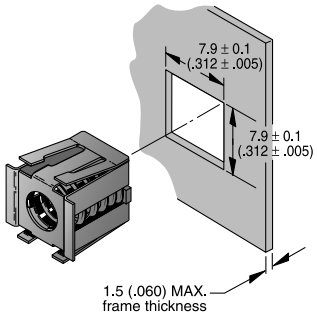
**Material:** See medium size.

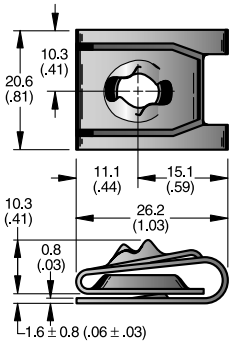
**STUD SELECTION**
- Calculate outer panel thickness + 8.4 mm (.330").
- Use column III in stud selection table.

**PANEL PREPARATION**

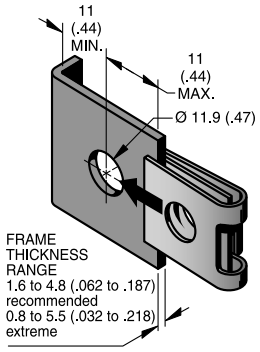


| PART NUMBER |
|---|
| 29-8125-309 |




**PANEL PREPARATION**




### CLIP-ON STYLE

| PART NUMBER | |
|---|---|
| Steel | 85-47-101-15 |
| Stainless Steel | 85-47-101-20 |

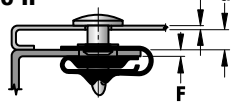
**STUD SELECTION**
- Calculate as follows.
- Use column III in stud selection table.

**Figure I**




P+ F+ 0.94 (.037) (constant) when G is 1.32 (.052).

**Figure II**




P + F + G - 0.38 (.015) (constant) when G is 1.33 (.053) or greater.

**INSTALLATION TOOL**

| PART NUMBER |
|---|
| 29-85-101-10 |

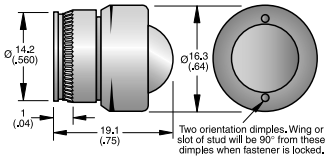
## SHIELDED PRESS-IN FOR SHEET METAL

| PART NUMBER |
|---|
| 85-35-311-55 |

- Provides RFI-EMI shielding

**STUD SELECTION**
- Calculate total material thickness.
- Use column II in stud selection table.
- Substitute 1.4 mm (.055") if frame thickness is less than 1.4 mm (.055").

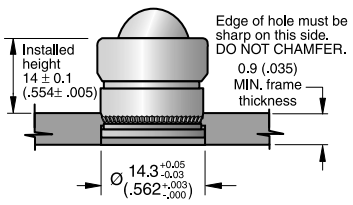
**Material:**
**Shell:** Steel
**Spring:** Stainless steel



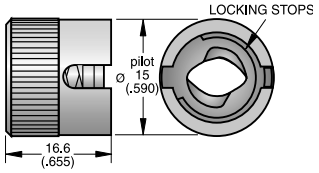

**INSTALLATION TOOL**

| PART NUMBER |
|---|
| 90-2825-11 |

**PANEL PREPARATION**



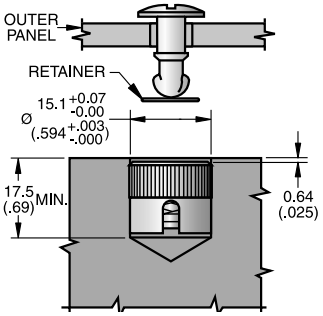

## PRESS-IN FOR BLIND APPLICATIONS AND SOLID MATERIALS

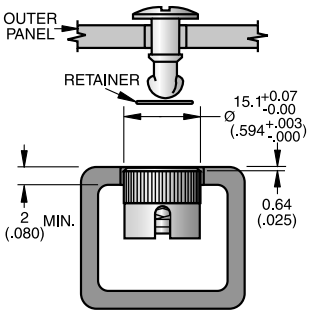



| PART NUMBER | |
|---|---|
| with 90 locking stops | 85-35-308-55 |
| without 90 locking stops | 85-35-313-55 |

**Material:** **Shell:** Steel **Spring:** Stainless steel.

**STUD SELECTION**
- Calculate outer panel thickness.
- Use column I in stud selection table.



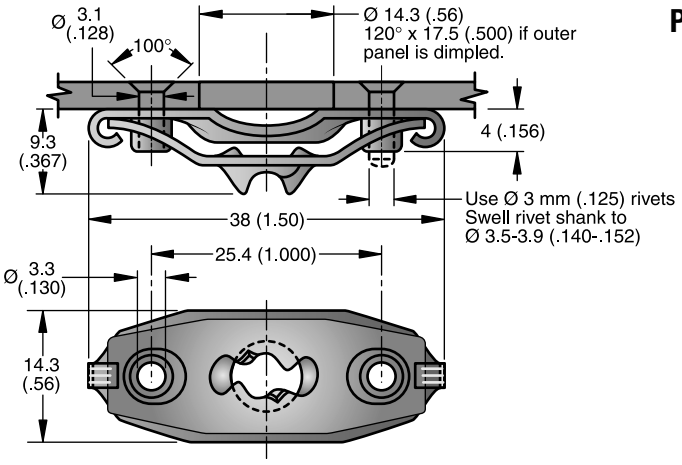
## LARGE SERIES, LEAF SPRING RECEPTACLES

STAINLESS STEEL AVAILABLE

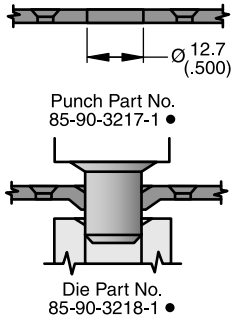
### FOR RIVETING

| PART NUMBER | |
|---|---|
| Steel | Stainless Steel |
| 85-35-295-15 | 85-35-295-20 |

**STUD SELECTION**
- Calculate total material thickness.
- Use column III in stud selection table.




**PANEL PREPARATION**

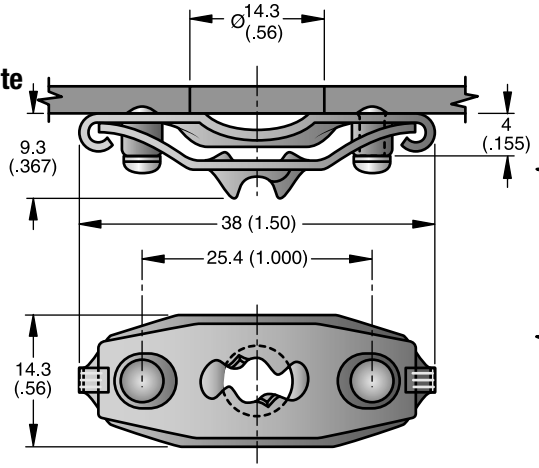


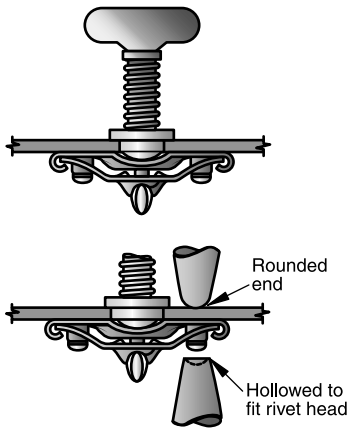

### FOR WELDING

**Material:**
**Spring: 1064 Steel**
**Base: 1010 steel**
**Rivet: Steel, copper plate**

| PART NUMBER |
|---|
| 85-35-296-15 |

**STUD SELECTION**
- Calculate total material thickness.
- Use column III in stud selection table.




**CLAMPING TOOL**

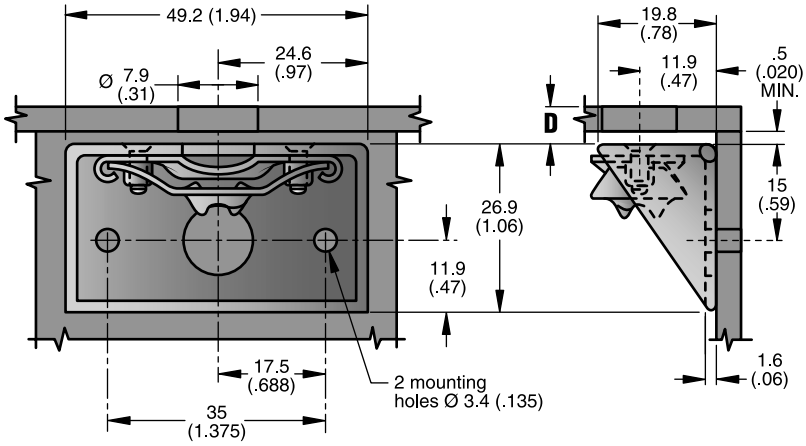
| PART NUMBER |
|---|
| 85-90-3278-11 |

### SIDE MOUNT

**Material:**
**Spring: 1064 steel**
**Bracket: 1010 steel**

| PART NUMBER |
|---|
| 85-45-101-15 |

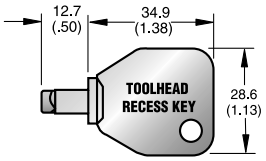
**STUD SELECTION**
- Calculate D + 1.6 mm (.062").
- Use column III in stud selection table.



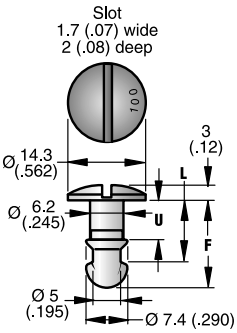
## LARGE SERIES, STUD SELECTION TABLE

STAINLESS STEEL AVAILABLE

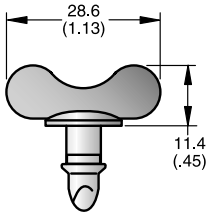
**PART NUMBER**
**29-90-215-10**



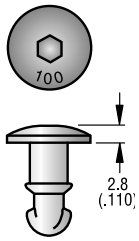

### OVAL SLOTTED



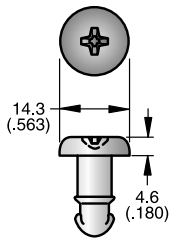

### WING HEAD



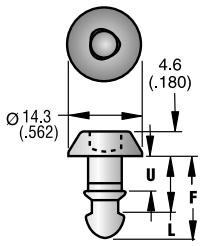

### HEX SOCKET




### PHILLIPS RECESS

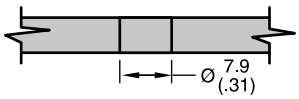



### TOOLHEAD RECESS




| I | | II | | III | | STUD PART NUMBERS | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| FOR: PART NOS. 85-35-308-55 85-35-313-55 | | FOR: PART NOS. 85-35-311-55 | | FOR: ALL OTHER RECEPTACLES* | | Zinc plate, chromate plus sealer | | | Zinc plated plus bright chromate dip | |
| | | | | | | OVAL SLOTTED | WING HEAD | HEX SOCKET | PHILLIPS RECESS | TOOLHEAD RECESS |
| OUTER PANEL THICKNESS‡ | | TOTAL MATERIAL THICKNESS‡ | | TOTAL MATERIAL THICKNESS‡ | | | | | | |
| MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | | | | | |
| | | | | 2.3 (.090) | 2.8 (.109) | 85-11-100-16 | 85-12-100-16 | 85-78-100-16 | 85-P-100 | 85-T-100 |
| | | | | 2.8 (.110) | 3.3 (.129) | 85-11-120-16 | 85-12-120-16 | 85-78-120-16 | 85-P-120 | 85-T-120 |
| | | | | 3.3 (.130) | 3.8 (.149) | 85-11-140-16 | 85-12-140-16 | 85-78-140-16 | 85-P-140 | 85-T-140 |
| | | | | 3.8 (.150) | 4.3 (.169) | 85-11-160-16 | 85-12-160-16 | 85-78-160-16 | 85-P-160 | 85-T-160 |
| | | | | 4.3 (.170) | 4.8 (.189) | 85-11-180-16 | 85-12-180-16 | 85-78-180-16 | 85-P-180 | 85-T-180 |
| | | | | 4.8 (.190) | 5.3 (.209) | 85-11-200-16 | 85-12-200-16 | 85-78-200-16 | 85-P-200 | 85-T-200 |
| | | | | 5.3 (.210) | 5.8 (.229) | 85-11-220-16 | 85-12-220-16 | 85-78-220-16 | 85-P-220 | 85-T-220 |
| | | 1.3 (.050) | 1.8 (.069) | 5.8 (.230) | 6.3 (.249) | 85-11-240-16 | 85-12-240-16 | 85-78-240-16 | 85-P-240 | 85-T-240 |
| 0.4 (.015) | 0.9 (.034) | 1.8 (.070) | 2.3 (.089) | 6.4 (.250) | 6.9 (.269) | 85-11-260-16 | 85-12-260-16 | 85-78-260-16 | 85-P-260 | 85-T-260 |
| 0.9 (.035) | 1.4 (.054) | 2.3 (.090) | 2.8 (.109) | 6.9 (.270) | 7.4 (.289) | 85-11-280-16 | 85-12-280-16 | 85-78-280-16 | 85-P-280 | 85-T-280 |
| 1.4 (.055) | 1.9 (.074) | 2.8 (.110) | 3.3 (.129) | 7.4 (.290) | 7.9 (.309) | 85-11-300-16 | 85-12-300-16 | 85-78-300-16 | 85-P-300 | 85-T-300 |
| 1.9 (.075) | 2.4 (.094) | 3.3 (.130) | 3.8 (.149) | 7.9 (.310) | 8.4 (.329) | 85-11-320-16 | 85-12-320-16 | 85-78-320-16 | 85-P-320 | 85-T-320 |
| 2.4 (.095) | 2.9 (.114) | 3.8 (.150) | 4.3 (.169) | 8.4 (.330) | 8.9 (.349) | 85-11-340-16 | 85-12-340-16 | 85-78-340-16 | 85-P-340 | 85-T-340 |
| 2.9 (.115) | 3.4 (.134) | 4.3 (.170) | 4.8 (.189) | 8.9 (.350) | 9.4 (.369) | 85-11-360-16 | 85-12-360-16 | 85-78-360-16 | 85-P-360 | 85-T-360 |
| 3.4 (.135) | 3.9 (.154) | 4.8 (.190) | 5.3 (.209) | 9.4 (.370) | 9.9 (.389) | 85-11-380-16 | 85-12-380-16 | 85-78-380-16 | 85-P-380 | 85-T-380 |
| 3.9 (.155) | 4.4 (.174) | 5.3 (.210) | 5.8 (.229) | 9.9 (.390) | 10.4 (.409) | 85-11-400-16 | 85-12-400-16 | 85-78-400-16 | 85-P-400 | 85-T-400 |
| 4.4 (.175) | 4.9 (.194) | 5.8 (.230) | 6.3 (.249) | 10.4 (.410) | 10.9 (.429) | 85-11-420-16 | 85-12-420-16 | 85-78-420-16 | 85-P-420 | 85-T-420 |
| 5 (.195) | 5.5 (.214) | 6.4 (.250) | 6.9 (.269) | 10.9 (.430) | 11.4 (.449) | 85-11-440-16 | 85-12-440-16 | 85-78-440-16 | 85-P-440 | 85-T-440 |
| 5.5 (.215) | 6 (.234) | 6.9 (.270) | 7.4 (.289) | 11.4 (.450) | 11.9 (.469) | 85-11-460-16 | 85-12-460-16 | 85-78-460-16 | 85-P-460 | 85-T-460 |
| 6 (.235) | 6.5 (.254) | 7.4 (.290) | 7.9 (.309) | 11.9 (.470) | 12.4 (.489) | 85-11-480-16 | 85-12-480-16 | 85-78-480-16 | 85-P-480 | 85-T-480 |
| 6.5 (.255) | 7 (.274) | 7.9 (.310) | 8.4 (.329) | 12.5 (.490) | 12.9 (.509) | 85-11-500-16 | 85-12-500-16 | 85-78-500-16 | 85-P-500 | 85-T-500 |
| 7 (.275) | 7.5 (.294) | 8.4 (.330) | 8.9 (.349) | 13 (.510) | 13.5 (.529) | 85-11-520-16 | 85-12-520-16 | 85-78-520-16 | 85-P-520 | 85-T-520 |
| 7.5 (.295) | 8 (.314) | 8.9 (.350) | 9.4 (.369) | 13.5 (.530) | 14 (.549) | 85-11-540-16 | 85-12-540-16 | 85-78-540-16 | 85-P-540 | 85-T-540 |
| 8 (.315) | 8.5 (.334) | 9.4 (.370) | 9.9 (.389) | 14 (.550) | 14.5 (.569) | 85-11-560-16 | 85-12-560-16 | 85-78-560-16 | 85-P-560 | 85-T-560 |
| 8.5 (.335) | 9 (.354) | 9.9 (.390) | 10.4 (.409) | 14.5 (.570) | 15 (.589) | 85-11-580-16 | 85-12-580-16 | 85-78-580-16 | 85-P-580 | 85-T-580 |

### PANEL PREPARATION - ALL STUD STYLES




Low profile head styles are available in stainless steel: change suffix from-15 to -20.

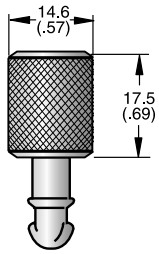
www.clancey.com

## LARGE SERIES, RETAINERS

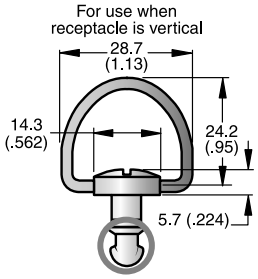
- Interactive configurator at www.clancey.com.

STAINLESS STEEL AVAILABLE

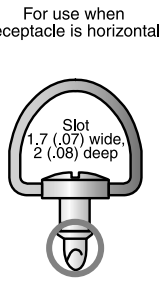
### KNURLED HEAD




### BAIL STYLE RB



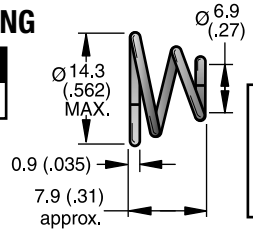

### BAIL STYLE RA




| STUD PART NUMBERS<br>Zinc plate, chromate plus sealer | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| KNURLED HEAD | BAIL STYLE RB | BAIL STYLE RA | U | L | F REF. |
| 85-13-100-16 | 85-16-100-16 | 85-15-100-16 | 5.2 (.205) | 9.1 (.360) | 13.8 (.545) |
| 85-13-120-16 | 85-16-120-16 | 85-15-120-16 | 5.7 (.225) | 9.7 (.380) | 14.4 (.565) |
| 85-13-140-16 | 85-16-140-16 | 85-15-140-16 | 6.2 (.245) | 10.2 (.400) | 14.9 (.585) |
| 85-13-160-16 | 85-16-160-16 | 85-15-160-16 | 6.7 (.265) | 10.7 (.420) | 15.4 (.605) |
| 85-13-180-16 | 85-16-180-16 | 85-15-180-16 | 7.2 (.285) | 11.2 (.440) | 15.9 (.625) |
| 85-13-200-16 | 85-16-200-16 | 85-15-200-16 | 7.8 (.305) | 11.7 (.460) | 16.4 (.645) |
| 85-13-220-16 | 85-16-220-16 | 85-15-220-16 | 8.3 (.325) | 12.2 (.480) | 16.9 (.665) |
| 85-13-240-16 | 85-16-240-16 | 85-15-240-16 | 8.8 (.345) | 12.7 (.500) | 17.4 (.685) |
| 85-13-260-16 | 85-16-260-16 | 85-15-260-16 | 9.3 (.365) | 13.2 (.520) | 17.9 (.705) |
| 85-13-280-16 | 85-16-280-16 | 85-15-280-16 | 9.8 (.385) | 13.7 (.540) | 81.4 (.725) |
| 85-13-300-16 | 85-16-300-16 | 85-15-300-16 | 10.3 (.405) | 14.2 (.560) | 18.9 (.745) |
| 85-13-320-16 | 85-16-320-16 | 85-15-320-16 | 10.8 (.425) | 14.7 (.580) | 19.4 (.765) |
| 85-13-340-16 | 85-16-340-16 | 85-15-340-16 | 11.3 (.445) | 15.2 (.600) | 19.9 (.785) |
| 85-13-360-16 | 85-16-360-16 | 85-15-360-16 | 11.8 (.465) | 15.8 (.620) | 20.5 (.805) |
| 85-13-380-16 | 85-16-380-16 | 85-15-380-16 | 12.3 (.485) | 16.3 (.640) | 21 (.825) |
| 85-13-400-16 | 85-16-400-16 | 85-15-400-16 | 12.8 (.505) | 16.8 (.660) | 21.5 (.845) |
| 85-13-420-16 | 85-16-420-16 | 85-15-420-16 | 13.3 (.525) | 17.3 (.680) | 22 (.865) |
| 85-13-440-16 | 85-16-440-16 | 85-15-440-16 | 13.8 (.545) | 17.8 (.700) | 22.5 (.885) |
| 85-13-460-16 | 85-16-460-16 | 85-15-460-16 | 14.4 (.565) | 18.3 (.720) | 23 (.905) |
| 85-13-480-16 | 85-16-480-16 | 85-15-480-16 | 14.9 (.585) | 18.8 (.740) | 23.5 (.925) |
| 85-13-500-16 | 85-16-500-16 | 85-15-500-16 | 15.4 (.605) | 19.3 (.760) | 24 (.945) |
| 85-13-520-16 | 85-16-520-16 | 85-15-520-16 | 15.9 (.625) | 19.8 (.780) | 24.5 (.965) |
| 85-13-540-16 | 85-16-540-16 | 85-15-540-16 | 16.4 (.645) | 20.3 (.800) | 25 (.985) |
| 85-13-560-16 | 85-16-560-16 | 85-15-560-16 | 16.9 (.665) | 20.8 (.820) | 25.5 (1.005) |
| 85-13-580-16 | 85-16-580-16 | 85-15-580-16 | 17.4 (.685) | 21.3 (.840) | 26 (1.025) |

### EJECTOR SPRING

| PART NUMBER |
|---|
| 14-18-150-24 |

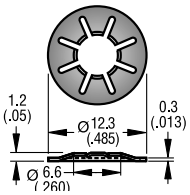



**Adjustment**

- When using an ejector spring and wear washer add 1.5 mm (.060") to your outer panel thickness or total material thickness.

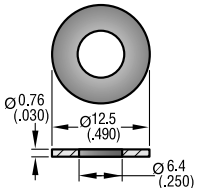
### Stainless

| PART NUMBER |
|---|
| 85-34-201-20 |




### Nylon

| PART NUMBER |
|---|
| 85-34-301-12 |

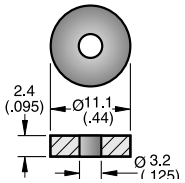



**Use installation tool**

| PART NUMBER |
|---|
| 85-0-22543-11 |

### Neopreme

| PART NUMBER |
|---|
| 85-33-101-27 |




**Install by hand**

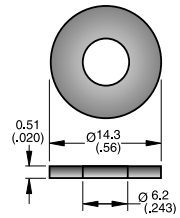
## LARGE SERIES, ACCESSORIES

### NYLON WEAR WASHERS

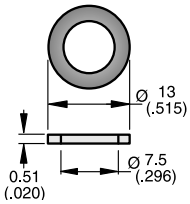
| PART NUMBER | |
|---|---|
| Flat Natural | 85-46-103-39 |
| Cupped Natural | 85-46-101-39 |
| Cupped Black | 85-46-101-41 |

### SEALING WASHER

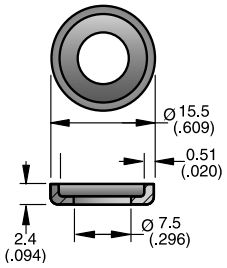
| PART NUMBER |
|---|
| 85-43-201-38 |

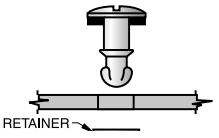



### FLAT




### CUPPED




**Adjustment**

- When using a wear washer or sealing washer add .51 mm (.020") to your outer panel thickness or total material thickness.

NEW ITEMS

- **Lightweight, high strength plastic system.**
- **Economical cost and installation.**
- **High cycle life.**

## DART® 1/4 FASTENERS



NON-CORROSIVE

**How to order DART® fasteners:**

① **Select receptacle on following page.**

② **Determine if you will use the retainer (recommended) or spring eject accessories (optional).**

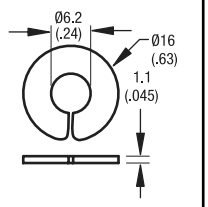
③ **Choose your stud head style.**

④ **Determine "-LLL." Using formulas next to receptacles on following page. Account for retainer, spring and cup when calculating total material thickness (TMT) – see figure 1 below.**

⑤ **Input "LLL" into your stud part number for ordering.**

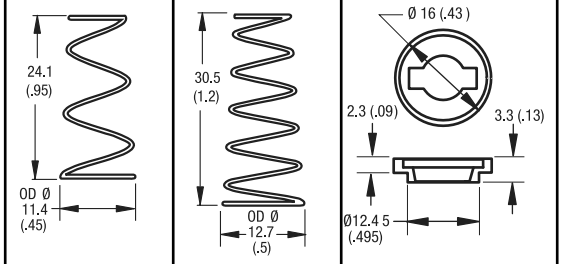
② **Retainer and accessories.**

| PART NUMBER |
|---|
| Split Retainer |
| D1-004-000-010 |




ADJUSTMENT = .045" (1.1)

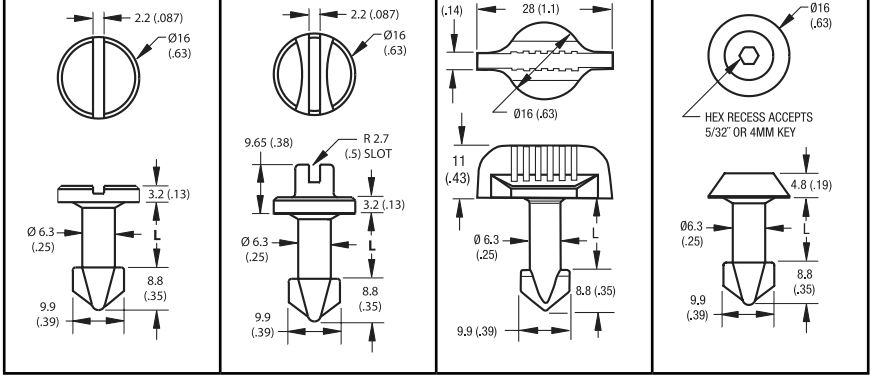
| Accessory PART NUMBERS | | |
|---|---|---|
| Self Ejecting Springs | | Self Ejecting Cup |
| D1-X1135-2S | D1-X1137-2S | D1-X1129 |




WHEN "LLL" = .045-.070 | WHEN "LLL" = .075-.100 | ADJUSTMENT = .090" (2.3)

③ **Select head style.**

| Stud Head Style PART NUMBERS | | | |
|---|---|---|---|
| Straight Slot | Slotted Knob | Wing | Hex |
| D1-004-LLL-030 | D1-444-LLL-030 | D1-125-LLL-030 | D1-166-LLL-030 |




④ **TMT calculation**

**Use TMT to determine "LLL" for receptacle chosen**

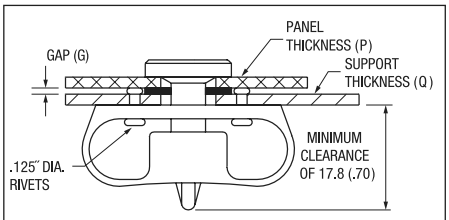



Figure 1: Total Material Thickness (TMT) = P + G + Q

**TMT EXAMPLE**

| | | | |
|---|---|---|---|
| P | Outer panel | = | .060" |
| G | Gap | = | .080" |
| Q | Support (frame) | = | .060" |
| | using cup spring | = | .130" |
| | | | .330" |

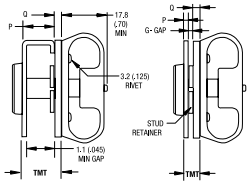
**Use TMT to determine "LLL" on following page.**

**Note: Retainer falls in gap.**

## RIVET-ON RECEPTACLE

| Rivet-In PART NUMBER | D1-004-001-010 |
|---|---|




TMT = P + Q

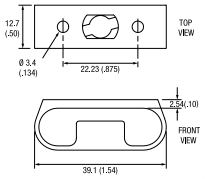
TMT= P + Q + G
G = 1.1 (.045) MIN

### Stud Length Selection

| Stud Length Selection Table | |
|---|---|
| TMT | Stud Dim. "LLL" |
| 2.54 - 3.80 (.100 - .149") | -045 |
| 3.81 - 5.07 (.150 - .199") | -050 |
| 5.08 - 6.34 (.200 - .249") | -055 |
| 6.35 - 7.61 (.250 - .299") | -060 |
| 7.62 - 8.88 (.300 - .349") | -065 |
| 8.89 - 10.15 (.350 - .399") | -070 |
| 10.16 - 11.14 (.400 - .449") | -075 |
| 11.43 - 12.69 (.450 - .499") | -080 |
| 12.70 - 13.96 (.500 - .549") | -085 |
| 13.97 - 15.23 (.550 - .599") | -090 |
| 15.24 - 16.50 (.600 - .649") | -095 |
| 16.51 - 17.77 (.650 - .699") | -100 |

**NOTES:**

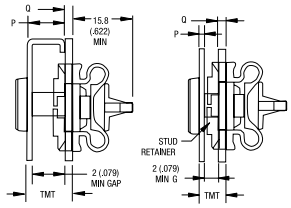
1. Gap thickness (G) is the stud retainer thickness. This part may be nested into recessed holes.
2. Add 1.1 (0.45) for a Split Retainer to your TMT calibration.
3. For use with Self-Ejecting Studs add 2.3 (.090) to your TMT calculation.




## CLIP-ON RECEPTACLE

| Support Thickness Dim Q | Clip-On Receptical PART NUMBERS |
|---|---|
| 0.7 - 2.3 (.027 - .090) | D1-004-921-010 |
| 2.3 - 3.9 (.090 - .153) | D1-004-922-010 |
| 3.9 - 5.5 (1.53 - 2.16) | D1-004-923-010 |




TMT = P + Q

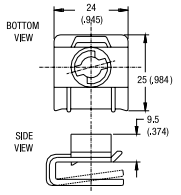
TMT= P + Q + G
G = 2 (.079)

### Stud Length Selection

| Stud Length Selection Table | |
|---|---|
| TMT | Stud Dim. "LLL" |
| 4.32 - 5.58 (.170 - .219") | -045 |
| 5.59 - 6.85 (.220 - .269") | -050 |
| 6.86 - 8.12 (.270 - .319") | -055 |
| 8.13 - 9.39 (.320 - .369") | -060 |
| 9.40 - 10.66 (.370 - .419") | -065 |
| 10.67 - 11.93 (.420 - .469") | -070 |
| 11.94 - 13.20 (.470 - .519") | -075 |
| 13.21 - 14.47 (.520 - .569") | -080 |
| 14.48 - 15.74 (.570 - .619") | -085 |
| 15.75 - 17.01 (.620 - .669") | -090 |
| 17.02 - 18.28 (.670 - .719") | -095 |
| 18.29 - 19.55 (.720 - .769") | -100 |

**NOTES:**

1. Gap thickness (G) is the thickness of receptacle top flange 2 (.079). This part may be nested into recessed holes.
2. For use with Self-Ejecting Studs add 2.3 (.090) to your TMT calculation.




NON-CORROSIVE

## SNAP-IN FRONT LOAD



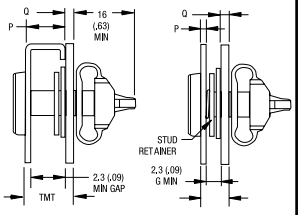

| Support Thickness Dim. Q | Mini Snap-In Front Load PART NUMBERS | X Dim. |
|---|---|---|
| 0.9-1.25 (.035-.049) | D1-004-911-010 | 1.7 (0.67) |
| 1.3-1.75 (.051-.069) | D1-004-912-010 | 2.2 (0.87) |
| 1.8-2.25 (.035-.049) | D1-004-913-010 | 2.7 (1.06) |
| 2.3-2.75 (.091-.109) | D1-004-914-010 | 3.2 (1.26) |
| 2.8-3.25 (.111-.129) | D1-004-915-010 | 3.7 (1.45) |

**Receptacle Selection Table**

Determine the thickness of the support material (Q). Find the Support Thickness Range in the table above to determine your Receptacle Part Number.

### Stud Length Selection

| Stud Length Selection Table | |
|---|---|
| TMT | Stud Dim. "LLL" |
| 4.13 - 5.39 (.169 - .220") | -045 |
| 5.40 - 6.66 (.220 - .272") | -050 |
| 6.67 - 7.93 (.272 - .324") | -055 |
| 7.94 - 9.20 (.324 - .376") | -060 |
| 9.21 - 10.47 (.376 - .427") | -065 |
| 10.48 - 11.47 (.427 - .468") | -070 |
| 11.48 - 13.01 (.468 - .531") | -075 |
| 13.02 - 14.28 (.531 - .583") | -080 |
| 14.39 - 15.55 (.583 - .635") | -085 |
| 15.56 - 16.82 (.635 - .687") | -090 |
| 16.83 - 18.09 (.687 - .738") | -095 |
| 18.10 - 19.36 (.738 - .790") | -100 |

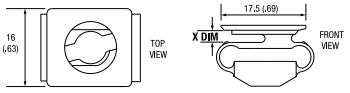



TMT = P + Q

TMT= P + Q + G
G = 1.3 (.05) + Retainer Thickness

**NOTES:**

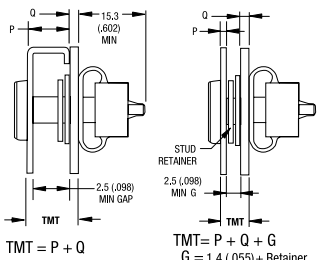
1. Gap thickness (G) is the combined thickness of receptacle top flange 1.1 (0.45) and stud retainer thickness. These parts may be nested into recessed holes.
2. Add 1.15 (0.45) for Split Retainer to your TMT calibration.
3. For use with Self-Ejecting Studs add 2.3 (.09) to your TMT calculation.




## SNAP-IN BACK LOAD




| Support Thickness Ranges Q | Mini Snap-In Back Load PART NUMBERS | X Dim. |
|---|---|---|
| 0.81-1.27 (.032-.050) | D1-004-012-010 | 3 (.118) |
| 1.29-2.54 (.051-.100) | D1-004-013-010 | 4.3 (1.69) |




TMT = P + Q

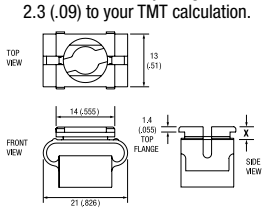
TMT= P + Q + G
G = 1.4 (.055) + Retainer Thickness

### Stud Length Selection

| Stud Length Selection Table | |
|---|---|
| TMT | Stud Dim. "LLL" |
| 4.15 - 5.41 (.169 - .221") | -045 |
| 5.42 - 6.68 (.221 - .273") | -050 |
| 6.69 - 7.95 (.273 - .324") | -055 |
| 7.96 - 9.22 (.324 - .376") | -060 |
| 9.23 - 10.49 (.376 - .428") | -065 |
| 10.50 - 11.76 (.428 - .480") | -070 |
| 11.77 - 13.03 (.480 - .532") | -075 |
| 13.04 - 14.30 (.532 - .587") | -080 |
| 14.31 - 15.57 (.587 - .636") | -085 |
| 15.58 - 16.84 (.636 - .761") | -090 |
| 16.85 - 18.11 (.761 - .739") | -095 |
| 18.12 - 19.38 (.739 - .791") | -100 |

**NOTES:**

1. Gap thickness (G) is the combined thickness of receptacle top flange 1.15 (.045) and stud retainer thickness. These parts may be nested into recessed holes.
2. Add 1.15 (0.45) for Split Retainer to your TMT calibration.
3. For use with Self-Ejecting Studs add 2.3 (.09) to your TMT calculation.



- **Economical 1/4 turn fastener with highly desired "Push-to-Close" action.**
- **Available in black or bright.**
- **Neoprene washer absorbs vibration.**
- **Lateral tolerance receptacle helps with panel deflection and tolerance stack-up.**
- **Can be customized for volume applications.**
- **No tools required for assembly.**

## PILOT® 1/4 TURN FASTENER



## HOW TO ORDER:

**Step 1 –**
**Select Receptacle**

Both receptacles provide the same strength values. Use the Standard Receptacle in normal cases. The Lateral Tolerance Receptacle eases stud alignment. choose either to fit support panel thickness.

**Step 2 –**
**Select Stud**

A choice of two stud styles is offered: standard studs and self ejecting. To complete the stud assembly a separate retainer and washer must be specified at time of order.

**Receptacles**



Standard



Lateral Tolerance

**Studs**



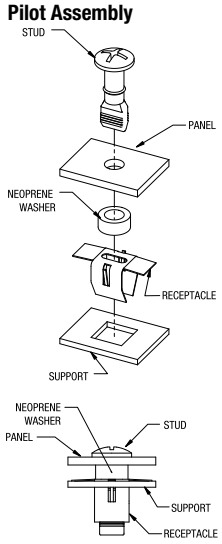
Standard



Self-Ejecting

## HOW IT WORKS

**Pilot Assembly**




Pilot studs and receptacle require no tooling for installation. After panel preparation all components install by hand.

**Typical Assembly**

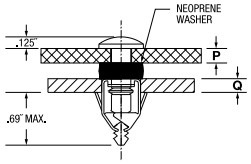
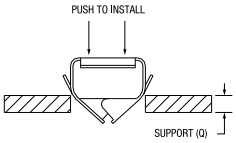
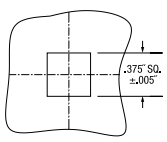
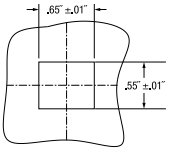



Figure 1:
P = Panel Thickness
Q = Support Thickness

**Receptacle Installation**




**Panel Preparation**

| Standard | Lateral Tolerance |
|---|---|
|  |  |



## SAMPLES

**We are happy to provide samples of this, or any part in our offering to assist in your application development. You may request online 24/7 at www.clancey.com, or call our customer service team at 800-747-7405. We are ready to help.**

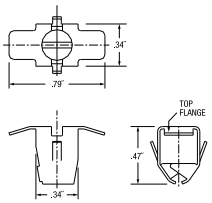
**Step**

**Receptacle selection**

## STANDARD RECEPTACLE




**Standard**



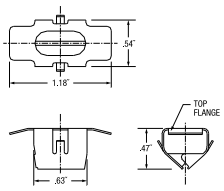

| Support Thickness (Q) | Part Number |
|---|---|
| | Standard |
| .025″ to .049″ | D7-285-101-161 |
| .050″ to .069″ | D7-285-102-161 |
| .070″ to .089″ | D7-285-103-161 |

## LATERAL TOLERANCE RECEPTACLE

- **Provides ± .200" of lateral tolerance.**




Lateral Tolerance




| Support Thickness (Q) | Part Number |
|---|---|
| | Lateral Tolerance |
| .025″ to .049″ | D7-285-201-161 |
| .050″ to .069″ | D7-285-202-161 |
| .070″ to .089″ | D7-285-203-161 |
| .090″ to .109″ | D7-285-204-161 |
| .110″ to .129″ | D7-285-205-161 |

**Material & Finish**

Material: Spring steel
Finish: Zinc phosphate

**Step**

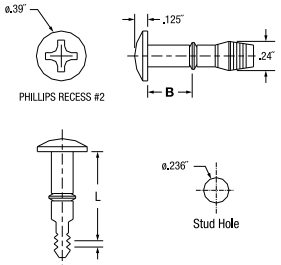
**Pilot® Stud selection**

## STANDARD STUD & WASHER

**NOTE: Order both stud & washer (2) part numbers.**

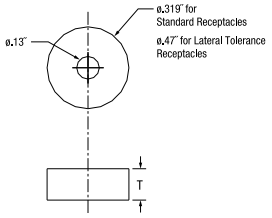
**Standard Studs**






**Material:** Case hardened steel
**Finish:** Zinc plate with black or bright chromate

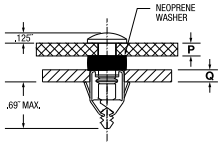
**Washer**




**Material:** Neoprene rubber
**Finish:** Black

**Stud Selection**

1. Select stud and washer part numbers from the tables at right based on your panel thickness (P).
2. Typical washer compression .040" to .080"




**P** = Panel thickness
**Q** = Support thickness

**Stud & Washer Selection**

| P Panel Thickness | Stud Dim. L | Stud Dim. B | T Washer Thickness | Part Numbers | | | |
|---|---|---|---|---|---|---|---|
| | | | | Stud | | Washer | |
| | | | | Black Chromate | Bright Chromate | For Std. Recep. | For Lat. Tol. Recep. |
| .050″ to .069″ | .63″ | .28″ | .16″ | D7-265-716-191 | D7-265-716-190 | D7-275-040-400 | D7-275-140-400 |
| .070″ to .089″ | .63″ | .28″ | .14″ | D7-265-716-191 | D7-265-716-190 | D7-275-035-400 | D7-275-135-400 |
| .090″ to .109″ | .70″ | .35″ | .20″ | D7-265-718-191 | D7-265-718-190 | D7-275-050-400 | D7-275-150-400 |
| .110″ to .129″ | .70″ | .35″ | .18″ | D7-265-718-191 | D7-265-718-190 | D7-275-045-400 | D7-275-145-400 |
| .130″ to .149″ | .70″ | .35″ | .16″ | D7-265-718-191 | D7-265-718-190 | D7-275-040-400 | D7-275-140-400 |
| .150″ to .169″ | .70″ | .35″ | .14″ | D7-265-718-191 | D7-265-718-190 | D7-275-035-400 | D7-275-135-400 |
| .170″ to .189″ | .79″ | .43″ | .20″ | D7-265-720-191 | D7-265-720-190 | D7-275-050-400 | D7-275-150-400 |

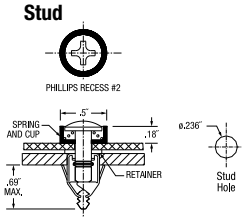
## SELF-EJECT STUD

**NOTE: Order both stud & retainer (2) part numbers.**

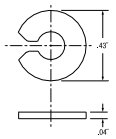
**Self-Ejecting Studs**



**Stud**




**Retainer (Required)**




**Material:** Case hardened steel
**Finish:** Zinc plate with black or clear chromate

| PART NUMBER |
|---|
| D7-275-203-040 |

The ejecting assembly locks into the receptacle with a push on the stud. The eject spring provides locking tension that allows greater material thickness tolerance. A quarter turn releases the assembly. The ejecting stud assembly has a reduced gap between panel and support and can be used with either the square hole or lateral tolerance receptacles.

**Material & Finish**

Material: Case hardened steel with zinc plate with black or bright chrome
Cup: Black thermoplastic
Spring: Stainless steel
Retainer: Acetal copolymer

| Panel Thickness | PART NUMBERS | |
|---|---|---|
| | Black | Bright |
| .020" - .120" | D7-290-718-191 | D7-290-718-190 |
| .100" - .200" | D7-290-720-191 | D7-290-720-190 |

## NYLATCH® 1/4 TURN FASTENER

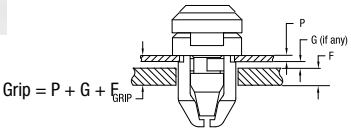
NON-CORROSIVE

- **Economical choice - low installed cost.**
- **Slotted or wing head option.**
- **Non-corrosive, non-conductive.**



### Fastener Length Selection

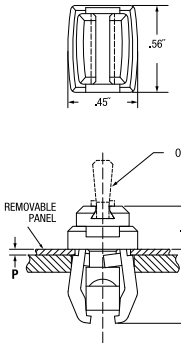
1. Calculate the Grip of your application. Grip is comprised of the removable panel thickness (P), support panel thickness (F) and any gap (G) caused panel lip, washer or gasket used between panels; see Figure 1.



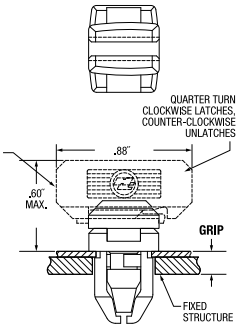

### Material & Color

Polycarbonate or Polysulfane:
Black, White or Natural
UL94-V2 rated

**Latched Position**




**Unlatched Position**




### Length Selection

| Grip | P Max. | Length | L Max. |
|---|---|---|---|
| .059″ to .148″ | .042″ | -1 | .50″ |
| .076″ to .165″ | .057″ | -2 | .51″ |
| .118″ to .207″ | .098″ | -3 | .55″ |
| .182″ to .271″ | .162″ | -4 | .62″ |

**Nylatch Quarter-Turn Part Numbers:**

**NY-N6-XX-YY**

- **Material & Color**
  - -20 = Black Polycarbonate
  - -10 = White Polycarbonate
  - -30 = Black Polysulfone
  - -31 = Natural Polysulfone
- **Length (See chart above)**
- **Basic Part Number**

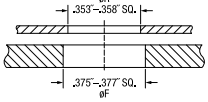
**Optional Wing Handle for N6 Fasteners:**

**NY-H6-YY**

- **Color - Use selection codes listed for NY-N6, above.**
- **Basic Part Number**

### Panel Preparation

For the Nylatch Quarter-Turn Panel Fastener, panel prep involves the stamping of a square hole in both the removable and support panels. The hole in the removable panel (øR) is slightly smaller than the one in the support panel (øF) to allow for fastener captivation.

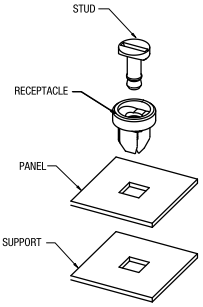



## ARROW 1/4 TURN FASTENER

NON-CORROSIVE

- **3 head styles.**
- **Prongs expand 4 directions.**
- **Non-corrosive, non-conductive.**





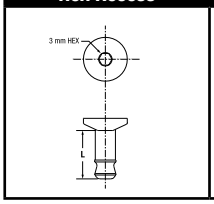
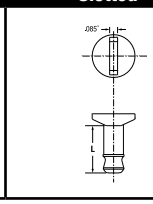
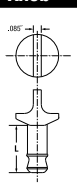

### Material & Color

Material: Acetal copolymer resin
Color: Black

### Fastener Selection

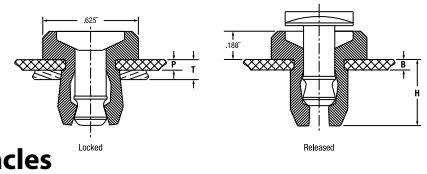
1. Choose the receptacle that fits your panel thickness "P".
2. Verify that the combined thickness of your panel and support "T" is within listed limits.
3. Choose a stud head style. Then select the part number, tabulated at bottom right, which corresponds to either the 200 or 201 series receptacle selected.

### Studs

| Hex Recess | Slotted | Knob |
|---|---|---|
|  |  |  |



| For Use With Receptacle Series | Head Style | L Dimension | Stud Part Number |
|---|---|---|---|
| 200 | Hex | .50″ | D7-200-701-010 |
| | Slotted | .50″ | D7-200-711-010 |
| | Knob | .50″ | D7-200-721-010 |
| 201 | Hex | .55″ | D7-201-701-010 |
| | Slotted | .55″ | D7-201-711-010 |
| | Knob | .55″ | D7-201-721-010 |




### Receptacles

| Panel Thickness P | Panel Plus Support T | Receptacle Undercut B | Length Under Head H | Receptacle Part Number |
|---|---|---|---|---|
| .020″ to .070″ | .080″ to .200″ | .070″ | .48″ | D7-200-802-010 |
| .071″ to .125″ | .135″ to .250″ | .125″ | .54″ | D7-201-802-010 |

### Panel Preparation

Top Panel: .360″ SQ. +.005″.
Bottom Panel: .375″ SQ. +.005″.

### Installation Procedure

Arrow studs and receptacles are packed separately. The receptacle is easily snapped into a square hole from the front panel and becomes self-retained. The stud is then pushed into the receptacle until it snaps in place.

# QUICK ACCESS FASTENERS
## FAST-LEAD CAPTIVE SCREWS

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

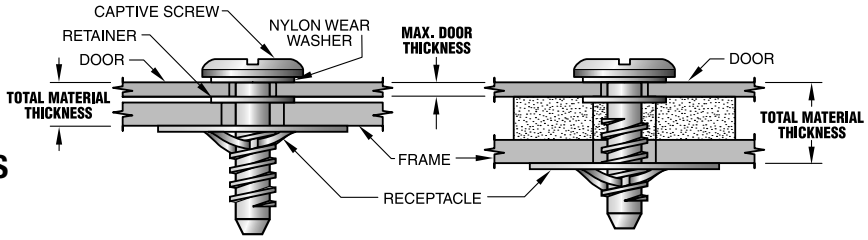
- Product configurator at www.clancey.com

## HOW TO SELECT FAST-LEAD CAPTIVE SCREWS – ALL SIZES

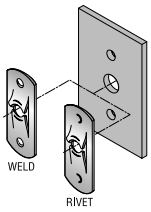
1. Choose a size: Small (09), Medium (12), or Large (17).
2. Determine panel configuration with dimensions.

_____ DOOR THICKNESS

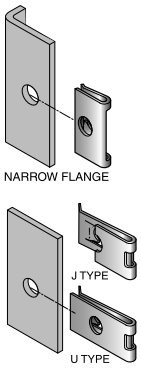
_____ TOTAL MATERIAL THICKNESS



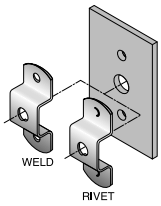

3. Choose a receptacle. Note: availability of styles differs with size (See pages 200, 202, 204)




**FLAT TYPE**
- Small envelope
- Available either rivet type or weld type
- Anywhere in frame



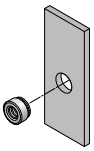

**CLIP-ON TYPE**
- Simple installation
- Ideal for near edge mounting




**SADDLE TYPE**
- Permits multiple screw assemblies on the same door while allowing one screw to fully retract from receptacle
- Rivet or weld type

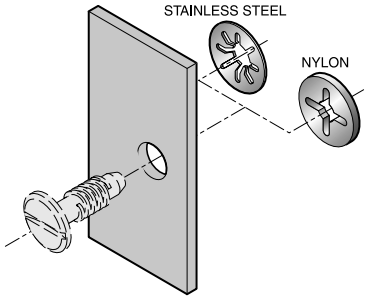


**SIDE-MOUNT TYPE**
- Permits mounting to plane surface perpendicular to door surface



**PRESS-IN TYPE**
- Simple installation
- Small envelope
- For metal panels only

4. Choose a retainer. (See pages 200, 202, 204)




5. Determine constant.

| Screw size | Retainer type | RECEPTACLE TYPE | | | | |
|---|---|---|---|---|---|---|
| | | Flat | Clip | Saddle | Side | Press-in |
| 09 (Small) | Stainless | .30 (.012) | 1.0 (.032) | 4.5 (.177) | — | -1.3 (-.050) |
| | Nylon | 1.1 (.043) | 1.6 (.063) | 5.3 (.208) | — | -0.5 (-.020) |
| 12 (Med.) | Stainless | .38 (.015) | 1.1 (.045) | 4 (.156) | 1.5 (.060) | -1.3 (-.050) |
| | Nylon | 1.4 (.054) | 2.0 (.079) | 5.31 (.210) | 1.5 (.060) | -0.5 (-.020) |
| 17 (Large) | Stainless | .38 (.015) | 2.2 (.086) | — | 1.5 (.060) | — |
| | Nylon | 1.9 (.076) | 3.5 (.137) | — | 1.5 (.060) | — |

6. Add constant to total material thickness from above.

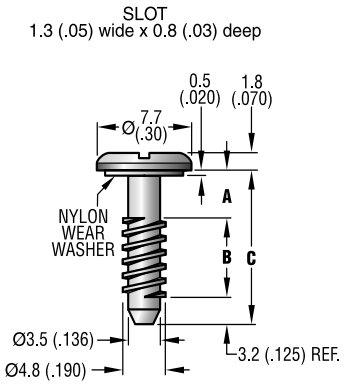
_____ + _____ = _____ ENTER IN COLUMN I

7. Check your outer panel door thickness. (Must not exceed amount in column II)
8. Choose your head style and finish.
9. Order 3 parts: screw, retainer and receptacle.
10. Order installation tools (recommended).

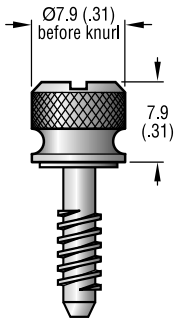
- **Product configurator at www.clancey.com.**
- **For limited space applications.**
- **Four head styles.**
- **Four receptacle styles.**
- **Vibration resistant.**

## FAST-LEAD CAPTIVE SCREWS, SMALL SIZE

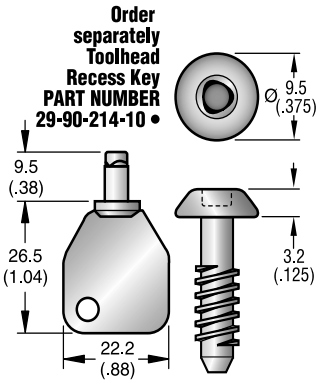
STAINLESS AVAILABLE



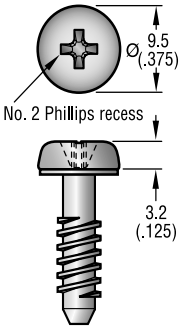

SLOTTED HEAD




KNURLED HEAD




TOOLHEAD RECESS




PHILLIPS RECESS

| COL. I | | COL. II | SCREW ASSEMBLY PART NUMBERS | | | | DIMENSIONS | | |
|---|---|---|---|---|---|---|---|---|---|
| Range of total thickness to be fastened | | MAX. thickness of outer panel | Low carbon steel, case hardened, zinc plate, chromate plus sealer | | | | A | B (For full screw retraction, "B" must be less than inner panel thickness plus receptacle height) | C |
| MIN. | MAX. | | SLOTTED | KNURLED | TOOLHEAD RECESS | PHILLIPS | | | |
| 1.3 (.050) | 3.2 (.125) | 0.9 (.035) | 09-11-102-11 | 09-13-102-11 | 09-T-102 | 09-P-102 | 2.5 (.100) | 5 (.197) | 10.7 (.422) |
| 2.5 (.100) | 3.2 (.125) | 2.2 (.085) | 09-11-103-11 | 09-13-103-11 | 09-T-103 | 09-P-103 | 3.8 (.150) | 3.7 (.147) | |
| 1.3 (.050) | 6.4 (.250) | 0.9 (.035) | 09-11-202-11 | 09-13-202-11 | 09-T-202 | 09-P-202 | 2.5 (.100) | 8.2 (.322) | 13.9 (.547) |
| 2.5 (.100) | 6.4 (.250) | 2.2 (.085) | 09-11-203-11 | 09-13-203-11 | 09-T-203 | 09-P-203 | 3.8 (.150) | 6.9 (.272) | |
| 3.8 (.150) | 6.4 (.250) | 3.4 (.135) | 09-11-204-11 | 09-13-204-11 | 09-T-204 | 09-P-204 | 5.1 (.200) | 5.6 (.222) | |
| 5.1 (.200) | 6.4 (.250) | 4.7 (.185) | 09-11-205-11 | 09-13-205-11 | 09-T-205 | 09-P-205 | 6.4 (.250) | 4.4 (.172) | |
| 1.3 (.050) | 9.5 (.375) | 0.9 (.035) | 09-11-302-11 | 09-13-302-11 | 09-T-302 | 09-P-302 | 2.5 (.100) | 11.4 (.447) | 17.1 (.672) |
| 2.5 (.100) | 9.5 (.375) | 2.2 (.085) | 09-11-303-11 | 09-13-303-11 | 09-T-303 | 09-P-303 | 3.8 (.150) | 10.1 (.397) | |
| 3.8 (.150) | 9.5 (.375) | 3.4 (.135) | 09-11-304-11 | 09-13-304-11 | 09-T-304 | 09-P-304 | 5.1 (.200) | 8.8 (.347) | |
| 5.1 (.200) | 9.5 (.375) | 4.7 (.185) | 09-11-305-11 | 09-13-305-11 | 09-T-305 | 09-P-305 | 6.4 (.250) | 7.3 (.297) | |
| 7.6 (.300) | 9.5 (.375) | 7.2 (.285) | 09-11-307-11 | 09-13-307-11 | 09-T-307 | 09-P-307 | 8.9 (.350) | 5 (.197) | |

For stainless steel screw (slotted, and knurled ONLY): Replace last 2 digits of part number with "26". Example: 09-11-102-**26**
Longer screws and black finish available. Please call for information.

**Try this part in your application Please call for samples.**

**800-747-7405**

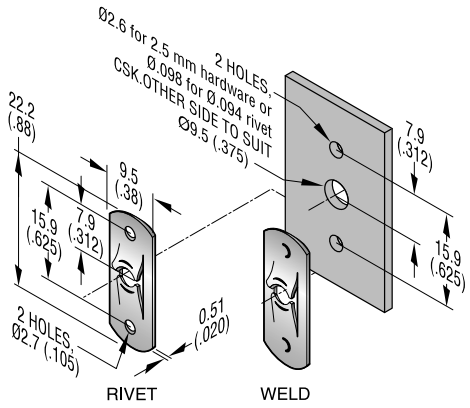
CAD POWERED
southco® AUTHORIZED DISTRIBUTOR

## FAST-LEAD CAPTIVE SCREWS, RECEPTACLES, SMALL SIZE

- 4 styles, 5 mounting options.
- Stainless steel options.

STAINLESS STEEL AVAILABLE

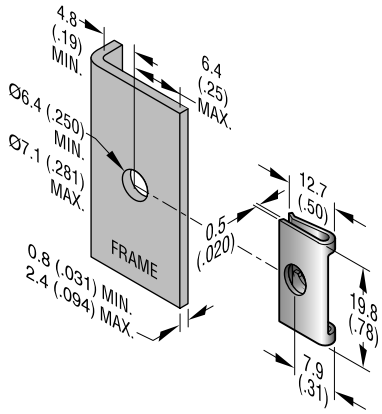
### FLAT TYPE



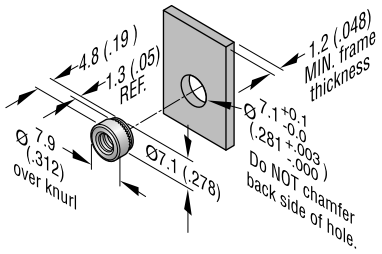

| FLAT RECEPTACLE PART NUMBERS | | |
|---|---|---|
| TYPE | MATERIAL AND FINISH | PART NUMBERS |
| RIVET | Spring steel, DACROSEALED† | 09-41-101-11 |
| | 302 Stainless steel, passivated | 09-41-101-24 |
| WELD | 302 Stainless steel, passivated | 09-41-103-24 |

| CLIP-ON RECEPTACLE PART NUMBERS | |
|---|---|
| MATERIAL AND FINISH | PART NUMBERS |
| Spring steel, DACROSEALED† | 09-43-101-11 |
| 17-7PH Stainless steel, passivated | 09-43-101-24 |

### CLIP-ON

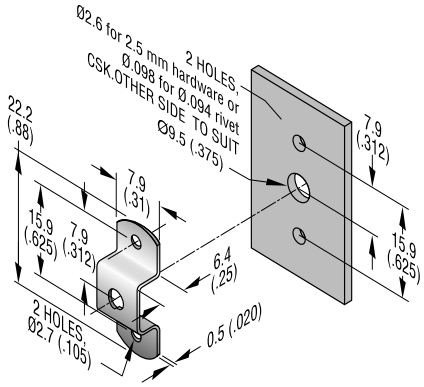



### PRESS-IN




| PRESS-IN RECEPTACLE PART NUMBER |
|---|
| Low carbon steel, case hardened and zinc plate, chromate plus sealer. |
| 09-44-101-11 |

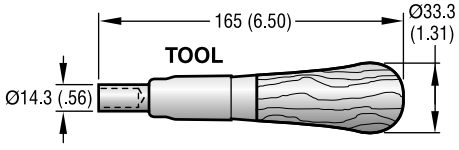
### SADDLE TYPE

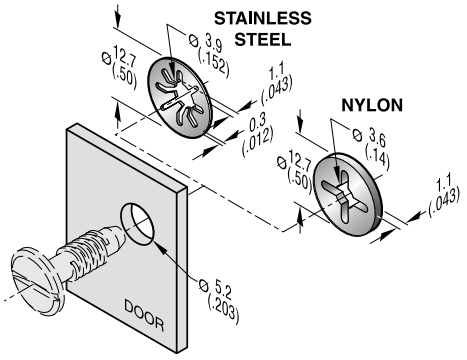



| SADDLE-TYPE RECEPTACLE PART NUMBERS | |
|---|---|
| MATERIAL AND FINISH | PART NUMBERS |
| Spring steel, DACROSEALED† | 09-42-101-11 |
| 17-7PH Stainless steel, passivated | 09-42-101-24 |

## RETAINERS, SMALL SIZE

| RETAINER PART NUMBERS | | TOOL PART NUMBER |
|---|---|---|
| 302 Stainless steel, passivated | Nylon, black | |
| 09-6-1 | 09-49-102-42 | 12-0-20980-11 |

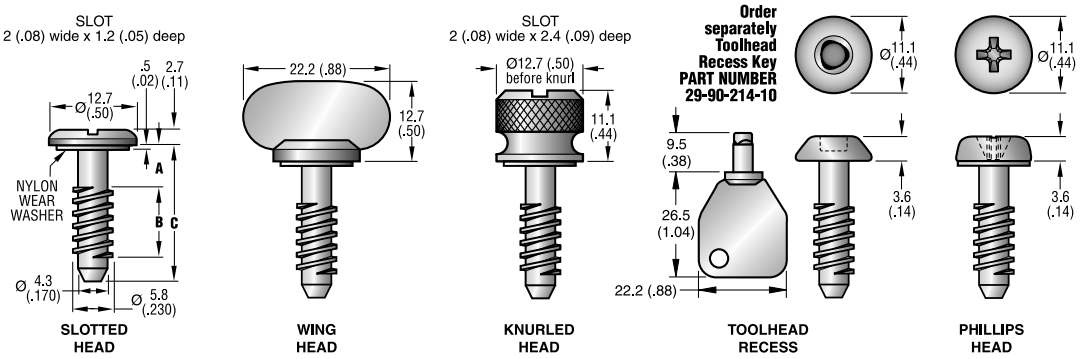


- **Product configurator at www.clancey.com.**
- **Widest range of configurations.**
- **Five head styles.**
- **Five receptacle styles.**
- **Vibration resistant.**

## FAST-LEAD CAPTIVE SCREWS, MEDIUM SIZE

STAINLESS STEEL AVAILABLE




| COL. I | | COL. II | SCREW ASSEMBLY PART NUMBERS | | | | | DIMENSIONS | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Range of total thickness to be fastened | | MAX. thickness of outer panel | Low carbon steel, case hardened, zinc plate, chromate plus sealer | | | | | A | B (For full screw retraction, "B" must be less than inner panel thickness plus receptacle height) | C |
| MIN. | MAX. | | SLOTTED | WING | KNURLED | TOOLHEAD RECESS | PHILLIPS | | | |
| 1.3 (.050) | 3.2 (.125) | 0.6 (.025) | 12-11-102-11 | 12-12-102-11 | 12-13-102-11 | 12-T-102 | 12-P-102 | 2.5 (.100) | 5.8 (.228) | 12.3 (.486) |
| 2.5 (.100) | 3.2 (.125) | 1.9 (.075) | 12-11-103-11 | 12-12-103-11 | 12-13-103-11 | 12-T-103 | 12-P-103 | 3.8 (.150) | 4.5 (.178) | |
| 1.3 (.050) | 6.4 (.250) | 0.6 (.025) | 12-11-202-11 | 12-12-202-11 | 12-13-202-11 | 12-T-202 | 12-P-202 | 2.5 (.100) | 9 (.353) | 15.5 (.611) |
| 2.5 (.100) | 6.4 (.250) | 1.9 (.075) | 12-11-203-11 | 12-12-203-11 | 12-13-203-11 | 12-T-203 | 12-P-203 | 3.8 (.150) | 7.7 (.303) | |
| 3.8 (.150) | 6.4 (.250) | 3.2 (.125) | 12-11-204-11 | 12-12-204-11 | 12-13-204-11 | 12-T-204 | 12-P-204 | 5.1 (.200) | 6.4 (.253) | |
| 5.1 (.200) | 6.4 (.250) | 4.5 (.175) | 12-11-205-11 | 12-12-205-11 | 12-13-205-11 | 12-T-205 | 12-P-205 | 6.4 (.250) | 5.2 (.203) | |
| 1.3 (.050) | 9.5 (.375) | 0.6 (.025) | 12-11-302-11 | 12-12-302-11 | 12-13-302-11 | 12-T-302 | 12-P-302 | 2.5 (.100) | 12.1 (.478) | 18.7 (.736) |
| 2.5 (.100) | 9.5 (.375) | 1.9 (.075) | 12-11-303-11 | 12-12-303-11 | 12-13-303-11 | 12-T-303 | 12-P-303 | 3.8 (.150) | 10.9 (.428) | |
| 3.8 (.150) | 9.5 (.375) | 3.2 (.125) | 12-11-304-11 | 12-12-304-11 | 12-13-304-11 | 12-T-304 | 12-P-304 | 5.1 (.200) | 9.6 (.378) | |
| 5.1 (.200) | 9.5 (.375) | 4.5 (.175) | 12-11-305-11 | 12-12-305-11 | 12-13-305-11 | 12-T-305 | 12-P-305 | 6.4 (.250) | 8.3 (.328) | |
| 7.6 (.300) | 9.5 (.375) | 7 (.275) | 12-11-307-11 | 12-12-307-11 | 12-13-307-11 | 12-T-307 | 12-P-307 | 8.9 (.350) | 5.8 (.228) | |
| 2.5 (.100) | 12.7 (.500) | 1.9 (.075) | 12-11-403-11 | 12-12-403-11 | 12-13-403-11 | 12-T-403 | 12-P-403 | 3.8 (.150) | 14.1 (.553) | 21.9 (.861) |
| 3.8 (.150) | 12.7 (.500) | 3.2 (.125) | 12-11-404-11 | 12-12-404-11 | 12-13-404-11 | 12-T-404 | 12-P-404 | 5.1 (.200) | 12.8 (.503) | |
| 5.1 (.200) | 12.7 (.500) | 4.5 (.175) | 12-11-405-11 | 12-12-405-11 | 12-13-405-11 | 12-T-405 | 12-P-405 | 6.4 (.250) | 11.5 (.453) | |
| 7.6 (.300) | 12.7 (.500) | 7 (.275) | 12-11-407-11 | 12-12-407-11 | 12-13-407-11 | 12-T-407 | 12-P-407 | 8.9 (.350) | 9 (.353) | |
| 10.2 (.400) | 12.7 (.500) | 9.5 (.375) | 12-11-409-11 | 12-12-409-11 | 12-13-409-11 | 12-T-409 | 12-P-409 | 11.4 (.450) | 6.4 (.253) | |
| 2.5 (.100) | 15.9 (.625) | 1.9 (.075) | 12-11-503-11 | 12-12-503-11 | 12-13-503-11 | 12-T-503 | 12-P-503 | 3.8 (.150) | 17.2 (.678) | 25 (.986) |
| 3.8 (.150) | 15.9 (.625) | 3.2 (.125) | 12-11-504-11 | 12-12-504-11 | 12-13-504-11 | 12-T-504 | 12-P-504 | 5.1 (.200) | 16 (.628) | |
| 5.1 (.200) | 15.9 (.625) | 4.5 (.175) | 12-11-505-11 | 12-12-505-11 | 12-13-505-11 | 12-T-505 | 12-P-505 | 6.4 (.250) | 14.7 (.578) | |
| 7.6 (.300) | 15.9 (.625) | 7 (.275) | 12-11-507-11 | 12-12-507-11 | 12-13-507-11 | 12-T-507 | 12-P-507 | 8.9 (.350) | 12.1 (.478) | |
| 10.2 (.400) | 15.9 (.625) | 9.5 (.375) | 12-11-509-11 | 12-12-509-11 | 12-13-509-11 | 12-T-509 | 12-P-509 | 11.4 (.450) | 9.6 (.378) | |
| 12.7 (.500) | 15.9 (.625) | 12.1 (.475) | 12-11-511-11 | 12-12-511-11 | 12-13-511-11 | 12-T-511 | 12-P-511 | 14 (.550) | 7.1 (.278) | |
| 2.5 (.100) | 19.1 (.750) | 1.9 (.075) | 12-11-603-11 | 12-12-603-11 | 12-13-603-11 | 12-T-603 | 12-P-603 | 3.8 (.150) | 20.4 (.803) | 28.2 (1.111) |
| 3.8 (.150) | 19.1 (.750) | 3.2 (.125) | 12-11-604-11 | 12-12-604-11 | 12-13-604-11 | 12-T-604 | 12-P-604 | 5.1 (.200) | 19.1 (.753) | |
| 5.1 (.200) | 19.1 (.750) | 4.5 (.175) | 12-11-605-11 | 12-12-605-11 | 12-13-605-11 | 12-T-605 | 12-P-605 | 6.4 (.250) | 17.9 (.703) | |
| 7.6 (.300) | 19.1 (.750) | 7 (.275) | 12-11-607-11 | 12-12-607-11 | 12-13-607-11 | 12-T-607 | 12-P-607 | 8.9 (.350) | 15.3 (.603) | |
| 10.2 (.400) | 19.1 (.750) | 9.5 (.375) | 12-11-609-11 | 12-12-609-11 | 12-13-609-11 | 12-T-609 | 12-P-609 | 11.4 (.450) | 12.8 (.503) | |
| 12.7 (.500) | 19.1 (.750) | 12.1 (.475) | 12-11-611-11 | 12-12-611-11 | 12-13-611-11 | 12-T-611 | 12-P-611 | 14 (.550) | 10.2 (.403) | |
| 15.3 (.600) | 19.1 (.750) | 14.6 (.575) | 12-11-613-11 | 12-12-613-11 | 12-13-613-11 | 12-T-613 | 12-P-613 | 16.5 (.650) | 7.7 (.303) | |
| 17.8 (.700) | 19.1 (.750) | 17.2 (.675) | 12-11-615-11 | 12-12-615-11 | 12-13-615-11 | 12-T-615 | 12-P-615 | 19.1 (.750) | 5.2 (.203) | |

Slotted, wing and knurled headstyles are available in stainless steel.
Longer screws and black finish available. Please call for information.

**Try this part in your application Please call for samples.**

**800-747-7405**

CAD POWERED

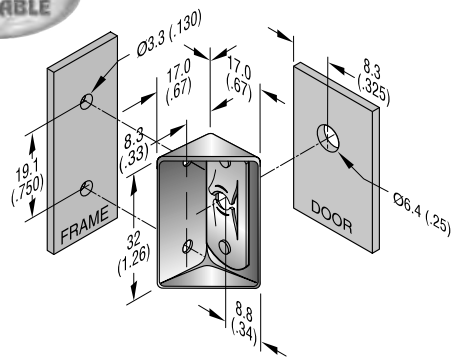
southco® AUTHORIZED DISTRIBUTOR

## FAST-LEAD CAPTIVE SCREWS, RECEPTACLES, MEDIUM SIZE

- 5 styles, 9 mounting options.
- Stainless steel options.

STAINLESS STEEL AVAILABLE

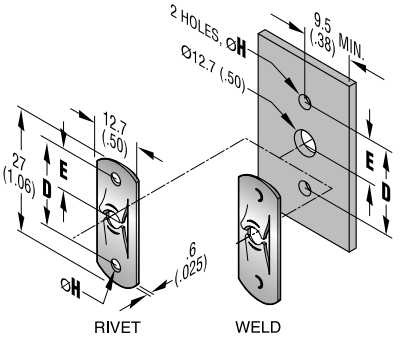
### SIDE MOUNT



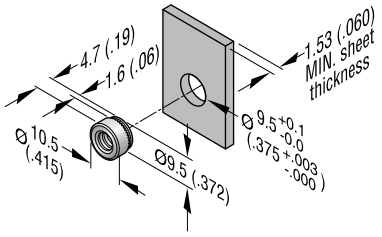

| SIDE MOUNT RECEPTACLE PART NUMBER |
|---|
| Receptical: Steel, dacrotized † Bracket: Steel, zinc plate, Rivet: Aluminum |
| 12-90-101-10 |

| FLAT RECEPTACLE PART NUMBERS | | | | | |
|---|---|---|---|---|---|
| TYPE | MATERIAL AND FINISH | D | E | ØH | PART NUMBERS |
| RIVET | 1064 Steel, DACROSEALED† | 19.1 (.750) | 9.5 (.375) | 2.7 (.105) | 12-11015-13 |
| | | 19.1 (.750) | 9.5 (.375) | 3.4 (.135) | 12-11020-11 |
| | 302 Stainless steel, passivated | 19.1 (.750) | 9.5 (.375) | 2.7 (.105) | 12-11015-14 |
| | | 19.1 (.750) | 9.5 (.375) | 3.4 (.135) | 12-11020-13 |
| WELD | | — | — | — | 12-11016-11 |

### FLAT TYPE



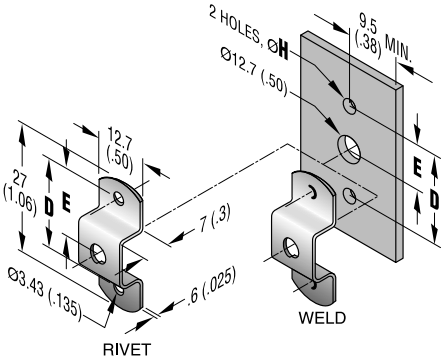

### PRESS-IN



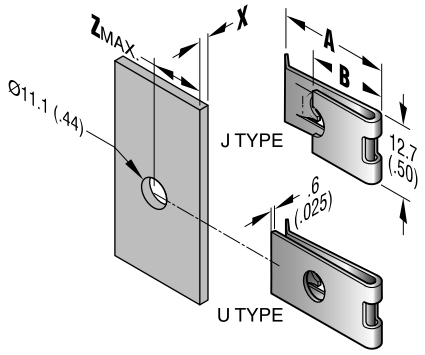

| PRESS-IN RECEPTACLE PART NUMBER |
|---|
| Low carbon steel, case hardened and zinc plate, chromate plus sealer. |
| 12-44-101-11 |

| SADDLE RECEPTACLE PART NUMBERS | | | | | |
|---|---|---|---|---|---|
| TYPE | MATERIAL AND FINISH | D | E | ØH | PART NUMBERS |
| RIVET | 1070 Steel, DACROSEALED† | 19.1 (.750) | 9.5 (.375) | 3.4 (.135) | 12-11043-11 |
| | 302 Stainless steel, passivated | 19.1 (.750) | 9.5 (.375) | 3.4 (.135) | 12-11043-12 |
| WELD | | — | — | — | 12-11044-12 |

### SADDLE TYPE

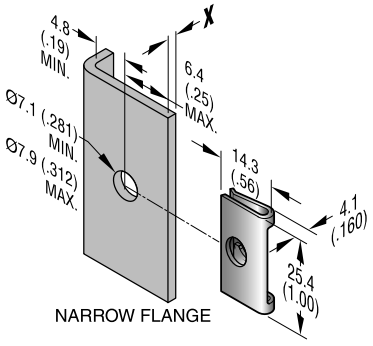



### CLIP-ON



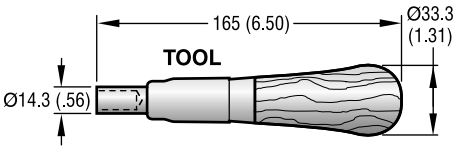

| CLIP-ON RECEPTACLE PART NUMBERS | | | | | | |
|---|---|---|---|---|---|---|
| TYPE | Material and Finish | X | A | B | Z max. | PART NUMBERS |
| J | 1064 Steel, DACRO-SEALED† | .8 (.031)-2.8 (.109) | 24.8 (.98) | 14.9 (.59) | 12.7 (.50) | 12-11025-11 |
| U | | .8 (.031)-2.8 (.109) | 25.9 (1.02) | 14.9 (.59) | 12.7 (.50) | 12-11017-11 |
| | | 2.8 (.109)-4.1 (.161) | 25.9 (1.02) | 14.9 (.59) | 11.9 (.47) | 12-11027-11 |
| | | 4.1 (.161)-5.5 (.213) | 24.8 (.98) | 14.9 (.59) | 11.1 (.44) | 12-11029-11 |
| | | 5.4 (.213)-6.7 (.265) | 24.5 (.97) | 13.4 (.53) | 11.1 (.44) | 12-11031-11 |
| | 17-7 PH Stainless steel, passivated | .8 (.031)-2.8 (.109) | 25.9 (1.02) | 14.9 (.59) | 12.7 (.50) | 12-11017-12 |
| | | 2.8 (.109)-4.1 (.161) | 25.9 (1.02) | 15.5 (.61) | 11.9 (.47) | 12-11027-12 |
| Narrow flange | 1064 Steel, DACRO-SEALED† | .8 (.031)-2.8 (.109) | — | — | 6.4 (.25) | 12-11050-27 |

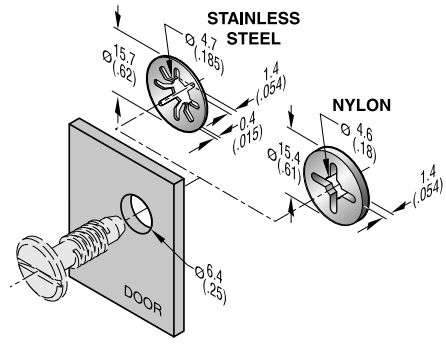
### CLIP-ON




## RETAINERS, MEDIUM SIZE

| RETAINER PART NUMBERS | | TOOL PART NUMBER |
|---|---|---|
| 304 Stainless steel, passivated | Nylon, black | |
| 12-6-1 | 12-11064-42 | 12-0-20980-11 |

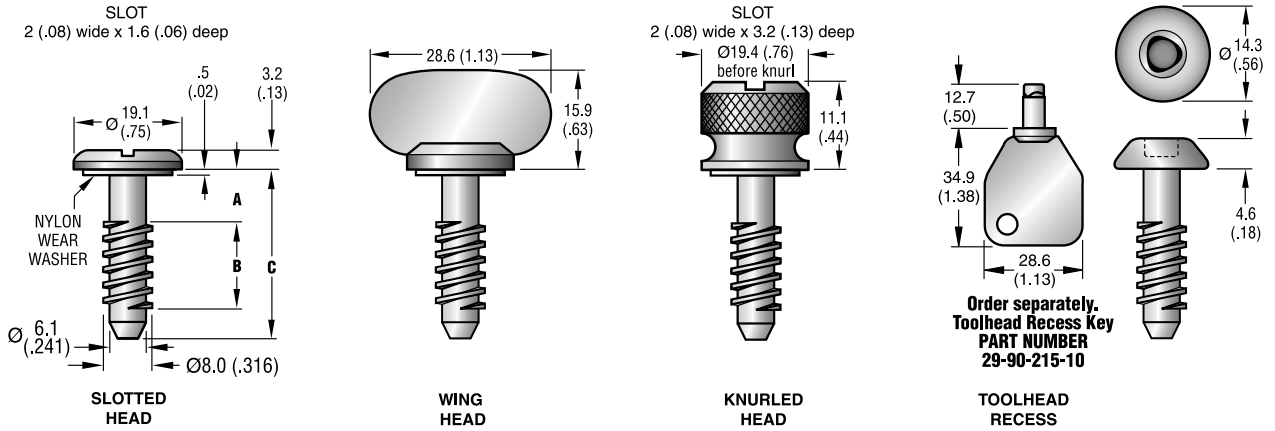


- **Product configurator at www.clancey.com.**
- **Robust assembly.**
- **Four head styles.**
- **Three receptacle styles.**
- **Vibration resistant.**

## FAST-LEAD CAPTIVE SCREWS, LARGE SIZE

STAINLESS STEEL AVAILABLE




| COL. I | | COL. II | SCREW ASSEMBLY PART NUMBERS | | | | DIMENSIONS | | |
|---|---|---|---|---|---|---|---|---|---|
| Range of total thickness to be fastened | | MAX. thickness of outer panel | Low carbon steel, case hardened, zinc plate,chromate plus sealer | | | | A | B | C |
| MIN. | MAX. | | SLOTTED | WING | KNURLED | TOOLHEAD RECESS | | | |
| 2.5 (.100) | 6.4 (.250) | 3.1 (.120) | 17-11-104-11 | 17-12-104-11 | 17-13-104-11 | 17-T-104 | 5.1 (.200) | 9.1 (.360) | 19.1 (.751) |
| 5.1 (.200) | 6.4 (.250) | 5.6 (.220) | 17-11-106-11 | 17-12-106-11 | 17-13-106-11 | 17-T-106 | 7.6 (.300) | 6.6 (.260) | |
| 2.5 (.100) | 9.5 (.375) | 3.1 (.120) | 17-11-204-11 | 17-12-204-11 | 17-13-204-11 | 17-T-204 | 5.1 (.200) | 12.3 (.485) | 22.3 (.876) |
| 5.1 (.200) | 9.5 (.375) | 5.6 (.220) | 17-11-206-11 | 17-12-206-11 | 17-13-206-11 | 17-T-206 | 7.6 (.300) | 9.8 (.385) | |
| 7.6 (.300) | 9.5 (.375) | 8.1 (.320) | 17-11-208-11 | 17-12-208-11 | 17-13-208-11 | 17-T-208 | 10.2 (.400) | 7.2 (.285) | |
| 2.5 (.100) | 12.7 (.500) | 3.1 (.120) | 17-11-304-11 | 17-12-304-11 | 17-13-304-11 | 17-T-304 | 5.1 (.200) | 15.5 (.610) | 25.4 (1.001) |
| 5.1 (.200) | 12.7 (.500) | 5.6 (.220) | 17-11-306-11 | 17-12-306-11 | 17-13-306-11 | 17-T-306 | 7.6 (.300) | 13 (.510) | |
| 7.6 (.300) | 12.7 (.500) | 8.1 (.320) | 17-11-308-11 | 17-12-308-11 | 17-13-308-11 | 17-T-308 | 10.2 (.400) | 10.4 (.410) | |
| 10.2 (.400) | 12.7 (.500) | 10.7 (.420) | 17-11-310-11 | 17-12-310-11 | 17-13-310-11 | 17-T-310 | 12.7 (.500) | 7.9 (.310) | |
| 2.5 (.100) | 15.9 (.625) | 3.1 (.120) | 17-11-404-11 | 17-12-404-11 | 17-13-404-11 | 17-T-404 | 5.1 (.200) | 18.7 (.735) | 28.6 (1.126) |
| 5.1 (.200) | 15.9 (.625) | 5.6 (.220) | 17-11-406-11 | 17-12-406-11 | 17-13-406-11 | 17-T-406 | 7.6 (.300) | 16.1 (.635) | |
| 7.6 (.300) | 15.9 (.625) | 8.1 (.320) | 17-11-408-11 | 17-12-408-11 | 17-13-408-11 | 17-T-408 | 10.2 (.400) | 13.6 (.535) | |
| 10.2 (.400) | 15.9 (.625) | 10.7 (.420) | 17-11-410-11 | 17-12-410-11 | 17-13-410-11 | 17-T-410 | 12.7 (.500) | 11.1 (.435) | |
| 12.7 (.500) | 15.9 (.625) | 13.2 (.520) | 17-11-412-11 | 17-12-412-11 | 17-13-412-11 | 17-T-412 | 15.2 (.600) | 8.5 (.335) | |
| 15.2 (.600) | 15.9 (.625) | 15.8 (.620) | 17-11-414-11 | 17-12-414-11 | 17-13-414-11 | 17-T-414 | 17.8 (.700) | 6 (.235) | |

Slotted, wing and knurled headstyles are available in stainless steel. Please call for information.
Longer screws and black finish available. Please call for information.

**Try this part in your application Please call for samples.**
**800-747-7405**

**For detailed material specifications and product strength guidelines.**
**www.clancey.com**

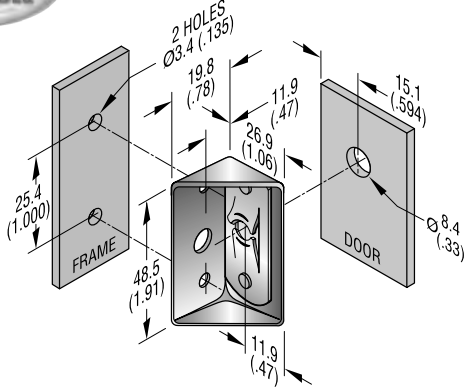
CAD POWERED
southco® AUTHORIZED DISTRIBUTOR

## FAST-LEAD CAPTIVE SCREWS, RECEPTACLES, LARGE SIZE

- 3 styles, 4 mounting options.
- Stainless steel options.

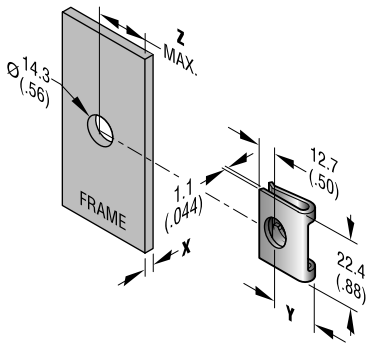
STAINLESS STEEL AVAILABLE

### SIDE MOUNT



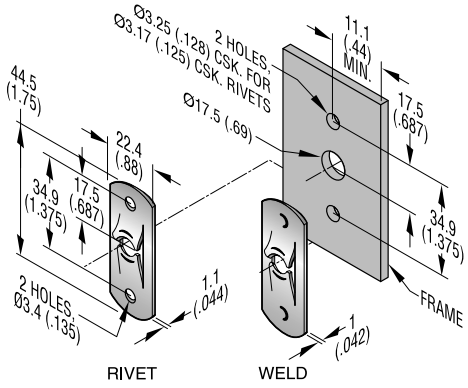

| SIDE MOUNT RECEPTACLE PART NUMBER |
|---|
| Receptacle: Steel, dacrotized † Bracket: Steel, zinc plate Rivet: Aluminum |
| **17-90-101-10** |

### CLIP-ON




| CLIP-ON RECEPTACLE PART NUMBERS | | | |
|---|---|---|---|
| THICKNESS **X** | **Y** | **Z** MAX. | **PART NUMBERS** |
| 1.1 (.045) – 2.4 (.093) | 15.7 (.62) | 15.0 (.59) | **17-10017-11** |
| 2.4 (.093) – 3.6 (.142) | 14.7 (.58) | 14.2 (.56) | **17-10027-11** |
| 3.6 (.142) – 4.9 (.191) | 13.7 (.54) | 14.2 (.56) | **17-10029-11** |
| 4.9 (.191) – 6.1 (.240) | 13.5 (.53) | 13.5 (.53) | **17-10031-11** |
| 6.1 (.240) – 7.3 (.289) | 13.0 (.51) | 12.7 (.50) | **17-10033-11** |

### FLAT TYPE

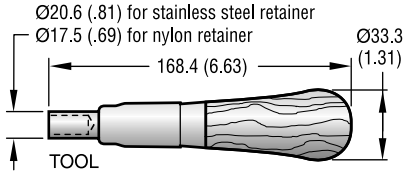


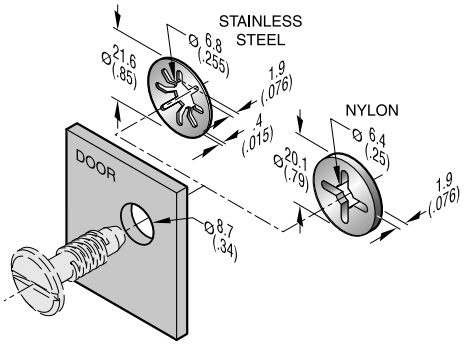

| FLAT RECEPTACLE PART NUMBERS | | |
|---|---|---|
| **TYPE** | **MATERIAL AND FINISH** | **PART NUMBERS** |
| RIVET | 1064 Steel, DACROSEALED† | **17-10015-13** |
| | 304 Stainless steel, passivated | **17-10015-14** |
| WELD | 304 Stainless steel, passivated | **17-10016-11** |

## RETAINERS LARGE SIZE

STAINLESS STEEL AVAILABLE

| RETAINER STYLE | RETAINER PART NUMBERS | TOOL PART NUMBERS |
|---|---|---|
| 302 Stainless steel, passivated | **17-6-1** | **17-0-24585-11** |
| Nylon, black | **17-10054-42** | **17-0-21333-11** |



# QUICK ACCESS FASTENERS
## SPRING LOADED PLUNGERS

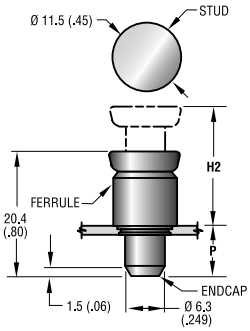
EXPANDED RANGE

- **Traditional bright or new overmolded "Prism" series head styles.**
- **Overmolded available in 5 standard colors with custom colors available.**
- **With or without hold open feature.**
- **Presses into panels from .060" - .150" thick.**

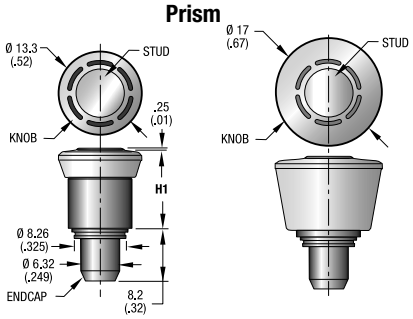
## PRESS-IN STYLE



**Bright**




**Prism**




**Add color in place of "-000" (see below)**

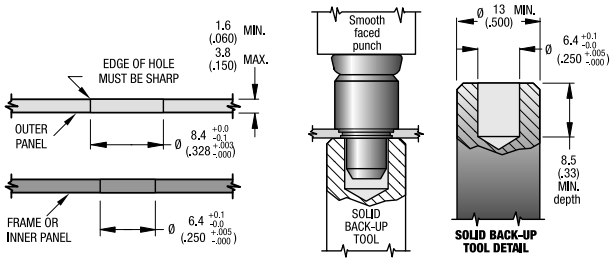
| Panel Thickness | | P | Knob Style | PART NUMBERS | | H1 Closed | H2 Open |
|---|---|---|---|---|---|---|---|
| | | | | Hold Open | Without Hold Open | | |
| Min. | Max. | | | | | | |
| 1.52 (.06) | 3.81 (0.15) | 8.2 (0.32) | Bright | **56-61-15** | **56-60-15** | 12.2 (.48) | 19.3 (.76) |
| | | | Color - Small | **56-161-000** | **56-160-000** | 13 (.51) | 20 (.79) |
| | | | Color - Large | **56-261-000** | **56-260-000** | 13 (.51) | 20 (.79) |

000 -008 -012 -013 -014

BLACK BLUE PURPLE RED GREEN

**To see these colors - visit www.clancey.com**

### Panel Preparation and Installation

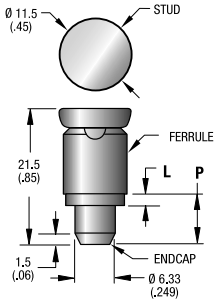



## FLARE-IN STYLE

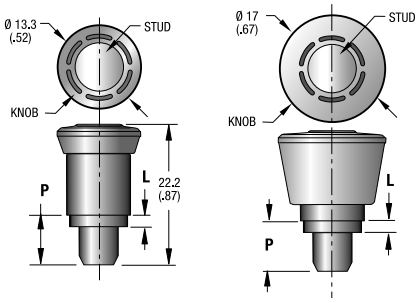


- **For panels .060" - .185" thick.**

**Bright**



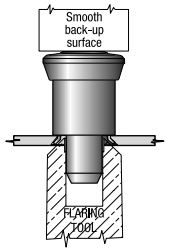

**Prism**




**Add color in place of "-000" (see above)**

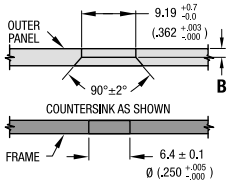
| Outer Panel Thickness | | P | Knob Style | PART NUMBERS | | H1 Closed | H2 Open | B | L |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Hold Open | Without Hold Open | | | | |
| Min. | Max. | | | | | | | | |
| 1.52 (.06) | 3.17 (.125) | 7.9 (.31) | Bright | **56-71-1-15** | **56-70-1-15** | 13.7 (.54) | 19.8 (.78) | 0.41 (.016) | 1.78 (.07") |
| | | | Color - Small | **56-171-1-000** | **56-170-1-000** | 14.5 (.57) | 20.5 (.81) | | |
| | | | Color - Large | **56-271-1-000** | **56-270-1-000** | 14.5 (.57) | 20.5 (.81) | | |
| 3.17 (.125) | 4.7 (.185) | 9.4 (.37) | Bright | **56-71-2-15** | **56-70-2-15** | 12.2 (.48) | 18.2 (.72) | 1.52 (.06) | 3.3 (.13) |
| | | | Color - Small | **56-171-2-000** | **56-170-2-000** | 12.9 (.51) | 19 (.75) | | |
| | | | Color - Large | **56-271-2-000** | **56-270-2-000** | 12.9 (.51) | 19 (.75) | | |

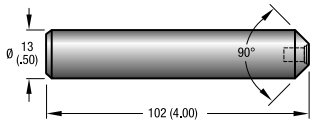
### Installation




| PART NUMBER |
|---|
| **56-7-TOOL** |

### Panel Preparation



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AUTHORIZED DISTRIBUTOR

## THREAD-IN STYLE

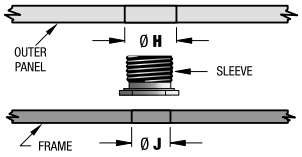
NSF



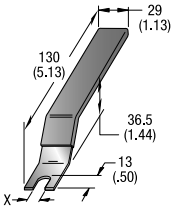
- Large knob with positive purchase.
- Two sizes.
- Easy installation – no press required.
- For panels .025" - .125" thick.

For detailed material specifications and product strength guidelines.
**www.clancey.com**

### Panel Preparation and Installation

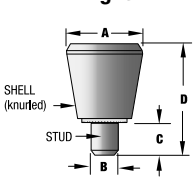


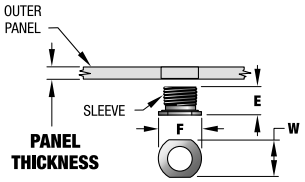

### Installation Tool




| Series | Installation | | | | Sleeve Thread Size | TOOL PART NUMBER | X (Tool) |
|---|---|---|---|---|---|---|---|
| | Panel Thickness | | Ø H ±0.08 (±0.03) | Ø J +0.08 -0.03 (+.003 -.001) | | | |
| | MIN. | MAX. | | | | | |
| 300 | 0.64 (.025) | 1.52 (0.60) | 7.14 (.281) | 4.78 (.250) | M7 X 1 | 56-0-22041-03 | 7.1 (.28) |
| 400 | 0.79 (0.31) | 3.18 (.125) | 9.12 (.359) | 6.35 (.250) | M9 X 1 | 56-0-22041-04 | 9.5 (.38) |

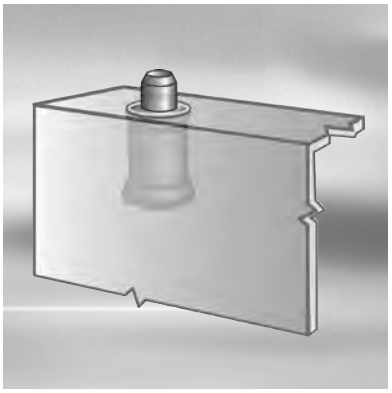
### Bright



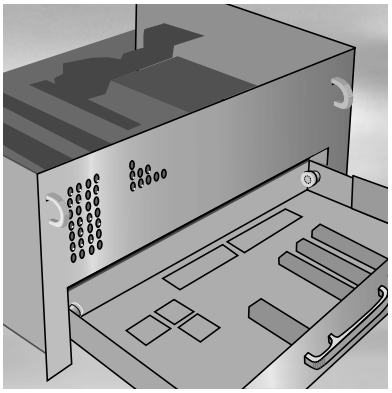




| Series | Dimensions | | | | | | | PART NUMBERS | |
|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | W | With hold-open feature | Without hold-open feature |
| 300 | 13.5 (.53) | 4.7 (.183) | 6.5 (.25) | 20 (.78) | 6 (.22) | 9 (.34) | 7 (.28) | 56-10-301-20 | 56-99-196-20 |
| 400 | 17.5 (.69) | 6.3 (.245) | 8 (.31) | 26 (1.03) | 7 (.28) | 11.2 (.44) | 9.4 (.37) | 56-10-401-20 | 56-99-197-20 |

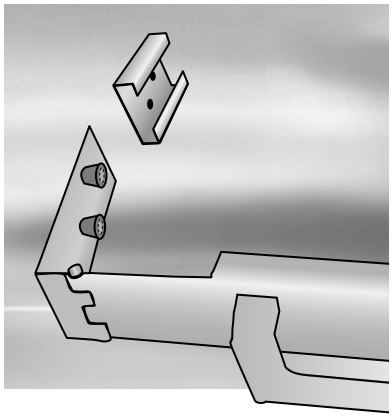
### Potential Applications:



Retractable Hinge



Positioning/Secondary Catch



Quick Installation

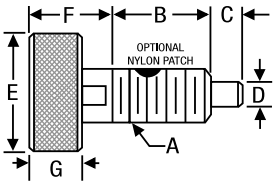
- **Knurled knob allows easy grip.**
- **Locking or non-locking models.**
- **Nylon patch option allows firm thread engagement.**
- **Also available in brass or 316 stainless (please call).**

## KNOB STYLE

STAINLESS STEEL AVAILABLE

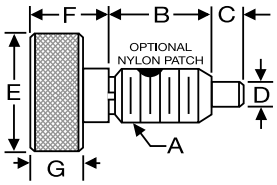
**Locking (Positive Hold Open)**






**Non-Locking (Automatic Return)**






| PART NUMBERS | | | | THREAD SIZE "A" | THREAD LENGTH "B" | NOSE LENGTH "C" | NOSE DIAMETER "D" | KNOB DIAMETER "E" | KNOB HUB LENGTH "F" | KNURLED WIDTH "G" |
|---|---|---|---|---|---|---|---|---|---|---|
| STEEL, YELLOW ZINC | | 303 STAINLESS | | | | | | | | |
| LOCKING | NON-LOCKING | LOCKING | NON-LOCKING | | | | | | | |
| **SLP-KL000** | **SLP-KNL00** | **SLP-KL005** | **SLP-KNL05** | 10 - 32 | .400" | .090" | .104" | .375" | .250" | .188" |
| **SLP-KL010** | **SLP-KNL10** | **SLP-KL015** | **SLP-KNL15** | 1/4 - 20 | .500" | .125" | .123" | .500" | .312" | .188" |
| **SLP-KL020** | **SLP-KNL20** | **SLP-KL025** | **SLP-KNL25** | 5/16 - 18 | .630" | .190" | .154" | .625" | .375" | .250" |
| **SLP-KL030** | **SLP-KNL30** | **SLP-KL035** | **SLP-KNL35** | 3/8 - 16 | .750" | .220" | .185" | .750" | .500" | ..312" |
| **SLP-KL040** | **SLP-KNL40** | **SLP-KL045** | **SLP-KNL45** | 1/2 - 13 | .875" | .250" | .248" | 1.00" | .625" | .375" |
| **SLP-KL050** | **SLP-KNL50** | **SLP-KL055** | **SLP-KNL55** | 5/8 - 11 | 1.00" | .325" | .312" | 1.25" | .750" | .438" |
| **SLP-KL060** | **SLP-KNL60** | **SLP-KL065** | **SLP-KNL65** | 3/4 - 10 | 1.20" | .450" | .375" | 1.50" | .813" | .500" |

**NOTE: Add "– NP" to the end of the part number for optional nylon patch.**

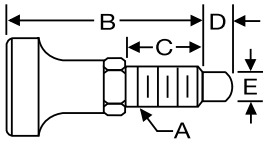
- **Clean delrin knob with tapered undercut for easy pull.**
- **Locking or non-locking models.**
- **Nylon patch option allows firm thread engagement.**

## DELRIN KNOB STYLE

CLEAN from CLANCEY

STAINLESS STEEL AVAILABLE

**Non-Locking**




**(Automatic Return)**

**Locking**



**(Positive Hold Open)**

| PART NUMBERS | | | | THREAD SIZE "A" | BODY LENGTH "B" | THREAD LENGTH "B" | NOSE LENGTH "C" | NOSE DIAMETER "D" |
|---|---|---|---|---|---|---|---|---|
| STEEL, BLACK OXIDE | | 303 STAINLESS | | | | | | |
| LOCKING | NON-LOCKING | LOCKING | NON-LOCKING | | | | | |
| **SLP-DKL20** | **SLP-DKN20** | **SLP-DKL25** | **SLP-DKN25** | 1/4 - 20 | .970" | .625" | .125" | .160" |
| **SLP-DKL30** | **SLP-DKN30** | **SLP-DKL35** | **SLP-DKN35** | 3/8 - 16 | 1.40" | .750" | .180" | .250" |
| **SLP-DKL50** | **SLP-DKN50** | **SLP-DKL55** | **SLP-DKN55** | 1/2 - 13 | 1.90" | 1.00" | .312" | .312" |

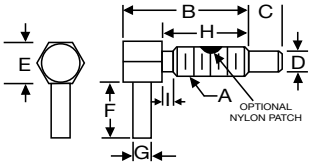
**NOTE: Add "– NP" to the end of the part number for optional nylon patch. (not illustrated)**

# QUICK ACCESS FASTENERS
## SPRING LOADED PLUNGERS

### L-HANDLE STYLE

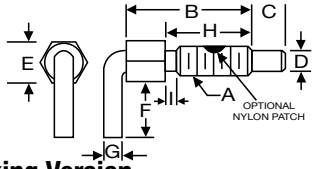
- **L-Handle can swing 360° in space restricted applications.**
- **Locking or non-locking.**
- **Also available in 316 stainless or with a nylon nose (please call).**






**Locking Version**






**Non-Locking Version**

| PART NUMBERS | | | | THREAD SIZE "A" | BODY LENGTH "B" | NOSE LENGTH "C" | NOSE DIAMETER "D" | HEX SIZE "E" | HANDLE LENGTH "F" | HANDLE DIAMETER "G" | THREAD LENGTH "H" | THREAD RELIEF "I" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STEEL, CLEAR ZINC | | 303 STAINLESS | | | | | | | | | | |
| LOCKING | NON-LOCKING | LOCKING | NON-LOCKING | | | | | | | | | |
| **SLP-LHL00** | **SLP-LHN00** | **SLP-LHL05** | **SLP-LHN05** | 1/4 - 20 | .750" | .200" | .160" | .250" | .400" | .090" | .500" | - |
| **SLP-LHL10** | **SLP-LHN10** | **SLP-LHL15** | **SLP-LHN15** | 1/4 - 20 | 1.25" | .375" | .160" | .250" | .500" | .090" | .800" | - |
| **SLP-LHL20** | **SLP-LHN20** | **SLP-LHL25** | **SLP-LHN25** | 3/8 - 16 | 1.13" | .300" | .250" | .375" | .563" | .140" | .750" | .125" |
| **SLP-LHL30** | **SLP-LHN30** | **SLP-LHL35** | **SLP-LHN35** | 3/8 - 16 | 2.00" | .563" | .250" | .375" | .750" | .140" | 1.31" | .125" |
| **SLP-LHL40** | **SLP-LHN40** | **SLP-LHL45** | **SLP-LHN45** | 1/2 - 13 | 1.50" | .400" | .312" | .500" | .750" | .187" | 1.00" | .125" |
| **SLP-LHL50** | **SLP-LHN50** | **SLP-LHL55** | **SLP-LHN55** | 1/2 - 13 | 2.11" | .750" | .312" | .500" | 1.00" | .187" | 1.25" | .125" |
| **SLP-LHL60** | **SLP-LHN60** | **SLP-LHL65** | **SLP-LHN65** | 5/8 - 11 | 1.88" | .500" | .375" | .625" | .875" | .187" | 1.25" | .125" |
| **SLP-LHL70** | **SLP-LHN70** | **SLP-LHL75** | **SLP-LHN75** | 5/8 - 11 | 3.05" | 1.00" | .375" | .625" | 1.00" | .187" | 2.00" | .125" |

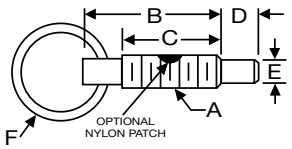
**NOTE: Add "– NP" to the end of the part number for optional nylon patch.**

### RING PULL STYLE

- **Economical and easy to use.**
- **Non-locking "stubby" version has compact body.**

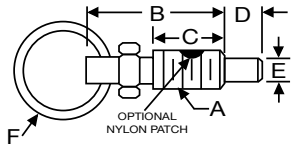
**Locking**






**Non-Locking**






**Locking version (Positive hold open)**

| PART NUMBERS | | THREAD SIZE "A" | BODY LENGTH "B" | THREAD LENGTH "C" | NOSE LENGTH "D" | NOSE DIAMETER "E" | RING DIAMETER "F" |
|---|---|---|---|---|---|---|---|
| STEEL, NICKEL PLATE | 303 STAINLESS | | | | | | |
| LOCKING | LOCKING | | | | | | |
| **SLP-RL250** | **SLP-RL255** | 1/4 - 20 | 1.14" | .800" | .250" | .155" | .875" |
| **SLP-RL380** | **SLP-RL385** | 3/8 - 16 | 1.68" | 1.20" | .375" | .233" | .875" |
| **SLP-RL500** | **SLP-RL505** | 1/2 - 13 | 2.00" | 1.40" | .500" | .312" | 1.00" |
| **SLP-RL580** | **SLP-RL585** | 5/8 - 11 | 3.35" | 2.27" | .550" | .312" | 1.25" |
| **SLP-RL750** | **SLP-RL755** | 3/4 - 10 | 4.06" | 2.69" | .650" | .430" | 1.38" |
| **SLP-RL100** | **SLP-RL105** | 1 - 8 | 4.63" | 3.25" | .900" | .680" | 1.38" |

**Non-locking version (Automatic return)**

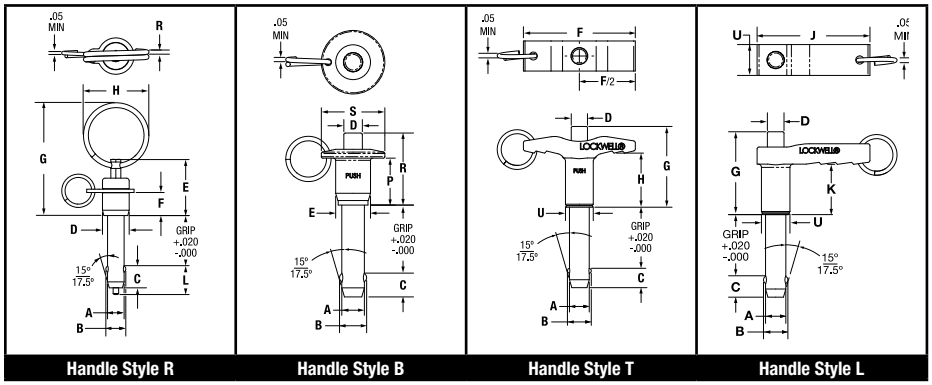
| PART NUMBERS | | THREAD SIZE "A" | BODY LENGTH "B" | THREAD LENGTH "C" | NOSE LENGTH "D" | NOSE DIAMETER "E" | RING DIAMETER "F" |
|---|---|---|---|---|---|---|---|
| STEEL, NICKEL PLATE | 303 STAINLESS | | | | | | |
| NON-LOCKING | NON-LOCKING | | | | | | |
| **SLP-RN250** | **SLP-RN255** | 1/4 - 20 | .570" | .312" | .190" | .160" | .750" |
| **SLP-RN380** | **SLP-RN385** | 3/8 - 16 | .820" | .440" | .280" | .250" | .750" |
| **SLP-RN500** | **SLP-RN505** | 1/2 - 13 | 1.06" | .563" | .375" | .310" | 1.00" |
| **SLP-RN580** | **SLP-RN585** | 5/8 - 11 | 1.31" | .690" | .440" | .380" | 1.00" |
| **SLP-RN750** | **SLP-RN755** | 3/4 - 10 | 1.50" | .875" | .500" | .437" | 1.13" |
| **SLP-RN100** | **SLP-RN105** | 1 - 8 | 1.75" | 1.00" | .630" | .500" | 1.13" |

**NOTE: Add "– NP" to the end of the part number for optional nylon patch.**



## LOCKWELL® SINGLE ACTING PINS

- **Push center button to retract the balls and remove the pin.**
- **2 or 4 ball configurations.**
- **Military and aerospace grade available.**
- **2 pin materials, 4 handle styles.**




Handle Style R | Handle Style B | Handle Style T | Handle Style L

**For detailed material specifications and product strength guidelines.**

**www.clancey.com**

### Material Note:

"C" = CRES is stronger than "S" = 4130 alloy steel
See www.clancey.com for specific tensile and shear strength information for all shank sizes.

### Grip Length:

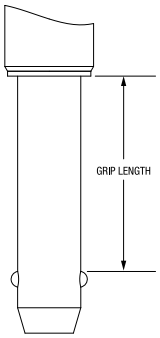
This is the load bearing area on the Lockwell quick-release pin and is measured from shoulder to the tangent point where the ball intersects the shank diameter.

Grip length for Lockwell pins is always specified in thousandth-inch increments, e.g., 500 equals 1/2" grip length.

### Dimensions

| Shank DIA. | | Dimensions | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size | Code[1] | A Min. | A Max. | B ±.005 | C Max. | D Min. | E Min. | F Max. | G Max. | H Min. | J Max. | K Min. | L Min. | M Max. | N Min. | R Max. | S Min. | T Min. | U Min. |
| 3/16 | 3 | .1885 | .1870 | .220 | .260 | .250 | .310 | 1.815 | 1.270 | .800 | 1.800 | .760 | .730 | 1.450 | 1.060 | .830 | .720 | .105 | .380 |
| 1/4 | 4 | .2485 | .2470 | .289 | .290 | .250 | .310 | 1.815 | 1.270 | .800 | 1.800 | .760 | .780 | 1.500 | 1.060 | .890 | .720 | .105 | .380 |
| 5/16 | 5 | .3110 | .3095 | .375 | .330 | .250 | .410 | 1.815 | 1.270 | .800 | 1.800 | .760 | .830 | 1.650 | 1.060 | .930 | .810 | .105 | .380 |
| 3/8 | 6 | .3735 | .3720 | .440 | .365 | .300 | .450 | 2.065 | 1.450 | .850 | 2.030 | .850 | .940 | 1.650 | 1.060 | 1.040 | .875 | .134 | .510 |
| 7/16 | 7 | .4360 | .4345 | .509 | .380 | .300 | .550 | 2.065 | 1.470 | .850 | 2.030 | .850 | .980 | 1.850 | 1.090 | 1.160 | .940 | .134 | .510 |
| 1/2 | 8 | .4985 | .4970 | .594 | .460 | .435 | .600 | 2.345 | 1.600 | .885 | 2.360 | .850 | 1.140 | 1.850 | 1.160 | 1.190 | 1.300 | .200 | .630 |
| 9/16 | 9 | .5610 | .5595 | .666 | .510 | .435 | .680 | 2.345 | 1.600 | .885 | 2.360 | .850 | 1.140 | 2.030 | 1.160 | 1.410 | 1.340 | .200 | .630 |
| 5/8 | 10 | .6235 | .6220 | .750 | .580 | .450 | .750 | 3.100 | 1.700 | .980 | 3.070 | .905 | 1.400 | 2.250 | 1.240 | 1.500 | 1.530 | .231 | .810 |
| 3/4 | 12 | .7485 | .7470 | .887 | .670 | .570 | .865 | 3.100 | 1.720 | 1.030 | 3.070 | .980 | 1.625 | 2.650 | 1.640 | 1.680 | 1.790 | .231 | .810 |
| 7/8 | 14 | .8735 | .8720 | 1.046 | .760 | .700 | .980 | 3.520 | 2.170 | 1.310 | 3.700 | 1.200 | 1.875 | 3.000 | 1.640 | 1.985 | 2.120 | .231 | 1.120 |
| 1 | 16 | .9985 | .9970 | 1.219 | .890 | .750 | 1.175 | 3.520 | 2.170 | 1.310 | 3.700 | 1.200 | 2.000 | 3.100 | 1.640 | 2.140 | 2.210 | .231 | 1.180 |

**Note:**
*1. Use to complete part number.*




### Lockwell Single Acting Pins Part Numbers

**Standard Part Number** **Special Order Instructions**

**LG - 3 C T 300 F M 750**

- Longer Non-Standard "C" dim. (See Note 4) Omit for standard "C" dim.
- Used when manufactured to MS or NASM
- Ball Const. – **F** = 4-Ball Construction Omit for standard 2-Ball Construction
- Grip Length (Thousandth inch increments)
- Handle Style – See Style Table
- Material – **S** = 4130 Alloy Steel **C** = CRES
- Shank Diameter Code – See Dimension Table
- Lockwell Single Acting Pins

**Single Acting Notes:**

1. All pins can be ordered to the procurement specifications NASM 23460, and/or NAS 1332 and are QPL listed on NASM 17984 thru 17987 and NAS 1333 through 1346. Commercial grade pins are also available.
2. Attaching links standard on all pins.
3. Button "B" handle available in aluminum (A) or CRES ("C") on pins with CRES shank.
4. If greater "C" dimension is necessary add length in thousandth of an inch after "F" letter. Example: LG3CT300F750 (750 = .750 inch)
5. Pins are identified per AMS-STD-130 and applicable specification.
6. Single acting pins are available in metric sizes. Specify when ordering.
7. Custom lengths require a 25 piece minimum order quantity. Contact Southco customer service or your local Southco Representative for pricing and leadtimes.

**All dimensions on this page are in inches.**

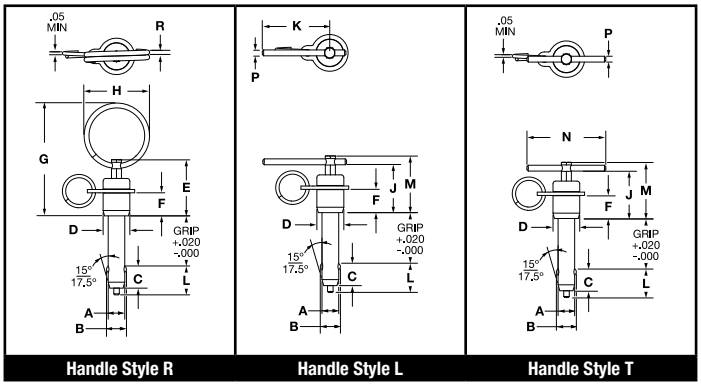
## LOCKWELL® DOUBLE ACTING PINS



- **"Push In", or "Pull Out" to retract the balls and remove the pin.**
- **2 or 4 ball configurations.**
- **Military and aerospace grade available.**
- **2 pin materials, 3 handle styles.**

**For detailed material specifications and product strength guidelines.**

**www.clancey.com**




Handle Style R | Handle Style L | Handle Style T

### Dimensions

| Shank DIA. Size | Code[1] | A Min. | A Max. | B ±.005 | C Max. | D Max. | E Min. | F Max. | G Max. | H Max. | J Min. | K Max. | L Max. | M Max. | N. Min. | P Min. | R Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/16 | 3 | .1885 | .1870 | .220 | .410 | .450 | .935 | .480 | 1.945 | 1.125 | .780 | 1.300 | .50 | 1.030 | 1.375 | .105 | .080 |
| 1/4 | 4 | .2485 | .2470 | .289 | .410 | .450 | .935 | .480 | 1.945 | 1.125 | .780 | 1.300 | .50 | 1.030 | 1.375 | .105 | .080 |
| 5/16 | 5 | .3110 | .3095 | .375 | .440 | .505 | .935 | .480 | 1.945 | 1.125 | .780 | 1.300 | .55 | 1.030 | 1.375 | .105 | .080 |
| 3/8 | 6 | .3735 | .3720 | .440 | .510 | .630 | 1.000 | .540 | 2.025 | 1.125 | .830 | 1.500 | .64 | 1.090 | 1.875 | .134 | .080 |
| 7/16 | 7 | .4360 | .4345 | .509 | .510 | .630 | 1.000 | .540 | 2.025 | 1.125 | .830 | 1.500 | .64 | 1.090 | 1.875 | .134 | .080 |
| 1/2 | 8 | .4985 | .4970 | .594 | .590 | .755 | 1.070 | .540 | 2.060 | 1.125 | .880 | 1.655 | .75 | 1.270 | 2.125 | .200 | .080 |
| 9/16 | 9 | .5610 | .5595 | .666 | .660 | .755 | 1.070 | .540 | 2.060 | 1.125 | .880 | 1.655 | .82 | 1.270 | 2.125 | .200 | .080 |
| 5/8 | 10 | .6235 | .6220 | .750 | .750 | .870 | 1.250 | .575 | 2.550 | 1.500 | 1.000 | 1.810 | .93 | 1.465 | 2.375 | .231 | .120 |
| 3/4 | 12 | .7485 | .7470 | .887 | .790 | .960 | 1.250 | .595 | 2.550 | 1.500 | 1.000 | 1.810 | .97 | 1.465 | 2.375 | .231 | .120 |
| 7/8 | 14 | .8735 | .8720 | 1.046 | .950 | 1.150 | 1.500 | .730 | 2.770 | 1.500 | 1.180 | 2.250 | 1.18 | 1.640 | 2.750 | .231 | .120 |
| 1 | 16 | .9985 | .9970 | 1.219 | 1.100 | 1.280 | 1.700 | .865 | 2.950 | 1.500 | 1.320 | 2.250 | 1.35 | 1.830 | 2.750 | .231 | .120 |

**Note:**
*1. Use to complete part number.*

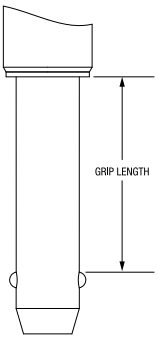
**Material Note:**
"C" = CRES is stronger than
"S" = 4130 alloy steel
See www.clancey.com for specific tensile and shear strength information for all shank sizes.

**Grip Length:**
This is the load bearing area on the Lockwell quick-release pin and is measured from shoulder to the tangent point where the ball intersects the shank diameter.

Grip length for Lockwell pins is always specified in thousandth-inch increments, e.g., 500 equals 1/2" grip length.

**Double Acting Notes:**

1. All pins can be ordered to the procurement specifications NASM 23460 and are QPL listed on NASM 17988 thru NASM 17990 and NAS 1353 thru 1366. Commercial grade pins are also available.
2. Attaching links standard on all pins.
3. Double acting pins are available with a drive-out feature. This feature is employed where removal of pin is necessary while in a shear loaded condition.
   To order drive-out, see part number example.
4. If greater "C" dimension is necessary add length
   in thousandth of an inch after "F" letter.
   Example: LG3CT300F750 (750 = .750 inch)
5. Pins are identified per AMS-STD-130 and applicable specification.
6. Double acting pins are available in metric sizes. Specify when ordering.
7. Custom lengths require a 25 piece minimum order quantity. Contact Clancey for pricing and leadtimes.




**All dimensions on this page are in inches.**

### Lockwell Double Acting Pins Part Numbers

**Special Order Instructions**

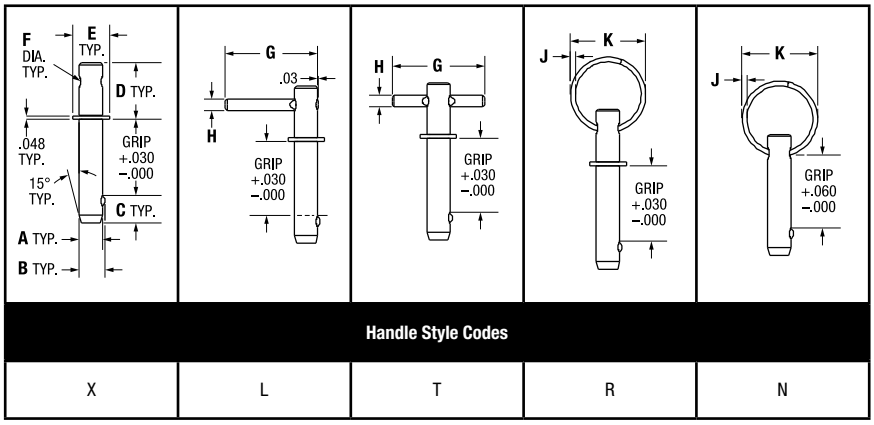
**LH - 3 C T 300 D F M 750**

- Longer Non-Standard "C" dim. (See Note 4.) Omit for standard "C" dim.
- Used when manufactured to MS or NASM
- Ball Const. – **F** = 4-Ball Const. Omit for 2-Ball pin
- **N** = Non-Drive Out **D** = Drive Out ( See note 3.)
- Grip Length (Thousandth inch increments)
- Handle Style – See Style Table
- Material – = Alloy Steel = CRES
- Shank Diameter Code – See Dimentions Table
- Lockwell Double Acting Pins

- **Commercial grade single ball detent pins.**
- **Ball retracts when pushed or pulled against a hard surface.**
- **3 pin materials, five head styles.**

## LOCKWELL® DETENT PINS






| Handle Style Codes | | | | |
|---|---|---|---|---|
| X | L | T | R | N |

**For detailed material specifications and product strength guidelines.**

**www.clancey.com**

### Dimensions

| Shank DIA. | | Dimensions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size | Code[1] | A +.0000 - .003 | B ±.010 | C Max. | D +.020 -.030 | E Max. | F DIA. | G | H DIA. | J DIA. | K ±.060 |
| 3/16 | 3 | .188 | .200 | .200 | .750 | .339 | .096 | 1.25 | .093 | .062 | .875 |
| 1/4 | 4 | .250 | .286 | .312 | .750 | .401 | .128 | 1.25 | .125 | .062 | .875 |
| 5/16 | 5 | .313 | .358 | .375 | .750 | .464 | .159 | 1.25 | .156 | .062 | .875 |
| 3/8 | 6 | .375 | .426 | .500 | .750 | .589 | .159 | 1.75 | .156 | .062 | .875 |
| 7/16 | 7 | .438 | .496 | .562 | 1.000 | .652 | .159 | 1.75 | .156 | .062 | .875 |
| 1/2 | 8 | .500 | .570 | .625 | 1.062 | .714 | .191 | 2.00 | .188 | .105 | 1.040 |
| 9/16 | 9 | .563 | .642 | .687 | 1.062 | .776 | .191 | 2.00 | .188 | .105 | 1.040 |
| 5/8 | 10 | .625 | .710 | .750 | 1.125 | .870 | .253 | 2.25 | .250 | .105 | 1.040 |
| 3/4 | 12 | .750 | .856 | .937 | 1.375 | .994 | .253 | 2.25 | .250 | .105 | 1.290 |
| 7/8 | 14 | .875 | .996 | 1.000 | 1.500 | 1.009 | .379 | 2.50 | .375 | .105 | 1.290 |
| 1 | 16 | 1.00 | 1.140 | 1.250 | 1.500 | 1.244 | .379 | 2.50 | .375 | .105 | 1.290 |

**Note:**
*1. Use to complete part number.*

### Lockwell Industrial/Commercial Part Numbers

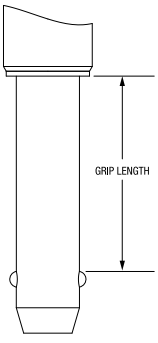
**LR - * D T 1500**

- 1500 — Grip Length – in thousands (1.500" Grip)
- T — Handle Style – See Styles Table
- D — Pin Material – See material specifications and Shear Strength table at left
  - **D** = 303 CRES
  - **E** = 4130 Steel, Type 1 Cad. Plate
  - **F** = 12L14/1215 Steel, Type 1 Cad. Plate
- * — Shank Diameter Code – See Dimensions Table
- LR — Lockwell Detent Pin

**Material Note:**
"D" 303 CRES and "F" 12L14 steel are similar in shear strength. "E" 4130 steel is stronger in sheer. All materials have equal tensile strength due to ball detent construction. For specific information visit www.clancey.com

**Grip Length:**
This is the load bearing area on the Lockwell quick-release pin and is measured from shoulder to the tangent point where the ball intersects the shank diameter.

Grip length for Lockwell pins is always specified in thousandth-inch increments, e.g., 500 equals 1/2" grip length.



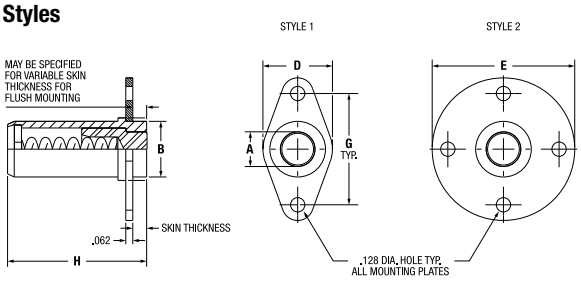

Aerospace grade available
(Please call)

## LOCKWELL® PIN RECEPTACLES



- **Spring loaded.**
- **Dust / weather sealed.**
- **Ideal for blind applications.**
- **Variable skin thickness.**
- **2 mounting patterns.**

**Styles**




**Lockwell Receptacle Part Numbers**

**LW-1981 - * C * ***

- Skin Thickness – in thousands of an inch (.032" to .500" standard, example: 048 = .048")
- Mounting Plate Type
  - **1** = 2 Holes
  - **2** = 4 Holes
- Material
  - **C** = CRES
- Receptacle Size Code – (Must match pin shank diameter code)
  - **3** = 3/16″
  - **4** = 1/4″
  - **5** = 5/16″
  - **6** = 3/8″
- Basic Lockwell Receptacle Part Number

**Dimensions**

Choose a receptacle size that matches your pin shank diameter. Use the same size code for your receptacle as your pin.

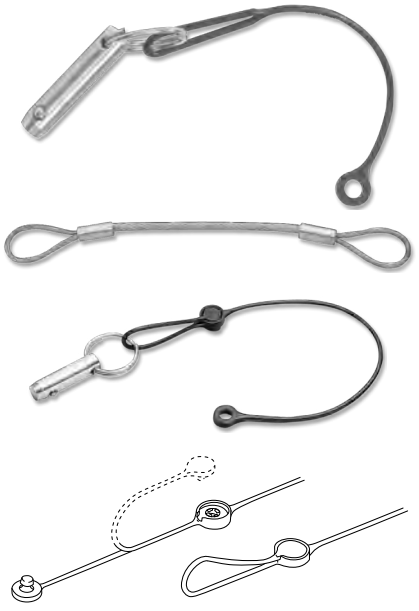
| Pin Shank Dia. | Receptacle Size Code[1] | Dimensions | | | | | |
|---|---|---|---|---|---|---|---|
| | | A Dia. +.001 –.000 | B Dia. +.001 –.004 | D | E Dia. | G | H |
| 3/16 | 3 | .190 | .375 | .625 | 1.281 | 1.000 | 1.25 |
| 1/4 | 4 | .250 | .375 | .625 | 1.281 | 1.000 | 1.25 |
| 5/16 | 5 | .312 | .500 | .625 | 1.281 | 1.000 | 1.25 |
| 3/8 | 6 | .375 | .625 | .750 | 1.406 | 1.125 | 1.31 |

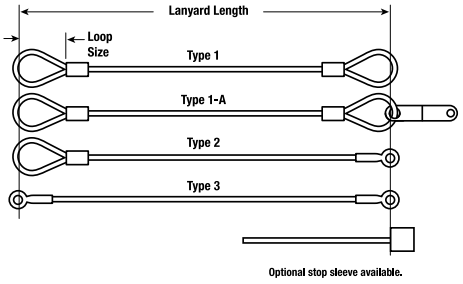
**Note:**

*1. Use to complete part number.*

## LANYARDS

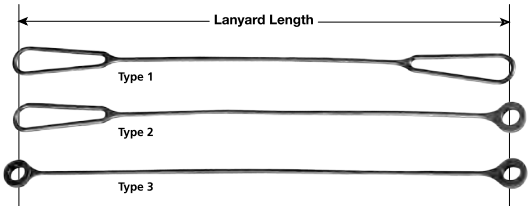
- **Too many combinations to list them all.**
- **Quick turn around and competitive pricing.**






**Material Options:**

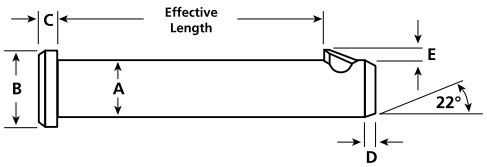
Molded nylon
steel cable
stainless cable
coated cables
chain
100's of end-fitting combinations.




Please call us for a quote on your design.

## SLIC PINS™

- **Patented ramped end allows easy insertion. yet prevents back-out.**
- **Eliminates other components.**
- **Ideal for blind or restricted access applications.**

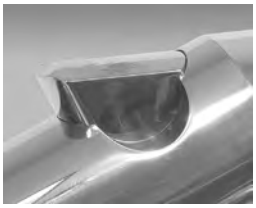





**SLIC PIN™ SPECS**

| Basic Shank Diameter | Effective Length | Shank Diameter A | Head Diameter B | Head Height C | Chamfer D | Approx. Wedge Height E |
|---|---|---|---|---|---|---|
| 3/16 | as required | .181 - .186 | .31 | .06 | .040 x 22° | .035 |
| 1/4 | as required | .243 - .248 | .37 | .09 | .055 x 22° | .049 |
| 5/16 | as required | .306 - .311 | .43 | .09 | .065 x 22° | .049 |
| 3/8 | as required | .368 - .373 | .50 | .12 | .070 x 22° | .075 |
| 7/16 | as required | .431 - 436 | .56 | .15 | .080 x 22° | .075 |
| 1/2 | as required | .491 - .496 | .62 | .15 | .090 x 22° | .083 |
| 5/8 | as required | .616 - .621 | .81 | .20 | .120 x 22° | .083 |
| 3/4 | as required | .741 - .746 | .93 | .25 | .115 x 22° | .083 |

*Unless otherwise noted, all dimensions are for reference only.*

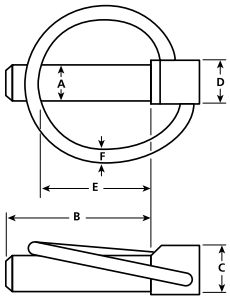


Strong spring-loaded plunger features easy insertion ramp. Vertical face at rear prevents backing out.

- **No tools required.**
- **Call for samples, and we'll create your part number.**
- **Easy to customize.**

## LYNCH PINS

- **Over-center "Flip" of the ring locks the pin securely in place.**
- **Several sizes including a thicker wire diameter for heavy duty application.**
- **Economical choice.**
- **Excellent corrosion resistance.**






| PART NUMBER | Pin Diameter "A" | Shank Length "B" | Head Width "C" | Head Width "D" | Capture Length "E" | Wire Diameter "F" |
|---|---|---|---|---|---|---|
| **77-100** | .188" | 1.25" | .500" | .348" | 1.00" | .118" |
| **77-200** | .188" | 1.56" | .500" | .348" | 1.31" | .138" |
| **77-400** | .250" | 1.75" | .500" | .348" | 1.38" | .138" |
| **77-600** | .313" | 1.75" | .500" | .406" | 1.38" | .138" |
| **77-810** | .438" | 1.75" | .563" | .438" | 1.38" | .138" |
| **77-820** | .438" | 1.94" | .594" | .500" | 1.69" | .138" |
| **77-300** | .438" | 1.94" | .594" | .500" | 1.50" | .197" |

**Material:**
Low carbon steel

**Finish:**
Zinc plated and yellow chromate dipped.



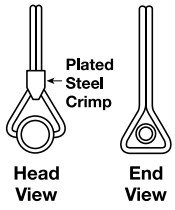
™Pivot-Point, Inc.

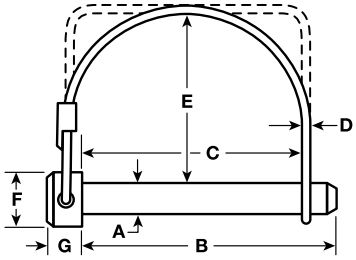
# QUICK ACCESS FASTENERS
## ASSEMBLY PINS

### WIRE LOCK PINS

- **Pin and cotter in one.**
- **Flipping action secures the pin.**
- **Round and square resigns.**






**Material:**
Low carbon steel -Pin
MB spring wire - loop

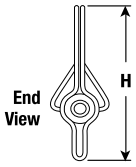
**Finish:**
Zinc plated

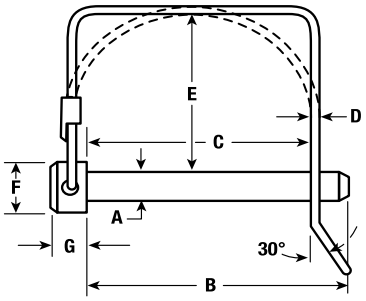
| PART NUMBER | Pin Diameter "A" | Pin Length "B" | Effective Length "C" | Wire Diameter "D" | Loop Clearance "E" | Head Diameter "F" | Head Height "G" | Wire Loop Shape |
|---|---|---|---|---|---|---|---|---|
| **77-WL-10R** | .243" | 2.00" | 1.75" | .091" | 1.63" | .562" | .312" | Round |
| **77-WL-30S** | .306" | 2.75" | 2.50" | .091" | 1.75" | .625" | .312" | Square |
| **77-WL-30R** | .306" | 2.75" | 2.50" | .091" | 2.00" | .625" | .312" | Round |
| **77-WL-70S** | .368" | 2.50" | 2.25" | .091" | 1.50" | .625" | .312" | Square |

### TAB LOCK PINS

- **Extended tab on wire form allows easy operation.**






**Material:**
Low carbon steel -Pin
MB spring wire - loop

**Finish:**
Zinc plated

| PART NUMBER | Pin Diameter "A" | Pin Length "B" | Effective Length "C" | Wire Diameter "D" | Loop Clearance "E" | Head Diameter "F" | Head Height "G" | Overall Height "A" | Wire Loop Shape |
|---|---|---|---|---|---|---|---|---|---|
| **77-TL-10R** | .243" | 2.00" | 1.75" | .091" | 1.63" | .562" | .312" | 2.75" | Round |
| **77-TL-80S** | .368" | 2.75" | 2.25" | .091" | 1.50" | .625" | .312" | 2.75" | Square |

## SOUTHCO® "47" SERIES CAPTIVE SCREWS

- **Industry's broadest line of captive screw fastener options.**
- **Product configurator at www.clancey.com will help you select the screw best suited for your application.**



**Type "47" into the search bar for direct access to this complete product line.**

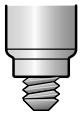
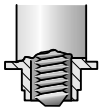
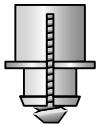
**www.clancey.com**

| Thread Size Options | |
|---|---|
| Inch | Metric |
| 4-40 | M3 |
| 6-32 | M3.5 |
| 8-32 | M4 |
| 10-32 | M5 |
| 1/4-20 | M6 |

**HEAD STYLE OPTIONS: Bright, black powdercoat, overmolded in colors.**

| **Slotted** | **Phillips** | **Phillips/Slot Combination** | **TORX®** | **TORX®/Slot Combination** |
|---|---|---|---|---|
| Common recess | Better tool retention. Meets certain limited-access restrictions. | Combine the better tool retention of Phillips with the convenience of a slotted recess | • Higher torque transfer.<br>• Reduced camout & end load.<br>• High-speed assembly.<br>• Longer tool life. | Combine the benefits of TORX® with the convenience of a slotted recess. |
|  |  |  |  |  |

**INSTALLATION OPTIONS:**

| **Press-in** | **Flare-in** | **Floating** | **P.C. Board** | **Snap-in** |
|---|---|---|---|---|
| Simple, one-step process commonly used in the sheet-metal industry. | Requires less installation force. Especially good for near-edge installations or thin panels. | Provides additional radial float to accommodate a significant amount of misalignment. | Designed for use in P.C. Boards and other composites such as fiberglass. | Install by hand, no special tools required. |
|  |  |  |  |  |

## RESTRICTED ACCESS "47"



- **Hand turn close tool to open.**
- **Meets UL restricted access requirements.**

## CUSTOM CONFIGURATIONS

- **Southco's specialty.**
  - **Jack-out**
  - **Tool only**
  - **Special recess**
  - **Screw length**
  - **Colors**



EXPANDED RANGE

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

## SOUTHCO® CAPTIVE SCREWS

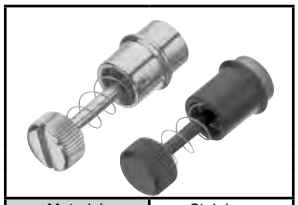
STAINLESS AVAILABLE

- **Highest quality, attractive finishes available — short lead times**

**Visit www.clancey.com**
**Type the Clancey web search number into the search box on our homepage for direct access to the full product line.**

### Polished (Spring Ejected)

Clancey Web Search "53"



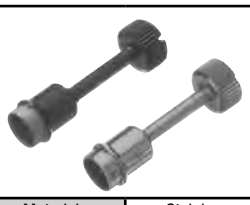
| Material: | Stainless |
|---|---|

| Thread Options | |
|---|---|
| Inch | Metric |
| 4-40 | M3 |
| 6-32 | M4 |
| 8-32 | M5 |
| 10-32 | M6 |
| 1/4-20 | |

| Installation Method |
|---|
| Flare-In |
| **Head Style** |
| Knurled |
| **Recess Style** |
| Slotted |
| **Finish Options** |
| Polished / Black |

### Polished (w/ stand-off)

Clancey Web Search "51"



| Material: | Stainless |
|---|---|

| Thread Options | |
|---|---|
| Inch | Metric |
| 4-40 | M3 |
| 6-32 | M4 |
| 8-32 | M5 |
| 10-32 | M6 |
| 1/4-20 | |

| Installation Method |
|---|
| Flare-In |
| **Head Style** |
| Knurled |
| **Recess Style** |
| Slotted |
| **Finish** |
| Polished / Black |

### Flush

Clancey Web Search "F5"



| Material: | Stainless |
|---|---|

| Thread Options | |
|---|---|
| Inch | Metric |
| 4-40 | M3 |
| 6-32 | M4 |
| 8-32 | M5 |

| Installation Method |
|---|
| Press-In |
| **Head Style** |
| Flush |
| **Recess Style** |
| Phillips / Slotted |
| **Finish** |
| Stainless passivated |

### Polished Basic (no stand-off)

Clancey Web Search "58"



| Material: | Stainless |
|---|---|

| Thread Options | |
|---|---|
| Inch | Metric |
| 8-32 | M4 |
| 10-32 | M5 |
| 1/4-20 | M6 |

| Installation Method |
|---|
| Through Hole |
| **Head Style** |
| Knurled |
| **Recess Style** |
| Slotted |
| **Finish** |
| Polished / Black |

### Minature (Spring Ejected)

Clancey Web Search "52"



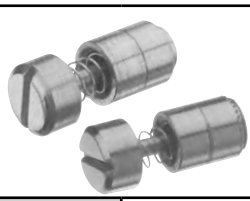
| Material: | Hardened Steel |
|---|---|

| Thread Options | |
|---|---|
| Inch | Metric |
| 4-40 | M3 |
| 6-32 | M4 |

| Installation Method | |
|---|---|
| Press-In | Flare-In |
| **Head Style** | |
| Knurled | Smooth |
| **Recess Styles** | |
| Phillips-Slot | Torx Slot |
| **Finish** | |
| Bright Zinc | |

### Mini-Polished (Spring Ejected)

Clancey Web Search "52"



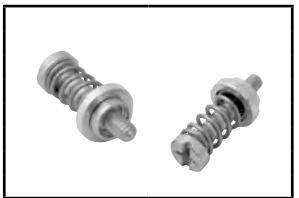
| Material: | Stainless |
|---|---|

| Thread Options | |
|---|---|
| Inch | Metric |
| 4-40 | M3 |
| 6-32 | |

| Installation Method | |
|---|---|
| Press-In | Flare-In |
| **Head Style** | |
| Smooth | |
| **Recess Style** | |
| Slotted | |
| **Finish** | |
| Polished Stainless | |

### Heat Sink

Clancey Web Search "5T"



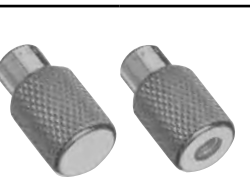
| Material: | Hardened Steel |
|---|---|

| Thread Options | |
|---|---|
| Inch | Metric |
| 4-40 | M3 |
| 6-32 | M3.5 |

| Installation Method | |
|---|---|
| Press-In | Flare-In |
| **Head Style** | |
| Knurled | Smooth |
| **Recess Style** | |
| Phillips-Slot | Torx Slot |
| **Finish** | |
| Bright Zinc | |

### Captive Nut

Clancey Web Search "N7"



| Material: | Knob - Stainless |
|---|---|
| | Ferrule - Steel |

| Thread Options | |
|---|---|
| Inch | Metric |
| 4-40 | M3 |
| 6-32 | M4 |
| 8-32 | M5 |
| 10-32 | M6 |
| 1/4-20 | |

| Installation Method | |
|---|---|
| Press-In | |
| **Head Style** | |
| Knurled | |
| **Recess Style** | |
| Blind | Thru-Hole |
| **Finish** | |
| Knob - natural | |
| Ferrule - bright zinc | |

# HOW TO SELECT A SOUTHCO® DRIVE RIVET

## COMMON APPLICATIONS

THIN PANELS



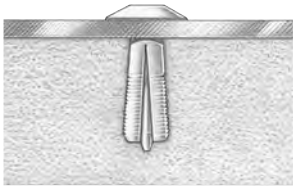
INSULATED PANELS



TUBULAR FRAME



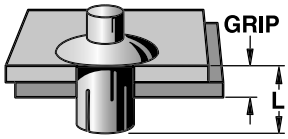
BLIND HOLE



## INSTALLATION

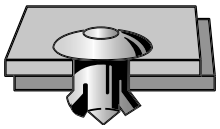
### THRU HOLE APPLICATION

1. Measure your total material thickness.
2. Select the correct grip length rivet from tables on the following pages by comparing your total sheet thickness with the MIN. and MAX. values in columns headed GRIP.




GRIP = total thickness of sheets to be fastened.

3. INSERT A RIVET
   Seat head firmly against outer surface.

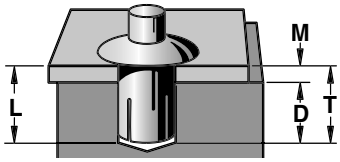


4. HIT THE PIN
   Drive pin flush with rivet head. Expanding prongs clinch sheets tightly, eliminating gaps.

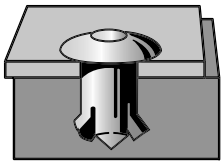
Suggested hole size for thru hole applications:

| RIVET DIAMETER | 3.2 (.125) | 4 (.156) | 4.8 (.188) | 6.4 (.250) | 7.9 (.313) | 9.5 (.375) |
|---|---|---|---|---|---|---|
| HOLE DIA. +0.1 (+.003) -0.0 (-.001) | 3.3 (.128) | 4 (.161) | 4.9 (.191) | 6.5 (.257) | 8.2 (.323) | 9.8 (.386) |

### BLIND HOLE APPLICATION




To determine length of rivet under the head: Select a rivet with the L dimension equal to M (Thickness of outer panel) + D (Hole depth in wood or inner panel). The total hole depth (T) should be at least 2 mm (.06") greater than the length of the rivet.



Suggested hole size for blind hole applications in wood:

| RIVET DIA. | HOLE DIAMETER RANGE |
|---|---|
| 3.2 (.125) | 3.3 (.128) - 3.5 (.140) |
| 4 (.156) | 4 (.161) - 4.3 (.172) |
| 4.8 (.188) | 4.9 (.191) - 5.5 (.219) |
| 6.4 (.250) | 6.7 (.266) - 7 (.281) |
| 7.9 (.313) | 8.7 (.344) - 9.5 (.375) |
| 9.5 (.375) | 11 (.437) - 12 (.468) |

The small end of the range diameter is for softer woods and the high end is for harder woods.

### MASONRY BLIND HOLE

1. Use a carbide tipped spiral masonry drill, same diameter as rivet [6.4 (.250) or 4.8 (.188)]. Drill to any depth, deep enough to permit full insertion of rivet.



2. Insert rivet through material to be attached and into wall. No other parts to apply-rivet works like a nail.



3. Drive the pin just flush with rivet head, using ordinary hammer. Rivet prongs expand deep in masonry where it is strongest.



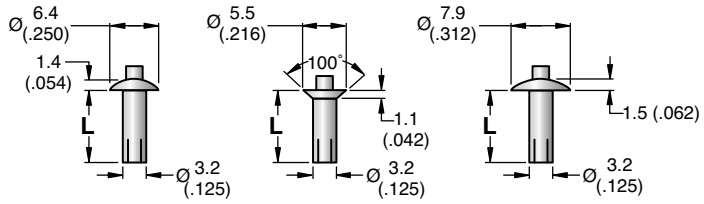
4. That's all. Attachment is complete. To remove, drill head off or, if hole is deep enough, drive pin through and pull rivet out.



## GENERAL PURPOSE RIVETS

### 1/8" (3.2 mm) DIAMETER

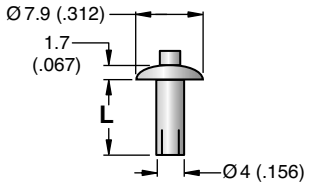





**Material and Finish:**
**Rivet: Aluminum, natural**
**Pin: 302 Stainless steel, natural**

| PART NUMBERS | | | L | GRIP | | |
|---|---|---|---|---|---|---|
| Universal Head | 100 CSK Head | Full Brazier Head | | MIN. | NOM. | MAX. |
| 38-104-02-13 | | | 4 (.156) | 1.2 (.047) | 1.6 (.063) | 2 (.078) |
| 38-104-03-13 | 38-504-03-13 | 38-204-03-13 | 4.8 (.188) | 2 (.078) | 2.4 (.094) | 2.8 (.109) |
| 38-104-04-13 | | 38-204-04-13 | 5.6 (.219) | 2.8 (.109) | 3.2 (.125) | 3.6 (.141) |
| 38-104-05-13 | 38-504-05-13 | 38-204-05-13 | 6.4 (.250) | 3.6 (.141) | 4 (.156) | 4.4 (.172) |
| 38-104-06-13 | | 38-204-06-13 | 7.1 (.281) | 4.4 (.172) | 4.8 (.188) | 5.2 (.203) |
| 38-104-07-13 | 38-504-07-13 | 38-204-07-13 | 7.9 (.313) | 5.2 (.203) | 5.6 (.219) | 6 (.234) |
| 38-104-08-13 | | | 8.7 (.344) | 6 (.234) | 6.4 (.250) | 6.8 (.266) |
| 38-104-09-13 | 38-504-09-13 | | 9.5 (.375) | 6.8 (.266) | 7.1 (.281) | 7.5 (.297) |
| 38-104-10-13 | | | 10.3 (.406) | 7.5 (.297) | 7.9 (.313) | 8.3 (.328) |
| 38-104-11-13 | | | 11.1 (.438) | 8.3 (.328) | 8.7 (.344) | 9.1 (.359) |
| 38-104-12-13 | | 38-204-12-13 | 11.9 (.469) | 9.1 (.359) | 9.5 (.375) | 9.9 (.391) |

### 5/32" (4 mm) DIAMETER




**Material and Finish:**
**Rivet: Aluminum, natural**
**Pin: 302 Stainless steel, natural**

| PART NUMBERS | L | GRIP | | |
|---|---|---|---|---|
| Universal Head | | MIN. | NOM. | MAX. |
| 38-105-03-13 | 5.6 (.219) | 2 (.078) | 2.4 (.094) | 2.8 (.109) |
| 38-105-04-13 | 6.4 (.250) | 2.8 (.109) | 3.2 (.125) | 3.6 (.141) |
| 38-105-05-13 | 7.1 (.281) | 3.6 (.141) | 4 (.156) | 4.4 (.172) |
| 38-105-06-13 | 7.9 (.313) | 4.4 (.172) | 4.8 (.188) | 5.2 (.203) |
| 38-105-07-13 | 8.7 (.344) | 5.2 (.203) | 5.6 (.219) | 6 (.234) |
| 38-105-08-13 | 9.5 (.375) | 6 (.234) | 6.4 (.250) | 6.8 (.266) |
| 38-105-09-13 | 10.3 (.406) | 6.8 (.266) | 7.1 (.281) | 7.5 (.297) |
| 38-105-10-13 | 11.1 (.438) | 7.5 (.297) | 7.9 (.313) | 8.3 (.328) |
| 38-105-11-13 | 11.9 (.469) | 8.3 (.328) | 8.7 (.344) | 9.1 (.359) |
| 38-105-15-13 | 15.1 (.594) | 11.5 (.453) | 11.9 (.469) | 12.3 (.484) |
| 38-105-16-13 | 15.9 (.625) | 12.3 (.484) | 12.7 (.500) | 13.1 (.516) |
| 38-105-20-13 | 19.1 (.750) | 15.5 (.609) | 15.9 (.625) | 16.3 (.641) |

These rivets can be used for masonry applications. See instructions on page 223.

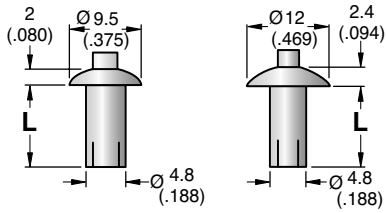
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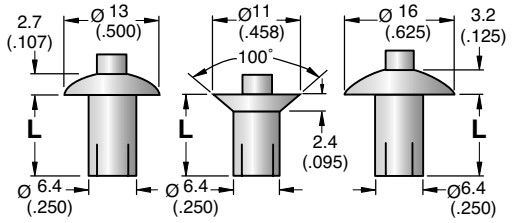
## GENERAL PURPOSE RIVETS

### 3/16" (4.8 mm) DIAMETER

| PART NUMBERS | | L | GRIP | | |
|---|---|---|---|---|---|
| Universal Head | Full Brazier Head | | MIN. | NOM. | MAX. |
| 38-106-02-16 | 38-206-02-16 | 6.4 (.250) | 1.2 (.047) | 2.4 (.094) | 3.6 (.141) |
| 38-106-04-16 | 38-206-04-16 | 7.1 (.281) | 2 (.078) | 3.2 (.125) | 4.4 (.172) |
| 38-106-06-16 | 38-206-06-16 | 8.7 (.344) | 3.6 (.141) | 4.8 (.188) | 6 (.234) |
| 38-106-08-16 | 38-206-08-16 | 10.3 (.406) | 5.2 (.203) | 6.4 (.250) | 7.5 (.297) |
| 38-106-10-16 | 38-206-10-16 | 11.9 (.469) | 6.8 (.266) | 7.9 (.313) | 9.1 (.359) |
| 38-106-12-16 | 38-206-12-16 | 13.5 (.531) | 8.3 (.328) | 9.5 (.375) | 10.7 (.422) |
| 38-106-14-16 | 38-206-14-16 | 15.1 (.594) | 9.9 (.391) | 11.1 (.438) | 12.3 (.484) |
| 38-106-16-16 | 38-206-16-16 | 16.7 (.656) | 11.5 (.453) | 12.7 (.500) | 13.9 (.547) |
| 38-106-18-16 | 38-206-18-16 | 18.3 (.719) | 13.1 (.516) | 14.3 (.563) | 15.5 (.609) |
| 38-106-20-16 | 38-206-20-16 | 19.8 (.781) | 14.7 (.578) | 15.9 (.625) | 17.1 (.672) |
| | 38-206-26-16 | 24.6 (.969) | 19.4 (.766) | 20.6 (.813) | 21.8 (.859) |
| 38-106-28-16 | | 26.2 (1.031) | 21 (.828) | 22.2 (.875) | 23.4 (.922) |
| 38-106-32-16 | 38-206-32-16 | 29.4 (1.156) | 24.2 (.953) | 25.4 (1.000) | 26.6 (1.047) |






### 1/4" (6.4 mm) DIAMETER

| PART NUMBERS | | | L | GRIP | | |
|---|---|---|---|---|---|---|
| Universal Head | 100 CSK Head | Full Brazier Head | | MIN. | NOM. | MAX. |
| 38-108-02-16 | | 38-208-02-16 | 6.4 (.250) | 1.2 (.047) | 2.4 (.094) | 3.6 (.141) |
| 38-108-04-16 | | 38-208-04-16 | 7.1 (.281) | 2 (.078) | 3.2 (.125) | 4.4 (.172) |
| 38-108-06-16 | | 38-208-06-16 | 8.7 (.344) | 3.6 (.141) | 4.8 (.188) | 6 (.234) |
| 38-108-08-16 | 38-508-08-16 | 38-208-08-16 | 10.6 (.416) | 5.2 (.203) | 6.4 (.250) | 7.5 (.297) |
| 38-108-10-16 | 38-508-10-16 | 38-208-10-16 | 11.9 (.469) | 6.8 (.266) | 7.9 (.313) | 9.1 (.359) |
| 38-108-12-16 | 38-508-12-16 | 38-208-12-16 | 13.5 (.531) | 8.3 (.328) | 9.5 (.375) | 10.7 (.422) |
| 38-108-14-16 | 38-508-14-16 | 38-208-14-16 | 15.1 (.594) | 9.9 (.391) | 11.1 (.438) | 12.3 (.484) |
| 38-108-16-16 | 38-508-16-16 | 38-208-16-16 | 16.7 (.656) | 11.5 (.453) | 12.7 (.500) | 13.9 (.547) |
| 38-108-18-16 | 38-508-18-16 | 38-208-18-16 | 18.3 (.719) | 13.1 (.516) | 14.3 (.563) | 15.5 (.609) |
| 38-108-20-16 | 38-508-20-16 | 38-208-20-16 | 19.8 (.781) | 14.7 (.578) | 15.9 (.625) | 17.1 (.672) |
| | 38-508-22-16 | | 21.4 (.844) | 16.3 (.641) | 17.5 (.688) | 18.7 (.734) |
| 38-108-24-16 | 38-508-24-16 | 38-208-24-16 | 23 (.906) | 17.9 (.703) | 19.1 (.750) | 20.3 (.797) |
| | 38-508-26-16 | | 24.6 (.969) | 19.4 (.766) | 20.6 (.813) | 21.8 (.859) |
| 38-108-28-16 | 38-508-28-16 | 38-208-28-16 | 26.2 (1.031) | 21 (.828) | 22.2 (.875) | 23.4 (.922) |
| | | 38-208-32-16 | 29.4 (1.156) | 24.2 (.953) | 25.4 (1.000) | 26.6 (1.047) |
| | | 38-208-36-16 | 32.5 (1.281) | 27.4 (1.078) | 28.6 (1.125) | 29.7 (1.171) |
| | | 38-208-44-16 | 38.9 (1.531) | 33.7 (1.328) | 34.9 (1.375) | 36.1 (1.421) |

These rivets can be used for masonry applications. See instructions on page 223.

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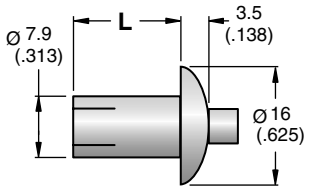
**Material and Finish:**

**Rivet: Aluminum, natural**

**Pin: 7075 Stainless steel, natural**

## LARGE DIAMETER ALUMINUM RIVETS

### 5/16" (7.9 mm) DIAMETER

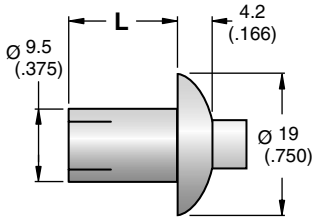



**Material and Finish:**
**Rivet: Aluminum, natural**
**Pin: 7075 Aluminum, natural**

| GRIP | | | L | PART NUMBERS |
|---|---|---|---|---|
| MIN. | NOM. | MAX. | | Universal Head |
| 3.4 (.132) | 4.8 (.188) | 6.2 (.242) | 11.1 (.438) | 38-110-06-16 |
| 5.7 (.226) | 7.1 (.281) | 8.5 (.336) | 13.5 (.531) | 38-110-09-16 |
| 8.1 (.320) | 9.5 (.375) | 10.9 (.430) | 15.9 (.625) | 38-110-12-16 |
| 10.5 (.414) | 11.9 (.469) | 13.3 (.523) | 18.3 (.719) | 38-110-15-16 |
| 12.9 (.508) | 14.3 (.563) | 15.7 (.617) | 20.6 (.813) | 38-110-18-16 |
| 15.3 (.601) | 16.7 (.656) | 18.1 (.711) | 23 (.906) | 38-110-21-16 |
| 17.7 (.695) | 19.1 (.750) | 20.5 (.804) | 25.4 (1.000) | 38-110-24-16 |
| 20 (.789) | 21.4 (.844) | 22.8 (.898) | 27.8 (1.094) | 38-110-27-16 |
| 22.4 (.882) | 23.8 (.938) | 25.2 (.992) | 30.2 (1.188) | 38-110-30-16 |



### 3/8" (9.5 mm) DIAMETER



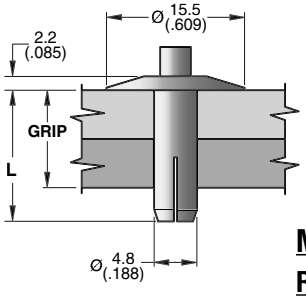

| GRIP | | | L | PART NUMBERS |
|---|---|---|---|---|
| MIN. | NOM. | MAX. | | Universal Head |
| 3.2 (.125) | 4.8 (.188) | 6.4 (.250) | 12.7 (.500) | 38-112-06-16 |
| 5.5 (.219) | 7.1 (.281) | 8.7 (.344) | 15.1 (.594) | 38-112-09-16 |
| 7.9 (.313) | 9.5 (.375) | 11.1 (.438) | 17.5 (.688) | 38-112-12-16 |
| 10.3 (.406) | 11.9 (.469) | 13.5 (.531) | 19.8 (.781) | 38-112-15-16 |
| 12.7 (.500) | 14.3 (.563) | 15.9 (.625) | 22.2 (.875) | 38-112-18-16 |
| 15.1 (.594) | 16.7 (.656) | 18.3 (.719) | 24.6 (.969) | 38-112-21-16 |

## TRAILER LINER RIVETS

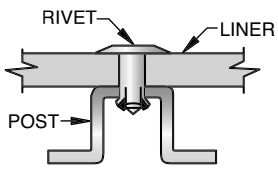


- Fast, efficient trailer lining
- Low profile, non-snag head design
- Six sizes

| GRIP | | L | PART NUMBERS |
|---|---|---|---|
| MIN. | MAX. | | |
| 1.9 (.075) | 4.4 (.175) | 7.1 (.281) | 10-11-706-13 |
| 4.4 (.175) | 7 (.275) | 9.9 (.391) | 10-12-706-13 |
| 7 (.275) | 9.5 (.375) | 12.3 (.484) | 10-13-706-13 |
| 9.5 (.375) | 12.1 (.475) | 14.7 (.578) | 10-14-706-13 |
| 12.1 (.475) | 14.6 (.575) | 17.5 (.688) | 10-15-706-13 |
| 14.6 (.575) | 17.1 (.675) | 19.8 (.781) | 10-16-706-13 |




### INSTALLATION EXAMPLE



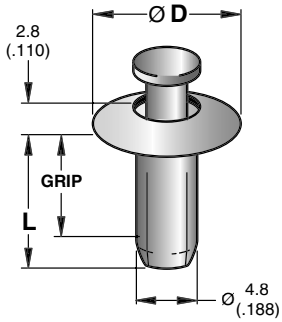

**Material and Finish:**
**Rivet: 2117 Aluminum, natural**
**Pin: 7075 Aluminum, natural**

## TAMPER-RESISTANT, TAMPER EVIDENT RIVETS

- Recessed pin resists being driven through or drilled out
- Removal is difficult and time consuming
- Non-snag head design
- 2 Diameters and 4 grip ranges



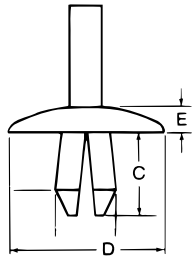
| GRIP | | L | PART NUMBERS | |
|---|---|---|---|---|
| MIN. | MAX. | | Ø 12 (.468) Head | Ø 16 (.615) Head |
| 1.9 (.075) | 4.4 (.175) | 7.1 (.281) | 10-99-106-11 | 10-99-108-11 |
| 4.4 (.175) | 7 (.275) | 9.9 (.391) | 10-99-106-12 | 10-99-108-12 |
| 7 (.275) | 9.5 (.375) | 12.3 (.484) | 10-99-106-13 | 10-99-108-13 |
| 9.5 (.375) | 12.1 (.475) | 14.7 (.578) | 10-99-106-14 | 10-99-108-14 |

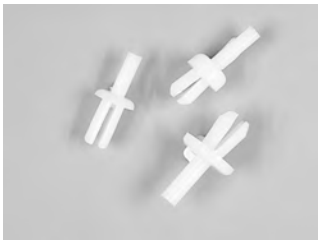



**Material and Finish:**
**Rivet: 2117 Aluminum, natural**
**Pin: 5056 Aluminum, natural**

- **Wide variety of hole sizes, grip ranges and head styles.**
- **Made from non-corrosive plastic materials.**
- **Prongs "Snap-in" to fastening hole and expand to secure panels when the pin is driven.**

## PLASTI-RIVETS®



INCH

NON-CORROSIVE

| PLASTI-RIVETS PART NUMBERS | DIMENSIONS | | | MOUNTING | | STYLE | |
|---|---|---|---|---|---|---|---|
| | PRONG LENGTH "C" | HEAD DIAMETER "D" | HEAD HEIGHT "E" | NOMINAL HOLE DIAMETER | GRIP RANGE | HEAD | PIN |
| 231-080551-00 | .212" | .187" | .045" | .125" | .031" - .140" | ROUND | NON-DRIVEN |
| 231-080551-05 | .240" | .218" | .060" | .125" | .031" - .140" | ROUND | PRE-DRIVEN |
| 231-090741-00 | .296" | .220" | .050" | .136" | .040" - .218" | BINDER | PRE-DRIVEN |
| 201-100841-00 | .323" | .218" | .050" | .156" | .187" - .250" | BINDER | NON-DRIVEN |
| 231-100841-01 | .327" | .230" | .050" | .156" | .040" - .250" | BINDER | PRE-DRIVEN |
| 231-101041-01 | .385" | .375" | .050" | .156" | .218" - .312" | BINDER | NON-DRIVEN |
| 201-120541-00 | .228" | .375" | .125" | .187" | .062" - .156" | BARREL | NON-DRIVEN |
| 201-120741-00 | .310" | .438" | .075" | .187" | .062" - .156" | BINDER | NON-DRIVEN |
| 231-120741-00 | .310" | .438" | .075" | .187" | .062" - .156" | BINDER | PRE-DRIVEN |
| 201-120741-01 | .310" | .320" | .075" | .187" | .062" - .156" | TRUSS | NON-DRIVEN |
| 201-120751-00 | .310" | .281" | .075" | .187" | .062" - .156" | ROUND | NON-DRIVEN |
| 201-121041-00 | .406" | .437" | .075" | .187" | .156" - .281" | BINDER | NON-DRIVEN |
| 231-121041-02 | .416" | .281" | .062" | .187" | .040" - .375" | SPECIAL ROUND | PRE-DRIVEN |
| 226-120501-02 | .212" | .312" | .031" | .190" | .031" - .125" | BARREL | NON-DRIVEN |
| 201-121541-00 | .549" | .281" | .078" | .190" | .312" - .440" | BINDER | NON-DRIVEN |
| 231-121741-00 | .613" | .437" | .075" | .190" | .375" - .500" | BINDER | NON-DRIVEN |
| 231-141141-01 | .452" | .344" | .062" | .218" | .040" - .400" | BINDER | PRE-DRIVEN |
| 201-161241-00 | .381" | .437" | .187" | .250" | .060" - .250" | BINDER | NON-DRIVEN |
| 231-161241-00 | .381" | .437" | .187" | .250" | .060" - .250" | BINDER | PRE-DRIVEN |
| 231-161341-03 | .510" | .437" | .080" | .250" | .040" - .462" | BINDER | PRE-DRIVEN |
| 201-161341-00 | .499" | .437" | .080" | .250" | .125" - .375" | BINDER | NON-DRIVEN |
| 201-161751-00 | .640" | .375" | .110" | .250" | .281" - .500" | ROUND | NON-DRIVEN |
| 201-180401-00 | .205" | .375" | .312" | .272" | .031" - .109" | BARREL | NON-DRIVEN |
| 226-160501-01 | .224" | .406" | .046" | .272" | .031" - .140" | BARREL | NON-DRIVEN |
| 201-181141-00 | .483" | .625" | .109" | .281" | .134" - .320" | BINDER | NON-DRIVEN |
| 231-181141-00 | .483" | .625" | .109" | .281" | .134" - .320" | BINDER | PRE-DRIVEN |

### Head Styles


Binder


Round


Barrel


Special Round


Truss

**Notes:** Hole size may vary with grip range. Dimensions listed are nominal.

**Material:** Nylon 66
**Colors:** Natural, Black. Custom available

Try this part in your application
Please call for samples.

800-747-7405



® ITW Fastex

# PANEL FASTENERS
## DRIVE RIVETS

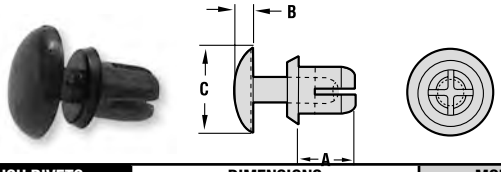
EXPANDED RANGE

## NYLON PUSH RIVETS

INCH

NON-CORROSIVE

- Securely holds panels in place.
- Removable, re-usable by pulling up on head.
- Quick, easy hand installation.




| PUSH RIVETS PART NUMBER | | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|---|
| BLACK | WHITE | PRONG LEGNTH "A" | HEAD HEIGHT "B" | HEAD DIAMETER "C" | HOLE DIAMETER | GRIP RANGE |
| 9020 | 9021 | .126" | .055" | .197" | .106" | .039" - .079" |
| 9022 | 9023 | .165" | | | | .082" - .118" |
| 9024 | 9025 | .189" | | | | .106" - .141" |
| 9026 | 9027 | .217" | | | | .134" - .169" |
| 9028 | 9029 | .138" | .063" | .252" | .122" | .039" - .079" |
| 9030 | 9031 | .177" | | | | .079" - .118" |
| 9032 | 9033 | .217" | | | | .118" - .157" |
| 9034 | 9035 | .256" | | | | .157" - .197" |
| 9036 | 9039 | .315" | | | | .217" - .256" |
| 9046 | 9047 | .177" | .063" | .252" | .142" | .086" - .122" |
| 9048 | 9049 | .197" | | | | .106" - .142" |
| 9050 | 9051 | .217" | | | | .126" - .161" |
| 9054 | 9055 | .276" | | | | .185" - .220" |
| 9058 | 9059 | .197" | .071" | .315" | .161" | .098" - .138" |
| 9060 | 9061 | .236" | | | | .138" - .177" |
| 9062 | 9063 | .276" | | | | .177" - .217" |
| 9064 | 9065 | .315" | | | | .217" - .256" |
| 9068 | 9069 | .394" | | | | .295" - .335" |
| 9070 | 9071 | .177" | .087" | .354" | .201" | .059" - .098" |
| 9072 | 9073 | .217" | | | | .098" - .138" |
| 9074 | 9075 | .256" | | | | .138" - .177" |
| 9076 | 9077 | .295" | | | | .177" - .217" |
| 9078 | 9079 | .335" | | | | .217" - .256" |
| 9080 | 9081 | .374" | | | | .256" - .295" |
| 9082 | 9083 | .413" | | | | .295" - .335" |

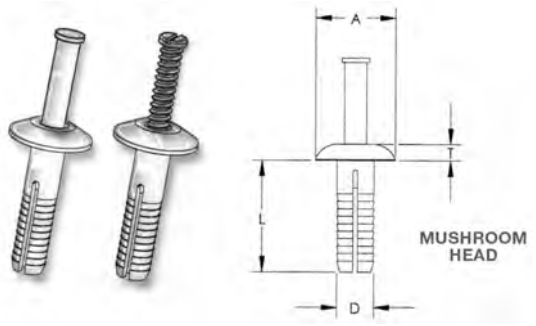
**Material: Nylon** **Flammability rating: 94V-2**
**Color: Black**

**Try this part in your application Please call for samples.**

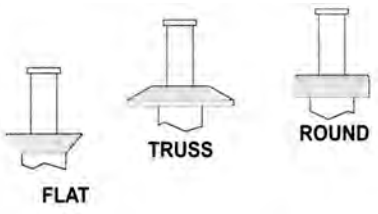
**800-747-7405**

## NYLON ANCHOR RIVETS

- Holds securely in blind applications.
- High impact nylon body.
- Nylon or removable steel pin.




| PART NUMBER | | Hole Diameter "D" | Length "L" | Head Style |
|---|---|---|---|---|
| Plastic Pin | Steel Pin | | | |
| 61APM18075 | 61ASM18075 | .187" | .750" | Mushroom |
| 61APM25075 | 61ASM25075 | .250" | .750" | |
| 61APM25175 | 61ASM25175 | | 1.00" | |
| 61APM25150 | 61ASM25150 | | 1.50" | |
| 61APR18075 | 61ASR18075 | .187" | .750" | Round |
| 61APR25075 | 61ASR25075 | .250" | .750" | |
| 61APR25100 | 61ASR25100 | | 1.00" | |
| 61APR25150 | 61ASR25150 | | 1.50" | |
| 61APT18075 | 61AST18075 | .187" | .750" | Truss |
| 61APT25075 | 61AST25075 | .250" | .750" | |
| 61APT25100 | 61AST25100 | | 1.00" | |
| 61APT25150 | 61AST25150 | | 1.50" | |
| 61APT25200 | --- | | 2.00" | |
| 61APT25300 | --- | | 3.00" | |
| 61APT25400 | --- | | 4.00" | |
| 61APT25500 | --- | | 5.00" | |
| 61APT25600 | --- | | 6.00" | |
| 61APF25056 | --- | .250" | .563" | Flat |
| 61APF25075 | --- | | .750" | |

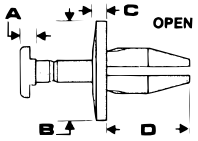



**Material & Finish:**
**Body - Nylon, white**
**Pin - Nylon. white**
**- Steel, zinc plate**

| Head Style | Head Diameter "A" | Head Height "T" |
|---|---|---|
| Mushroom | .625" | .110" |
| Round | .438" | .125" |
| Truss | .625" | .110" |
| Flat | .438" | .108" |

## STANDARD TUFLOK®

- **Installed by hand, or with automatic equipment.**
- **Removable.**
- **Re-usable.**
- **Vibration resistant.**






INCH

NON-CORROSIVE

| STANDARD TYPE TUFLOK PART NUMBER | DIMENSIONS | | | | MOUNTING | |
|---|---|---|---|---|---|---|
| | A | B | C | D | HOLE DIAMETER | GRIP RANGE |
| 31050001 | .083" | .283" | .039" | .445" | .193" - .205" | .059" - .181" |
| 30060003 | .049" | .669" | .098" | .709" | .236" - .244" | .197" - .236" |
| 30063001 | .138" | 1.00" | .098" | .898" | .248" - .276" | .098" - .350" |
| 30063008* | .098" | .700" | .098" | .559" | .244" - .262" | .060" - .228" |
| 30063014 | .118" | .590" | .079" | .897" | .250" - .276" | .098" - .315" |
| 30080016 | .091" | .591" | .106" | .787" | .315" - .325" | .118" - .315" |

* Open prong design, all other closed per screw type drawing.

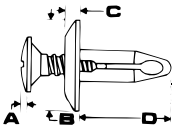
**Material:** Nylon
**Colors:** Black - custom available
**Note:** Listed dimensions are nominal

## SCREW TYPE TUFLOK®

- **Quick, "push-action" installation.**
- **Easy removal with phillips screwdriver.**
- **Re-usable.** • **Vibration resistant.**

INCH

NON-CORROSIVE





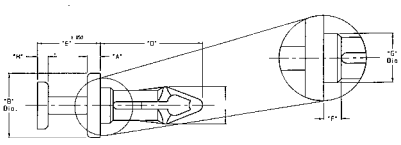

| SCREW TYPE TUFLOK PART NUMBER | DIMENSIONS | | | | MOUNTING | |
|---|---|---|---|---|---|---|
| | A | B | C | D | HOLE DIAMETER | GRIP RANGE |
| 60018703 | ---- | .380" | .060" | .720" | .175" - .187" | .330" - .390" |
| 60018707 | ---- | .380" | .060" | .720" | .181" | .380" - .440" |
| 60050003 | .098" | .433" | .118" | .689" | .197" | .098" - .138" |
| 60060003 | .043" | .472" sq. | .126" | .638" | .236" square | .114" - .146" |
| 60063002 | .030" | .700" | .118" | .689" | .248" - .258" | .098" - .236" |
| 60063005 | .030" | .700" | .118" | .898" | .248" - .268" | .098" - .314" |
| 60063006 | .030" | .610" | .118" | .898" | .248" - .268" | .098" - .314" |
| 60070001 | .030" | .500" | .118" | 1.213" | .276" | .650" - .768" |
| 61080001 | .030" | .590" | .118" | .787" | .315" - .335" | .139" - .334" |

** Square Head Style

**Material:** Nylon
**Colors:** Black - custom available
**Note:** Listed dimensions are nominal

## MICRO TUFLOK®

- **Ideal for fastening electronic components to printed circuit boards.**
- **Can withstand up to 500˚ F in wave solder process.**



INCH

NON-CORROSIVE

| MICRO-TUFLOK PART NUMBER | DIMENSIONS | | | | MOUNTING | |
|---|---|---|---|---|---|---|
| | A | B | C | D | HOLE DIAMETER | GRIP RANGE |
| 1700-00 | .040" | .190" | .060" | .345" | .097" - .103" | .160" - .180" |
| 1702-00 | .050" | .218" | .060" | .300" | .106" - .112" | .080" - .105" |
| 1711-00 | .050" | .218" | .060" | .320" | .122" - .128" | .105" - .130" |
| 1707-00 | .050" | .218" | .060" | .345" | .122" - .128" | .130" - .155" |
| 1703-00 | .040" | .218" | .060" | .370" | .122" - .128" | .155"- .180" |
| 1704-00 | .040" | .218" | .060" | .455" | .122" - .128" | .240" - .265" |
| 1708-00* | .050" | .300" | .060" | .470" | .144" - .154" | .265" - .290" |
| 1713-00* | .060" | .297" | .060" | .423" | .153" - .163" | .205" - .230" |

* "Shoulder" style. Please call for additional dimensions.

**Material:** Heat stabilized impact modified nylon
**Color:** Black
**Note:** Listed dimensions are nominal

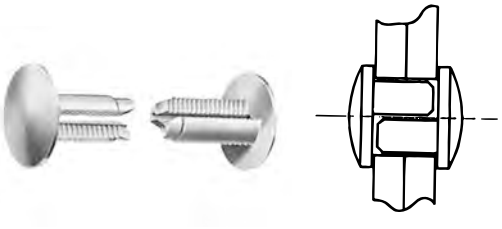


® ITW Fastex

## RACHET-RIVETS

INCH

NON-CORROSIVE



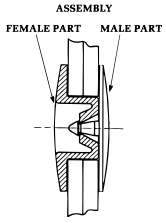
- Mating parts securely connect flat panels.
- Ideal for materials with variance, multiple layers, and compressible materials.

| RACHET RIVETS PART NUMBER | DIMENSIONS | | MOUNTING | |
|---|---|---|---|---|
| | HEAD DIAMETER | HEAD HEIGHT | HOLE DIAMETER | GRIP RANGE |
| 236-170406-00 | .750" | .093" | .281" | .235" - .297" |
| 236-170406-02 | .750" | .093" | .281" | .346" - 500" |
| 236-170406-03 | .750" | .093" | .281" | .500" - .812" |
| 236-170406-04 | .750" | .093" | .281" | .780" - 1.375" |
| 236-170406-05 | .406" | .062" | .281" | .235" - .297" |
| 236-170406-07 | .406" | .062" | .281" | .346" - 500" |
| 236-170406-08 | .406" | .062" | .281" | .500" - .812" |
| 236-170406-09 | .406" | .062" | .281" | .780" - 1.375" |

**Material:** Nylon 66
**Colors:** Natural, black - custom available
**Note:** Listed dimensions are nominal

## SNAP-RIVETS






INCH

NON-CORROSIVE

- Mating parts securely connect flat panels.
- Used extensively in the medical industry.
- Ideal for compressible materials.

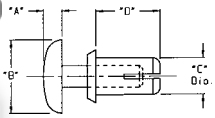
| SNAP RIVET ASSEMBLY | | DIMENSIONS | | MOUNTING | |
|---|---|---|---|---|---|
| MALE PART NUMBER | FEMALE PART NUMBER | HEAD DIA. | HEAD HEIGHT | HOLE DIA. | GRIP RANGE |
| 236-220603-00 | 236-220604-00 | .625" | .062" | .320" | .170" - .190" |
| 236-220603-02 | 236-220604-00 | .625" | .062" | .320" | .220" - .240" |
| 236-220603-05 | 236-220604-01 | .460" | .062" | .320" | .170" - .190" |
| 236-220603-10 | 236-220604-00 | .625" | .062" | .320" | .320" - .340" |
| 236-220603-10 | 2700-00 | .625" | .062" | .320" | .740" - .770" |

**Material:** Nylon 66
**Colors:** Clear, Natural, black - custom available
**Note:** Listed dimensions are nominal

## MINI PRO-LOK RIVET

INCH

NON-CORROSIVE






- Smooth oversized head and polished surface provide excellent external appearance.
- Inserts and installs easily by hand.
- Removable with flat head screwdriver head (Pry open).
- Streamlined size — Ideal for electronic applications.

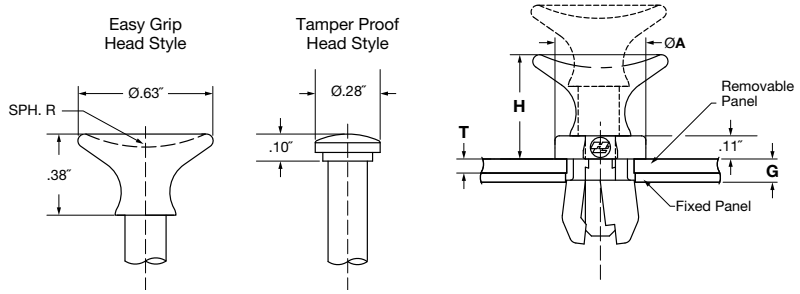
| MINI PRO-LOK RIVET PART NUMBER | DIMENSIONS | | | | MOUNTING | |
|---|---|---|---|---|---|---|
| | A | B | C | D | HOLE DIAMETER | GRIP RANGE |
| 1116-17 | .082" | .315" | .155" | .278" | .161" - .169" | .177" - .217" |
| 1116-21 | .071" | .315" | .158" | .315" | .161" - .169" | .217" - .256" |
| 1116-29 | .071" | .315" | .158" | .394" | .161" - .169" | .295" - .335" |

**Material:** Nylon 66
**Color:** Black
**Notes:** UL94 V-2 Rating
Listed dimensions are nominal

NEW ITEMS

- **High assembly speed.**
- **Easy grip, or tamper-resistant head styles.**
- **Fastener captivates in outer panel.**
- **Non-corrosive, non-conductive.**
- **High cycle life.**

## NYLATCH® 1-PIECE RIVET







### Panel Preparation

| Panel Preparation | | Head Style |
|---|---|---|
| Hole Dia. Removable Panel | Hole Dia. Fixed Panel | |
| .238" - .242" | .254" - .259" | Tamper Proof |
| .294" - .299" | .316 - .323" | Easy Grip |

| Head Style | H Max. | | Load Data | | Weight per 100 Pieces |
|---|---|---|---|---|---|
| | Latched | Unlatched | Tension | Shear | |
| Tamper Proof | .21" | .37" | 50 Lbs. | 75 Lbs. | .10 Lbs. |
| Easy Grip | .48" | .65" | 60 Lbs. | 150 Lbs. | .32 Lbs. |

**Material:**
**Nylon, UL94 V2 Rated**

**Colors:**
**Black or white**

### Part Numbers

| Head Style | G-Grip Range | T Max. | A | Color | Part Number |
|---|---|---|---|---|---|
| Tamper Proof | .076" - .165" | .057" | .34" | Black | NY-N4-2-3-20 |
| | | | | White | NY-N4-2-3-10 |
| Easy Grip | .182" - .271" | .162" | .42" | Black | NY-N5-4-1-20 |
| | | | | White | NY-N5-4-1-10 |

**Please call for samples to try in your application.**
**800-747-7405**

### Installation:



The 1-piece Nylatch® grommet and plunger are molded into a single unit.



To install, insert the grommet end through previously drilled holes in the removable panel and fixed panel (see table above for hole diameters). Then drive the plunger into the grommet by striking the head with a mallet.



As the plunger penetrates the grommet, the grommet expands, locking the panel to the fixed panel.



To release the removable panel: simply pull the plunger up, allowing the grommet to contract. The panels can then be separated. The 1-piece Nylatch® is held captive and ready for reuse.

NEW ITEMS

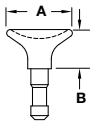
CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

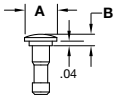
## NYLATCH® 2-PIECE FASTENER

NON-CORROSIVE

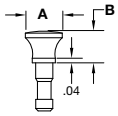





Easy Grip (-1)




Tamper Proof (-3)

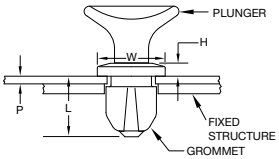



Mini Grip (-4)

- **Economical choice.**
- **3 head styles.**
- **Non-conductive, non-corrosive.**
- **Order plunger & grommet separately.**

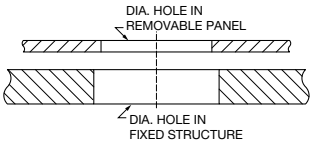
### Assembly Dimensions

| Head Style Code | Plunger Size | | | | | |
|---|---|---|---|---|---|---|
| | 3/16" | | 1/4" | | 5/16" | |
| | A | B | A | B | A | B |
| -1 | - | - | - | - | .63" | .38" |
| -3 | .26" | .10" | .28" | .10" | .30" | .11" |
| -4 | .25" | .26" | .32" | .28" | .38" | .30" |




### Panel Preparation

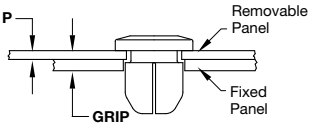
(see sizes below)




**Note:**
*See hold dimension information for each fastener size at right.*

### How to Order

**Grip and Top Panel Thickness**
Figure 1




*Grommet shown without plunger.*

### 3/16" Diameter Plunger

| Sheet Capacity | | Dimensions | | | Length Number[1] | |
|---|---|---|---|---|---|---|
| G Range | P Max. | H Max. | L Max | W Dia. | Grommet | Plunger |
| .056" - .153" | .042" | .065" | .330" | .255" | -31 | -32 |
| .079" - .176" | .065" | .050" | .346" | .255" | -32 | -32 |
| .112" - .209" | .098" | .050" | .490" | .255" | -33 | -33[2] |
| .152" - .249" | .138" | .050" | .430" | .255" | -34 | -34 |

**Hole Diameters**
**Removable Panel:** .180" to .183"
**Fixed Structure:** .189" to .192"
**Operable Hole Misalignment:** ±.007

### 1/4" Diameter Plunger

| Sheet Capacity | | Dimensions | | | Length Number[1] | |
|---|---|---|---|---|---|---|
| G Range | P Max. | H Max. | L Max | W Dia. | Grommet | Plunger |
| .059" - .148" | .042" | .079" | .371" | .336" | -41 | -42[2] |
| .084" - .173" | .065" | .064" | .386" | .336" | -42 | -42[2] |
| .118" - .207" | .098" | .064" | .430" | .336" | -43 | -43 |
| .182" - .217" | .162" | .064" | .494" | .336" | -44 | -44[2] |

**Hole Diameters**
**Removable Panel:** .238" to .242"
**Fixed Structure:** .250" to .254"
**Operable Hole Misalignment:** ±.019

### 5/16" Diameter Plunger

| Sheet Capacity | | Dimensions | | | Length Number[1] | |
|---|---|---|---|---|---|---|
| G Range | P Max. | H Max. | L Max | W Dia. | Grommet | Plunger |
| .059" - .148" | .042" | .095" | .371" | .420" | -51 | -52[2] |
| .084" - .173" | .065" | .080" | .387" | .420" | -52 | -52[2] |
| .118" - .207" | .098" | .080" | .429" | .420" | -53 | -53[2] |
| .182" - .217" | .162" | .080" | .494" | .420" | -54 | -54[2] |
| .230" - .139" | .210" | .080" | .542" | .420" | -55 | -55 |

**Hole Diameters**
**Removable Panel:** .294" to .299"
**Fixed Structure:** .316" to .323"
**Operable Hole Misalignment:** ±.020

1. **Grip**
   Add the thicknesses of the two panels in which the fastener is to be used (Figure 1). Include the thickness of any paint or coatings. This sum must fall within a range tabulated for each fastener size on the following page.
2. **Outer Panel Thickness (P)**
   For any Grip range there is a maximum outer panel thickness, P (Figure 1). Select the appropriate grommet by using P Max from the grommet and plunger tables.
3. **Complete Part Number**
   With each grip and outer panel size you will find a matching pair of Plunger and Grommet lengths tabulated. Use these two length numbers to form the part numbers that together will provide a fastener assembly that fits your application.
4. **Finish Part Number**
   Plunger head styles and material/color combinations are added last. The options are shown in the part number scheme layout.

**Notes (for all 3 tables):**

1. *Use to build part number. You must use the Plunger Number matching the Grommet Number as shown in these tables when ordering.*
2. *Available in Tamper proof head style.*

### Grommet Part Numbers

**NY-WG-XX-YY**

- Color & Material
  - **-20** = Black Polycarbonate (UL 94 V-2)
  - **-10** = White Polycarbonate (UL 94 V-2)
  - **-17** = Gray Polycarbonate (UL 94 V-2)
  - **-15** = Clear Polycarbonate (UL 94 V-2)
  - **-30** = Black Polysulfone (UL 94 V-0)
  - **-31** = Natural Polysulfone (UL 94 V-0)
  - **-40** = Black Acetal (UL 94 HB)
  - **-41** = White Acetal (UL 94 HB)
- Grommet Length Number
  *(See Grommet and Plunger Tables on previous page)*
- Series Size
  **3**=.188" Dia.
  **4**=.250" Dia.
  **5**=.313" Dia

### Plunger Part Numbers

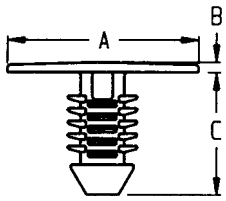
**NY-WP-XX-Z-YY**

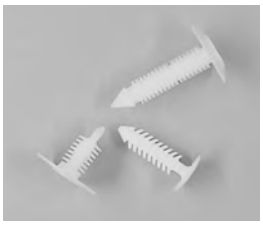
- Color & Material
  - **-50** = Black Nylon (UL 94 V-2)
  - **-51** = White Nylon (UL 94 V-2)
  - **-52** = Gray Nylon (UL 94 V-2)
  - **-60** = Black Polyester (UL 94 V-2)
  - **-62** = Natural Polyester (UL 94 V-0)
- Head Style (See Drawings)
  -1 = Easy Grip[1]
  -3 = Tamper Proof[2]
  -4 = Mini Grip
- Plunger Length Number[3]
  *(See Grommet and Plunger Tables on Previous Pages)*
- Series Size
  **3**=.188" Dia.
  **4**=.250" Dia.
  **5**=.313" Dia

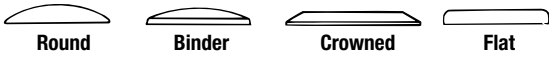
- **Wide variety of head diameters, installation hole sizes, and grip ranges.**
- **Easy to install by hand.**
- **Very secure.**
- **Accommodates tolerances in panel thickness.**

## CHRISTMAS TREE™ CLIPS

NON-CORROSIVE

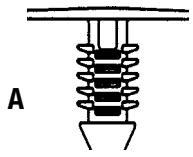


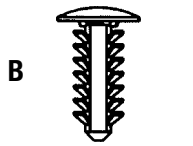






**Head Styles**

**Prong Style**





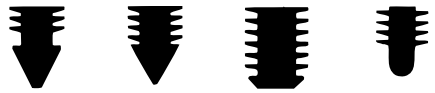





| CHRISTMAS TREE PART NUMBER | DIMENSIONS | | | MOUNTING | | STYLE | | |
|---|---|---|---|---|---|---|---|---|
| | HEAD DIA. "A" | HEAD HEIGHT "B" | PRONG LENGTH "C" | HOLE DIAMETER | GRIP RANGE | POINT SYTLE | HEAD STYLE | PRONG STYLE |
| 354-125300-00 | .240" | .080" | .318" | .120" - .130" | .135" - .250" | BLUNT* | FLAT | D |
| 354-156001-00 | .375" | .090" | .551" | .151" - .161" | .035" - .312" | BLUNT | FLAT* | A |
| 354-120240-00 | .437" | .070" | .452" | .182" - .192" | .035" - .210" | CONICAL | FLAT | A |
| 354-190001-00 | .437" | .070" | .650" | .182" - .192" | .080" - .402" | CONICAL | FLAT | A |
| 354-190001-01 | .337" | .050" | .560" | .182" - .192" | .080" - .400" | CONICAL | ROUND | A |
| 354-190300-00 | .438" | .080" | 1.39" | .182" - .192" | .200" - 1.15" | ROUND | FLAT | A |
| 354-200102-00 | .470" | .039" | .700" | .185 - .195" | .100" - .600" | CONICAL | BINDER* | A |
| 354-200101-00 | .750" | .070" | .710" | .190" - .200" | .060" - .480" | TRIANGLE | FLAT* | A |
| 354-220000-00 | .500" | .059" | .955" | .223" - .233" | .140" - .750" | CONICAL | BINDER | C |
| 354-250304-00 | .618" | .125" | .404" | .240" - .260" | .075" - .185" | ROUND | FLAT | C |
| 354-250103-00 | .750" | .040" | .510" | .245" - .255" | .095" - .320" | TRIANGLE* | FLAT | A |
| 354-070201-00 | .750" square | .055" | 1.08" | .245" - .255" | .040" - .750" | CONICAL | FLAT | A |
| 354-250303-00 | .995" | .060" | 1.47" | .245" - .255" | .065" - 1.25" | CONICAL | FLAT | A |
| 2601-00 | .700" | .100" | .561" | .245" - .255" | .070" - .400" | TRIANGLE* | ROUND | C |
| 2607-00 | .500" | .060" | .571" | .245" - .255" | .070" - .400" | TRIANGLE* | ROUND | C |
| 2630-00 | .700" | .075" | 1.04" | .245" - .255" | .110" - .800" | CONICAL | ROUND | B |
| 2631-00 | .700" | .075" | 1.35" | .245" - .255" | .410" - 1.13" | CONICAL | ROUND | B |
| 354-250302-00 | 1.25" | .059" | .451" | .247" - .257" | .110" - .370" | TRIANGLE | FLAT | A |
| 354-280301-00 | .937" | .083" | .730" | .276" - .286" | .050" - .440" | TRIANGLE | CROWNED | A |
| 354-280302-00 | 1.22" | .090" | 1.14" | .276" - .286" | .350" - .800" | CONICAL | FLAT* | A |
| 354-182740-00 | .500" | .060" | .950" | .276" - .286" | .250" - .800" | CONICAL | ROUND | C |
| 354-280308-01 | .808" | .053" | .675" | .281" - .286" | .155" - .500" | TRIANGLE* | FLAT* | A |
| 354-280307-00 | .760" | .110" | 1.28" | .276" - .286" | .050" - .900" | TRIANGLE | CROWNED | A |
| 354-280308-00 | .620" | .040" | .770" | .276" - .286" | .093" - .470" | TRIANGLE | FLAT | A |
| 354-280317-00 | .600" | .060" | 1.32" | .276" - .286" | .100" - .870" | CONICAL | CROWNED | A |
| 354-280318-00 | .600" | .060" | 2.03" | .276" - .286" | .810" - 1.58" | CONICAL | CROWNED | A |
| 354-280319-00 | .600" | .060" | 2.73" | .276" - .286" | 1.52" - 2.29" | TRIANGLE | CROWNED | A |
| 354-280305-00 | 1.25" | .090" | 1.23" | .281" - .291" | .530" - .920" | CONICAL | BINDER | A |
| 354-310101-00 | .380" x .500" | .090" | .540" | .315" - .325" | .093" - .400" | BLUNT | CROWNED* | A |
| 354-310102-00 | .500" | .050" | .660" | .312" - .325" | .130" - .500" | BLUNT | BINDER | A |
| 2622-00 | .750" | .120' | 1.12" | .374" - .414" | .395" - .700" | CONICAL | BINDER | B |

* Part is modified and different from the diagram.
Please call for a complete drawing or samples of the part.

**Point Style**




**Material: Nylon.**
**Formulations to suit specific applications are available.**

**Color: Natural, black - custom available.**

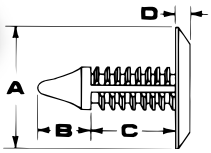
**Note: Listed dimensions are nominal**

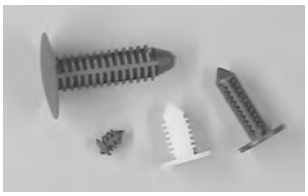


™ ITW Fastex

## PINE TREE CLIP® REMOVABLE STYLE

NON-CORROSIVE

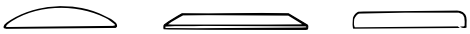


- **Patented design assures that retaining fins will not be damaged or distort upon removal.**
- **Removable feature excellent for field use.**
- **Easy to install by hand.**

| PINE-TREE CLIP REMOVABLE PART NUMBER | DIMENSIONS | | | MOUNTING | | |
|---|---|---|---|---|---|---|
| | HEAD DIA. "A" | PRONG LENGTH "B+C" | HEAD HEIGHT "D" | HOLE DIAMETER | GRIP RANGE | HEAD STYLE |
| 36030001 | .216" | .386" | .060" | .118" | .069" - .197" | FLAT |
| 36030002 | .216" | .661" | .060" | .118" | .160" - .472" | FLAT |
| 260500 | .187" | .220" | .040" | .125" | .045" - .070" | ROUND |
| 36050001 | .433" | .496" | .040" | .197" | .067" - .315" | FLAT |
| 36050003 | .433" | .700" | .040" | .197" | .060" - .430" | FLAT |
| 261900 | .472" | .472" | .098" | .236" | .079" - .236" | ROUND |
| 36063007 | .728" | .749" | .100" | .250" | .028" - .510" | ROUND |
| 36063009 | .625" | .649" | .060" | .250" | .173" - .394" | ROUND |
| 261701 | .625" | .791" | .060" | .250" | .173" - .571" | ROUND |
| 36063022 | .728" | .433" | .090" | .250" | .030" - .291" | ROUND |
| 36070015 | .748" | 1.31" | .060" | .276" | .063" - 1.00" | ROUND |
| 36070005* | 1.00" | .787" | .118" | .276" | .080" - .532" | ROUND |
| 36070007* | 1.00" | 1.46" | .118" | .276" | .080" - 1.26" | ROUND |
| 36070010 | .748" | 1.08" | .060" | .276" | .138" - .710" | ROUND |
| 36079005 | 1.00" | .945" | .118" | .311" | .040" - .472" | ROUND |
| 36079004 | .752" | .895" | .106" | .311" | .025" - .512" | CROWNED |
| 36079010* | 1.00" | .560" | .118" | .311" | .040" - .433" | ROUND |

**Head Styles**



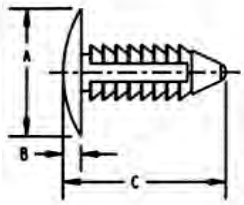
Round Flat Crowned

**Material:** Nylon
**Color:** Black - custom available
**Note:** Listed dimensions are nominal

* Parts feature a textured head

## PINE TREE CLIP® NON-REMOVABLE STYLE

NON-CORROSIVE






- **Circular fin assures part cannot be pried out of the installation.**
- **Vandalism resistant.**
- **Very secure.**
- **Easy to install by hand.**

| PINE-TREE CLIP NON-REMOVABLE PART NUMBER | DIMENSIONS | | | MOUNTING | | |
|---|---|---|---|---|---|---|
| | HEAD DIA. "A" | PRONG LENGTH "C-B" | HEAD HEIGHT "B" | HOLE DIAMETER | GRIP RANGE | HEAD STYLE |
| 39050001 | .394" | .475" | .040" | .197" | .063" - .252" | BINDER |
| 39050006 | .395" | .580" | .040" | .197" | .090" - .400" | BINDER |
| 39063010 | .700" | .800" | .100" | .250" | .098" - .472" | BINDER |
| 39065005 | .700" | .510" | .100" | .250" | .078" - .236" | BINDER |
| 39088501 | .630" | .752" | .098" | .340" | .055" - .395" | BINDER |
| 39100001 | .846" | 1.12" | .157" | .394" | .060" - 787" | BINDER |

**Material:** Nylon
**Color:** Black - custom available
**Note:** Listed dimensions are nominal





**Non-removable, vandalism resistant drive rivets can be found on page 219.**





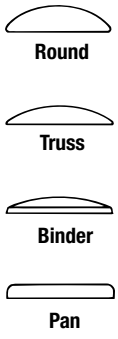
® ITW Fastex

- **Cost-effective, lightweight panel fastener.**
- **Easy, hand installation in round hole.**
- **Non-corrosive material.**

## CANOE® CLIPS

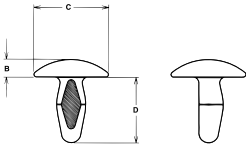
| CANOE CLIP PART NUMBER | DIMENSIONS | | | MOUNTING | | HEAD STYLE |
|---|---|---|---|---|---|---|
| | HEAD HEIGHT "B" | HEAD DIAMETER "C" | PRONG LENGTH "D" | HOLE DIAMETER | GRIP RANGE | |
| 254-080845-00 | .040" | .270" | .330" | .123" - .127" | .080" - .100" | BINDER |
| 254-090401-00 | .150" | .406" | .275" | .131" - .141" | .060" - .090" | ROUND |
| 254-090501-00 | .100" | .406" | .365" | .131" - .141" | .080" - .125" | ROUND |
| 254-090501-01 | .100" | .300" | .365" | .131" - .141" | .080" - .125" | ROUND |
| 254-090601-00 | .100" | .406" | .437" | .131" - .141" | .115" - .160" | ROUND |
| 254-090601-01 | .100" | .300" | .437" | .131" - .141" | .115" - .160" | ROUND |
| 254-090301-00 | .060" | .300" | .330" | .135" - .140" | .060" - .070" | ROUND |
| 254-120601-00 | .060" | .375" | .437" | .182" - .192" | .100" - .160" | TRUSS |
| 254-160801-00 | .055" | .500" | .630" | .240" - .260" | .095" - .218" | TRUSS |
| 254-160801-01 | .090" | .875" | .630" | .240" - .260" | .095" - .218" | TRUSS |
| 254-160801-03 | .055" | .750" | .630" | .240" - .260" | .095" - .218" | TRUSS |
| 254-160801-02 | .060" | .450" | .460" | .240" - .260" | .095" - .218" | PAN |

**Head Styles**






NON-CORROSIVE



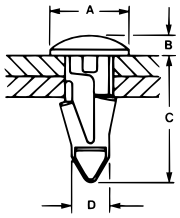

**Material: Nylon** **Color: Natural, black - custom available**

- **Secure fastening.**
- **Non-removable from front, removable from rear.**
- **Easy, hand installation in round hole.**

## STALOK™ FASTENERS

| STALOK PART NUMBER | DIMENSIONS | | | | MOUNTING | |
|---|---|---|---|---|---|---|
| | HEAD DIA. "A" | HEAD HEIGHT "B" | PRONG LENGTH "C" | PRONG DIA. "D" | HOLE DIAMETER | GRIP RANGE |
| 215-120106-00 | .325" | .075" | .586" | .187" | .182" - .192" | .125" - .160" |
| 215-120106-02 | .437" | .148" | .596" | .187" | .182" - .192" | .125" - .160" |
| 215-120106-03 | .375" | .093" | .607" | .187" | .182" - .192" | .130" - .175" |





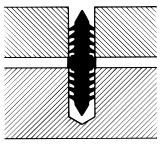

NON-CORROSIVE

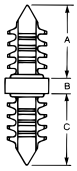
**Material: Nylon** **Color: Natural**

## DOUBLE-END CHRISTMAS TREE™

NON-CORROSIVE

- **Completely blind.**
- **Secure and non-corrosive.**





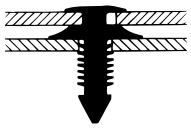

| DOUBLE END PART NUMBER | "A" SIDE MOUNTING | | HEAD HEIGHT "B" | "B" SIDE MOUNTING | |
|---|---|---|---|---|---|
| | HOLE DIA. | GRIP RANGE | | HOLE DIA. | GRIP RANGE |
| 354-201960-00 | .320" | .125" - .375" | .040" | .320" | .140" - .750" |
| 354-162200-00 | .156" | .105" - .250" | .067" | .156" | .105" - .250" |
| 2610-00 | .250" | .020" - .270" | .110" | .250" | .020" - .270" |
| 2627-00 | .320" | .095" - .300" | .040" | .320" | .095" - .300" |

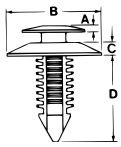
Please Call for Additional Dimensions or Samples

## DOUBLE-HEAD CHRISTMAS TREE™

NON-CORROSIVE

- **Twist-action secures top panel, then top panel assembly is pushed into second panel or frame.**






**Material: Nylon**
**Color: Natural**

| DOUBLE HEAD PART NUMBER | SPIN-IN HEAD MOUNTING | | GAP "C" | CHRISTMAS TREE MOUNTING | |
|---|---|---|---|---|---|
| | HOLE DIA. | PANEL THICKNESS | | HOLE DIA. | GRIP RANGE |
| 354-280113-00 | .394" | .050" - .080" | .020" | .281" | .030" - .220" |
| 354-280103-00 | .370" | .080" - .110" | .105" | .281" | .030" - .470" |



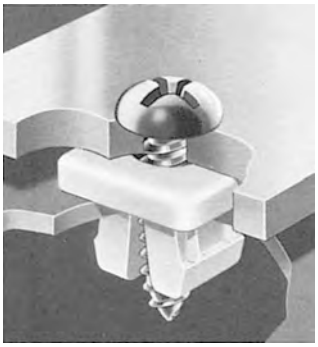
® ITW Fastex

# PANEL FASTENERS
## SCREW GROMMETS

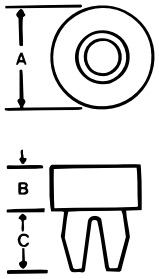
### PLASTI-GROMMETS™

NON-CORROSIVE

- **Easy "snap-in" installation.**
- **Self-retaining in the panel.**
- **Works as a panel stand-off.**
- **Spreads load over a large area to achieve high load bearing capacity.**
- **Insulates at fastening point against electrolytic action.**
- **Non-conductive, non-corrosive.**



| PLATI-GROMMETS PART NUMBER | DIMENSIONS | | | MOUNTING | | SCREW SIZE |
|---|---|---|---|---|---|---|
| | HEAD SIZE "A" | HEAD HEIGHT "B" | PRONG LENGTH "C" | HOLE SIZE | PANEL THICKNESS | |
| **SQUARE HEAD STYLE** | | | | | | |
| **212-110302-00** | .218" SQUARE | .050" | .228" | .175" SQUARE | .031" - .078" | 4 |
| **212-160404-08** | .375" SQUARE | .189" | .291" | .253" SQUARE | .031" - .109" | 6 |
| **212-180402-91** | .375" SQUARE | .305" | .296" | .273" SQUARE | .031" - .109" | 6 |
| **242-160502-70** | .375" SQUARE | .031" | .296" | .250" SQUARE | .031" - .125" | 6 or 8 |
| **242-170602-83** | .375" SQUARE | .035" | .335" | .275" SQUARE | .031" - .140" | 6 or 8 |
| **242-170602-80** | .375" SQUARE | .033" | .340" | .273" SQUARE | .031" - .156" | 8 |
| **242-170602-84** | .375" SQUARE | .035" | .340" | .283" SQUARE | .031" - .156" | 8 |
| **212-180402-06** | .406" SQUARE | .030" | .296" | .273" SQUARE | .031" - .109" | 8 or 10 |
| **242-180602-90** | .406" SQUARE | .033" | .340" | .283" SQUARE | .031" - .156" | 8 or 10 |
| **242-180602-91** | .406" SQUARE | .062" | .340" | .283" SQUARE | .031" - .156" | 8 or 10 |
| **212-180602-10** | .375" SQUARE | .045" | .359" | .284" SQUARE | .031" - .156" | 8 or 10 |
| **212-180402-55** | .500" SQUARE | .125" | .296" | .284" SQUARE | .031" - .109" | 8 or 10 |
| **212-240402-04** | .625" SQUARE | .078" | .340" | .383" SQUARE | .031" - .156" | 10 |
| **212-240602-04** | .625" SQUARE | .078" | .359" | .375" SQUARE | .031" - .156" | 1/4-20 |
| **212-240402-00** | .625" SQUARE | .078" | .286" | .378" SQUARE | .031" - .109" | 1/4-20 |
| **212-270402-01** | .562" SQUARE | .078" | .327" | .428" SQUARE | .031" - .109" | 5/16-18 |
| **CIRCULAR HEAD STYLE** | | | | | | |
| **212-170602-37** | .500" DIAMETER | .500" | .340" | .283" SQUARE | .031" - .156" | 8 |
| **212-170402-01** | .375" DIAMETER | .672" | .296" | .273" SQUARE | .031" - .109" | 8 or 10 |
| **212-180402-66** | .500" DIAMETER | .250" | .296" | .273" SQUARE | .031" - .109" | 8 or 10 |
| **212-180402-73** | .500" DIAMETER | .937" | .296" | .273" SQUARE | .031" - .109" | 8 or 10 |
| **212-170602-05** | .500" DIAMETER | 1.375" | .296" | .273" SQUARE | .031" - .109" | 8 or 10 |
| **212-180402-11** | .562" DIAMETER | .562" | .296" | .273" SQUARE | .031" - .109" | 8 or 10 |
| **212-180402-40** | .493" DIAMETER | .375" | .296" | .283" SQUARE | .031" - .109" | 8 or 10 |
| **212-180402-38** | .493" DIAMETER | .500" | .296" | .283" SQUARE | .031" - .109" | 8 or 10 |
| **212-180402-37** | .493" DIAMETER | .625" | .296" | .283" SQUARE | .031" - .093" | 8 or 10 |
| **212-180402-51** | .493" DIAMETER | .687" | .296" | .283" SQUARE | .031" - .109" | 8 or 10 |
| **212-180402-53** | .493" DIAMETER | .750" | .296" | .283" SQUARE | .031" - .109" | 8 or 10 |
| **242-180602-92** | .500" DIAMETER | .098" | .340" | .283" SQUARE | .031" - .156" | 8 or 10 |
| **242-180602-93** | .500" DIAMETER | .130" | .340" | .283" SQUARE | .031" - .156" | 8 or 10 |
| **212-180402-15** | .500" DIAMETER | .250" | .296" | .283" SQUARE | .031" - .109" | 8 or 10 |
| **212-180402-69** | .500" DIAMETER | .312" | .296" | .283" SQUARE | .031" - .109" | 8 or 10 |
| **212-180602-13** | .500" DIAMETER | .375" | .340" | .283" SQUARE | .031" - .156" | 8 or 10 |
| **212-180402-83** | .547" DIAMETER | 1.062" | .296" | .283" SQUARE | .031" - .109" | 8 or 10 |
| **242-210602-10** | .562" DIAMETER | .062" | .340" | .337" SQUARE | .031" - .156" | 1/4-20 |
| **212-240402-07** | .687" DIAMETER | .375" | .340" | .383" SQUARE | .031" - .156" | 1/4-20 |
| **212-240602-00** | .687" DIAMETER | .469" | .340" | .383" SQUARE | .031" - .156" | 1/4-20 |
| **RECTANGULAR HEAD STYLE** | | | | | | |
| **212-170602-00** | .500" x .750"" RECTANGLE | .040" | .340" | .273" SQUARE | .031" - .156" | 8 or 10 |




**Material:** Nylon

**Color:** Natural - custom available.

**Note:** Listed dimensions are nominal.

**For detailed material specifications and product strength guidelines.**

**www.clancey.com**





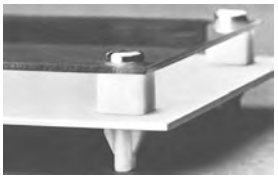
clancey DESIGN DISTRIBUTOR

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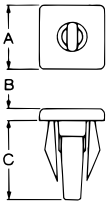
## ENCLOZ® SCREW GROMMETS

- **Easy "snap-in" installation.**
- **Encloz grommet captures the end of the metal screw providing electrical insulation and protecting against temperature/moisture transfer and exposed screw points.**
- **Acts as a panel stand-off.**
- **Non-conductive, non-corrosive.**

NON-CORROSIVE



| ENCLOZ SCREW GROMMETS PART NUMBER | DIMENSIONS | | | MOUNTING | | SCREW SIZE |
|---|---|---|---|---|---|---|
| | HEAD SIZE "A" | HEAD HEIGHT "B" | PRONG LENGTH "C" | HOLE SIZE | PANEL THICKNESS RANGE | |
| 217-180502-22 | .380" SQUARE | .125" | .490" | .273" SQUARE | .020" - .140" | 8 or 10 |
| 217-180502-24 | .380" SQUARE | .250" | .480" | .273" SQUARE | .020" - .140" | 8 or 10 |
| 217-180502-26 | .380" SQUARE | .375" | .490" | .273" SQUARE | .020" - .140" | 8 or 10 |
| 217-180502-35 | .380" SQUARE | .030" | .490" | .271" SQUARE | .020" - .140" | 8 or 10 |
| 217-180502-04 | .380" SQUARE | .250" | .490" | .283" SQUARE | .020" - .140" | 8 or 10 |
| 217-180502-05 | .380" SQUARE | .312" | .490" | .283" SQUARE | .020" - .140" | 8 or 10 |
| 217-180502-06 | .380" SQUARE | .375" | .490" | .283" SQUARE | .020" - .140" | 8 or 10 |
| 217-180502-08 | .380" SQUARE | .500" | .490" | .283" SQUARE | .020" - .140" | 8 or 10 |
| 217-200502-06 | .380" SQUARE | .380" | .480" | .312" SQUARE | .020" - .140" | 8 or 10 |
| 217-200502-08 | .380" SQUARE | .500" | .480" | .312" SQUARE | .020" - .140" | 8 or 10 |



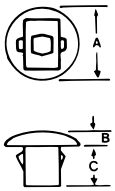

**Material:** Nylon **Color:** Natural **Note:** Listed dimensions are nominal

## ENCLOZ® REVERSE SCREW GROMMETS

- **Ideal when components are fastened from the opposite side of the panel.**
- **Non-conductive, captures the screw.**
- **Attractive decorative head.**

NON-CORROSIVE

| ENCLOZ REVERSE SCREW GROMMETS PART NUMBER | DIMENSIONS | | | MOUNTING | | SCREW SIZE |
|---|---|---|---|---|---|---|
| | HEAD SIZE "A" | HEAD HEIGHT "B" | PRONG LENGTH "C" | HOLE SIZE | PANEL THICK-NESS RANGE | |
| 212-320602-01 | .500" DIAMETER | .095" | .397" | .250" x .343" | .040" - .060" | 8 |
| 212-320334-00 | .500" DIAMETER | .100" | .525" | .312" x .343" | .062" - .092" | 8 |





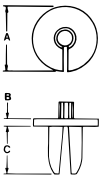

## ROUND HOLE SCREW GROMMETS

- **Insulated screw grommet for round hole mounting.**
- **Special pin provides friction fit into the hole.**

NON-CORROSIVE

| ROUND HOLE SCREW GROMMET PART NUMBER | DIMENSIONS | | | MOUNTING | | SCREW SIZE |
|---|---|---|---|---|---|---|
| | HEAD SIZE "A" | HEAD HEIGHT "B" | PRONG LENGTH "C" | HOLE SIZE | PANEL THICKNESS RANGE* | |
| 212-250301-00 | .500" DIAMETER | .060" | .390" | .248" - .265" DIA. | .020" - .250" | 8 |

* panel hole size will vary with panel thickness



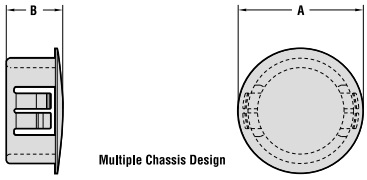



**Material:** Nylon
**Color:** Natural
**Note:** Listed dimensions are nominal

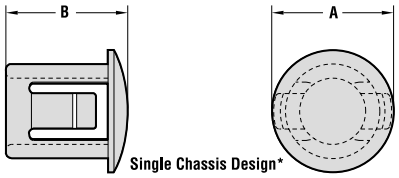
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# PANEL FASTENERS
## HOLE PLUGS





Multiple Chassis Design



Single Chassis Design*

## DOMED PLUGS

INCH

- **Convex head tapers to a thin edge.**
- **Wide range of hole sizes and panel thicknesses.**
- **Custom colors are available.**

| PART NUMBER | | DIMENSIONS | | MOUNTING | |
|---|---|---|---|---|---|
| BLACK | WHITE | HEAD DIAMETER "A" | OVERALL HEIGHT "B" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 2590 | 2591 | .250" | .234" | .062" | .187" |
| 2603 | 2604 | .312" | .312" | .062" | .250" |
| 2613 | 2614 | .375" | .312" | .062" | .312" |
| 2617 | 2618 | .468" | .406" | .125" | .375" |
| 2633 | 2634 | .531" | .406" | .125" | .437" |
| 2643 | 2644 | .578" | .406" | .125" | .500" |
| 2653 | 2654 | .656" | .406" | .125" | .562" |
| 2663 | 2664 | .718" | .406" | .125" | .625" |
| 2673 | 2674 | .781" | .406" | .125" | .687" |
| 2683 | 2684 | .921" | .406" | .125" | .750" |
| 2693 | 2694 | .890" | .406" | .125" | .812" |
| 2703 | 2704 | 1.015" | .453" | .125" | .875" |
| 2713 | 2714 | 1.203" | .453" | .125" | 1.000" |
| 2723 | 2724 | 1.218" | .453" | .125" | 1.125" |
| 2733 | 2734 | 1.312" | .453" | .125" | 1.187" |
| 2740 | 2741 | 1.375" | .453" | .125" | 1.250" |
| 2753 | 2754 | 1.500" | .453" | .125" | 1.375" |
| 2763 | 2764 | 1.671" | .453" | .125" | 1.500" |
| 2773 | 2774 | 1.906" | .453" | .125" | 1.750" |
| 2783 | 2784 | 2.170" | .469" | .125" | 2.000" |
| 2403 | 2404 | 2.343" | .760" | .250" | 2.125" |
| 2411 | 2412 | 2.422" | .750" | .250" | 2.250" |
| 2790 | 2791 | 2.718" | .750" | .250" | 2.500" |
| 2455 | 2456 | 3.171" | .750" | .250" | 3.000" |
| 2482 | 2483 | 3.656" | .750" | .250" | 3.375" |
| 2464 | 2465 | 3.656" | .750" | .250" | 3.500" |
| 2473 | 2474 | 4.156" | .750" | .250" | 4.000" |
| 2451 | 2452 | 5.219" | .781" | .250" | 5.000" |
| 2453 | 2454 | 6.219" | .781" | .250" | 6.000" |

**Material:** Nylon
**Certifications:** E-15331, LR-8919
**Flammability rating:** 94V-2

## HALOGEN-FREE 94V-0 DOME PLUGS

INCH

- **Same features as standard dome plugs in a halogen-free material.**

| PART NUMBER | DIMENSIONS | | MOUNTING | |
|---|---|---|---|---|
| BLACK UL94V-0 | HEAD DIAMETER "A" | OVERALL HEIGHT "B" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 2593* | .265" | .240" | .062" | .187" |
| 2606* | .312" | .312" | .062" | .250" |
| 2616* | .375" | .312" | .062" | .312" |
| 2623 | .468" | .406" | .125" | .375" |
| 2636 | .531" | .406" | .125" | .437" |
| 2646 | .578" | .406" | .125" | .500" |
| 2666 | .718" | .406" | .125" | .625" |
| 2686 | .921" | .406" | .125" | .750" |
| 2706 | 1.015" | .453" | .125" | .875" |
| 2716 | 1.203" | .453" | .125" | 1.000" |
| 2729 | 1.218" | .453" | .125" | 1.125" |

* Single chassis design.

**Material:** Nylon
**Certifications:** E-15331, LR-8919
**Flammability rating:** 94 V-0

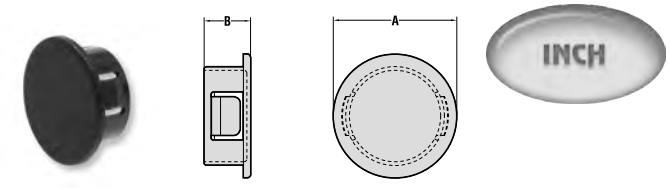
## DOME PLUGS

METRIC

| PART NUMBER | | DIMENSIONS | | MOUNTING | |
|---|---|---|---|---|---|
| BLACK | WHITE | HEAD DIAMETER "A" | OVERALL HEIGHT "B" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 2128 | 2130 | 18.5 mm | 10.3 mm | 2.5 mm | 16 mm |
| 2131 | 2132 | 22.6 mm | 10.3 mm | 2.5 mm | 20 mm |
| 2133 | 2134 | 29.8 mm | 11.5 mm | 2.5 mm | 25 mm |
| 2135 | 2136 | 35.3 mm | 11.5 mm | 2.5 mm | 32 mm |

**Material:** Nylon
**Certifications:** E-15331, LR-8919
**Flammability rating:** 94V-2

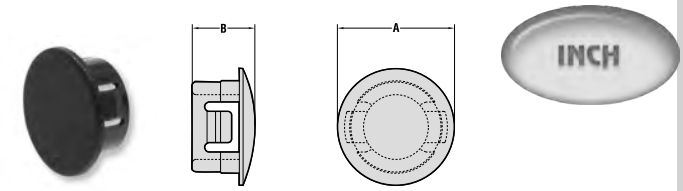
## PRY-OUT PLUGS




- **Removable for access or re-use of the hole.**
- **Can act as a bumper (head thickness .063").**
- **Flat, matte finish.**

| PART NUMBER | | DIMENSIONS | | MOUNTING | |
|---|---|---|---|---|---|
| BLACK | WHITE | HEAD DIAMETER "A" | OVERALL HEIGHT "B" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 3053 | 3054 | .421" | .328" | .156" | .250" |
| 3056 | 3057 | .510" | .406" | .172" | .312" |
| 3059 | 3060 | .578" | .312" | .172" | .375" |
| 3062 | 3063 | .609" | .406" | .172" | .437" |
| 3065 | 3066 | .671" | .406" | .172" | .500" |
| 3068 | 3069 | .734" | .406" | .172" | .562" |
| 3071 | 3072 | .796" | .406" | .172" | .625" |
| 3074 | 3075 | .890" | .406" | .172" | .687" |
| 3077 | 3078 | .968" | .406" | .172" | .750" |
| 3080 | 3081 | 1.031" | .406" | .172" | .812" |
| 3083 | 3084 | 1.078" | .406" | .172" | .875" |
| 3086 | 3087 | 1.218" | .406" | .172" | 1.000" |
| 3089 | 3090 | 1.296" | .406" | .172" | 1.093" |
| 3092 | 3093 | 1.406" | .406" | .172" | 1.187" |
| 3095 | 3096 | 1.453" | .406" | .172" | 1.250" |
| 3098 | 3099 | 1.578" | .453" | .172" | 1.375" |
| 3124 | 3125 | 1.718" | .453" | .250" | 1.500" |

## SHORTY PLUGS

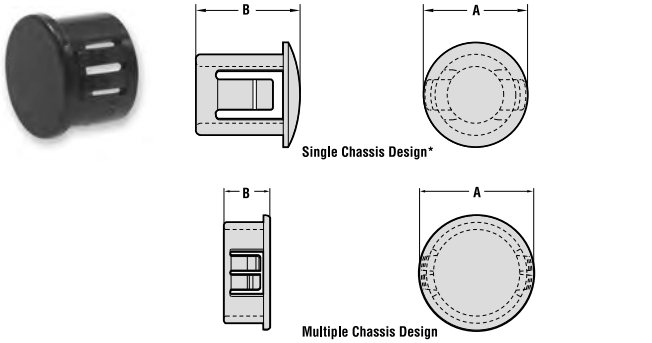



- **Limited internal protrusion.**
- **Locks firmly in panel.**
- **Quick, easy hand installation.**

| PART NUMBER | | DIMENSIONS | | MOUNTING | |
|---|---|---|---|---|---|
| BLACK | WHITE | HEAD DIAMETER "A" | OVERALL HEIGHT "B" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 1654 | 1655 | .281" | .250" | .062" | .218" |
| 1660 | 1661 | .343" | .250" | .062" | .281" |
| 1678 | 1679 | .375" | .250" | .062" | .312" |
| 1663 | 1664 | .406" | .250" | .062" | .343" |
| 1681 | 1682 | .468" | .250" | .062" | .375" |
| 1666 | 1667 | .468" | .250" | .062" | .406" |
| 1684 | 1685 | .531" | .250" | .062" | .437" |
| 1669 | 1670 | .531" | .250" | .062" | .468" |
| 1687 | 1688 | .563" | .250" | .062" | .500" |
| 1672 | 1673 | .593" | .250" | .062" | .531" |
| 1675 | 1676 | .687" | .250" | .062" | .593" |
| 1690 | 1691 | .718" | .250" | .062" | .625" |
| 1693 | 1694 | .843" | .250" | .062" | .750" |
| 1696 | 1697 | .890" | .250" | .062" | .781" |
| 1699 | 1700 | .968" | .250" | .062" | .875" |
| 1702 | 1703 | 1.200" | .250" | .062" | 1.000" |

## GLOSSY PLUGS

- **Smooth glossy head has shiny finish.**
- **Can also act as a glide.**




| PART NUMBER | | DIMENSIONS | | MOUNTING | |
|---|---|---|---|---|---|
| BLACK | WHITE | HEAD DIAMETER "A" | OVERALL HEIGHT "B" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 2600* | 2601* | .312" | .312" | .062" | .250" |
| 2610* | 2611* | .375" | .312" | .062" | .312" |
| 2620 | 2621 | .468" | .406" | .125" | .375" |
| 2630 | 2631 | .531" | .406" | .125" | .437" |
| 2640 | 2641 | .563" | .406" | .125" | .500" |
| 2650 | 2651 | .656" | .406" | .125" | .562" |
| 2660 | 2661 | .734" | .406" | .125" | .625" |
| 2680 | 2681 | .859" | .406" | .125" | .750" |
| 2700 | 2701 | .953" | .453" | .125" | .875" |
| 2710 | 2711 | 1.125" | .453" | .125" | 1.000" |
| 2720 | 2721 | 1.218" | .453" | .125" | 1.125" |
| 2730 | 2731 | 1.312" | .453" | .125" | 1.187" |

* Single chassis design.

**(All Items) Material:** Nylon
**Certifications:** E-15331 LR-8919
**Flammability rating:** 94V-2

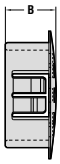
# PANEL FASTENERS
## HOLE PLUGS

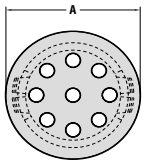
### VENT PLUGS

INCH

- Allows air to flow and heat to escape.
- Locks firmly into panel.
- Quick, easy hand installation.






| PART NUMBER | | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|---|
| BLACK | WHITE | HEAD DIAMETER "A" | OVERALL HEIGHT "B" | NUMBER OF HOLES | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 2637 | 2638 | .578" | .406" | 4 | .156" | .250" |
| 2657 | 2658 | .734" | .406" | 5 | .172" | .312" |
| 2677 | 2678 | .906" | .406" | 8 | .172" | .375" |
| 2697 | 2698 | 1.015" | .453" | 9 | .172" | .437" |
| 2707 | 2708 | 1.203" | .453" | 9 | .172" | .500" |
| 2726 | 2727 | 1.218" | .453" | 9 | .172" | .562" |
| 2743 | 2744 | 1.375" | .453" | 10 | .172" | .625" |
| 2797 | ---- | 1.375" | .453" | 4 | .172" | .687" |
| 2756 | 2757 | 1.500" | .453" | 11 | .172" | .750" |
| 2766 | 2767 | 1.671" | .453" | 13 | .172" | .812" |
| 2776 | 2777 | 1.906" | .453" | 13 | .172" | .875" |
| 2786 | 2787 | 2.140" | .468" | 19 | .172" | 1.000" |
| 2793 | 2794 | 2.718" | .750" | 19 | .172" | 1.093" |
| 2458 | 2459 | 3.171" | .750" | 26 | .172" | 1.187" |
| 2467 | 2468 | 3.656" | .750" | 38 | .172" | 1.250" |
| 2476 | 2477 | 4.156" | .750" | 48 | .172" | 1.375" |

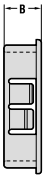
**Material:** Nylon
**Certifications:** E-15331
LR-8919
**Flammability rating:** 94V-2

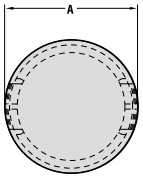
### WINDOW PLUGS

INCH

- Allows viewing inside of enclosure.
- Locks firmly into panel.
- Quick, easy hand installation.






Multiple Chassis Design

| PART NUMBER | | DIMENSIONS | | MOUNTING | |
|---|---|---|---|---|---|
| BLACK | WHITE | HEAD DIAMETER "A" | OVERALL HEIGHT "B" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 1300* | 4300* | .250" | .234" | .062" | .187" |
| 1301* | 4301* | .312" | .312" | .062" | .250" |
| 1302* | 4302* | .375" | .312" | .062" | .312" |
| 1303 | 4303 | .468" | .406" | .125" | .375" |
| 1304 | 4304 | .531" | .406" | .125" | .437" |
| 1305 | 4305 | .563" | .406" | .125" | .500" |
| 1307 | 4307 | .734" | .406" | .125" | .625" |
| 1309 | 4309 | .859" | .406" | .125" | .750" |
| 1311 | 4311 | .953" | .453" | .125" | .875" |
| 1312 | 4312 | 1.125" | .453" | .125" | 1.000" |
| 1313 | 4313 | 1.218" | .453" | .125" | 1.125" |
| 1314 | 4314 | 1.468" | .453" | .125" | 1.375" |
| 1316 | 4316 | 1.609" | .453" | .125" | 1.500" |
| 1318 | 4318 | 1.875" | .453" | .125" | 1.750" |
| 1319 | 4319 | 2.157" | .453" | .125" | 2.000" |

* Single chassis design

**Material:** ABS-Clear Lexan-Clear
**Flammability rating:** ABS – 94HB
Lexan 94V-2

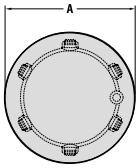
### INSULATION PLUGS

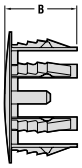
INCH

- Closes cavity-fill insulation holes in wood and other siding materials.
- Convex, matte finish blends with siding.
- Holds securely in hole.
- Quick, easy hand installation .

**Material:** Nylon
**Flammability Rating:** 94V-2





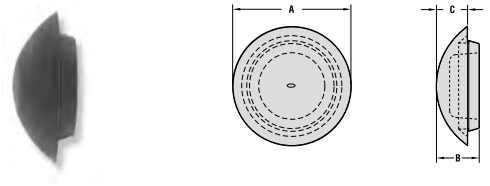




| PART NUMBER | | DIMENSIONS | | MOUNTING | |
|---|---|---|---|---|---|
| BLACK | WHITE | HEAD DIAMETER "A" | OVERALL HEIGHT "B" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 3149 | 3150 | 1.234" | .687" | NO MAX. | 1.000" |

## LIQUID TIGHT KNOCK-OUT SEALS

- Oil tight, rain tight, submersible.
- Fits standard knock-out holes.
- Quick, easy hand installation.

INCH



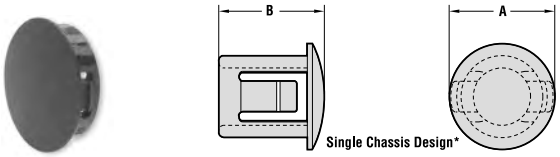

| PART NUMBER | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|
| BLACK | HEAD DIAMETER "A" | OVERALL HEIGHT "B" | HEAD HEIGHT "C" | HOLE DIAMETER | MAXIMUM PANEL THICKNESS |
| 3833 | 1.28" | .500" | .359" | .875" | .125" |
| 3835 | 1.53" | .546" | .390" | 1.093" | .125" |
| 3837 | 1.80" | .562" | .421" | 1.375" | .125" |

**Material:** Santoprene 251-80
**Certifications:** E-28430, LR-81067
**Flammability rating:** 94V-0

## KNOCK-OUT SEALS

- Plugs electrical knock-outs.
- Silver gray color to match galvanized steel.
- Fits standard knock-out holes.

INCH



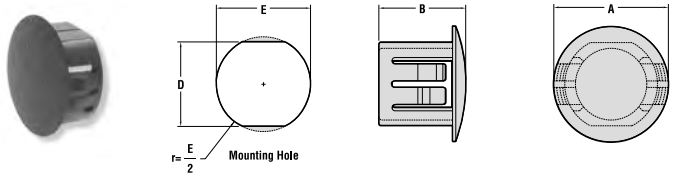

| TRADE SIZE | PART NUMBER | DIMENSIONS | | MOUNTING | |
|---|---|---|---|---|---|
| | SILVER GRAY | HEAD DIAMETER "A" | OVERALL HEIGHT "B" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 1/2" | 3997 | 1.015" | .453" | .125" | .875" |
| 3/4" | 3998 | 1.218" | .453" | .125" | 1.093" |
| 1" | 3999 | 1.500" | .453" | .125" | 1.375" |
| 1-1/4" | 4000 | 1.906" | .453" | .125" | 1.750" |
| 1-1/2" | 4001 | 2.140" | .453" | .125" | 2.000" |
| 2" | 4002 | 2.750" | .750" | .250" | 2.500" |

**Material:** Santoprene 251-80
**Certifications:** E-15331, LR-8919
**Flammability rating:** 94V-2

## DOUBLE "D" PLUGS

- Plugs standard strain relief holes and other double "D" holes.
- Installs quickly, locks firmly.

INCH



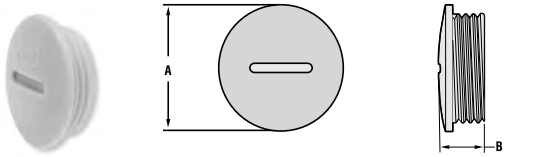

| PART NUMBER | | DIMENSIONS | | MOUNTING | | |
|---|---|---|---|---|---|---|
| BLACK | WHITE | HEAD DIAMETER "A" | OVERALL HEIGHT "B" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER "E" | ANTI-ROTATION "D" |
| 2488 | 2489 | .531" | .406" | .125" | .437" | .390" |
| 2491 | 2492 | .578" | .406" | .125" | .500" | .445" |
| 2494 | 2495 | .656" | .406" | .125" | .562" | .530" |
| 2497 | 2498 | .718" | .406" | .125" | .625 | .550" |
| 2503 | 2504 | .921" | .453" | .125" | .750" | .625" |
| 2509 | 2510 | 1.016" | .453" | .125" | .875" | .770" |

**Material:** Nylon
**Flammability Rating:** 94V-2
**Certifications:** E-15331, LR-8919

## PG THREADED PLUGS

- Threads into standard "PG" conduit threads.
- Slotted head for easy installation/removal.

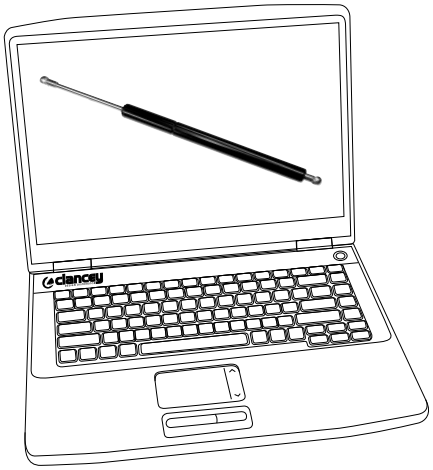
INCH




| THREAD TYPE/SIZE | PART NUMBER | HEAD DIAMETER "A" | OVERALL HEIGHT "B" |
|---|---|---|---|
| PG 7 | 3405 | .551" (14 mm) | .315" (8 mm) |
| PG 9 | 3407 | .787" (20 mm) | .354" (9 mm) |
| PG 11 | 3402 | .866" (22 mm) | .354" (9 mm) |
| PG 13 | 3412 | .984" (25 mm) | .374" (9.5 mm) |
| PG 16 | 3414 | 1.06" (27 mm) | .374" (9.5 mm) |
| PG 21 | 3416 | 1.30" (33 mm) | .472" (12 mm) |
| PG 29 | 3418 | 1.73" (44 mm) | .472" (12 mm) |

**Material:** Polymide 6.6
**Color:** Gray

## CLANCEY – THE LEADER IN DESIGNING GAS SPRING SOLUTIONS

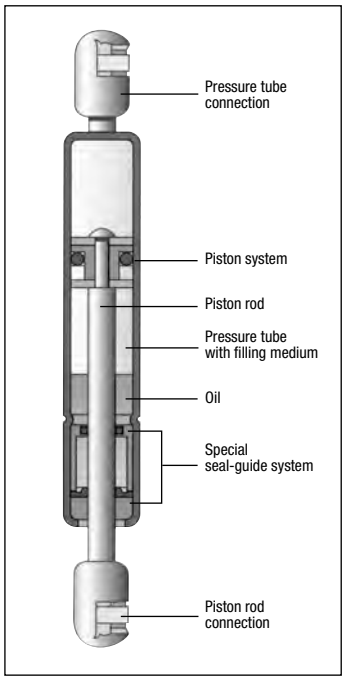


### Computer Validated Design Assistance

Clancey's Application Specialists are trained in the use of computer simulation programs designed to reduce time and costs from prototypes through production.

By applying technology we can “dial in” the desired features for your application.

- Opening force
- Closing force
- Control for temperature
- Handle load
- Auto-rise




### Highest Quality Product

Clancey partners with the best manufacturers in the business. We insist on automotive industry quality levels. When you are selecting a partner for your gas springs consider the two parts of the gas spring that have the greatest impact on its life:

Rod Quality:
Our rods are treated with the "Ni-slide" salt bath nitrating process, resulting in a rod that is exceptionally smooth and corrosion resistant. When compared with industry standard chrome rods, the gas spring you select from Clancey will have a much longer life.

Seal Package:
Clancey offers a seal package designed for the longest life. In addition to the highest quality orifice and piston stack, Clancey's gas springs offer a special seal guide system that promotes straight entry and exit resulting in longer life.

### Largest Product Variety – Design Flexibility

For custom gas springs based on application volume, Clancey offers customers the widest variety of configurations, hundreds more than other distributors. Here are but a few:

**Inter-Stop**
Gas spring which locks in 2 distinct positions.

**Bloc-o-Lift**
Multi-position, remote actuated locking gas spring.

**Electro-Lift**
Allows electrical current to transmit through the gas spring acting as a switch.

**Stainless Steel**
316 stainless steel construction for maximum corrosion resistance.

**Heavy Duty**
20 mm x 40 mm Rod and tube configurations allows forces up to 1000 lbs.

**End-Fittings**
Wide variety to suit all applications.



**A small sample of our offering.**

**Here is the information we will be looking for to assist you in selecting a gas spring that will work well in your application.**

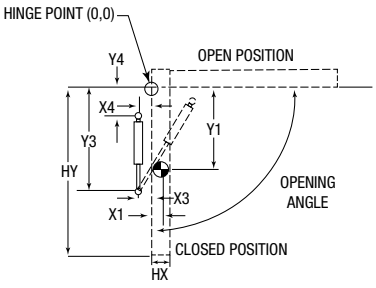
## APPLICATION DEVELOPMENT

### Section 1 - Customer and Project Information

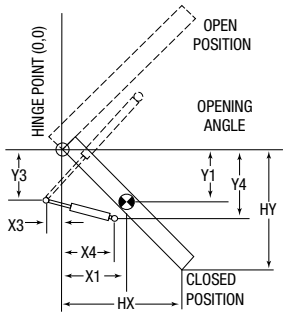
| | |
|---|---|
| Company Name: | Project Name/Number: |
| Engineering Contact: | Application Description: |
| E-mail Address: | Estimated Number of Units Annually: |
| Phone: | Start of Production Date: |

### Section 2 - Application Type (Select One of Four Options)

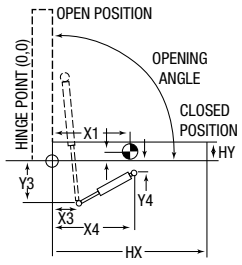
❑ **VERTICAL DOOR**



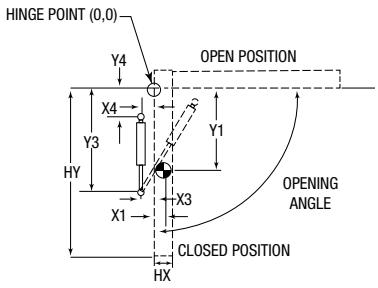

❑ **OFFSET DOOR**




❑ **HORIZONTAL DOOR**




❑ **VERTICAL HINGE (E.G., CAB DOORS)**




### Section 3 - Dynamic Requirements

*Desired Action:*

❑ Over-Center, e.g., vehicle rear hatch (most common)

❑ Auto Rise (door opens upon release of latch)

*Desired Damping:*

❑ Damped in Extension (most common)

❑ Custom Damping, e.g., damped in compression, dynamic damping _____

### Section 4 - Application Data

*Temperature:* _____ °F or _____ °C

_____ Minimum _____ Average _____ Maximum

Based on your selected application type, please give the following information (door in closed position):

*Units:* _____ mm or _____ inches

*Center of Gravity:* X1 = _____ Y1 = _____

*Handle Location:* HX = _____ HY = _____

*Opening Angle:* _____ degrees

*Total Weight of Door:* _____ lbs or _____ kg

Preferred Mounting Location (optional):

Fixed Point: X3 = _____ Y3 = _____

Moving Point: X4 = _____ Y4 = _____

Desired Handle Effort: To Open = _____ To Close = _____

Desired Number of Gas Springs Per Door: _____

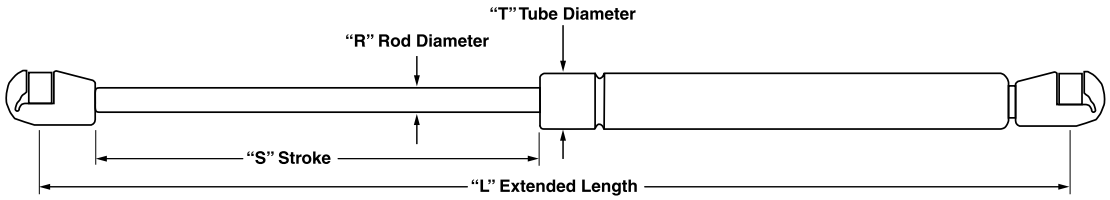
# DOOR ASSISTS
## COMPOSITE END GAS SPRINGS

CAD POWERED

### 6 mm ROD X 15 mm TUBE COMPOSITE END-FITTINGS

- Ni-Slide corrosion resistant rod.
- Corrosion resistant composite end-fitting.
- Easy "snap-on" installation.
- Many lengths, strokes, and forces are available.






**10 mm COMPOSITE**



**Order 10 mm ball studs or brackets.**

| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 6mm | 15mm | 7.5" | 2" | 20 lbs | 4533BE |
| | | | | 40 lbs | 4535BV |
| | | | | 60 lbs | 4536BQ |
| | | | | 80 lbs | 4537BL |
| 6mm | 15mm | 7.7" | 2.36" | 11.2 lbs | 6444BL |
| | | | | 22.5 lbs | 6488IU |
| | | | | 33.7 lbs | 6489IP |
| | | | | 45 lbs | 6491IW |
| | | | | 56.2 lbs | 6492IR |
| | | | | 67.4 lbs | 6493IM |
| | | | | 78.7 lbs | 6494IH |
| | | | | 90 lbs | 6495IC |
| 6mm | 15mm | 9.27" | 3.15" | 11.2 lbs | 6449IM |
| | | | | 22.5 lbs | 6501IP |
| | | | | 33.7 lbs | 6502IK |
| | | | | 45 lbs | 6503IF |
| | | | | 56.2 lbs | 6504IA |
| | | | | 67.4 lbs | 6505IW |
| | | | | 78.7 lbs | 6505IR |
| | | | | 90 lbs | 6507IM |
| 6mm | 15mm | 10" | 3" | 20 lbs | 4539BB |
| | | | | 40 lbs | 4540BN |
| | | | | 60 lbs | 4541BI |
| | | | | 80 lbs | 4542BD |
| | | | | 100 lbs | 5306BH |
| 6mm | 15mm | 10.85" | 3.94" | 11.2 lbs | 6458IL |
| | | | | 22.5 lbs | 6508IH |
| | | | | 33.7 lbs | 6509IC |
| | | | | 45 lbs | 6511IJ |
| | | | | 56.2 lbs | 6514IV |
| | | | | 67.4 lbs | 6515IQ |
| | | | | 78.7 lbs | 6516IL |
| | | | | 90 lbs | 6517IG |

| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 6mm | 15mm | 12" | 3.5" | 20 lbs | 5663BZ |
| | | | | 30 lbs | 5664BU |
| | | | | 60 lbs | 5665BP |
| | | | | 90 lbs | 5666BK |
| 6mm | 15mm | 12.42" | 4.72" | 11.2 lbs | 6462II |
| | | | | 22.5 lbs | 6519IX |
| | | | | 33.7 lbs | 6521ID |
| | | | | 45 lbs | 6522IZ |
| | | | | 56.2 lbs | 6523IU |
| | | | | 67.4 lbs | 6524IP |
| | | | | 78.7 lbs | 6525IK |
| | | | | 90 lbs | 6526IF |
| 6mm | 15mm | 14.78" | 5.91" | 11.2 lbs | 6467IK |
| | | | | 22.5 lbs | 6539IL |
| | | | | 33.7 lbs | 6541IS |
| | | | | 45 lbs | 6542IN |
| | | | | 56.2 lbs | 6543II |
| | | | | 67.4 lbs | 6544ID |
| | | | | 78.7 lbs | 6545IZ |
| 6mm | 15mm | 15" | 5.5" | 20 lbs | 5667BF |
| | | | | 40 lbs | 5668BA |
| | | | | 60 lbs | 5669BW |
| | | | | 80 lbs | 5670BH |
| 6mm | 15mm | 17" | 6" | 20 lbs | 5671BC |
| | | | | 30 lbs | 6147BR |
| | | | | 40 lbs | 6146BW |
| | | | | 60 lbs | 6148BM |
| | | | | 90 lbs | 6149BH |
| 6mm | 15mm | 20" | 8" | 20 lbs | 6150BT |
| | | | | 30 lbs | 6151BO |
| | | | | 40 lbs | 6152BJ |
| | | | | 90 lbs | 6153BE |

**Custom configurations and forces are available for high volume applications.**

info@clancey.com
800-747-7405



## 8 mm ROD X 18 mm TUBE, COMPOSITE END-FITTINGS

| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 8mm | 18mm | 9.65" | 3.15" | 22.5 lbs | 752614 |
| | | | | 35 lbs | 752622 |
| | | | | 45 lbs | 1417EP |
| | | | | 56 lbs | 752630 |
| | | | | 68 lbs | 1418EK |
| | | | | 78 lbs | 1419EF |
| | | | | 90 lbs | 752649 |
| | | | | 113 lbs | 752657 |
| | | | | 136 lbs | 752665 |
| 8mm | 18mm | 11.20" | 3.95" | 22.5 lbs | 752673 |
| | | | | 35 lbs | 752681 |
| | | | | 45 lbs | 1421EM |
| | | | | 56 lbs | 752703 |
| | | | | 68 lbs | 1422EH |
| | | | | 78 lbs | 1423EC |
| | | | | 90 lbs | 752711 |
| | | | | 113 lbs | 752738 |
| | | | | 136 lbs | 752746 |
| 8mm | 18mm | 11.89" | 3.5" | 20 lbs | 4552BY |
| | | | | 30 lbs | 4553BT |
| | | | | 60 lbs | 455BO |
| | | | | 90 lbs | 455BJ |
| | | | | 120 lbs | 4556BE |
| | | | | 150 lbs | 4558BV |
| 8mm | 18mm | 12" | 3.6" | 20 lbs | 1573ET |
| | | | | 25 lbs | 1574EO |
| | | | | 30 lbs | 1575EJ |
| | | | | 35 lbs | 1576EE |
| | | | | 40 lbs | 1578EV |
| | | | | 45 lbs | 1579EQ |
| | | | | 50 lbs | 1581EX |
| | | | | 60 lbs | 1582ES |
| | | | | 90 lbs | 3071EV |
| | | | | 100 lbs | 3072EQ |
| | | | | 140 lbs | 1583EN |
| 8mm | 18mm | 12.8" | 4.7" | 22.5 lbs | 752754 |
| | | | | 35 lbs | 752762 |
| | | | | 45 lbs | 1424EY |
| | | | | 56 lbs | 752770 |
| | | | | 68 lbs | 1425ET |
| | | | | 78 lbs | 1426EO |
| | | | | 90 lbs | 752789 |
| | | | | 113 lbs | 752797 |
| | | | | 136 lbs | 752800 |

| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 8mm | 18mm | 14.5" | 5" | 20 lbs | 4909EG |
| | | | | 25 lbs | 3073EL |
| | | | | 30 lbs | 1584EI |
| | | | | 35 lbs | 1585ED |
| | | | | 40 lbs | 1586EZ |
| | | | | 50 lbs | 1587EU |
| | | | | 65 lbs | 4634EH |
| | | | | 75 lbs | 3075EB |
| | | | | 80 lbs | 4908EL |
| | | | | 100 lbs | 1588EP |
| 8mm | 18mm | 15.25" | 5" | 20 lbs | 0365BR |
| | | | | 30 lbs | 03666BR |
| | | | | 60 lbs | 0367BM |
| | | | | 90 lbs | 0502BF |
| | | | | 120 lbs | 0503BA |
| | | | | 150 lbs | 0504BW |
| 8mm | 18mm | 15.95" | 6.3" | 22.5 lbs | 752819 |
| | | | | 35 lbs | 752827 |
| | | | | 45 lbs | 1427EJ |
| | | | | 56 lbs | 752835 |
| | | | | 68 lbs | 1428EE |
| | | | | 78 lbs | 1431EG |
| | | | | 90 lbs | 752843 |
| | | | | 113 lbs | 752851 |
| | | | | 136 lbs | 752878 |
| 8mm | 18mm | 17" | 6" | 20 lbs | 4526BW |
| | | | | 30 lbs | 4527BR |
| | | | | 60 lbs | 4528BM |
| | | | | 90 lbs | 4529BH |
| | | | | 120 lbs | 4531BO |
| | | | | 150 lbs | 4532BJ |
| 8mm | 18mm | 17.2" | 6.2" | 20 lbs | 1589EK |
| | | | | 25 lbs | 1591ER |
| | | | | 30 lbs | 3416EE |
| | | | | 35 lbs | 1592EM |
| | | | | 40 lbs | 3062EW |
| | | | | 45 lbs | 1593EH |
| | | | | 50 lbs | 1594EC |
| | | | | 55 lbs | 1595EY |
| | | | | 60 lbs | 1596ET |
| | | | | 80 lbs | 3063ER |
| | | | | 85 lbs | 1597EO |
| | | | | 90 lbs | 1598EJ |
| | | | | 110 lbs | 6334IX |
| | | | | 120 lbs | 3065EH |
| | | | | 130 lbs | 1599EE |

| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 8mm | 18mm | 19.10" | 7.9" | 22.5 lbs | 752886 |
| | | | | 35 lbs | 752894 |
| | | | | 45 lbs | 1432EB |
| | | | | 56 lbs | 752908 |
| | | | | 68 lbs | 1433EX |
| | | | | 78 lbs | 1434ES |
| | | | | 90 lbs | 752916 |
| | | | | 113 lbs | 752924 |
| | | | | 136 lbs | 752932 |
| 8mm | 18mm | 19.7" | 8" | 30 lbs | 3076EX |
| | | | | 35 lbs | 1601EK |
| | | | | 45 lbs | 1602EF |
| | | | | 55 lbs | 1603EA |
| | | | | 60 lbs | 1604EW |
| | | | | 70 lbs | 3627EG |
| | | | | 80 lbs | 3087EM |
| | | | | 85 lbs | 1605ER |
| | | | | 90 lbs | 3077ES |
| | | | | 100 lbs | 3078EN |
| | | | | 120 lbs | 1606EM |
| | | | | 130 lbs | 1607EH |
| 8mm | 18mm | 20" | 8" | 20 lbs | 0628BK |
| | | | | 30 lbs | 0629BF |
| | | | | 60 lbs | 0630BR |
| | | | | 90 lbs | 7290BH |
| | | | | 120 lbs | 5358BA |
| | | | | 150 lbs | 0631BM |
| 8mm | 18mm | 23" | 9.85" | 22.5 lbs | 752940 |
| | | | | 35 lbs | 752959 |
| | | | | 45 lbs | 1435EW |
| | | | | 56 lbs | 852967 |
| | | | | 68 lbs | 1436EI |
| | | | | 78 lbs | 1437ED |
| | | | | 90 lbs | 752975 |
| | | | | 113 lbs | 752983 |
| | | | | 136 lbs | 752991 |

**10 mm COMPOSITE**



**Order 10 mm ball studs or brackets.**

**Try this part in your application.**
**Please call for samples.**

info@clancey.com
800-747-7405

# DOOR ASSISTS
## COMPOSITE END GAS SPRINGS

CAD POWERED

### 10 mm ROD X 22 mm TUBE, COMPOSITE END-FITTINGS

- NI-Slide corrosion resistant rod.
- Corrosion resistant composite end-fitting.
- Easy "snap-on" installation.
- Many lengths, strokes, and forces are available.

| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 10mm | 22mm | 19.09" | 7.87" | 158 lbs | 1422EW |
| | | | | 180 lbs | 1443ER |
| | | | | 202 lbs | 1444EM |
| | | | | 225 lbs | 1445EH |
| 10mm | 22mm | 23.03" | 9.84" | 158 lbs | 1446EC |
| | | | | 180 lbs | 1447EY |
| | | | | 202 lbs | 1448ET |
| | | | | 225 lbs | 1449EO |
| 10mm | 22mm | 26.97" | 11.81" | 56 lbs | 1438EZ |
| | | | | 90 lbs | 753009 |
| | | | | 158 lbs | 753017 |
| | | | | 202 lbs | 753025 |
| | | | | 225 lbs | 753033 |

| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 10mm | 22mm | 28" | 11.5" | 100 lbs | 0395BI |
| | | | | 120 lbs | 0360BU |
| | | | | 150 lbs | 0361BP |
| | | | | 200 lbs | 0362BK |
| | | | | 250 lbs | 5359BW |
| 10mm | 22mm | 30.91" | 13.78" | 56 lbs | 1441EA |
| | | | | 90 lbs | 753041 |
| | | | | 158 lbs | 753068 |
| | | | | 202 lbs | 753076 |
| | | | | 225 lbs | 753084 |
| 10mm | 22mm | 34.84" | 15.75" | 56 lbs | 1441EA |
| | | | | 90 lbs | 753092 |
| | | | | 158 lbs | 753106 |
| | | | | 202 lbs | 753114 |
| | | | | 225 lbs | 753122 |

**10 mm COMPOSITE**



**Order 10 mm ball studs or brackets.**

### LIFT-N-LATCH: SAFETY LOCKING GAS SPRING

- Spring loaded mechanism locks into place when spring is at full extension.



| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 8mm | 18mm | 17.2" | 6.2" | 20 lbs | 1611EE |
| | | | | 30 lbs | 3044EY |
| | | | | 40 lbs | 5042ES |
| | | | | 50 lbs | 3045ET |
| | | | | 70 lbs | 3046EO |
| | | | | 80 lbs | 3047EJ |
| | | | | 90 lbs | 1613EV |
| | | | | 110 lbs | 3048EE |
| | | | | 130 lbs | 1614EQ |

| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 8mm | 18mm | 26.3" | 10.2" | 30 lbs | 2977ER |
| | | | | 70 lbs | 1616EG |
| | | | | 120 lbs | 4636EY |
| | | | | 160 lbs | 3238EX |
| | | | | 190 lbs | 3239EX |
| | | | | 240 lbs | 3241EZ |

**10 mm COMPOSITE**



**Order 10 mm ball studs or brackets.**

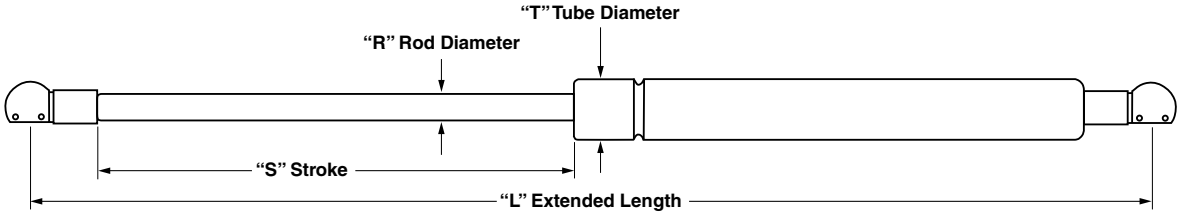
## CLANCEY RESOURCES

**You are about to select the finest gas spring available. Don't make the mistake of going it alone. Fill out the application form on the last page of this catalog (also available at www.clancey.com). Your Clancey application specialist will simulate your application in the computer saving you valuable time in product selection and development.**

- **NI-Slide corrosion resistant rod.**
- **Use of safety clips is required.**

## GAS SPRINGS WITH 10 mm STEEL END-FITTINGS






| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 8mm | 19mm | 9.6" | 3.2" | 20 lbs | 1617EB |
| | | | | 25 lbs | 1618EX |
| | | | | 30 lbs | 1619ES |
| | | | | 35 lbs | 1621EZ |
| | | | | 40 lbs | 1622EU |
| | | | | 45 lbs | 3084EA |
| | | | | 50 lbs | 3023EO |
| | | | | 60 lbs | 1623EP |
| | | | | 70 lbs | 3024EJ |
| | | | | 75 lbs | 1624EK |
| | | | | 80 lbs | 1625EF |
| | | | | 85 lbs | 1626EA |
| | | | | 90 lbs | 3025EE |
| | | | | 100 lbs | 1627EW |
| | | | | 110 lbs | 3027EV |
| | | | | 120 lbs | 1628ER |
| | | | | 150 lbs | 1629EM |
| | | | | 170 lbs | 3189EN |
| 8mm | 19mm | 12.2" | 4.3" | 20 lbs | 1631ET |
| | | | | 25 lbs | 2978EM |
| | | | | 30 lbs | 1632EO |
| | | | | 40 lbs | 1633EJ |
| | | | | 45 lbs | 2979EH |
| | | | | 55 lbs | 1634EE |
| | | | | 85 lbs | 1636EV |
| | | | | 90 lbs | 2981EO |
| | | | | 110 lbs | 1637EQ |
| | | | | 140 lbs | 4609EA |
| | | | | 150 lbs | 3079EI |
| | | | | 170 lbs | 4917EK |

| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 8mm | 19mm | 15.3" | 5.8" | 20 lbs | 1638EL |
| | | | | 25 lbs | 2993EZ |
| | | | | 30 lbs | 1639EG |
| | | | | 35 lbs | 2994EU |
| | | | | 40 lbs | 1641EN |
| | | | | 45 lbs | 2995EP |
| | | | | 50 lbs | 1642EI |
| | | | | 60 lbs | 1643ED |
| | | | | 70 lbs | 3625EQ |
| | | | | 90 lbs | 2996EK |
| | | | | 110 lbs | 2997EF |
| | | | | 150 lbs | 1644EZ |
| | | | | 160 lbs | 3198EV |
| 8mm | 22mm | 17.1" | 6.7" | 20 lbs | 2998EA |
| | | | | 30 lbs | 1651EH |
| | | | | 40 lbs | 1652EC |
| | | | | 45 lbs | 2999EW |
| | | | | 50 lbs | 1653EY |
| | | | | 60 lbs | 1654ET |
| | | | | 75 lbs | 1655EO |
| | | | | 80 lbs | 1656EJ |
| | | | | 85 lbs | 3001EJ |
| | | | | 90 lbs | 3002EE |
| | | | | 100 lbs | 3004EV |
| | | | | 110 lbs | 1657EE |
| | | | | 120 lbs | 4734EA |
| | | | | 130 lbs | 1659EV |
| | | | | 150 lbs | 1661EB |

| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 8mm | 12mm | 19.7" | 7.9" | 25 lbs | 1662EX |
| | | | | 40 lbs | 1633ES |
| | | | | 45 lbs | 3009EX |
| | | | | 50 lbs | 3092EE |
| | | | | 70 lbs | 1664EN |
| | | | | 80 lbs | 1665EI |
| | | | | 85 lbs | 3012EZ |
| | | | | 90 lbs | 1666ED |
| | | | | 100 lbs | 4916EP |
| | | | | 110 lbs | 5039EQ |
| | | | | 120 lbs | 1667EZ |
| | | | | 150 lbs | 1668EU |
| 8mm | 19mm | 23" | 8.9" | 30 lbs | 1645EU |
| | | | | 35 lbs | 3017EA |
| | | | | 50 lbs | 1646EP |
| | | | | 60 lbs | 1647EK |
| | | | | 75 lbs | 3018EW |
| | | | | 80 lbs | 1648EF |
| | | | | 120 lbs | 1649EA |
| | | | | 140 lbs | 3267EK |

**10 mm Steel**



**Order 10 mm ball studs or brackets**

**Be sure to order 2 safety clips per gas spring.**



**PART NUMBER**
**012378**

**You're buying the best gas spring in the world.**

**Be sure to get the maximum life from it. Have our applications specialist run a computer simulation of your design for maximum performance.**

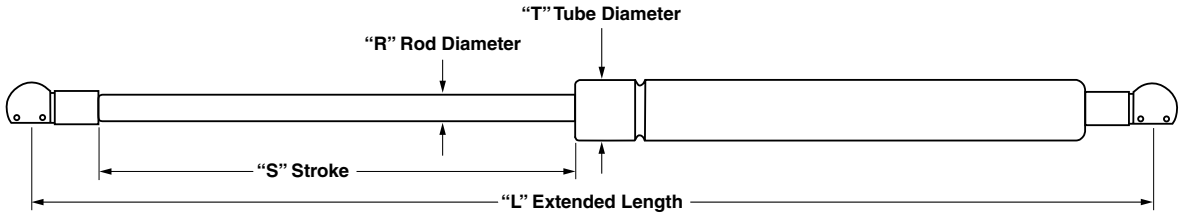
# DOOR ASSISTS
## STEEL END GAS SPRINGS

CAD POWERED

### GAS SPRINGS WITH 13 mm STEEL END-FITTINGS

- NI-Slide corrosion resistant rod.
- Use of safety clips is required.
- For heavy duty applications.






| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 10mm | 22mm | 20.2" | 7.9" | 45 lbs | 3242EO |
| | | | | 70 lbs | 4893EQ |
| | | | | 100 lbs | 1669EP |
| | | | | 110 lbs | 3013EU |
| | | | | 120 lbs | 3082EK |
| | | | | 125 lbs | 4551ER |
| | | | | 130 lbs | 1671EW |
| | | | | 140 lbs | 3014EP |
| | | | | 150 lbs | 1672ER |
| | | | | 180 lbs | 1673EM |
| | | | | 190 lbs | 1674EH |
| | | | | 200 lbs | 3015EK |
| | | | | 220 lbs | 1675EC |
| | | | | 240 lbs | 1676CY |

| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 10mm | 22mm | 26.3" | 10.2" | 30 lbs | 1677ET |
| | | | | 35 lbs | 2982EJ |
| | | | | 40 lbs | 1678EO |
| | | | | 45 lbs | 2983EE |
| | | | | 50 lbs | 1679EJ |
| | | | | 70 lbs | 1681EQ |
| | | | | 80 lbs | 1682EL |
| | | | | 85 lbs | 2985EV |
| | | | | 100 lbs | 1683EG |
| | | | | 110 lbs | 2986EQ |
| | | | | 120 lbs | 1684EB |
| | | | | 130 lbs | 2987EL |
| | | | | 150 lbs | 1685EX |
| | | | | 190 lbs | 2988EG |
| | | | | 220 lbs | 1686ES |
| | | | | 240 lbs | 2989EB |
| | | | | 260 lbs | 1687EN |

| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 10mm | 22mm | 36.3" | 15.2" | 30 lbs | 1688EI |
| | | | | 35 lbs | 3005EQ |
| | | | | 40 lbs | 1689ED |
| | | | | 60 lbs | 1691EK |
| | | | | 75 lbs | 3006EL |
| | | | | 80 lbs | 1692EF |
| | | | | 100 lbs | 1693EA |
| | | | | 110 lbs | 4608EF |
| | | | | 120 lbs | 1694EW |
| | | | | 130 lbs | 1695ER |
| | | | | 150 lbs | 1696EM |
| | | | | 180 lbs | 1697EH |

**13 mm Steel**



**Order 13 mm ball studs or brackets**

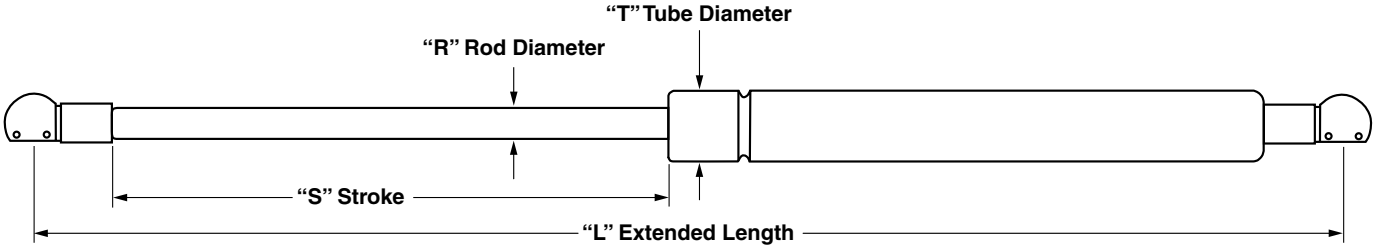
**Be sure to order 2 safety clips per gas spring.**



**PART NUMBER**
**012351**

- **Largest commercial available gas springs.**
- **Wide range of strokes to suit nearly any application.**
- **Ball studs and safety clips are included.**

## HEAVY-DUTY GAS SPRINGS




| "R" | "T" | "L" | "S" | Force | Part Number |
|---|---|---|---|---|---|
| 14mm | 28mm | 13.8" | 3.93" | 1300 | **2029LS** |
| | | | | 1500 | **2357LQ** |
| | | | | 1700 | **2358LL** |
| | | | | 1900 | **2359LG** |
| | | | | 2100 | **2361LN** |
| 14mm | 28mm | 17.3 | 5.91" | 1300 | **2033LP** |
| | | | | 1500 | **2362LI** |
| | | | | 1700 | **2363LS** |
| | | | | 1900 | **2364LZ** |
| | | | | 2100 | **2365LU** |
| 14mm | 28mm | 21.06" | 7.87" | 1300 | **2036LA** |
| | | | | 1500 | **2366LP** |
| | | | | 1700 | **2367LK** |
| | | | | 1900 | **2368LF** |
| | | | | 2100 | **2369LA** |
| 14mm | 28mm | 25.0" | 9.84" | 1300 | **2075LI** |
| | | | | 1500 | **2371LH** |
| | | | | 1700 | **2372LC** |
| | | | | 1900 | **2373LY** |
| | | | | 2100 | **2374LT** |
| 14mm | 28mm | 28.94 | 11.81" | 1300 | **2078LU** |
| | | | | 1500 | **2375LO** |
| | | | | 1700 | **2376LJ** |
| | | | | 1900 | **2377LE** |
| | | | | 2100 | **2379LV** |

| "L" | "S" | Force | Part Number |
|---|---|---|---|
| 32.87" | 13.78" | 1300 | **2082LR** |
| | | 1500 | **2381LB** |
| | | 1700 | **2382LX** |
| | | 1900 | **2383LS** |
| | | 2100 | **2384LN** |
| 36.81" | 15.75" | 1300 | **2085LC** |
| | | 1500 | **2385LI** |
| | | 1700 | **2386LD** |
| | | 1900 | **2387LZ** |
| | | 2100 | **2388LU** |
| 44.69" | 19.64" | 500 | **2088LO** |
| | | 600 | **2389LP** |
| | | 700 | **2391LW** |
| | | 800 | **2392LR** |
| | | 900 | **2393LM** |
| | | 1000 | **2394LH** |
| | | 1100 | **2395LC** |
| | | 1300 | **2396LY** |
| | | 1500 | **2397LT** |
| | | 1700 | **2398LO** |

# DOOR ASSISTS
## BALL STUDS

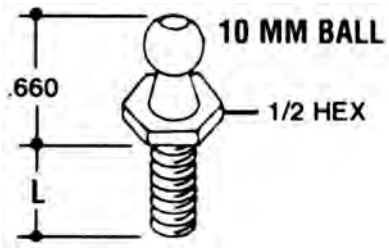
EXPANDED RANGE

### STANDARD BALL STUDS
### 10 MM

- **Used in the majority of applications.**
- **Heat treated for additional strength.**
- **Custom sizes and finishes are available.**

STAINLESS AVAILABLE



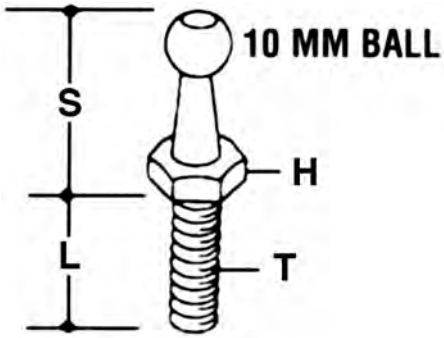



| PART NUMBER | THREAD SIZE | THREAD LENGTH "L" | MATERIAL, FINISH |
|---|---|---|---|
| **BS-100-0375** | 1/4-20 | .375" | STEEL, ZINC PLATE |
| **BS-100-0540** | 5/16-18 | .540" | STEEL, ZINC PLATE |
| **BS-105-0540** | 5/16-18 | .540" | STAINLESS STEEL, PLAIN |
| **BS-100-0750** | 5/16-18 | .750" | STEEL, ZINC PLATE |
| **BS-100-1000** | 5/16-18 | 1.00" | STEEL, ZINC PLATE |

### EXTENDED STANDOFF BALL STUDS
### 10 MM

- **For applications where extra clearance is required.**

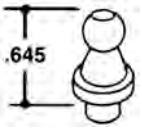
**All models feature 10 MM ball**



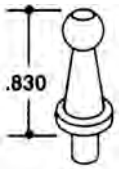

| PART NUMBER | THREAD SIZE "T" | THREAD LENGTH "L" | STAND-OFF HEIGHT "S" | HEX SIZE "H" | MATERIAL, FINISH |
|---|---|---|---|---|---|
| **BS-125-0750** | 5/16-18 | .750" | .880" | 7/16 | STEEL, ZINC PLATE |
| **BS-160-0625** | 5/16-18 | .625" | .765" | 1/2 | STEEL, ZINC PLATE |
| **BS-201-0375** | 1/4 - 28 | .375" | .820" | 7/16 | STEEL, ZINC PLATE |
| **BS-203-0562** | 1/4 - 28 | .562" | .937" | 7/16 | STEEL, ZINC PLATE |

- **For riveting to your bracket or assembly.**

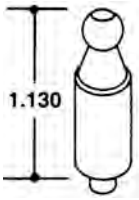
## RIVETABLE BALL STUDS
## 10 MM



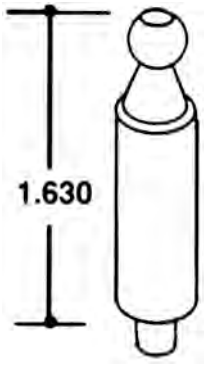

| PART NUMBER |
|---|
| BSR - SB |




| PART NUMBER |
|---|
| BSR - LB |




| PART NUMBER |
|---|
| BSR - SP |




**All models feature 10 MM ball**

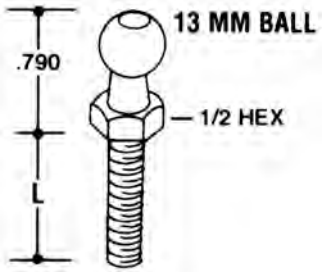
| PART NUMBER |
|---|
| BSR - XLB |

**Material:** Steel **Finish:** Zinc plate

- **Used with larger gas springs.**
- **Heat treated for additional strength.**
- **Custom sizes and finishes are available.**

## STANDARD BALL STUDS
## 13 MM

| PART NUMBER | THREAD SIZE | THREAD LENGTH "L" | MATERIAL, FINISH |
|---|---|---|---|
| **BS-130-0540** | 5/16-18 | .540" | STEEL, ZINC PLATE |
| **BS-135-0540** | 5/16-18 | .540" | STAINLESS STEEL, PLAIN |
| **BS-130-0750** | 5/16-18 | .750" | STEEL, ZINC PLATE |
| **BS-130-1000** | 5/16-18 | 1.00" | STEEL, ZINC PLATE |





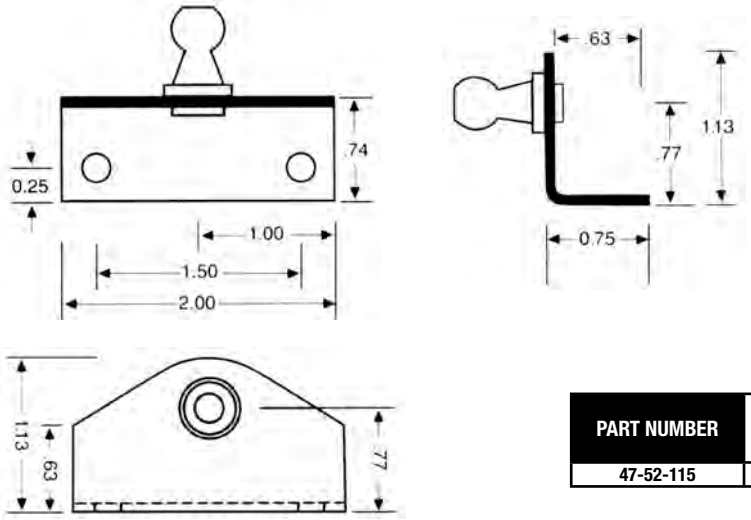

# DOOR ASSISTS
## BALL STUD BRACKETS

### 90 DEGREE BRACKETS

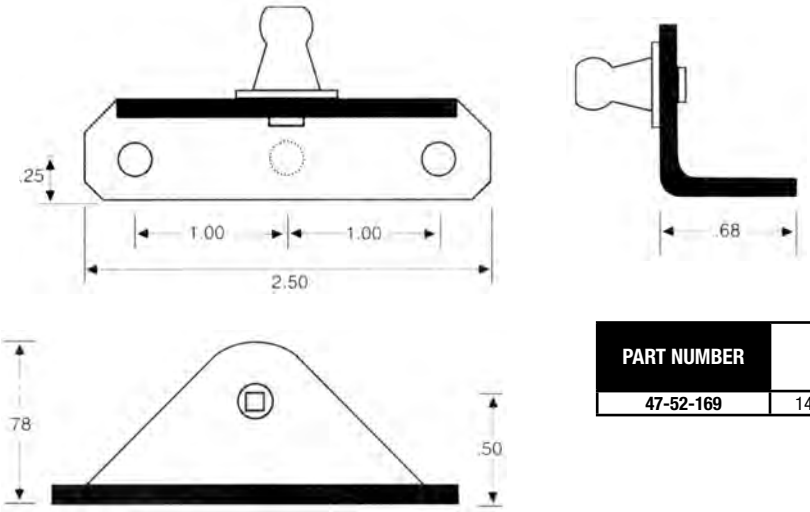
- Used for mounting gas springs.
- Can be assembled forward or reversed.
- Steel, stainless or aluminum available.
- Available w/o holes or finish for welding to your assembly.

STAINLESS AVAILABLE

ALUMINUM AVAILABLE




| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-52-115 | 14 GAUGE (.074") | .203" |

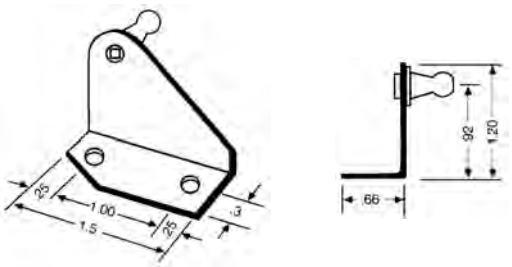



| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-52-169 | 14 GAUGE (.074") | .203" |

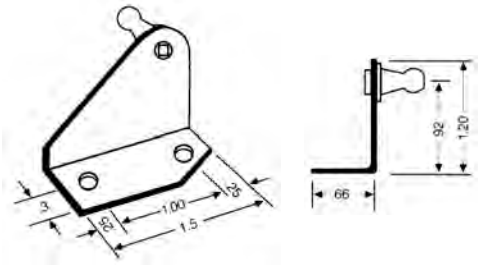
## 90 DEGREE BRACKETS

STAINLESS AVAILABLE

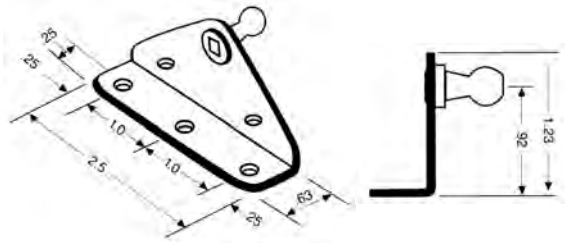
ALUMINUM AVAILABLE



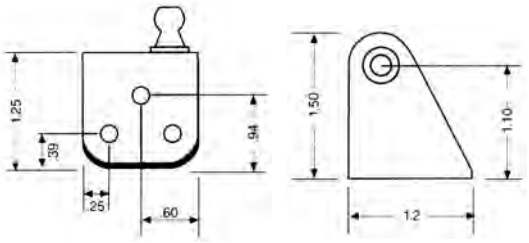

| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-52-155 | 14 GAUGE (.074") | .203" |



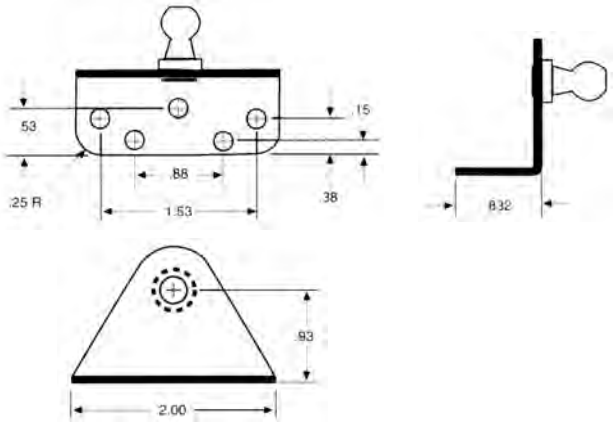

| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-52-255 | 14 GAUGE (.074") | .203" |



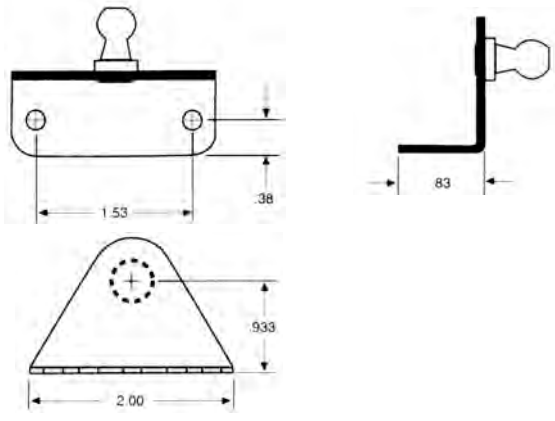

| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-52-149 | 13 GAUGE (.090") | .203" |




| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-72-195 | 13 GAUGE (.090") | .203" |




| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-52-401 | 13 GAUGE (.090") | .188" |




| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-52-405 | 13 GAUGE (.090") | .188" |

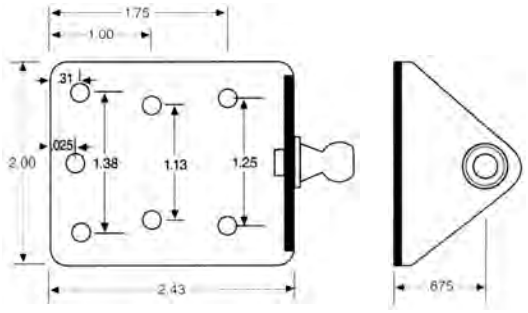
# DOOR ASSISTS
## BALL STUD BRACKETS

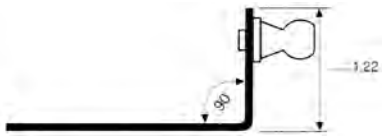
EXPANDED RANGE

### 90 DEGREE BRACKETS

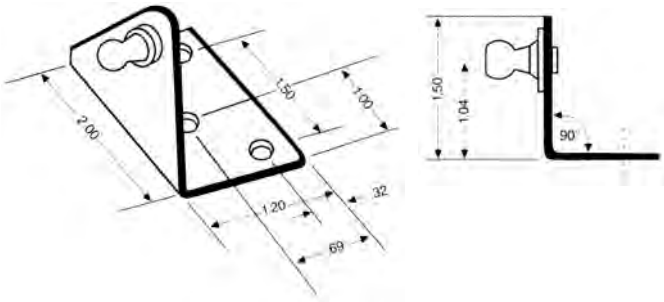
STAINLESS AVAILABLE

ALUMINUM AVAILABLE

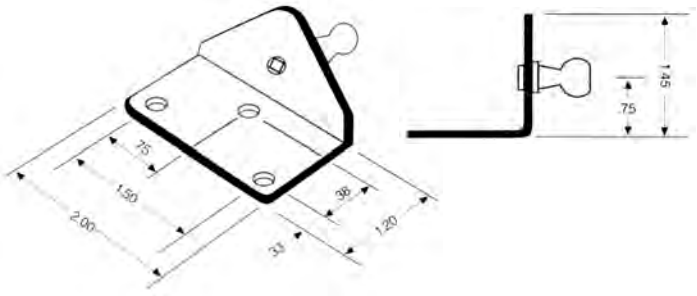


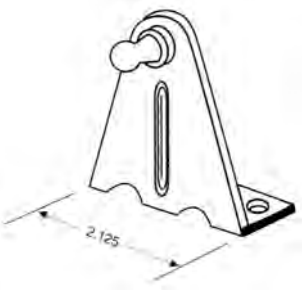

| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| **47-52-132** | 13 GAUGE (.090") | .203" |

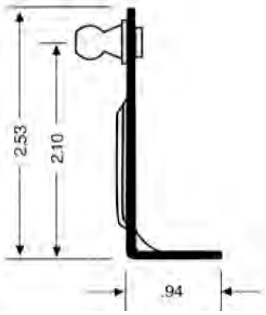


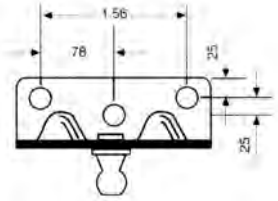

| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| **47-72-180** | 12 GAUGE (.105") | .203" |




| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| **47-52-185** | 12 GAUGE (.105") | .203" |



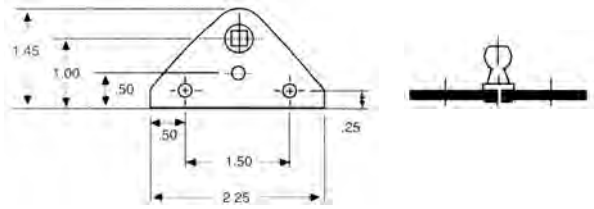

| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| **47-72-145** | 12 GAUGE (.105") | .203" |

### COMPUTER VALIDATED DESIGN ASSISTANCE

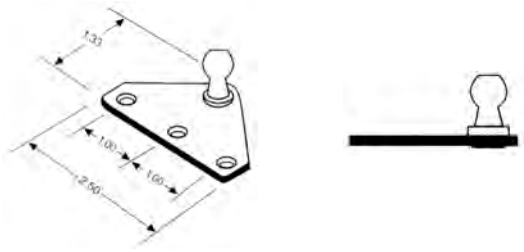
**CLANCEY CAN HELP YOU SAVE TIME IN PRODUCT DEVELOPMENT AND ASSURE YOUR CUSTOMER GETS A FULL LIFE FROM THE GAS SPRING ON YOUR EQUIPMENT. GAS SPRINGS ARE OUR STRENGTH. CALL YOUR APPLICATION SPECIALIST TODAY.**

**NOTE: Ball studs cannot be reversed on flat brackets.**

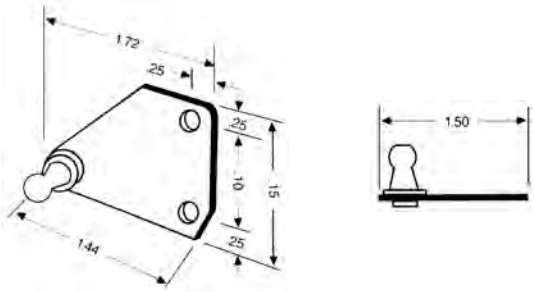
## FLAT BRACKETS



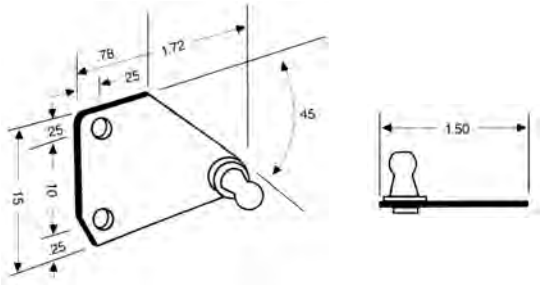

| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-72-120 | 14 GAUGE (.074") | .203" |



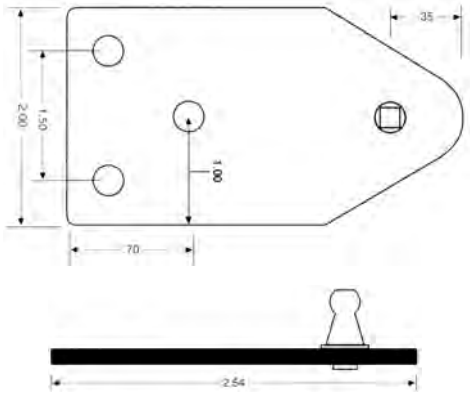

| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-72-169 | 14 GAUGE (.074") | .203" |



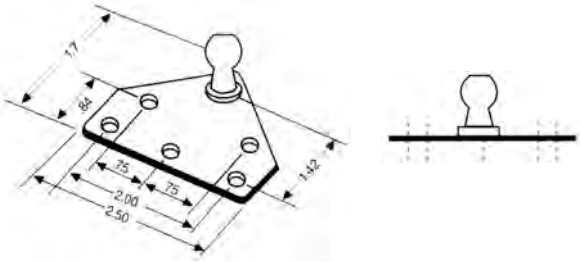

| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-52-190 | 14 GAUGE (.074") | .203" |




| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-52-290 | 14 GAUGE (.074") | .203" |




| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-52-180 | 12 GAUGE (.105") | .203" |




| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-52-173 | 12 GAUGE (.105") | .203" |

# DOOR ASSISTS
## BALL STUD BRACKETS

NEW ITEMS

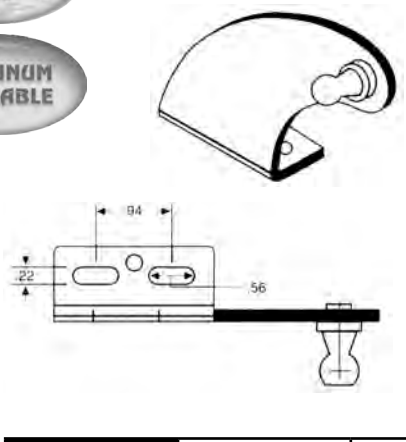
## MECHANICAL ADVANTAGE BRACKETS

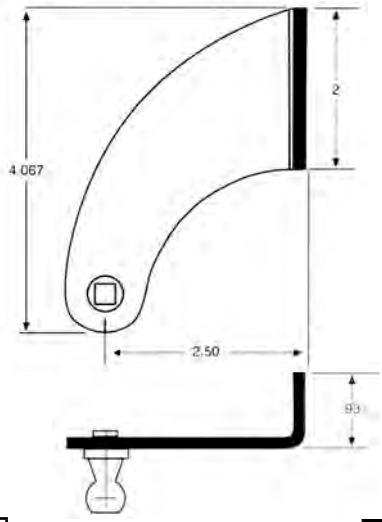
- **Help improve mechanical advantage by re-positioning the ball stud in vertical door applications.**

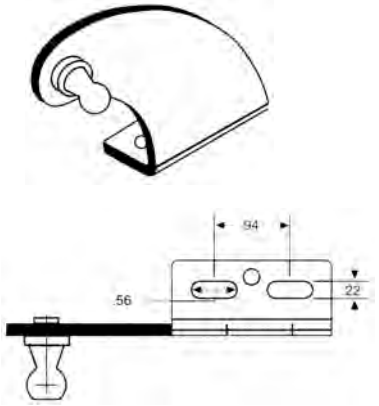
STAINLESS AVAILABLE

ALUMINUM AVAILABLE

### Adjustable (Slotted)



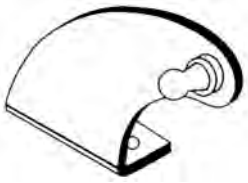



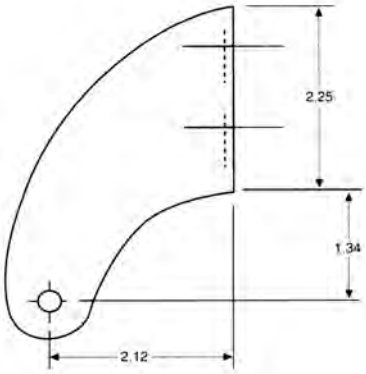



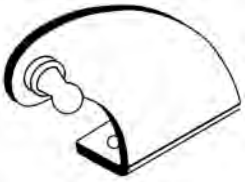

| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-52-156 | 10 GAUGE (.125") | .203" |

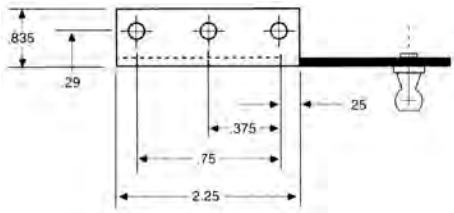
| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-52-157 | 10 GAUGE (.125") | .203" |

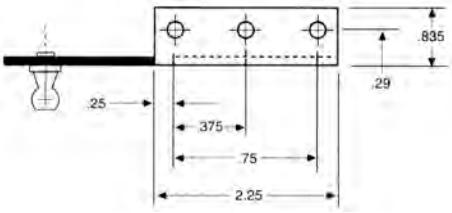
### Stationary (Holes)







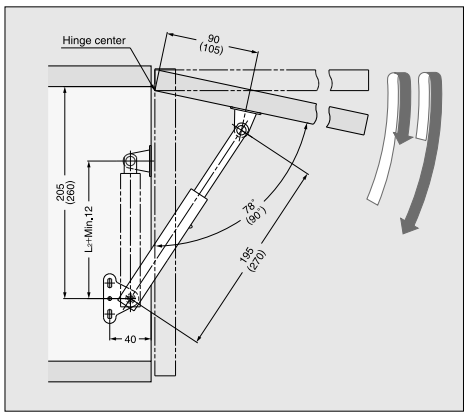

| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-52-1120 | 10 GAUGE (.125") | .203" |

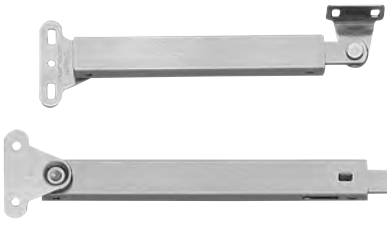
| PART NUMBER | MATERIAL THICKNESS "T" | MOUNTING HOLE SIZE "H" |
|---|---|---|
| 47-52-1125 | 10 GAUGE (.125") | .203" |

**Note:** **All products are illustrated with the ball stud in the forward position.**

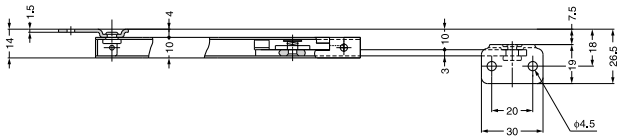
## POSITIVE STOP LID STAY

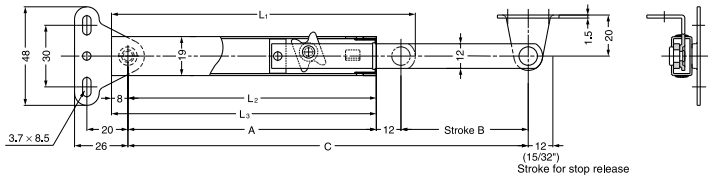
- **Non-handed.**
- **Positive stop keeps lid open.**
- **Upward "Push" releases stay to close lid.**
- **NSF recognized component.**



STAINLESS




**MATERIAL:** 304 stainless steel

**FINISH:** Satin

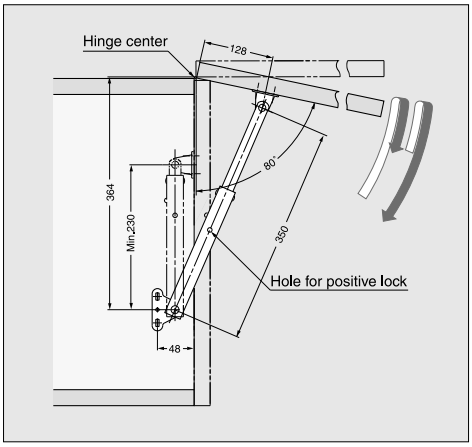
**NOTE:** Mounting screws not included

**LOAD:** 33 lbs each

| PART NUMBER | L1 | L2 | L3 | A | B | C | Door Height Range |
|---|---|---|---|---|---|---|---|
| **L-195** | 148mm (5.83") | 121mm (4.76") | 129mm (5.08") | 133mm (5.24") | 62mm (2.44") | 195mm (7.68") | 250-350mm (9.8-13.8") |
| **L-270** | 185mm (7.28") | 158mm (6.22") | 166mm (6.54") | 170mm (6.69") | 100mm (3.98") | 270mm (10.63") | 320-500mm (12.6-19.7") |

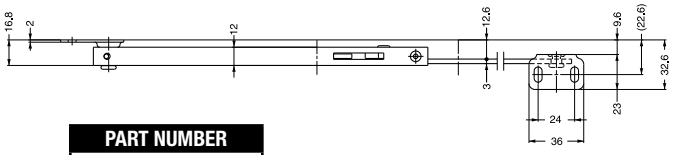
## HEAVY DUTY VERSION

- **Non-handed.**
- **66 lb each load capacity.**
- **Hole available for locking pin (not included).**

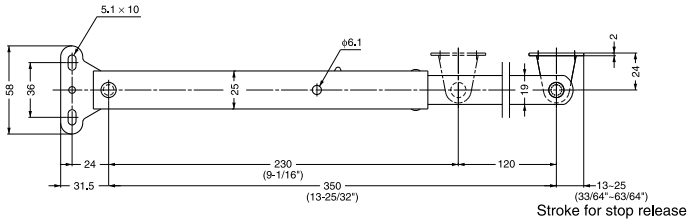



STAINLESS






| PART NUMBER |
|---|
| LB-350 |



# DRAWER SLIDES
## ALUMINUM - LIGHTWEIGHT

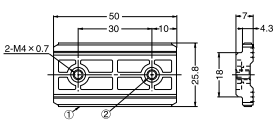
### GUIDE BLOCK AND RAIL

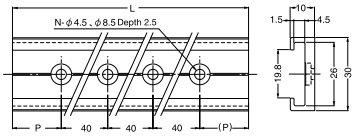
- Drawer slide alternative.
- Smooth movement (0.1 dynamic friction).
- 5 standard rail sizes.

NON-CORROSIVE

ALUMINUM ALLOY






**Material:** Block – Polyethlene w/ 304 stainless inserts
Rail – Aluminum
**Finish:** Block – Black, Rail – White Alumite

| PART NUMBER |
|---|
| MRS-50C |

| PART NUMBER | Rail Length "L" | P | N |
|---|---|---|---|
| MRS30-100 | 100mm (3.93") | 10mm (.39") | 3mm (.12") |
| MRS30-200 | 200mm (7.87") | 20mm (.79") | 5mm (.20") |
| MRS30-400 | 400mm (15.75") | 20mm (.79") | 10mm (.39") |
| MRS30-800 | 800mm (31.50") | 20mm (.79") | 20mm (.79") |
| MRS30-2000 | 2000mm (78.74") | 20mm (.79") | 50mm (1.97") |

### ALUMINUM, 3/4 EXTENSION SLIDE 55 lbs/pair @ 16" LENGTH

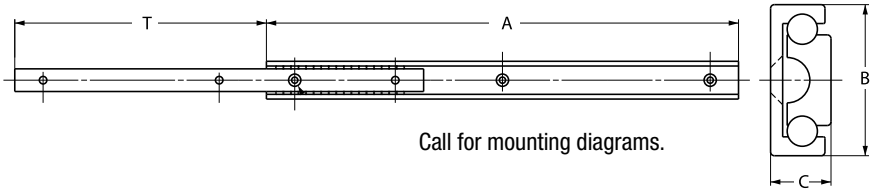
- Non-handed.
- Positive stop.
- Two-member.

ALUMINUM ALLOY



**Material:** Slides – Aluminum alloy
Ball bearings – Steel
**Finish:** Slides - White Alumite

| PART NUMBER | NOMINAL SIZE | PRIMARY DIMENSIONS | | | |
|---|---|---|---|---|---|
| | | OUTER CHANNEL LENGTH "A" | OUTER CHANNEL WIDTH "B" | ASSEMBLY THICKNESS "C" | TRAVEL "T" |
| AR2-100 | 4 INCH | 100 (3.94") | 20 (.79") | 8 (.31") | 60 (2.36") |
| AR2-200 | 8 INCH | 200 (7.87") | | | 120 (4.72") |
| AR2-300 | 12 INCH | 300 (11.81") | | | 180 (7.09") |
| AR2-400 | 16 INCH | 400 (15.75") | | | 240 (9.45") |
| AR2-500 | 20 INCH | 500 (19.69") | | | 300 (11.81") |




Call for mounting diagrams.

**For detailed material specifications plus product installation instructions.**
**www.clancey.com**

### ALUMINUM, FULL EXTENSION SLIDE 30 lbs/pair @ 16" LENGTH

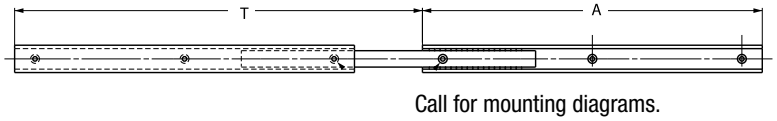
- Non-handed.
- Positive stop.
- Three-member.

ALUMINUM ALLOY



**Material:** Slides – Aluminum alloy
Ball bearings – Steel
**Finish:** Slides - White Alumite

| PART NUMBER | NOMINAL SIZE | PRIMARY DIMENSIONS | | | |
|---|---|---|---|---|---|
| | | OUTER CHANNEL LENGTH "A" | OUTER CHANNEL WIDTH "B" | ASSEMBLY THICKNESS "C" | TRAVEL "T" |
| AR3-100 | 4 INCH | 100 (3.94") | 20 (.79") | 16 (.53") | 100 (3.94") |
| AR3-200 | 8 INCH | 200 (7.87") | | | 200 (7.87") |
| AR3-300 | 12 INCH | 300 (11.81") | | | 300 (11.81") |
| AR3-400 | 16 INCH | 400 (15.75") | | | 400 (15.75") |
| AR3-500 | 20 INCH | 500 (19.69") | | | 500 (19.69") |




Call for mounting diagrams.

**Note:** Load rating will decrease with slide length
Ratings are for reference only.

- **Front disconnect – easy assembly.**
- **Hold-in detent.**
- **Positive stop.**
- **Non-handed.**

**STAINLESS, FULL EXTENSION SLIDE**
**75 lbs/pair @ 18" LENGTH**

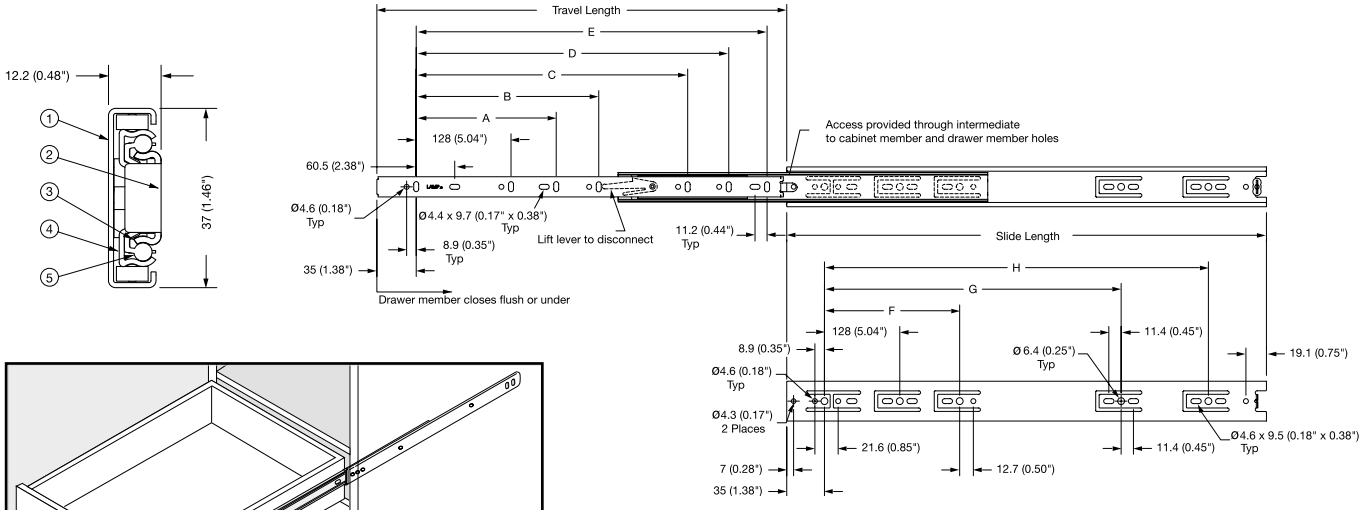
STAINLESS



| PART NUMBER | Slide Length | Travel Length | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|---|
| ESR-3813-8 | 200mm (7.87") | 200mm (7.87") | - | - | - | - | 142mm (5.59") | - | - | - |
| ESR-3813-10 | 250mm (9.84") | 243mm (9.57") | - | - | - | - | 192mm (7.56") | - | - | - |
| ESR-3813-12 | 300mm (11.81") | 304mm (12.00") | - | - | - | - | 242mm (9.53") | 224mm (8.82") | - | - |
| ESR-3813-14 | 350mm (13.78") | 355mm (14.00") | - | - | - | - | 292mm (11.50") | 224mm (8.82") | - | - |
| ESR-3813-16 | 400mm (15.75") | 406mm (16.00") | - | - | - | - | 342mm (13.46") | 224mm (8.82") | 320mm (12.60") | - |
| ESR-3813-18 | 450mm (17.72") | 457mm (18.00") | - | - | 320mm (12.60") | - | 392mm (15.43") | 224mm (8.82") | 352mm (13.86") | - |
| ESR-3813-20 | 500mm (19.69") | 508mm (20.00") | - | - | 320mm (12.60") | - | 442mm (17.40") | 224mm (8.82") | 416mm (16.38") | - |
| ESR-3813-22 | 550mm (21.65") | 559mm (22.00") | - | - | 320mm (12.60") | 416mm (16.38") | 492mm (19.37") | 224mm (8.82") | 352mm (13.86") | 448mm (17.64") |
| ESR-3813-24 | 600mm (23.62") | 610mm (24.00") | 224mm (8.89") | - | 416mm (16.38") | - | 542mm (21.34") | 224mm (8.82") | 352mm (13.86") | 480mm (18.90") |

| Ref. # | Part | Material |
|---|---|---|
| 1 | Outer Rail | 304 Stainless Steel |
| 2 | Inner Rail | |
| 3 | Retainer | |
| 4 | Middle Rail | |
| 5 | Balls | |

**Mounts with:**
**M4 or #8 pan, round or binding head screws (not included)**







**Note:** **Load rating will decrease with slide length.**
**Ratings are for reference only.**

# DRAWER SLIDES
## STAINLESS STEEL - STANDARD WEIGHT

### STAINLESS, FULL EXTENSION SLIDE
### 100 lbs/pair @ 18" LENGTH

- **Front disconnect – easy assembly.**
- **Hold-in detent.**
- **Positive stop.**
- **Non-handed.**



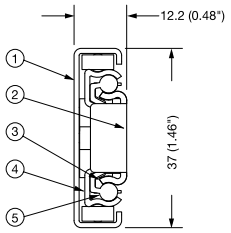
**ACCURIDE® 3832 EQUIVALENT**
**MOUNTS IN SAME HOLE PATTERN**

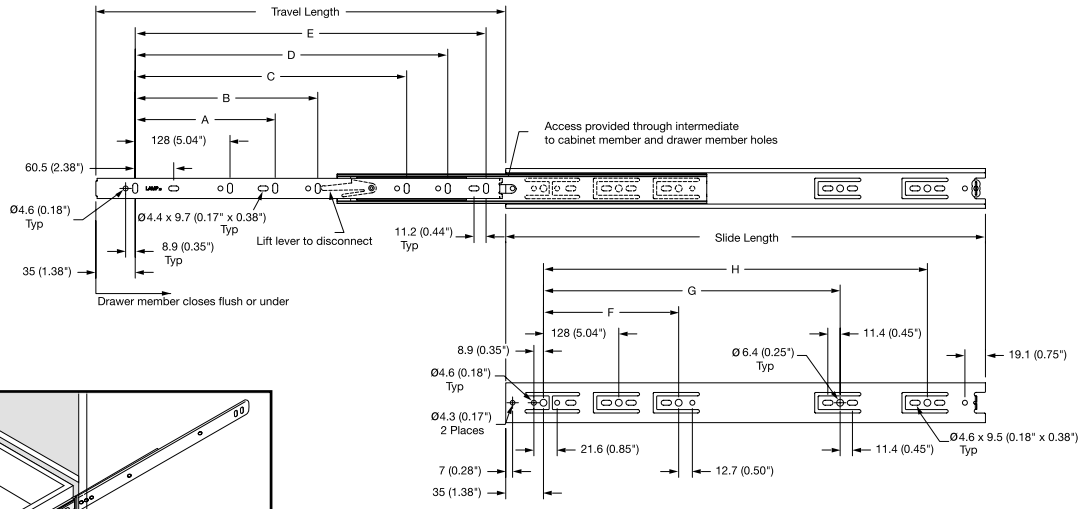
ACCURIDE® IS A REGISTERED TRADEMARK OF ACCURIDE® INTERNATIONAL, INC.

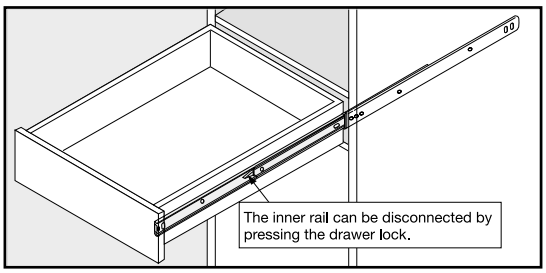
| PART NUMBER | Slide Length | Travel Length | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|---|
| ESR-4513-10 | 250mm (9.84") | 243mm (9.57") | - | - | - | - | 192mm (7.56") | - | - | - |
| ESR-4513-12 | 300mm (11.81") | 304mm (12.00") | - | - | - | - | 242mm (9.53") | 224mm (8.82") | - | - |
| ESR-4513-14 | 350mm (13.78") | 355mm (14.00") | - | - | - | - | 292mm (11.50") | 224mm (8.82") | - | - |
| ESR-4513-16 | 400mm (15.75") | 406mm (16.00") | - | - | - | - | 342mm (13.46") | 224mm (8.82") | 320mm (12.60") | - |
| ESR-4513-18 | 450mm (17.72") | 457mm (18.00") | - | - | 320mm (12.60") | - | 392mm (15.43") | 224mm (8.82") | 352mm (13.86") | - |
| ESR-4513-20 | 500mm (19.69") | 508mm (20.00") | - | - | 320mm (12.60") | - | 442mm (17.40") | 224mm (8.82") | 416mm (16.38") | - |
| ESR-4513-22 | 550mm (21.65") | 559mm (22.00") | - | - | 320mm (12.60") | 416mm (16.38") | 492mm (19.37") | 224mm (8.82") | 352mm (13.86") | 448mm (17.64") |
| ESR-4513-24 | 600mm (23.62") | 610mm (24.00") | 224mm (8.89") | - | 416mm (16.38") | - | 542mm (21.34") | 224mm (8.82") | 352mm (13.86") | 480mm (18.90") |
| ESR-4513-26 | 650mm (25.59") | 660mm (26.00") | 224mm (8.89") | - | 416mm (16.38") | 544mm (21.48") | 592mm (23.31") | 224mm (8.82") | 352mm (13.86") | 544mm (21.48") |
| ESR-4513-28 | 700mm (27.56") | 711mm (28.00") | 224mm (8.89") | 288mm (11.34") | 416mm (16.38") | 544mm (21.48") | 642mm (25.28") | 224mm (8.82") | 352mm (13.86") | 544mm (21.48") |

**Mounts with:**
**M4 or #8 pan, round or binding head screws (not included)**

| Ref. # | Part | Material |
|---|---|---|
| 1 | Outer Rail | 304 Stainless Steel |
| 2 | Inner Rail | |
| 3 | Retainer | |
| 4 | Middle Rail | |
| 5 | Balls | |




**Note:** **Load rating will decrease with slide length.**
**Ratings are for reference only.**

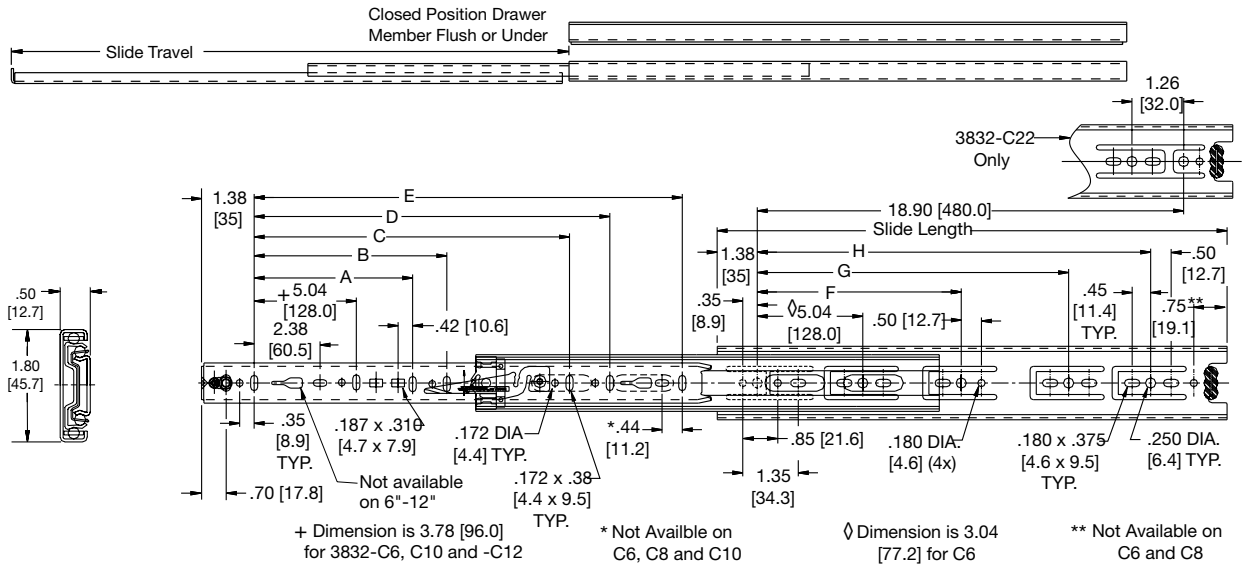
- **Front disconnect - easy assembly.**
- **Hold-in detent.**
- **Breather tabs self-adjust to side clearance.**
- **Non-handed.**
- **Industry's most popular model.**
- **Options include self closing, touch release, and easy close. Call for details.**
- **Pocket and bayonet mounting available**

**STEEL, FULL EXTENSION SLIDE**
**100 lbs/pair @ 18" LENGTH**



| PART NUMBER | Slide Length | Slide Travel | | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3832 | 3834 | | | | | | | | |
| **C3832-C6P** | 5.84 (148) | 5.50 (140) | | | | | | | | | |
| **C3832-C8P** | 7.84 (199) | 8.00 (203) | | | | | | 5.56 (141) | | | |
| **C3832-C10P** | 9.84 (250) | 9.57 (243) | | | | | | 7.56 (192) | | | |
| **C3832-C12P** | 11.81 (300) | 12.00 (305) | 13.00 (330) | | | | | 9.52 (242) | 8.82 (224) | | |
| **C3832-C14P** | 13.78 (350) | 14.00 (356) | 15.00 (381) | | | | | 11.50 (292) | 8.82 (224) | | |
| **C3832-C16P** | 15.75 (400) | 16.00 (406) | 17.00 (432) | | | | | 13.47 (342) | 8.82 (224) | 12.60 (320) | |
| **C3832-C18P** | 17.72 (450) | 18.00 (457) | 19.00 (483) | | | 12.60 (320) | | 15.43 (392) | 8.82 (224) | 13.86 (352) | |
| **C3832-C20P** | 19.69 (500) | 20.00 (508) | 21.00 (533) | | | 12.60 (320) | | 17.40 (442) | 8.82 (224) | 16.38 (416) | |
| **C3832-C22P** | 21.65 (550) | 22.00 (559) | 23.00 (584) | | | ▲12.60 (320) | 16.38 (416) | 19.37 (492) | 8.82 (224) | 13.86 (352) | 17.64 (448) |
| **C3832-C24P** | 23.62 (600) | 24.00 (610) | 25.00 (635) | 8.82 (224) | | 16.38 (416) | | 21.34 (542) | 8.82 (224) | 13.86 (352) | 18.90 (480) |
| **C3832-C26P** | 25.59 (650) | 26.00 (660) | 27.00 (686) | 8.82 (224) | | 16.38 (416) | 21.42 (544) | 23.31 (592) | 8.82 (224) | 13.86 (352) | 21.42 (544) |
| **C3832-C28P** | 27.56 (700) | 28.00 (711) | 29.00 (737) | 8.82 (224) | 11.34 (288) | 16.38 (416) | 21.42 (544) | 25.28 (642) | 8.82 (224) | 13.86 (352) | 21.42 (544) |

‡ A lateral file drawer is wider than it is deep
▲ Not available on 3834-22
• Load rating based on 18" slides mounted in a 16" wide drawer cycled 50,000 times.
■ Clear and white finishes are RoHS compliant.




**Material:** Cold rolled steel
**Finish:** Zinc plate

**Note:** Load rating will decrease with slide length.
Ratings are for reference only.

Accuride®

### STEEL, FULL EXTENSION SLIDE
### 150 lbs/pair @ 18" LENGTH



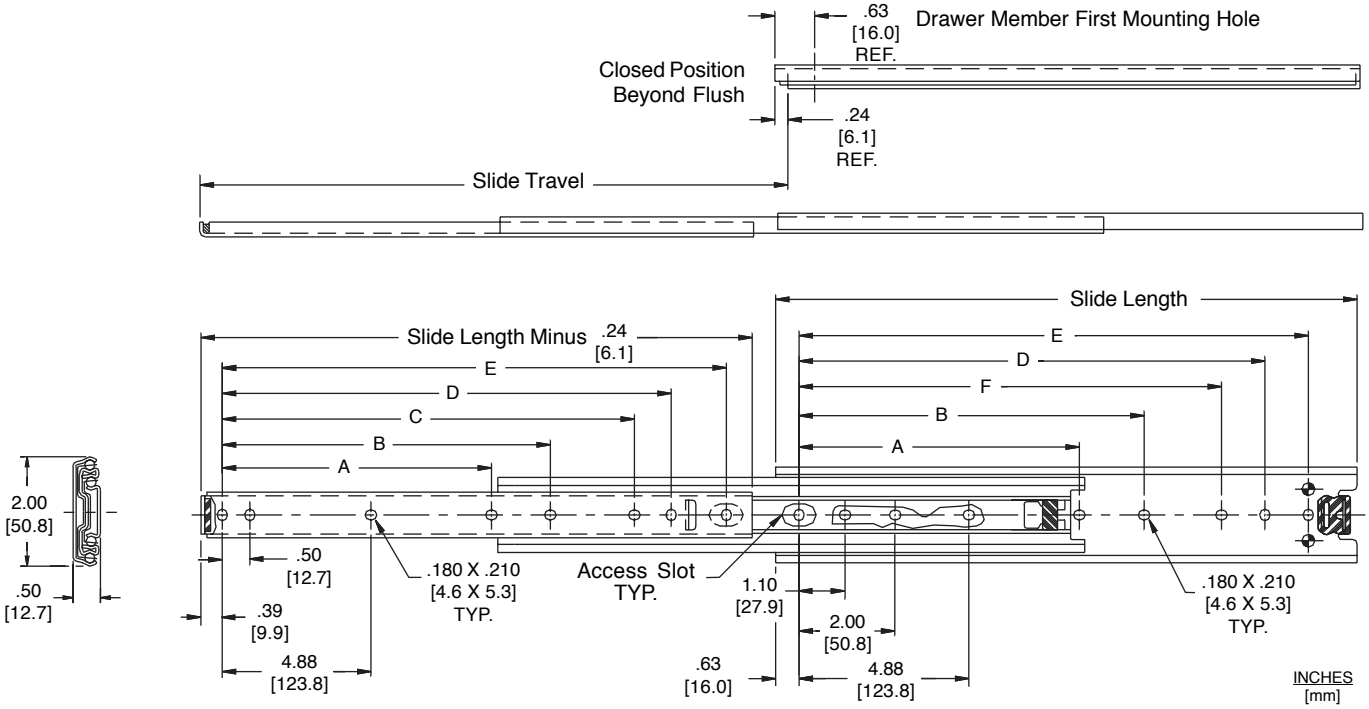
- **1" over travel.**
- **.50 side space.**
- **Non-disconnect.**
- **Lockout version available.**
- **Lock-in and lockout version available.**

**Material:** Cold rolled steel
**Finish:** Zinc plate

| PART NUMBER | Slide Length | Slide Travel | Load Rating lbs (kg) per Pair | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|
| **C3301-12P** | 12.00 (305) | 13.00 (330) | 150 (68.2) | | 6.38 (162.1) | 8.75 (222.3) | 9.25 (235.0) | 10.25 (260.3) | 8.25 (209.6) |
| **C3301-14P** | 14.00 (356) | 15.00 (381) | 148 (67.3) | | 8.38 (212.8) | 10.75 (273.1) | 11.25 (285.8) | 12.25 (311.2) | 10.25 (260.3) |
| **C3301-16P** | 16.00 (406) | 17.00 (432) | 147 (66.8) | | 10.35 (263.6) | 12.75 (323.9) | 13.25 (336.8) | 14.26 (361.9) | 12.25 (311.2) |
| **C3301-18P** | 18.00 (457) | 19.00 (483) | 146 (66.4) | 8.38 (212.8) | 12.38 (314.4) | 14.75 (374.7) | 15.25 (387.4) | 16.25 (412.7) | 14.26 (361.9) |
| **C3301-20P** | 20.00 (508) | 21.00 (533) | 145 (65.9) | 9.38 (238.2) | 14.38 (365.2) | 16.75 (425.5) | 17.25 (438.2) | 18.25 (463.5) | 16.25 (412.7) |
| **C3301-22P** | 22.00 (559) | 23.00 (584) | 140 (63.6) | 10.38 (263.6) | 16.38 (416.0) | 18.75 (476.3) | 19.25 (489.0) | 20.25 (514.3) | 18.25 (463.5) |
| **C3301-24P** | 24.00 (610) | 25.00 (635) | 135 (61.4) | 11.38 (289.1) | 18.38 (466.8) | 20.75 (527.1) | 21.25 (539.8) | 22.25 (565.1) | 20.25 (514.3) |
| **C3301-26P** | 26.00 (660) | 27.00 (686) | 127 (57.7) | 12.38 (314.4) | 20.38 (517.6) | 22.75 (577.9) | 23.25 (590.6) | 24.25 (615.9) | 22.25 (565.1) |
| **C3301-28P** | 28.00 (711) | 29.00 (737) | 120 (54.5) | 13.38 (339.8) | 22.38 (568.4) | 24.75 (628.7) | 25.25 (641.4) | 26.25 (666.7) | 24.25 (615.9) |

*Load rating based on a 16" wide drawer cycled 10,000 times.

**Note:** **Load rating will decrease with slide length. Ratings are for reference only.**

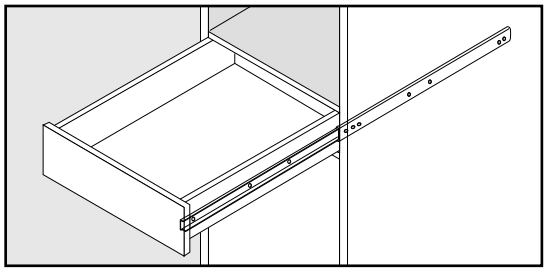


- **Retainer disconnect – easy assembly.**
- **Friction brake stop.**
- **Non-handed.**

**STAINLESS 3/4 EXTENSION SLIDE**
**90 lbs/pair @ 18" LENGTH**

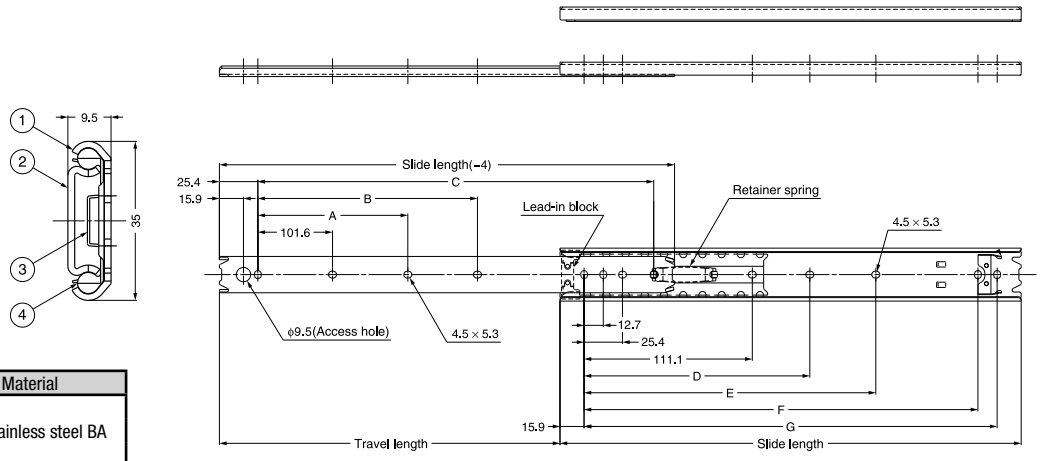


STAINLESS



**APPLICATION ENVIRONMENTS:**
- **Machine cabinets**
- **Truck tool boxes**
- **Medical carts**
- **Food warming drawers**

| PART NUMBER | Slide Length | Travel Length | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|---|---|
| ESR-1-12 | 304.8mm (12.00") | 228.6mm (9.00") | - | 152.4mm (6.00") | 254.0mm (10.00") | - | 149.2mm (5.87") | 260.3mm (10.25") | 273.0mm (10.75") |
| ESR-1-14 | 355.6mm (14.00") | 279.4mm (11.00") | - | 203.2mm (8.00") | 304.8mm (12.00") | - | 200.00mm (7.87") | 311.1mm (12.25") | 323.8mm (12.75") |
| ESR-1-16 | 406.4mm (16.00") | 304.8mm (12.00") | - | 254.0mm (10.00") | 355.6mm (14.00") | - | 250.8mm (9.87") | 361.9mm (14.25") | 374.6mm (14.75") |
| ESR-1-18 | 457.2mm (18.00") | 330.2mm (13.00") | 203.2mm (8.00") | 304.8mm (12.00") | 406.4mm (16.00") | 212.7mm (8.37") | 301.6mm ((11.87") | 412.7mm (16.25") | 425.4mm (16.75") |
| ESR-1-20 | 508.0mm (20.00") | 381.0mm (15.00") | 228.6mm (9.00") | 355.6mm (14.00") | 457.2mm (18.00") | 238.1mm (9.37") | 352.4mm (13.87") | 463.5mm (18.25") | 476.2mm (18.75") |
| ESR-1-22 | 558.8mm (22.00") | 406.4mm (16.00") | 254.0mm (10.00") | 406.4mm (16.00") | 508.0mm (20.00") | 263.5mm (10.37") | 403.2mm (15.87") | 514.3mm (20.25") | 527.0mm (20.75") |
| ESR-1-24 | 609.6mm (24.00") | 431.8mm (17.00") | 279.4mm (11.00") | 457.2mm (18.00") | 558.8mm (22.00") | 288.9mm (11.37") | 454.0mm (17.87") | 565.1mm (22.25") | 577.8mm (22.75") |
| ESR-1-26 | 660.4mm (26.00") | 482.6mm (19.00") | 304.8mm (12.00") | 508.0mm (20.00") | 609.6mm (24.00") | 314.3mm (12.37") | 504.8mm (19.87") | 615.9mm (24.25") | 628.6mm (24.75") |
| ESR-1-28 | 711.2mm (28.00") | 508.0mm (20.00") | 330.2mm (13.00") | 558.8mm (22.00") | 660.4mm (26.00") | 339.7mm (13.37") | 555.6mm (21.87") | 666.7mm (26.25") | 679.4mm (26.75") |




| Ref. # | Part | Material |
|---|---|---|
| 1 | Outer rail | 304 stainless steel BA |
| 2 | Inner rail | |
| 3 | Retainer | |
| 4 | Balls | 304 Stainless steel |

**Note:** **Load rating will decrease with slide length. Ratings are for reference only.**

**MOUNTS WITH:**
**M4 or # 8 bind or truss head screws (not included)**

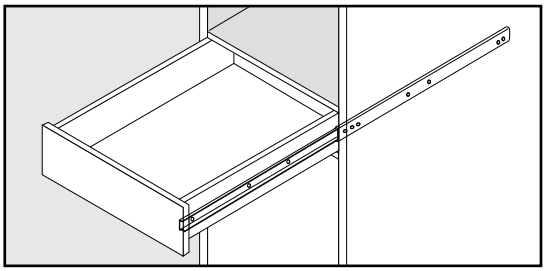
# DRAWER SLIDES
## STAINLESS STEEL - STANDARD WEIGHT

**STAINLESS, FULL EXTENSION SLIDE**
**150 lbs/pair @ 18" LENGTH**

- **Slight overtravel (9/16").**
- **Positive stop.**
- **Non-handed.**
- **Does not disconnect.**

STAINLESS AVAILABLE

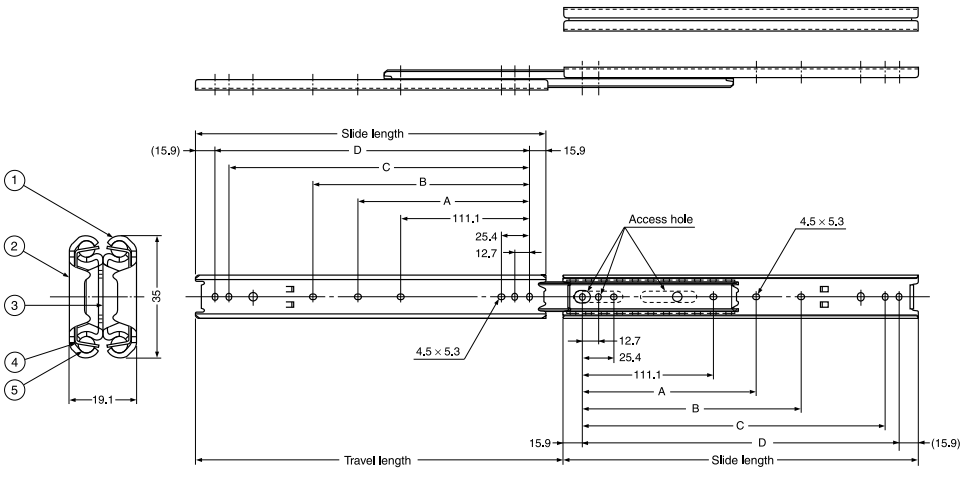




**APPLICATION ENVIRONMENTS:**
- **Electronic racks**
- **Tool boxes**
- **Battery trays**
- **Equipment shelfs**

**MOUNTS WITH:**
**M4 or # 8 bind or truss head screws (not included)**

| PART NUMBER | Slide Length | Travel Length | A | B | C | D |
|---|---|---|---|---|---|---|
| ESR-6-12 | 304.8mm (12.00") | 319.00mm (12.56") | - | 149.2mm (5.87") | 260.3mm (10.25") | 273.0mm (10.75") |
| ESR-6-14 | 355.6mm (14.00") | 369.8mm (14.56") | - | 200.0mm (7.87") | 311.1mm (12.25") | 323.8mm (12.75") |
| ESR-6-16 | 406.4mm (16.00") | 420.6mm (16.56") | - | 250.8mm (9.87") | 361.9mm (14.25") | 374.6mm (14.75") |
| ESR-6-18 | 457.2mm (18.00") | 471.4mm (18.56") | 212.7mm (8.37") | 301.6mm (11.87") | 412.7mm (16.25") | 425.4mm (16.75") |
| ESR-6-20 | 508.0mm (20.00") | 522.2mm (20.56") | 238.1mm (9.37") | 352.4mm (13.87") | 463.5mm (18.25") | 476.2mm (18.75") |
| ESR-6-22 | 558.8mm (22.00") | 573.0mm (22.56") | 263.5mm (10.37") | 403.2mm (15.87") | 514.3mm (20.25") | 527.0mm (20.75") |
| ESR-6-24 | 609.6mm (24.00") | 623.8mm (24.56") | 288.9mm (11.37") | 454.0mm (17.87") | 565.1mm (22.25") | 577.8mm (22.75") |
| ESR-6-26 | 660.4mm (26.00") | 674.6mm (26.56") | 314.3mm (12.37") | 504.8mm (19.87") | 615.9mm (24.25") | 628.6mm (24.75") |
| ESR-6-28 | 711.2mm (28.00") | 725.4mm (28.56") | 339.7mm (13.37") | 555.6mm (21.87") | 666.7mm (26.25") | 679.4mm (26.75") |




| Ref. # | Part | Material |
|---|---|---|
| 1 | outer rail | 304 stainless steel BA |
| 2 | inner rail | |
| 3 | middle rail | |
| 4 | retainer | |
| 5 | balls | 304 Stainless steel |

**Note:** **Load rating will decrease with slide length.**
**Ratings are for reference only.**

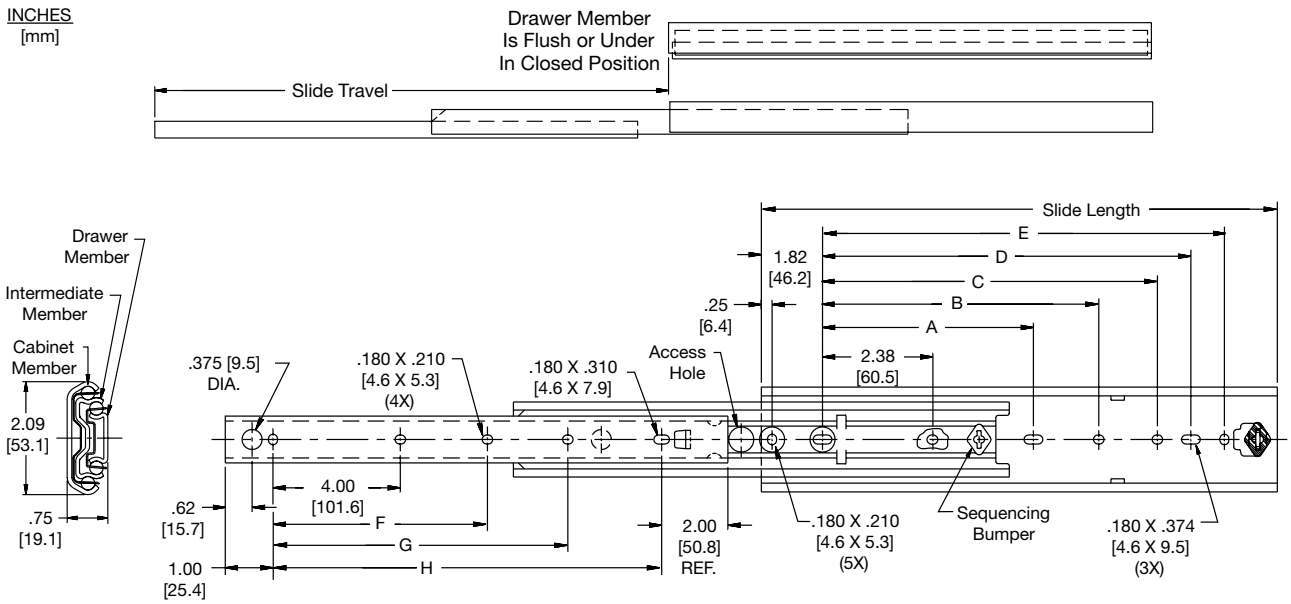
- **1" overtravel.**
- **Hold close feature prevents bounce back.**
- **Non-handed.**

**STEEL, FULL EXTENSION SLIDE**
**250 lbs/pair @ 18" LENGTH**



**Material: Cold rolled steel**
**Finish: Zinc plate**

| PART NUMBER | Slide Length | Slide Travel | Load Rating lbs (kg) per Pair | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **C3601-12P** | 12.00 (304.8) | 13.00 (330.2) | 255 (116) | - | 5.33 (135.4) | 7.05 (179.1) | 8.05 (204.5) | 9.05 (229.9) | | 6.13 (155.6) | 9.00 (228.6) |
| **C3601-14P** | 14.00 (355.6) | 15.00 (381.0) | 248 (112) | - | 7.33 (186.2) | 9.05 (229.9) | 10.05 (255.3) | 11.05 (280.7) | | 8.13 (206.4) | 11.00 (279.4) |
| **C3601-16P** | 16.00 (406.4) | 17.00 (431.8) | 241 (109) | - | 9.33 (237.0) | 11.05 (280.7) | 12.05 (306.1) | 13.05 (331.5) | | 10.13 (257.2) | 13.00 (330.2) |
| **C3601-18P** | 18.00 (457.2) | 19.00 (482.6) | 234 (106) | 7.50 (190.5) | 11.33 (287.8) | 13.05 (331.5) | 14.05 (356.9) | 15.05 (382.3) | | 12.13 (308.0) | 15.00 (381.0) |
| **C3601-20P** | 20.00 (508.0) | 21.00 (533.4) | 225 (102) | 8.50 (215.9) | 13.33 (338.6) | 15.05 (382.3) | 16.05 (407.7) | 17.05 (433.1) | 8.00 (203.2) | 14.13 (358.8) | 17.00 (431.8) |
| **C3601-22P** | 22.00 (558.8) | 23.00 (584.2) | 215 (98) | 9.50 (241.3) | 15.33 (389.4) | 17.05 (433.1) | 18.05 (458.5) | 19.05 (483.9) | 9.00 (228.6) | 16.13 (409.6) | 19.00 (482.6) |
| **C3601-24P** | 24.00 (619.6) | 25.00 (635.0) | 203 (92) | 10.50 (266.7) | 17.33 (440.2) | 19.05 (483.9) | 20.05 (509.3) | 21.05 (534.7) | 10.00 (254.0) | 18.13 (460.4) | 21.00 (533.4) |
| **C3601-26P** | 26.00 (660.4) | 27.00 (685.8) | 188 (85) | 11.5 (292.1) | 19.33 (491.0) | 21.05 (534.7) | 22.05 (560.1) | 23.05 (585.5) | 11.00 (279.4) | 20.13 (511.2) | 23.00 (584.2) |
| **C3601-28P** | 28.00 (711.2) | 29.00 (736.6) | 169 (77) | 12.50 (317.5) | 21.33 (541.8) | 23.05 (585.5) | 24.05 (610.9) | 25.05 (636.6) | 12.00 (304.8) | 22.13 (562.0) | 25.00 (653.0) |

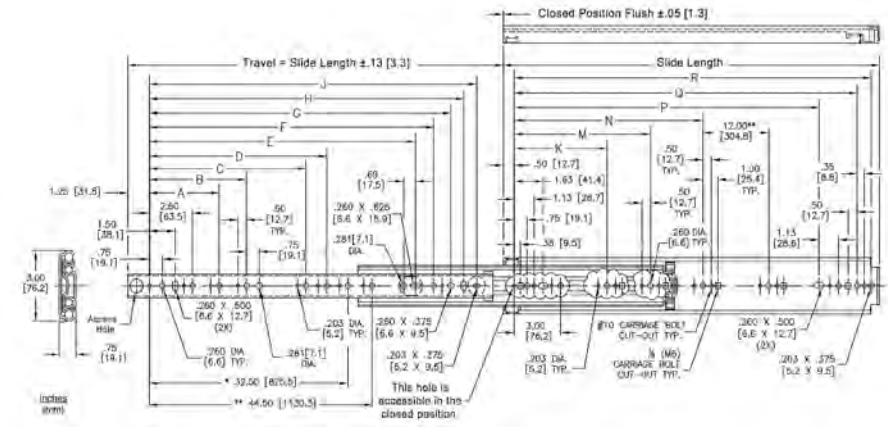



**Note: Load rating will decrease with slide length.**
**Ratings are for reference only.**

Accuride®

### STEEL, FULL EXTENSION SLIDE
### 500 lbs/pair @ 18" LENGTH

- **Full extension.**
- **.75" side space.**
- **Silenced movement.**
- **Lockout version available.**
- **Lock-in and lockout version available.**




**Material:** Cold rolled steel
**Finish:** Zinc plate

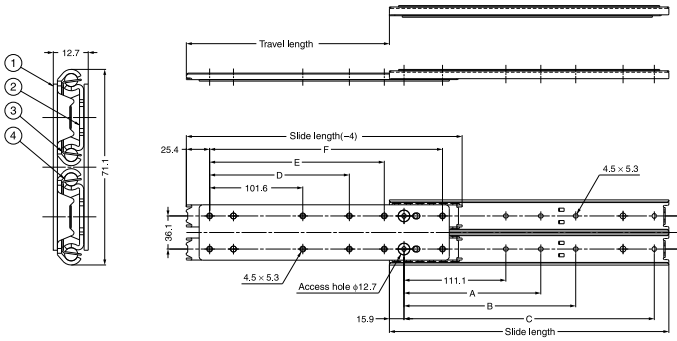
**Note:** Load rating will decrease with slide length. Ratings are for reference only.

| PART NUMBER | Slide Length | Slide Travel | A | B | C | D | E | F | G | H | J | K | M | N | P | Q | R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C9301-10P | 10.00 (254.0) | 10.00 (254.0) | | | | | | 4.06 (103.1) | 5.06 (128.5) | 5.81 (147.6) | 6.56 (166.6) | | | | 6.00 (152.4) | 8.25 (209.6) | 9.00 (228.6) |
| C9301-12P | 12.00 (304.8) | 12.00 (304.8) | | | | | | 6.06 (153.9) | 7.06 (179.3) | 7.81 (198.4) | 8.56 (217.4) | | | | 8.00 (203.2 | 10.25 (260.4) | 11.00 (279.4) |
| C9301-14P | 14.00 (355.6) | 14.00 (355.6) | | | | | | 8.06 (204.7) | 9.06 (230.1) | 9.81 (249.2) | 10.56 (268.2) | | | | 10.00 (254.0) | 12.25 (311.2) | 13.00 (330.2) |
| C9301-16P | 16.00 (406.4) | 16.00 (406.4) | 5.00 (127.0) | | | | | 10.06 (255.5) | 11.06 (280.9) | 11.81 (299.9) | 12.56 (319.0) | | | | 12.00 (304.8) | 14.25 (361.9) | 15.00 (381.0) |
| C9301-18P | 18.00 (457.2) | 18.00 (457.2) | 5.00 (127.0) | | | | 9.69 (246.1) | 12.06 (306.3) | 13.06 (331.7) | 13.81 (350.8) | 14.56 (369.8) | | | | 14.00 (355.6) | 16.25 (412.8) | 17.00 (431.8) |
| C9301-20P | 20.00 (508.0) | 20.00 (508.0) | 5.00 (127.0) | 7.50 (190.5) | | | 11.69 (296.9) | 14.06 (357.1) | 15.06 (382.5) | 15.81 (401.6) | 16.56 (420.6) | | | | 16.00 (406.4) | 18.25 (463.6) | 19.00 (482.6) |
| C9301-22P | 22.00 (558.8) | 22.00 (558.8) | 5.00 (127.0) | 7.50 (190.5) | | | 13.69 (347.7) | 16.06 (407.9) | 17.06 (433.3) | 17.81 (452.4) | 18.56 (471.4) | | | | 18.00 (457.2) | 20.25 (514.4) | 21.00 (533.4) |
| C9301-24P | 24.00 (619.6) | 24.00 (619.6) | 5.00 (127.0) | 7.50 (190.5) | | | 15.69 (398.5) | 18.06 (458.7) | 19.06 (484.1) | 19.81 (503.2) | 20.56 (522.2) | | | | 20.00 (508.0) | 22.25 (565.2) | 23.00 (584.2) |
| C9301-26P | 26.00 (660.4) | 26.00 (660.4) | 5.00 (127.0) | 7.50 (190.5) | | | 17.69 (449.3) | 20.06 (509.5) | 21.06 (534.9) | 21.81 (553.9) | 22.56 (573.0) | | | | 22.00 (558.8) | 24.25 (615.9) | 25.00 (635.0) |
| C9301-28P | 28.00 (711.2) | 28.00 (711.2) | 5.00 (127.0) | 7.50 (190.5) | | | 19.69 (500.1 | 22.06 (560.3) | 23.06 (585.7) | 23.81 (604.8) | 24.56 (623.8) | | | | 24.00 (609.6) | 26.25 (666.8) | 27.00 (685.8) |
| C9301-30P | 30.00 (762.0) | 30.00 (762.0) | 5.00 (127.0) | 7.50 (190.5) | 14.50 (368.3) | | 21.69 (550.9) | 24.06 (611.1) | 25.06 (636.5) | 25.81 (655.6) | 26.56 (674.6) | 9.25 (234.9) | | 19.75 (501.6) | 26.00 (660.4) | 28.25 (717.6) | 29.00 (736.6) |
| C9301-32P | 32.00 (812.8) | 32.00 (812.8) | 5.00 (127.0) | 7.50 (190.5) | 14.50 (368.3) | | 23.69 (601.7) | 26.06 (661.9) | 27.06 (687.3) | 27.81 (706.4) | 28.56 (725.4) | 9.25 (234.9) | 15.50 (393.7) | 21.75 (552.5) | 28.00 (711.2) | 30.25 (768.4) | 31.00 (787.4) |
| C9301-34P | 34.00 (863.6) | 34.00 (863.6) | 5.00 (127.0) | 7.50 (190.5) | 14.50 (368.3) | 18.50 (469.9) | 25.69 (652.5) | 28.06 (712.7) | 29.06 (738.1) | 29.81 (757.2) | 30.56 (776.2) | 9.25 (234.9) | 16.50 (419.1) | 23.75 (603.3) | 30.00 (762.0) | 32.25 (819.2) | 33.00 (838.2 |
| C9301-36P | 36.00 (914.4) | 36.00 (914.4) | 5.00 (127.0) | 7.50 (190.5) | 14.50 (368.3) | 20.50 (520.7) | 27.69 (703.3) | 30.06 (763.5) | 31.06 (788.9) | 31.81 (807.9) | 32.56 (827.0) | 9.25 (234.9) | 17.50 (444.5) | 25.75 (654.1) | 32.00 (812.8) | 34.25 (870.0) | 35.00 (889.0) |
| C9301-40P | 40.00 (1016.0) | 40.00 (1016.0) | 5.00 (127.0) | 7.50 (190.5) | 14.50 (368.3) | 20.50 (520.7) | 31.69 (804.9) | 34.06 (865.1) | 35.06 (890.5) | 35.81 (909.6) | 36.56 (928.6) | 9.25 (234.9) | 21.50 (546.1) | 29.75 (755.7) | 36.00 (914.4) | 38.25 (971.6) | 39.00 (990.6) |
| C9301-42P | 42.00 (1066.8) | 42.00 (1066.8) | 5.00 (127.0) | 7.50 (190.5) | 14.50 (368.3) | 20.50 (520.7) | 33.69 (855.7) | 36.06 (915.9) | 37.06 (941.3) | 37.81 (960.4) | 38.56 (979.4) | 9.25 (234.9) | 21.50 (546.1) | 31.75 (806.5) | 38.00 (965.2) | 40.25 (1022.4) | 41.00 (1041.4) |
| C9301-44P | 44.00 (1117.6) | 44.00 (1117.6) | 5.00 (127.0) | 7.50 (190.5) | 14.50 (368.3) | 20.50 (520.7) | 35.69 (906.5) | 38.06 (966.7) | 39.06 (992.1) | 39.81 (1011.2) | 40.56 (1030.2) | 9.25 (234.9) | 21.5 (546.1) | 33.75 (857.3) | 40.00 (1016.0) | 42.25 (1073.2) | 43.00 (1092.2) |
| C9301-48P | 48.00 (1219.2) | 48.00 (1219.2) | 5.00 (127.0) | 7.50 (190.5) | 14.50 (368.3) | 20.50 (520.7) | 39.69 (1008.1) | 42.06 (1068.3) | 43.06 (1093.7) | 43.81 (1112.8) | 44.56 (1131.8) | 9.25 (234.9) | 23.50 (596.9) | 37.75 (958.9) | 44.00 (1117.6) | 46.25 (1174.8) | 47.00 (113.8) |
| C9301-60P | 60.00 (1524.0) | 60.00 (1524.0) | 5.00 (127.0) | 7.50 (190.5) | 14.50 (368.3) | 20.50 (520.7) | 51.69 (1312.9) | 54.06 (1373.1) | 55.06 (1398.5) | 55.81 (1417.6) | 56.56 (1436.6) | 9.25 (234.9) | 23.50 (596.9) | 37.75 (958.9) | 56.00 (1422.4) | 58.25 (1479.6) | 59.00 (1498.6) |

- **Positive stop.**
- **Non-handed.**
- **Heavy duty.**

| Ref. # | Part | Material |
|---|---|---|
| 1 | Outer rail | 304 stainless steel BA |
| 2 | Inner rail | |
| 3 | Retainer | |
| 4 | Balls | 304 Stainless steel |

## STAINLESS STEEL, 3/4 EXTENSION DOUBLE RAIL SLIDE
## 225 lbs/pair @ 18" LENGTH



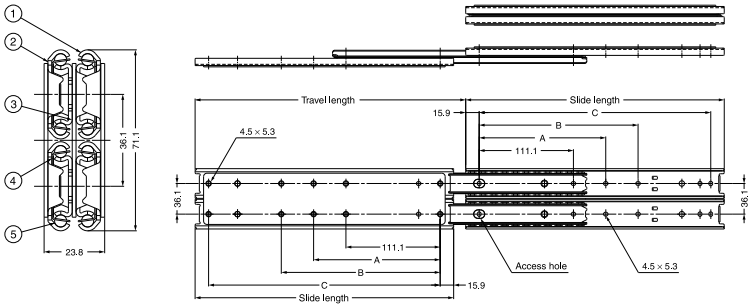


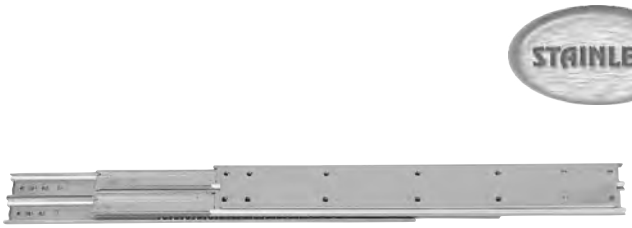


| PART NUMBER | Slide Length | Travel Length | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|
| **ESR-5-12** | 304.8mm (12.00") | 221.5mm (8.72") | - | 149.2mm (5.87") | 273.0mm (10.75") | - | 152.4mm (6.00") | 254.0mm (10.00") |
| **ESR-5-14** | 355.6mm (14.00") | 259.6mm (10.22") | - | 200.0mm (7.87") | 323.8mm (12.75") | - | 203.2mm (8.00") | 304.8mm (12.00") |
| **ESR-5-16** | 406.4mm (16.00") | 297.7mm (11.72") | - | 250.8mm (9.87") | 374.6mm (14.75") | - | 254.0mm (10.00") | 355.6mm (14.00") |
| **ESR-5-18** | 457.2mm (18.00") | 348.5mm (13.72") | 212.7mm (8.37") | 301.6mm (11.87") | 425.4mm (16.75") | 203.2mm (8.00") | 304.8mm (12.00") | 406.4mm (16.00") |
| **ESR-5-20** | 508.0mm (20.00") | 361.2mm (14.22") | 238.1mm (9.37") | 352.4mm (13.87") | 476.2mm (18.75") | 228.6mm (9.00") | 355.6mm (14.00") | 457.2mm (18.00") |
| **ESR-5-22** | 558.8mm (22.00") | 424.7mm (16.72") | 263.5mm (10.37") | 403.2mm (15.87") | 527.0mm (20.75") | 254.0mm (10.00") | 406.4mm (16.00") | 508.0mm (20.00") |
| **ESR-5-24** | 609.6mm (24.00") | 450.1mm (17.72") | 288.9mm (11.37") | 454.0mm (17.87") | 577.8mm (22.75") | 279.4mm (11.00") | 457.2mm (18.00") | 558.8mm (22.00") |
| **ESR-5-26** | 660.4mm (26.00") | 462.8mm (18.22") | 314.3mm (12.37") | 504.8mm (19.87") | 628.6mm (24.75") | 304.8mm (12.00") | 508.0mm (20.00") | 609.6mm (24.00") |
| **ESR-5-28** | 711.2mm (28.00") | 500.9mm (19.72") | 339.7mm (13.37") | 555.6mm (21.87") | 679.4mm (26.75") | 330.2mm (13.00") | 558.8mm (22.00") | 660.4mm (26.00") |

- **Positive stop.**
- **Non-handed.**
- **Heavy duty.**

## STAINLESS, FULL EXTENSION DOUBLE RAIL SLIDE
## 550 lbs/pair @ 18" LENGTH




| Ref. # | Part | Material |
|---|---|---|
| 1 | Outer rail | 304 stainless steel BA |
| 2 | Inner rail | |
| 3 | Middle rail | |
| 4 | Retainer | |
| 5 | Balls | 304 Stainless steel |

| PART NUMBER | Slide Length | Travel Length | A | B | C |
|---|---|---|---|---|---|
| **ESR-10-12** | 304.8mm (12.00") | 319.0mm (12.56") | - | 149.2mm (5.87") | 273.0mm (10.75") |
| **ESR-10-14** | 355.6mm (14.00") | 369.8mm (14.56") | - | 200.0mm (7.87") | 323.8mm (12.75") |
| **ESR-10-16** | 406.4mm (16.00") | 420.6mm (16.56") | - | 250.8mm (9.87") | 374.6mm (14.75") |
| **ESR-10-18** | 457.2mm (18.00") | 471.4mm (18.56") | 212.7mm (8.37") | 301.6mm (11.87") | 425.4mm (16.75") |
| **ESR-10-20** | 508.0mm (20.00") | 522.2mm (20.56") | 238.1mm (9.37") | 352.4mm (13.87") | 476.2mm (18.75") |
| **ESR-10-22** | 558.8mm (22.00") | 573.0mm (22.56") | 263.5mm (10.37") | 403.2mm (15.87") | 527.0mm (20.75") |
| **ESR-10-24** | 609.6mm (24.00") | 623.8mm (24.56") | 288.9mm (11.37") | 454.0mm (17.87") | 577.8mm (22.75") |
| **ESR-10-26** | 660.4mm (26.00") | 674.6mm (26.56") | 314.3mm (12.37") | 504.8mm (19.87") | 628.6mm (24.75") |
| **ESR-10-28** | 711.2mm (28.00") | 725.4mm (28.56") | 339.7mm (13.37") | 555.6mm (21.87") | 679.4mm (26.75") |

**<u>Note</u>: Load rating will decrease with slide length. Ratings are for reference only.**

# DRAWER SLIDES

## SPECIAL FEATURE SLIDES – LOCKS IN EXTENSION

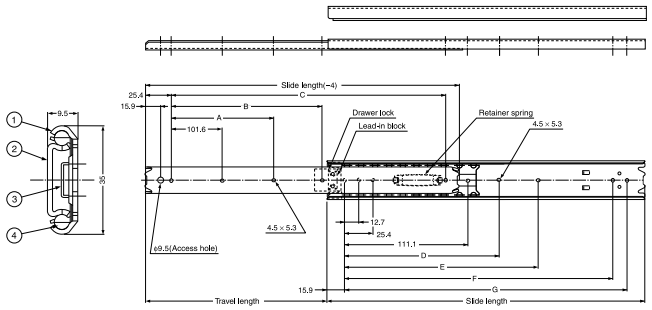
### STAINLESS, 3/4 EXTENSION LOCKING SLIDE 90 lbs/pair @ 18" LENGTH

- **Positive lock in extension.**
- **Front disconnect – easy assembly.**






| Ref. # | Part | Material |
|---|---|---|
| 1 | Outer rail | 304 stainless steel BA |
| 2 | Inner rail | |
| 3 | Retainer | |
| 4 | Balls | 304 Stainless steel |




| PART NUMBER | Slide Length | Travel Length | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|---|---|
| **ESR-8-12** | 304.8mm (12.00") | 228.6mm (9.00") | - | 152.4mm (6.00") | 254.0mm (10.00") | - | 149.2mm (5.87") | 260.3mm (10.25") | 273.0mm (10.75") |
| **ESR-8-14** | 355.6mm (14.00") | 279.4mm (11.00") | - | 203.2mm (8.00") | 304.8mm (12.00") | - | 200.0mm (7.87") | 311.1mm (12.25") | 323.8mm (12.75") |
| **ESR-8-16** | 406.4mm (16.00") | 304.8mm (12.00") | - | 254.0mm (10.00") | 355.6mm (14.00") | - | 250.8mm (9.87") | 361.9mm (14.25") | 374.6mm (14.75") |
| **ESR-8-18** | 457.2mm (18.00") | 330.2mm (13.00") | 203.2mm (8.00") | 304.8mm (12.00") | 406.4mm (16.00") | 212.7mm (8.37") | 301.6mm (11.87") | 412.7mm (16.25") | 425.4mm (16.75") |
| **ESR-8-20** | 508.0mm (20.00") | 381.0mm (15.00") | 228.6mm (9.00") | 355.6mm (14.00") | 457.2mm (18.00") | 238.1mm (9.37") | 352.4mm (13.87") | 463.5mm (18.25") | 476.2mm (18.75") |
| **ESR-8-22** | 558.8mm (22.00") | 406.4mm (16.00") | 254.0mm (10.00") | 406.4mm (16.00") | 508.0mm (20.00") | 263.5mm (10.37") | 403.2mm (15.87") | 514.3mm (20.25") | 527.0mm (20.75") |
| **ESR-8-24** | 609.6mm (24.00") | 431.8mm (17.00") | 279.4mm (11.00") | 457.2mm (18.00") | 558.8mm (22.00") | 288.9mm (11.37") | 454.0mm (17.87") | 565.1mm (22.25") | 577.8mm (22.75") |
| **ESR-8-26** | 660.4mm (26.00") | 482.6mm (19.00") | 304.8mm (12.00") | 508.0mm (20.00") | 609.6mm (24.00") | 314.3mm (12.37") | 504.8mm (19.87") | 615.9mm (24.25") | 628.6mm (24.75") |
| **ESR-8-28** | 711.2mm (28.00") | 508.0mm (20.00") | 330.2mm (13.00") | 558.8mm (22.00") | 660.4mm (26.00") | 339.7mm (13.37") | 555.6mm (21.87") | 666.7mm (26.25") | 679.4mm (26.75") |

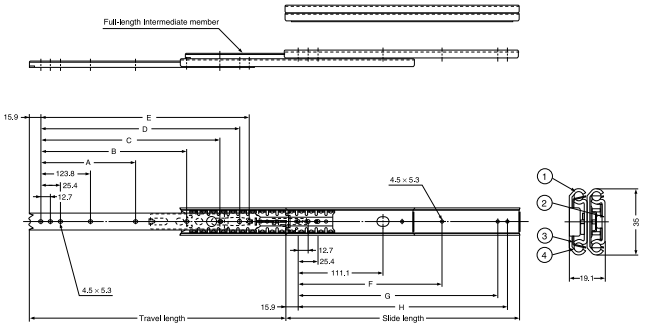
### STAINLESS, FULL EXTENSION LOCKING SLIDE 115 lbs/pair @ 18" LENGTH

- **Positive lock in extension.**
- **Front disconnect – easy assembly.**






| Ref. # | Part | Material |
|---|---|---|
| 1 | Outer rail | 304 stainless steel BA |
| 2 | Inner rail | |
| 3 | Retainer | |
| 4 | Balls | 304 Stainless steel |




| PART NUMBER | Slide Length | Travel Length | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|---|
| **ESR-7-12** | 304.8mm (12.00") | 336.0mm (13.23") | - | - | - | 260.3mm (10.25") | 273.0mm (10.75") | - | 260.3mm (10.25") | 273.0mm (10.75") |
| **ESR-7-14** | 355.6mm (14.00") | 386.8mm (15.23") | - | - | 298.4mm (11.75") | 311.1mm (12.25") | 323.8mm (12.75") | - | 311.1mm (12.25") | 323.8mm (12.75") |
| **ESR-7-16** | 406.4mm (16.00") | 437.6mm (17.23") | - | - | 349.2mm (13.75") | 361.9mm (14.25") | 374.6mm (14.75") | 250.8mm (9.87") | 361.9mm (14.25") | 374.6mm (14.75") |
| **ESR-7-18** | 457.2mm (18.00") | 488.4mm (19.23") | 212.7mm (8.37") | - | 400.0mm (15.75") | 412.7mm (16.25") | 425.4mm (16.75") | 301.6mm (11.87") | 412.7mm (16.25") | 425.4mm (16.75") |
| **ESR-7-20** | 508.0mm (20.00") | 539.2mm (21.23") | 238.1mm (9.37") | 365.1mm (14.37") | 450.8mm (17.75") | 463.5mm (18.25") | 476.2mm (18.75") | 352.4mm (13.87") | 463.5mm (18.25") | 476.2mm (18.75") |
| **ESR-7-22** | 558.8mm (22.00") | 590.0mm (23.23") | 263.5mm (10.37") | 415.9mm (16.37") | 501.6mm (19.75") | 514.3mm (20.25") | 527.0mm (20.75") | 403.2mm (15.87") | 514.3mm (20.25") | 527.0mm (20.75") |
| **ESR-7-24** | 609.6mm (24.00") | 640.8mm (25.23") | 288.9mm (11.37") | 466.7mm (18.37") | 552.4mm (21.75") | 565.1mm (22.25") | 577.8mm (22.75") | 454.0mm (17.87") | 565.1mm (22.25") | 577.8mm (22.75") |
| **ESR-7-26** | 660.4mm (26.00") | 691.6mm (27.23") | 314.3mm (12.37") | 517.5mm (20.37") | 603.2mm (23.75") | 615.9mm (24.25") | 628.6mm (24.75") | 504.8mm (19.87") | 615.9mm (24.25") | 628.6mm (24.75") |
| **ESR-7-28** | 711.2mm (28.00") | 742.4mm (29.23") | 339.7mm (13.37") | 568.3mm (22.37") | 654.0mm (25.75") | 666.7mm (26.25") | 679.4mm (26.75") | 555.6mm (21.87") | 666.7mm (26.25") | 679.4mm (26.75") |

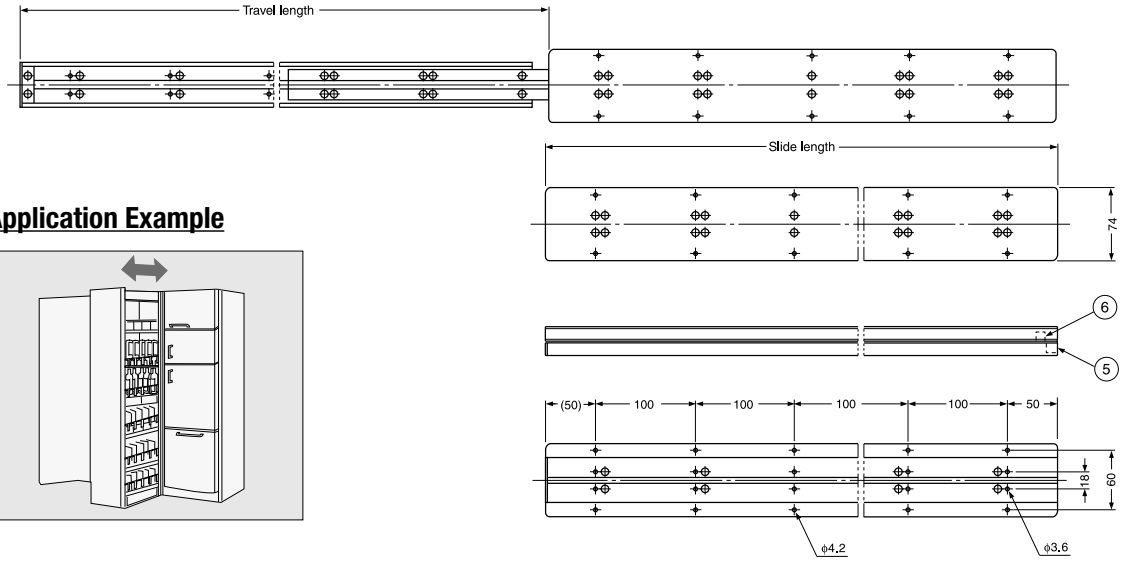
**Note:** **Load rating will decrease with slide length.**
**Ratings are for reference only.**

- **Carries loads from underneath.**
- **1" plus of over travel.**
- **Positive stop.**
- **Non-handed.**
- **Heavy – duty.**

**STAINLESS, FULL EXTENSION FLOOR MOUNT SLIDE**
**187 lbs/pair @ 500 mm LENGTH**

STAINLESS

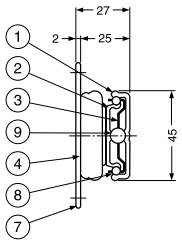





**Application Example**



| PART NUMBER | Slide Legnth | Travel Legnth | # of mounting holes | Load Rating (per pair) |
|---|---|---|---|---|
| **TSS3-300** | 300 mm (11.81") | 336 mm (13.23") | 6 | 209 lbs. |
| **TSS3-400** | 400 mm (15.75") | 436 mm (17.17") | 8 | 198 lbs. |
| **TSS3-500** | 500 mm (19.69") | 536 mm (21.10") | 10 | 187 lbs. |
| **TSS3-600** | 600 mm (23.62") | 636 mm (25.04") | 12 | 176 lbs. |
| **TSS3-800** | 800 mm (31.50") | 836 mm (32.91") | 16 | 143 lbs. |
| **TSS3-1000** | 1000 mm (39.37") | 1036 mm (40.78") | 20 | 110 lbs. |

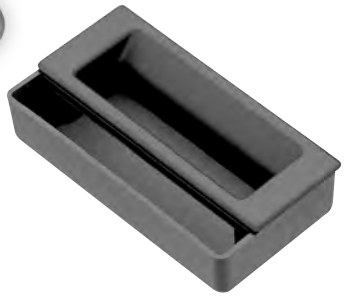


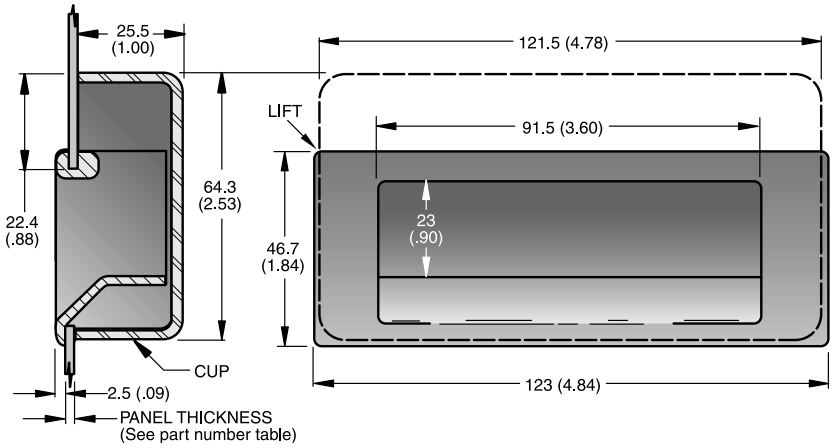

| Ref. # | Part | Material |
|---|---|---|
| 1 | Outer rail | 304 stainless steel BA |
| 2 | Inner rail | |
| 3 | Retainer | |
| 4 | End stopper | Polyamide |
| 5 | Outer guide | Polyacetal |
| 6 | Inner guide | |
| 7 | Plate | 304 Stainless steel |
| 8 | Large balls | Steel |
| 9 | Small balls | |

## FLUSH PULL, 2 PIECE DESIGN

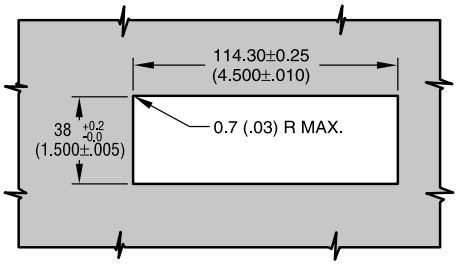
- Available with UL 94-V0 flammability rating.
- For lifting or pulling.
- Lifting load is transferred to the panel edge.
- Screw-mount installation.
- Mounting screws are included.

NON-CORROSIVE






### PANEL PREPARATION




| PART NUMBERS | | PANEL THICKNESS | |
|---|---|---|---|
| ABS, Black UL 94-HB | ABS, Black UL 94-V0 | MIN. | MAX. |
| P1-30-101-11 | P1-31 | 1 (.040) | 1.8 (.070) |
| P1-30-103-11 | P1-33 | 1.8 (.070) | 3.3 (.130) |
| P1-30-105-11 | P1-35 | 3.3 (.130) | 4.8 (.190) |
| P1-30-107-11 | P1-37 | 4.8 (.190) | 6.3 (.250) |

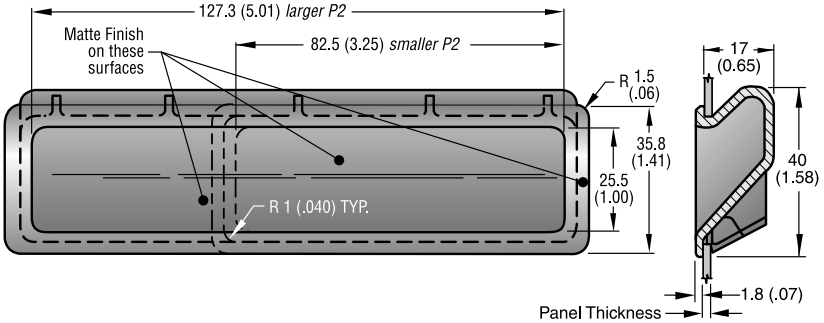
## FLUSH PULL, SNAP-IN DESIGN

- Available with UL 94-V0 flammability rating.
- Single hole, "snap-in" installation.
- For lifting or pulling.
- Lifting load is transferred directly to the panel edge.
- Custom colors available for high volume applications.

NON-CORROSIVE

NSF





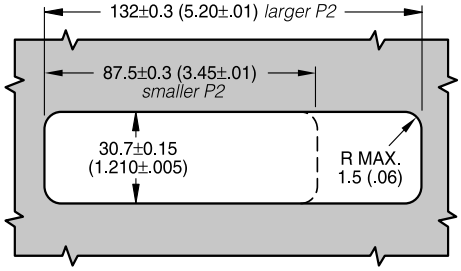

### ABS, BLACK UL 94-V0

| PART NUMBERS | | PANEL THICKNESS | |
|---|---|---|---|
| Large | Small | MIN. | MAX. |
| P2-51-1 | P2-41-1 | 1 (.040) | 1.4 (.055) |
| P2-52-1 | P2-42-1 | 1.4 (.055) | 1.8 (.070) |
| P2-53-1 | P2-43-1 | 1.8 (.070) | 2.1 (.085) |
| P2-54-1 | P2-44-1 | 2.1 (.085) | 2.5 (.100) |

### ABS, BLACK UL 94-HB

| PART NUMBERS | | PANEL THICKNESS | |
|---|---|---|---|
| Large | Small | MIN. | MAX. |
| P2-51-1 | P2-41-1 | 1 (.040) | 1.4 (.055) |
| P2-52-1 | P2-42-1 | 1.4 (.055) | 1.8 (.070) |
| P2-53-1 | P2-43-1 | 1.8 (.070) | 2.1 (.085) |
| P2-54-1 | P2-44-1 | 2.1 (.085) | 2.5 (.100) |

### PANEL PREPARATION

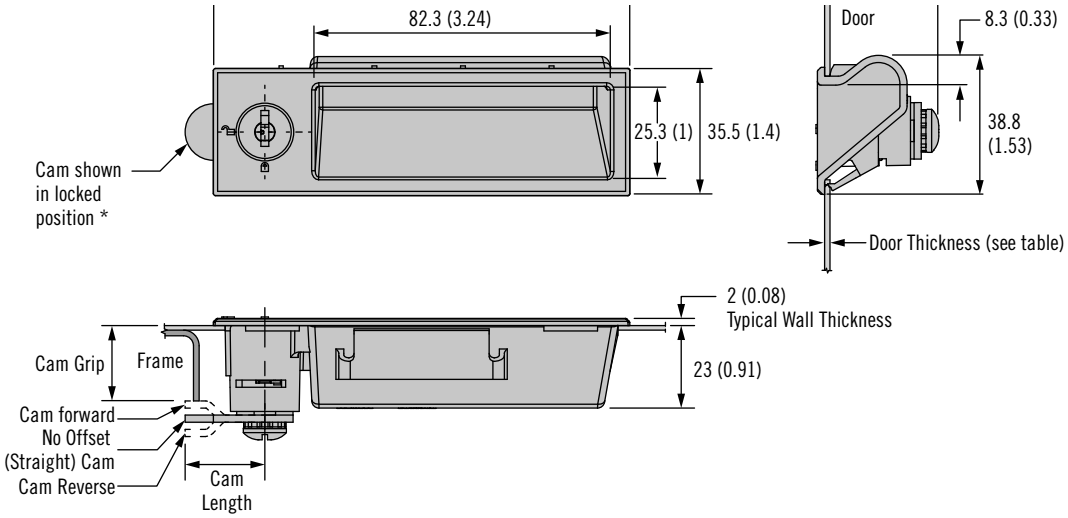


- **Snap-in installation**
- **Lockable**
- **Lock core included or sold separately**
- **Cam sold separately**
- **Low Profile, lift or pull, single hole mount**

## P2 FLUSH PULL, LOCKABLE



### TYPE B (COUNTER-CLOCKWISE) VERSION SHOWN

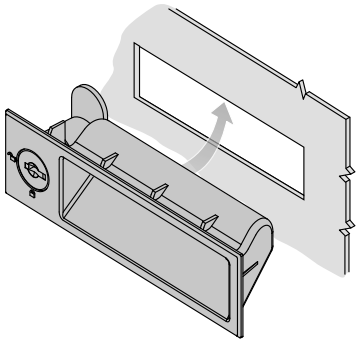


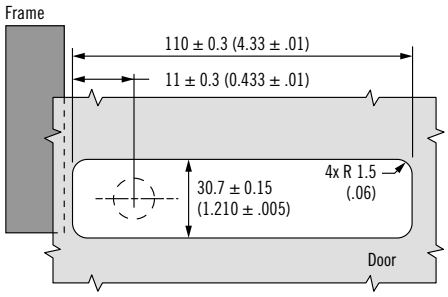

### MATERIAL AND FINISH

Pull: ABS plastic, black

Lock parts:
Zinc alloy powder coated,
Brass, Steel zinc plated, Buna-N

Flammability Rating
UL94-HB or UL94-VO






| Cam Forward Grip | Cam Reversed Grip | Cam Offset |
|---|---|---|
| 25 (0.98) | 25 (0.98) | No Offset |
| 21.8 (0.86) | 28.2 (1.11) | 3.2 (1.25) |
| 18.6 (0.73) | 31.4 (1.24) | 6.4 (.250) |
| 15.5 (0.61) | 34.5 (1.36) | 9.5 (.375) |

* Cam ordered separately for cam part numbers and options contact Clancey.

### PART NUMBER SELECTION

(*Cam Ordered Separately)

**P2 - 4 D M - R L**

**D Door Thickness Range**
- **1** 1.0 (.040) - 1.4 (.055)
- **2** 1.4 (.055) - 1.8 (.070)
- **3** 1.8 (.070) - 2.1 (.085)
- **4** 2.1 (.085) - 2.5 (.100)

**M Material**
- **1** UL94-V0 PC/ABS
- **2** UL94-HB ABS

**R Rotation**
- **1** Type A (Clockwise)
- **2** Type B (Counter-Clockwise)

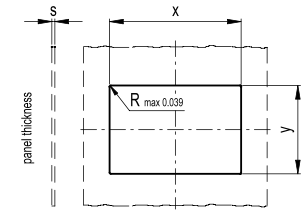
**L Lock Style**
- **2** With lock core, keyed alike CH751 (with two flat keys supplied)
- **9** Without lock core, contact Clancey.

## ERGOSTYLE® FLUSH PULL

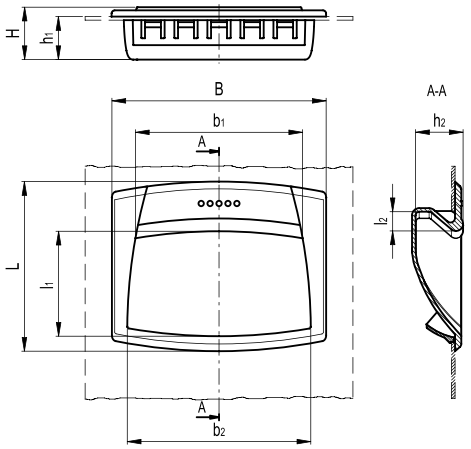
- Ergonomic design for secure grip.
- 2 standard sizes.
- Snap-in installation.

NON-CORROSIVE






Drilling template
We recommended to eliminate all drilling burrs before fitting the handle.




| Panel Preparation | | | | |
|---|---|---|---|---|
| Panel Thickness "s" | 261051 | | 261111 | |
| | x | y | x | y |
| .8mm (.032") | 85mm (3.35") | 34.9mm (1.37") | 107.5mm (4.23") | 70.6mm (2.78") |
| 1mm (.040") | 85mm (3.35") | 35.1mm (1.38") | 107.5mm (4.23") | 70.9mm (2.79") |
| 1.5mm (.060") | 85mm (3.35") | 36.1mm (1.42") | 107.5mm (4.23") | 71.1mm (2.80") |
| 2mm (.078") | 85mm (3.35") | 36.1mm (1.42") | 107.5mm (4.23") | 71.3mm (2.81") |
| 2.5mm (.098") | 85mm (3.35") | 36.1mm (1.42") | 107.5mm (4.23") | 71.6mm (2.82") |

**Material: Glass reinforced polyamide**

| PART NUMBER | Primary Dimensions | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | B | L | H | h1 | h2 | b1 | b2 | l1 | l2 |
| 261051-C1 | 90mm (3.54") | 50mm (1.97") | 19mm (.75") | 17mm (.67") | 17.5mm (.69") | 76mm (2.99") | 79mm (3.11") | 28mm (1.10") | 7mm (.28") |
| 261111-C1 | 120mm (4.72") | 95mm (3.74") | 28.5mm (11.22") | 24mm (.94") | 26.5mm (1.04") | 94mm (3.70") | 103mm (4.05") | 58mm (2.28") | 11mm (.43") |

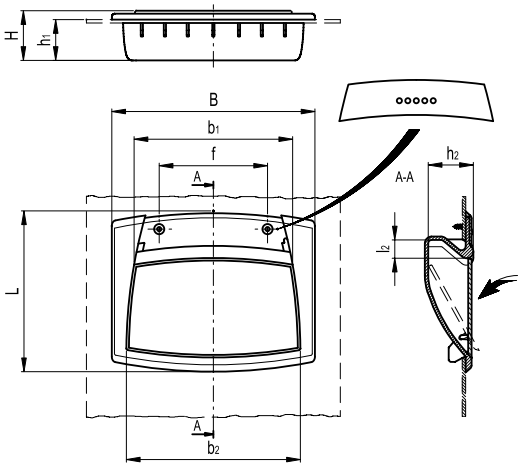
## ERGOSTYLE® FLUSH PULL W/COVER

- Cover provides a clean look.
- Hinged cover folds inward for easy grip.



**Color of screw cover can be changed by changing suffix of the part number.**

**C1 = Black** **C4 = Yellow**
**C2 = Orange** **C5 = Light Blue**
**C3 = Gray** **C6 = Red**




| PART NUMBER | Primary Dimensions | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | B | L | H | h1 | h2 | b1 | b2 | l2 |
| 261131-C1 | 120mm (4.72") | 95mm (3.74") | 28.5mm (11.22") | 24mm (.94") | 26.5mm (1.04") | 94mm (3.70") | 103mm (4.05") | 11mm (.43") |

**Snap in mounting the same as 26111 above.**
**Screw mounting available in thicker panels.**
**Call for details.**



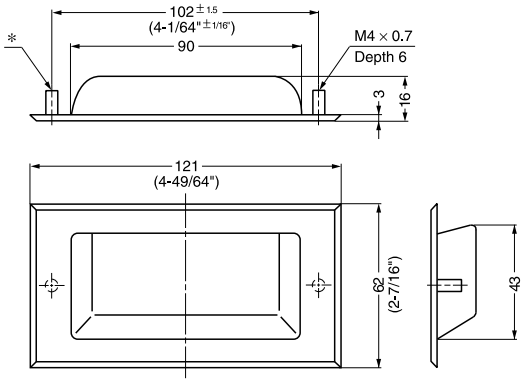

Ergostyle® is a registered trade-mark of Elesa.
Elesa Original design.

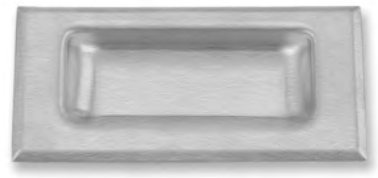
- **Great products in wash down environments.**
- **Non-corrosive stainless steel (304)**
- **No exposed mounting hardware.**

## FLUSH PULLS
## STAINLESS STEEL CUP & FACE

### RECTANGULAR BODY, "DISH" ACCESS

| PART NUMBER | Attachment Style |
|---|---|
| ES-611/ET | external thread |
| ES-611/IT | internal thread |
| ES-611/WO | weld-on |





ET
External thread

IT
Internal thread

WO
Weld-on

**ET:** **10-32 studs**

**IT:** **M4 stainless screws (included)**

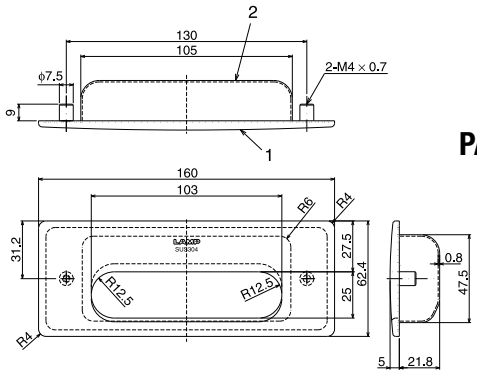
**WO:** **Weld-on**

### RECTANGULAR BODY, OVAL ACCESS

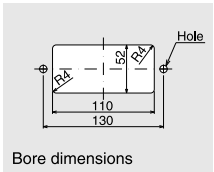
| PART NUMBER |
|---|
| HH-KL160 |



- **Minimal interior protrusion.**




**PANEL PREPARATION**

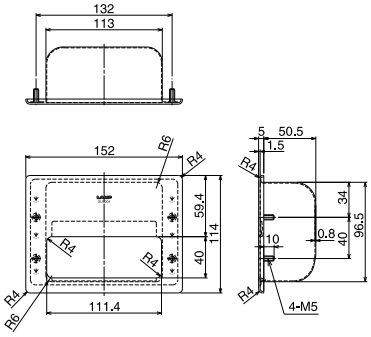



### RECTANGULAR BODY, RECTANGULAR ACCESS

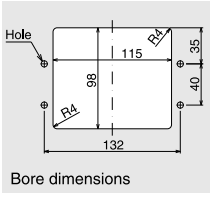
| Part Number |
|---|
| HH-KP-150 |



- **Deep recess & extra set of mounting studs for added strength.**




**PANEL PREPARATION**

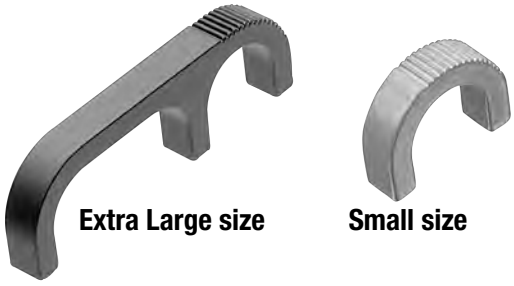


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## TEXTURED PULLS

- **Lightweight aluminum construction.**
- **Available in clear or black.**
- **Four sizes/styles to choose from.**



**Extra Large size** **Small size**

### Small size

| Thread Size (screws not included) | PART NUMBERS | |
|---|---|---|
| | Black Anodized | Clear Anodized |
| 8-32 | **B4-10-103-15** | **B4-10-103-11** |
| M4 x 0.7 | **B4-50-103-15** | **B4-50-103-11** |

### Medium size

| Thread Size (screws not included) | PART NUMBERS | |
|---|---|---|
| | Black Anodized | Clear Anodized |
| 8-32 | **B4-10-203-15** | **B4-10-203-11** |
| M4 x 0.7 | **B4-50-203-15** | **B4-50-203-11** |

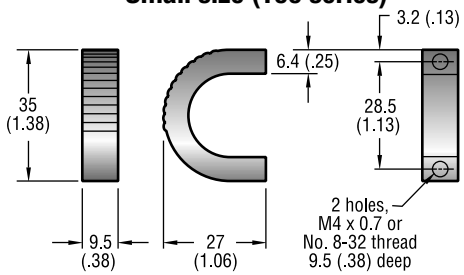
### Large size

| Thread Size (screws not included) | PART NUMBERS | |
|---|---|---|
| | Black Anodized | Clear Anodized |
| 8-32 | **B4-10-303-15** | **B4-10-303-11** |
| M4 x 0.7 | **B4-50-303-15** | **B4-50-303-11** |

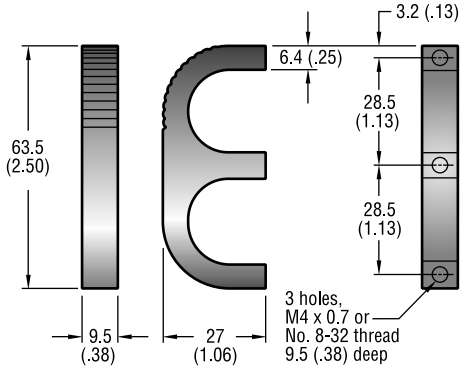
### Extra Large size

| Thread Size (screws not included) | PART NUMBERS | |
|---|---|---|
| | Black Anodized | Clear Anodized |
| 8-32 | **B4-10-403-15** | **B4-10-403-11** |
| M4 x 0.7 | **B4-50-403-15** | **B4-50-403-11** |

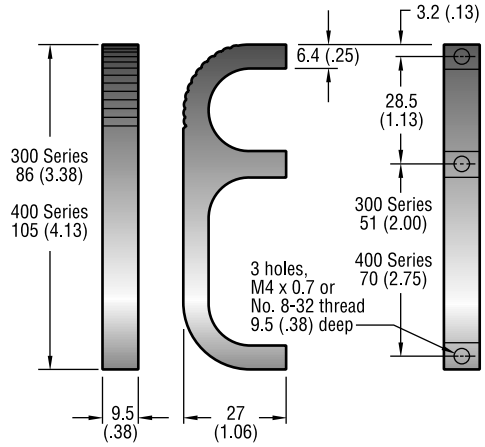
### Small size (100 series)




### Medium Size (200 series)




### Large size (300 series) and Extra Large size (400 series)



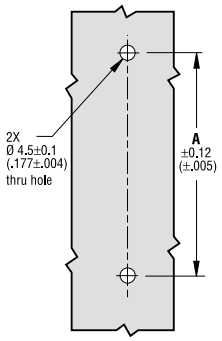
- **Two standard finish options.**
- **Four standard sizes.**

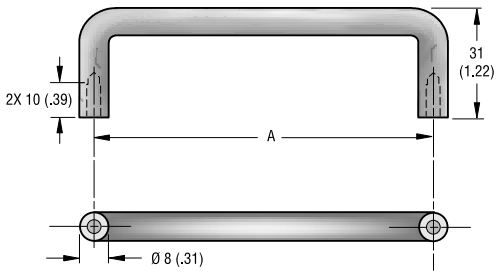
## ALUMINUM WIRE PULLS 8 mm DIAMETER

**Material:** Aluminum
**Finish:** See chart

METRIC CENTERS

**Panel Preparation**






| PART NUMBERS METRIC THREAD | | Length "A" | Mounting Hardware Thread Size |
|---|---|---|---|
| Black Anodized | Clear Anodized | | |
| P8-030-31-M4-15 | P8-030-31-M4-11 | 30 (1.18") | M4 |
| P8-064-31-M4-15 | P8-064-31-M4-11 | 64 (2.52") | |
| P8-096-31-M4-15 | P8-096-31-M4-11 | 96 (3.78") | |
| P8-128-31-M4-15 | P8-128-31-M4-11 | 128 (5.04") | |

| PART NUMBERS INCH THREAD | | Length "A" | Mounting Hardware Thread Size |
|---|---|---|---|
| Black Anodized | Clear Anodized | | |
| P8-030-31-08-15 | P8-030-31-08-11 | 30 (1.18") | 8-32 |
| P8-064-31-08-15 | P8-064-31-08-11 | 64 (2.52") | |
| P8-096-31-08-15 | P8-096-31-08-11 | 96 (3.78") | |
| P8-128-31-08-15 | P8-128-31-08-11 | 128 (5.04") | |

**Note:** Mounting hardware not included.

**THREADING**

METRIC

INCH

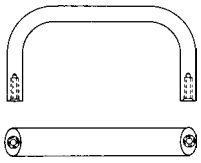
INTERNAL

EXTERNAL

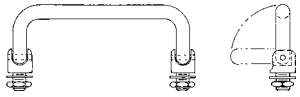
## Clancey can provide almost any size or style of wire pull handle



Round-Internal



Oval-Internal



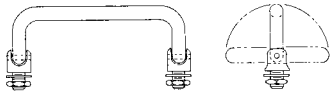
90° free fall



Round-External



1-800-747-7405
Please call for samples or a quotation.



180° free fall

**MATERIAL & FINISH**

STEEL
STAINLESS
ALUMINUM
BRASS
BLACK
MIL-SPEC
CHROME

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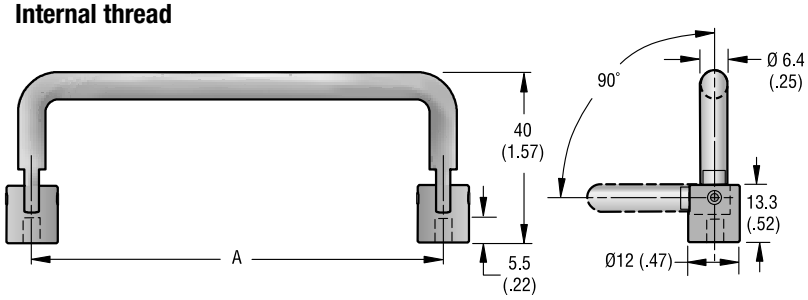
## 90° FOLDING PULLS

- 90° folding to lower protrusion.
- Built-in friction reduces rattle and yields a quality “feel”.
- 2 standard finishes, four standard lengths.

METRIC CENTERS



**Internal thread**



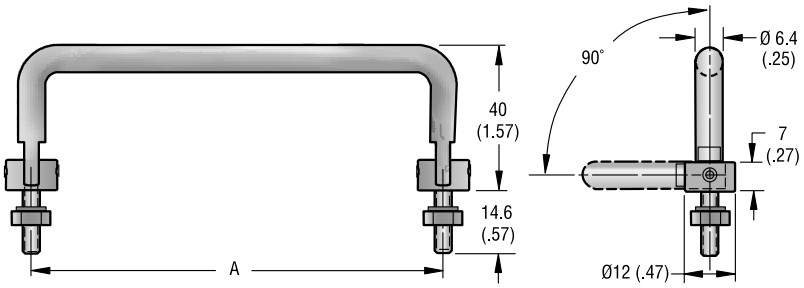

| PART NUMBERS METRIC THREAD | | Length “A” | Mounting Hardware Thread Size |
|---|---|---|---|
| Black Anodized | Clear Anodized | | |
| P9-040-40-M4N-15 | P9-040-40-M4N-11 | 40 (1.57") | M4 |
| P9-064-40-M4N-15 | P9-064-40-M4N-11 | 64 (2.52") | |
| P9-096-40-M4N-15 | P9-096-40-M4N-11 | 96 (3.78") | |
| P9-128-40-M4N-15 | P9-128-40-M4N-11 | 128 (5.04") | |

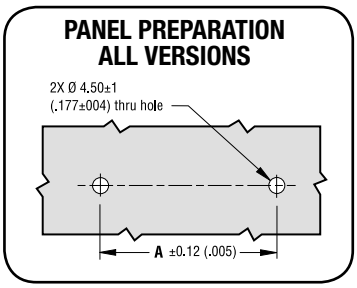
| PART NUMBERS INCH THREAD | | Length “A” | Mounting Hardware Thread Size |
|---|---|---|---|
| Black Anodized | Clear Anodized | | |
| P9-040-40-08N-15 | P9-040-40-08N-11 | 40 (1.57") | 8-32 |
| P9-064-40-08N-15 | P9-064-40-08N-11 | 64 (2.52") | |
| P9-096-40-08N-15 | P9-096-40-08N-11 | 96 (3.78") | |
| P9-128-40-08N-15 | P9-128-40-08N-11 | 128 (5.04") | |

**Material:** Handle, base - aluminum
Pin - 300 series stainless steel

**Note:** Mounting screws are not included within internal thread

**External thread**



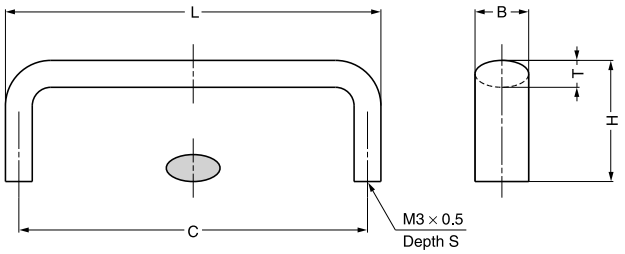

| PART NUMBERS METRIC THREAD | | Length “A” | Mounting Hardware Thread Size |
|---|---|---|---|
| Black Anodized | Clear Anodized | | |
| P9-040-40-M4X-15 | P9-040-40-M4X-11 | 40 (1.57") | M4 |
| P9-064-40-M4X-15 | P9-064-40-M4X-11 | 64 (2.52") | |
| P9-096-40-M4X-15 | P9-096-40-M4X-11 | 96 (3.78") | |
| P9-128-40-M4X-15 | P9-128-40-M4X-11 | 128 (5.04") | |

| PART NUMBERS INCH THREAD | | Length “A” | Mounting Hardware Thread Size |
|---|---|---|---|
| Black Anodized | Clear Anodized | | |
| P9-040-40-08X-15 | P9-040-40-08X-11 | 40 (1.57") | 8-32 |
| P9-064-40-08X-15 | P9-064-40-08X-11 | 64 (2.52") | |
| P9-096-40-08X-15 | P9-096-40-08X-11 | 96 (3.78") | |
| P9-128-40-08X-15 | P9-128-40-08X-11 | 128 (5.04") | |

**Material:** Handle, base - aluminum
Pin - 300 series stainless steel
Nut, lockwasher - steel, zinc plate
Bushings - nylon

**Note:** Mounting nuts are included with external thread model.

- **Mirror and satin finishes available.**
- **Supplied with mounting hardware.**




## OVAL HANDLE - STANDARD



| PART NUMBER | | DIMENSIONS | | | | MOUNTING | | |
|---|---|---|---|---|---|---|---|---|
| MIRROR FINISH | SATIN FINISH | L | H | B | T | C | S | THREAD SIZE |
| DS-30M | DS-30S | 30 (1.18") | 23 (.91") | 10 (.39") | 5 (.20") | 25 (.98") | 8 (.31") | M3 |
| DS-50M | DS-50S | 50 (1.97") | 22 (.87") | 10 (.39") | 5 (.20") | 45 (1.77") | 10 (.39") | M3 |
| DS-70M | DS-70S | 70 (2.76") | 22.5 (.89") | 10 (.39") | 5 (.20") | 65 (2.56") | 10 (.39") | M3 |
| DS-90M | DS-90S | 90 (3.54") | 23 (.91") | 10 (.39") | 5 (.20") | 85 (3.35") | 10 (.39") | M3 |

**Supplied with (2) M3 x 28 mm mounting screws**

**Material: 303 Stainless steel**

## OVAL HANDLE - ROBUST



| PART NUMBER | | DIMENSIONS | | | | MOUNTING | | |
|---|---|---|---|---|---|---|---|---|
| MIRROR FINISH | SATIN FINISH | L | H | B | T | C | S | THREAD SIZE |
| DL-70M | DL-70S | 70 (2.76") | 23 (.91") | 13 (.51") | 6 (.24") | 64 (2.52") | 10 (.39") | M4 |
| DL-90M | DL-90S | 90 (3.54") | 23.5 (.93") | 13 (.51") | 6 (.24") | 84 (3.30") | 10 (.39") | M4 |
| DL-110M | DL-110M | 110 (4.33") | 24 (.94") | 13 (.51") | 6 (.24") | 104 (4.09") | 10 (.39") | M4 |
| DL-130M | DL-130M | 130 (5.12") | 24.5 (.96") | 13 (.51") | 6 (.24") | 124 (4.88") | 10 (.39") | M4 |
| DL-150M | DL-150M | 150 (5.90") | 25 (.98") | 13 (.51") | 6 (.24") | 144 (5.67") | 10 (.39") | M4 |

**Supplied with (2) M4 x 28 mm mounting screws**

**Material: 303 Stainless steel**

## OVAL HANDLE - LOW PROFILE



| PART NUMBER | | DIMENSIONS | | | | MOUNTING | | |
|---|---|---|---|---|---|---|---|---|
| MIRROR FINISH | SATIN FINISH | L | H | B | T | C | S | THREAD SIZE |
| EC-80M | EC-80S | 80 (3.15") | 30 (1.18") | 14 (.55") | 8 (.31") | 72 (2.83") | 10 (.39") | M5 |
| EC-100M | EC-100S | 100 (3.94") | 32 (1.26") | 14 (.55") | 8 (.31") | 92 (3.62") | 10 (.39") | M5 |
| EC-120M | EC-120S | 120 (4.72") | 34 (1.34") | 14 (.55") | 8 (.31") | 112 (4.41") | 12 (.47") | M5 |
| EC-150M | EC-150S | 150 (5.91") | 36 (1.42") | 14 (.55") | 8 (.31") | 142 (5.59") | 12 (.47") | M5 |
| EC-180M | EC-180S | 180 (7.09") | 37 (1.46") | 14 (.55") | 8 (.31") | 172 (6.77") | 12 (.47") | M5 |
| EC-220M | EC-220S | 220 (8.66") | 38 (1.50") | 14 (.55") | 8 (.31") | 212 (8.35") | 12 (.47") | M5 |

**Supplied with (2) M5 x 28 mm mounting screws**

**Material: 303 Stainless steel**

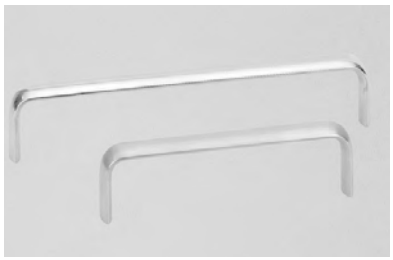
**Note: Profile change from line drawing.**

# HANDLES
## GRAB-HANDLES, STAINLESS STEEL

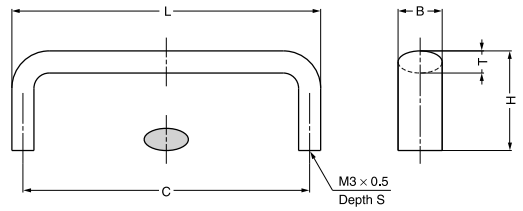
- **High grade 316 Stainless steel (select models).**
- **Mirror and Satin finishes available.**
- **Supplied with mounting hardware.**

### OVAL HANDLE - STANDARD



**Material: 316 stainless steel**




| PART NUMBER | | DIMENSIONS | | | | MOUNTING | | |
|---|---|---|---|---|---|---|---|---|
| MIRROR FINISH | SATIN FINISH | L | H | B | T | C | S | THREAD SIZE |
| KC-S635M | KC-S635S | 3.70" | 1.18" | .551" | .197" | 3.50" | .375" | 6-32 |
| KC-S640M | KC-S640S | 4.20" | 1.18" | .551" | .197" | 4.00" | .375" | 6-32 |
| KC-S650M | KC-S650S | 5.20" | 1.18" | .551" | .197" | 5.00" | .375" | 6-32 |
| KC-S660M | KC-S660S | 6.20" | 1.18" | .551" | .197" | 6.00" | .375" | 6-32 |

**Supplied with (2) 6-32 x 1" stainless steel mounting screws.**

### OVAL HANDLE - ROBUST






**Material: 316 stainless steel**

| PART NUMBER | | DIMENSIONS | | | | MOUNTING | | |
|---|---|---|---|---|---|---|---|---|
| MIRROR FINISH | SATIN FINISH | L | H | B | T | C | S | THREAD SIZE |
| EK-S635M | EK-S635S | 3.78" | 1.26" | .551" | .276" | 3.50" | .375" | 8-32 |
| EK-S640M | EK-S640S | 4.28" | 1.26" | .551" | .276" | 4.00" | .375" | 8-32 |
| EK-S650M | EK-S650S | 5.28" | 1.26" | .551" | .276" | 5.00" | .375" | 8-32 |
| EK-S660M | EK-S660S | 6.28" | 1.26" | .551" | .276" | 6.00" | .375" | 8-32 |

**Supplied with (2) 8-32 x 1" stainless steel mounting screws.**

### OVAL HANDLE - TALL PROFILE






**Material: 303 stainless steel**

| PART NUMBER | | DIMENSIONS | | | | MOUNTING | | |
|---|---|---|---|---|---|---|---|---|
| MIRROR FINISH | SATIN FINISH | L | H | B | T | C | S | THREAD SIZE |
| ECH-50M | ECH-50S | 58 (2.28") | 40 (1.57") | 14 (.55") | 8 (.31") | 50 (1.97") | 11 (.43") | M5 |
| ECH-75M | ECH-75S | 83 (3.27") | 40 (1.57") | 14 (.55") | 8 (.31") | 75 (2.92") | 11 (.43") | M5 |
| ECH-100M | ECH-100S | 108 (4.25") | 40 (1.57") | 14 (.55") | 8 (.31") | 100 (3.94") | 11 (.43") | M5 |
| ECH-125M | ECH-125S | 133 (5.24") | 40 (1.57") | 14 (.55") | 8 (.31") | 125 (4.92") | 11 (.43") | M5 |
| ECH-150M | ---- | 158 (6.22") | 50 (1.97") | 14 (.55") | 8 (.31") | 150 (5.90") | 11 (.43") | M5 |
| ECH-200M | ---- | 208 (8.19") | 50 (1.97") | 14 (.55") | 8 (.31") | 200 (7.87") | 11 (.43") | M5 |
| ECH-250M | ---- | 258 (10.16") | 50 (1.97") | 14 (.55") | 8 (.31") | 250 (9.84") | 11 (.43") | M5 |
| ECH-300M | ---- | 308 (12.13") | 50 (1.97") | 14 (.55") | 8 (.31") | 300 (11.81") | 11 (.43") | M5 |

**Supplied with (2) M5 x 28 mm mounting screws.**

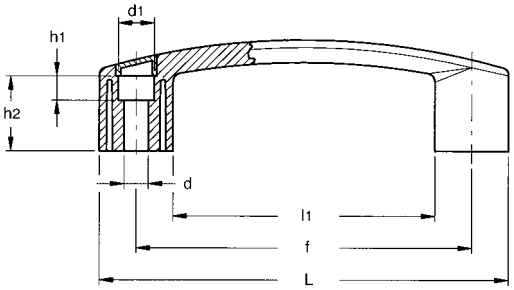
**Note: Profile change from line drawing**

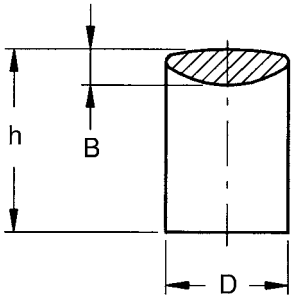
- **Sleek ergonomic design.**
- **Resistant to solvents, oils, grease and other chemical agents.**
- **Removable accent caps cover mounting hardware. Available in 6 colors.**

## FRONT MOUNTING-BRIDGE STYLE

METRIC CENTERS

DUAL HARDWARE






| FRONT MOUNTING | DIMENSIONS | | | | | | | | MOUNTING DIMENSIONS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | L | D | h | B | l1 | d1 | h1 | h2 | f | d |
| 260111-XX | 116 (4.57") | 22 (.87") | 35 (1.38") | 7.5 (.30") | 72 (2.83") | 10.5 (.41") | 6.5 (.25") | 23.5 (.92") | 93.5 (3.68") | 6.5 (.25") |
| 260211-XX | 144 (5.67") | 26 (1.02") | 39 (1.54") | 8.5 (.33") | 92 (3.62") | 13.5 (.53") | 8.5 (.33") | 26.5 (1.04") | 117 (4.61") | 8.5 (.33") |
| 260311-XX | 178 (7.01") | 28 (1.10") | 45 (1.77") | 9.5 (.37") | 122 (4.80") | 13.5 (.53") | 14 (.55") | 32 (1.26") | 150 (5.91") | 8.5 (.33") |

**Accent Caps**

**To select cap color, add the following suffix to the part number in place of –XX.**

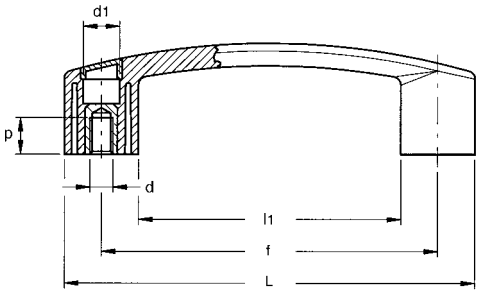
**C1 = Black** **C4 = Yellow**
**C2 = Orange** **C5 = Light Blue**
**C3 = Gray** **C6 = Red**

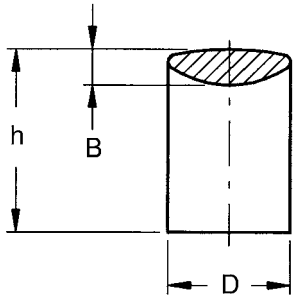
- **Brass inserts for rear mounting.**
- **Accent caps available in 6 colors.**

## REAR MOUNTING-BRIDGE STYLE

METRIC CENTERS

INCH HARDWARE






| REAR MOUNTING | DIMENSIONS | | | | | | MOUNTING DIMENSIONS | | |
|---|---|---|---|---|---|---|---|---|---|
| | L | D | h | B | l1 | d1 | f | INSERT | p |
| 90260121-XX | 116 (4.57") | 22 (.87") | 35 (1.38") | 7.5 (.30") | 72 (2.83") | 10.5 (.41") | 93.5 (3.68") | 1/4-20 | 12 (.47") |
| 90260221-XX | 144 (5.67") | 26 (1.02") | 39 (1.54") | 8.5 (.33") | 92 (3.62") | 13.5 (.53") | 117 (4.61") | 5/16-18 | 13 (.51") |
| 90260321-XX | 178 (7.01") | 28 (1.10") | 45 (1.77") | 9.5 (.37") | 122 (4.80") | 13.5 (.53") | 150 (5.91") | 5/16-18 | 13 (.51") |

**Accent Caps**

**To select cap color, add the following suffix to the part number in place of –XX.**

**C1 = Black** **C4 = Yellow**
**C2 = Orange** **C5 = Light Blue**
**C3 = Gray** **C6 = Red**

**Material: (both models)**
**Glass reinforced technopolymer**

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

## SMALL SIZE

- Front or rear mounting options.
- Snap-on cover conceals mounting hardware.
- Can be customized with customer logo.

NON-CORROSIVE

INCH CENTERS

DUAL HARDWARE



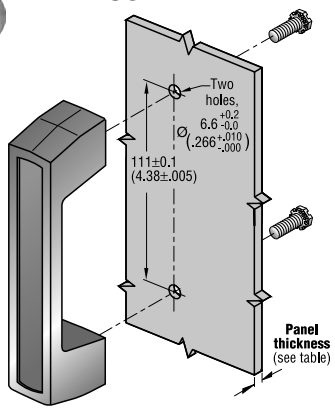
| PART NUMBERS | | MAX. material thickness (rear mount only) |
|---|---|---|
| Rear Mount | Front Mount | |
| B8-45-3 | B8-43-3 | 16.0 (.63") |

**Material: ABS, plastic black**

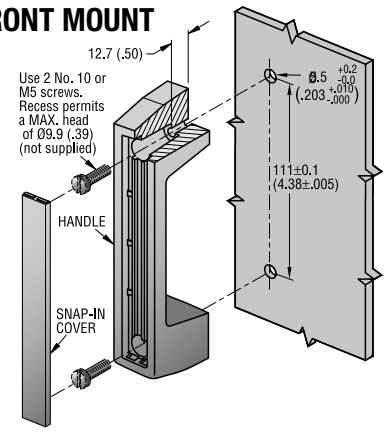
**Note: Front mount - No hardware supplied**
**Rear mount - Hardware is supplied**

### INSTALLATION

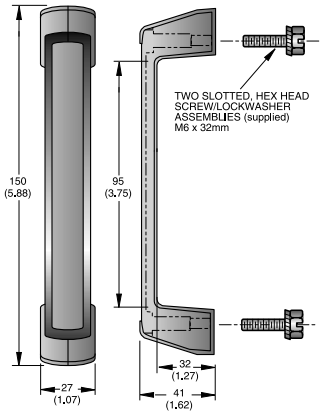
#### REAR MOUNT




#### FRONT MOUNT




#### REAR MOUNT (illustrated)




## LARGE SIZE

- Ergonomic look and feel.

NON-CORROSIVE

INCH CENTERS

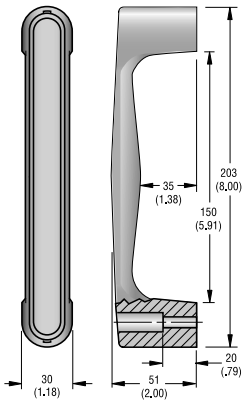
DUAL HARDWARE



| PART NUMBERS | | (Rear Mount Only) |
|---|---|---|
| Front Mount | Rear Mount | |
| B8-63-3 | B8-66-3 | 19 (.75) |

**Material: ABS, plastic black**

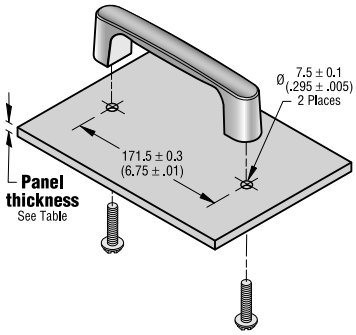
**Note: Front mount - No hardware supplied**
**Rear mount - Hardware is supplied**




### INSTALLATION

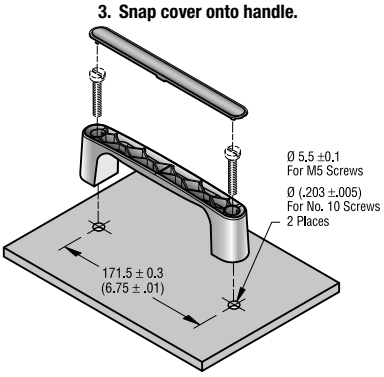
#### REAR MOUNT

1. Prepare clearance holes as shown.
2. Mount handle using two thread forming screws, supplied.




#### FRONT MOUNT

1. Prepare holes as shown.
2. Mount handle using M5 or No. 10 screws (not supplied), having maximum head size of Ø 10.5 (.41).
3. Snap cover onto handle.




**Customize with your logo - call**

www.southco.com

- **Standard safety and design colors available.**
- **Wide variety of sizes.**
- **UL 94 V-0 rating available.**
- **Impact resistant formulation available.**
- **Resistant to solvents, oils, grease and other chemical agents.**

## FRONT MOUNTING GRAB HANDLE WITH HARDWARE POCKET



NON-CORROSIVE

METRIC CENTERS

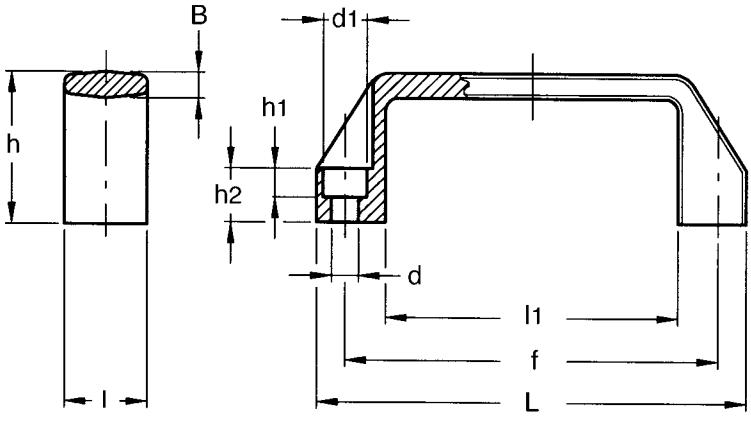
| PART NUMBER | | | | DIMENSIONS | | | | | | | | MOUNTING | | Product Features |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Black | Orange | Red | Gray | L | h | B | l | l1 | d1 | h1 | h2 | f | d | |
| 37031 | ---- | ---- | ---- | 107 (4.21") | 36 (1.42") | 6 (.24") | 21 (.83") | 74 (2.91") | 10.5 (.41") | 7 (.28") | 13 (.51") | 93.5 (3.68") | 6.5 (.25") | ---- |
| 37001 | 37002 | ---- | 37004 | | | | | | | | | | | high impact |
| 150001 | ---- | ---- | ---- | | | | | | | | | | | UL 94 V-0 |
| 37131 | ---- | ---- | ---- | 134 (5.28") | 41 (1.61") | 7 (.28") | 26 (1.02") | 95 (3.74") | 13.5 (.53") | 8.5 (.33") | 15 (.59") | 117 (4.61") | 8.5 (.33") | ---- |
| 37101 | 37102 | 37105 | 37104 | | | | | | | | | | | high impact |
| 150011 | ---- | ---- | ---- | | | | | | | | | | | UL 94 V-0 |
| 37181 | ---- | ---- | ---- | 150 (5.90") | 45 (1.77") | 7 (.28") | 27 (1.06") | 108 (4.25") | 13.5 (.53") | 8.5 (.33") | 16 (.63") | 132 (5.20") | 8.5 (.33") | ---- |
| 37151 | 37152 | ---- | 37154 | | | | | | | | | | | high impact |
| 150021 | ---- | ---- | ---- | | | | | | | | | | | UL 94 V-0 |
| 37231 | ---- | ---- | ---- | 197 (7.76") | 50 (1.97") | 8 (.31") | 28 (1.10") | 153 (6.02") | 13.5 (.53") | 8.5 (.33") | 17 (.67") | 179 (7.05") | 8.5 (.33") | ---- |
| 37201 | 37202 | 37205 | 37204 | | | | | | | | | | | high impact |
| 150031 | ---- | ---- | ---- | | | | | | | | | | | UL 94 V-0 |
| 37281 | ---- | ---- | ---- | 262 (10.31") | 54 (2.13") | 9 (.35") | 31 (1.22") | 202 (7.95") | 16.5 (.65") | 10.5 (.41") | 20 (.79") | 235 (9.25") | 10.5 (.41") | ---- |
| 37251 | 37252 | ---- | 37254 | | | | | | | | | | | high impact |

For detailed material specifications and product strength guidelines.

**www.clancey.com**

Try this part in your application Please call for samples.

**800-747-7405**




**Material: Glass reinforced technopolymer (various formulations)**

# HANDLES
## CHEST STYLE HANDLES

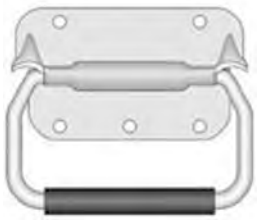
## EXPOSED CHEST HANDLES

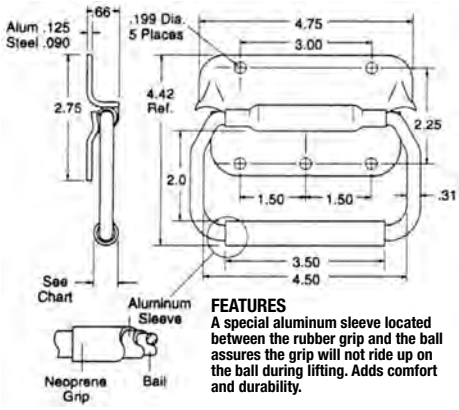
- **90° stop feature.**
- **Spring return of handle.**
- **Neoprene rubber grips.**

### ROBUST SERIES

STAINLESS AVAILABLE

- **Rugged design.**
- **Configurations to meet Mil-Specs (Please call).**





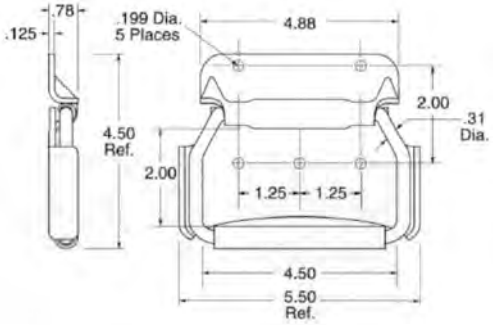

**FEATURES**
**A special aluminum sleeve located between the rubber grip and the ball assures the grip will not ride up on the ball during lifting. Adds comfort and durability.**

| PART NUMBER | Mounting Plate | | Bail Handle | | Grip Dia. | Aluminum Sleeve Feature | Mounting Holes |
|---|---|---|---|---|---|---|---|
| | Material | Finish | Material | Finish | | | |
| H945-AL2-RG | Aluminum | none | Aluminum | none | .56" | yes | yes |
| H945-LS2-RGZE | | | Steel | zinc plate | | | yes |
| H945-SS2-RG | | | Stainless | none | | | yes |
| 945-SS2-RG | | | Stainless | none | | | no |
| H945-LS2-RG75ZE | | | Steel | zinc plate | .75" | no | yes |
| H945-SS2-RGSS | Stainless | none | Stainless | none | .56" | yes | yes |
| H946-LS2-RG75ZE | Steel | Zinc plate | Steel | zinc plate | .75" | no | yes |

### GUARDED HANDLE

- **Side guards prevent impact damage to handle.**
- **Configurations to meet Mil-Specs (Please call).**





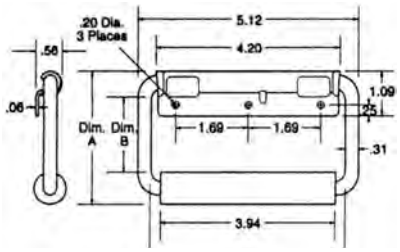

| PART NUMBER | Mounting Plate | | Bail Handle | | Grip Dia. | Mounting Holes |
|---|---|---|---|---|---|---|
| | Material | Finish | Material | Finish | | |
| HA945-GLS2-RG75ZE | Aluminum 3003 H14 | none | Steel | zinc plate | .75" | yes |

### STANDARD SERIES

STAINLESS AVAILABLE

- **Smaller mounting plate to reduce handle "foot print".**
- **Economical choice.**





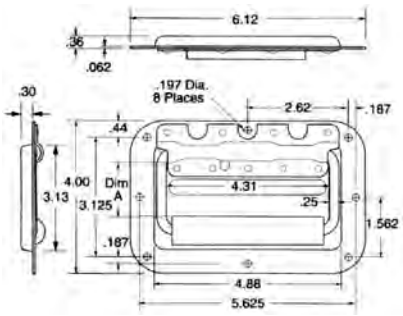

| PART NUMBER | Material | Finish | Grip Dia. | Dim. "A" | Dim. "B" |
|---|---|---|---|---|---|
| 500-32-M15-ZB | Steel | Zinc Plate | .53" | 2.97" | 1.81" |
| 500-56-M15-ZB | | | .75" | 3.09" | 1.70" |
| 500-32-M20-QQ | Steel | Black Epoxy | .53" | 2.97" | 1.81" |
| 500-56-M20-QQ | | | .75" | 3.09" | 1.70" |
| 500-32-M21-SP | Stainless Steel | Passivated | .53" | 2.97" | 1.81" |
| 500-56-M21-SP | | | .75" | 3.09 " | 1.70" |

**Special finishes and configurations are available, please call.**

**800-747-7405**

- 90° stop spring return.
- Standard of the case industry.
- Variety of sizes and finishes.
- Comfortable neoprene rubber grips.

## RECESSED CHEST HANDLES



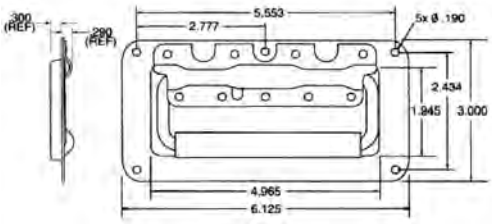

**MOUNTING OPENING**
**3.10" x 5.20" rectangle.**



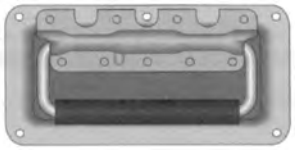
### STANDARD SERIES

- Compact, flush mount.
- Available in deeper dish model – please call.

| PART NUMBER | Mounting Dish | | Bail Handle | | Dim. "A" | Grip Dia. |
|---|---|---|---|---|---|---|
| | Material | Finish | Material | Finish | | |
| 502-48-M15-ZB | Steel | Zinc plate | Steel | Zinc plate | 1.81" | .53" |
| 502-49-M15-ZB | | | | | 1.69" | .75" |
| 502-48-M15-QQ | Steel | Black Epoxy | Steel | Black Epoxy | 1.81" | .53" |
| 502-49-M15-QQ | | | | | 1.69" | .75" |



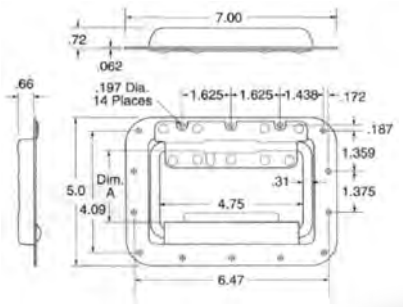

**MOUNTING OPENING**
**2.20" x 5.00" rectangle.**



### LOW – PROFILE

- Excellent for lids and rack mounted case applications.

| PART NUMBER | Mounting Dish | | Bail Handle | |
|---|---|---|---|---|
| | Material | Finish | Material | Finish |
| 502-200-M15-ZN | Steel | Zinc plate | Steel | Zinc plate |




**MOUNTING OPENING**
**3.90" x 5.75" rectangle.**



### LARGE SERIES

- More generous opening for easy grip.

| PART NUMBER | Mounting Dish | | Bail Handle | | Dim. "A" | Grip Dia. |
|---|---|---|---|---|---|---|
| | Material | Finish | Material | Finish | | |
| 503-41-M15-ZB | Steel | Zinc plate | Steel | Zinc plate | 2.44" | .53" |
| 503-43-M15-ZB | | | | | 2.31" | .75" |
| 503-41-M15-QQ | Steel | Black Epoxy | Steel | Black Epoxy | 2.44" | .53" |
| 503-43-M15-QQ | | | | | 2.31" | .75" |

**Special finishes and configurations are available, please call.**

**800-747-7405**

# KNOBS
## ORDERING INSTRUCTIONS

Industrial Knobs are classified by function:

- Clamping
- Shaft End
- Control Knobs ( see feature on the bottom of page 235)
- Pulls (see our "Handles" section)

Clancey specializes in two of these four functional areas: clamping knobs and shaft terminations. These function codes will be included in your part number, and are found at the top of each page.

| Clamping Knobs | | Shaft End Knobs | |
|---|---|---|---|
| • Bar knobs | = KCB | • Ball style | = KSB |
| • Lobe Knobs | = KCL | • Tapered shaft handle | = KST |
| • Knurled knobs | = KCK | | |
| • Adjustable Levers | = KCA | | |

### To order knobs from Clancey use the following steps:

1) Select the series part number. **Location:** In the center of the photo chart

_ _ _ _ - Four digits or letters. Series selection determines the size of the part you are ordering.

2) Select your mounting configuration preference. **Location:** Available configurations are beneath the chart (right side)

| | | |
|---|---|---|
| Threaded Insert | = I | Materials: Brass (primary), steel zinc plate, or stainless steel |
| Molded Insert | = M | Materials: Same material as the knob - Machined inserts for metal knobs. |
| Projecting Stud | = P | Materials: Steel, zinc plate (primary), or stainless steel |
| Thru Hole - insert | = T | Materials: Brass (primary), steel nut with nylon locking patch, or stainless steel |
| Thru Shaft | = S | Materials: Same material as the knob. Shaft diameter thru knob center. |
| Drive Fit | = D | Materials: Same material as the knob |

3) Select your thread size. **Location:** Available thread sizes are found in the photo chart (right side)

For ***Inch*** thread sizes:

- 6-32 = 06
- 8-32 = 08
- 10-32 = 10
- 1/4-20 = 25
- 5/16-18 = 31
- 3/8-16 = 37
- 1/2-13 = 50
- 5/8-11 = 63

For ***Metric*** thread sizes:

- M4 = M4
- M5 = M5
- M6 = M6
- M8 = M8
- M10 = M0
- M12 = M2

4) Select the length of your projecting stud length.

- For projecting stud models only. Not all lengths are available.
- Depth of insert or drive hole is a function of the size of the knob and the tooling.
- Please call for specific details on any dimension.

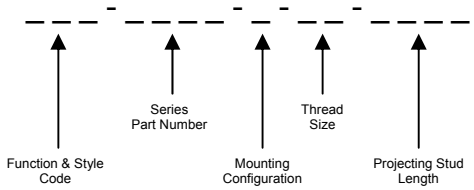
For ***Inch*** thread sizes: (in inches, three decimals)

- _ _ _ _ Examples: 3/8" = 0375; 1 3/4" = 1750

For ***Metric*** thread sizes: (in millimeters, no decimals)

- _ _ _ _ Examples: 60mm = 0060; 125mm = 0125

5) Input your selections to complete your part number.




**KCB-3092-P-25-1000** (Example - Projecting Stud)
Clamping function - Bar Knob
1) 3092 series = 2.50" diameter standard bar knob
2) Projecting stud (**Note:** Will be steel zinc plate, unless otherwise specified.)
3) 1/4-20 thread size
4) 1.00" stud projection

**KSB-0140-I-31** (Example - Threaded Insert)
Shaft end function - Ball Knob
1) 0140 series = 1.25" diameter deluxe ball knob
2) Threaded insert (**Note:** Will be brass, unless otherwise specified.)
3) 5/16-18 thread size

Part Number = **KCB - _ _ _ _ - _ - _ _ - _ _ _ _**

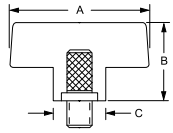
See complete instructions on page 242

Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

## Standard Bar Knob

Material: Thermoplastic
Finish: Textured, black





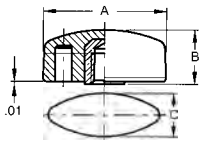

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M5 (M5) | M6 (M6) | M8 (M8) | M10 (M10) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **3091** | 1.50" | .75" | .75" | X | X | X | X | | | | | |
| **3089** | 2.00" | 1.13" | .75" | | X | X | X | | X | X | X | X |
| **3088** | 2.50" | 1.13" | .75" | | X | X | X | | | X | X | X |
| **3094** | 3.50" | 1.13" | .94" | | X | X | X | X | | X | X | X |

- Thru hole style (pictured), projecting stud (illustrated)
- Phenolic version available in 3088 and 3089 series
- Configured with threaded inserts (I), projecting stud (P), or thru-hole (T)
- Through hole parts available with nylon patch locking nut

## Elliptical Bar Knob

Material: Thermoplastic
Finish: Textured, black





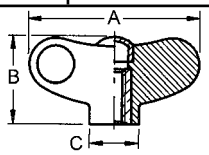

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | M5 (M5) | M6 (M6) | M8 (M8) | M10 (M10) |
|---|---|---|---|---|---|---|---|---|---|---|
| **E302** | 1.02" | .51" | .43" | X | | | X | | | |
| **E351** | 1.26" | .59" | .51" | | X | | | X | X | |
| **E452** | 1.57" | .67" | .61" | | | X | | | X | X |

- Projecting stud (pictured), threaded insert (illustrated)
- Ergonomic look and feel
- Configured with threaded inserts (I), projecting stud (P), or thru-hole (T)
- Metric threads available
- Elesa original design

## Ergostyle® Wing Knob

Material: Thermoplastic
Finish: Textured, black





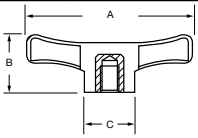

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | M6 (M6) | M8 (M8) | M10 (M10) |
|---|---|---|---|---|---|---|---|---|---|
| **E211** | 1.85" | .94" | .53" | X | | | X | | |
| **E236** | 2.17" | 1.10" | .63" | X | X | | X | X | |
| **E241** | 2.76" | 1.42" | .79" | | | X | | | X |

- Ergonomic look and feel
- Center cap available in colors: black (standard), orange, gray, yellow, light blue, red
- Configured with threaded inserts (I) or projecting stud (P)
- ® Elesa. Elesa original design

## Hurricane Knobs

Material: Thermoplastic
Finish: Textured, black






| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 8-32 (08) | 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) |
|---|---|---|---|---|---|---|---|---|---|
| **3084** | 1.25" | .83" | .63" | | | X | X | X | |
| **2020** | 1.38" | 1.03" | .59" | X | X | X | X | X | |
| **2031** | 2.50" | 1.00" | .75" | X | X | X | X | X | X |

- Projecting stud (pictured), threaded insert (illustrated)
- Ergonomic look and feel - compact design
- Configured with threaded inserts (I), projecting stud (P), or thru-hole (T)
- Through hole parts available with nylon patch locking nut
- This series differs in appearance between sizes, please call for samples





All dimensions are for reference only.
Please call for samples and/or a technical drawing.

# KNOBS
## CLAMPING - LOBE STYLE

Part Number = **KCL - _ _ _ _ - _ - _ _ - _ _ _ _**

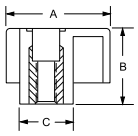
See complete instructions on page 242

Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

### Three Arm Heat Resistant

Material: Phenolic
Finish: Gloss Black



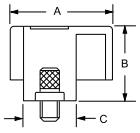

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 8-32 (08) | 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) |
|---|---|---|---|---|---|---|---|---|---|
| **3022** | .88" | .75" | .50" | X | X | X | | | |
| **3025** | 1.13" | .75" | .50" | X | X | X | | | |
| **3035** | 1.50" | .88" | .63" | | X | X | X | X | |
| **3040** | 2.00" | 1.00" | .75" | | | X | X | X | X |

- Projecting stud (pictured), thru hole (illustrated)
- Excellent in high temperatures
- Configured with threaded inserts (I), projecting stud (P), or thru hole (T)
- No undercuts - clean

### Three Arm Impact Resistant

Material: Thermoplastic
Finish: Textured





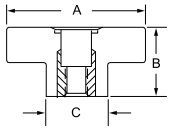

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | M5 (M5) | M6 (M6) | M8 (M8) | M10 (M10) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **3036** | 1.50" | .88" | .63" | X | X | X | | | | | |
| **3041** | 2.00" | 1.00" | .75" | X | X | X | X | X | X | X | X |
| **3045** | 2.50" | 1.25" | .81" | X | X | X | X | X | X | X | X |

- Threaded insert (pictured), projecting stud (illust.)
- Economical solution
- Configured with threaded inserts (I), projecting stud (P), or thru hole (T)
- Excellent in application where knob may see impact

### Four Arm Heat Resistant

Material: Phenolic
Finish: Gloss Black



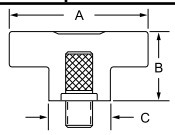

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 8-32 (08) | 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) |
|---|---|---|---|---|---|---|---|---|---|
| **2800** | 1.00" | .75" | .44" | X | X | X | | | |
| **2820** | 1.50" | 1.00" | .63" | | X | X | X | X | |
| **2830** | 2.00" | 1.00" | .88" | | | X | X | X | X |
| **2840** | 3.00" | 1.13" | .88" | | | X | X | X | X |

- Projecting stud (pictured), thru hole (illustrated)
- Excellent in high temperatures
- Configured with threaded inserts (I), projecting stud (P), or thru hole (T)
- No undercuts - clean

### Four Arm Impact Resistant

Material: Thermoplastic
Finish: Textured





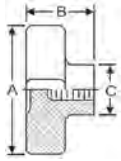

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M5 (M5) | M6 (M6) | M8 (M8) | M10 (M10) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2810** | 1.25" | .88" | .50" | X | X | X | | | | | | |
| **2825** | 1.75" | 1.00" | .75" | X | X | X | X | | X | X | X | X |
| **2837** | 2.25" | 1.00" | 1.00" | | X | X | X | X | | | | |
| **2500** | 2.50" | 1.13" | 1.00" | | X | X | X | X | X | X | X | X |

- Threaded insert (pictured), projecting stud (illust.)
- Economical solution
- Configured with threaded inserts (I), projecting stud (P), or thru hole (T)
- Excellent in application where knob may see impact

### Four Arm Metal

Material: Aluminum
Finish: Anodized






| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | 5/8-11 (63) | M6 (M6) | M8 (M8) | M10 (M10) | M12 (M2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MA10** | 1.00" | .88" | .63" | X | | | | | X | | | |
| **MA15** | 1.50" | .88" | .83" | | X | | | | | X | | |
| **MA20** | 2.00" | 1.00" | 1.00" | | X | X | | | | X | X | |
| **MA25** | 2.50" | 1.13" | 1.00" | | | X | X | | | X | X | X |
| **MA30** | 3.00" | 1.25" | 1.25" | | | X | X | X | | | X | X |

- Steel Stud pinned to knob head
- Virtually any configuration is available
- Configured with threaded inserts (I), projecting stud (P), or thru hole (T)
- Excellent in application where knob may see heavy impact

**Projected stud (pictured) Threaded insert (illust.)**

All dimensions are for reference only.
Please call for samples and/or a technical drawing.

## Part Number = KCL - _ _ _ _ - _ - _ _ - _ _ _ _

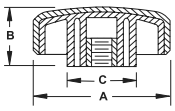
See complete instructions on page 242

Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

### Soft Surface Four Lobe

Material: Elastomer overmold
Finish: Matte Black





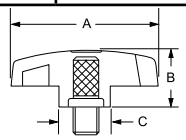

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M5 (M5) | M6 (M6) | M8 (M8) | M10 (M0) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **70J1** | 1.40” | .68” | .56” | X | X | | | | X | X | | |
| **70J2** | 1.75” | .75” | .68” | X | X | X | X | | X | X | X | X |
| **70J3** | 1.99” | .86” | .91” | X | X | X | X | X | X | X | X | X |
| **7001** | 2.50” | 1.09” | 1.25” | | X | X | X | X | | | | |
| **7003** | 3.00” | 1.31” | 1.50” | | X | X | X | X | | X | X | X |

- Projecting stud (pictured), threaded insert (illustrated)
- Ergonomic design and soft feel
- Configured with threaded inserts (I), or projecting stud (P)

### Five Lobe “Star” knob

Material: Thermoplastic
Finish: Textured, black





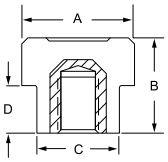

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M5 (M5) | M6 (M6) | M8 (M8) | M10 (M0) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **4052** | 1.33” | 1.15” | .85” | X | X | X | X | X | X | X | X | X |
| **4053** | 1.75” | 1.25” | .88” | X | X | X | X | X | X | X | X | X |
| **2980** | 2.25” | .72” | .84” | | X | X | X | X | X | X | X | X |
| **2990** | 3.50” | 1.13” | 1.38” | | X | X | X | | | | | |

- Thru hole (pictured), projecting stud (illustrated)
- Economical solution
- Configured with threaded inserts (I), projecting stud (P), or thru hole (T)
- Available in overmolded elastomer soft surface for volume applications

### Five Lobe “Husky” knob

Material: Phenolic
Finish: Gloss Black





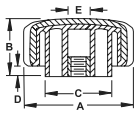

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 8-32 (08) | 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) |
|---|---|---|---|---|---|---|---|---|---|
| **2855** | .75” | .63” | .50” | X | X | X | | | |
| **2850** | 1.00” | .88” | .75” | | | X | X | X | |
| **2860** | 1.18” | .82” | .82” | | | X | X | X | |
| **2870** | 1.63” | .88” | 1.16” | | | X | X | X | X |
| **2890** | 2.50” | 1.50” | 1.25” | | | X | X | X | X |

- Threaded insert (pictured and illustrated)
- Excellent in high temperatures
- Configured with threaded inserts (I) or projecting stud (P)
- No undercuts - clean

### Soft Surface Five Lobe

Material: Elastomer overmold
Finish: Matte Black





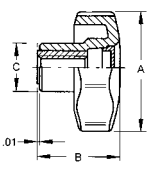

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M5 (M5) | M6 (M6) | M8 (M8) | M10 (M0) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **7040** | 1.52” | 1.09” | .69” | X | X | X | X | | X | X | X | X |
| **7050** | 1.91” | 1.09” | .93” | X | X | X | X | X | X | X | X | X |
| **7060** | 2.26” | 1.09” | 1.25” | | X | X | X | X | X | X | X | X |

- Projecting stud (pictured), threaded insert (illustrated)
- Ergonomic design and soft feel
- Configured with threaded inserts (I), projecting stud (P), or thru hole (T)
- Custom colors and pad printed labeling available for volume applications

### Ergonomic Five Lobe

Material: Thermoplastic
Finish: Textured






| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M5 (M5) | M6 (M6) | M8 (M8) | M10 (M10) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **E803** | .98” | .75” | .51” | X | | | | | X | X | | |
| **E844** | 1.26” | .91” | .59” | | X | | | | | X | X | |
| **E893** | 1.57” | 1.06” | .67” | | X | X | | | | | X | |
| **E953** | 1.97” | 1.26” | .75” | | | X | X | | | | X | X |
| **E013** | 2.48” | 1.46” | .87” | | | | X | X | | | | X |

- Threaded insert (pictured and illustrated)
- Center cap available in colors: black (standard), orange, gray, yellow, light blue, red
- Configured with threaded inserts (I), projecting stud (P), or thru hole (T)
- ® Elesa original design





All dimensions are for reference only.
Please call for samples and/or a technical drawing.

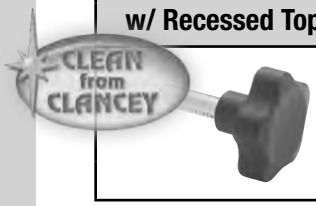
# KNOBS
## CLAMPING - LOBE STYLE

Part Number = **KCL - _ _ _ _ - _ - _ _ - _ _ _ _**

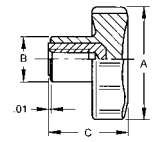
See complete instructions on page 242

Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

### Five Lobe w/ Recessed Top



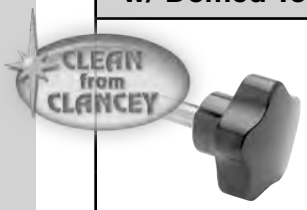

Material: Thermoplastic
Finish: Matte Black



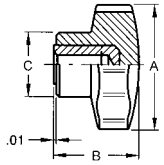

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M5 (M5) | M6 (M6) | M8 (M8) | M10 (M0) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **E422** | 1.26" | .89" | .55" | X | X | | | | X | X | | |
| **E432** | 1.57" | 1.02" | .59" | | X | X | | | | X | X | |
| **E442** | 1.97" | 1.22" | .70" | | | X | X | | | | X | X |
| **E452** | 2.36" | 1.45" | .83" | | | | | X | | | | X |

- Projecting stud (pictured), threaded insert (illustrated)
- Ergonomic feel and attractive design
- Configured with threaded inserts (I), or projecting stud (P)
- No undercuts - clean
- ® Elesa original design

### Five Lobe w/ Domed Top




Material: Duroplast (Phenolic)
Finish: Gloss Black



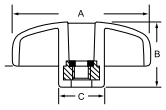

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | 5/8-11 (63) | M6 (M6) | M8 (M8) | M10 (M0) | M12 (M2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **E032** | 1.26" | .91" | .75" | X | | | | | X | | | |
| **E062** | 1.57" | 1.06" | .83" | X | X | | | | X | X | | |
| **E092** | 1.97" | 1.30" | .98" | | X | X | | | | X | X | |
| **E122** | 2.36" | 1.45" | 1.06" | | | X | X | | | | X | X |
| **E154** | 2.75" | 1.73" | 1.18" | | | | X | | | | | |
| **E182** | 3.34" | 2.16" | 1.37" | | | | | X | | | | |

- Projecting stud (pictured), threaded insert (illustrated)
- Clean domed top with standard stainless threads
- Configured with threaded inserts (I), or projecting stud (P)
- No undercuts - clean
- ® Elesa original design

### Fluted



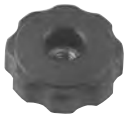
Material: Thermoplastic
Finish: Matte Black



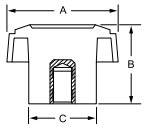

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 8-32 (08) | 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) |
|---|---|---|---|---|---|---|---|---|---|
| **4322** | 1.25" | .81" | .50" | X | X | X | X | | |
| **4312** | 1.75" | 1.00" | .69" | X | X | X | X | X | |
| **4302** | 2.50" | 1.16" | .81" | X | X | X | X | X | X |

- Threaded insert (pictured), thru hole (illustrated)
- Economical choice
- Configured with threaded inserts (I), projecting stud (P) or thru hole (T)

### Octagonal



Material: Thermoplastic
Finish: Textured, black



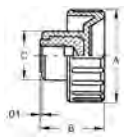

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) |
|---|---|---|---|---|---|---|---|---|
| **4200** | 1.38" | .88" | .69" | X | X | X | X | |
| **4210** | 1.75" | 1.28" | 1.06" | X | X | X | X | |
| **4230** | 2.38" | 1.34" | 1.25" | | X | X | X | X |
| **4340** | 3.25" | 1.91" | 2.00" | | X | X | X | X |

- Thru hole (pictured), threaded insert (illustrated)
- Economical choice
- Configured with threaded inserts (I), projecting stud (P) or thru hole (T)
- Optional decorative inlay available for graphics or instructions for volume applications

### Fluted Grip




Material: Thermoplastic
Finish: Textured




| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 8-32 (08) | 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | M4 (M4) | M5 (M5) | M6 (M6) | M8 (M8) | M10 (M0) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **E321** | .79" | .63" | .47" | X | X | | | X | X | | | |
| **E521** | .79" | .63" | .47" | X | X | | | X | X | | | |
| **E623** | .98" | .75" | .63" | | X | X | | | X | X | | |
| **E725** | 1.26" | .87" | .67" | | | X | X | | | | X | X |

- Threaded insert (pictured and illustrated)
- Standard stainless steel threads available
- Configured with threaded inserts (I), projecting stud (P), or thru hole (T)
- No undercuts - clean
- ® Elesa original design





All dimensions are for reference only.
Please call for samples and/or a technical drawing.

# Part Number = KCK - _ _ _ _ - _ - _ _ - _ _ _ _

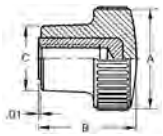
See complete instructions on page 234

Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

## Knurled Grip

Material: Phenolic
Finish: Gloss Black





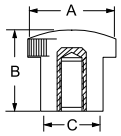

| Series Part Number | Primary Dimensions A | B | C | Thread Sizes (code #) M5 (M5) | M6 (M6) | M8 (M8) | M10 (M0) |
|---|---|---|---|---|---|---|---|
| E001 | .83" | .98" | .51" | X | X | | |
| E111 | 1.02" | 1.10" | .63" | | X | X | |
| E201 | 1.22" | 1.26" | .75" | | X | X | X |

- Projecting stud (pictured), threaded insert (illustrated)
- Compact size with positive grip
- Configured with threaded inserts (I), or projecting stud (P)
- No undercuts - clean
- Elesa original design

## Miniature Domed Knurled

Material: Phenolic
Finish: Gloss Black





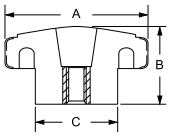

| Series Part Number | Primary Dimensions A | B | C | Thread Sizes (code #) 8-32 (08) | 10-32 (10) |
|---|---|---|---|---|---|
| 2720 | .63" | .56" | .44" | X | X |
| 2710 | .75" | .50" | .50" | X | X |
| 2730 | .82" | .53" | .44" | | X |

- Projecting stud (pictured), threaded insert (illustrated)
- Clean domed top
- Configured with threaded inserts (I), or projecting stud (P)
- No undercuts - clean

## Standard Domed Knurled

Material: Thermoplastic
Finish: Textured, Black





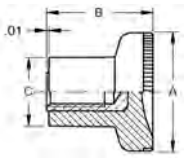

| Series Part Number | Primary Dimensions A | B | C | Thread Sizes (code #) 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) |
|---|---|---|---|---|---|---|
| 2750 | 1.00" | .81" | .63" | X | X | X |
| 2770 | 1.38" | .81" | .75" | X | X | X |
| 2790 | 1.88" | 1.00" | 1.00" | X | X | X |

- Threaded insert (pictured), thru hole (illustrated)
- Economical choice
- Configured with threaded inserts (I), projecting stud (P) or thru hole (T)

## Ergostyle® Knurled

Material: Thermoplastic
Finish: Matte Black





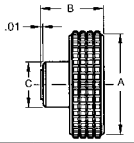

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 8-32 (08) | 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | M4 (M4) | M5 (M5) | M6 (M6) | M8 (M8) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| E081 | .63" | .51" | .33" | X | | | | X | | | |
| E091 | .71" | .61" | .41" | X | | | | X | | | |
| E121 | .83" | .71" | .49" | | X | | | | X | | |
| E212 | .98" | .89" | .57" | | | X | | | | X | |
| E311 | 1.22" | 1.06" | .73" | | | | X | | | | X |

- Projecting stud (pictured), threaded insert (illustrated)
- Ergonomic feel
- Configured with threaded inserts (I), or projecting stud (P)
- No undercuts - clean
- ® Elesa - Elesa original design

## Diamond Knurled

Material: Thermoplastic
Finish: Textured, Black






| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M6 (M6) | M8 (M8) | M10 (M0) |
|---|---|---|---|---|---|---|---|---|---|---|
| E206 | 1.22" | .87" | .59" | X | | | | X | | |
| E322 | 1.57" | .94" | .67" | X | X | | | X | X | |
| E421 | 1.97" | 1.18" | .79" | | X | X | | | X | |
| E511 | 2.36" | 1.38" | .91" | | | X | X | | | X |

- Threaded insert (pictured and illustrated)
- Great looks, and tremendous "feel"
- Configured with threaded inserts (I), or projecting stud (P)
- Soft Surface available - please call
- Elesa original design





All dimensions are for reference only.
Please call for samples and/or a technical drawing.

# KNOBS
## CLAMPING - ADJUSTABLE LEVERS

Part Number = **KCA - _ _ _ _ - _ - _ _ - _ _ _ _**

See complete instructions on page 242

Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

### Ergostyle® w/ steel fittings

Handle: Glass Reinforced Technopolymer, matte black





| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M5 (M5) | M6 (M6) | M8 (M8) | M10 (M0) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EG44** | 1.73" | 1.42" | .47" | X | X | | | | X | X | | |
| **EG63** | 2.48" | 1.85" | .59" | | X | X | | | | X | X | |
| **EG78** | 3.07" | 2.28" | .75" | | | | X | X | | | | X |
| **EG95** | 3.74" | 2.72" | .85" | | | | X | X | | | | X |

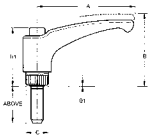
- Projecting stud (pictured), threaded insert (illustrated)
- Center cap available in colors: black (standard), orange, gray, yellow, light blue, red
- Configured with threaded inserts (I), or projecting stud (P)
- ® Elesa - Elesa original design

### Ergostyle® w/ stainless fittings

Handle: Glass Reinforced Technopolymer, matte black

STAINLESS





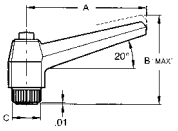
| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M5 (M5) | M6 (M6) | M8 (M8) | M10 (M0) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ES44** | 1.73" | 1.42" | .47" | X | X | | | | X | X | | |
| **ES63** | 2.48" | 1.85" | .59" | | X | X | | | | X | X | |
| **ES78** | 3.07" | 2.28" | .75" | | | | X | X | | | | X |
| **ES95** | 3.74" | 2.72" | .85" | | | | X | X | | | | X |

- Threaded insert (pictured), projecting stud (illustrated)
- Center cap available in colors: black (standard), orange, gray, yellow, light blue, red
- Configured with threaded inserts (I), or projecting stud (P)
- ® Elesa - Elesa original design

### Push Button w/ steel fittings

Handle: Glass Reinforced Technopolymer, matte black





| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M6 (M6) | M8 (M8) | M10 (M0) | M12 (M2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EP42** | 1.65" | 1.40" | .47" | X | X | | | | X | | | |
| **EP63** | 2.48" | 1.83" | .59" | | X | X | | | | X | | |
| **EP80** | 3.15" | 2.30" | .75" | | | X | X | | | | X | X |
| **EP10** | 3.94" | 2.74" | .98" | | | | X | X | | | X | X |

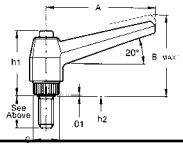
- Projecting stud (pictured), threaded insert (illustrated)
- Configured with threaded inserts (I), or projecting stud (P)
- Elesa original design

### Push Button w/ stainless fittings

Handle: Glass Reinforced Technopolymer, matte black

STAINLESS





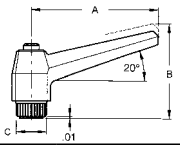
| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M6 (M6) | M8 (M8) | M10 (M0) | M12 (M2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ES42** | 1.65" | 1.40" | .47" | | X | | | | X | | | |
| **ES63** | 2.48" | 1.83" | .59" | | | X | | | | X | | |
| **ES80** | 3.15" | 2.30" | .75" | | | | X | | | | X | X |
| **ES10** | 3.94" | 2.74" | .98" | | | | X | X | | | X | X |

- Threaded insert (pictured), projecting stud (illustrated)
- Configured with threaded inserts (I), or projecting stud (P)
- Elesa original design

### Hex Adjustment w/ steel fittings

Handle: Glass Reinforced Technopolymer, matte black





| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | 5/8-11 (63) |
|---|---|---|---|---|---|---|---|---|
| **EH42** | 1.65" | 1.40" | .47" | X | | | | |
| **EH63** | 2.48" | 1.83" | .59" | X | X | | | |
| **EH80** | 3.15" | 2.30" | .75" | | | X | X | |
| **EH10** | 3.94" | 2.74" | .98" | | | | X | X |

- Threaded insert (pictured and illustrated)
- Fine adjustment with hex wrench
- Configured with threaded inserts (I)
- Elesa original design





clancey DESIGN DISTRIBUTOR

All dimensions are for reference only.
Please call for samples and/or a technical drawing.

## Part Number = KCA - _ _ _ _ - _ - _ _ - _ _ _ _

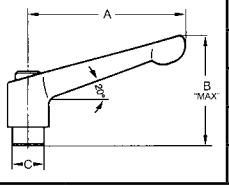
See complete instructions on page 242

Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

### Die Cast Handle w/ steel fittings

Handle: Die Cast zinc, shiny black powder coat





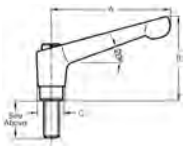

| Series Part Number | Primary Dimensions | | | Available Thread Sizes (code #) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M5 (M5) | M6 (M6) | M8 (M8) | M10 (M0) | M12 (M2) |
| **DC45** | 1.77" | 1.52" | .39" | X | X | | | | X | X | | | |
| **DC63** | 2.48" | 1.93" | .53" | | X | X | | | | X | X | | |
| **DC78** | 3.07" | 2.33" | .63" | | | X | X | | | | X | X | |
| **DC92** | 3.62" | 2.72" | .75" | | | | X | X | | | | X | X |
| **DC08** | 4.25" | 3.19" | .91" | | | | | X | | | | | X |

- Threaded insert (pictured & illustrated)
- Special colors (safety colors) available
- Configured with threaded inserts (I), or projecting stud (P)
- Blind Bores available, please call

### Die Cast Handle w/ stainless fittings

Handle: Die Cast zinc, shiny black powder coat





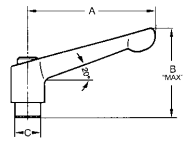
| Series Part Number | Primary Dimensions | | | Available Thread Sizes (code #) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M5 (M5) | M6 (M6) | M8 (M8) | M10 (M0) | M12 (M2) |
| **DS45** | 1.77" | 1.52" | .39" | X | X | | | | X | X | | | |
| **DS63** | 2.48" | 1.93" | .53" | | X | X | | | | X | X | | |
| **DS78** | 3.07" | 2.33" | .63" | | | X | X | | | | X | X | |
| **DS92** | 3.62" | 2.72" | .75" | | | | X | X | | | | X | X |

- Threaded insert (pictured), projecting stud (illustrated)
- Special colors (safety colors) available
- Configured with threaded inserts (I), or projecting stud (P)
- 303 stainless steel inserts and projecting studs

### Stainless Handle w/ stainless fittings

Handle: 304 Stainless Steel sand blasted satin finish





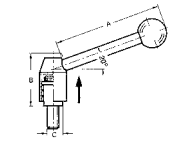

| Series Part Number | Primary Dimensions | | | Available Thread Sizes (code #) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M5 (M5) | M6 (M6) | M8 (M8) | M10 (M0) |
| **SS45** | 1.77" | 1.52" | .39" | X | X | | | | X | X | | |
| **SS63** | 2.48" | 1.93" | .53" | | | X | X | | | X | X | |
| **SS78** | 3.07" | 2.33" | .63" | | | | X | X | | | | X |

- Projecting stud (pictured), threaded insert (illustrated)
- Excellent for food or chemical equipment use
- Configured with threaded inserts (I), or projecting stud (P)
- 303 stainless steel inserts and projecting studs

### Heavy Duty Handle steel

Handle: Steel, black oxide w/ phenolic ball





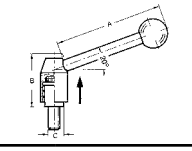
| Series Part Number | Primary Dimensions | | | Available Thread Sizes (code #) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | 5/8-11 (63) | M6 (M6) | M8 (M8) | M10 (M0) | M12 (M2) |
| **HD70** | 2.76" | 1.48" | .53" | X | X | | | | X | X | | |
| **HD96** | 3.78" | 1.75" | .63" | | X | X | | | | X | X | |
| **HD10** | 4.33" | 2.09" | .75" | | | X | X | | | | X | X |
| **HD24** | 4.88" | 2.39" | .91" | | | | X | X | | | | X |

- Threaded insert (pictured), projecting stud (illustrated)
- Configured with threaded inserts (I), or projecting stud (P)

### Heavy Duty Handle stainless steel

Handle: 304 Stainless Steel sand blasted satin finish, phenolic knob





| Series Part Number | Primary Dimensions | | | Available Thread Sizes (code #) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M6 (M6) | M8 (M8) | M10 (M0) | M12 (M2) |
| **HS70** | 2.76" | 1.48" | .53" | X | X | | | X | X | | |
| **HS96** | 3.78" | 1.75" | .63" | | X | X | | | X | X | |
| **HS10** | 4.33" | 2.09" | .75" | | | X | X | | | X | |

- Threaded insert (pictured), projecting stud (illustrated)
- Excellent for food or chemical equipment use
- Configured with threaded inserts (I), or projecting stud (P)
- 303 stainless steel inserts and projecting studs

All dimensions are for reference only.
Please call for samples and/or a technical drawing.

# KNOBS
## SHAFT END - BALL KNOBS

Part Number = **KSB - _ _ _ _ - _ - _ _ - _ _ _ _**

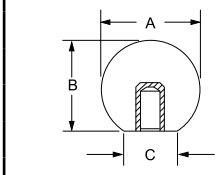
Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

See complete instructions on page 234

### Standard Ball

Material: Phenolic
Finish: Gloss Black



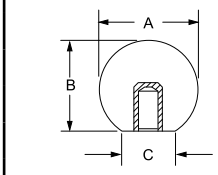

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 8-32 (08) | 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) |
|---|---|---|---|---|---|---|---|---|---|
| **4901** | .69" | .59" | .38" | X | X | X | | | |
| **0030** | 1.00" | .94" | .50" | | X | X | X | X | |
| **0025** | 1.25" | 1.25" | .53" | | | X | X | | |
| **0033** | 1.38" | 1.31" | .53" | | | X | X | X | |
| **0035** | 1.50" | 1.50" | .63" | | | X | X | X | |
| **0055** | 1.94" | 1.84" | .81" | | | | X | X | X |

- Excellent in high temperatures
- Styled parting line
- Configured with threaded inserts (I), or molded threads (M)
- Projecting studs (P) available in some models

### Deluxe Ball

Material: Phenolic
Finish: Gloss Black



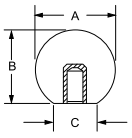

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | M6 (M6) | M8 (M8) | M10 (M0) | M12 (M2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **0130** | .78" | .73" | .38" | X | X | | | | | | | |
| **0135** | 1.00" | .91" | .58" | | X | X | X | | X | X | X | |
| **0140** | 1.25" | 1.19" | .58" | | | X | X | X | | | | |
| **0145** | 1.41" | 1.34" | .63" | | | X | X | X | | X | X | X |
| **0150** | 1.63" | 1.50" | .88" | | | | X | X | | | | |
| **0155** | 2.00" | 1.84" | 1.06" | | | | X | X | | | | X |

- Excellent in high temperatures
- No seam line, highly polished
- Configured with threaded inserts (I), or molded threads (M)

### Economy Ball

Material: Thermoplastic
Finish: Textured, black





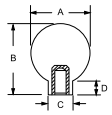

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) |
|---|---|---|---|---|---|---|---|---|
| **0014** | 1.25" | 1.19" | .63" | X | X | X | X | X |
| **0016** | 1.38" | 1.25" | .75" | | X | X | X | X |
| **0018** | 1.50" | 1.44" | .63" | | X | X | X | X |
| **0019** | 1.88" | 1.75" | .75" | | | X | X | X |

- Cost effective solution
- Textured finish hides finger prints
- Configured only with brass threaded inserts (I)
- Call for similar knob with soft surface finish

### Standard ball w/ stand-off

Material: Phenolic
Finish: Gloss Black



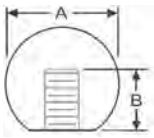

| Series Part Number | Primary Dimensions A | B | C | D | Available Thread Sizes (code #) 8-32 (08) | 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) |
|---|---|---|---|---|---|---|---|---|---|
| **490S** | .69" | .84" | .38" | .25" | X | X | | | |
| **025S** | 1.25" | 1.50" | .53" | .31" | | | X | X | X |
| **035S** | 1.50" | 1.81" | .63" | .50" | | | X | X | X |

- Stand-off allows easy pulling
- Styled parting line
- Configured with threaded inserts (I), or molded threads (M)
- Projecting studs (P) available in some models

### Metal Ball Knobs

Material: Steel or Stainless
Finish: Polished




| Series Part Number | Dimensions A | B | Available Thread Sizes (code #) 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | 5/8-11 (62) |
|---|---|---|---|---|---|---|---|---|
| **MB75** | .75" | .38" | X | | | | | |
| **MB00** | 1.00" | .50" | X | X | X | X | | |
| **MB38** | 1.38" | .63" | | | X | X | X | |
| **MB88** | 1.88" | .75" | | | | X | X | X |

- Brass and Aluminum also available
- Precision machined knob - excellent quality
- Available in machined threads (M) version only
- Threads are cut into the material - fine threads and metric threads are available





All dimensions are for reference only.
Please call for samples and/or a technical drawing.

CLEAN from CLANCEY

# Part Number = KST - _ _ _ _ - _ - _ _ - _ _ _ _

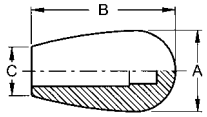
See complete instructions on page 242

Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

## Standard Teardrop

Material: Phenolic
Finish: Gloss Black





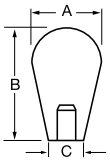

| Series Part Number | Primary Dimensions A | B | C | Available Thread Sizes (code #) 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | .25" Drive (D1) | .31" Drive (D2) | .38" Drive (D3) | .50" Drive (D5) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **E911** | .59" | .98" | .47" | X | | | | X | | | |
| **E921** | .79" | 1.22" | .55" | | X | | | | X | | |
| **0073** | 1.13" | 1.47" | .50" | X | X | X | | | | | |
| **E931** | 1.02" | 1.65" | .67" | | | X | | | | X | |
| **E941** | 1.30" | 2.13" | .79" | | | | X | | | | X |

- Drive fit (pictured & illustrated)
- Excellent in high temperatures
- Configured with threaded inserts (I), or drive fit (D)
- Styled parting line

## Tall Teardrop

Material: Phenolic
Finish: Gloss Black





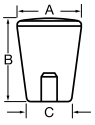

| Series Part Number | Primary Dimensions A | B | C | D | Available Thread Sizes (code #) 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | .44" Drive (D4) | .25" thru (T1) | .31" thru (T2) | .38" thru (T3) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **5041** | 1.00" | 1.63" | .50" | .50" | X | X | | | | | | |
| **0070** | 1.25" | 1.70" | .56" | .50" | X | | | | X | | | |
| **0071** | 1.19" | 1.80" | .56" | .50" | X | X | X | | | X | X | X |
| **0080** | 1.31" | 1.88" | .63" | .50" | X | X | X | | | | | |
| **0091** | 1.63" | 2.50" | .88" | .75" | X | X | X | X | | | X | X |

- Threaded insert (pictured and illustrated)
- Excellent in high temperatures
- Configured with threaded inserts (I), drive fit (D) or thru-hole (T)
- Series 0080 available with projecting stud (P)

## Small Tapered Handles

Material: Phenolic
Finish: Gloss Black





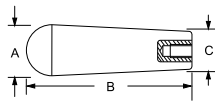

| Series Part Number | Primary Dimensions A | B | C | D | Available Thread Sizes (code #) 8-32 (08) | 10-32 (10) | 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) |
|---|---|---|---|---|---|---|---|---|---|
| **G024** | .78" | 1.00" | .55" | .38" | X | X | X | | |
| **S051** | 1.16" | 2.00" | .80" | .50" | | | X | X | X |

- Threaded insert (pictured and illustrated)
- Highly polished finish, no parting line
- Configured only with brass threaded inserts (I)
- Excellent in high temperatures

## Smooth Tapered Handles

Material: Phenolic
Finish: Gloss Black





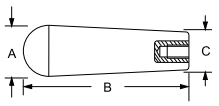

| Series Part Number | Primary Dimensions A | B | C | Head Shape | Available Thread Sizes (code #) 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | .25" Drive (D1) | .31" Drive (D2) | .38" Drive (D3) | .25" thru (T1) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **0691** | .75" | 2.28" | .56" | flat | X | X | X | X | | | X |
| **0692** | .88" | 2.64" | .66" | flat | X | X | X | | X | X | |
| **0697** | 1.13" | 3.00" | .63" | round | X | X | X | X | | | |
| **5582** | 1.00" | 3.88" | .66" | round | X | X | X | X | X | X | |

- Flat (pictured) or round (illustrated) head shapes
- Excellent in high temperatures
- Configured with threaded inserts (I), molded threads (M), projecting studs (P) drive fit (D) and thru-hole (T)

## Ribbed Tapered handles

Material: Phenolic
Finish: Gloss Black






| Series Part Number | Primary Dimensions A | B | C | Head Shape | Available Thread Sizes (code #) 1/4-20 (25) | 5/16-18 (31) | 3/8-16 (37) | 1/2-13 (50) | .25" Drive (D1) | .31" Drive (D2) | .38" Drive (D3) | .50" Drive (D5) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **0720** | .88" | 2.64" | .66" | flat | X | X | X | | X | X | X | X |
| **0700** | 1.13" | 3.00" | .63" | round | X | X | X | | X | | | |
| **0710** | 1.13" | 3.88" | .66" | round | X | X | X | X | | X | X | |
| **0698** | 1.38" | 4.38" | 1.00" | flat | | X | X | X | | X | X | X |
| **0730** | 1.38" | 5.06" | 1.00" | round | | X | X | X | | X | | |

- Flat (pictured) or round (illustrated) head shapes
- Excellent in high temperatures
- Configured with threaded inserts (I), molded threads (M), projecting studs (P) or drive fit (D)





All dimensions are for reference only.
Please call for samples and/or a technical drawing.

# LEVELING MOUNTS

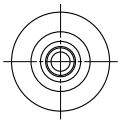
## NSF RECOGNIZED STAINLESS STEEL

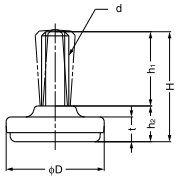
STAINLESS

### NSF POLYPROPYLENE BASE

INCH

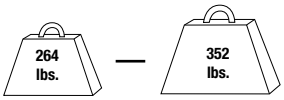




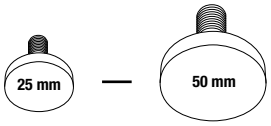









Static load range (per mount)




Base diameter range

**Material:** Cover - 304 stainless steel
Bolt - Steel
Base - Polypropylene
**Finish:** Cover - Satin
Bolt - Chrome
Base - White

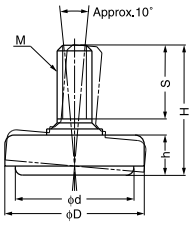
| PART NUMBER | PRIMARY DIMENSIONS | | | | | MOUNTING | MAXIMUM STATIC LOAD |
|---|---|---|---|---|---|---|---|
| | BASE DIAMETER "D" | OVERALL HEIGHT "H" | STUD LENGTH "h1" | BASE CAP HEIGHT "h2" | BASE HEIGHT "t" | THREAD SIZE | |
| MH-25 | 25 (.098") | 40 (1.57") | 27 (1.06") | 13 (.51") | 9 (.35") | 5/16-18 | 264 lbs. |
| MH-32 | 32 (1.26") | 40 (1.57") | 27 (1.06") | 13 (.51") | 9 (.35") | 3/8-16 | 352 lbs. |
| MH-36 | 36 (1.41") | 40 (1.57") | 27 (1.06") | 13 (.51") | 9 (.35") | 3/8-16 | 352 lbs. |
| MH-40 | 40 (1.57") | 40 (1.57") | 27 (1.06") | 13 (.51") | 9 (.35") | 3/8-16 | 352 lbs. |
| MH-50 | 50 (1.97") | 50 (1.97") | 34 (1.34") | 16 (.63") | 11 (.43") | 1/2-12 | 352 lbs. |

### NSF STAINLESS BASE

INCH

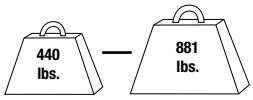
METRIC



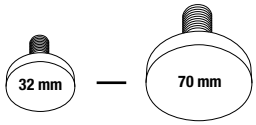





**Material:** 304 stainless steel
**Finish:** Satin




Static load range (per mount)




Base diameter range

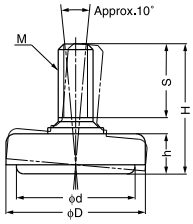
| PART NUMBER | PRIMARY DIMENSIONS | | | | MOUNTING | | MAXIMUM STATIC LOAD |
|---|---|---|---|---|---|---|---|
| | "D" | "d" | "H" | "h" | "S" | THREAD SIZE | |
| MKPS-32N3 | 32 (1.26") | 27 (1.06") | 36 (1.41") | 11 (.43") | 21 (.83") | 3/16-18 | 440 lbs. |
| MKPS-40N3 | 40 (1.57") | 34 (1.34") | 37 (1.46") | 11.5 (.45") | 21 (.83") | 3/16-18 | 704 lbs. |
| MKPS-50N3 | 50 (1.97") | 44 (1.73") | 37.5 (1.48") | 11.5 (.45") | 21 (.83") | 3/16-18 | 792 lbs. |
| MKPS-60M12 | 60 (2.36") | 54 (2.13") | 51.5 (2.03") | 11.5 (.45") | 35 (1.38") | M12 | 881 lbs. |
| MKPS-70M14 | 70 (2.76") | 64 (2.52") | 51.5 (2.03") | 11.5 (.45") | 35 (1.38") | M14 | 881 lbs. |

### NSF NO-SLIP BASE

INCH

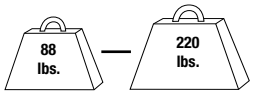
METRIC



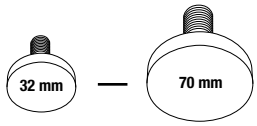





**Material:** Body - 304 stainless steel
Base - Elastomer
**Finish:** Body - Satin
Base - Black




Static load range (per mount)




Base diameter range

| PART NUMBER | PRIMARY DIMENSIONS | | | | MOUNTING | | MAXIMUM STATIC LOAD |
|---|---|---|---|---|---|---|---|
| | "D" | "d" | "H" | "h" | "S" | THREAD SIZE | |
| MKRS-32N3 | 32 (1.26") | 27 (1.06") | 36 (1.41") | 11 (.43") | 21 (.83") | 3/16-18 | 88 lbs. |
| MKRS-40N3 | 40 (1.57") | 34 (1.34") | 37 (1.46") | 11.5 (.45") | 21 (.83") | 3/16-18 | 176 lbs. |
| MKRS-50N3 | 50 (1.97") | 44 (1.73") | 37.5 (1.48") | 11.5 (.45") | 21 (.83") | 3/16-18 | 220 lbs. |
| MKRS-60M12 | 60 (2.36") | 54 (2.13") | 51.5 (2.03") | 11.5 (.45") | 35 (1.38") | M12 | 220 lbs. |
| MKRS-70M14 | 70 (2.76") | 64 (2.52") | 51.5 (2.03") | 11.5 (.45") | 35 (1.38") | M14 | 220 lbs. |

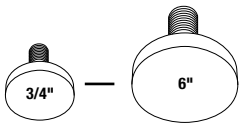
- **Swivels 10° in all directions.**
- **Furnished with jamb nuts.**
- **Steel or stainless steel.**
- **Standard plain or non-skid base.**

## METAL BASE LEVELING MOUNTS

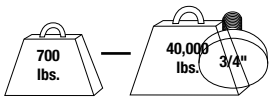
STEEL OR STAINLESS

INCH

## PROJECTING STUD



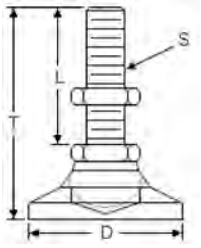

**Base diameter range**




**Static load range (per mount)**

| PROJECTING STUD - PART NUMBERS | | | | PRIMARY DIMENSIONS | | MOUNTING | | MAXIMUM STATIC LOAD (LBS.) |
|---|---|---|---|---|---|---|---|---|
| STEEL | | STAINLESS STEEL | | BASE DIAMETER "D" | TOTAL LENGTH "T" | THREAD SIZE "S" | THREAD LENGTH "L" | |
| STANDARD | NON-SKID | STANDARD | NON-SKID | | | | | |
| 79-503-10 | 79-603-10 | 79-503-15 | 79-603-15 | .75" | 1.53" | 10-32 | 1.00" | 700 lbs. |
| 79-503-20 | 79-603-20 | 79-503-25 | 79-603-25 | | 2.53" | | 2.00" | |
| 79-514-10 | 79-614-10 | 79-514-15 | 79-614-15 | 1.00" | 1.95" | 1/4-20 | 1.25" | 1000 lbs. |
| 79-514-20 | 79-614-20 | 79-514-25 | 79-614-25 | | 3.20" | | 2.50" | |
| 79-576-20 | 79-676-20 | 79-576-25 | 79-676-25 | 1.25" | 2.88" | 3/8-16 | 2.00" | 3500 lbs. |
| 79-576-40 | 79-676-40 | 79-576-45 | 79-676-45 | | 4.88" | | 4.00" | |
| 79-587-20 | 79-687-20 | 79-587-25 | 79-687-25 | 1.88" | 3.13" | 1/2-13 | 2.00" | 5000 lbs. |
| 79-587-40 | 79-687-40 | 79-587-45 | 79-687-45 | | 5.13" | | 4.00" | |
| 79-590-20 | 79-690-20 | 79-590-25 | 79-690-25 | 2.50" | 3.25" | 5/8-11 | 2.00" | 6000 lbs. |
| 79-590-40 | 79-690-40 | 79-590-45 | 79-690-45 | | 5.25" | | 4.00" | |
| 79-538-20 | 79-638-20 | 79-538-25 | 79-638-25 | 3.00" | 3.50" | 3/4-10 | 2.00" | 7000 lbs. |
| 79-538-40 | 79-638-40 | 79-538-45 | 79-638-45 | | 5.50" | | 4.00" | |
| 79-549-30 | 79-649-30 | 79-549-35 | 79-649-35 | 4.00" | 5.38" | 1-8 | 3.50" | 20,000 lbs. |
| 79-549-40 | 79-649-40 | 79-549-45 | 79-649-45 | | 6.13" | | 4.25" | |
| 79-549-60 | 79-649-60 | 79-549-65 | 79-649-65 | | 7.88" | | 6.00" | |
| 79-561-40 | 79-661-40 | 79-561-45 | 79-661-45 | 6.00" | 6.75" | 1 1/4 - 7 | 4.00" | 40,000 lbs. |
| 79-561-60 | 79-661-60 | 79-561-65 | 79-661-65 | | 8.75" | | 6.00" | |

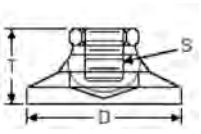





## THREADED INSERT

| THREADED INSERT - PART NUMBERS | | | | PRIMARY DIMENSIONS | | MOUNTING | MAXIMUM STATIC LOAD (LBS.) |
|---|---|---|---|---|---|---|---|
| STEEL | | STAINLESS STEEL | | BASE DIAMETER "D" | TOTAL LENGTH "T" | THREAD SIZE "S" | |
| STANDARD | NON-SKID | STANDARD | NON-SKID | | | | |
| 79-503-00 | 79-603-00 | 79-503-05 | 79-603-05 | .75" | .53" | 10-32 | 700 lbs. |
| 79-514-00 | 79-614-00 | 79-514-05 | 79-614-05 | 1.00" | .70" | 1/4-20 | 1000 lbs. |
| 79-575-00 | 79-675-00 | 79-575-05 | 79-675-05 | 1.25" | .88" | 5/16-18 | 2000 lbs. |
| 79-576-00 | 79-676-00 | 79-576-05 | 79-676-05 | | .88" | 3/8-16 | 3500 lbs. |
| 79-587-00 | 79-687-00 | 79-587-05 | 79-687-05 | 1.88" | 1.13" | 1/2-13 | 5000 lbs. |
| 79-590-00 | 79-690-00 | 79-590-05 | 79-690-05 | 2.50" | 1.25" | 5/8-11 | 6000 lbs. |
| 79-538-00 | 79-638-00 | 79-538-05 | 79-638-05 | 3.00" | 1.50" | 3/4-10 | 7000 lbs. |
| 79-549-00 | 79-649-00 | 79-549-05 | 79-649-05 | 4.00" | 5.38" | 1-8 | 20,000 lbs. |
| 79-561-00 | 79-661-00 | 79-561-05 | 79-661-05 | 6.00" | 6.75" | 1 1/4 - 7 | 40,000 lbs. |






**Metric threading is available, please call.**
**Clear zinc, nickel, and black oxide finishes are also available.**

**Material and Finish:**

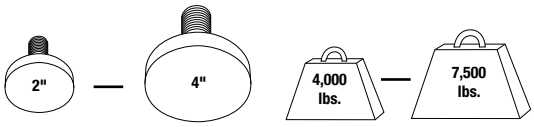
**Base:**
**Steel – yellow zinc.**
**Stainless steel – plain.**

**Stud or Insert:**
**Steel – yellow zinc.**
**Stainless steel – plain.**

**Note:**
**Add .125" to total length for non-skid pad.**

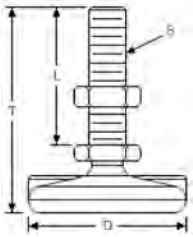
# LEVELING MOUNTS
## NYLON BASE

### NYLON BASE LEVELING MOUNTS




**Base diameter range** | **Static load range (per mount)**

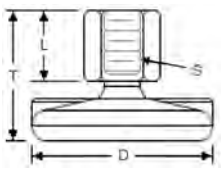





- **15˚ swivel in all directions.**
- **Non-corrosive high strength glass filled nylon base.**
- **Available with or without lag holes.**
- **Innovative "pop-out" lag holes allow for permanent mounting.**
- **Available with or without non-skid pad.**

| PROJECTING STUD - PART NUMBER | | | | PRIMARY DIMENSIONS | | MOUNTING | | MAXIMUM STATIC LOAD (LBS.) |
|---|---|---|---|---|---|---|---|---|
| STEEL | | STAINLESS STEEL | | BASE DIAMETER "D" | TOTAL LENGTH "T" | THREAD SIZE "S" | THREAD LENGTH "L" | |
| STANDARD | NON-SKID | STANDARD | NON-SKID | | | | | |
| 79-126-40 | 79-226-40 | 79-126-45 | 79-226-45 | 2.00" | 5.12" | 3/8-16 | 4.00" | 4000 lbs. |
| 79-126-60 | 79-226-60 | 79-126-65 | 79-226-65 | | 7.12" | | 6.00" | |
| 79-126-80 | 79-226-80 | 79-126-85 | 79-226-85 | | 9.12" | | 8.00" | |
| 79-127-40 | 79-227-40 | 79-127-45 | 79-227-45 | 2.00" | 5.12" | 1/2-13 | 4.00" | 4000 lbs. |
| 79-127-60 | 79-227-60 | 79-127-65 | 79-227-65 | | 7.12" | | 6.00" | |
| 79-127-80 | 79-227-80 | 79-127-85 | 79-227-85 | | 9.12" | | 8.00" | |
| 79-136-40 | 79-236-40 | 79-136-45 | 79-236-45 | 3.00" | 5.12" | 3/8-16 | 4.00" | 5000 lbs. |
| 79-136-60 | 79-236-60 | 79-136-65 | 79-236-65 | | 7.12" | | 6.00" | |
| 79-136-80 | 79-236-80 | 79-136-85 | 79-236-85 | | 9.12" | | 8.00" | |
| 79-137-40 | 79-237-40 | 79-137-45 | 79-237-45 | 3.00" | 5.12" | 1/2-13 | 4.00" | 5000 lbs. |
| 79-137-60 | 79-237-60 | 79-137-65 | 79-237-65 | | 7.12" | | 6.00" | |
| 79-137-80 | 79-237-80 | 79-137-85 | 79-237-85 | | 9.12" | | 8.00" | |
| 79-138-40 | 79-238-40 | 79-138-45 | 79-238-45 | 3.00" | 5.12" | 3/4-10 | 4.00" | 5000 lbs. |
| 79-138-60 | 79-238-60 | 79-138-65 | 79-238-65 | | 7.12" | | 6.00" | |
| 79-138-80 | 79-238-80 | 79-138-85 | 79-238-85 | | 9.12" | | 8.00" | |
| 79-146-40 | 79-246-40 | 79-146-45 | 79-246-45 | 4.00" | 5.31" | 3/8-16 | 4.00" | 3500 lbs. |
| 79-146-60 | 79-246-60 | 79-146-65 | 79-246-65 | | 7.31" | | 6.00" | |
| 79-146-80 | 79-246-80 | 79-146-85 | 79-246-85 | | 9.31" | | 8.00" | |
| 79-147-40 | 79-247-40 | 79-147-45 | 79-247-45 | 4.00" | 5.31" | 1/2-13 | 4.00" | 5000 lbs. |
| 79-147-60 | 79-247-60 | 79-147-65 | 79-247-65 | | 7.31" | | 6.00" | |
| 79-147-80 | 79-247-80 | 79-147-85 | 79-247-85 | | 9.31" | | 8.00" | |
| 79-148-40 | 79-248-40 | 79-148-45 | 79-248-45 | 4.00" | 5.31" | 3/4-10 | 4.00" | 7500 lbs. |
| 79-148-60 | 79-248-60 | 79-148-65 | 79-248-65 | | 7.31" | | 6.00" | |
| 79-148-80 | 79-248-80 | 79-148-85 | 79-248-85 | | 9.31" | | 8.00" | |
| 79-149-40 | 79-249-40 | 79-149-45 | 79-249-45 | 4.00" | 5.31" | 1-8 | 4.00" | 7500 lbs. |
| 79-149-60 | 79-249-60 | 79-149-65 | 79-249-65 | | 7.31" | | 6.00" | |
| 79-149-80 | 79-249-80 | 79-149-85 | 79-249-85 | | 9.31" | | 8.00" | |






| THREADED INSERT - PART NUMBERS | | | | PRIMARY DIMENSIONS | | MOUNTING | MAXIMUM STATIC LOAD (LBS.) |
|---|---|---|---|---|---|---|---|
| STEEL | | STAINLESS STEEL | | BASE DIAMETER "D" | TOTAL LENGTH "T" | THREAD SIZE "S" | |
| STANDARD | NON-SKID | STANDARD | NON-SKID | | | | |
| 79-126-00 | 79-226-00 | 79-126-05 | 79-226-05 | 2.00" | 1.63" | 5/16-18 | 4000 lbs. |
| 79-127-00 | 79-227-00 | 79-127-05 | 79-227-05 | | 1.63" | 1/2-13 | 4000 lbs. |
| 79-136-00 | 79-236-00 | 79-136-05 | 79-236-05 | 3.00" | 1.63" | 5/16-18 | 5000 lbs. |
| 79-137-00 | 79-237-00 | 79-137-05 | 79-237-05 | | 1.63" | 1/2-13 | 5000 lbs. |
| 79-138-00 | 79-238-00 | 79-138-05 | 79-238-05 | | 1.63" | 3/4-10 | 5000 lbs. |
| 79-146-00 | 79-246-00 | 79-146-05 | 79-246-05 | 4.00" | 1.63" | 5/16-18 | 3500 lbs. |
| 79-147-00 | 79-247-00 | 79-147-05 | 79-247-05 | | 1.63" | 1/2-13 | 5000 lbs |
| 79-148-00 | 79-248-00 | 79-148-05 | 79-248-05 | | 1.63" | 3/4-10 | 7500 lbs. |
| 79-149-00 | 79-249-00 | 79-149-05 | 79-249-05 | | 1.63" | 1-8 | 7500 lbs. |

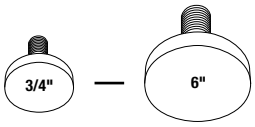
**Metric threading is available, please call.**

**Note:**
**Add .06" to total length for non-skid base.**

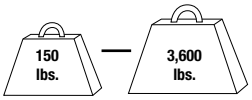
**Material and Finish:**

**Base: Nylon, Black**

**Stud or Insert:**
**Steel – clear zinc plated**
**Stainless steel – plain**




**Base diameter range**




**Static load range (per mount)**

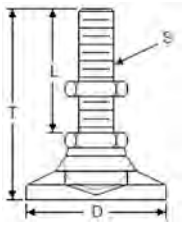
## DELRIN BASE LEVELING MOUNTS




- **Swivels 10° in all directions.**
- **Non-corrosive delrin base, excellent for washdown environment.**
- **Available with steel or stainless steel studs or inserts.**
- **Available with or without non-skid pad.**

## PROJECTING STUD

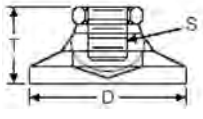





| PROJECTING STUD - PART NUMBERS | | | | PRIMARY DIMENSIONS | | MOUNTING | | MAXIMUM STATIC LOAD (LBS.) |
|---|---|---|---|---|---|---|---|---|
| STEEL | | STAINLESS STEEL | | BASE DIAMETER "D" | TOTAL LENGTH "T" | THREAD SIZE "S" | THREAD LENGTH "L" | |
| STANDARD | NON-SKID | STANDARD | NON-SKID | | | | | |
| 79-703-10 | 79-803-10 | 79-703-15 | 79-803-15 | .75" | 1.53" | 10-32 | 1.00" | 150 lbs. |
| 79-703-20 | 79-803-20 | 79-703-25 | 79-803-25 | | 2.53" | | 2.00" | |
| 79-714-10 | 79-814-10 | 79-714-15 | 79-814-15 | 1.00" | 1.95" | 1/4-20 | 1.25" | 200 lbs. |
| 79-714-20 | 79-814-20 | 79-714-25 | 79-814-25 | | 3.20" | | 2.50" | |
| 79-776-20 | 79-876-20 | 79-776-25 | 79-876-25 | 1.25" | 2.88" | 3/8-16 | 2.00" | 300 lbs. |
| 79-776-40 | 79-876-40 | 79-776-45 | 79-876-45 | | 4.88" | | 4.00" | |
| 79-787-20 | 79-887-20 | 79-787-25 | 79-887-25 | 1.88" | 3.13" | 1/2-13 | 2.00" | 700 lbs. |
| 79-787-40 | 79-887-40 | 79-787-45 | 79-887-45 | | 5.13" | | 4.00" | |
| 79-790-20 | 79-890-20 | 79-790-25 | 79-890-25 | 2.50" | 3.25" | 5/8-11 | 2.00" | 1200 lbs. |
| 79-790-40 | 79-890-40 | 79-790-45 | 79-890-45 | | 5.25" | | 4.00" | |
| 79-738-20 | 79-838-20 | 79-738-25 | 79-838-25 | 3.00" | 3.50" | 3/4-10 | 2.00" | 1800 lbs. |
| 79-738-40 | 79-838-40 | 79-738-45 | 79-838-45 | | 5.50" | | 4.00" | |
| 79-749-30 | 79-849-30 | 79-749-35 | 79-849-35 | 4.00" | 5.38" | 1-8 | 3.50" | 2400 lbs. |
| 79-749-40 | 79-849-40 | 79-749-45 | 79-849-45 | | 6.13" | | 4.25" | |
| 79-749-60 | 79-849-60 | 79-749-65 | 79-849-65 | | 7.88" | | 6.00" | |
| 79-761-40 | 79-861-40 | 79-761-45 | 79-861-45 | 6.00" | 6.75" | 1 1/4 - 7 | 4.00" | 3600 lbs. |
| 79-761-60 | 79-861-60 | 79-761-65 | 79-861-65 | | 8.75" | | 6.00" | |

## THREADED INSERT






| THREADED INSERT - PART NUMBERS | | | | PRIMARY DIMENSIONS | | MOUNTING | MAXIMUM STATIC LOAD (LBS.) |
|---|---|---|---|---|---|---|---|
| STEEL | | STAINLESS STEEL | | BASE DIAMETER "D" | TOTAL LENGTH "T" | THREAD SIZE "S" | |
| STANDARD | NON-SKID | STANDARD | NON-SKID | | | | |
| 79-703-00 | 79-803-00 | 79-703-05 | 79-803-05 | .75" | .53" | 10-32 | 150 lbs. |
| 79-714-00 | 79-814-00 | 79-714-05 | 79-814-05 | 1.00" | .70" | 1/4-20 | 200 lbs. |
| 79-775-00 | 79-875-00 | 79-775-05 | 79-875-05 | 1.25" | .88" | 5/16-18 | 250 lbs. |
| 79-776-00 | 79-876-00 | 79-776-05 | 79-876-05 | | .88" | 3/8-16 | 300 lbs. |
| 79-787-00 | 79-887-00 | 79-787-05 | 79-887-05 | 1.88" | 1.13" | 1/2-13 | 700 lbs. |
| 79-790-00 | 79-890-00 | 79-790-05 | 79-890-05 | 2.50" | 1.25" | 5/8-11 | 1200 lbs. |
| 79-738-00 | 79-838-00 | 79-738-05 | 79-838-05 | 3.00" | 1.50" | 3/4-10 | 1800 lbs. |
| 79-749-00 | 79-849-00 | 79-749-05 | 79-849-05 | 4.00" | 5.38" | 1-8 | 2400 lbs. |
| 79-761-00 | 79-861-00 | 79-761-05 | 79-861-05 | 6.00" | 6.75" | 1 1/4 - 7 | 3600 lbs. |

**Metric threading is available, please call.**
**Clear zinc, nickel, and black oxide finishes are also available.**

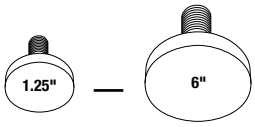
**Material and Finish:**

**Base: Delrin, white.**
**Stud or Insert:**
**Steel – yellow zinc plated.**
**Stainless steel – plain.**

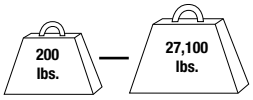
**Note:**
**Add .125" to total length for non-skid base.**

# LEVELING MOUNTS
## ANTI-VIBRATION

## ANTI-VIBE® MACHINE MOUNTS



Base diameter range



Static load range (per mount)

STEEL OR STAINLESS

INCH

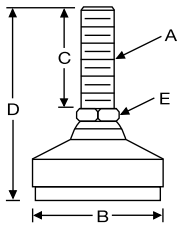
- Light, medium and heavy duty configurations.
- Can isolate transmitted vibration up to 98%.
- Protects your machinery.

**Material:**

Low carbon steel, or 303 stainless steel

## PROJECTING STUD



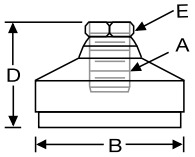



| | PROJECTING STUD PART NUMBERS | | PRIMARY DIMENSIONS | | MOUNTING | | MAXIMUM STATIC LOAD (LBS.) |
|---|---|---|---|---|---|---|---|
| | STEEL | STAINLESS STEEL | BASE DIA. "D" | LENGTH "T" | THREAD SIZE "S" | THREAD LENGTH "L" | |
| LIGHT DUTY | 79-AV1L-200 | 79-AV1L-205 | 1.25" | 3.50" | 3/8 - 16 | 2.00" | 200 LBS. |
| | 79-AV2L-200 | 79-AV2L-205 | 1.88" | 3.75" | 1/2 - 13 | 2.00" | 500 LBS. |
| | 79-AV3L-200 | 79-AV3L-205 | 2.50" | 3.88" | 5/8 - 11 | 2.00" | 900 LBS. |
| | 79-AV4L-200 | 79-AV4L-205 | 3.00" | 4.13" | 3/4 - 10 | 2.00" | 1250 LBS. |
| | 79-AV5L-350 | 79-AV5L-355 | 4.00" | 6.00" | 1 - 8 | 3.50" | 2250 LBS. |
| | 79-AV6L-400 | 79-AV6L-405 | 6.00" | 6.88" | 1 1/4 - 7 | 4.00" | 5000 LBS. |
| MEDIUM DUTY | 79-AV1M-200 | 79-AV1M-205 | 1.25" | 3.50" | 3/8 - 16 | 2.00" | 400 LBS. |
| | 79-AV2M-200 | 79-AV2M-205 | 1.88" | 3.75" | 1/2 - 13 | 2.00" | 1000 LBS. |
| | 79-AV3M-200 | 79-AV3M-205 | 2.50" | 3.88" | 5/8 - 11 | 2.00" | 1800 LBS. |
| | 79-AV4M-200 | 79-AV4M-205 | 3.00" | 4.13" | 3/4 - 10 | 2.00" | 2500 LBS. |
| | 79-AV5M-350 | 79-AV5M-355 | 4.00" | 6.00" | 1 - 8 | 3.50" | 4500 LBS. |
| | 79-AV6M-400 | 79-AV6M-405 | 6.00" | 6.88" | 1 1/4 - 7 | 4.00" | 10,000 LBS. |
| HEAVY DUTY | 79-AV1H-200 | 79-AV1H-205 | 1.25" | 3.50" | 3/8 - 16 | 2.00" | 995 LBS. |
| | 79-AV2H-200 | 79-AV2H-205 | 1.88" | 3.75" | 1/2 - 13 | 2.00" | 2400 LBS. |
| | 79-AV3H-200 | 79-AV3H-205 | 2.50" | 3.88" | 5/8 - 11 | 2.00" | 4400 LBS. |
| | 79-AV4H-200 | 79-AV4H-205 | 3.00" | 4.13" | 3/4 - 10 | 2.00" | 6500 LBS. |
| | 79-AV5H-350 | 79-AV5H-355 | 4.00" | 6.00" | 1 - 8 | 3.50" | 11,800 LBS. |
| | 79-AV6H-400 | 79-AV6H-405 | 6.00" | 6.88" | 1 1/4 - 7 | 4.00" | 27,100 LBS. |

## THREADED INSERT

**Metric sizes are available, please call.**






| | THREADED INSERT PART NUMBERS | | PRIMARY DIMENSIONS | | MOUNTING | MAXIMUM STATIC LOAD (LBS.) |
|---|---|---|---|---|---|---|
| | STEEL | STAINLESS STEEL | BASE DIA. "D" | LENGTH "T" | THREAD SIZE "S" | |
| LIGHT DUTY | 79-AV1L-00 | 79-AV1L-05 | 1.25" | 1.50" | 3/8 - 16 | 50 LBS. |
| | 79-AV2L-00 | 79-AV2L-05 | 1.88" | 1.75" | 1/2 - 13 | 120 LBS. |
| | 79-AV3L-00 | 79-AV3L-05 | 2.50" | 1.88" | 5/8 - 11 | 220 LBS. |
| | 79-AV4L-00 | 79-AV4L-05 | 3.00" | 2.13" | 3/4 - 10 | 325 LBS. |
| | 79-AV5L-00 | 79-AV5L-05 | 4.00" | 2.50" | 1 - 8 | 590 LBS. |
| | 79-AV6L-00 | 79-AV6L-05 | 6.00" | 2.88" | 1 1/4 - 7 | 1350 LBS. |
| MEDIUM DUTY | 79-AV1M-00 | 79-AV1M-05 | 1.25" | 1.50" | 3/8 - 16 | 100 LBS. |
| | 79-AV2M-00 | 79-AV2M-05 | 1.88" | 1.75" | 1/2 - 13 | 240 LBS. |
| | 79-AV3M-00 | 79-AV3M-05 | 2.50" | 1.88" | 5/8 - 11 | 440 LBS. |
| | 79-AV4M-00 | 79-AV4M-05 | 3.00" | 2.13" | 3/4 - 10 | 650 LBS. |
| | 79-AV5M-50 | 79-AV5M-05 | 4.00" | 2.50" | 1 - 8 | 1180 LBS. |
| | 79-AV6M-00 | 79-AV6M-05 | 6.00" | 2.88" | 1 1/4 - 7 | 2710 LBS. |
| HEAVY DUTY | 79-AV1H-00 | 79-AV1H-05 | 1.25" | 1.50" | 3/8 - 16 | 250 LBS. |
| | 79-AV2H-00 | 79-AV2H-05 | 1.88" | 1.75" | 1/2 - 13 | 600 LBS. |
| | 79-AV3H-00 | 79-AV3H-05 | 2.50" | 1.88" | 5/8 - 11 | 1100 LBS. |
| | 79-AV4H-00 | 79-AV4H-05 | 3.00" | 2.13" | 3/4 - 10 | 1625 LBS. |
| | 79-AV5H-50 | 79-AV5H-05 | 4.00" | 2.50" | 1 - 8 | 2950 LBS. |
| | 79-AV6H-00 | 79-AV6H-05 | 6.00" | 2.88" | 1 1/4 - 7 | 6775 LBS. |

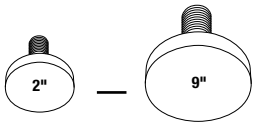




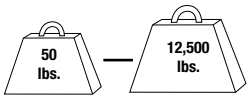
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Base diameter range




Static load range (per mount)

## MIGHTY MOUNT™

INCH

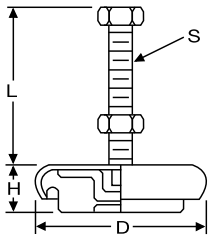
**Material:**

**Threaded stud – steel, zinc plate**
**Base – steel, safety yellow powder coat**

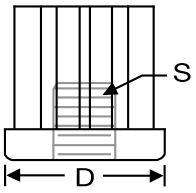
- **Meets OSHA anchoring standards.**
- **Rugged steel housing.**
- **High density non-skid base.**



| PART NUMBER | PRIMARY DIMENSIONS | | MOUNTING | | STATIC LOAD | |
|---|---|---|---|---|---|---|
| | BASE DIA. "D" | BASE HEIGHT "H" | THREAD SIZE "S" | THREAD LENGTH "L" | MINIMUM (LBS.) | MAXIMUM (LBS.) |
| **79-5028A** | 2.00" | 1.00" | 1/4 - 28 | 1.75" | 50 LBS. | 300 LBS. |
| **79-5016A** | 2.00" | 1.00" | 3/8 - 16 | 3.00" | 50 LBS. | 300 LBS. |
| **79-5024B** | 2.00" | 1.00" | 3/8 - 24 | 3.00" | 50 LBS. | 300 LBS. |
| **79-80163** | 3.00" | 1.50" | 3/8 - 16 | 3.00" | 300 LBS. | 700 LBS. |
| **79-80243** | 3.00" | 1.50" | 3/8 - 24 | 3.00" | 300 LBS. | 700 LBS. |
| **79-80136** | 3.00" | 1.50" | 1/2 - 13 | 6.00" | 300 LBS. | 700 LBS. |
| **79-120135** | 5.00" | 1.50" | 1/2 - 13 | 5.00" | 500 LBS. | 2000 LBS. |
| **79-120118** | 5.00" | 1.50" | 5/8 - 11 | 8.00" | 500 LBS. | 2000 LBS. |
| **79-160135** | 6.00" | 1.63" | 1/2 - 13 | 5.00" | 1000 LBS. | 4500 LBS. |
| **79-160105** | 6.00" | 1.63" | 5/8 - 11 | 5.00" | 1000 LBS. | 4500 LBS. |
| **79-160108** | 6.00" | 1.63" | 3/4 - 10 | 8.00" | 1000 LBS. | 4500 LBS. |
| **79-230105** | 9.00" | 2.50" | 3/4 - 10 | 5.00" | 4000 LBS. | 12,500 LBS. |
| **79-230148** | 9.00" | 2.50" | 1 - 14 | 8.00" | 4000 LBS. | 12,500 LBS. |




## THREAD ENDS

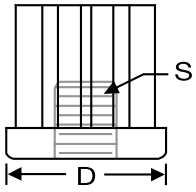





- **Easy installation.**
- **Durable construction.**
- **Metric available (please call).**

NON-CORROSIVE

INCH






| PART NUMBER | THREAD SIZE "S" | OUTSIDE DIAMETER "D" | TUBE GAUGE / SHAPE | TUBE DIAMETER | TUBE WALL THICKNESS | MAX. STATIC LOAD |
|---|---|---|---|---|---|---|
| **79-TE1-2A** | 3/8 - 16 | 1.50" Square | 16 gauge Square | 1.50" Square | .065" | 1500 lbs. |
| **79-TE1-2B** | 1/2 - 13 | | | | | |
| **79-TE1-2C** | 5/8 - 11 | | | | | |
| **79-TE1-2D** | 3/4 -10 | | | | | |
| **79-TE1-3A** | 3/8 - 16 | 1.50" Square | 11 gauge Square | 1.50" Square | .120" | 1500 lbs. |
| **79-TE1-3B** | 1/2 - 13 | | | | | |
| **79-TE1-3C** | 5/8 - 11 | | | | | |
| **79-TE1-3D** | 3/4 -10 | | | | | |
| **79-TE2-1A** | 3/8 - 16 | 2.00" Square | 16 gauge Square | 2.00" Square | .065" | 2000 lbs. |
| **79-TE2-1B** | 1/2 - 13 | | | | | |
| **79-TE2-1C** | 5/8 - 11 | | | | | |
| **79-TE2-1D** | 3/4 -10 | | | | | |
| **79-TE2-3A** | 3/8 - 16 | 2.00" Square | 11 - 12 gauge Square | 2.00" Square | .109" / .120" | 2000 lbs. |
| **79-TE2-3B** | 1/2 - 13 | | | | | |
| **79-TE2-3C** | 5/8 - 11 | | | | | |
| **79-TE2-3D** | 3/4 -10 | | | | | |

| PART NUMBER | THREAD SIZE "S" | OUTSIDE DIAMETER "D" | TUBE GAUGE / SHAPE | TUBE DIAMETER | TUBE WALL THICKNESS | MAX. STATIC LOAD |
|---|---|---|---|---|---|---|
| **79-TE1-1A** | 3/8 - 16 | 1.50" Round | 16 gauge Round | 1.50" Round | .065" | 1500 lbs. |
| **79-TE1-1B** | 1/2 - 13 | | | | | |
| **79-TE1-1C** | 5/8 - 11 | | | | | |
| **79-TE1-1D** | 3/4 -10 | | | | | |
| **79-TE2-2A** | 3/8 - 16 | 2.00" Round | 11 gauge Round | 2.00" Round | .120" | 2000 lbs. |
| **79-TE2-2B** | 1/2 - 13 | | | | | |
| **79-TE2-2C** | 5/8 - 11 | | | | | |
| **79-TE2-2D** | 3/4 -10 | | | | | |

**Material: Glass filled nylon with brass insert**

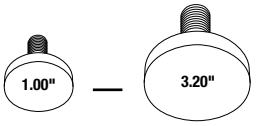




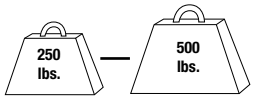
™ S&W Mfg. Co., Inc.

# LEVELING MOUNTS
## ECONOMY SERIES

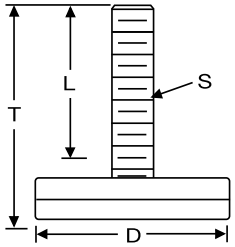
### GLIDE-RITE™




**Base diameter range**




**Static load range (per mount)**



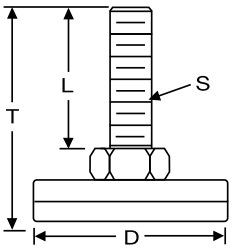



- **Economical design with capped base.**
- **Gliding thermo plastic or non-skid elastomer base.**
- **No articulation.**

**Material: Steel - zinc, plate or stainless steel - plain**

| PART NUMBERS | | | | PRIMARY DIMENSIONS | | MOUNTING | | MAXIMUM STATIC LOAD (LBS.) |
|---|---|---|---|---|---|---|---|---|
| Steel | | Stainless Steel | | BASE DIA. "D" | LENGTH "T" | THREAD SIZE "S" | THREAD LENGTH "L" | |
| Glide | Non Skid | Glide | Non-Skid | | | | | |
| 79-001-G | 79-001-NS | 79-501-G | 79-501-NS | 1.20" | 2.25" | 10 - 24 | 1.50" | 250 LBS. |
| 79-002-G | 79-002-NS | 79-502-G | 79-502-NS | | | 1/4 - 20 | | |
| 79-003-G | 79-003-NS | 79-503-G | 79-503-NS | | | 5/16 - 18 | | |
| 79-004-G | 79-004-NS | 79-504-G | 79-504-NS | 2.03" | 3.00" | 5/16 - 18 | 2.00" | 250 LBS. |
| 79-005-G | 79-005-NS | 79-505-G | 79-505-NS | | | 3/8 - 16 | | |
| 79-006-G | 79-006-NS | 79-506-G | 79-506-NS | 2.40" | 3.00" | 3/8 - 16 | 2.00" | 250 LBS. |
| 79-007-G | 79-007-NS | 79-507-G | 79-507-NS | | 5.00" | 3/8 - 16 | 4.00" | |
| 79-008-G | 79-008-NS | 79-508-G | 79-508-NS | | 3.00" | 1/2 - 13 | 2.00" | |
| 79-009-G | 79-009-NS | 79-509-G | 79-509-NS | | 5.00" | 1/2 - 13 | 4.00" | |
| 79-010-G | 79-010-NS | 79-510-G | 79-510-NS | 2.80" | 3.13" | 1/2 - 13 | 2.00" | 500 LBS. |
| 79-011-G | 79-011-NS | 79-511-G | 79-511-NS | | 5.13" | 1/2 - 13 | 4.00" | |
| 79-012-G | 79-012-NS | 79-512-G | 79-512-NS | | 3.13" | 5/8 - 11 | 2.00" | |
| 79-013-G | 79-013-NS | 79-513-G | 79-513-NS | | 5.13" | 5/8 - 11 | 4.00" | |
| 79-014-G | 79-014-NS | 79-514-G | 79-514-NS | 3.19" | 5.13" | 1/2 - 13 | 4.00" | 500LBS. |
| 79-015-G | 79-015-NS | 79-515-G | 79-515-NS | | 7.13" | 1/2 - 13 | 6.00" | |
| 79-016-G | 79-016-NS | 79-516-G | 79-516-NS | | 5.13" | 5/8 - 11 | 4.00" | |
| 79-017-G | 79-017-NS | 79-517-G | 79-517-NS | | 7.13" | 5/8 - 11 | 6.00" | |

### HEX-GLIDE






- **Similar to above with hex adjustable on the stud.**
- **No articulation.**
- **Steel only.**

| PART NUMBERS | | PRIMARY DIMENSIONS | | MOUNTING | | MAXIMUM STATIC LOAD (LBS.) |
|---|---|---|---|---|---|---|
| Steel | | BASE DIA. "D" | LENGTH "T" | THREAD SIZE "S" | THREAD LENGTH "L" | |
| Glide | Non Skid | | | | | |
| 79-WG1-2010-G | 79-WG1-2010-NS | 1.00" | 1.00" | 1/4 - 20 | 1.00" | 250 LBS. |
| 79-WG1-1810-G | 79-WG1-1810-NS | | 1.00" | 5/16 - 18 | 1.00" | |
| 79-WG3-1810-G | 79-WG3-1810-NS | 1.38" | 1.69" | 5/16 - 18 | 1.00" | 250 LBS. |
| 79-WG3-1615-G | 79-WG3-1615-NS | | 2.19" | 3/8 - 16 | 1.50" | |
| 79-WG3-1625-G | 79-WG3-1625-NS | | 3.19" | 3/8 - 16 | 2.50" | |
| 79-WG3-1315-G | 79-WG3-1315-NS | | 2.19" | 1/2 - 13 | 1.50" | |
| 79-WG3-1325-G | 79-WG3-1325-NS | | 3.19" | 1/2 - 13 | 2.50" | |
| 79-WG4-1615-G | 79-WG4-1615-NS | 1.69" | 2.19" | 3/8 - 16 | 1.50" | 250 LBS. |
| 79-WG4-1625-G | 79-WG4-1625-NS | | 3.19" | 3/8 - 16 | 2.50" | |
| 79-WG4-1315-G | 79-WG4-1315-NS | | 2.19" | 1/2 - 13 | 1.50" | |
| 79-WG4-1325-G | 79-WG4-1325-NS | | 3.19" | 1/2 - 13 | 2.50" | |

**Material: Steel - zinc, plate**





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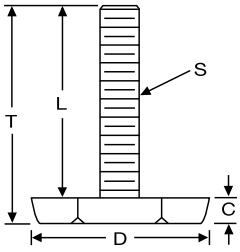
- **For light-duty applications.**
- **Economical design.**
- **No articulation.**

## STAMPED BASE

INCH

| PART NUMBER | PRIMARY DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|
| | BASE DIA. (FLATS) "D" | TOTAL LENGTH "T" | CAP HEIGHT "C" | THREAD SIZE "S" | THREAD LENGTH "L" |
| 79-S1-20-100 | .94" | 1.25" | .19" | 1/4 - 20 | 1.00" |
| 79-S1-20-125 | | 1.50" | | 1/4 - 20 | 1.25" |
| 79-S1-18-100 | | 1.25" | | 5/16 - 18 | 1.00" |
| 79-S2-20-150 | 1.07" | 1.75" | .19" | 1/4 - 20 | 1.50" |
| 79-S2-20-200 | | 2.25" | | 1/4 - 20 | 2.00" |
| 79-S2-18-150 | | 1.75" | | 5/16 - 18 | 1.50" |
| 79-S2-18-200 | | 2.25" | | 5/16 - 18 | 2.00" |
| 79-S3-20-100 | 1.38" | 1.25" | .15" | 1/4 - 20 | 1.00" |
| 79-S3-18-100 | | 1.25" | | 5/16 - 18 | 1.00" |
| 79-S3-16-150 | | 1.75" | | 3/8 - 16 | 1.50" |
| 79-S3-16-200 | | 2.25" | | 3/8 - 16 | 2.00" |
| 79-S3-16-250 | | 2.75" | | 3/8 - 16 | 2.50" |
| 79-S3-13-150 | | 1.75" | | 1/2 - 13 | 1.50" |
| 79-S3-13-200 | | 2.25" | | 1/2 - 13 | 2.00" |
| 79-S3-13-250 | | 2.75" | | 1/2 - 13 | 2.50" |
| 79-S3-13-300 | | 3.25" | | 1/2 - 13 | 3.00" |
| 79-S4-20-150 | 1.38" | 1.75" | .31" | 1/4 - 20 | 1.50" |
| 79-S4-20-200 | | 2.25" | | 1/4 - 20 | 2.00" |
| 79-S4-18-150 | | 1.75" | | 5/16 - 18 | 1.50" |
| 79-S4-18-200 | | 2.25" | | 5/16 - 18 | 2.00" |
| 79-S4-18-250 | | 2.75" | | 5/16 - 18 | 2.50" |
| 79-S4-16-150 | | 1.75" | | 3/8 - 16 | 1.50" |
| 79-S4-16-200 | | 2.25" | | 3/8 - 16 | 2.00" |
| 79-S4-16-250 | | 2.75" | | 3/8 - 16 | 2.50" |
| 79-S4-13-150 | | 1.75" | | 1/2 - 13 | 1.50" |
| 79-S4-13-200 | | 2.25" | | 1/2 - 13 | 2.00" |
| 79-S4-13-250 | | 2.75" | | 1/2 - 13 | 2.50" |
| 79-S4-13-300 | | 3.25" | | 1/2 - 13 | 3.00" |






**Material:**

**Steel - zinc, plated (black oxide available)**

- **Rugged, yet economical.**
- **No articulation.**

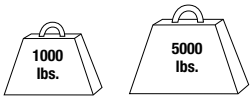
## HEX MOUNT

INCH

| PART NUMBER | PRIMARY DIMENSIONS | | MOUNTING | | MAX. STATIC LOAD |
|---|---|---|---|---|---|
| | BASE DIA. (FLATS) "D" | TOTAL LENGTH "T" | THREAD SIZE "S" | THREAD LENGTH "L" | |
| 79-H-1Z | .56" | 1.09" | 1/4 - 20 | 1.00" | 1000 LBS. |
| 79-H-2Z | .75" | 1.63" | 5/16 - 18 | 1.50" | 2300 LBS. |
| 79-H-3Z | .88" | 1.66" | 3/8 - 16 | 1.50" | 3750 LBS. |
| 79-H-4Z | .88" | 2.66" | 3/8 - 16 | 2.50" | 3750 LBS. |
| 79-H-5Z | 1.07" | 2.69" | 1/2 - 13 | 2.50" | 5000 LBS. |

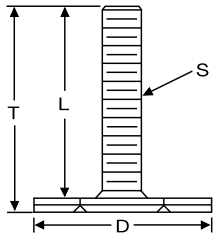
**Material:**

**Steel - zinc, plated**




**Static load range**





# LEVELING MOUNTS
## BUMPERS AND FEET

## URETHANE SELF-ADHESIVE BUMPERS

- Excellent skid-resistance.
- High coefficient of friction.
- Non-marring, non-staining material.
- High initial adhesion.
- UL flammability recognition: UL 94HB.
- 4 standard colors (see chart).
- Application specific material formulation and custom colors are available, please call.

**Head Styles**



Cylindrical



Square



Tapered Square



Hemisphere




**UL file number E83785**

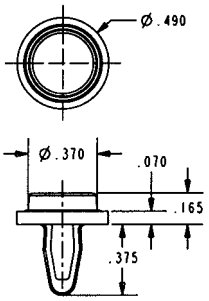
| SHAPE | URETHANE PART NUMBER | DIMENSIONS | | STANDARD COLORS | | | |
|---|---|---|---|---|---|---|---|
| | | HEAD HEIGHT | DIAMETER | CLEAR | BLACK | WHITE | GRAY |
| CYLINDRICAL | 4041-00 | .085" | .312" | X | — | — | — |
| | 4053* | .125" | .400" | — | X | — | — |
| | 4052-00 | .140" | .495" | — | X | — | — |
| | 4031-00 | .125" | .500" | — | — | X | — |
| | 4001-00 | .140" | .500" | X | X | X | — |
| | 4006-00 | .250" | .500" | — | — | X | — |
| | 4029-00 | .325" | .500" | — | X | — | — |
| | 4023-00 | .160" | .750" | — | X | — | — |
| | 4045-00 | .197" | .819" | — | — | — | X |
| | 4047-00 | .470" | .685" | — | X | — | — |
| SQUARE | 4007-00 | .100" | .400" X .400" SQUARE | X | — | — | — |
| | 4032-00 | .120" | .500" X .500" SQUARE | — | X | — | — |
| TAPERED SQUARE | 4009-00 | .230" | .500" X .500" SQUARE | — | X | — | — |
| | 4019-00 | .300" | .800" X .800" SQUARE | — | X | — | — |
| HEMISPHERE | 4042-00 | .150" | .375" | X | — | — | — |
| | 4002-00 | .200" | .437" | X | X | X | — |

## SNAP-IN BUMPER

- Quick and easy hand installation.
- High shear force and holding strength.
- Ideal for applications where conditions will not allow a self-stick bumper:
  - Moisture
  - Uneven surfaces





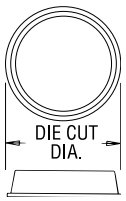

| SNAP-IN BUMPER PART NUMBER | BUMPER DIMENSIONS | | MOUNTING | |
|---|---|---|---|---|
| | HEIGHT | DIAMETER | HOLE DIAMETER | PANEL THICKNESS |
| 8202-00-9909 | .235" | .370" | .184"-.190" | .030"-.090" |

**Materials:** Nylon base, Urethane bumper.
**Color:** Black

**Note:** Listed dimensions are nominal.

- **Acrylic based adhesive yields excellent long-term adhesion.**
- **Base is solvent and ultra-violet light resistant.**
- **High shear strength.**
- **4 standard colors (see chart)**
- **Application specific material formulations and custom colors are available, please call.**

## PVC SELF-ADHESIVE BUMPERS




| SHAPE | PVC PART NUMBER | DIMENSIONS | | STANDARD COLORS | | | |
|---|---|---|---|---|---|---|---|
| | | HEAD HEIGHT | DIAMETER | BLACK | WHITE | GRAY | NATURAL |
| CYLINDRICAL | 5005-01-00 | .070" | .500" | X | X | — | X |
| | 5026-01-00 | .090" | .500" | X | — | — | — |
| | 5031-01-00 | .115" | .500" | X | — | — | — |
| | 5001-01-00 | .140" | .500" | X | — | X | X |
| | 5006-01-00 | .250" | .500" | X | — | — | X |
| | 5029-01-00 | .325" | .500" | — | — | X | — |
| | 5034-01-00 | .115" | .645" | X | — | — | — |
| | 5011-01-00 | .400 | .645" | X | X | — | — |
| | 5025-01-00 | .250" | .830" | X | — | — | — |
| SQUARE | 5033-01-00 | .185" | .375" X .375" SQUARE | X | — | — | — |
| | 5003-01-00 | .200" | .500" X .500" SQUARE | X | — | — | — |
| | 5010-01-00 | .260" | .510" X .510" SQUARE | X | — | — | — |
| | 5022-01-00 | .130" | .645" X .645" SQUARE | X | — | — | — |
| | 5004-01-00 | .340" | .760" X .760" SQUARE | X | — | — | — |
| TAPERED SQUARE | 5032-01-00 | .120" | .500" X .500" SQUARE | X | — | — | — |
| | 5019-01-00 | .300" | .810" X .810" SQUARE | X | — | — | — |
| HEMISPHERE | 5002-01-00 | .200" | .437" | X | — | — | — |
| | 5015-01-00 | .320" | .645" | X | — | — | — |
| CIRCULAR DEPRESSED | 5017-01-00 | .400" | .875" | X | — | — | — |
| | 5030-01-00 | .560" | 2.00" | — | X | — | — |
| CYLINDRICAL CONCAVE | 50918-01-00 | .140" | .500" | — | — | X | — |

### Head Shapes


Cylindrical


Square


Tapered Square


Hemisphere


Circular Depressed


Cylindrical Concave

**For detailed material specifications and product strength guidelines.**

**www.clancey.com**

## WIRE MANAGEMENT PRODUCTS

**See our complete line of wire management products pages 299 to 321.**









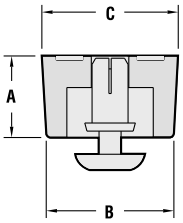


## HEYCO® FEETS OF STRENGTH™

### PUSH RIVET MOUNT

**Material:**
**Polypropylene/ Elostomer blend**





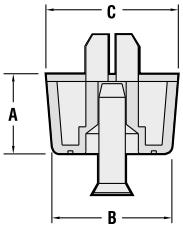

| PART NUMBER | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|
| BLACK | OVERALL HEIGHT "A" | TOP DIAMETER "B" | BOTTOM DIAMETER "C" | PANEL THICKNESS RANGE | HOLE DIAMETER |
| 2517 | .217" | .531" | .559" | .031" - .071" | .122" |
| 2518 | .217" | .531" | .559" | .071" - .110" | .122" |
| 2519 | .157" | .394" | .425" | .024" - .039" | .142" |
| 2520 | .157" | .394" | .425" | .039" - .079" | .142" |
| 2521 | .157" | .394" | .425" | .079" - .118" | .142" |
| 2522 | .165" | .787" | .827" | .031" - .071" | .161" |
| 2523 | .165" | .787" | .827" | .071" - .110" | .161" |
| 2524 | .165" | .787" | .827" | .110" - .146" | .161" |
| 2525 | .165" | .787" | .827" | .150" - .189" | .161" |
| 2526 | .236" | .787" | .827" | .031" - .071" | .161" |
| 2527 | .236" | .787" | .827" | .075" - .110" | .161" |
| 2528 | .236" | .787" | .827" | .114" - .157" | .161" |
| 2529 | .315" | .787" | .827" | .031" - .079 | .161" |
| 2530 | .315" | .787" | .827" | .083" - .118" | .161" |
| 2531 | .354" | .551" | .591" | .024" - .039" | .161" |
| 2532 | .354" | .551" | .591" | .039" - .079" | .161" |
| 2533 | .354" | .551" | .591" | .079" - .118" | .161" |

- **Quick, easy hand installation.**
- **17 sizes with various height combinations.**
- **Can be released with access to the blind side of the panel.**

### DRIVE PIN MOUNT

**Material:**
**Ethylene vinyl acetate**





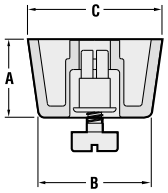

| PART NUMBER | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|
| BLACK | OVERALL HEIGHT "A" | TOP DIAMETER "B" | BOTTOM DIAMETER "C" | PANEL THICKNESS RANGE | HOLE DIAMETER |
| 2543 | .197" | .906" | .984" | .031" - .059" | .299" |
| 2544 | .236" | .787" | .827" | .197" - .315" | .303" |
| 2545 | .394" | .709" | .787" | .031" - .059" | .303" |
| 2547 | .472" | .709" | .787" | .031" - .047" | .319" |
| 2549 | .591" | .709" | .787" | .031" - .047" | .319" |
| 2551 | .709" | .709" | .787" | .031" - .047" | .319" |

- **Skid and vibration resistant.**

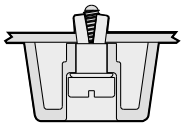
### SCREW–RIVET MOUNT

**Material:**
**Ethylene vinyl acetate acetyl screw**





Before Insertion


After Insertion

Other styles similar after insertion.

| PART NUMBER | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|
| BLACK | OVERALL HEIGHT "A" | TOP DIAMETER "B" | BOTTOM DIAMETER "C" | PANEL THICKNESS RANGE | HOLE DIAMETER |
| 2538 | .551" | .787" | .945" | .039" - .091" | .197" |

- **Push screw head to install.**
- **Use slotted screwdriver to remove.**





™ HEYCO Products, Inc.

## ADHESIVE BACKED CORD CLIPS

INCH

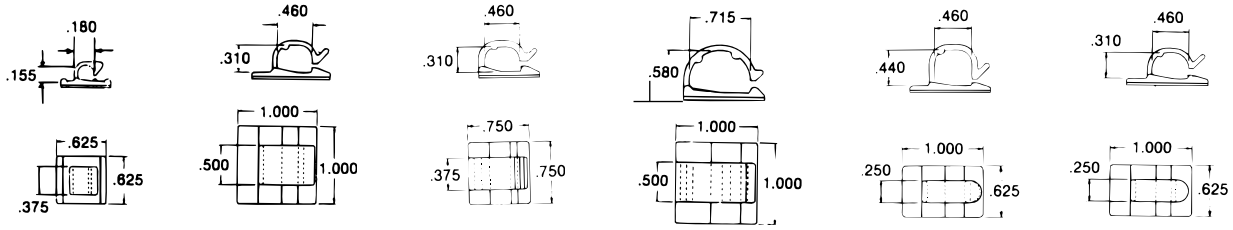
NON-CORROSIVE



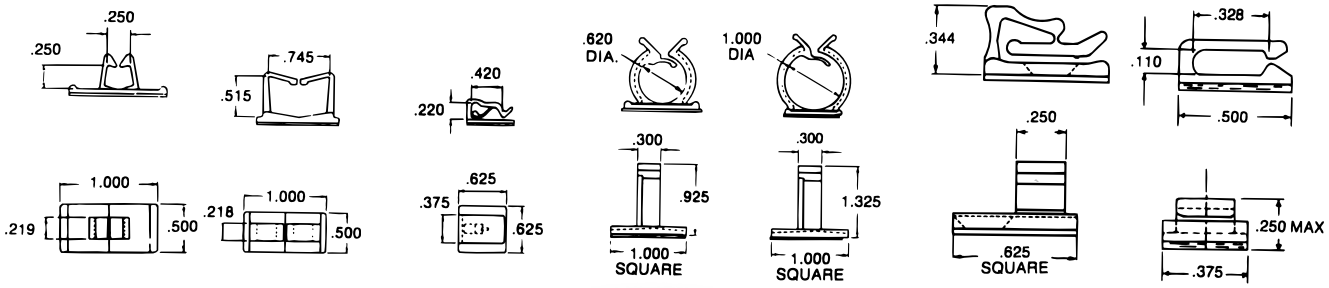
- **Easy hand installation.**
- **Install on clean, dry and smooth surfaces.**
- **Rounded corners and edges.**
- **Easy release paper protects adhesive until installation.**

**Material:** Nylon, foamed backed adhesive tape
**Colors:** Natural, black (some models)
**Note:** Bundle diameter range reflects a tight bundle

| PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER |
|---|---|---|---|---|---|
| 8511-28-00 | 8511-29-00 | 8511-30-00 | 8511-31-00 | 8511-34-00 | 8511-36-00 |
| MAXIMUM BUNDLE DIAMETER .156" | MAXIMUM BUNDLE DIAMETER .375" | MAXIMUM BUNDLE DIAMETER .375" | MAXIMUM BUNDLE DIAMETER .625" | MAXIMUM BUNDLE DIAMETER .450" | MAXIMUM BUNDLE DIAMETER .375" |
| AVAILABLE IN BLACK | AVAILABLE IN BLACK | | AVAILABLE IN BLACK | | |




| PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER |
|---|---|---|---|---|---|---|
| 8511-37-00 | 8511-38-00 | 8511-54-00 | 8511-55-00 | 8511-55-01 | 8511-56-00 | 8511-46-00 |
| MAXIMUM BUNDLE DIAMETER .250" | MAXIMUM BUNDLE DIAMETER .625" | MAXIMUM BUNDLE DIAMETER .156" | MAXIMUM BUNDLE DIAMETER .620" | MAXIMUM BUNDLE DIAMETER 1.00" | MAXIMUM BUNDLE DIAMETER .156" | MAXIMUM BUNDLE DIAMETER .156" |
| | | | | | SCREW HOLE #6 COUNTERSUNK | |




**Try this part in your application Please call for samples.**

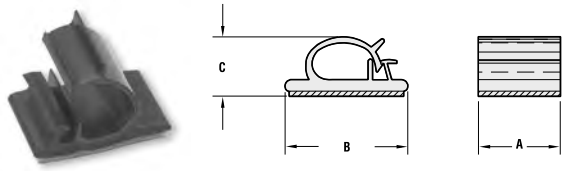
**800-747-7405**

# WIRE MANAGEMENT
## CORD CLIPS – ADHESIVE BACKED

| PART NUMBER | DIMENSIONS | | | MAXIMUM BUNDLE DIAMETER |
|---|---|---|---|---|
| BLACK | A | B | C | |
| *NARROW STYLE* | | | | |
| 3888 | .50" | .75" | .31" | .187" |
| 3889 | .50" | 1.02" | .41" | .250" |
| 3893 | .50" | 1.00" | .52" | .375" |
| 3895 | .50" | 1.25" | .67" | .500" |
| 3896 | .63" | 1.25" | .77" | .625" |
| 3897 | .75" | 1.50" | .94" | .750" |
| *WIDE STYLE* | | | | |
| 3898 | 1.00" | .75" | .31" | .187" |
| 3899 | 1.00" | 1.02" | .41" | .250" |
| 3900 | 1.00" | 1.00" | .52" | .375" |
| 3901 | 1.00" | 1.25" | .67" | .500" |
| 3902 | 1.25" | 1.25" | .77" | .625" |
| 3903 | 1.50" | 1.50" | .94" | .750" |

## HEYCLIP™ ADHESIVE BACKED WIRE CLIPS

- **Secure hold and quick release of bundle.**
- **Mounts on virtually any flat, clean and dry surface.**
- **6 bundle sizes, 2 widths.**

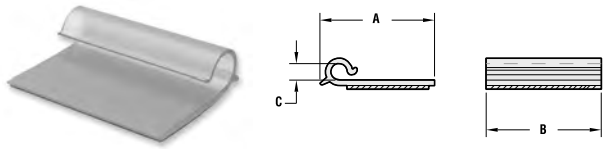



**Material:** Nylon with adhesive backed foam tape

**Flammability Rating:** 94V-2

## HEYCLIP™ "J" STYLE–ADHESIVE BACKED

- **Low-profile design with large adhesive base for greater holding power.**
- **Clear Material.**
- **6 Bundle sizes.**




**Material: PVC with adhesive backed foam tape.**

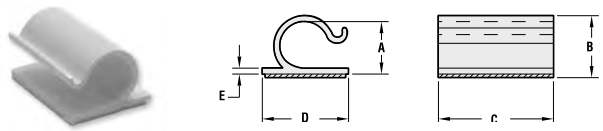
| PART NUMBER | DIMENSIONS | | | MAXIMUM BUNDLE DIAMETER |
|---|---|---|---|---|
| CLEAR | A | B | C | |
| 3839 | 1.00" | 1.00" | .21" | .125" |
| 3840 | 1.00" | 1.25" | .27" | .187" |
| 3841 | 1.00" | 1.50" | .34" | .250" |
| 3842 | 1.25" | 1.75" | .42" | .312" |
| 3843 | 1.25" | 2.00" | .48" | .375" |
| 3844 | 1.25" | 2.25" | .64" | .500" |

**Try this part in your application Please call for samples.**

**800-747-7405**

## HEYCLIP™ "C" STYLE–ADHESIVE BACKED

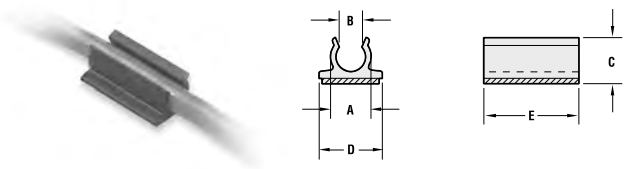
- **"Slide-in" bundle from the side.**
- **Large adhesive base.**




| PART NUMBER | DIMENSIONS | | | | | MAXIMUM BUNDLE DIAMETER |
|---|---|---|---|---|---|---|
| GRAY | A | B | C | D | E | |
| 3794 | .38" | .47" | 1.00" | .75" | .05" | .500" |

## HEYCLIP™ "U" STYLE–ADHESIVE BACKED

- **"Drop-In" bundle from the top.**
- **Compact design, for cable or tubing.**




**Material: PVC with adhesive backed foam tape.**

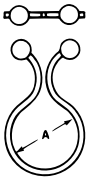
| PART NUMBER | DIMENSIONS | | | | | MAXIMUM BUNDLE DIAMETER |
|---|---|---|---|---|---|---|
| BLACK | A | B | C | D | E | |
| 3792 | .19" | .15" | .27" | .42" | .62" | .250" |





™ HEYCO Products, Inc.

- **Infinitely reusable.**
- **"Twist" action interlocks ball ends.**
- **Can accommodate large bundle diameters.**
- **Won't cut or abrade wires.**



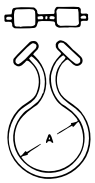

**Material:** Nylon
**Color:** Natural
**Note:** Bundle diameter range reflects a tight bundle

**Style 1**

| STYLE 1 PART NUMBER | BUNDLE DIAMETER RANGE "A" |
|---|---|
| 232-353509-03 | .300" - .350" |
| 232-353509-04 | .400" - .480" |
| 232-353509-07 | .700" - .799" |

## PURSE LOCK™ WIRE TIES





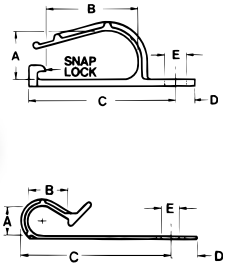

**Style 2**
**"ADDED STRENGTH DESIGN"**

| STYLE 2 PART NUMBER | BUNDLE DIAMETER RANGE "A" |
|---|---|
| 232-353509-09 | .900" - 1.00" |
| 232-353509-11 | 1.00" - 1.19" |
| 232-353509-23 | 2.25" - 2.35" |

## SCREW DOWN CLIPS

- **Can be fastened to a panel with a screw or a plasti-rivet.**



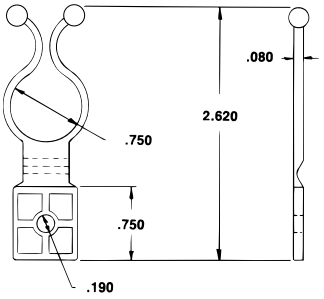



**Style B**

| PART NUMBER | DIMENSIONS | | | | MOUNTING | STYLE |
|---|---|---|---|---|---|---|
| | A | B | C | D | HOLE DIA. "E" | |
| 220-414100-01 | .640" | 1.18" | 1.87" | .250" | .281" | A |
| 220-242400-01 | .375" | .500" | 1.32" | .300" | .157" | B |
| 220-242400-02 | .375" | .500" | 1.32" | .300" | .210" | B |

## STANDOFF PURSE LOCK™ SCREW MOUNT – HINGED

- **Hinged element allows part to lift bundle off of the panel surface based on tension. 90° range.**
- **Easy to open and close purse lock design.**









| PART NUMBER |
|---|
| 232-454600-02 |

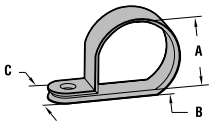
# WIRE MANAGEMENT
## CORD CLIPS – SCREW MOUNT, PUSH STYLE

### NYLON CABLE CLAMPS

NON-CORROSIVE

- For clamping cable or tubing securely into place.
- Resists corrosion, salt water, weak acids, gasoline, alcohol, oil, grease and common solvents.
- Available in halogen free material in selected sizes.






**Material:** Nylon
**Certifications:** cULus #E-54523
**Flammability Rating:** 94V-2

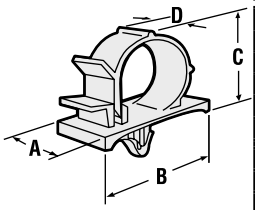
**Note:** These clamps can be installed with many styles of non-corrosive panel fasteners found on pages 248 to 251.

| PART NUMBER | | | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|---|---|
| BLACK | NATURAL | HALOGEN FREE 94V-0 | BUNDLE DIAMETER "A" | THICKNESS "B" | WIDTH "C" | HOLE DIAMETER | SCREW SIZE |
| *LIGHT DUTY* | | | | | | | |
| 3362 | 3312 | ---- | .125" | .050" | .375" | .170" | 8 |
| 3363 | 3313 | ---- | .187" | | | | |
| 3364 | 3314 | ---- | .250" | | | | |
| 3365 | 3315 | ---- | .312" | | | | |
| 3366 | 3316 | ---- | .375" | | | | |
| 3367 | 3317 | ---- | .437" | | | | |
| 3368 | 3318 | ---- | .500" | | | | |
| 3352 | 3302 | 3873 | .125" | | | .203" | 10 |
| 3353 | 3303 | 3874 | .187" | | | | |
| 3354 | 3304 | 3875 | .250" | | | | |
| 3355 | 3305 | 3876 | .312" | | | | |
| 3356 | 3306 | 3877 | .375" | | | | |
| 3357 | 3307 | 3878 | .437" | | | | |
| 3358 | 3308 | 3879 | .500" | | | | |
| *HEAVY DUTY* | | | | | | | |
| 3372 | 3322 | ---- | .125" | .060" | .500" | .203" | 10 |
| 3373 | 3323 | ---- | .187" | | | | |
| 3374 | 3324 | ---- | .250" | | | | |
| 3375 | 3325 | ---- | .312" | | | | |
| 3376 | 3326 | ---- | .375" | | | | |
| 3377 | 3327 | ---- | .437" | | | | |
| 3378 | 3328 | ---- | .500" | | | | |
| 3379 | 3329 | ---- | .562" | | | | |
| 3380 | 3330 | ---- | .625" | | | | |
| 3381 | 3331 | ---- | .687" | | | | |
| 3382 | 3332 | ---- | .750" | | | | |
| 3383 | 3333 | ---- | .812" | | | | |
| 3384 | 3334 | ---- | .875" | | | | |
| 3390 | 3340 | ---- | 1.000" | | | | |
| 3392 | 3342 | ---- | 1.125" | | | | |
| 3393 | 3343 | ---- | 1.187" | | | | |
| 3394 | 3344 | ---- | 1.250" | | | | |
| 3396 | 3346 | ---- | 1.375" | | | | |
| 3398 | 3348 | ---- | 1.500" | | | | |

### HEYCLIP™ SNAP-IN WIRE CLIPS

- Fast Installation.
- Secure hold and quick release of bundle.






**Material:** Nylon
**Flammability Rating:** 94V-2

| PART NUMBER | DIMENSIONS | | | | MAXIMUM BUNDLE DIAMETER | MOUNTING | |
|---|---|---|---|---|---|---|---|
| GRAY | A | B | C | D | | HOLE DIAMETER | PANEL THICKNESS RANGE |
| 3845 | .55" | 1.00" | .39" | .38" | .187" | .250" | .020" - .080" |
| 3846 | .58" | 1.00" | .44" | .41" | .250" | | |
| 3847 | .65" | 1.00" | .53" | .50" | .375" | | |
| 3848 | .77" | 1.19" | .72" | .60" | .500" | | |
| 3849 | .88" | 1.38" | .97" | .67" | .750" | | |
| 3853 | 1.37" | 1.88" | 1.30" | 1.00" | 1.00" | | |
| 3880 | .55" | 1.00" | .39" | .38" | .187" | .250" | .080" - .150" |
| 3881 | .58" | 1.00" | .44" | .41" | .250" | | |
| 3882 | .65" | 1.00" | .53" | .50" | .375" | | |
| 3883 | .77" | 1.19" | .72" | .60" | .500" | | |
| 3884 | .88" | 1.38" | .97" | .67" | .750" | | |
| 3885 | 1.37" | 1.88" | 1.30" | 1.00" | 1.00" | | |





clancey DESIGN DISTRIBUTOR

™ HEYCO Products, Inc.

www.clancey.com • 1-800-747-7405

- **Securely bundles wires and cords.**
- **"Snap-in" design.**
- **Insulates wires and holds them away from panels or moving parts.**

## STANDOFF PURSE LOCK™

INCH

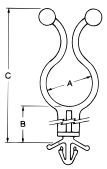
NON-CORROSIVE

| STANDOFF PURSE LOCK PART NUMBER | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|
| | MAXIMUM BUNDLE DIA. "A" | STANDOFF DISTANCE "B" | MAXIMUM INSTALLED HEIGHT "C" | HOLE DIAMETER | PANEL THICKNESS |
| 232-120207-00* | .480" | .187" | 1.287" | .187" | .015" - .090" |
| 232-120207-10 | .480" | .500" | 1.600" | .187" | .015" - .090" |
| 232-120207-20 | .480" | .750" | 1.850" | .187" | .015" - .090" |
| 232-120209-00* | .600" | .187" | 1.437" | .187" | .015" - .090" |
| 232-120209-15 | .600" | .625" | 1.900" | .187" | .015" - .090" |
| 232-120211-00* | .700" | .187" | 1.637" | .187" | .015" - .090" |

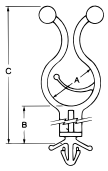
* Modified ball ends.

**Style 2**
**Flexible arm holds, single wires, small bundles, or large bundles**






**Style 1**




**Style 2**
**232-120211-00**
**(Only)**

- **Greater panel range and panel material flexibility.**
- **Securely bundles wires and cords.**

## STANDOFF PURSE LOCK™ WITH CHRISTMAS TREE™ MOUNT

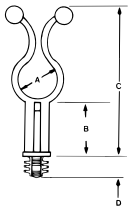
INCH

NON-CORROSIVE

| STANDOFF PURSE LOCK CHRISTMAS TREE STYLE | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|
| | MAXIMUM BUNDLE DIA. "A" | STANDOFF DISTANCE "B" | MAXIMUM INSTALLED HEIGHT "C" | HOLE DIAMETER | PANEL THICKNESS |
| 232-160607-00 | .480" | .125" | 1.226" | .250" | .055" - .250" |
| 232-160609-00 | .600" | .125" | 1.403" | .250" | .055" - .250" |
| 232-160609-30 | .600" | .937" | 2.215" | .250" | .055" - .250" |
| 1918-00* | 1.20" | .250" | 2.153" | .318" | .055" - .250" |

* Modified ball ends.





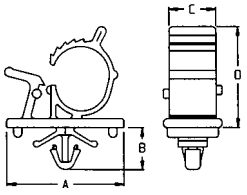

- **Adjustable ratcheting clip "squeezes" the bundle.**
- **Re-opens for adjustment/changes.**
- **Positive locking. Excellent for high vibration.**

## SNAP-IN CLIP ADJUSTABLE BUNDLE

INCH

NON-CORROSIVE

| SNAP-IN CLIP PART NUMBER | DIMENSIONS | | | | | MOUNTING | |
|---|---|---|---|---|---|---|---|
| | MAXIMUM BUNDLE DIAMETER | A | B | C | D | HOLE DIAMETER | PANEL THICKNESS |
| 1925-00 | .406" | 1.00" | .368" | .400" | .872" | .187" | .030" - .060" |
| 1927-00 | .575" | 1.02" | .370" | .400" | .990" | .250" | .030" - .060" |




- **Fast installation into wide panel range.**
- **Re-opens for adjustment/changes.**
- **Positive locking. Excellent for high vibration.**

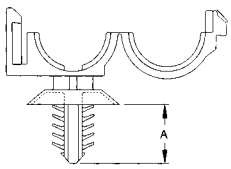
## SNAP-IN CLIP WITH CHRISTMAS TREE™ MOUNT

INCH

NON-CORROSIVE

| SNAP-IN CLIP PART NUMBER | DIMENSIONS | | MOUNTING | |
|---|---|---|---|---|
| | MAXIMUM BUNDLE DIAMETER | PRONG LENGTH "A" | HOLE DIAMETER | PANEL THICKNESS |
| 1908-00 | .472" | .410" | .250" | .020" - .197" |
| 1903-00 | .350" | .433" | .256" | .022" - .200" |






**Note:** Listed dimensions are nominal

**Material:** (all items)
Nylon, natural or black.

™ ITW Fastex

# WIRE MANAGEMENT
## CORD CLIPS – PUSH-IN

### TOP OPENING

- **Allows maximum versatility for installation and bundle changes.**

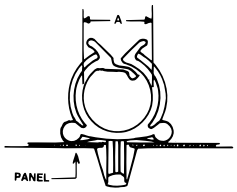
### SNAP-IN CLIPS

INCH

NON-CORROSIVE

| PART NUMBER | MAXIMUM BUNDLE DIAMETER "A" | MOUNTING | |
|---|---|---|---|
| | | HOLE DIAMETER | PANEL THICKNESS |
| 220-404000-01 | .620" | .250" | .030" - .060" |
| 220-646400-02 | 1.00" | .250" | .030" - .060" |
| 220-646400-03* | 1.38" | .250" | .075" |
| 220-646400-04 | 1.50" | .250" | .075" |
| 220-011005-00 | 1.00" | .250" | .030" - .125" |
| 220-011006-00 | .620" | .250" | .030" - .060" |
| 220-011008-00 | .500" | .250" | .030" - .125" |

* Offset Prong



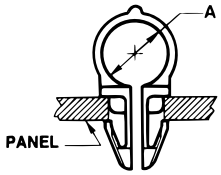


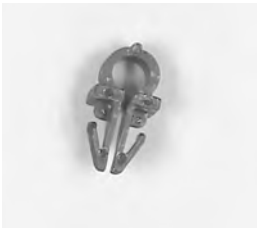

### BOTTOM OPENING

- **Captures the wire bundle (no escape).**
- **Load wire bundle, then insert the clip into the panel.**

| PART NUMBER | MAXIMUM BUNDLE DIAMETER "A" | MOUNTING | |
|---|---|---|---|
| | | HOLE DIAMETER | PANEL THICKNESS |
| 220-242400-09 | .250" | .250" | .030" - .125" |
| 220-242400-04 | .375" | .250" | .030" - .125" |
| 220-242400-06 | .500" | .250" | .030" - .125" |
| 220-242400-11* | .750" | .250" | .030" - .125" |
| 220-242400-07 | .750" | .250" | .030" - .125" |

* High strength model



### SNAP-IN CLIPS VARIOUS STYLES

INCH

NON-CORROSIVE

- **Quick insertion in to the panel.**
- **Wide variety of styles and bundle diameters.**

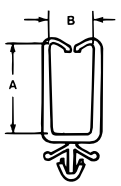
**Try this part in your application Please call for samples.**

**800-747-7405**

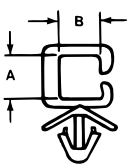
| PART NUMBER | BUNDLE AREA | | MOUNTING | | REFERENCE DRAWING |
|---|---|---|---|---|---|
| | A | B | HOLE DIA. | PANEL THICKNESS | |
| 220-041600-00 | .255" | .430" | .187" | .040" - .060" | A |
| 220-120212-00 | .515" | .432" | .187" | .015" - .094" | |
| 220-031212-06 | .515" | .750" | .187" | .015" - .070" | |
| 220-120216-00 | .875" | .385" | .187" | .015" - .094" | |
| 220-031212-05 | 1.186" | .478" | .187" | .015" - .070" | |
| 220-161213-00 | .095" | .390" | .296" | .068" - .114" | B |
| 220-031212-03 | .515" | .437" | .187" | .015" - .070" | |
| 354-156009-00* | .110" | .327" | .156" | .040" - .160" | C |
| 220-031212-02 | .281" | .287" | .187" | .015" - .070" | |
| 1916-00 | 1.072" | .750" | .190" | .040" - .070" | D |
| 220-121200-00 | .280" | .400" | .250" | .125" - .180" | E |
| 220-424200-05 | .480" | 1.462" | .250" | .035" - .140" | F |

**Note: Illustrations are general representations of the parts shapes. Please call for samples or a drawing of the part you desire.**

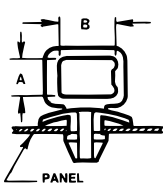
**A**



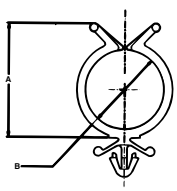

**B**



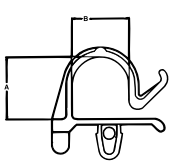

**C**



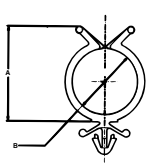

**D**




**E**



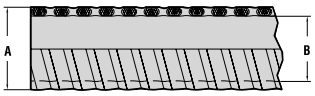

**F**



- **Crush, pull and tamper resistant.**
- **Resists corrosion, abrasion, oil, water, acid, metal shavings, and rough environments.**
- **Smooth inside diameter for easy wire pulling.**
- **Approved for direct burial, submersible to 70 PSI.**

| TRADE SIZE | Heyco-Flex I PART NUMBER | OUTSIDE DIAMETER "A" | INSIDE DIAMETER "B" |
|---|---|---|---|
| 3/8" | 8430 | .700" (17.8mm) | .494" (12.5mm) |
| 1/2" | 8431 | .830" (21.2mm) | .632" (16.1mm) |
| 3/4" | 8432 | 1.04" (26.4mm) | .830" (21.1mm) |
| 1" | 8433 | 1.30" (33.1mm) | 1.05" (26.8mm) |
| 1 1/4" | 8434 | 1.65" (41.8mm) | 1.40" (35.4mm) |
| 1 1/2" | 8435 | 1.88" (47.8mm) | 1.59" (40.3mm) |
| 2" | 8436 | 2.36" (59.9mm) | 2.03" (51.6mm) |

## HEYCO-FLEX™ I LIQUID TIGHT CONDUIT





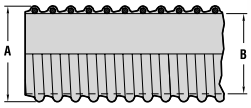


**Material:** PVC
**Color:** Gray
**Flammability Rating:** VW1
**Certifications:** UL #E-121095
CSA # LL-84578

- **Flexible construction, excellent for high vibration or flexing applications.**
- **Resists corrosion, oil and water.**
- **Smooth inside diameter for easy wire pulling.**
- **Submersible to 70 PSI.**

| TRADE SIZE | Heyco-Flex II PART NUMBER | OUTSIDE DIAMETER "A" | INSIDE DIAMETER "B" |
|---|---|---|---|
| 1/4" | 8449 | .568" (14.4mm) | .395" (10.0mm) |
| 3/8" | 8450 | .700" (17.8mm) | .494" (12.5mm) |
| 1/2" | 8451 | .830" (21.2mm) | .632" (16.1mm) |
| 3/4" | 8452 | 1.04" (26.4mm) | .830" (21.1mm) |
| 1" | 8453 | 1.30" (33.1mm) | 1.05" (26.8mm) |
| 1 1/4" | 8454 | 1.65" (41.8mm) | 1.40" (35.4mm) |
| 1 1/2" | 8455 | 1.88" (47.8mm) | 1.59" (40.3mm) |
| 2" | 8456 | 2.36" (59.9mm) | 2.03" (51.6mm) |

## HEYCO™ II LIQUID TIGHT TUBING






**Material:** PVC
**Color:** Black
**Flammability Rating:** VW1
**Certifications:** UL #E-121095
CSA # LL-84578



Try this part in your application
Please call for samples.
800-747-7405

**Heyco-Flex I & II can be used with Heyco Liquid Tight Connectors (pages 313 to 317), and Standard Mounting Brackets on page 312 as shown.**

**Cutting tool:**
**Part Number 8340**

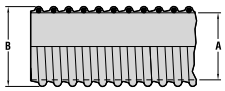




™ HEYCO Products, Inc.

## HEYCO-FLEX™ VI LIGHT DUTY EQUIPMENT HOSE



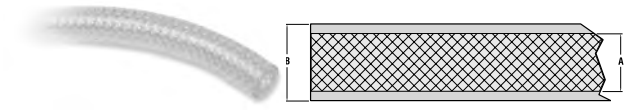



- **Suitable for light duty drainage, air, vacuum gravity feed and other equipment applications.**
- **Extremely flexible design.**

| Heyco-Flex VI PART NUMBER | INSIDE DIAMETER "A" | OUTSIDE DIAMETER "B" |
|---|---|---|
| 8399 | .375" (9.5mm) | .563" (14.3mm) |
| 8440 | .500" (12.7mm) | .688" (17.5mm) |
| 8441 | .625" (15.9mm) | .813" (20.7mm) |
| 8442 | .750" (19.1mm) | .969" (24.6mm) |
| 8443 | 1.00" (25.4mm) | 1.25" (31.8mm") |
| 8444 | 1.25" (31.8mm) | 1.50" (38.1mm) |
| 8445 | 1.50" (38.1mm) | 1.81" (46.0mm) |
| 8446 | 2.00" (50.8mm) | 2.38" (60.5mm) |

**Size Range:** 3/8" through 2"
**Material:** PVC
**Color:** Clear with white helix

## HEYCO-FLEX™ VII BRAIDED TUBING



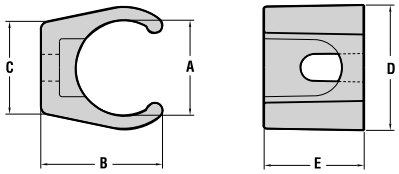

- **For use in industrial applications: factory air lines, automation machinery, pneumatic lines and water mains/feeds.**
- **Suitable for high working pressure under harsh conditions.**
- **For use with barb style hose connectors.**

| Heyco-Flex VII PART NUMBER | INSIDE DIAMETER "A" | OUTSIDE DIAMETER "B" |
|---|---|---|
| 8361 | .180" (4.6mm) | .410" (10.4mm) |
| 8362 | .250" (6.4mm) | .440" (11.2mm) |
| 8363 | .310" (7.9mm) | .490" (12.4mm) |
| 8364 | .375" (9.5mm) | .590" (15.0mm) |
| 8365 | .500" (12.7mm) | .750" (19.1mm) |
| 8366 | .625" (15.9mm) | .875" (22.2mm) |
| 8367 | .750" (19.1mm) | 1.02" (25.9mm) |
| 8368 | 1.00" (25.4mm) | 1.30" (33.0mm) |
| 8369 | 1.25" (31.8mm) | 1.63" (41.4mm) |
| 8370 | 1.50" (38.1mm) | 1.93" (49.0mm) |
| 8371 | 2.00" (50.8mm) | 2.50" (63.5mm) |

**Size Range:** 3/16" through 2"
**Material:** Reinforced PVC
**Color:** Clear with braiding

## STANDARD MOUNTING BRACKETS






Dimensions excluding draft.

- **Used to position standard size conduit, tubing and hose.**

| FITS CONDUIT TRADE SIZE | Heyco-Flex Mounting Brackets | DIMENSIONS | | | | |
|---|---|---|---|---|---|---|
| | BLACK | A | B | C | D | E |
| 3/8" | 1025 | .71" | .91" | .69" | .91" | .75" |
| 1/2" | 1027 | .84" | 1.07" | .70" | 1.05" | .75" |
| 3/4" | 1029 | 1.05" | 1.26" | .73" | 1.26" | .75" |
| 1" | 1031 | 1.32" | 1.51" | .89" | 1.52" | .75" |

**Material:** Nylon
**Flammability rating:** 94V-2





clancey DESIGN DISTRIBUTOR

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**For use with Heyco Brand and other non-metallic liquid tight conduit and tubing.**

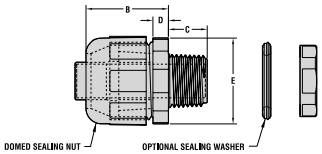
- **Resistant to salt water, weak acids, gasoline, oil, alcohol, grease and common solvents. (nylon parts).**
- **Use provided locknut or thread into NPT hole.**
- **No disassembly required.**
- **Use of sealing washer may be required for wet applications.**

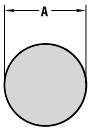
## HEYCO-FLEX™ STRAIGHT CONNECTORS - THREADED

**Size range 1/4" – 2"**



| FITS CONDUIT TRADE SIZE | Heyco-Flex Straight Connector PART NUMBER | | DIMENSIONS | | | | MOUNTING | SEALING WASHER PART NUMBER |
|---|---|---|---|---|---|---|---|---|
| | BLACK | GRAY | MAXIMUM LENGTH "B" | THREAD LENGTH "C" | WRENCHING NUT THICKNESS "D" | WRENCHING FLATS "E" | CLEARANCE HOLE "A" | |
| 1/4" | 8398 | ---- | 1.13" (28.7mm) | .440" (11.2mm) | .218" (5.5mm) | .87" (22.1mm) | .492" (12.5mm) | 3258 |
| 3/8" | 8400 | 8401 | 1.33" (33.8mm) | .625" (15.9mm) | .250" (6.3mm) | 1.30" (33mm) | .875" (22.2mm) | 3260 |
| 1/2" | 8402 | 8403 | 1.33" (33.8mm) | .625" (15.9mm) | .250" (6.3mm) | 1.30" (33mm) | .875" (22.2mm) | 3260 |
| 3/4" | 8404 | 8405 | 1.41" (35.8mm) | .625" (15.9mm) | .250" (6.3mm) | 1.52" (38.6mm) | 1.109" (28.2mm) | 3261 |
| 1" | 8406 | 8407 | 1.47" (37.3mm) | .781" (19.8mm) | .250" (6.3mm) | 1.875" (47.6mm) | 1.375" (35mm) | 3262 |
| 1 1/4" | 8638* | 8639* | 2.12" (53.8mm) | .715" (18.2mm) | .250" (6.3mm) | ---- | 1.688" (42.9mm) | ---- |
| 1 1/2" | 8640* | 8641* | 2.42" (61.5mm) | .680" (17.3mm) | .250" (6.3mm) | ---- | 1.938" (49.2mm) | ---- |
| 2" | 8642* | 8643* | 2.49" (63.2mm) | .680" (17.3mm) | .250" (6.3mm) | ---- | 2.375" (60.3mm) | ---- |




SUGGESTED CLEARANCE HOLE FOR NON-THREADED MOUNTING

* Not registered to listed certifications.

**Note:**
**Black parts – Black Nylon Locknut**
**Gray parts – O-Ring and Metal Locknuts**

**Material:** **(1/4" – 1") Nylon**
**(1 1/4" – 2") PVC**

**Flammability Rating:** **94V-2 (Nylon only)**

**Certifications:** **#E-28430**
**# LR-84579**
**and #LR-81067**

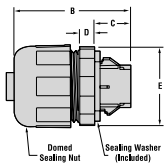
- **Easy to assemble, simply "snap-in" to panel hole.**
- **Resistant to salt water, weak acids, gasoline, oil, alcohol, grease and common solvents.**
- **No disassembly required.**
- **Suitable for indoor or outdoor use.**

## HEYCO-FLEX™ STRAIGHT CONNECTORS - SNAP-IN

**Size range 1/4" – 1"**



| FITS CONDUIT TRADE SIZE | Heyco-Flex "Snap-In" Connector PART NUMBER | DIMENSIONS | | | | MOUNTING | |
|---|---|---|---|---|---|---|---|
| | BLACK | MAXIMUM LENGTH "B" | BODY LENGTH "C" | WRENCHING NUT THICKNESS "D" | WRENCHING FLATS "E" | MOUNTING HOLE DIAMETER "A" | PANEL THICKNESS |
| 1/4" | 8382* | 1.50" (38.1mm) | .500" (12.7mm) | .218" (5.5mm) | .87" (22.1mm) | .500" (12.7mm) | .032" - .125" (.8mm - 3.2mm) |
| 3/8" | 8384 | 2.00" (50.8mm) | .625" (15.9mm) | .250" (6.3mm) | 1.33" (33.7mm) | .875" (22.2mm) | .032" - .125" (.8mm - 3.2mm) |
| 1/2" | 8386 | 2.00" (50.8mm) | .625" (15.9mm) | .250" (6.3mm) | 1.33" (33.7mm) | .875" (22.2mm) | .032" - .125" (.8mm - 3.2mm) |
| 3/4" | 8338 | 2.03" (51.6mm) | .625" (15.9mm) | .250" (6.3mm) | 1.56" (39.7mm) | 1.090 (27.7mm) | .032" - .125" (.8mm - 3.2mm) |
| 1" | 8390 | 2.25" (57.1mm) | .781" (19.8mm) | .250" (6.3mm) | 1.81" (46.0mm) | 1.375" (35mm) | .032" - .125" (.8mm - 3.2mm) |




only. file # E-121095.

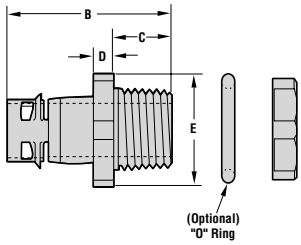
**Material:** **Nylon**
**Flammability Rating:** **94V-2**

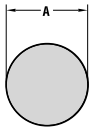
**Certifications:** **#E-28430**
**# LR-84579**
**and #LR-81067**

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## HEYCO-FLEX™ III STRAIGHT CONNECTOR






SUGGESTED CLEARANCE HOLE FOR NON-THREADED MOUNTING

**Size range 1/4" – 1"**

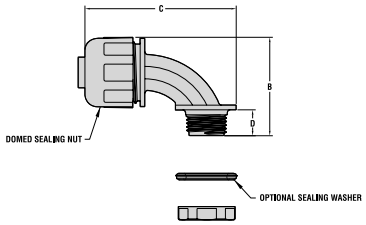
- **Easy permanent assembly: push tubing over ferrule until tubing "clicks" in place.**
- **For use in wet or dry locations.**
- **Low-profile, clean appearance.**
- **Optional "O"-ring, yields a liquid tight system.**

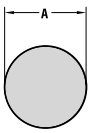
| FITS CONDUIT TRADE SIZE | Heyco-Flex III Straight Connector PART NUMBER | | PRIMARY DIMENSIONS | | | MOUNTING | | O-RING PART NUMBER |
|---|---|---|---|---|---|---|---|---|
| | BLACK 94V-2 | HALOGEN FREE BLACK 94V-0 | MAXIMUM LENGTH "B" | BODY THREAD LENGTH "C" | WRENCHING NUT THICKNESS "D" | CLEARANCE HOLE "A" | THREADED HOLE | |
| 1/4" | 9140 | 8469 | 1.54" (39.1mm) | .44" (11.3mm) | .20" (5.1mm) | .492" (12.5mm) | PG-7 | 1983 |
| 3/8" | 9146 | 8470 | 1.72" (43.7mm) | .62" (15.9mm) | .20" (5.1mm) | .875" (22.2mm) | 1/2" NPT | 1995 |
| 1/2" | 9147 | 8471 | 1.72" (43.7mm) | .62" (15.9mm) | .20" (5.1mm) | .875" (22.2mm) | 1/2" NPT | 1995 |
| 3/4" | 9148 | 8472 | 1.84" (46.7mm) | .62" (15.9mm) | .20" (5.1mm) | 1.109" (28.2mm) | 3/4" NPT | 1996 |
| 1" | 9149 | 8473 | 1.99" (50.5mm) | .78" 19.8mm) | .20" (5.1mm) | 1.375" (35mm) | 1" NPT | 1997 |

**Material:** Nylon
**Flammability Rating:** See chart above.
**Certifications:** # E121095, # LR-84579 (halogen free only)

## HEYCO-FLEX™ SWEEP CONNECTOR - THREADED






SUGGESTED CLEARANCE HOLE FOR NON-THREADED MOUNTING

**Size range 3/8" – 2"**

- **Smooth internal surfaces for easier wire installation around corner angles.**
- **Use provided locknut, or thread into NPT hole.**
- **No disassembly required.**
- **Use of sealing washer may be required for wet applications.**

| FITS CONDUIT TRADE SIZE | Heyco-Flex Sweep Connector PART NUMBER | | DIMENSIONS | | | MOUNTING | | SEALING WASHER PART NUMBER |
|---|---|---|---|---|---|---|---|---|
| | BLACK | GRAY | MAXIMUM HEIGHT "B" | MAXIMUM LENGTH "C" | THREAD LENGTH "D" | CLEARANCE HOLE "A" | THREADED HOLE | |
| 3/8" | 8423 | 8424 | 1.98" (50.3mm) | 2.91" (73.9mm) | .52" (13.2mm) | .875" (22.2mm) | 1/2" NPT | 3260 |
| 1/2" | 8425 | 8426 | 1.98" (50.3mm) | 2.91" (73.9mm) | .52" (13.2mm) | .875" (22.2mm) | 1/2" NPT | 3260 |
| 3/4" | 8427 | 8428 | 2.29" (58.2mm) | 3.17" (80.5mm) | .52" (13.2mm) | 1.109" (28.2mm) | 3/4" NPT | 3261 |
| 1" | 8412 | 8413 | 2.83" (71.9mm) | 3.96" (100.6mm) | .69" (17.5mm) | 1.375" (35mm) | 1" NPT | 3262 |
| 1 1/4" | 8652* | 8653* | 4.35" (110.5mm) | 4.71" (119.6mm) | .64" (16.3mm) | 1.688" (42.9mm) | 1 1/4" NPT | ---- |
| 1 1/2" | 8654* | 8655* | 4.46" (113.3mm) | 4.69" (119.1mm) | .66" (16.8mm) | 1.938" (49.2mm) | 1 1/2" NPT | ---- |
| 2" | 8656* | 8657* | 4.87" (123.7mm) | 5.31" (134.9mm) | .67" (17.0mm) | 2.375" (60.3mm) | 2" NPT | ---- |

* Not registered to listed certifications.

**Material:** (3/8" – 1 ") Nylon
(1 1/4 – 2 ") PVC
**Flammability Rating:** 94V-2

**Certifications:** #E-28430
# LR-84579
and #LR-81067





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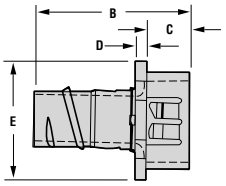
- **UL approved when used with Heyco-Flex™ II tubing.**
- **Low piece part and installed cost.**
- **One piece design with smooth internal surfaces for easy wire routing.**
- **No tools required.**

## "QUICK TWIST" CONNECTOR STRAIGHT, SNAP-IN

**Size range 1/4" – 1"**



| FITS CONDUIT TRADE SIZE | "Quick Twist" Connector Straight - "Snap-In" Style PART NUMBER | | DIMENSIONS | | | | MOUNTING | |
|---|---|---|---|---|---|---|---|---|
| | BLACK | GRAY | OVERALL LENGTH "B" | BODY LENGTH "C" | WRENCHING NUT "D" | WRENCHING FLATS "E" | MOUNTING HOLE DIAMETER "A" | PANEL THICKNESS |
| 1/4" | 8515 | 8516 | 1.33" (33.8mm) | .344" (8.7mm) | .090" (2.3mm) | .750" (19mm) | .540" (13.7mm) | .045" - .140" (1.1mm - 3.6mm) |
| 3/8" | 8485 | 8486 | 1.38" (35mm) | .391" (9.9mm) | .090" (2.3mm) | 1.00" (25.4mm) | .875" (22.2mm) | .045" - .140" (1.1mm - 3.6mm) |
| 1/2" | 8490 | 8491 | 1.38" (35mm) | .391" (9.9mm) | .090" (2.3mm) | 1.00" (25.4mm) | .875" (22.2mm) | .045" - .140" (1.1mm - 3.6mm) |
| 3/4" | 8495 | 8496 | 1.50" (38mm) | .390" (9.9mm) | .090" (2.3mm) | 1.25" (31.8mm) | 1.09" (27.8mm) | .045" - .140" (1.1mm - 3.6mm) |




**Material:** Nylon
**Flammability Rating:** 94V-2

**Certifications:** #E121095

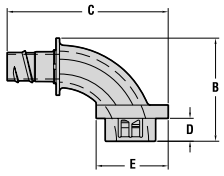
- **UL approved when used with Heyco-Flex™ II tubing**
- **Low piece part and installed cost.**
- **One piece design with smooth internal surfaces for easy wire routing around corners.**
- **No tools required.**

## "QUICK TWIST" CONNECTOR SWEEP, SNAP-IN

**Size range 3/8" – 3/4"**



| FITS CONDUIT TRADE SIZE | "Quick Twist" Connector Sweep - "Snap-In" Style PART NUMBER | | DIMENSIONS | | | | MOUNTING | |
|---|---|---|---|---|---|---|---|---|
| | BLACK | GRAY | MAXIMM HEIGHT "B" | MAXIMUM LENGTH "C" | BODY LENGTH "D" | FLANGE DIAMETER "E" | MOUNTING HOLE DIAMETER | PANEL THICKNESS |
| 3/8" | 8500 | 8501 | 1.75" (44.6mm) | 2.75" (69.8mm) | .390" (9.9mm) | 1.23" (31.2mm) | .875" (22.2mm) | .045" - .140" (1.1mm - 3.6mm) |
| 1/2" | 8505 | 8506 | 1.75" (44.6mm) | 2.75" (69.8mm) | .390" (9.9mm) | 1.23" (31.2mm) | .875" (22.2mm) | .045" - .140" (1.1mm - 3.6mm) |
| 3/4" | 8510 | 8511 | 1.97" (50mm) | 3.08" (78.3mm) | .390" (9.9mm) | 1.50" (38.1mm) | 1.09" (27.8mm) | .045" - .140" (1.1mm - 3.6mm) |




**Material:** Nylon
**Flammability Rating:** 94V-2

**Certifications:** #E121095

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**Accessories – Finishing Collars (Black or Gray) All Quick Twist Models**



**To Order: Add suffix "FC" to any "Quick Twist" series part number**

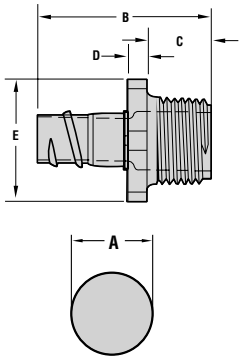
**Note: Not available in 1/4" size**



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## "QUICK TWIST" CONNECTOR STRAIGHT, THREADED






SUGGESTED CLEARANCE HOLE FOR NON-THREADED MOUNTING

**Size Range**
**1/4" – 3/4"**

- **UL approved with Heyco-Flex™ I conduit.**
- **Installs in NPT threaded hole or through clearance hole with locknut (order separately) .**
- **All nylon construction resists salt water, weak acids, gasoline, oil grease and common solvents.**
- **Easy permanent assembly by "twisting" tubing on to the connector.**

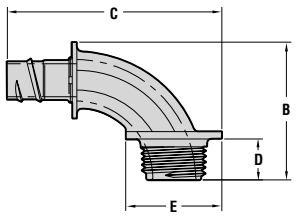
| FITS CONDUIT TRADE SIZE | "Quick Twist" Connector Straight - NPT Threaded PART NUMBER | | DIMENSIONS | | | | MOUNTING | |
|---|---|---|---|---|---|---|---|---|
| | BLACK | GRAY | MAXIMUM LENGTH "B" | THREAD LENGTH "C" | WRENCHING NUT "D" | WRENCHING FLATS "E" | CLEARANCE HOLE DIAMETER | THREADED HOLE |
| 1/4" | 8517 | 8518 | 1.56" (39.6mm) | .465" (11.8mm) | .200" (5.1mm) | .750" (19mm) | ---- | 1/4-NPT-90R |
| 3/8" | 8487 | 8488 | 1.72" (44.6mm) | .625" (15.9mm) | .200" (5.1mm) | 1.18" (30mm) | .875" (22.2mm) | 3/8-NPT-90R |
| 1/2" | 8493 | 8494 | 1.72" (44.6mm) | .625" (15.9mm) | .200" (5.1mm) | 1.18" (30mm) | .875" (22.2mm) | 1/2-NPT-90R |
| 3/4" | 8497 | 8498 | 1.84" (46.7mm) | .625" (15.9mm) | .200" (5.1mm) | 1.37" (34.8mm) | 1.109" (28.2mm) | 3/4-NPT-90R |

**Material:** Nylon
**Flammability Rating:** 94-V

**Certifications:** UL #E28430

## "QUICK TWIST" CONNECTOR SWEEP, THREADED






**Size Range**
**3/8" – 3/4"**

- **UL approved with Heyco-Flex™ I conduit.**
- **Installs in NPT threaded hole or through clearance hole with locknut (order separately) .**
- **All nylon construction resists salt water, weak acids, gasoline, oil grease and common solvents.**
- **Easy permanent assembly by "twisting" tubing on to the connector.**

| FITS CONDUIT TRADE SIZE | "Quick Twist" Connector Sweep - NPT Threaded PART NUMBER | | DIMENSIONS | | | | MOUNTING | |
|---|---|---|---|---|---|---|---|---|
| | BLACK | GRAY | MAXIMUM HEIGHT "B" | MAXIMUM LENGTH "C" | THREAD LENGTH "D" | FLANGE DIAMETER "E" | CLEARANCE HOLE DIAMETER | THREADED HOLE |
| 3/8" | 8502 | 8503 | 1.75" (44.6mm) | 2.75" (69.8mm) | .521" (13.2mm) | 1.23" (31.2mm) | .875" (22.2mm) | 3/8-NPT-90R |
| 1/2" | 8507 | 8508 | 1.75" (44.6mm) | 2.75" (69.8mm) | .521" (13.2mm) | 1.23" (31.2mm) | .875" (22.2mm) | 1/2-NPT-90R |
| 3/4" | 8512 | 8513 | 2.11" (53.5mm) | 3.09" (78.3mm) | .530" (13.5mm) | 1.50" (38.1mm) | 1.109" (28.2mm) | 3/4-NPT-90R |

**Material:** Nylon
**Flammability Rating:** 94-V

**Certifications:** UL #E28430

**Locknuts:**
**Order separately for clearance hole applications.**



| THREAD TYPE AND SIZE | BLACK | GRAY |
|---|---|---|
| 3/8 NPT | 8461 | 8462 |
| 1/2 NPT | 8463 | 8464 |
| 3/4 NPT | 8465 | 8466 |





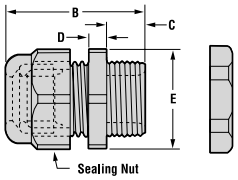
™ HEYCO Products, Inc.

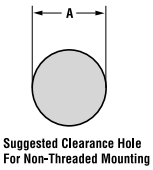
- **For liquid tight passage of cable or tubing.**
- **Suitable for NEMA 4 and NEMA 6 enclosures.**

## LIQUID TIGHT STRAIGHT-THRU FITTINGS

| CABLE DIAMETER RANGE | Liquid Tight Straight-Thru Fittings PART NUMBER | | DIMENSIONS | | | | MOUNTING | |
|---|---|---|---|---|---|---|---|---|
| | BLACK | GRAY | MAXIMUM LENGTH "B" | THREAD LENGTH "C" | WRENCHING NUT THICKNESS "D" | WRENCHING FLATS "E" | CLEARANCE HOLE "A" | DIRECT THREAD SIZE |
| *PG HUB THREADING (LOCKNUT INCLUDED)* | | | | | | | | |
| .064" - .210" | 3444 | 3445 | 1.17" | .33" | .20" | .59" | .492" | PG 7 |
| .114" - .250" | 3207 | 3208 | 1.17" | .33" | .20" | .59" | .492" | |
| .069" - .187" | 3446 | 3447 | 1.30" | .34" | .20" | .75" | .599" | PG 9 |
| .181" - .312" | 3210 | 3211 | 1.30" | .34" | .20" | .75" | .599" | |
| .069" - .250" | 3448 | 3449 | 1.46" | .39" | .20" | .86" | .733" | PG 11 |
| .230" - .395" | 3213 | 3214 | 1.46" | .39" | .20" | .86" | .733" | |
| .170" - .470" | 3216 | 3217 | 1.53" | .41" | .20" | .95" | .804" | PG 13.5 |
| .230" - .547" | 3219 | 3220 | 1.66" | .45" | .23" | 1.05" | .886" | PG 16 |
| .250" - .490" | 3454 | 3455 | 1.87" | .52" | .23" | 1.30" | 1.115" | PG 21 |
| .450" - .709" | 3222 | 3223 | 1.87" | .52" | .23" | 1.30" | 1.115" | |
| .590" - 1.00" | 3225 | 3226 | 2.23" | .59" | .28" | 1.66" | 1.470" | PG 29 |
| .787" - 1.02" | M3206 | M3205 | 2.52" | .51" | .32" | 2.09" | 1.850" | PG 36 |
| .875" - 1.26" | M3204 | M3203 | 2.52" | .51" | .32" | 2.09" | 1.850" | |
| .984" - 1.22" | 3218 | ---- | 2.64" | .51" | .36" | 2.36" | 2.125" | PG 42 |
| 1.26" - 1.50" | 3212 | ---- | 2.64" | .51" | .36" | 2.36" | 2.125" | |
| 1.14" - 1.38" | 3283 | ---- | 2.72" | .55" | .36" | 2.56" | 2.335" | PG 48 |
| 1.48" - 1.73" | 3281 | ---- | 2.72" | .55" | .36" | 2.56" | 2.335" | |
| *NPT HUB THREADING (ORDER LOCKNUT FOR PANEL MOUNTING - SEE BELOW)* | | | | | | | | |
| .065" - .210" | M4514 | M4515 | 1.28" | .45" | .21" | .63" | .540" | 1/4 NPT |
| .115" - .250" | M4516 | M4517 | 1.28" | .45" | .21" | .63" | .540" | |
| .069" - .187" | 3458 | 3459 | 1.49" | .53" | .20" | .75" | .670" | 3/8 NPT |
| .181" - .312" | 3228 | 3229 | 1.49" | .53" | .20" | .75" | .670" | |
| .170" - .470" | 3231 | 3232 | 1.72" | .62" | .20" | .95" | .875" | 1/2 NPT |
| .230" - .547" | 3200 | 3201 | 1.83" | .62" | .23" | 1.05" | .875" | |
| .250" - .485" | 3460 | 3461 | 1.97" | .63" | .23" | 1.30" | 1.068" | 3/4 NPT |
| .450" - .709" | 3234 | 3235 | 1.97" | .63" | .23" | 1.30" | 1.068" | |
| .472" - 787" | 8439 | 3227 | 2.42" | .75" | .28" | 1.65" | 1.375" | 1 NPT |
| .590" - 1.00" | 8437 | 8438 | 2.42" | .75" | .28" | 1.65" | 1.375" | |
| .787" - 1.02" | M4522 | M4523 | 2.69" | .78" | .30" | 2.05" | 1.680" | 1 1/4 NPT |
| .875" - 1.26" | M4524 | M4525 | 2.69" | .78" | .30" | 2.05" | 1.680" | |
| *METRIC HUB THREADING (LOCKNUT INCLUDED)* | | | | | | | | |
| 1.7mm-5.6mm | M4330 | M4331 | 29.5mm | 8.1mm | 5.3mm | 16mm | 12mm | M12 |
| 2.9mm-6.4mm | M4332 | M4333 | 29.5mm | 8.1mm | 5.3mm | 16mm | 12mm | |
| 1.7mm-4.7mm | M4334 | M4335 | 31.8mm | 8.1mm | 5.3mm | 21mm | 16mm | M16 |
| 2.7mm-7.9mm | M4336 | M4337 | 31.8mm | 8.1mm | 5.3mm | 21mm | 16mm | |
| 2.4mm-6.6mm | M4338 | M4339 | 37.8mm | 10.4mm | 5.3mm | 24.9mm | 20mm | M20 |
| 4.3mm-11.9mm | M4340 | M4341 | 37.8mm | 10.4mm | 5.3mm | 24.9mm | 20mm | |
| 6.4mm-12.3mm | M4342 | M4343 | 48mm | 13.2mm | 6.4mm | 33mm | 25mm | M24 |
| 12.3mm-18mm | M4344 | M4345 | 48mm | 13.2mm | 6.4mm | 33mm | 25mm | |
| 12.4mm-20mm | M4346 | M4347 | 56.6mm | 14.7mm | 7.6mm | 43.9mm | 32mm | M32 |
| 15mm-25.4mm | M4348 | M4349 | 56.6mm | 14.7mm | 7.6mm | 43.9mm | 32mm | |
| 20mm-25.9mm | M4350 | M4351 | 60.7mm | 12.2mm | 7.6mm | 52.1mm | 40mm | M40 |
| 22mm-32mm | M4352 | M4353 | 60.7mm | 12.2mm | 7.6mm | 52.1mm | 40mm | |




Suggested Clearance Hole
For Non-Threaded Mounting

- **Use fitting with the smallest maximum diameter for best results.**

**Material:** Nylon with TPE Gland

**Color:** Black, Gray

**Certifications:**
- (UL) #E 51579 (shaded)
- (UL) #E 51579 (non-shaded)
- (CSA) # LR-93876 (all)

**Locknuts:**

**Order separately for NPT Hub parts, if a lockout is desired.**

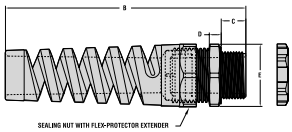


| THREAD TYPE AND SIZE | BLACK | GRAY |
|---|---|---|
| 3/8 NPT | 8461 | 8462 |
| 1/2 NPT | 8463 | 8464 |
| 3/4 NPT | 8465 | 8466 |
| 1 NPT | 8467 | 8468 |

## LIQUID TIGHT PIGTAIL™ FITTINGS

- **Flexible "Pigtail" extender prevents sharp bends; extends cable life.**
- **Suitable for NEMA 4 and NEMA 6 enclosures.**



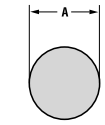

| CABLE DIAMETER RANGE | Liquid Tight Pigtail Fittings PART NUMBER | | DIMENSIONS | | | | MOUNTING | |
|---|---|---|---|---|---|---|---|---|
| | BLACK | GRAY | MAXIMUM LENGTH "B" | THREAD LENGTH "C" | WRENCHING NUT THICKNESS "D" | WRENCHING FLATS "E" | CLEARANCE HOLE "A" | DIRECT THREAD SIZE |
| *PG HUB THREADING (LOCKNUT INCLUDED)* | | | | | | | | |
| .064" - .210" | 3464 | 3465 | 2.44" | .33" | .20" | .59" | .492" | PG 7 |
| .114" - .250" | 3237 | 3238 | 2.44" | .33" | .20" | .59" | .492" | |
| .069" - .187" | 3466 | 3467 | 2.77" | .34" | .20" | .75" | .599" | PG 9 |
| .181" - .312" | 3240 | 3241 | 2.77" | .34" | .20" | .75" | .599" | |
| .069" - .260" | 3468 | 3469 | 3.44" | .39" | .20" | .86" | .733" | PG 11 |
| .230" - .395" | 3243 | 3244 | 3.44" | .39" | .20" | .86" | .733" | |
| .170" - .470" | 3246 | 3247 | 3.88" | .41" | .20" | .95" | .804" | PG 13.5 |
| .230" - .547" | 3249 | 3250 | 4.36" | .45" | .23" | 1.05" | .886" | PG 16 |
| .250" - .485" | 3478 | 3479 | 5.03" | .52" | .23" | 1.30" | 1.115" | PG 21 |
| .450" - .709" | 3245 | 3248 | 5.03" | .52" | .23" | 1.30" | 1.115" | |
| *NPT HUB THREADING (ORDER LOCKNUT FOR PANEL MOUNTING - SEE BELOW)* | | | | | | | | |
| .069" - .187" | 3474 | 3475 | 2.97" | .53" | .20" | .75" | .670" | 3/8 NPT |
| .181" - .312" | 3254 | 3255 | 2.97" | .53" | .20" | .75" | .670" | |
| .170" - .470" | 3251 | 3252 | 4.09" | .62" | .20" | .95" | .875" | 1/2 NPT |
| .230" - .547" | 3266 | 3267 | 4.54" | .62" | .23" | 1.05" | .875" | |
| .250" - .485" | 3462 | 3463 | 5.14" | .63" | .23" | 1.30" | 1.068" | 3/4 NPT |
| .450" - .709" | 3239 | 3242 | 5.14" | .63" | .23" | 1.30" | 1.068" | |
| *METRIC HUB THREADING (LOCKNUT INCLUDED)* | | | | | | | | |
| 1.7mm-5.6mm | M4396 | M4397 | 62mm | 8.1mm | 5.3mm | 16mm | 12mm | M12 |
| 2.9mm-6.4mm | M4398 | M4399 | 62mm | 8.1mm | 5.3mm | 16mm | 12mm | |
| 1.7mm-4.7mm | M4400 | M4401 | 70.4mm | 8.1mm | 5.3mm | 21.1mm | 16mm | M16 |
| 2.7mm-7.9mm | M4402 | M4403 | 70.4mm | 8.1mm | 5.3mm | 21.1mm | 16mm | |
| 2.4mm-6.6mm | M4404 | M4405 | 98.8mm | 10.4mm | 5.3mm | 24.9mm | 20mm | M20 |
| 4.3mm-11.9mm | M4406 | M4407 | 98.8mm | 10.4mm | 5.3mm | 24.9mm | 20mm | |
| 6.4mm-12.3mm | M4408 | M4409 | 128mm | 13.2mm | 6.4mm | 33mm | 25mm | M25 |
| 12.3mm-18mm | M4410 | M4411 | 128mm | 13.2mm | 6.4mm | 33mm | 25mm | |

**Specifications - (both styles)**

**Material: Nylon with TPE or Buna-N-Gland**

**Certifications:**

- **#E-51579 (shaded)**
- **#E-51579 (non-shaded)**
- **#LR-93876 (all)**



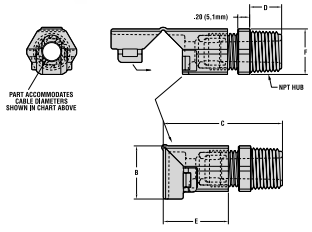

**Mounting Hole**

Suggested Clearance Hole For Non-Threaded Mounting

## LIQUID TIGHT RIGHT ANGLE FITTINGS

- **Molded open for easy installation.**
- **Snap-shut to bend the cable without damage.**
- **Suitable for NEMA 6P enclosures.**






| CABLE DIAMETER RANGE | Liquid Tight Right Angle Fittings PART NUMBER | | DIMENSIONS | | | | | MOUNTING | |
|---|---|---|---|---|---|---|---|---|---|
| | BLACK | GRAY | RIGHT ANGLE HEIGHT "B" | MAXIMUM LENGTH (CLOSED) "C" | THREAD LENGTH "D" | SEALING NUT LENGTH "E" | WRENCH FLATS "F" | CLEARANCE HOLE "A" | DIRECT THREAD SIZE |
| *PG HUB THREADING (LOCKNUT INCLUDED)* | | | | | | | | | |
| .064" - .210" | M8530 | M8531 | .69" | 1.53" | .33" | .86" | .59" | .492" | PG 7 |
| .114" - .250" | M8532 | M8533 | .69" | 1.53" | .33" | .86" | .59" | .492" | |
| .069" - .187" | M8534 | M8535 | .88" | 1.77" | .34" | 1.07" | .75" | .599" | PG 9 |
| .181" - .312" | M8536 | M8537 | .88" | 1.77" | .34" | 1.07" | .75" | .599" | |
| .078" - .260" | M8538 | M8539 | .99" | 1.99" | .39" | 1.23" | .86" | .733" | PG 11 |
| .230" - .395" | M8540 | M8541 | .99" | 1.99" | .39" | 1.23" | .86" | .733" | |
| .170" - .470" | M8542 | M8543 | 1.06" | 2.20" | .41" | 1.38" | .95" | .804" | PG 13.5 |
| *NPT HUB THREADING (ORDER LOCKNUT FOR PANEL MOUNTING - SEE BELOW)* | | | | | | | | | |
| .069" - .187" | M8560 | M8561 | .88" | 1.96" | .53" | 1.07" | .75" | .670" | 3/8 NPT |
| .181" - .312" | M8562 | M8563 | .88" | 1.96" | .53" | 1.07" | .75" | .670" | |
| .170" - .470" | M8564 | M8565 | 1.06" | 2.40" | .62" | 1.38" | .95" | .875" | 1/2 NPT |
| *METRIC HUB THREADING (LOCKNUT INCLUDED)* | | | | | | | | | |
| 1.7mm-5.6mm | M4448 | M4449 | 17.5mm | 38.8mm | 8.1mm | 21.8mm | 16mm | 12mm | M12 |
| 2.9mm-6.4mm | M4450 | M4451 | 17.5mm | 38.8mm | 8.1mm | 21.8mm | 16mm | 12mm | |
| 1.7mm-4.7mm | M4452 | M4453 | 22.4mm | 45mm | 8.1mm | 27.2mm | 21mm | 16mm | M16 |
| 2.7mm-7.9mm | M4454 | M4455 | 22.4mm | 45mm | 8.1mm | 27.2mm | 21mm | 16mm | |
| 2.4mm-6.6mm | M4456 | M4457 | 26.9mm | 56.4mm | 10.4mm | 35.1mm | 24.9mm | 20mm | M20 |
| 4.3mm-11.9mm | M4458 | M4459 | 26.9mm | 56.4mm | 10.4mm | 35.1mm | 24.9mm | 20mm | |

**Locknuts (NPT Hub) – see chart on opposite page**





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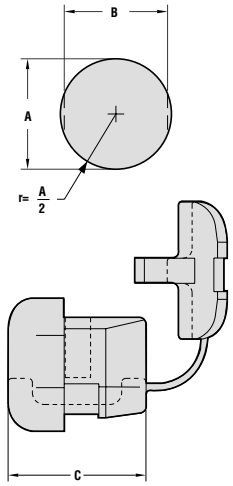
**For Round Cables**

## STRAIGHT-THRU STRAIN RELIEF BUSHINGS

| WILL FIT THESE CABLES | | | PART NUMBER | | MOUNTING | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | HOLE SIZE | | |
| UL DESIGNATION | AWG CONDUCTORS | APPROXIMATE DIAMETER | BLACK | WHITE | MAXIMUM PANEL THICKNESS | DIAMETER "A" | ANTI-ROTATION "B" | BODY LENGTH "C" |
| AWM | ---- | .125" - .187" | 1060 | 1061 | .062" | .375" | .330" | .406" |
| SV & SVT | 18/2 | .220" - .245" | 1157 | 1158 | .062" | .500" | .450" | .438" |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1140 | 1141 | .100" | | | |
| SV & SVT | 18/2 | .250" | 1150 | 1151 | .062" | .500" | .450" | .438" |
| | 18/3 | .255" | | | | .500" - .515" | | |
| HPD | 18/2 | .270" | | | | .500" | | |
| | 16/2 | .290" | | | | .500" - .515" | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1147 | 1148 | .100" | SAME AS ABOVE | | |
| | | | 1154 | 1155 | .156" | | | |
| SV & SVT | 18/3 | .255" | 1137 | 1138 | .100" | .500" | .450" | .438" |
| HPD | 16/2 | .290" | | | | | | |
| | | | | | | | | |
| SJ, SJT & SJO | 18/2 | .300" | 1184 | 1185 | .090" | .500" | .465" | .438" |
| | | | | | | | | |
| SJ, SJT & SJO | 18/2 | .300" | 1217 | 1218 | .062" | .625" | .550" | .578" |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1210 | 1211 | .125" | SAME AS ABOVE | | |
| SJ, SJT & SJO | 16/2 | .325" | 1200 | 1201 | .062" | .625" | .550" | .578" |
| | 18/3 | .330" | | | | | | |
| | 14/2 | .350" | | | | | | |
| | 16/3 | .355" | | | | | | |
| | 18/4 | .360" | | | | | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1207 | 1208 | .125" | SAME AS ABOVE | | |
| SJ, SJT & SJO | 18/2 | .300" | 1214 | 1215 | .156" | .625" | .550" | .678" |
| | 16/2 | .325" | | | | .656" | | |
| | 18/3 | .330" | | | | .656" | | |
| | 16/3 | .355" | | | | .687" | | |
| SJT | 18/4 | .360" | 1244 | 1245 | .062" | .750" | .660" | .750" |
| | 14/3 | .370" | | | | | | |
| S & ST | 18/2 | .390" | | | | | | |
| | 18/3 | .405" | | | | | | |
| | 16/2 | .405" | | | | | | |
| | 16/3 | .430" | | | | .750" - .781" | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1237 | 1238 | .125" | SAME AS ABOVE | | |
| SJ, SJT & SJO | 16/2 | .325" | 1240 | 1241 | .125" | .875" | .770" | .750" |
| | 18/3 | .330" | | | | | | |
| | 14/2 | .350" | | | | | | |
| | 16/3 | .355" | | | | | | |
| | 18/4 | .360" | | | | | | |
| SJT | 14/3 | .370" | 1247 | 1248 | .125" | .875" | .770" | .750" |
| | 12/3 | .425" | | | | | | |
| S & ST | 18/2 | .390" | | | | | | |
| | 18/3 | .405" | | | | | | |
| | 16/2 | .405" | | | | | | |
| | 16/3 | .430" | | | | | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1250 | 1251 | .200" | SAME AS ABOVE | | |
| SJT | 12/3 | .425" - .475" | 1497 | 1498 | .125" | .875" | .840" | .812" |
| S & ST | 14/2 | .530" | 1254 | 1255 | .062" | .875" | .840" | .828" |
| | 14/3 | .560" | | | | | | |
| | 12/2 | .600" | | | | | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1260 | 1261 | .125" | SAME AS ABOVE | | .812" |
| | | | 1274 | 1275 | .187" | | | |
| S | 12/2 | .600" | 1287 | 1288 | .281" | 1.093" | 1.00" | 1.00" |
| | 12/3 | .635" | | | | 1.125" | | |
| | 10/2 | .640" | | | | 1.093" | | |
| S, ST & SO | 10/3 | .690" | | | | 1.187" | | |



- **Protects the cord by absorbing pull, push and twist forces.**
- **Securely anchors, insulates and protects the cable at the chassis entry point.**
- **Assembly tools are available, please call.**




**Material:** Nylon

**Certifications:** # E-15331
# LR-8919

**Flammability Rating:** 94V-2

**Try this part in your application Please call for samples.**

**800-747-7405**

## STRAIGHT-THRU STRAIN RELIEF BUSHINGS

**For Flat Cables**



- **Protects the cord by absorbing pull, push and twist forces.**
- **Securely anchors, insulates and protects the cable at the chassis entry point.**
- **Assembly tools are available, please call.**



**Material:** Nylon

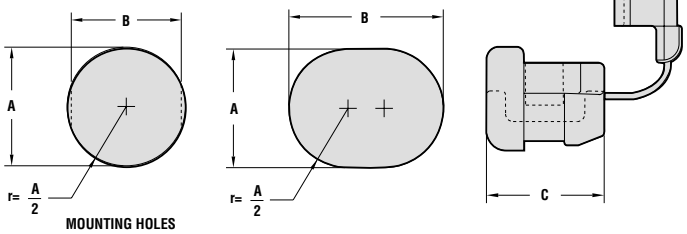
**Certifications:** UL # E-15331
CSA # LR-8919

**Flammability Rating:** 94V-2

| WILL FIT THESE CABLES | | | PART NUMBER | | MOUNTING | | | BODY LENGTH "C" |
|---|---|---|---|---|---|---|---|---|
| UL DESIGNATION | AWG CONDUCTORS | APPROXIMATE SIZE | BLACK | WHITE | MAXIMUM PANEL THICKNESS | HOLE SIZE DIAMETER "A" | HOLE SIZE ANTI-ROTATION "B" | |
| CLOCK SPT-1 | 20/2 | .09" X .18" | 1017 | 1018 | .062" | .375" | .345" | .406" |
| | 18/2 | .11" X .21" | | | | | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1034 | 1035 | .125" | | | |
| SPT-1 | 18/2 | .12" X .22" | 1074 | 1075 | .040" | .437" | .390" | .406" |
| | | | 1077 | 1078 | .062" | | | |
| | | | 1104 | 1105 | .100" | | | |
| | | | 1094 | 1095 | .156" | | | |
| SPT-1 HPN | 18/3 | .12" X .30" | 1120 | 1121 | .062" | .500" | .465" | .406" |
| | 18/2 | .15" X .28" | | | | | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1117 | 1118 | .100" | | | |
| | | | 1127 | 1128 | .156" | | | |
| SPT-1 | 18/3 | .12" X .30" | 1114 | 1115 | .095" | .500" | .460" | .500" |
| SPT-2 & HPN | 18/2 | .15" X .28" | | | | .500" - .515" | | |
| | 16/2 | .16" X .30" | | | | | | |
| HPN | 18/3 | .15" X. 34" | | | | | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1124 | 1125 | .187" | SAME AS ABOVE | | |
| SPT-2 | 18/3 | .15" X .40" | 1170 | 1171 | .062" | .562" | .530" | .609" |
| | 16/3 | .16" X .41" | | | | | | |
| SPT-3 | 18/2 | .19" X .35" | | | | | | |
| | 16/2 | .20" X .37" | | | | | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1167 | 1168 | .125" | | | |
| SPT-2 & HPN | 16/3 | .16" X .37" | 1174 | 1175 | .125" | .562" | .530" | .609" |
| | 18/3 | .15" X .40" | | | | | | |
| | 16/3 | .16" X .41" | | | | | | |
| SPT-2 | 18/3 | .15" X .40" | 1484 | 1485 | .125" | .560" | .730" | .672" |
| | 16/3 | .16" x .41" | | | | | | |
| SPT-3 | 18/2 | .19" X .35" | | | | | | |
| | 18/3 | .19" X .39" | | | | | | |
| | 16/2 | .20" X .37" | | | | | | |
| | 16/3 | .20 X .43" | | | | | | |
| SPT-3 | 16/2 | .20" X .37" | 1504 | 1505 | .125" | .750" | .875" | .781" |
| | 16/3 | .20 X .43" | | | | | | |
| | 14/2 | .24" X .42" | | | | | | |
| | 14/3 | .24" X .51" | | | | | | |
| SPT-3 | 14/2 | .24" X .42" | 1517 | 1518 | .125" | .875" | .840" | .813" |
| | 14/3 | .24" X .51" | | | | | | |
| | 12/2 | .29" X .51" | | | | | | |
| | 12/3 | .29" X .65" | | | | | | |
| SPT-3 | 12/3 | .32" X .65" | 1497 | 1498 | .125" | .875" | .840" | .813" |
| | 10/3 | | | | | | | |
| 300 OHM* | | .06" X .40" | 1814 | 1815 | .100" | .375" | .625"-.640" | .469" |
| SPT-1 | 18/3 | .12" X .30" | | | | .375"-.390" | | |
| SPT-2 | 18/3 | .15" X .40" | | | | .415"-.422" | | |
| | 16/3 | .16" X .41" | | | | .422"-.437" | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1804 | 1805 | .156" | SAME AS ABOVE | | |

**Try this part in your application Please call for samples.**

**800-747-7405**




MOUNTING HOLES

**For Flat or Round Cables**

## LOCKIT™ STRAIN RELIEF BUSHINGS

| WILL FIT THESE CABLES | | | PART NUMBER | | MOUNTING | |
|---|---|---|---|---|---|---|
| UL DESIGNATION | AWG CONDUCTORS | APPROXIMATE SIZE | BLACK | WHITE | HOLE SIZE | PANEL THICKNESS RANGE |
| *FOR FLAT CABLES* | | | | | | |
| SPT-1 | 18/2 | .12" X .22" | 1829 | 1830 | .453" X .512" (11.5mm X 13mm) | .032" - .099" (.8mm-2.5mm) |
| | 18/3 | .12" x .30" | | | | |
| SPT-2 & HPN | 18/2 | .15" X .28" | | | | |
| | 16/2 | .16 X .30" | | | | |
| HPN | 16/3 | .16" X .37" | 1834 | 1835 | .689" X .689" (17.5mm X 17.5mm) | .032" - .157" (.8mm - .4mm) |
| SPT-2 | 18/3 | .15" X .40" | | | | |
| | 16/3 | .16" X .41" | | | | |
| SPT-3 | 18/2 | .19" X .35" | | | | |
| | 18/3 | .19" X .39" | | | | |
| | 16/2 | .20" X .37" | | | | |
| | 16/3 | .20" X .43" | | | | |
| | 14/2 | .24" X .42" | | | | |
| SPT-3 | 16/3 | .032" X .099" | 1847 | ---- | .453" X . 630" (11.5mm X 16mm) | .032" - .099" (.8mm-2.5mm) |
| HPN | 18/3 | .380" X .105" | | | | |
| SPT-2 | 18/2 | .135" X .270" | | | | |
| *FOR ROUND CABLES* | | | | | | |
| SV | 18/2 | .220" DIA. | 1832 | 1833 | .453" X .512" (11.5mm X 13mm) | .032" - .099" (.8mm-2.5mm) |
| | 18/3 | .250" DIA. | | | | |
| SVT | 18/2 | .245" DIA. | | | | |
| | 18/3 | .255" DIA. | | | | |
| HPD | 18/2 | .270" DIA. | | | | |
| | 16/2 | .290" DIA. | | | | |
| SJ | 18/2 | .300" DIA. | 1836 | 1837 | .689" X .689" (17.5mm X 17.5mm) | .032" - .157" (.8mm - 4mm) |
| | 16/2 | .315" DIA. | | | | |
| | 18/3 | .320" DIA. | | | | |
| SJO | 16/2 | .325" DIA. | | | | |
| | 18/3 | .330" DIA. | | | | |
| SJT | 14/2 | .350" DIA. | | | | |
| | 16/3 | .355" DIA. | | | | |
| | 18/4 | .360" DIA. | | | | |
| SJT | 14/2 | .355" DIA. | 1848 | ---- | .689" X . 689" (17.5mm X 17.5mm) | .032" - .157" (.8mm-4mm) |
| STO | 16/3 | .390" DIA. | | | | |
| SEOW-A | 16/4 | .420" DIA. | | | | |



**Flat Cable**

- **Strain reliefs self-lock onto the cable.**
- **May be assembled off-line and inserted into the chassis later.**
- **Protects the cord by absorbing push, pull and twisting forces.**
- **Assembly tools are available, please call.**



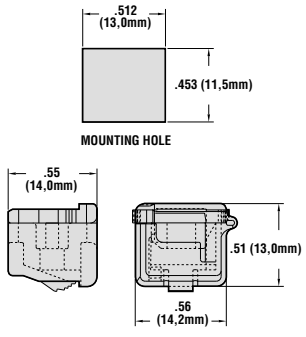
**Round Cable**

**Material:** Nylon

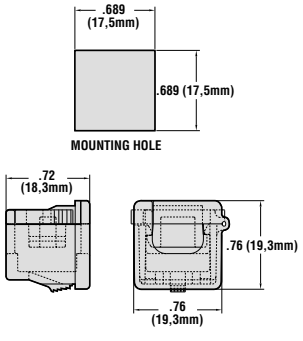
**Certifications:** # E-15331
# LR-8919

**Flammability Rating:** 94V-2

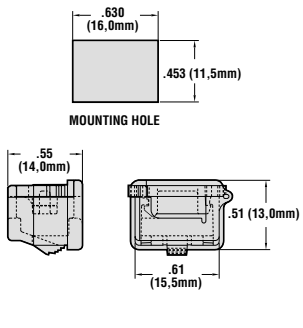
**Part Numbers**
**1829, 1830, 1832, 1833**




**Part Numbers**
**1834, 1835, 1836, 1837, 1848**




**Part Number**
**1847**






™ HEYCO Products, Inc.

## RIGHT ANGLE STRAIN RELIEF BUSHINGS

**For Flat or Round Cables**



**Flat Cable**

- **Saves space by allowing the cable to exit parallel to the chassis.**
- **Acts as a back bumper.**
- **Protects the cord by absorbing push, pull and twisting forces.**
- **Securely anchors, insulates and protects the cable at the chassis entry point.**
- **Assembly tools are available, please call.**



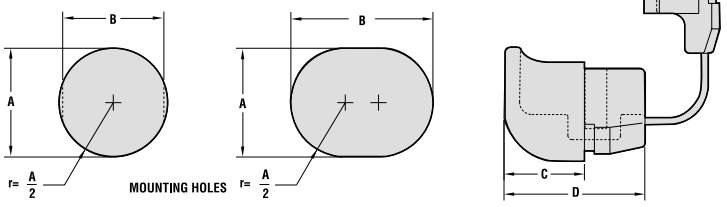
**Round Cable**

**Material:** Nylon

**Certifications:** # E-15331
# LR-8919

**Flammability Rating:** 94V-2

| WILL FIT THESE CABLES | | | PART NUMBER | MOUNTING | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | HOLE SIZE | | | |
| UL DESIGNATION | AWG CONDUCTORS | APPROXIMATE SIZE | BLACK | MAXIMUM PANEL THICKNESS | DIAMETER "A" | ANTI-ROTATION "B" | HEAD LENGTH "C" | BODY LENGTH "D" |
| *FOR FLAT CABLES* | | | | | | | | |
| SPT-1 | 18/2 | .12" X .22" | 1354 | .062" | .437" | .390" | .234" | .500" |
| SPT-1 | 18/3 | .12" X .30" | 1361 | .040" | .500" | .450" | .390" | .687" |
| SPT-2 HPN | 18/2 | .15" X .28" | | | | | | |
| | 16/2 | .16" X .30" | | | | | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1364 | .100" | | | | |
| SPT-2 | 18/3 | .15" X .40" | 1384 | .125" | .562" | .525" | .500" | .859" |
| SPT-3 | 18/2 | .19" X .35" | | | | | | |
| | 16/2 | .20" X .37" | | | | | | |
| HPN | 16/3 | .16 X .37" | | | | | | |
| SPT-2 | 18/3 | .15" X .40" | 1424 | .080" | .560" | .730" | .406" | .812" |
| | 16/3 | .16" X .41" | | | | | | |
| SPT-3 | 18/2 | .19" X .35" | | | | | | |
| | 18/3 | .19" X .39" | | | | | | |
| | 16/2 | .20" X .37" | | | | | | |
| | 16/3 | .20" X .43" | | | | | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1434 | .125" | SAME AS ABOVE | | | |
| SPT-3 | 16/2 | .20" X . 37" | 1454 | .125" | .750" | .875" | .484" | .937" |
| | 16/3 | .20" X .43" | | | | | | |
| | 14/2 | .24" X .42" | | | | | | |
| | 14/3 | .24" X . 51" | | | | | | |
| SPT-3 | 14/2 | .24" X .42" | 1464 | .125" | .875" | .840" | .500" | .968" |
| | 14/3 | .24" X . 51" | | | | | | |
| | 12/2 | .29" X .51" | | | | | | |
| | 12/3 | .29" X .65" | | | | | | |
| SPT-3 | 10/3 | .32" X .66" | 1440 | .125" | 1.093" | 1.00" | .734" | 1.437" |
| *FOR ROUND CABLES* | | | | | | | | |
| SV & SVT | 18/2 | .250" DIA. | 1374 | .100" | .500" | .450" | .390" | .687" |
| | 18/3 | .265" DIA. | | | .500" - .515" | | | |
| HPD | 18/2 | .270" DIA. | | | .500" | | | |
| | 16/2 | .290" DIA. | | | .500" - .515" | | | |
| SJ, SJT & SJO | 18/2 | .300" DIA. | 1320 | .125" | .625" | .550" | .562" | .968" |
| | 16/2 | .325" DIA. | | | | | | |
| | 18/3 | .330" DIA. | | | | | | |
| | 16/3 | .355" DIA. | | | | | | |
| SJ, SJT & SJO | 16/2 | .325" DIA. | 1327 | .125" | .625" | .550" | .562" | .968" |
| | 18/3 | .330" DIA. | | | | | | |
| | 16/3 | .355" DIA. | | | | | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1330 | .200" | SAME AS ABOVE | | | |
| SJT | 18/4 | .360" DIA. | 1397 | .125" | .750" | .660" | .640" | 1.093" |
| | 14/3 | .370" DIA. | | | | | | |
| S & ST | 18/2 | .390" DIA. | | | | | | |
| | 18/3 | .405" DIA. | | | | | | |
| | 16/2 | .405" DIA. | | | | | | |
| | 16/3 | .430" DIA. | | | .750" - .781" | | | |



**For Flat or Round Cables**

## BELL-MOUTH STRAIN RELIEF BUSHINGS

| WILL FIT THESE CABLES | | | PART NUMBER | | MOUNTING | | | HEAD LENGTH "C" | BODY LENGTH "D" |
|---|---|---|---|---|---|---|---|---|---|
| UL DESIGNATION | AWG CONDUCTORS | APPROXIMATE SIZE | BLACK | WHITE | MAXIMUM PANEL THICKNESS | HOLE SIZE DIAMETER "A" | HOLE SIZE ANTI-ROTATION "B" | | |
| *FOR FLAT CABLES* | | | | | | | | | |
| CLOCK | 18/3 | .09" X .18" | 1020 | 1021 | .062" | .375" | .330" | .375" | .625" |
| SPT-2 | 18/2 | .11" X .21" | | | | | | | |
| SPT-1 | 18/2 | .12" X .22" | 1080 | 1081 | .062" | .437" | .390" | .375" | .625" |
| SPT-1 | 18/3 | .12" X .30" | 1108 | 1109 | .062" | .500" | .465" | .406" | .703" |
| SPT-2 & HPN | 18/2 | .15" X .28" | | | | .500"-.515" | | | |
| | 16/2 | .16" X .30" | | | | | | | |
| HPN | 18/3 | .15" X .34" | 1229 | 1230 | .125" | .625" | .550" | .406" | .813" |
| | 16/3 | .16" X .37" | | | | | | | |
| SPT-2 | 16/2 | .16" X .30" | | | | | | | |
| | 16/3 | .16" X .41" | | | | | | | |
| *FOR ROUND CABLES* | | | | | | | | | |
| SV & SVT | 18/2 | .250" DIA. | 1143 | 1144 | .062" | .500" | .450" | .406" | .688" |
| | 18/3 | .255" DIA. | | | | .500" - .515" | | | |
| HPD | 18/2 | .270" DIA. | | | | .500" | | | |
| | 16/2 | .290" DIA. | | | | .500" - .515" | | | |
| SJ, SJT & SJO | 18/2 | .300" DIA. | 1226 | 1227 | .125" | .625" | .550" | .421" | .813" |
| SJ, SJT & SJO | 16/2 | .315" DIA. | 1232 | 1233 | .125" | .625" | .550" | .421" | .813" |
| | 18/3 | .320" DIA. | | | | | | | |
| SJ, SJT & SJO | 16/2 | .325" DIA. | 1223 | 1224 | .062" | .625" | .550" | .421" | .813" |
| | 18/3 | .330" DIA. | | | | | | | |
| | 14/2 | .350" DIA. | | | | | | | |
| | 16/3 | .355" DIA. | | | | | | | |
| | 18/4 | .360" DIA. | | | | | | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1220 | 1221 | .125" | SAME AS ABOVE | | .468" | .813" |

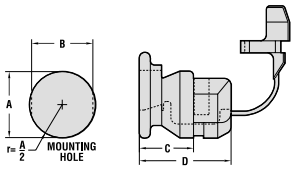


- **Flared end prevents sharp bending and assures longer cable life.**

**Material: Nylon**

**Certifications:**
**#E-15331**
**# LR-8919**

**Flammability Rating: 94V-2**




*** See Bell mouth for materials and certifications**

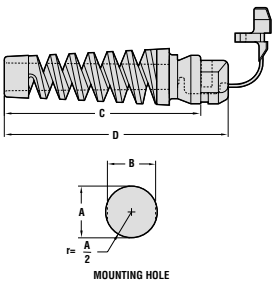
**For Flat or Round Cables**

## PIGTAIL™ STRAIN RELIEF BUSHINGS

| WILL FIT THESE CABLES | | | PART NUMBER | MOUNTING | | | EXTENSION LENGTH "C" | BODY LENGTH "D" |
|---|---|---|---|---|---|---|---|---|
| UL DESIGNATION | AWG CONDUCTORS | APPROXIMATE SIZE | BLACK | MAXIMUM PANEL THICKNESS | HOLE SIZE DIAMETER "A" | HOLE SIZE ANTI-ROTATION "B" | | |
| *FOR FLAT CABLES* | | | | | | | | |
| SPT-1 | 18/3 | .12" X .30" | 1541 | .062" | .500" | .465" | 1.72" | 1.98" |
| SPT-2 & HPN | 18/2 | .15" X .28" | | | | | | |
| *FOR ROUND CABLES* | | | | | | | | |
| SV & SVT | 18/2 | .250" DIA. | 1590 | .062" | .500" | .450" | 1.70" | 1.98" |
| | 18/3 | .255" DIA. | | | .500" - .515" | | | |
| HPD | 18/2 | .270" DIA. | | | .500" | | | |
| | 16/2 | .290" DIA. | | | .500" - .515" | | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1593 | .125" | SAME AS ABOVE | | | |
| SJ, SJT & SJO | 18/2 | .300" DIA. | 1596 | .062" | .625" | .550" | 1.72" | 2.11" |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1602 | .125" | SAME AS ABOVE | | | |
| SJ, SJT & SJO | 16/2 | .315" DIA. | 1599 | .062" | .625" | .550" | 1.72" | 2.11" |
| | 18/3 | .320" DIA. | | | | | | |
| | 14/2 | .350" DIA. | | | | | | |
| | 16/3 | .355" DIA. | | | | | | |
| | 18/4 | .360" DIA. | | | | | | |
| SAME AS ABOVE, EXCEPT PANEL THICKNESS | | | 1605 | .125" | SAME AS ABOVE | | | |
| SJT | 18/4 | .360" DIA. | 1611 | .125" | .750" | .660" | 2.16" | 2.60" |
| | 14/3 | .370" DIA. | | | | | | |
| S & ST | 18/2 | .390" DIA. | | | | | | |
| | 18/3 | .405" DIA. | | | | | | |
| | 16/2 | .405" DIA. | | | | | | |
| | 16/3 | .430" DIA. | | | .750"-.781" | | | |



- **"Pigtail" end prevents sharp bending and assures long cable life**



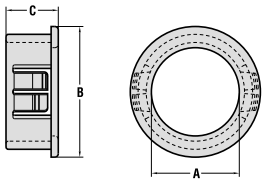



™ HEYCO Products, Inc.

# WIRE MANAGEMENT
## BUSHINGS

### SNAP BUSHINGS






- **Converts raw holes to smooth, neat, insulated holes.**
- **"Snaps" into the hole with fingertip pressure.**
- **Wide range of hole sizes.**
- **Locking fingers grip panel at thickness up to and including listed maximum.**
- **Brass colors for lamps available as standards in select sizes.**
- **Custom colors available for volume applications.**

| PART NUMBER | | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|---|
| BLACK | WHITE | INSIDE DIAMETER "A" | HEAD DIAMETER "B" | OVERALL HEIGHT "C" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 2003* | 2004* | .125" | .312" | .312" | .040" | .250" |
| 2000* | 2001* | .125" | .312" | .312" | .062" | .250" |
| 2010* | 2011* | .187" | .375" | .312" | .062" | .312" |
| 2020 | 2021 | .187" | .468" | .406" | .125" | .375" |
| 2030 | 2031 | .250" | .468" | .406" | .125" | .375" |
| 2017* | 2018* | .281" | .468" | .406" | .172" | .375" |
| 2038 | 2039 | .270" | .531" | .406" | .125" | .437" |
| 2043 | 2044 | .312" | .531" | .406" | .125" | .437" |
| 2042 | 2037 | .243" | .531" | .406" | .125" | .437" |
| 2058 | 2059 | .250" | .578" | .406" | .125" | .500" |
| 2049 | 2050 | .312" | .578" | .406" | .125" | .500" |
| 2053 | 2054 | .391" | .578" | .406" | .125" | .500" |
| 2060 | 2061 | .312" | .656" | .406" | .125" | .562" |
| 2063 | 2064 | .391" | .656" | .406" | .125" | .562" |
| 2066 | 2067 | .437" | .656" | .406" | .125" | .562" |
| 2075 | 2078 | .250" | .718" | .406" | .125" | .625" |
| 2075 | 2078 | .250" | .718" | .406" | .125" | .625" |
| 2075 | 2078 | .250" | .718" | .406" | .125" | .625" |
| 2075 | 2078 | .250" | .718" | .531" | .125" | .625" |
| 2083 | 2084 | .500" | .781" | .406" | .125" | .687" |
| 2086 | 2087 | .562" | .781" | .406" | .125" | .687" |
| 2090 | 2091 | .391" | .843" | .406" | .125" | .750" |
| 2092 | 2099 | .500" | .843" | .406" | .125" | .750" |
| 2093 | 2094 | .562" | .843" | .406" | .125" | .750" |
| 2096 | 2097 | .609" | .843" | .406" | .125" | .750" |
| 2840* | 2841* | .625" | .828" | .531" | .250" | .750" |
| 2100 | 2101 | .562" | .890" | .406" | .125" | .812" |
| 2103 | 2104 | .625" | .890" | .406" | .125" | .812" |

| PART NUMBER | | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|---|
| BLACK | WHITE | INSIDE DIAMETER "A" | HEAD DIAMETER "B" | OVERALL HEIGHT "C" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 2110 | 2111 | .375" | .953" | .453" | .125" | .875" |
| 2113 | 2114 | .437" | .953" | .453" | .125" | .875" |
| 2116 | 2117 | .500" | .953" | .453" | .125" | .875" |
| 2120 | 2121 | .562" | .953" | .453" | .125" | .875" |
| 2123 | 2124 | .625" | .953" | .453" | .125" | .875" |
| 2126 | 2127 | .687" | .953" | .453" | .125" | .875" |
| 2140 | 2141 | .766" | 1.125" | .453" | .125" | 1.000" |
| 2160 | 2161 | .812" | 1.218" | .453" | .125" | 1.125" |
| 2163 | 2164 | .875" | 1.218" | .453" | .125" | 1.125" |
| 2166 | 2167 | .937" | 1.218" | .453" | .125" | 1.125" |
| 2182 | 2183 | .937" | 1.312" | .453" | .125" | 1.187" |
| 2198 | 2199 | .937" | 1.359" | .453" | .125" | 1.250" |
| 2201 | 2202 | 1.000" | 1.310" | .453" | .125" | 1.250" |
| 2207 | 2208 | .875" | 1.468" | .453" | .125" | 1.375" |
| 2210 | 2211 | 1.000" | 1.468" | .453" | .125" | 1.375" |
| 2233 | 2234 | 1.062" | 1.609" | .453" | .125" | 1.500" |
| 2236 | 2237 | 1.125" | 1.609" | .453" | .125" | 1.500" |
| 2240 | 2241 | 1.312" | 1.609" | .453" | .125" | 1.500" |
| 2300 | 2301 | 1.375" | 1.875" | .453" | .125" | 1.750" |
| 2400 | 2401 | 1.640" | 2.125" | .453" | .125" | 2.000" |
| 2406 | ---- | 1.750" | 2.125" | .453" | .125" | 2.000" |
| 2415 | 2416 | 1.813" | 2.350" | .720" | .250" | 2.093" |
| 2417 | 2418 | 1.860" | 2.480" | .720" | .250" | 2.250" |
| 2420 | 2421 | 1.970" | 2.660" | .720" | .250" | 2.500" |
| 2461 | 2462 | 2.470" | 3.160" | .720" | .250" | 3.000" |
| 2407 | 2408 | 2.812" | 3.660" | .720" | .250" | 3.375" |
| 2470 | 2471 | 2.940" | .3660" | .720" | .250" | 3.500" |
| 2479 | 2480 | 3.460" | 4.170" | .720" | .250" | 4.000" |
| 2409 | 2410 | 4.375" | 5.219" | .720" | .250" | 5.000" |
| 2484 | 2485 | 5.375" | 6.219" | .720" | .250" | 6.000" |

* Single chassis design, call for drawing

**METRIC SIZES AVAILABLE, SEE PAGE 326.**

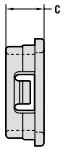
**Material:** Nylon

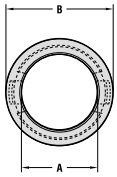
**Certifications:** # E-15331
# LR-8919

**Flammability Rating:** 94V-2

## SHORTY BUSHINGS

- **Same as snap bushing, but with minimal internal protosion.**

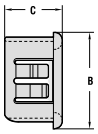



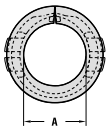



| PART NUMBER | | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|---|
| BLACK | WHITE | INSIDE DIAMETER "A" | HEAD DIAMETER "B" | OVERALL HEIGHT "C" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 2800 | 2801 | .125" | .250" | .234" | .062" | .187" |
| 2859 | 2860 | .125" | .281" | .234" | .062" | .218" |
| 2853 | 2854 | .218" | .343" | .234" | .062" | .281" |
| 2810 | 2811 | .250" | .375" | .234" | .062" | .312" |
| 2856 | 2857 | .218" | .406" | .250" | .062" | .343" |
| 2803 | 2804 | .250" | .437" | .250" | .062" | .375" |
| 2806 | 2807 | .281" | .468" | .250" | .062" | .406" |
| 2813 | 2814 | .312" | .500" | .250" | .062" | .437" |
| 2817 | 2818 | .343" | .530" | .250" | .062" | .468" |
| 2820 | 2821 | .375" | .562" | .250" | .062" | 500" |
| 2824 | 2825 | .406" | .593" | .250" | .062" | .531" |
| 2833 | 2834 | .468" | .656" | .250" | .062" | .593" |
| 2827 | 2828 | .500" | .703" | .250" | .062" | .625" |
| 2836 | 2837 | .625" | .828" | .250" | .062" | .750" |
| 2844 | 2845 | .625" | .859" | .250" | .062" | .781" |
| 2850 | 2851 | .750" | .937" | .250" | .062" | .875" |
| 2847 | 2848 | .879" | 1.060" | .250" | .062" | 1.000" |

## OPEN/CLOSE BUSHINGS

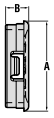
- **Split design allows side entry and encirclement of pre-assembled harnesses and tubing.**
- **Can be used on holes already containing a cable assembly or tubing.**

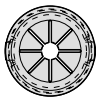






| PART NUMBER | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|
| BLACK | INSIDE DIAMETER "A" | HEAD DIAMETER "B" | OVERALL HEIGHT "C" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 2865 | .265" | .421" | .390" | .125" | .375" |
| 2867 | .312" | .500" | .406" | .125" | .437" |
| 2871 | .312" | .562" | .406" | .125" | 500" |
| 2869 | .390" | .640" | .406" | .125" | .562" |
| 2872 | .453" | .687" | .406" | .125" | .625" |
| 2873 | .546" | .796" | .406" | .125" | .750" |
| 2874 | .671" | .921" | .406" | .125" | .875" |
| 2878 | .812" | 1.047" | .406" | .125" | 1.000" |
| 2879 | .875" | 1.156" | .406" | .125" | 1.093" |
| 2881 | 1.046" | 1.343" | .406" | .125" | 1.250" |
| 2882 | 1.171" | 1.468" | .406" | .125" | 1.375" |
| 2883 | 1.250" | 1.578" | .421" | .125" | 1.500" |

## SHORTY UNIVERSAL BUSHING



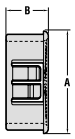
| PART NUMBER | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|
| BLACK | MAXIMUM INSIDE DIAMETER | HEAD DIAMETER "A" | OVERALL HEIGHT "B" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 2861 | .437" | .729" | .250" | .062" | .625" |
| 2862 | .500" | .859" | .250" | .062" | .750" |
| 2863 | .560" | .937" | .250" | .062" | .875" |

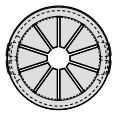
**Specifications (All Models)**

**Material:** Nylon
**Certifications:** UL # E-15331
CSA # LR-8919
**Flammability Rating:** 94V-2

## UNIVERSAL BUSHING

- **Flexible shutters adjust to support any shape.**
- **Absorbs vibration, cushions and insulates cables, tubing, or shafts.**

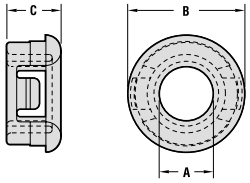


| PART NUMBER | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|
| BLACK | MAXIMUM INSIDE DIAMETER | HEAD DIAMETER "A" | OVERALL HEIGHT "B" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 2055 | .312" | .600" | .385" | .125" | .500" |
| 2077 | .437" | .718" | .406" | .125" | .625" |
| 2089 | .500" | .844" | .390" | .125" | .750" |
| 2106 | .500" | .890" | .390" | .125" | .812" |
| 2119 | .562" | .937" | .453" | .125" | .875" |
| 2137 | .750" | 1.063" | .453" | .125" | 1.000" |
| 2157 | .812" | 1.156" | .453" | .125" | 1.093" |
| 2184 | 1.000" | 1.490" | .453" | .125" | 1.375" |
| 2213 | 1.062" | 1.610" | .450" | .125" | 1.500" |

## DOUBLE INSULATED BUSHINGS

- **Extra internal sleeve covers entire inside diameter.**
- **"No-snag" design.**
- **Large radius exit hole.**






| PART NUMBER | | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|---|
| BLACK | WHITE | INSIDE DIAMETER "A" | HEAD DIAMETER "B" | OVERALL HEIGHT "C" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 2514 | 2515 | .250" | .562" | .265" | .062" | .500" |

**Material: Nylon**

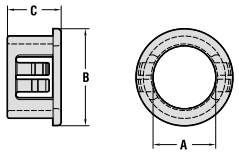
**Certifications: #E-15331**
**# LR-8919**

## METRIC SNAP BUSHINGS

METRIC

- **Standard metric hole sizes for the popular snap bushing line.**





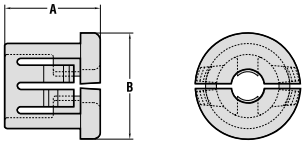

| PART NUMBER | | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|---|
| BLACK | WHITE | INSIDE DIAMETER "A" | HEAD DIAMETER "B" | OVERALL HEIGHT "C" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 2142 | 2143 | 12mm | 18.5mm | 10.3mm | 2.5mm | 16mm |
| 2144 | 2145 | 15mm | 22.6mm | 10.3mm | 2.5mm | 20mm |
| 2146 | 2147 | 19mm | 27.8mm | 11.5mm | 2.5mm | 25mm |
| 2148 | 2149 | 26mm | 34.9mm | 11.5mm | 2.5mm | 32mm |

**Flammability Rating: 94V-2**

## SNUB BUSHINGS

- **Provides insulation plus light strain relief.**
- **Suitable for 1/8" – 1/4" diameter cable or tubing.**






| APPROXIMATE CABLE DIAMETER ACCOMODATED | PART NUMBER | DIMENSIONS | | MOUNTING | |
|---|---|---|---|---|---|
| | BLACK | HEAD DIAMETER "A" | OVERALL HEIGHT "B" | MAXIMUM PANEL THICKNESS | HOLE DIAMETER |
| 1/8" | 2034 | .460" | .420" | .125" | .375" |
| 3/16" | 2047 | .470" | .440" | .125" | .437" |
| 1/4" | 2057 | .560" | .440" | .125" | .500" |

**Material: Nylon**

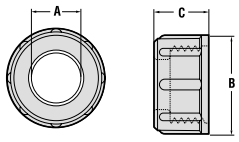
**Certifications: #E-15331**
**# LR-8919**

**Flammability Rating: 94V-2**

## THREADED INSULATING BUSHINGS

- **Converts raw edge pipe ends with NPT threading to smooth insulated ends.**






| PART NUMBER | DIMENSIONS | | | MOUNTING |
|---|---|---|---|---|
| BLACK | INSIDE DIAMETER "A" | HEAD DIAMETER "B" | OVERALL HEIGHT "C" | NPT TRADE SIZE |
| 2282 | .268" | .530" | .296" | 1/8" |
| 2284 | .348" | .715" | .363" | 1/4" |
| 2286 | .468" | .875" | .466" | 3/8" |

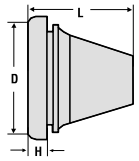
**Material: Nylon (2282)**
**Phenolic (2284, 2286)**

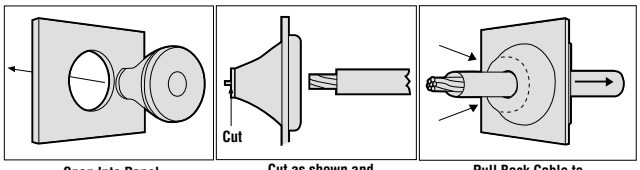
## LIQUID TIGHT BUSHINGS

| CABLE DIAMETER RANGE | "Snap-In" Liquid Tight Grommets GRAY | DIMENSIONS | | | MOUNTING | |
|---|---|---|---|---|---|---|
| | | HEAD DIAMETER "D" | HEAD THICKNESS "H" | OVERALL LENGTH "L" | HOLE DIAMETER | PANEL THICKNESS RANGE |
| .12" - .20" | **4014** | .79" | .27" | .50" | .52" | .040" - .160" |
| .20" - .28" | **4015** | .79" | .23" | .79" | .63" | .040" - .160" |
| .28" - .39" | **4016** | .94" | .23" | .83" | .75" | .040" - .160" |
| .39" - .55" | **4017** | 1.02" | .25" | .93" | .91" | .040" - .160" |
| .55" - .79" | **4018** | 1.34" | .26" | 1.02" | 1.14" | .040" - .160" |
| .79" - 1.02" | **4019** | 1.81" | .27" | 1.18" | 1.50" | .040" - .160" |
| 1.02" - 1.38" | **4020** | 2.26" | .31" | 1.42" | 1.89" | .040" - .160" |

- **Provides light strain relief to the cable.**
- **Simple to install; snap in panel, pierce membrane, pull cable through.**
- **Can also be used as liquid tight plug.**






Snap Into Panel | Cut as shown and Insert Cable | Pull Back Cable to Form Seal

**Installation**

**Material:** Neoprene, Gray
**Certifications:** Fire tested to FMVSS 302, Vehicle Safety Norm 302
Protection Class IP 67 per EN 60529

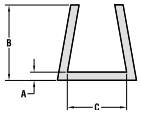
**Material:** Nylon **Flammability Rating:** 94HB

## FLEXIBLE GROMMETTING

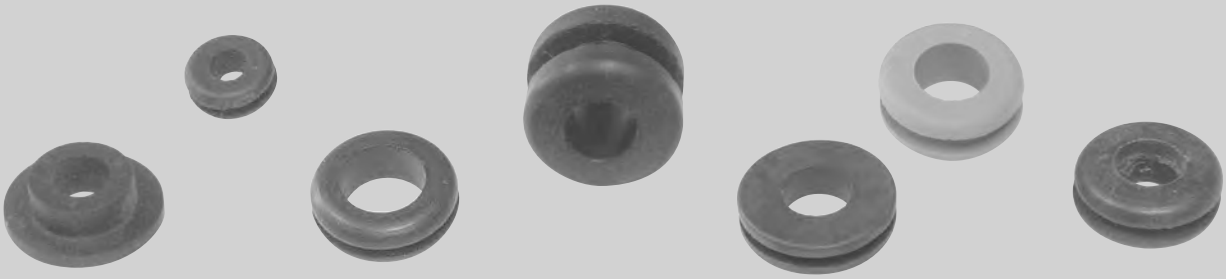
| PART NUMBER | | DIMENSIONS | | | MOUNTING |
|---|---|---|---|---|---|
| BLACK | NATURAL | THICKNESS "A" | OUTSIDE DEPTH "B" | INSIDE WIDTH "C" | MAXIMUM PANEL THICKNESS |
| **2220** | **2221** | .032" | .125" | .031" | .036" |
| **2222** | **2223** | .032" | .173" | .109" | .071" |
| **2224** | **2225** | .032" | .173" | .109" | .105" |
| **2226** | **2227** | .047" | .189" | .156" | .164" |
| **2228** | **2229** | .047" | .189" | .187" | .187" |
| **2230** | **2231** | .047" | .189" | .250" | .250" |

- **Protects and insulates wires from sharp panel edges.**
- **Serrated design is ideal for irregular hole shapes.**
- **Grommetting grips panel edge. Epoxy can be added for additional grip strength.**



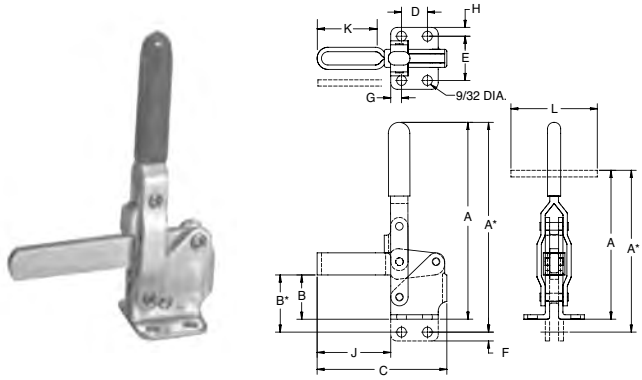




**Clancey offers a full line of grommets and bushings made from rubber compounds. Please call for samples or information.**

## HOLD DOWN VERTICAL




**This popular style of clamp includes solid bar and U-Bar construction. Each clamp accepts all 5/16-18 diameter spindles. Each clamp is supplied with a 70947 neoprene tipped spindle assembly. The vertical handle type is supplied with a blue vinyl handle.**

- **Holding capacity: 500 lbs. max.**
- **Weight: 11 oz.**
- **Handle moves 60°, bar 100°**
- **Solid Bar: 5/8" height, 1/4" wide**
- **U-Bar: 5/8" height, 21/64" inside width**
- **Horizontal spindle adjustment: 1 1/2"**
- **Spindle Thread: 5/16-18**

| PART NUMBER | A | B | C | D | E | F | G | H | J | Handle Type | Bar Type | Base Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **70350** | 5 5/8 | 1 1/4 | 4 | 3/4 | 1.25 | — | 5/16 | 1/4 | 2.25 | Vertical | Solid | Flange |
| **70355** | 5 15/16 | 1 9/16 | 4 | 3/4 | — | 1/4 | 5/16 | — | 2.25 | Vertical | Solid | Straight |
| **70360** | 4 1/16 | 1 1/4 | 4 | 3/4 | 1.25 | — | 5/16 | 1/4 | 2.25 | Tee | Solid | Flange |
| **70365** | 5 5/8 | 1 1/4 | 5 1/4 | 3/4 | 1.25 | — | 5/16 | 1/4 | 3.4375 | Vertical | Solid | Flange |
| **71020** | 4 1/16 | 1 9/16 | 3 3/4 | 3/4 | — | 1/4 | 5/16 | 1/4 | 2 1/4 | Tee | Solid | Straight |
| **71021** | 5 5/8 | 1 9/16 | 4 1/8 | 3/4 | — | 1/4 | 5/16 | 1/4 | 3 7/16 | Vertical | Solid | Straight |
| **71022** | 4 1/16 | 1 9/16 | 4 1/8 | 3/4 | — | 1/4 | 5/16 | 1/4 | 3 7/16 | Tee | Solid | Straight |
| **71023** | 4 1/16 | 1 1/4 | 4 1/8 | 3/4 | 1.25 | 1/4 | 5/16 | 1/4 | 3 7/16 | Tee | Solid | Flange |
| **70380** | 5 5/8 | 1 1/4 | 4 | 3/4 | 1.25 | — | 5/16 | 1/4 | 2.25 | Vertical | U-Bar | Flange |
| **70385** | 6 5/16 | 1 9/16 | 4 | 3/4 | — | 1/4 | 5/16 | — | 2.25 | Vertical | U-Bar | Straight |
| **70390** | 4 1/16 | 1 1/4 | 4 | 3/4 | 1.25 | — | 5/16 | 1/4 | 2.25 | Tee | U-Bar | Flange |
| **70395** | 5 5/8 | 1 1/4 | 5 1/2 | 3/4 | 1.25 | — | 5/16 | 1/4 | 3.75 | Vertical | U-Bar | Flange |
| **71024** | 4 5/8 | 1 9/16 | 3 3/4 | 3/4 | — | 1/8 | 5/16 | 1/4 | 2 1/4 | Tee | U-Bar | Straight |
| **71025** | 6 5/16 | 1 9/16 | 4 7/16 | 3/4 | — | 1/8 | 5/16 | 1/4 | 3 3/4 | Vertical | U-Bar | Straight |
| **71026** | 4 5/8 | 1 9/16 | 4 7/16 | 3/4 | — | 1/8 | 5/16 | 1/4 | 3 3/4 | Tee | U-Bar | Straight |
| **71027** | 4 1/16 | 1 1/4 | 4 7/16 | 3/4 | 1.25 | — | 5/16 | 1/4 | 3 3/4 | Tee | U-Bar | Flange |

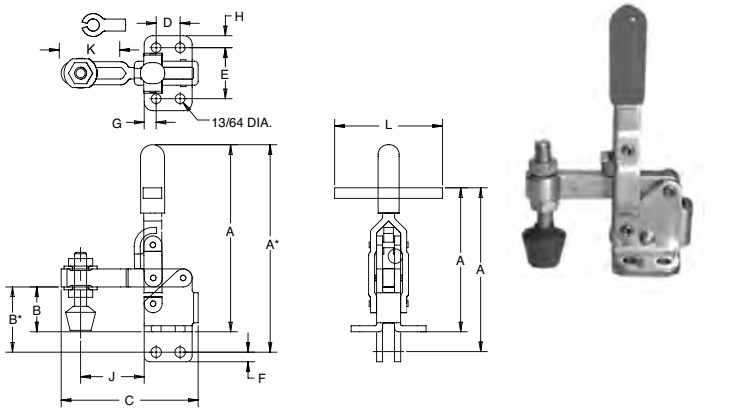
*Straight base type dimension. Note: Width of tee handle is 3 5/8".
- Solid arm models include a bolt retainer
- U-Bar models include 2 flange washers

**Clancey can provide crossover information for Carr Lane and De-Sta-Co.**

## HOLD DOWN VERTICAL

**This clamp has a narrow bar with a stationary spindle that accepts all 1/4-20 diameter spindles. Each clamp is supplied with a 70926 neoprene tipped spindle assembly. The vertical handle type is supplied with a blue vinyl handle.**

- **Holding capacity: 200 lbs. max.**
- **Weight: 6 oz.**
- **Handle moves 60°, bar 117°**
- **Solid Bar: 3/8" height, 7/32" wide**
- **Spindle Thread: 1/4-20**




| PART NUMBER | A | B | C | D | E | F | G | H | J | Handle Type | Bar Type | Base Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **70330** | 3 3/4 | 15/16 | 2 9/16 | 1/2 | 1 1/16 | — | 1/4 | 1/4 | 1 1/16 | Vertical | Solid | Flange |
| **70335** | 3 15/16 | 1 1/8 | 2 9/16 | 1/2 | — | 1/4 | 1/4 | 1/4 | 1 1/16 | Vertical | Solid | Straight |
| **70340** | 2 13/16 | 15/16 | 2 9/16 | 1/2 | 1 1/16 | — | 1/4 | 1/4 | 1 1/16 | Tee | Solid | Flange |
| **71016** | 2 13/16 | 1 1/8 | 2 9/16 | 1/2 | — | 1/4 | 1/4 | 1/4 | 1 1/16 | Tee | Solid | Straight |

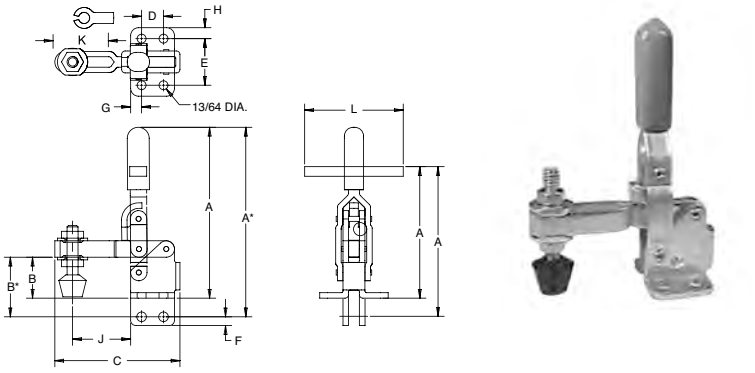
*Straight base type dimension
• Solid arm models include a bolt retainer

Note: Width of tee handle is 2 9/16"
• U-Bar models include 2 flange washers

---

**This vertical clamp is equipped with a 1/4-20 spindle which has a tip, washers, and locknut for easy clamping. A blue vinyl handle is included. Each clamp is supplied with a 70926 vinyl coated spindle assembly with washer.**

- **Holding capacity: 250 lbs.**
- **Weight: 6 oz.**
- **Handle moves 64°, bar 104°**
- **U-Bar: 3/8" height, 1/4" inside width**
- **Horizontal spindle adjustment: 1 1/8"**
- **Spindle Thread: 1/4-20**
- **Spindle Number: 70926**



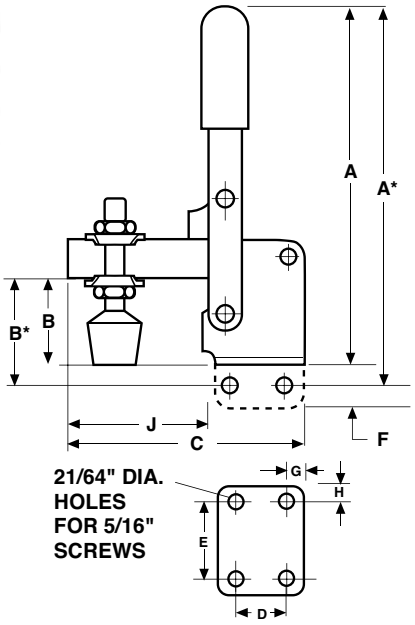

| PART NUMBER | A | B | C | D | E | F | G | H | J | Handle Type | Bar Type | Base Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **70342** | 4 | 15/16 | 3 | 1/2 | 1/16 | — | 1/4 | 1/4 | 1 3/4 | Vertical | U-Bar | Flange |
| **71017** | 4 | 1 1/8 | 3 | 1/2 | — | 9/32 | 1/4 | 1/4 | 1 3/4 | Vertical | U-Bar | Straight |
| **71018** | 2 13/16 | 1 1/8 | 3 | 1/2 | — | 9/32 | 1/4 | 1/4 | 1 3/4 | Tee | U-Bar | Straight |
| **71019** | 2 13/16 | 15/16 | 3 | 1/2 | 1/16 | — | 1/4 | 1/4 | 1 3/4 | Tee | U-Bar | Flange |

*Straight base type dimension
• Solid arm models include a bolt retainer

Note: Width of tee handle is 2 9/16"
• U-Bar models include 2 flange washers

## HOLD DOWN VERTICAL






**This large capacity clamp is available in solid bar and U-Bar construction. It accepts all 3/8-16 diameter spindles. The solid bar clamp is supplied with a 70910 bolt retainer and 70915 neoprene tipped spindle assembly. The U-Bar style is supplied with 2 flanged washers and the 70915 spindle assembly. The vertical handle type is supplied with a blue vinyl handle.**

- **Holding capacity: 750 lbs. max.**
- **Weight: 1 lb., 5 oz.**
- **Handle moves 58°, bar 106°**
- **Solid Bar: 3/4" height, 5/16" wide**
- **U-Bar: 3/4" height, 7/16" inside width**
- **Horizontal spindle adjustment: 2 9/16"**
- **Spindle Thread: 3/8-16**

| PART NUMBER | A | B | C | D | E | F | G | H | J | Handle Type | Bar Type | Base Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **70420** | 7 3/4 | 1 11/16 | 5 1/2 | 1 1/4 | 1 25/32 | — | 21/64 | 3/8 | 3 19/32 | Vertical | Solid | Flange |
| **70425** | 8 1/4 | 2 3/16 | 5 1/2 | 1 1/4 | — | 3/8 | 21/64 | — | 3 19/32 | Vertical | Solid | Straight |
| **70430** | 5 1/4 | 1 11/16 | 5 1/2 | 1 1/4 | 1 25/32 | — | 21/64 | 3/8 | 3 19/32 | Tee | Solid | Flange |
| **71028** | 6 1/8 | 2 3/16 | 5 1/2 | 1 1/4 | — | 3/8 | 21/64 | — | 3 19/32 | Tee | Solid | Straight |
| **70440** | 7 3/4 | 1 11/16 | 5 1/2 | 1 1/4 | 1 25/32 | — | 21/64 | 3/8 | 3 17/32 | Vertical | U-Bar | Flange |
| **70445** | 8 1/4 | 2 3/16 | 5 1/2 | 1 1/4 | — | 3/8 | 21/64 | — | 3 17/32 | Vertical | U-Bar | Straight |
| **70450** | 5 1/4 | 1 11/16 | 5 1/2 | 1 1/4 | 1 25/32 | — | 21/64 | 3/8 | 3 17/32 | Tee | U-Bar | Flange |
| **71029** | 6 1/8 | 2 3/16 | 5 1/2 | 1 1/4 | — | 3/8 | 21/64 | — | 3 17/32 | Tee | U-Bar | Straight |

*Straight base type dimension

Note: Width of tee handle is 5"

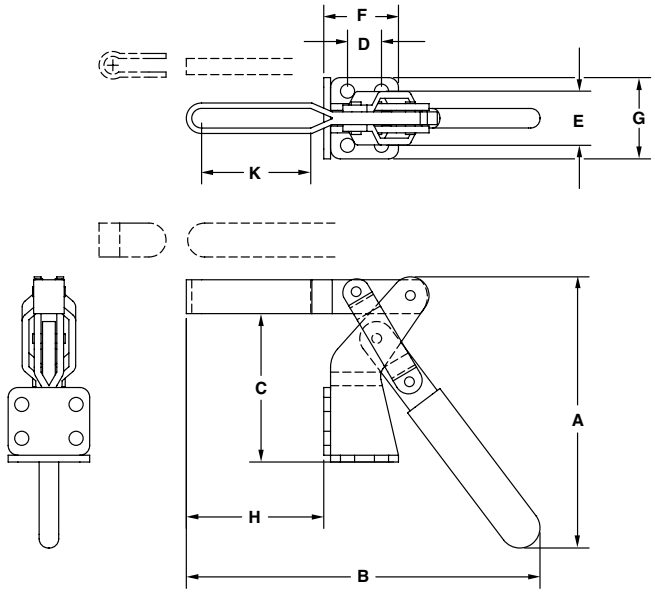
**Clancey can provide crossover information for Carr Lane and De-Sta-Co.**

## HOLD DOWN VERTICAL

**This clamp is available with a solid or U-Bar model. It features both a horizontal and vertical mounting surface. A neoprene tipped spindle assembly is included with both models. A bolt retainer is furnished with the solid bar model.**

- **Holding capacity: 220 lbs. max.**
- **U-Bar: 5/8" height, 11/32" inside width**
- **Spindle Thread: 5/16-18**





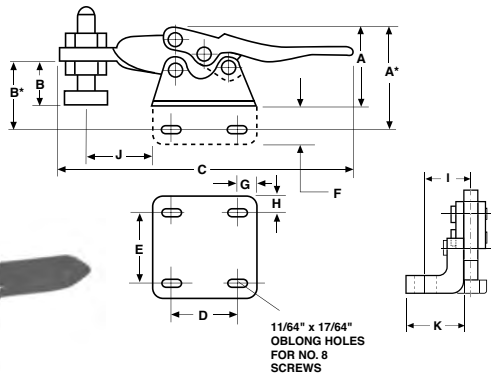

**Clancey can provide crossover information for Carr Lane and De-Sta-Co.**

| PART NUMBER | A | B | C | D | E | F | G | H | K | Bar Type | Wt. (oz.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **70285** | 5 1/2 | 6 1/16 | 2 3/4 | 5/8 | 1 | 1 3/8 | 1 1/2 | 2 1/2 | 2 | U-Bar | 15 |
| **71037** | 5 1/2 | 6 7/16 | 2 3/4 | 5/8 | 1 | 1 3/8 | 1 1/2 | 2 1/2 | — | Solid | 16 |

- Solid arm models include a bolt retainer
- U-Bar models include 2 flange washers

## HOLD DOWN HORIZONTAL






**The small size of this clamp is ideal for jobs requiring minimal hold down force. Available in solid or U-Bar construction. All models are supplied with 70962 nylon spindle assemblies and blue vinyl handles.**

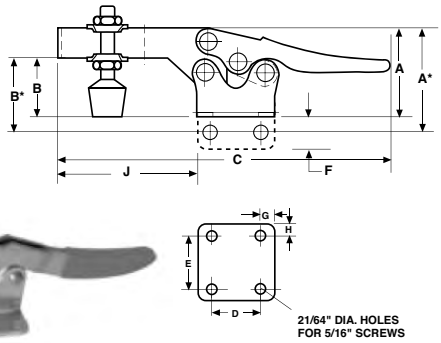
- **Holding capacity: 60 lbs.**
- **Weight: 1 oz.**
- **Handle moves 80°, bar 90°**
- **Solid Bar: 3/32" height, 1/4" wide**
- **U-Bar: 1/4" height, 3/16" inside width**
- **U-Bar horizontal spindle adjustment: 3/8"**
- **Spindle Thread: 8-32**

| PART NUMBER | S.S. Part No. | A | B | C | D | E | F | G | H | J | I | K | Bar Type | Base Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **70210** | — | 3/4 | 13/32 | 2 3/4 | 5/8 | 5/8 | — | 5/32 | 5/32 | 11/16 | — | — | Solid | Flange |
| **70211** | — | 3/4 | 13/32 | 2 3/4 | 5/8 | — | — | 5/32 | 5/32 | 21/32 | 3/8 | 1/2 | Solid | 1/2 Flange-Left |
| **71001** | — | 3/4 | 13/32 | 2 3/4 | 5/8 | — | — | 5/32 | 5/32 | 21/32 | 3/8 | 1/2 | Solid | 1/2 Flange-Right |
| **70215** | — | 15/16 | 19/32 | 2 3/4 | 5/8 | — | 11/32 | 5/32 | 5/32 | 11/16 | — | — | Solid | Straight |
| **70230** | 71002 | 3/4 | 5/16 | 2 21/32 | 5/8 | 5/8 | — | 5/32 | 5/32 | 11/16 | — | — | U-Bar | Flange |
| **70231** | — | 3/4 | 5/16 | 2 3/4 | 5/8 | — | — | 5/32 | 5/32 | 21/32 | 3/8 | 1/2 | U-Bar | 1/2 Flange-Left |
| **71003** | — | 3/4 | 5/16 | 2 3/4 | 5/8 | — | — | 5/32 | 5/32 | 21/32 | 3/8 | 1/2 | U-Bar | 1/2 Flange-Right |
| **70235** | — | 15/16 | 1/2 | 2 21/32 | 5/8 | — | 11/32 | 5/32 | 5/32 | 11/16 | — | — | U-Bar | Straight |

*Straight base type dimension
• Solid arm models include a bolt retainer

Note: J dimension goes all the way to end of the U-Bar models
• U-Bar models include 2 flange washers






**This horizontal clamp is available with U-Bar construction in a flanged or straight base. Supplied with a 70915 neoprene tipped spindle assembly. Both models supplied with a blue vinyl handle.**

- **Holding capacity: 750 lbs. max.**
- **Weight: 1 lb., 8 oz.**
- **Handle moves 55°, bar 90°**
- **U-Bar: 3/4" height, 7/16" inside width**
- **Horizontal spindle adjustment: 2 1/4"**
- **Spindle Thread: 3/8-16**

| PART NUMBER | A | B | C | D | E | F | G | H | J | Bar Type | Base Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **70270** | 2 1/2 | 1 3/4 | 10 1/4 | 1 5/8 | 1 5/8 | — | 5/16 | 5/16 | 4 1/8 | U-Bar | Flange |
| **70275** | 3 1/16 | 2 3/8 | 10 1/4 | 1 5/8 | — | 7/8 | 5/16 | 5/16 | 4 1/8 | U-Bar | Straight |

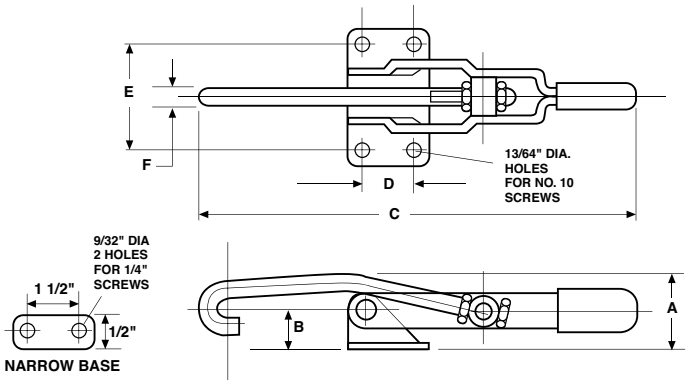
*Straight base type dimension

• U-Bar models include 2 flange washers

**The adjustable hook is ideal for latching, locking or fastening doors, fixtures, pressure vessels, covers, and hatches on storage tanks. The hook bar has a 4" pull and is threaded for convenient adjustment. This clamp is furnished with a blue vinyl handle.**

## PULL ACTION






**Note: Longer Hook Lengths Available Upon Request**
**Note: 70580 is a narrow base 1/2" wide**

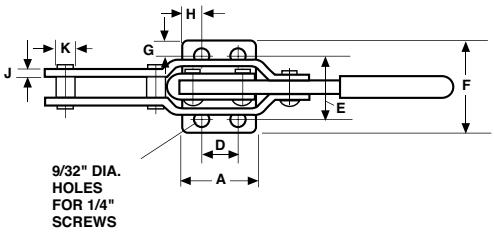
**Clancey can provide crossover information for Carr Lane and De-Sta-Co.**

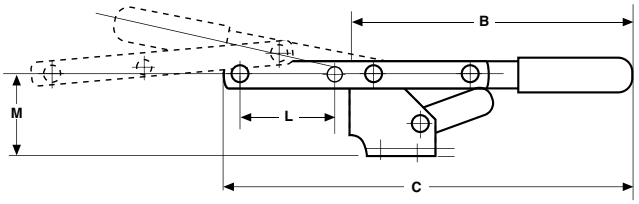
| PART NUMBER | A | B | C | D | E | F | Drawing Movement | Holding Capacity (lbs) | Wt. (oz.) |
|---|---|---|---|---|---|---|---|---|---|
| **70570** | 1 7/16 | 3/4 | 8 5/16 | 3/4 | 1 3/8 | 5/16 | 4 | 375 | 10 |
| **70580** | 1 7/16 | 3/4 | 8 5/16 | 1 1/2 | — | 5/16 | 4 | 375 | 10 |
| **71039** | 2 5/8 | 1 13/16 | 13 1/4 | 1 1/8 | 2 3/8 | 1/2 | 6 1/8 | 990 | 16 |

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**Ideal for locking and fastening on fixtures. Adjustable stop permits positioning of handle to limit travel once the clamp is installed. 4" drawing movement valuable for a wide range of applications.**



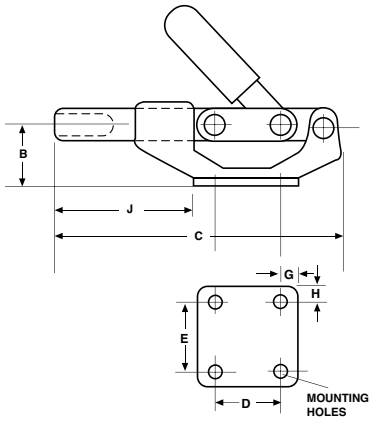



| PART NUMBER | A | B | C | D | E | F | G | H | J | K | L | M | Holding Capacity (lbs) | Wt. (oz.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **70550** | 1 3/8 | 5 11/16 | 8 5/16 | 3/4 | 1 1/4 | 1 3/4 | 1/4 | 5/16 | 1/8 | 3/8 | 1 7/8 | 1 5/8 | 375 | 12 |
| **70555** | 1 7/8 | 4 5/8 | 9 5/8 | 1 1/4 | 1 25/32 | 2 1/2 | 3/8 | 11/32 | 1/8 | 3/8 | 1 7/8 | 2 1/16 | 1,200 | 18 |

### STRAIGHT LINE



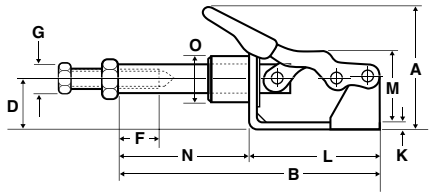


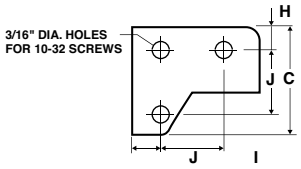

**This straight-line extra heavy duty clamp is constructed of malleable iron castings and cold rolled steel. The pivot joints are stainless steel. The mounting base is precision machined for flatness. A blue vinyl handle is included.**

- **Holding capacity: 500 lbs.**
- **Weight: 14 oz.**
- **Plunger travel: 1 3/16”**
- **Plunger tapped: 5/16-18 X 1 1/8” deep**

**Clancey can provide crossover information for Carr Lane and De-Sta-Co.**

| PART NUMBER | B | C | D | E | G | H | J | Mounting Holes |
|---|---|---|---|---|---|---|---|---|
| **70810** | 1 | 4 3/4 | 1 3/8 | 1 5/8 | 5/16 | 5/16 | 2 1/4 | 9/32 |
| **70815** | 1 | 4 3/4 | 1 7/16 | 1 5/16 | 5/16 | 5/16 | 2 1/4 | 7/32 |






**This light duty clamp is equipped with an 8-32 tapped plunger. A blue vinyl handle is included.**

- **Holding capacity: 90 lbs.**
- **Weight: 1.5 oz.**
- **Plunger travel: 5/8”**
- **Plunger tapped: 8-32 X 15/32” deep**

| PART NUMBER | A | B | C | D | F | G | H | I | J | K | L | M | N | O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **70818** | 1 7/32 | 2 21/32 | 1 1/16 | 1/2 | 15/32 | 1/4 | 7/32 | 5/16 | 5/8 | 3/32 | 1 11/32 | 13/16 | 1 9/32 | 7/16 |

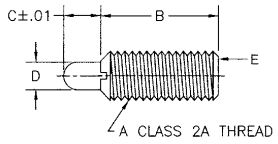
**Unlike conventional spring plungers, the body of a Solid Drive Plunger is machined in one piece. The spring is assembled from the top so that there is no need for a set screw. Solid Drive Plungers do not have a set screw which can loosen or separate from the plunger body. The advantage is no lost springs, no need for "easy-out" tools. When adjusting Solid Drive, you can be sure the plunger body is turning and not a set screw.**

- **Single unit construction**
- **No set screw to separate from plunger body**
- **Better reliability**
- **Steel tips are case hardened steel**
- **Close tolerance between tip and body**

## SPRING PLUNGERS INCH



Hex drive in rear for spring plunger insertion.




- Material: Body – Low Carbon Steel, Black Oxide or 303-Stainless Steel
  Tip – Steel or Stainless Steel
- Thread: 2A-UNC
- 3D Solid Models are available in multiple formats
- Conforms to TCMA dimensional standards

Plunger tips are color coded to indicate light or heavy force:
Silver = Steel Tip, Light Force
Black = Steel Tip, Heavy Force

### Inch - Steel & Stainless Steel Tip With Locking Element

| SS PART NUMBER | STEEL PART NUMBER | Thread Size A | Initial Force (lbs) | Final Force (lbs) | B | C | D | Hex Size E |
|---|---|---|---|---|---|---|---|---|
| **27336** | **27321** | 6-32 | 0.5 | 1.5 | 17/32 | 1/16 | 0.046 | 3/64 |
| **26936** | **26921** | 6-32 | 1.5 | 4.5 | 17/32 | 1/16 | 0.046 | 3/64 |
| **27337** | **27322** | 8-32 | 0.7 | 2.3 | 5/8 | 3/32 | 0.070 | 5/64 |
| **26937** | **26922** | 8-32 | 2.7 | 7.3 | 5/8 | 3/32 | 0.070 | 5/64 |
| **27338** | **27323** | 10-32 | 1.3 | 2.7 | 3/4 | 1/8 | 0.093 | 3/32 |
| **26938** | **26923** | 10-32 | 2.9 | 11.1 | 3/4 | 1/8 | 0.093 | 3/32 |
| **27339** | **27324** | 1/4-20 | 1.0 | 4.0 | 1 | 3/16 | 0.119 | 1/8 |
| **26939** | **26924** | 1/4-20 | 3.0 | 13.0 | 1 | 3/16 | 0.119 | 1/8 |
| **27340** | **27325** | 1/4-28 | 1.0 | 4.0 | 1 | 3/16 | 0.119 | 1/8 |
| **26940** | **26925** | 1/4-28 | 3.0 | 13.0 | 1 | 3/16 | 0.119 | 1/8 |
| **27341** | **27326** | 5/16-18 | 1.5 | 4.5 | 1 | 3/16 | 0.135 | 5/32 |
| **26941** | **26926** | 5/16-18 | 3.0 | 15.0 | 1 | 3/16 | 0.135 | 5/32 |
| **27342** | **27327** | 3/8-16 | 2.8 | 7.2 | 1 1/8 | 3/16 | 0.186 | 3/16 |
| **26942** | **26927** | 3/8-16 | 5.5 | 14.5 | 1 1/8 | 3/16 | 0.186 | 3/16 |
| **27343** | **27328** | 1/2-13 | 2.7 | 9.3 | 1 1/4 | 1/4 | 0.248 | 1/4 |
| **26943** | **26928** | 1/2-13 | 6.6 | 17.4 | 1 1/4 | 1/4 | 0.248 | 1/4 |
| **27344** | **27329** | 5/8-11 | 3.5 | 10.5 | 1 1/2 | 5/16 | 0.310 | 5/16 |
| **26944** | **26929** | 5/8-11 | 10.5 | 25.5 | 1 1/2 | 5/16 | 0.310 | 5/16 |
| **27345** | **27330** | 3/4-10 | 5.5 | 14.5 | 1 3/4 | 5/16 | 0.374 | 3/8 |
| **26945** | **26930** | 3/4-10 | 6.7 | 37.3 | 1 3/4 | 5/16 | 0.374 | 3/8 |
| **—** | **27311*** | 1-8 | 10.0 | 25.0 | 2 13/32 | 1/2 | 0.499 | 3/8 |
| **—** | **26911*** | 1-8 | 16.0 | 68.0 | 2 13/32 | 1/2 | 0.499 | 3/8 |

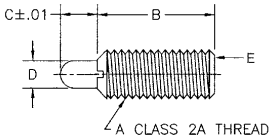
### Without Locking Element

| SS PART NUMBER | STEEL PART NUMBER |
|---|---|
| **27031** | **27221** |
| **27011** | **26821** |
| **27032** | **27222** |
| **27012** | **26822** |
| **27033** | **27223** |
| **27013** | **26823** |
| **27034** | **27224** |
| **27014** | **26824** |
| **27035** | **27225** |
| **27015** | **26825** |
| **27036** | **27226** |
| **27016** | **26826** |
| **27037** | **27227** |
| **27017** | **26827** |
| **27038** | **27228** |
| **27018** | **26828** |
| **27039** | **27229** |
| **27019** | **26829** |
| **27040** | **27230** |
| **27020** | **26830** |
| **—** | **27211*** |
| **—** | **26811*** |

* Not available in DRIVE construction.
NOTE: For easy insertion of Spring Plungers with locking elements, the tapped hole should be countersunk at least .030-.045" (0.76-1.14mm) larger than the major diameter of the plunger.

## SPRING PLUNGERS INCH - DELRIN TIP

Hex drive in rear for spring plunger insertion.






- Material: Body – Low Carbon Steel, Black Oxide or 303-Stainless Steel
  Tip – SDelrin
- Thread: 2A-UNC
- 3D Solid Models are available in multiple formats
- Conforms to TCMA dimensional standards

Plunger tips are color coded to indicate light or heavy force:
White = Delrin Tip, Light Force
Blue = Delrin Tip, Heavy Force

**Unlike conventional spring plungers, the body of a Solid Drive Plunger is machined in one piece. The spring is assembled from the top so that there is no need for a set screw. Solid Drive Plungers do not have a set screw which can loosen or separate from the plunger body. The advantage is no lost springs, no need for "easy-out" tools. When adjusting Solid Drive, you can be sure the plunger body is turning and not a set screw.**

- **Single unit construction**
- **No set screw to separate from plunger body**
- **No need for "easy-out" tools**
- **Better reliability**
- **Steel tips are case hardened steel**
- **Close tolerance between tip and body**

### Inch - Derlin Tip With Locking Element

| SS PART NUMBER | STEEL PART NUMBER | Thread Size A | Initial Force (lbs) | Final Force (lbs) | B | C | D | Hex Size E |
|---|---|---|---|---|---|---|---|---|
| **30936** | **30921** | 6-32 | 0.5 | 1.5 | 17/32 | 1/16 | 0.046 | 3/64 |
| **30536** | **30521** | 6-32 | 1.5 | 4.5 | 17/32 | 1/16 | 0.046 | 3/64 |
| **30937** | **30922** | 8-32 | 0.7 | 2.3 | 5/8 | 3/32 | 0.070 | 5/64 |
| **30537** | **30522** | 8-32 | 2.7 | 7.3 | 5/8 | 3/32 | 0.070 | 5/64 |
| **30938** | **30923** | 10-32 | 1.3 | 2.7 | 3/4 | 1/8 | 0.093 | 3/32 |
| **30538** | **30523** | 10-32 | 2.9 | 11.1 | 3/4 | 1/8 | 0.093 | 3/32 |
| **30939** | **30924** | 1/4-20 | 1.0 | 4.0 | 1 | 3/16 | 0.119 | 1/8 |
| **30539** | **30524** | 1/4-20 | 3.0 | 13.0 | 1 | 3/16 | 0.119 | 1/8 |
| **30940** | **30925** | 1/4-28 | 1.0 | 4.0 | 1 | 3/16 | 0.119 | 1/8 |
| **30540** | **30525** | 1/4-28 | 3.0 | 13.0 | 1 | 3/16 | 0.119 | 1/8 |
| **30941** | **30926** | 5/16-18 | 1.5 | 4.5 | 1 | 3/16 | 0.135 | 5/32 |
| **30541** | **30526** | 5/16-18 | 3.0 | 15.0 | 1 | 3/16 | 0.135 | 5/32 |
| **30942** | **30927** | 3/8-16 | 2.8 | 7.2 | 1 1/8 | 3/16 | 0.186 | 3/16 |
| **30542** | **30527** | 3/8-16 | 5.5 | 14.5 | 1 1/8 | 3/16 | 0.186 | 3/16 |
| **30943** | **30928** | 1/2-13 | 2.7 | 9.3 | 1 1/4 | 1/4 | 0.248 | 1/4 |
| **30543** | **30528** | 1/2-13 | 6.6 | 17.4 | 1 1/4 | 1/4 | 0.248 | 1/4 |
| **30944** | **30929** | 5/8-11 | 3.5 | 10.5 | 1 1/2 | 5/16 | 0.310 | 5/16 |
| **30544** | **30529** | 5/8-11 | 10.5 | 25.5 | 1 1/2 | 5/16 | 0.310 | 5/16 |
| **30945** | **—** | 3/4-10 | 5.5 | 14.5 | 1 /34 | 5/16 | 0.374 | 3/8 |
| **30545** | **—** | 3/4-10 | 6.7 | 37.3 | 1 3/4 | 5/16 | 0.374 | 3/8 |

### Without Locking Element

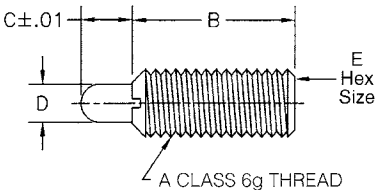
| SS PART NUMBER | STEEL PART NUMBER |
|---|---|
| **30510** | **30821** |
| **30500** | **30421** |
| **30511** | **30822** |
| **30501** | **30422** |
| **30512** | **30823** |
| **30502** | **30423** |
| **30513** | **30824** |
| **30503** | **30424** |
| **30514** | **30825** |
| **30504** | **30425** |
| **30515** | **30826** |
| **30505** | **30426** |
| **30516** | **30827** |
| **30506** | **30427** |
| **30517** | **30828** |
| **30507** | **30428** |
| **30518** | **30829** |
| **30508** | **30429** |
| **30519** | **—** |
| **30509** | **—** |

NOTE: For easy insertion of Spring Plungers with locking elements, the tapped hole should be countersunk at least .030-.045" (0.76-1.14mm) larger than the major diameter of the plunger.

**Unlike conventional spring plungers, the body of a Solid Drive Plunger is machined in one piece. The spring is assembled from the top so that there is no need for a set screw. Solid Drive Plungers do not have a set screw which can loosen or separate from the plunger body. The advantage is no lost springs, no need for "easy-out" tools. When adjusting Solid Drive, you can be sure the plunger body is turning and not a set screw.**

## SPRING PLUNGERS METRIC






The hex drive in the rear of the spring plunger is for plunger insertion.

- Material: Body – Low Carbon Steel, Black Oxideor 303-Stainless Steel
  Tip – Steel or Stainless Steel
- Thread: 2A-UNC
- 3D Solid Models are available in multiple formats
- Conforms to TCMA dimensional standards

### Metric - Steel & Stainless Steel Tip With Locking Element

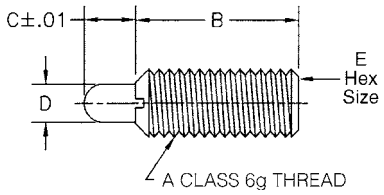
| SS PART NUMBER | STEEL PART NUMBER | Thread Size A | Initial Force (kg) | Final Force (kg) | B | C | D | Hex Size E |
|---|---|---|---|---|---|---|---|---|
| **30890** | **27250** | M4 x 0.7 | 0.32 | 1.04 | 16 | 2.5 | 1.78 | 2.0 |
| **30490** | **26850** | M4 x 0.7 | 1.22 | 3.29 | 16 | 2.5 | 1.78 | 2.0 |
| **30891** | **27251** | M5 x 0.8 | 0.59 | 1.22 | 19 | 3.0 | 2.36 | 2.5 |
| **30491** | **26851** | M5 x 0.8 | 1.31 | 5.00 | 19 | 3.0 | 2.36 | 2.5 |
| **30892** | **27252** | M6 x 1.0 | 0.45 | 1.80 | 25 | 5.0 | 3.02 | 3.0 |
| **30492** | **26852** | M6 x 1.0 | 1.35 | 5.85 | 25 | 5.0 | 3.02 | 3.0 |
| **30893** | **27253** | M8 x 1.25 | 0.68 | 2.03 | 25 | 5.0 | 3.43 | 4.0 |
| **30493** | **26853** | M8 x 1.25 | 1.35 | 6.75 | 25 | 5.0 | 3.43 | 4.0 |
| **30894** | **27254** | M10 x 1.5 | 1.26 | 3.26 | 29 | 5.0 | 4.72 | 5.0 |
| **30494** | **26854** | M10 x 1.5 | 2.48 | 6.53 | 29 | 5.0 | 4.72 | 5.0 |
| **30895** | **27255** | M12 x 1.75 | 1.22 | 4.21 | 32 | 6.0 | 6.30 | 6.0 |
| **30495** | **26855** | M12 x 1.75 | 2.97 | 7.83 | 32 | 6.0 | 6.30 | 6.0 |
| **30897** | **27257** | M16 x 2.0 | 1.58 | 4.76 | 38 | 8.0 | 7.87 | 8.0 |
| **30497** | **26857** | M16 x 2.0 | 4.73 | 11.48 | 38 | 8.0 | 7.87 | 8.0 |
| **30898** | **27258** | M20 x 2.5 | 2.50 | 6.58 | 44 | 8.0 | 9.50 | 10.0 |
| **30498** | **26858** | M20 x 2.5 | 3.05 | 16.95 | 44 | 8.0 | 9.50 | 10.0 |

### Without Locking Element

| SS PART NUMBER | STEEL PART NUMBER |
|---|---|
| **30880** | **27270** |
| **30480** | **26870** |
| **30881** | **27271** |
| **30481** | **26871** |
| **30882** | **27272** |
| **30482** | **26872** |
| **30883** | **27273** |
| **30483** | **26873** |
| **30884** | **27274** |
| **30484** | **26874** |
| **30885** | **27275** |
| **30485** | **26875** |
| **30887** | **27277** |
| **30487** | **26877** |
| **30888** | **27278** |
| **30488** | **26878** |

NOTE: For easy insertion of Spring Plungers with locking elements, the tapped hole should be countersunk at least .030-.045" (0.76-1.14mm) larger than the major diameter of the plunger.

## SPRING PLUNGERS METRIC - DELRIN TIP




The hex drive in the rear of the spring plunger is for plunger insertion.



**Unlike conventional spring plungers, the body of a Solid Drive Plunger is machined in one piece. The spring is assembled from the top so that there is no need for a set screw. Solid Drive Plungers do not have a set screw which can loosen or separate from the plunger body. The advantage is no lost springs, no need for "easy-out" tools. When adjusting Solid Drive, you can be sure the plunger body is turning and not a set screw.**

- Material: Body – Low Carbon Steel, Black Oxideor 303-Stainless Steel
  Tip – Derlin
- Thread: 2A-UNC
- 3D Solid Models are available in multiple formats
- Conforms to TCMA dimensional standards

### Metric - Derlin Tip With Locking Element

| SS PART NUMBER | Thread Size A | Initial Force (kg) | Final Force (kg) | B | C | D | Hex Size E |
|---|---|---|---|---|---|---|---|
| 30850 | M4 x 0.7 | 0.32 | 1.04 | 16 | 2.5 | 1.78 | 2.0 |
| 30450 | M4 x 0.7 | 1.22 | 3.29 | 16 | 2.5 | 1.78 | 2.0 |
| 30851 | M5 x 0.8 | 0.59 | 1.22 | 19 | 3.0 | 2.36 | 2.5 |
| 30451 | M5 x 0.8 | 1.31 | 5.00 | 19 | 3.0 | 2.36 | 2.5 |
| 30852 | M6 x 1.0 | 0.45 | 1.80 | 25 | 5.0 | 3.02 | 3.0 |
| 30452 | M6 x 1.0 | 1.35 | 5.85 | 25 | 5.0 | 3.02 | 3.0 |
| 30853 | M8 x 1.25 | 0.68 | 2.03 | 25 | 5.0 | 3.43 | 4.0 |
| 30453 | M8 x 1.25 | 1.35 | 6.75 | 25 | 5.0 | 3.43 | 4.0 |
| 30854 | M10 x 1.5 | 1.26 | 3.26 | 29 | 5.0 | 4.72 | 5.0 |
| 30454 | M10 x 1.5 | 2.48 | 6.53 | 29 | 5.0 | 4.72 | 5.0 |
| 30855 | M12 x 1.75 | 1.22 | 4.21 | 32 | 6.0 | 6.30 | 6.0 |
| 30455 | M12 x 1.75 | 2.97 | 7.83 | 32 | 6.0 | 6.30 | 6.0 |
| 30857 | M16 x 2.0 | 1.58 | 4.76 | 38 | 8.0 | 7.87 | 8.0 |
| 30457 | M16 x 2.0 | 4.73 | 11.48 | 38 | 8.0 | 7.87 | 8.0 |
| 30858 | M20 x 2.5 | 2.50 | 6.58 | 44 | 8.0 | 9.50 | 10.0 |
| 30458 | M20 x 2.5 | 3.05 | 16.95 | 44 | 8.0 | 9.50 | 10.0 |

### Without Locking Element

| STEEL PART NUMBER |
|---|
| 30870 |
| 30470 |
| 30871 |
| 30471 |
| 30872 |
| 30472 |
| 30873 |
| 30473 |
| 30874 |
| 30474 |
| 30875 |
| 30475 |
| 30877 |
| 30477 |
| 30878 |
| 30478 |

NOTE: For easy insertion of Spring Plungers with locking elements, the tapped hole should be countersunk at least .030-.045" (0.76-1.14mm) larger than the major diameter of the plunger.

**Shortie Spring Plungers are made to the same quality standards as the Solid Drive. Made with full standard spring plunger stroke in a short body. A screwdriver slot is substituted for the hex drive due to the smaller size.**

## SHORTIE SPRING PLUNGERS INCH



### Inch - Shortie Spring Plunger With Locking Element

| STEEL TIP | DERLIN TIP | Thread Size A | Initial Force (lbs) | Final Force (lbs) | B | C | D |
|---|---|---|---|---|---|---|---|
| 27101 | 30701 | 6-32 | 0.5 | 1.5 | 3/8 | 1/16 | 0.046 |
| 26701 | 30301 | 6-32 | 0.5 | 3.5 | 3/8 | 1/16 | 0.046 |
| 27102 | 30702 | 8-32 | 0.5 | 2.0 | 1/2 | 3/32 | 0.070 |
| 26702 | 30302 | 8-32 | 0.5 | 4.0 | 1/2 | 3/32 | 0.070 |
| 27103* | 30703* | 10-32 | 0.3 | 3.0 | 9/16 | 1/8 | 0.093 |
| 26703* | 30303* | 10-32 | 0.5 | 5.0 | 9/16 | 1/8 | 0.093 |
| 27104 | 30704 | 1/4-20 | 0.3 | 3.5 | 5/8 | 3/16 | 0.119 |
| 26704 | 30304 | 1/4-20 | 0.5 | 6.0 | 5/8 | 3/16 | 0.119 |
| 27105 | 30705 | 5/16-18 | 0.5 | 4.5 | 5/8 | 3/16 | 0.135 |
| 26705 | 30305 | 5/16-18 | 0.5 | 10.0 | 5/8 | 3/16 | 0.135 |
| 27106 | 30706 | 3/8-16 | 1.5 | 7.5 | 11/16 | 3/16 | 0.186 |
| 26706 | 30306 | 3/8-16 | 1.0 | 12.0 | 11/16 | 3/16 | 0.186 |
| 27107 | 30707 | 1/2-13 | 1.7 | 8.5 | 13/16 | 1/4 | 0.248 |
| 26707 | 30307 | 1/2-13 | 2.5 | 15.0 | 13/16 | 1/4 | 0.248 |
| 27108 | 30708 | 5/8-11 | 2.0 | 10.5 | 1 1/8 | 5/16 | 0.310 |
| 26708 | 30308 | 5/8-11 | 3.5 | 26.0 | 1 1/8 | 5/16 | 0.310 |

**Without Locking Element**

| STEEL TIP | DERLIN TIP |
|---|---|
| 27001 | 30601 |
| 26601 | 30201 |
| 27002 | 30602 |
| 26602 | 30202 |
| 27003* | 30603* |
| 26603* | 30203* |
| 27004 | 30604 |
| 26604 | 30204 |
| 27005 | 30605 |
| 26605 | 30205 |
| 27006 | 30606 |
| 26606 | 30206 |
| 27007 | 30607 |
| 26607 | 30207 |
| 27008 | 30608 |
| 26608 | 30208 |

*Thread: UNF

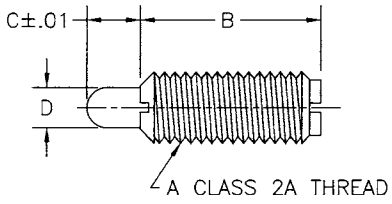
- Material: Body – Low Carbon Steel, Black Oxide
  Tip – Delrin or Steel
- Thread: 2A-UNC
- 3D Solid Models are available in multiple formats
- Conforms to TCMA dimensional standards
- Thread: 2A-UNC
- Available in metric sizes.

### Inch - Stainless Steel With Locking Element

| PART NUMBER | | Thread Size A | Force (lbs) | | B | C | D |
|---|---|---|---|---|---|---|---|
| STEEL TIP | DERLIN TIP | | Initial | Final | | | |
| 27601 | 27621 | 8-32 | .5 | 1.5 | 7/16 | .052 | .070 |
| 27602 | 27622 | 8-32 | 1.5 | 4.75 | 7/16 | .052 | .070 |
| 27603* | 27623* | 8-36 | .5 | 1.5 | 7/16 | .052 | .070 |
| 27604* | 27624* | 8-36 | 1.5 | 4.75 | 7/16 | .052 | .070 |
| 27605 | 27625 | 10-32 | .75 | 2.5 | 15/32 | .065 | .093 |
| 27606 | 27626 | 10-32 | 1.75 | 6.25 | 15/32 | .065 | .093 |
| 27607 | 27627 | 1/4-20 | 1.0 | 3.5 | 17/32 | .078 | .119 |
| 27608 | 27628 | 1/4-20 | 3.0 | 10.5 | 17/32 | .078 | .119 |
| 27609 | 27629 | 5/16-18 | 1.0 | 4.0 | 9/16 | .084 | .135 |
| 27610 | 27630 | 5/16-18 | 3.75 | 15.5 | 9/16 | .084 | .135 |
| 27611 | 27631 | 3/8-16 | 1.5 | 5.0 | 5/8 | .110 | .186 |
| 27612 | 27632 | 3/8-16 | 4.5 | 18.5 | 5/8 | .110 | .186 |
| 27613 | 27633 | 1/2-13 | 1.75 | 5.5 | 3/4 | .151 | .248 |
| 27614 | 27634 | 1/2-13 | 5.0 | 28.0 | 3/4 | .151 | .248 |

*Thread: UNF

## SHORTIE SPRING PLUNGERS STAINLESS STEEL (SHORT TRAVEL)




The slot in the rear of the Shortie Spring Plunger is for insertion.

- Material: Body, 303 Stainless
  Spring, 303 Stainless
  Nose, Stainless or Delrin
- Thread: 2A-UNC

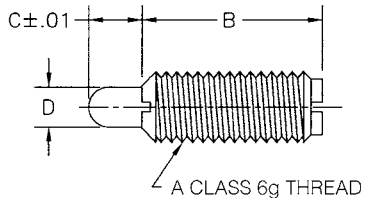
## SHORTIE SPRING PLUNGERS METRIC

**Shortie Spring Plungers are made to the same quality standards as the Solid Drive. Made with full standard spring plunger stroke in a short body.**

**A screwdriver slot is substituted for the hex drive due to the smaller size.**



- Material: Body – Low Carbon Steel, Black Oxide
  Tip – Delrin or Steel
- Thread: Class 6g
- 3D Solid Models are available in multiple formats from
- Plunger Tips are color coded to indicate light or heavy force.
  White = Light Force
  Blue = Heavy Force




**Metric - Shortie Spring Plunger With Locking Element**

| STEEL TIP | DERLIN TIP | Thread Size A | Initial Force (kg) | Final Force (kg) | B | C | D |
|---|---|---|---|---|---|---|---|
| **27170** | **30770** | M4 x 0.7 | 0.23 | 0.91 | 13.0 | 2.5 | 1.78 |
| **26770** | **30370** | M4 x 0.7 | 0.23 | 1.81 | 13.0 | 2.5 | 1.78 |
| **27171** | **30771** | M5 x 0.8 | 0.14 | 1.36 | 14.5 | 3.0 | 2.36 |
| **26771** | **30371** | M5 x 0.8 | 0.23 | 2.27 | 14.5 | 3.0 | 2.36 |
| **27172** | **30772** | M6 x 1.0 | 0.14 | 1.59 | 16.0 | 4.7 | 3.02 |
| **26772** | **30372** | M6 x 1.0 | 0.23 | 2.72 | 16.0 | 4.0 | 3.02 |
| **27173** | **30773** | M8 x 1.25 | 0.23 | 2.04 | 16.0 | 5.0 | 3.43 |
| **26773** | **30373** | M8 x 1.25 | 0.23 | 4.54 | 16.0 | 5.0 | 3.43 |
| **27174** | **30774** | M10 x 1.5 | 0.68 | 3.4 | 17.5 | 4.7 | 4.72 |
| **26774** | **30374** | M10 x 1.5 | 0.46 | 5.44 | 17.5 | 5.0 | 4.72 |
| **27175** | **30775** | M12 x 1.75 | 0.77 | 3.86 | 20.5 | 6.5 | 6.30 |
| **26775** | **30375** | M12 x 1.75 | 1.13 | 6.80 | 20.5 | 6.5 | 6.30 |
| **27177** | **30777** | M16 x 2.0 | 0.91 | 4.76 | 28.5 | 8.0 | 7.87 |
| **26777** | **30377** | M16 x 2.0 | 1.59 | 11.79 | 28.5 | 8.0 | 7.87 |

## PLUNGER WRENCHES

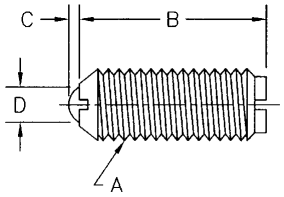


| PART NUMBER | Thread Size of Plungers | |
|---|---|---|
| | Inch | Metric |
| 27501 | 6-32 | — |
| 27502 | 8-32 | M4 |
| 27503 | 10-32 | M5 |
| 27504 | 1/4-20 | M6 |
| 27505 | 5/16-18 | M8 |
| 27506 | 3/8-16 | M10 |
| 27507 | 1/2-13 | M12 |
| 27508 | 5/8-11 | M16 |
| 27509 | 3/4-10 | M20 |
| 27510 | 1-8 | M25 |

**IMPORTANT: It is not recommended that a screwdriver be used to insert ball or spring plungers from the ball or plunger end. The tip of the screwdriver will force the ball or tip of the plunger below the surface of the end of the plunger. This may compress the spring to a solid, causing possible damage to the spring plunger. It is recommended that a Plunger Wrench be used or that a slot be ground in the end of a screwdriver to clear the height of the ball or tip for each size ball or plunger used.**

## BALL PLUNGERS INCH






### Inch – Coarse Thread (UNC) With Locking Element

| SS PART NUMBER | STEEL PART NUMBER | Thread Size A | Initial Force (lbs) | Final Force (lbs) | B | C | D |
|---|---|---|---|---|---|---|---|
| 11102 | 10927 | 5-40 | 0.25 | 0.75 | 1/4 | 0.020 | 0.062 |
| 11201 | 10701 | 10-24 | 0.50 | 1.50 | 33/64 | 0.025 | 0.093 |
| 11211 | 10711 | 10-24 | 1.50 | 3.00 | 33/64 | 0.025 | 0.093 |
| 11202 | 10702 | 10-24 | 2.00 | 5.00 | 33/64 | 0.025 | 0.093 |
| 11108 | 10904 | 1/4-20 | 2.00 | 4.00 | 17/32 | 0.035 | 0.125 |
| 11109 | 10905 | 1/4-20 | 3.00 | 7.00 | 17/32 | 0.035 | 0.125 |
| 11110 | 10906 | 1/4-20 | 4.00 | 12.00 | 17/32 | 0.035 | 0.125 |
| 11111 | 10907 | 5/16-18 | 2.00 | 4.50 | 37/64 | 0.040 | 0.156 |
| 11112 | 10908 | 5/16-18 | 4.00 | 9.00 | 37/64 | 0.040 | 0.156 |
| 11113 | 10909 | 5/16-18 | 6.00 | 17.00 | 37/64 | 0.040 | 0.156 |
| 11114 | 10910 | 3/8-16 | 2.50 | 5.00 | 5/8 | 0.048 | 0.187 |
| 11115 | 10911 | 3/8-16 | 5.00 | 10.00 | 5/8 | 0.048 | 0.187 |
| 11116 | 10912 | 3/8-16 | 6.00 | 21.00 | 5/8 | 0.048 | 0.187 |
| 11117 | 10913 | 1/2-13 | 3.00 | 6.00 | 3/4 | 0.072 | 0.281 |
| 11118 | 10914 | 1/2-13 | 6.00 | 12.00 | 3/4 | 0.072 | 0.281 |
| 11119 | 10915 | 1/2-13 | 6.00 | 30.00 | 3/4 | 0.072 | 0.281 |
| 11120 | 10916 | 5/8-11 | 4.50 | 9.00 | 1 | 0.096 | 0.375 |
| 11121 | 10917 | 5/8-11 | 9.00 | 18.00 | 1 | 0.096 | 0.375 |
| 11122 | 10918 | 5/8-11 | 7.00 | 50.00 | 1 | 0.096 | 0.375 |

### Without Locking Element

| SS PART NUMBER | STEEL PART NUMBER |
|---|---|
| **11002** | **10827** |
| **11221** | **10721** |
| **11231** | **10731** |
| **11222** | **10722** |
| **11008** | **10804** |
| **11009** | **10805** |
| **11010** | **10806** |
| **11011** | **10807** |
| **11012** | **10808** |
| **11013** | **10809** |
| **11014** | **10810** |
| **11015** | **10811** |
| **11016** | **10812** |
| **11017** | **10813** |
| **11018** | **10814** |
| **11019** | **10815** |
| **11020** | **10816** |
| **11021** | **10817** |
| **11022** | **10818** |

- Body Material: Low Carbon Steel, or 303 Stainless Steel
- Ball Material: Stainless, 440
- Spring Material: Stainless, 17-7 PH
- Finish: Black Oxide on Body
- Thread: 2A
- Dimensionally conforms to TCMA standards
- 3D Solid Models are available in multiple formats

NOTE: For easy insertion of Ball Plungers with locking elements, the tapped hole should be countersunk at least .030-.045 (0.76-1.14mm) larger than the major diameter of the plunger.

### Inch – Fine Thread (UNF) With Locking Element

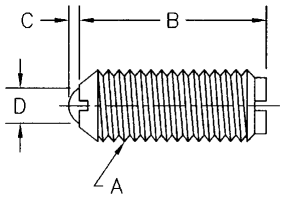
| SS PART NUMBER | STEEL PART NUMBER | Thread Size A | Initial Force (lbs) | Final Force (lbs) | B | C | D |
|---|---|---|---|---|---|---|---|
| 11101 | 10926 | 4-48 | 0.12 | 0.50 | 3/16 | 0.020 | 0.062 |
| 11103 | 10928 | 6-40 | 0.50 | 1.00 | 5/16 | 0.023 | 0.078 |
| 11104 | 10929 | 8-36 | 0.50 | 1.25 | 11/32 | 0.025 | 0.093 |
| 11105 | 10901 | 10-32 | 0.50 | 1.50 | 33/64 | 0.025 | 0.093 |
| 11106 | 10902 | 10-32 | 1.50 | 3.00 | 33/64 | 0.025 | 0.093 |
| 11107 | 10903 | 10-32 | 2.00 | 5.00 | 33/64 | 0.025 | 0.093 |
| 11203 | 10703 | 1/4-28 | 2.0 | 4.0 | 17/32 | 0.035 | 0.125 |
| 11212 | 10712 | 1/4-28 | 3.0 | 7.0 | 17/32 | 0.035 | 0.125 |
| 11204 | 10704 | 1/4-28 | 4.0 | 12.0 | 17/32 | 0.035 | 0.125 |
| 11205 | 10705 | 5/16-24 | 2.0 | 4.5 | 37/64 | 0.040 | 0.156 |
| 11213 | 10713 | 5/16-24 | 4.0 | 9.0 | 37/64 | 0.040 | 0.156 |
| 11206 | 10706 | 5/16-24 | 6.0 | 17.0 | 37/64 | 0.040 | 0.156 |
| 11207 | 10707 | 3/8-24 | 2.5 | 5.0 | 5/8 | 0.048 | 0.187 |
| 11214 | 10714 | 3/8-24 | 5.0 | 10.0 | 5/8 | 0.048 | 0.187 |
| 11208 | 10708 | 3/8-24 | 6.0 | 21.0 | 5/8 | 0.048 | 0.187 |
| 11209 | 10709 | 1/2-20 | 3.0 | 6.0 | 3/4 | 0.072 | 0.281 |
| 11215 | 10715 | 1/2-20 | 6.0 | 12.0 | 3/4 | 0.072 | 0.281 |
| 11210 | 10710 | 1/2-20 | 6.0 | 30.0 | 3/4 | 0.072 | 0.281 |

### Without Locking Element

| SS PART NUMBER | STEEL PART NUMBER |
|---|---|
| **11001** | **10826** |
| **11003** | **10828** |
| **11004** | **10829** |
| **11005** | **10801** |
| **11006** | **10802** |
| **11007** | **10803** |
| **11223** | **10723** |
| **11232** | **10732** |
| **11224** | **10724** |
| **11225** | **10725** |
| **11233** | **10733** |
| **11226** | **10726** |
| **11227** | **10727** |
| **11234** | **10734** |
| **11228** | **10728** |
| **11229** | **10729** |
| **11235** | **10735** |
| **11230** | **10730** |

## BALL PLUNGERS METRIC






### Metric – Steel and Stainless Steel With Locking Element

| SS PART NUMBER | STEEL PART NUMBER | Thread Size A | Initial Force (kg) | Final Force (kg) | B | C | D |
|---|---|---|---|---|---|---|---|
| **11051** | **10971** | M4 x 0.7 | 0.23 | 0.56 | 9.00 | 0.60 | 2.38 |
| **11052** | **10972** | M5 x 0.8 | 0.23 | 0.68 | 13.00 | 0.60 | 2.38 |
| **11053** | **10973** | M5 x 0.8 | 0.68 | 1.35 | 13.00 | 0.60 | 2.38 |
| **11054** | **10974** | M5 x 0.8 | 0.90 | 2.25 | 13.00 | 0.60 | 2.38 |
| **11055** | **10975** | M6 x 1.0 | 0.90 | 1.80 | 13.50 | 0.90 | 3.18 |
| **11056** | **10976** | M6 x 1.0 | 1.35 | 3.15 | 13.50 | 0.90 | 3.18 |
| **11057** | **10977** | M6 x 1.0 | 1.80 | 5.40 | 13.50 | 0.90 | 3.18 |
| **11058** | **10978** | M8 x 1.25 | 0.90 | 2.03 | 15.00 | 1.00 | 3.97 |
| **11059** | **10979** | M8 x 1.25 | 1.80 | 4.05 | 15.00 | 1.00 | 3.97 |
| **11060** | **10980** | M8 x 1.25 | 2.70 | 7.65 | 15.00 | 1.00 | 3.97 |
| **11061** | **10981** | M10 x 1.5 | 1.13 | 2.25 | 16.00 | 1.20 | 4.76 |
| **11062** | **10982** | M10 x 1.5 | 2.25 | 4.50 | 16.00 | 1.20 | 4.76 |
| **11063** | **10983** | M10 x 1.5 | 2.70 | 9.45 | 16.00 | 1.20 | 4.76 |
| **11064** | **10984** | M12 x 1.75 | 1.35 | 2.70 | 19.00 | 2.00 | 7.14 |
| **11065** | **10985** | M12 x 1.75 | 2.70 | 5.40 | 19.00 | 2.00 | 7.14 |
| **11066** | **10986** | M12 x 1.75 | 2.70 | 13.50 | 19.00 | 2.00 | 7.14 |
| **11067** | **10987** | M16 x 2.0 | 2.00 | 4.00 | 25.40 | 2.40 | 9.50 |
| **11068** | **10988** | M16 x 2.0 | 4.00 | 8.10 | 25.40 | 2.40 | 9.50 |
| **11069** | **10989** | M16 x 2.0 | 3.10 | 22.70 | 25.40 | 2.40 | 9.50 |

### Without Locking Element

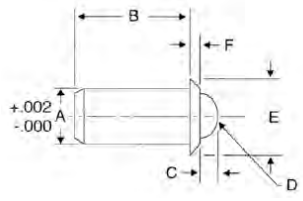
| SS PART NUMBER | STEEL PART NUMBER |
|---|---|
| **10951** | **10871** |
| **10952** | **10872** |
| **10953** | **10873** |
| **10954** | **10874** |
| **10955** | **10875** |
| **10956** | **10876** |
| **10957** | **10877** |
| **10958** | **10878** |
| **10959** | **10879** |
| **10960** | **10880** |
| **10961** | **10881** |
| **10962** | **10882** |
| **10963** | **10883** |
| **10964** | **10884** |
| **10965** | **10885** |
| **10966** | **10886** |
| **10967** | **10887** |
| **10968** | **10888** |
| **10969** | **10889** |

- Body Materials: Low Carbon Steel, Black Oxide or 303 Stainless Steel
- Ball: Stainless, 440
- Spring: Stainless, 17-7 PH
- Thread: Class 6g
- 3D Solid Models are available in multiple formats

NOTE: For easy insertion of Ball Plungers with locking elements, the tapped hole should be countersunk at least .030-.045 (0.76-1.14mm) larger than the major diameter of the plunger.

## PRESS FIT PLUNGERS






- Body Material: Low Carbon Steel
- Ball Material: Stainless, 400
- Spring Material: 17-7 PH
- Finish: Black Oxide on Body

### Heavy Force

| PART NUMBER | STAINLESS STEEL PART NUMBER | Force (lbs) Initial | Force (lbs) Final | A | B | C | Ball Dia. D | E | F |
|---|---|---|---|---|---|---|---|---|---|
| **10832** | **11032** | 2 | 5 | .188 | .405 | .058 | .156 | .250 | .035 |
| **10834** | **11034** | 3 | 7 | .250 | .481 | .070 | .187 | .312 | .044 |
| **10836** | **11036** | 5 | 14 | .375 | .785 | .110 | .312 | .500 | .078 |
| **10838** | **11038** | 8 | 18 | .500 | 1.130 | .161 | .437 | .688 | .088 |

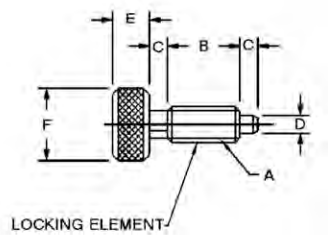
### Light Force

| PART NUMBER | STAINLESS STEEL PART NUMBER | Force (lbs) Initial | Force (lbs) Final | A | B | C | Ball Dia. D | E | F |
|---|---|---|---|---|---|---|---|---|---|
| **10831** | **11031** | 1 | 2.5 | .188 | .405 | .058 | .156 | .250 | .035 |
| **10833** | **11033** | 1.5 | 3.5 | .250 | .481 | .070 | .187 | .312 | .044 |
| **10835** | **11035** | 2.5 | 7 | .375 | .785 | .110 | .312 | .500 | .078 |
| **10837** | **11037** | 4 | 9 | .500 | 1.130 | .161 | .437 | .688 | .088 |

- **Improved design allows plunger pin to be locked in fully retracted position**
- **Used in machining applications as positioners, loading pins or indexing devices**
- **Plunger pin has slight taper on end to assure easy alignment**
- **Zinc Plated Carbon Steel, 303 Stainless Steel**
- **Phenolic Nose Prevents Marring of Soft Material**
- **Supplied with locking element**

## RETRACTABLE PLUNGERS
## HAND RETRACTABLE LOCKING STYLE






### Inch – Hand Retractable Locking Style Plungers

| STEEL PART NUMBER | STEEL PHENOLIC NOSE PART NUMBER | STAINLESS STEEL PART NUMBER | STAINLESS STEEL PHENOLIC NOSE PART NUMBER | A | End Force (lbs) | | B | C | +.001 -.002 D | E | F | Net Wt. (lbs) 10 pcs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Start | Full | | | | | | |
| **27426** | **27523** | **27826** | **27527** | 1/4-20 | 0.5 | 2.5 | 1/2 | 1/8 | .124 | 1/4 | 1/2 | .3 |
| **27421** | **27515** | **27821** | **27519** | 1/4-20 | 1.0 | 5.0 | 1/2 | 1/8 | .124 | 1/4 | 1/2 | .3 |
| **27427** | **27524** | **27827** | **27528** | 5/16-18 | 0.75 | 3.0 | 5/8 | 3/16 | .155 | 9/32 | 5/8 | .5 |
| **27422** | **27516** | **27822** | **27520** | 5/16-18 | 1.5 | 6.0 | 5/8 | 3/16 | .155 | 9/32 | 5/8 | .5 |
| **27428** | **27525** | **27828** | **27529** | 3/8-16 | 0.75 | 4.0 | 3/4 | 7/32 | .186 | 5/16 | 3/4 | .7 |
| **27423** | **27517** | **27823** | **27521** | 3/8-16 | 1.5 | 8.0 | 3/4 | 7/32 | .186 | 5/16 | 3/4 | .7 |
| **27429** | **27526** | **27829** | **27530** | 1/2-13 | 1.25 | 5.0 | 7/8 | 1/4 | .249 | 3/8 | 1” | 1.3 |
| **27424** | **27518** | **27824** | **27522** | 1/2-13 | 2.5 | 10.0 | 7/8 | 1/4 | .249 | 3/8 | 1” | 1.3 |

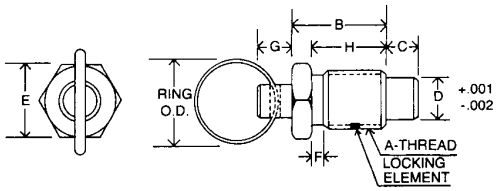
### Metric – Hand Retractable Locking Style Plungers

| STEEL PART NUMBER | Class 6g ISO A | End Force (kg) | | B | C | +.025 -.050 D | E | F | Net Wt. (lkg) 10 pcs. |
|---|---|---|---|---|---|---|---|---|---|
| | | Start | Full | | | | | | |
| **27555** | M6x1.0 | 0.225 | 1.135 | 12.50 | 3.17 | 3 | 6.3 | 12.7 | .16 |
| **27551** | M6x1.0 | 0.4 | 2.27 | 12.50 | 3.17 | 3 | 6.3 | 12.7 | .16 |
| **27556** | M8x1.25 | 0.34 | 1.36 | 16.00 | 4.75 | 4 | 7.0 | 15.8 | .27 |
| **27552** | M8x1.25 | 0.68 | 2.72 | 16.00 | 4.75 | 4 | 7.0 | 15.8 | .27 |
| **27557** | M10x1.5 | 0.34 | 1.815 | 19.00 | 5.50 | 5 | 7.9 | 19.0 | .38 |
| **27553** | M10x1.5 | 0.68 | 3.63 | 19.00 | 5.50 | 5 | 7.9 | 19.0 | .38 |
| **27558** | M12x1.75 | 0.565 | 2.27 | 22.00 | 6.35 | 6 | 9.4 | 25.4 | .7 |
| **27554** | M12x1.75 | 1.13 | 4.54 | 22.00 | 6.35 | 6 | 9.4 | 25.4 | .7 |

## RETRACTABLE PLUNGERS PULL RING STYLE

- For use in application with limited space
- Slight taper on end of plunger for easy alignment



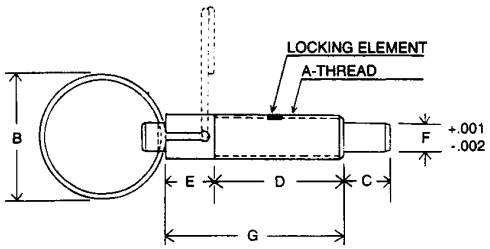



### Pull Ring – Short Locking Plungers

| STEEL PART NUMBER | STEEL PHENOLIC NOSE PART NUMBER | STAINLESS STEEL PART NUMBER | STAINLESS STEEL PHENOLIC NOSE PART NUMBER | A | End Force (lbs) | | B | C | +.001 -.002 D | E | F | G | H | O.D | Net Wt. (lbs) 10 pcs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Start | Full | | | | | | | | | |
| 27441 | 27804 | 27800 | 27808 | 1/4-20 | 0.50 | 2.0 | 7/16 | 3/16 | .156 | 1/4 | 1/32 | 5/32 | 9/32 | 3/4 | .1 |
| 27442 | 27805 | 27801 | 27809 | 3/8-16 | 0.75 | 3.0 | 5/8 | 9/32 | .250 | 3/8 | 1/8 | 3/16 | 7/16 | 3/4 | .2 |
| 27443 | 27806 | 27802 | 27810 | 1/2-13 | 1.00 | 4.0 | 13/16 | 3/8 | .312 | 1/2 | 5/32 | 1/4 | 9/16 | 1 | .43 |
| 27444 | 27807 | 27803 | 27811 | 5/8-11 | 1.25 | 5.0 | 1 | 7/16 | .375 | 5/8 | 5/32 | 5/16 | 11/16 | 1 | .8 |

- For use in application with limited space
- Slight taper on end of plunger for easy alignment
- Turn ring to lock and extend plunger



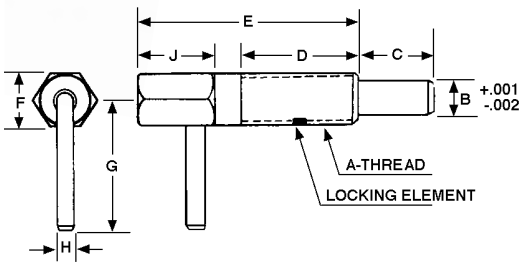



### Pull Ring – Short Locking Plungers

| STEEL PART NUMBER | STEEL PHENOLIC NOSE PART NUMBER | STAINLESS STEEL PART NUMBER | STAINLESS STEEL PHENOLIC NOSE PART NUMBER | A | End Force (lbs) | | B | C | +.001 -.002 D | E | F | G | Net Wt. (lbs) 10 pcs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Start | Full | | | | | | | |
| 27446 | 27815 | 27812 | 27818 | 1/4-20 | 1.0 | 2.5 | 5/8 | 1/4 | 13/16 | 5/16 | .156 | 1-1/8 | .15 |
| 27447 | 27816 | 27813 | 27819 | 3/8-16 | 2.0 | 4.0 | 1 | 3/8 | 1-1/4 | 7/16 | .233 | 1-11/16 | .43 |
| 27448 | 27817 | 27814 | 27820 | 1/2-13 | 2.5 | 5.0 | 1-1/4 | 1/2 | 1-7/16 | 9/16 | .312 | 2 | .9 |

- **Hand retractable for easy removal or insertion**
- **Turn handle to unlock and extend plunger**
- **Slight taper on end of plunger for easy alignment**
- **Locking element standard on all sizes**

## RETRACTABLE PLUNGERS L HANDLE HAND RETRACTABLE LOCKING STYLE






### Locking Plungers – Long Reach – Standard Length

| STEEL PART NUMBER | STEEL PHENOLIC NOSE PART NUMBER | STAINLESS STEEL PART NUMBER | STAINLESS STEEL PHENOLIC NOSE PART NUMBER | A | End Force (lbs) | | +.001 -.002 B | C | D | E | F | G | H | J | Net Wt. (lbs) 10 pcs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Start | Full | | | | | | | | | |
| **27436** | **27851** | **27836** | **27855** | 1/4-20 | .50 | 2.5 | .156 | 3/8 | 5/8 | 1-1/4 | 1/4 | 5/8 | 3/32 | 1/2 | .15 |
| **27437** | **27852** | **27837** | **27856** | 3/8-16 | .75 | 3.75 | .250 | 9/16 | 1-1/16 | 2 | 3/8 | 15/16 | 9/64 | 11/16 | .53 |
| **27438** | **27853** | **27838** | **27857** | 1/2-13 | 1.0 | 5.0 | .312 | 3/4 | 1-1/8 | 2-1/8 | 1/2 | 1-1/4 | 3/16 | 3/4 | 1.03 |
| **27439** | **27854** | **27839** | **27858** | 5/8-11 | 1.0 | 5.0 | .375 | 1 | 1-3/4 | 3 | 5/8 | 1-5/16 | 3/16 | 1-1/16 | 2.23 |

### Locking Plungers – Long Reach – Short Length

| STEEL PART NUMBER | STEEL PHENOLIC NOSE PART NUMBER | STAINLESS STEEL PART NUMBER | STAINLESS STEEL PHENOLIC NOSE PART NUMBER | A | End Force (lbs) | | +.001 -.002 B | C | D | E | F | G | H | J | Net Wt. (lbs) 10 pcs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Start | Full | | | | | | | | | |
| **27416** | **27859** | **27867** | **27863** | 1/4-20 | .125 | .50 | .156 | 3/16 | 7/16 | 3/4 | 1/4 | 9/16 | 3/32 | 1/4 | .1 |
| **27417** | **27860** | **27868** | **27864** | 3/8-16 | .25 | 1.25 | .250 | 5/16 | 5/8 | 1-1/8 | 3/8 | 3/4 | 9/64 | 3/8 | .3 |
| **27418** | **27861** | **27869** | **27865** | 1/2-13 | .50 | 2.0 | .312 | 13/32 | 7/8 | 1-1/2 | 1/2 | 1 | 3/16 | 1/2 | .7 |
| **27419** | **27862** | **27870** | **27866** | 5/8-11 | .75 | 2.5 | .375 | 1/2 | 1-1/8 | 1-7/8 | 5/8 | 1-3/16 | 3/16 | 5/8 | 1.35 |

## SMARTSEAL






- **Wave ring systems**
- **Ultra lightweight**
- **Various sizes available**
- **Patent-pending SmartSeal design**
- **All stainless steel construction**
- **5/16" Hex head**
- **Patented w-shaped design**

## WAVESEAL$^{360}$



| GENERAL GUIDELINES | SmartSeal | WaveSeal$^{360}$ |
|---|---|---|
| Wall Thickness | Greater than .177" (4.5 mm) | Less than .177" (4.5 mm) |
| Hose Diameter | Greater than 3" (76 mm) | Less than 3" (76 mm) |
| Installation Torque (Most Applications) | Up to 48 lb-in (5.5 Nm) | Up to 70 lb-in (8 Nm) |
| Band Width | 1/2" | 9/16" |

| PART NUMBER | | Size | Min (In) | Max (In.) | Min (mm) | Max (mm) |
|---|---|---|---|---|---|---|
| SmartSeal | WaveSeal$^{360}$ | | | | | |
| - | **36003-0016** | 16 | 13/16 | 1-19/64 | 21 | 33 |
| **37215-0020** | **36003-0020** | 20 | 1-1/16 | 1-9/16 | 26 | 40 |
| **37215-0022** | **36003-0022** | 22 | 1-1/8 | 1-11/16 | 29 | 43 |
| **37215-0024** | **36003-0024** | 24 | 1-3/16 | 1-13/16 | 30 | 46 |
| **37215-0028** | **36003-0028** | 28 | 1-5/16 | 2-1/16 | 34 | 52 |
| **37215-0032** | **36003-0032** | 32 | 1-9/16 | 2-5/16 | 39 | 59 |
| **37215-0034** | **36003-0034** | 34 | 1-5/8 | 2-7/16 | 41 | 62 |
| **37215-0036** | **36003-0036** | 36 | 1-11/16 | 2-9/16 | 43 | 65 |
| **37215-0040** | **36003-0040** | 40 | 1-13/16 | 2-13/16 | 46 | 71 |
| **37215-0044** | **36003-0044** | 44 | 2-1/16 | 3-1/16 | 52 | 78 |
| **37215-0048** | **36003-0048** | 48 | 2-3/16 | 3-5/16 | 56 | 84 |
| **37215-0052** | **36003-0052** | 52 | 2-3/8 | 3-9/16 | 60 | 91 |
| **37215-0056** | **36003-0056** | 56 | 2-1/2 | 3-13/16 | 64 | 97 |
| **37215-0060** | **36003-0060** | 60 | 2-11/16 | 4-1/16 | 68 | 103 |
| **37215-0064** | **36003-0064** | 64 | 2-13/16 | 4-5/16 | 71 | 110 |
| **37215-0072** | **36003-0072** | 72 | 3-3/16 | 4-13/16 | 81 | 122 |
| **37215-0080** | **36003-0080** | 80 | 3-9/16 | 5-5/16 | 90 | 135 |
| **37215-0088** | **36003-0088** | 88 | 3-13/16 | 5-13/16 | 97 | 148 |



## T-BOLT

- **Additional sizes available**

| STANDARD T-BOLT | | CHANNEL BRIDGE | | Size | Min (In) | Max (In.) | Min (mm) | Max (mm) |
|---|---|---|---|---|---|---|---|---|
| 30010 | 30011 | 30020 | 30021 | | | | | |
| 30010-0150 | 30011-0150 | 30020-0150 | 30021-0150 | 150 | 1.50 | 1.69 | 38.1 | 42.9 |
| 30010-0163 | 30011-0163 | 30020-0163 | 30021-0163 | 163 | 1.63 | 1.88 | 41.3 | 47.8 |
| 30010-0175 | 30011-0175 | 30020-0175 | 30021-0175 | 175 | 1.75 | 2.00 | 44.5 | 50.8 |
| 30010-0188 | 30011-0188 | 30020-0188 | 30021-0188 | 188 | 1.88 | 2.19 | 47.6 | 55.6 |
| 30010-0200 | 30011-0200 | 30020-0200 | 30021-0200 | 200 | 2.00 | 2.31 | 50.8 | 58.7 |
| 30010-0213 | 30011-0213 | 30020-0213 | 30021-0213 | 213 | 2.13 | 2.44 | 54.1 | 62.0 |
| 30010-0225 | 30011-0225 | 30020-0225 | 30021-0225 | 225 | 2.25 | 2.56 | 57.2 | 65.0 |
| 30010-0238 | 30011-0238 | 30020-0238 | 30021-0238 | 238 | 2.38 | 2.69 | 60.3 | 68.3 |
| 30010-0250 | 30011-0250 | 30020-0250 | 30021-0250 | 250 | 2.50 | 2.81 | 63.5 | 71.4 |
| 30010-0263 | 30011-0263 | 30020-0263 | 30021-0263 | 263 | 2.63 | 2.94 | 66.7 | 74.7 |
| 30010-0275 | 30011-0275 | 30020-0275 | 30021-0275 | 275 | 2.75 | 3.06 | 69.9 | 77.7 |
| 30010-0288 | 30011-0288 | 30020-0288 | 30021-0288 | 288 | 2.88 | 3.19 | 73.0 | 81.0 |
| 30010-0300 | 30011-0300 | 30020-0300 | 30021-0300 | 300 | 3.00 | 3.31 | 76.2 | 84.1 |
| 30010-0313 | 30011-0313 | 30020-0313 | 30021-0313 | 313 | 3.13 | 3.44 | 79.4 | 87.4 |
| 30010-0325 | 30011-0325 | 30020-0325 | 30021-0325 | 325 | 3.25 | 3.56 | 82.6 | 90.4 |
| 30010-0338 | 30011-0338 | 30020-0338 | 30021-0338 | 338 | 3.38 | 3.69 | 85.7 | 93.7 |
| 30010-0350 | 30011-0350 | 30020-0350 | 30021-0350 | 350 | 3.50 | 3.81 | 88.9 | 96.8 |
| 30010-0363 | 30011-0363 | 30020-0363 | 30021-0363 | 363 | 3.63 | 3.94 | 92.1 | 100.1 |
| 30010-0375 | 30011-0375 | 30020-0375 | 30021-0375 | 375 | 3.75 | 4.06 | 95.3 | 103.1 |
| 30010-0400 | 30011-0400 | 30020-0400 | 30021-0400 | 400 | 4.00 | 4.31 | 101.6 | 109.5 |
| 30010-0425 | 30011-0425 | 30020-0425 | 30021-0425 | 425 | 4.25 | 4.56 | 108.0 | 115.8 |
| 30010-0450 | 30011-0450 | 30020-0450 | 30021-0450 | 450 | 4.50 | 4.81 | 114.3 | 122.2 |
| 30010-0475 | 30011-0475 | 30020-0475 | 30021-0475 | 475 | 4.75 | 5.06 | 120.7 | 128.5 |
| 30010-0500 | 30011-0500 | 30020-0500 | 30021-0500 | 500 | 5.00 | 5.31 | 127.0 | 134.9 |
| 30010-0525 | 30011-0525 | 30020-0525 | 30021-0525 | 525 | 5.25 | 5.56 | 133.4 | 141.2 |
| 30010-0550 | 30011-0550 | 30020-0550 | 30021-0550 | 550 | 5.50 | 5.81 | 139.7 | 147.6 |
| 30010-0575 | 30011-0575 | 30020-0575 | 30021-0575 | 575 | 5.75 | 6.06 | 146.1 | 153.9 |
| 30010-0600 | 30011-0600 | 30020-0600 | 30021-0600 | 600 | 6.00 | 6.31 | 152.4 | 160.3 |
| 30010-0625 | 30011-0625 | 30020-0625 | 30021-0625 | 625 | 6.25 | 6.56 | 158.8 | 166.6 |
| 30010-0650 | 30011-0650 | 30020-0650 | 30021-0650 | 650 | 6.50 | 6.81 | 165.1 | 173.0 |
| 30010-0675 | 30011-0675 | 30020-0675 | 30021-0675 | 675 | 6.75 | 7.06 | 171.5 | 179.3 |
| 30010-0700 | 30011-0700 | 30020-0700 | 30021-0700 | 700 | 7.00 | 7.31 | 177.8 | 185.7 |
| 30010-0725 | 30011-0725 | 30020-0725 | 30021-0725 | 725 | 7.25 | 7.56 | 184.2 | 192.0 |
| 30010-0750 | 30011-0750 | 30020-0750 | 30021-0750 | 750 | 7.50 | 7.81 | 190.5 | 198.4 |
| 30010-0775 | 30011-0775 | 30020-0775 | 30021-0775 | 775 | 7.75 | 8.06 | 196.9 | 204.7 |
| 30010-0800 | 30011-0800 | 30020-0800 | 30021-0800 | 800 | 8.00 | 8.31 | 203.2 | 211.1 |
| 30010-0825 | 30011-0825 | 30020-0825 | 30021-0825 | 825 | 8.25 | 8.56 | 209.6 | 217.4 |
| 30010-0850 | 30011-0850 | 30020-0850 | 30021-0850 | 850 | 8.50 | 8.81 | 215.9 | 223.8 |

## MICROGEAR



**Micro-Gear clamps are tiny, tough and precision-engineered to use in small hose applications including emission control, fuel lines and vacuum hoses. Slim, 5/16" bands and low profile housings allow installation in confined areas.**

| 62J | 359 | 62M | 345/MAH/ MAS | 62P | 325/MH | Size | Min (In) | Max (In.) | Min (mm) | Max (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 62J04 | 359-004 | 62604(1) | 345-004 | 6204(3) | 325-004 | 04 | 1/4 | 5/8 | 6 | 16 |
| - | - | 62M05 | 345-005 | 62P05 | 325-005 | 05 | 7/16 | 11/16 | 11 | 17 |
| 62J06 | 359-006 | 62606(2) | 345-006 | 6206(4) | 325-006 | 06 | 5/16 | 7/8 | 8 | 22 |
| 62J08 | - | 62M08 | 345-008 | 62P08 | 325-008 | 08 | 7/16 | 1 | 11 | 25 |
| 62J10 | - | 62M10 | 345-010 | 62P10 | 325-010 | 10 | 1/2 | 1-1/16 | 13 | 27 |
| - | - | 62M12 | 345-012 | 62P12 | 325-012 | 12 | 9/16 | 1-1/4 | 14 | 32 |
| - | - | 62M16 | 345-016 | 62P16 | 325-016 | 16 | 11/16 | 1-1/2 | 18 | 38 |
| - | - | 62M20 | t345-020 | 62P20 | 325-020 | 20 | 3/4 | 1-3/4 | 19 | 44 |
| - | - | 62M24 | 345-024 | 62P24 | 325-024 | 24 | 1 | 2 | 26 | 51 |
| - | - | 62M28 | 345-028 | 62P28 | 325-028 | 28 | 1-1/4 | 2-1/4 | 32 | 57 |
| - | - | 62M30 | 345-030 | 62P30 | 325-030 | 30 | 1-3/8 | 2-3/8 | 35 | 60 |
| - | - | 62M32 | 345-032 | 62P32 | 325-032 | 32 | 1-1/2 | 2-1/2 | 38 | 63 |
| - | - | 62M36 | 345-036 | 62P36 | 325-036 | 36 | 1-3/4 | 2-3/4 | 45 | 70 |
| - | - | 62M44 | 345-044 | 62P44 | 325-044 | 44 | 2-1/4 | 3-1/4 | 57 | 82 |
| - | - | 62M48 | 345-048 | 62P48 | 325-048 | 48 | 2-1/2 | 3-1/2 | 64 | 89 |

## POW'R GEAR



**Pow'r-Gear high performance clamps are designed for high vibration and stubborn leakage applications such as industrial machinery, heavy truck, farm and off-road equipment engines. Pow'r-Gears feature an extra wide 5/8" heavy gauge band and a wide profile housing that provides maximum engagement of screw threads to band.**

| 60 | M850 | 6P | 6L | M843 | 6M | Size | Min (In) | Max (In.) | Min (mm) | Max (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 60175 | 850-175 | 6P175 | 6L175 | 843-175 | 6M175 | 175 | 1 | 1-3/4 | 25 | 45 |
| 60200 | 850-200 | 6P200 | 6L200 | 843-200 | 6M200 | 212 | 1-1/4 | 2-1/8 | 32 | 54 |
| 60250 | 850-250 | 6P250 | 6L250 | 843-250 | 6M250 | 262 | 1-3/4 | 2-5/8 | 45 | 66 |
| 60300 | 850-300 | 6P300 | 6L300 | 843-300 | 6M300 | 312 | 2-1/4 | 3-1/8 | 57 | 79 |
| 60350 | 850-350 | 6P350 | 6L350 | 843-350 | 6M350 | 362 | 2-3/4 | 3-5/8 | 70 | 92 |
| 60400 | 850-400 | 6P400 | 6L400 | 843-400 | 6M400 | 412 | 3-1/4 | 4-1/8 | 83 | 105 |
| 60450 | 850-450 | 6P450 | 6L450 | 843-450 | 6M450 | 462 | 3-3/4 | 4-5/8 | 95 | 117 |
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# HYDRAULIC HOSE & ADAPTERS

**Clancey Design Distributor has chosen to partner with a leader in the hydraulic industry to offer our customers a competitive source for hose, hose ends and, hydraulic adapters. This partnership allows us to provide our customers with cost competitive pricing and time saving solutions like kitting.**

## Items offered include:

- Hose
- Custom hose assemblies
- Pipe
- Flare
- SAE O-Ring
- Flat face adapters
- Metric adapters
- Live working swivels
- Steel hose fittings
- Brass barbs and adapters
- Quick disconnect
- Ball valve (high and low pressure)
- Flange adapters and anchor flange pad fittings for any configuration in Code 61 and Code 62 applications.



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# GAS SPRING ENGINEERING
## CLANCEY APPLICATION WORKSHEET

**Here is the information we will be looking for to assist you in selecting a gas spring that will work well in your application.**

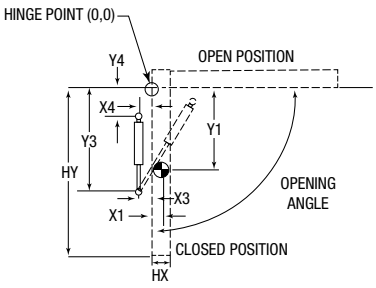
**APPLICATION DEVELOPMENT**

### Section 1 - Customer and Project Information

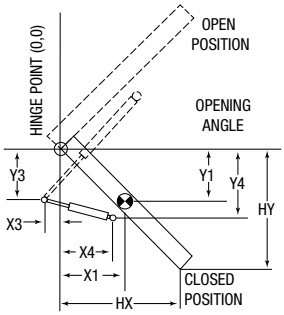
| | |
|---|---|
| Company Name: | Project Name/Number: |
| Engineering Contact: | Application Description: |
| E-mail Address: | Estimated Number of Units Annually: |
| Phone: | Start of Production Date: |

### Section 2 - Application Type (Select One of Four Options)

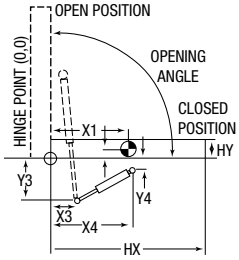
❑ **VERTICAL DOOR**



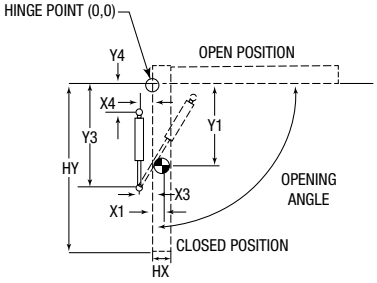

❑ **OFFSET DOOR**




❑ **HORIZONTAL DOOR**




❑ **VERTICAL HINGE (E.G., CAB DOORS)**




### Section 3 - Dynamic Requirements

*Desired Action:*

❑ Over-Center, e.g., vehicle rear hatch (most common)

❑ Auto Rise (door opens upon release of latch)

*Desired Damping:*

❑ Damped in Extension (most common)

❑ Custom Damping, e.g., damped in compression, dynamic damping _____

### Section 4 - Application Data

*Temperature:* _____ °F or _____ °C

_____ Minimum _____ Average _____ Maximum

Based on your selected application type, please give the following information (door in closed position):

*Units:* _____ mm or _____ inches

*Center of Gravity:* X1 = _____ Y1 = _____

*Handle Location:* HX = _____ HY = _____

*Opening Angle:* _____ degrees

*Total Weight of Door:* _____ lbs or _____ kg

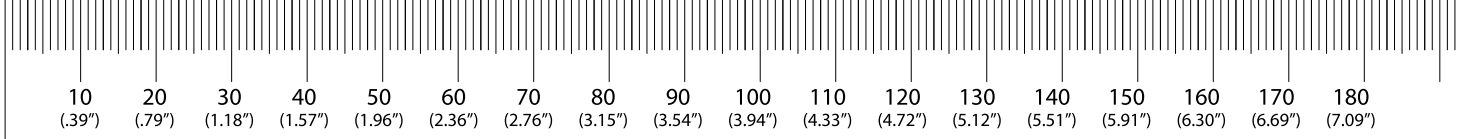
Preferred Mounting Location (optional):

Fixed Point: X3 = _____ Y3 = _____

Moving Point: X4 = _____ Y4 = _____

Desired Handle Effort: To Open = _____ To Close = _____

Desired Number of Gas Springs Per Door: _____




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## Metric Ruler (in mm)

# Gauge Chart

**Standard sheet metal guage numbers, nominal decimal number, and tolerance ranges for cold rolled steel. These are the standard sizes for continuous hinge.**

| | | |
|---|---|---|
| 24 | .025" Nominal Thickness | .0209" - .0269" Tolerence Range |
| 20 | .035" Nominal Thickness | .0329" - .0389" Tolerence Range |
| 19 | .042" Nominal Thickness | .0378" - .0458" Tolerence Range |
| 18 | .050" Nominal Thickness | .0438" - .0518" Tolerence Range |
| 16 | .060" Nominal Thickness | .0548" - .0648" Tolerence Range |
| 14 | .074" Nominal Thickness | .0697" - .0797" Tolerence Range |
| 13 | .090" Nominal Thickness | .0847" - .1883" Tolerence Range |
| 11 | .120" Nominal Thickness | .1136" - .1256" Tolerence Range |
| 7 | .180" Nominal Thickness | .1703" - .1883" Tolerence Range |

# Common Conversions

**Length Measurements**

| | | | | |
|---|---|---|---|---|
| millimeters | x | 0.03937 | = | inches |
| inches | x | 25.4 | = | millimeters |

**Weight Measurements**

| | | | | |
|---|---|---|---|---|
| grams | x | 0.03527 | = | ounces |
| grams | x | 0.002205 | = | pounds |
| ounces | x | 28.349527 | = | grams |
| pounds | x | 453.5924 | = | grams |
| pounds | x | 0.453592 | = | kilograms |
| kilograms | x | 2.205 | = | pounds |

**Force Measurements**

| | | | | |
|---|---|---|---|---|
| pounds | x | 4.448 | = | Newtons |
| Newtons | x | 0.2248 | = | pounds |

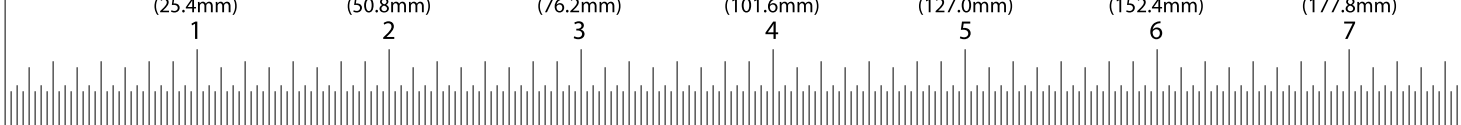
**Temperature Measurements**

| | | | | |
|---|---|---|---|---|
| Fahrenheit | (F - 32) | x .555 | = | Celsius |
| Celsius | (1.80 x C) + 32 | | = | Fahrenheit |

**All tools and information are for reference only.**

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