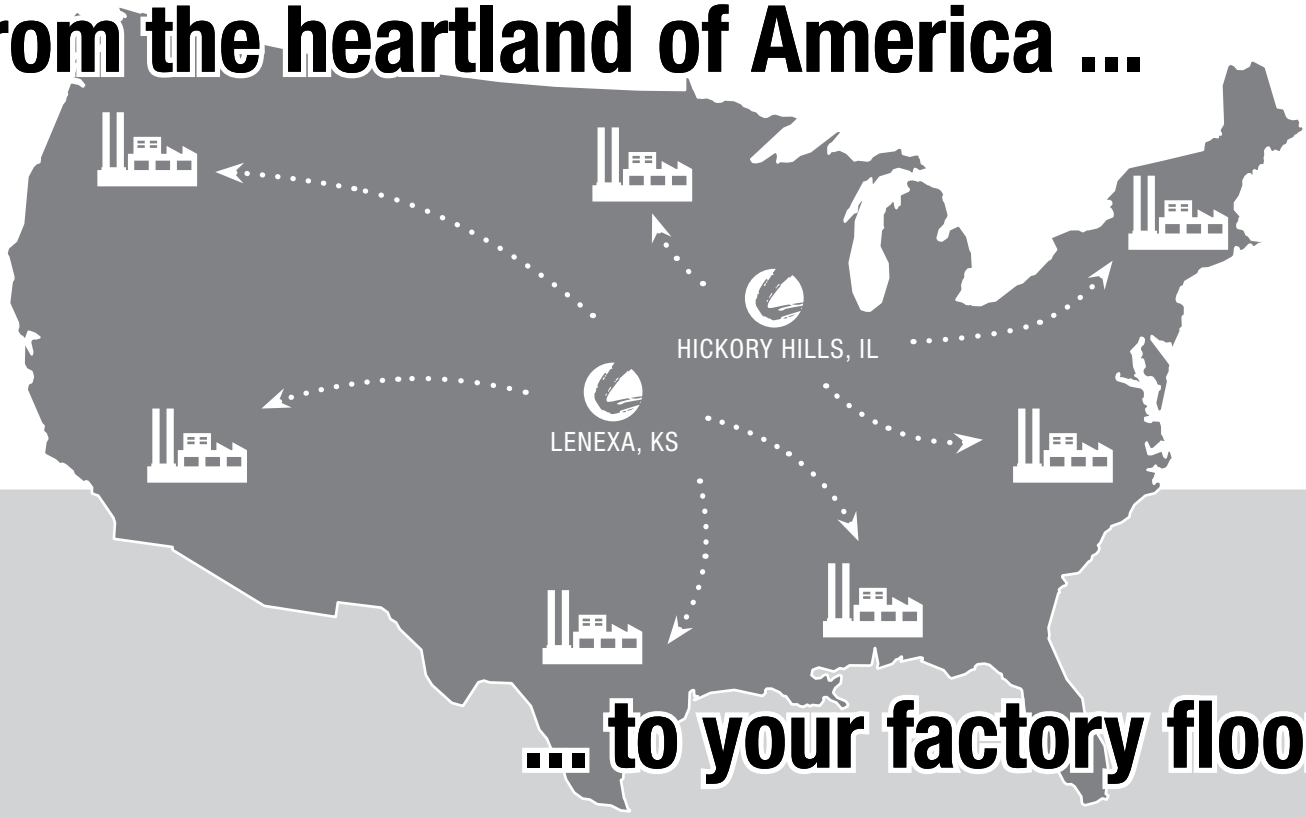
clancey
DESIGN DISTRIBUTOR

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



southco®
AUTHORIZED DISTRIBUTOR

From the heartland of America ...



... to your factory floor.

Clancey Company
8081 Flint
Lenexa, KS 66214

800.747.7405 (phone)

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.

Please don't copy this catalog, or parts of this catalog, without our permission. We will be happy to grant permission for nearly any reason that advances our goals.

Please call or e-mail us if you find any errors in this catalog. With your help, we wil make our catalog the best tool you have for mechanical component selection.

Thanks for your consideration. Enjoy using our catalog.

© 2014 CLANCEY DESIGN DISTRIBUTOR

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.
- **We invest in our business.** Our investments pay off for you. You get access to more inventory, a better trained sales and customer service team, technology enhancements, and new products as dividends from our investments.
- **We sell only high quality products.** With over 80 years in business, we cannot afford to risk our reputation on a low quality product. If a quality problem happens, we will take care of it quickly and completely. We partner with the highest quality manufacturers to assure you always get a high quality product.
- **You will love doing business with us.** Our greatest asset is our people. If you don't feel you are being treated right, please call our Vice President of Sales, Brett Vuillemin, at 800-747-7405. We will work hard to make things right.

Primary Distribution Services:	**Enhanced Distribution Services:**
Design Assistance	Custom Stocking Programs
Face-to-face sales calls	Kitting
Quoting	"Right Size" Inventory Program
Sampling	On-site Product Events
Blanket Ordering	Product Modifications
Consolidated Deliveries	Consigned Inventory
Consolidated Billing	Coordination of multiple locations or subcontractors

PRODUCT OFFERING
PICTORIAL INDEX

ELECTRONIC ACCESS // Pages 6-29 // Rotary Latches • Swinghandles • Keepers • Key Pads • Key Fobs • Controllers



MONITOR MOUNTS // Pages 30-37 // Tilt • Tilt & Swivel • Monitor Arm



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



LOCKS // Pages 152-155 // Cam Action • Sealed • Fixed or Removable Core



HINGES // Pages 156-176 // Butt • Weld-On • Lift-Off • Friction • Constant Torque • Concealed • Marine



QUICK ACCESS FASTENERS // Pages 177-214 // 1/4 Turn Fasteners • Fast Lead Screws • Detent Pins • Spring Plungers



PANEL FASTENERS // Pages 215-235 // Captive Hardware • Drive Rivets • Push Fasteners • Hole Plugs

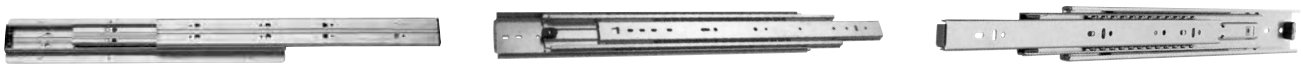


DOOR ASSISTS // Pages 236-251 // Gas Springs • Ball Studs and Brackets • Lid Stays



PRODUCT OFFERING
PICTORIAL INDEX

DRAWER SLIDES // Pages 252-263 // 3/4 Extension • Full Extension • Aluminum • Steel • Stainless



HANDLES // Pages 264-277 // Recessed • Grab • Chest • Pulls



KNOBS // Pages 278-287 // Ball • Bar • Clamping • Fluted • Knurled • Lobe • Adjustable Levers



LEVELING MOUNTS // Pages 288-298 // Non-Slip • Anti-Vibe • Stainless • Guides • Bumpers and Feet



WIRE MANAGEMENT // Pages 299-321 // Cord Clips • Liquid Tight Fittings • Conduit • Strain Reliefs • Bushings



WORK HOLDING SOLUTIONS // Pages 322-339 // Toggle Clamps • Plungers



CLAMPS // Pages 340-342 // T-Bolt • WaveSeal • SmartSeal • Pow'R Gear • Microgear



HYDRAULIC HOSE AND ADAPTERS // Page 343 // Hose • Fittings • Adapters



CUSTOMER INFORMATION
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

Page 41



Vise Action latch
large size

Page 42-43



Vise Action latch
wing head style

Page 45



Round, Flush
lift & turn latch
stainless steel, small

Page 49



Flush, medium
lift & turn latch

Page 50



Sealed lever latch

Page 54



Wing knob cam latch

Page 75



Padlocking cam latch

Page 75



Quad latch
glass-filled nylon

Page 76-77



Quad latch
die cast

Page 76-77



Quad latch
stainless steel

Page 76-77



Designer
quad latch

Page 78-79



Wing driver
cam locks

Page 153



Fixed core
sealed cam locks

Page 154



Liquid tight fittings
straight-thru

Page 311



Liquid tight fittings
pig tail

Page 312



Liquid tight fittings
right angle

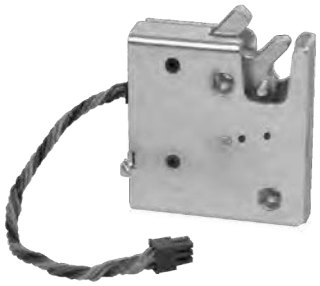
Page 312

Looking for the NEMA 4 oval designating these products.

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

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

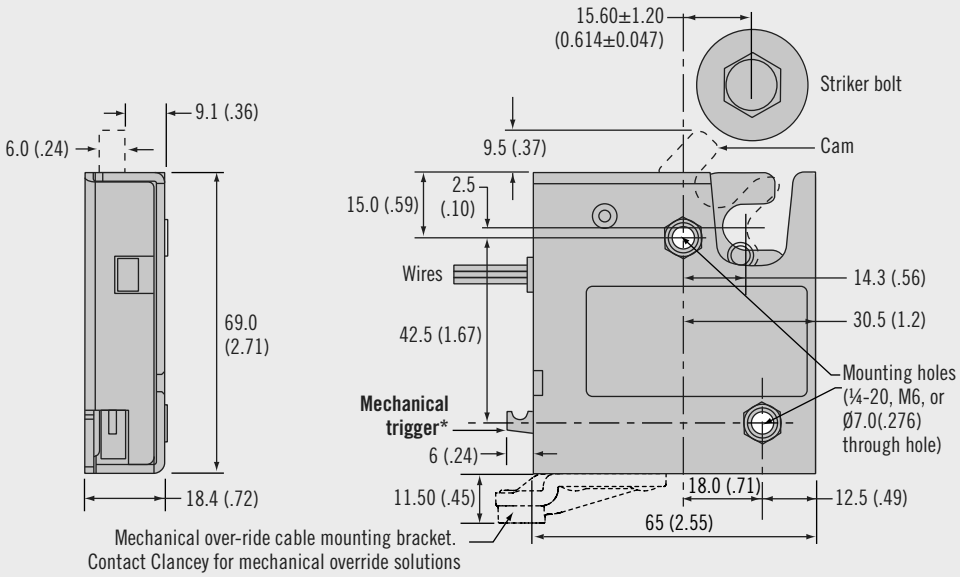


The R4-EM Electronic Rotary Latch provides a simple, versatile electromechanical latch solution for a variety of applications. Add a 12-24 Volt DC power supply and any access control device to the R4-EM for a secure, concealed electronic access solution. The optional internal microswitch provides an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

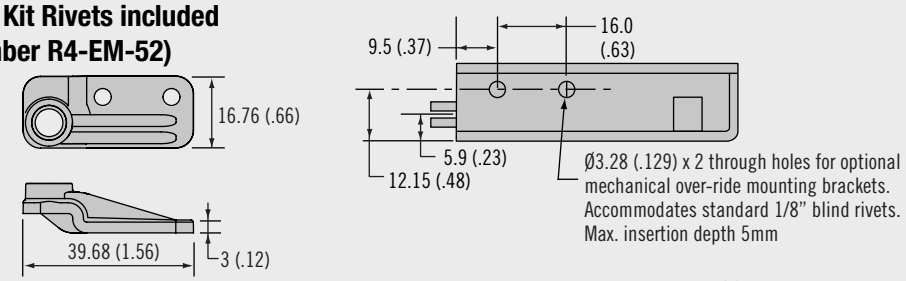
R4EM PART NUMBER				
Type	No Microswitch**		With Microswitch**	
	With connector	Without connector	With connector	Without connector
1/4 - 20 Threaded mounting	**R4-EM-X1-131**	**R4-EM-X1-132**	**R4-EM-X1-161**	**R4-EM-X1-162**
M6 Threaded mounting	**R4-EM-X2-131**	**R4-EM-X2-132**	**R4-EM-X2-161**	**R4-EM-X2-162**
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

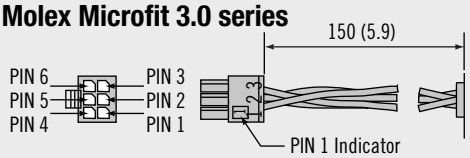


Mechanical over-ride cable mounting bracket.
Contact Clancey for mechanical override solutions

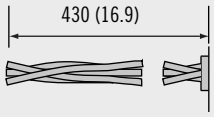
Mounting Kit Rivets included (Part Number R4-EM-52)



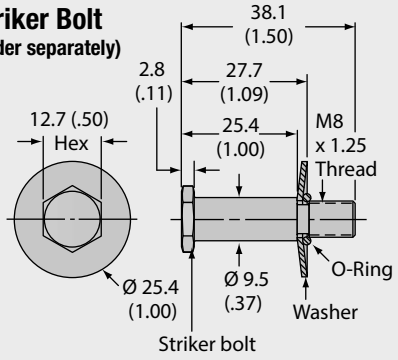
Optional Latch Connector Molex Microfit 3.0 series

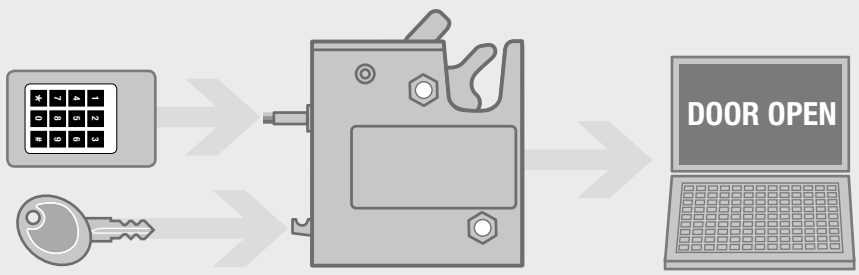


Without connector



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

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

R4-EM LIGHT DUTY ELECTRONIC ROTARY LATCH

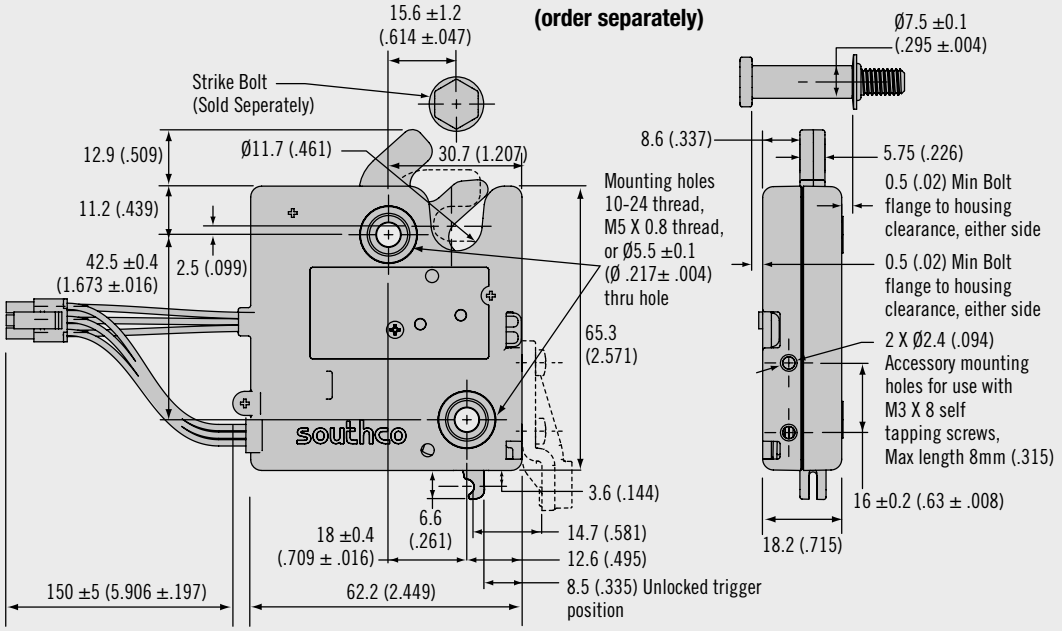


The R4-EM Light Duty Electronic Rotary Latch provides a simple, versatile electromechanical latch solution for a variety of applications. Add a 12-24 Volt DC power supply and any access control device to the R4-EM for a secure, concealed electronic access solution. The optional internal microswitch provides 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.**

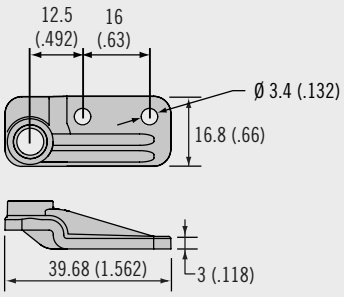
R4EM PART NUMBER		
Type	No Microswitch**	With Microswitch**
	With connector	With connector
Ø 5.5 (.22) Thru hole mounting	R4-EM-X3-131	R4-EM-X3-161
M5 Threaded mounting	R4-EM-X4-131	R4-EM-X4-161
10-24 Threaded mounting	R4-EM-X5-131	R4-EM-X5-161
STRIKER BOLT PART NUMBER		
Striker bolt	R4-90-511-20	

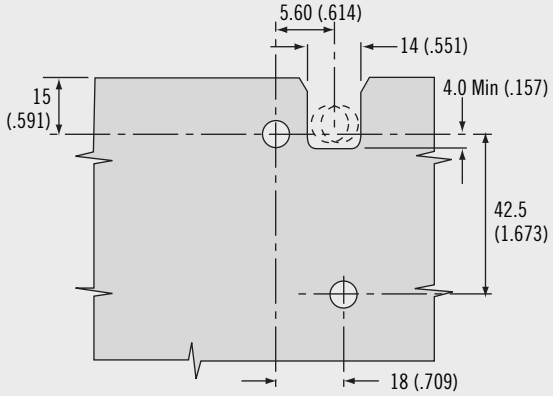
X=4 for Auto Re-lock version
X=6 for Delayed Re-lock version
Dimensions in millimeters (inch) unless otherwise stated



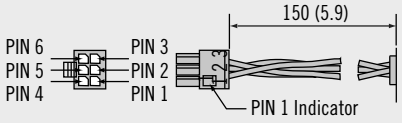
Striker Bolt
(order separately)

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

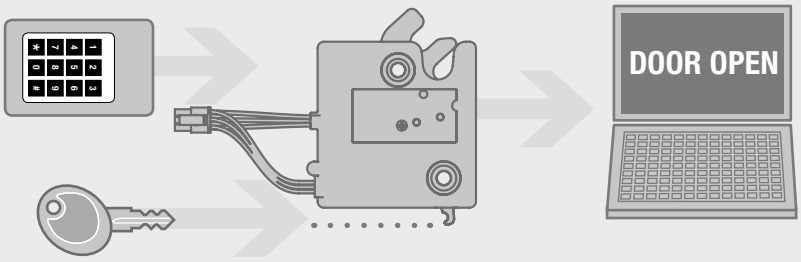




Latch Connector
Molex Microfit 3.0 series



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

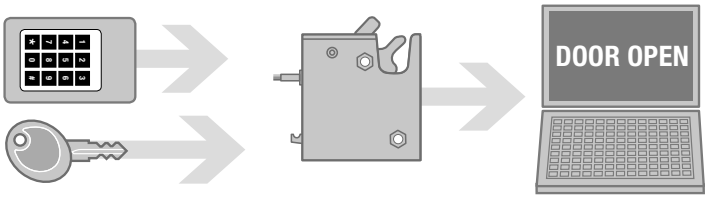
Parts are shipped individually boxed. For bulk packaging add -1 to the end of the part number (40 per box)

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

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

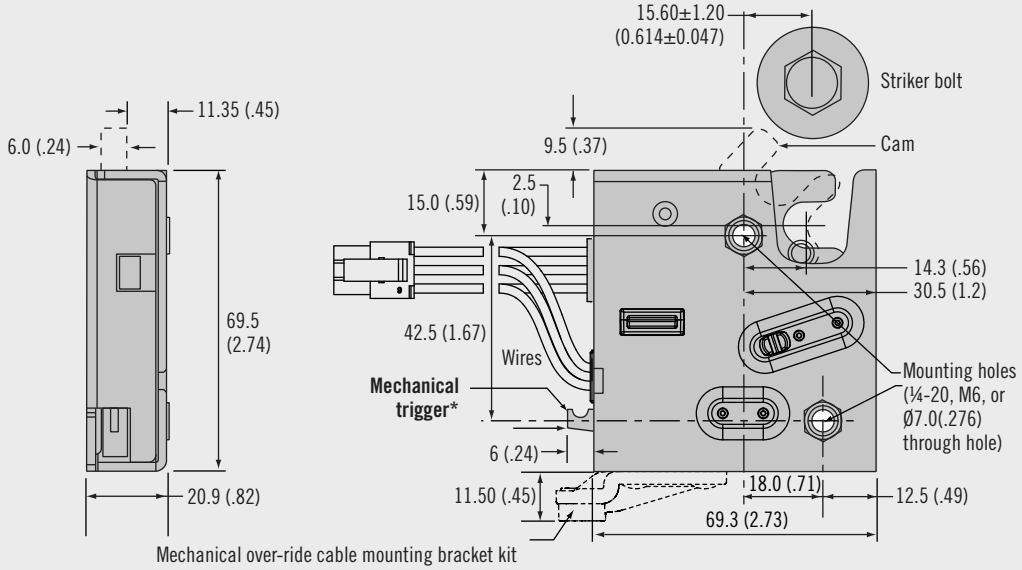
[C] **Connector Options**
1 Non-sealed Connector
2 No Connector (Stripped and Tinned)
3 Sealed Connector

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

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

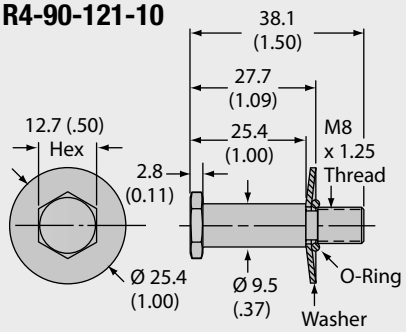
[S] **Switch Options**
3 No Switch
6 Single Switch (Cam Only)

Side Trigger Version

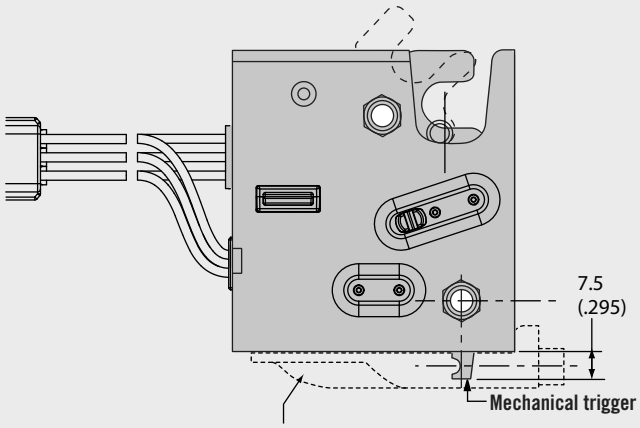


Mechanical over-ride cable mounting bracket kit for side trigger latch (R4-EM-52).
Contact Clancey for mechanical over-ride solutions

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

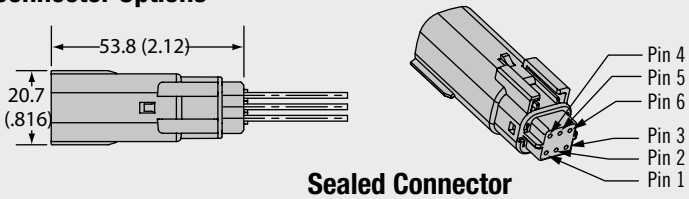


Rear trigger Version

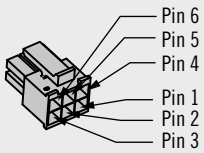


Mechanical over-ride cable mounting bracket kit for rear trigger latch (R4-EM-87).
Contact Clancey for mechanical over-ride solutions.

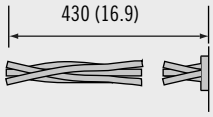
Connector Options



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

CAD POWERED

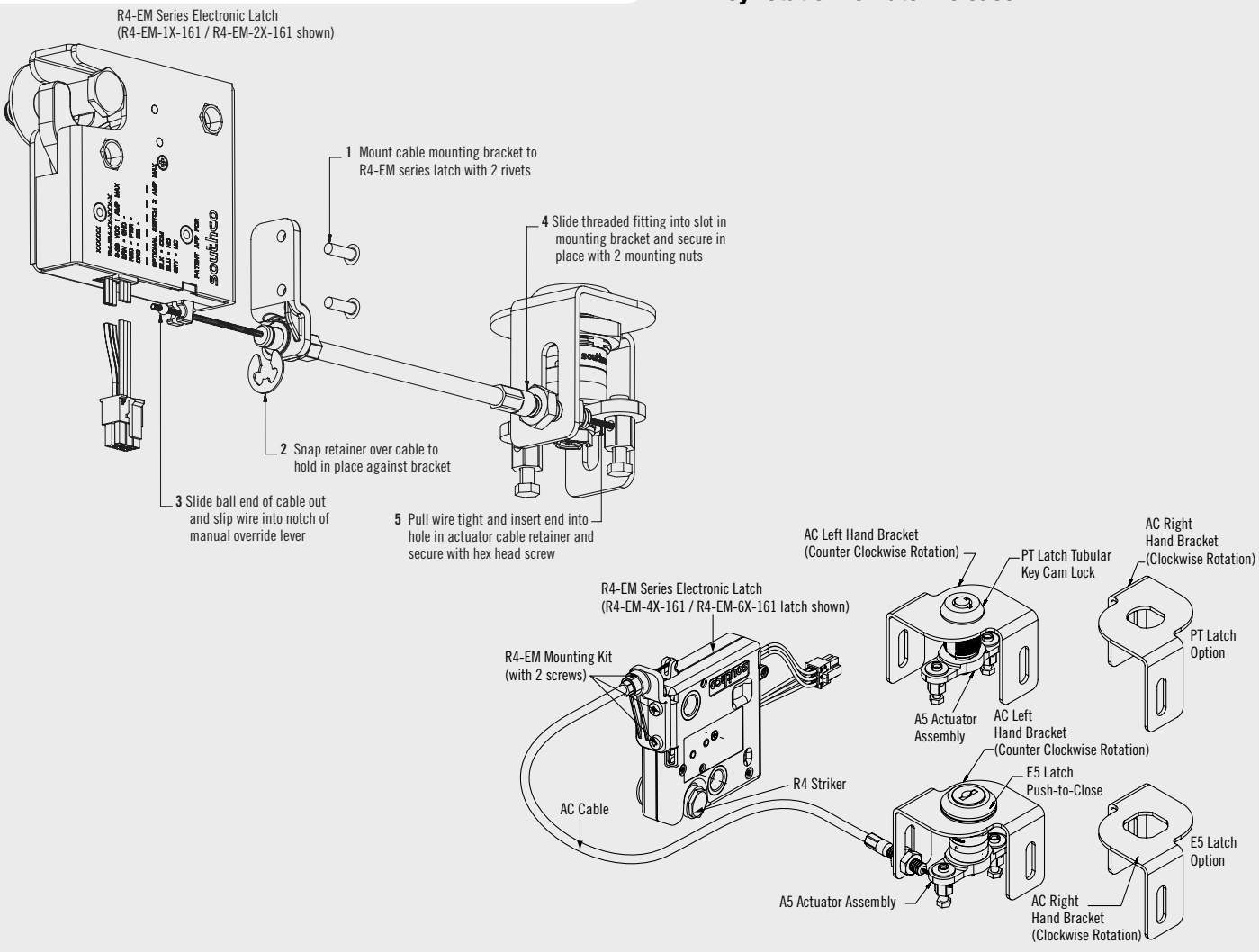
southco® AUTHORIZED DISTRIBUTOR

R4-EM MECHANICAL OVERRIDE SYSTEM



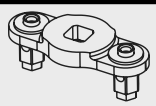
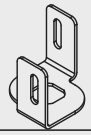
Southco now offers a standard solution for remote mechanical actuation of the R4-EM Electronic Rotary Latch. The cable based solution provides a simple means of mechanically releasing the electronic lock in the event of electrical power loss providing fully redundant access.

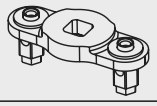
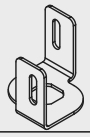
- **Adapts to any standard Southco R4-EM Electronic Rotary Latch.**
- **Choose from flat key or tubular key cam latch for remote key lock.**
- **Simple installation with multiple adjustments and customized cable lengths to suit any application.**
- **Accommodates clockwise or counter clockwise key rotation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



clancey DESIGN DISTRIBUTOR

AC CABLE ASSEMBLY

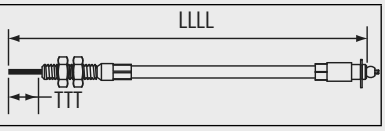
	DESCRIPTION	PART NUMBER	
E5 Latch **Push-to-Close assembly** See drawing J-E5-53-A	A5 Actuator	**A5-99-136**	
	AND		
	AC Cable Bracket (Clockwise Rotation)	**AC-0-49617-11-R**	
	OR		
	AC Cable Bracket (Counter Clockwise Rotation)	**AC-0-49617-11-L**	

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

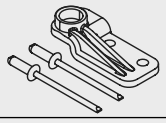
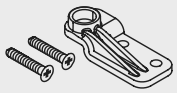
How to Order

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



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

Step 2
Determine mechanical cable length required

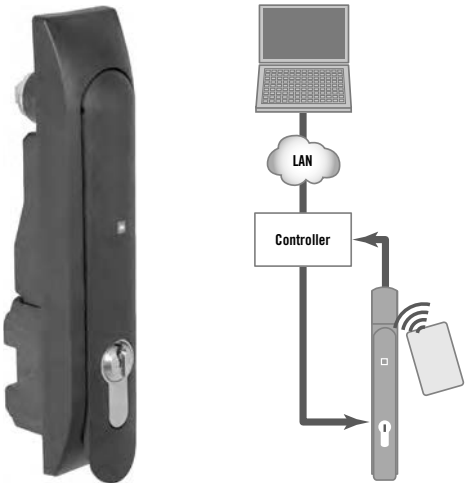
Mechanical Override Bracket for R4-EM-1X and R4-EM-2X versions See drawing J-R4-EM-52	**R4-EM-52**	
Mechanical Override Bracket for R4-Em-4X and R4-EM-6X versions. See drawing J-R4-EM-72	**R4-EM-72**	

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

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

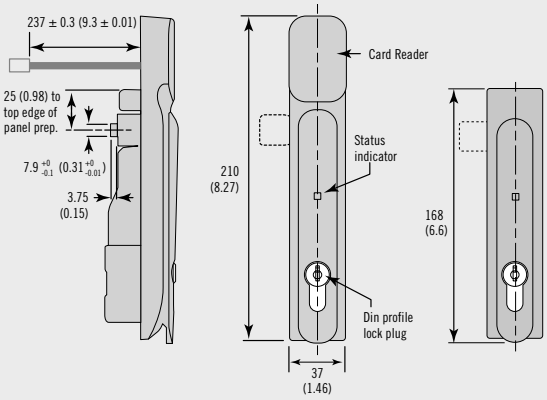
H3-EM ELECTRONIC LOCKING SWINGHANDLE



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.**

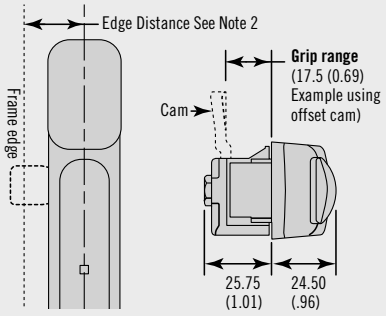
Swinghandle with Card Reader



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 **

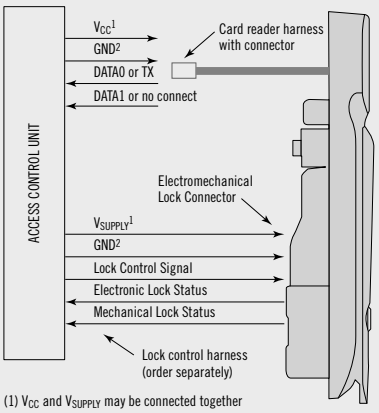
[L] Lock style
- **1** High Security DIN Lock
- **2** Key Code CH-751
- **3** Key code RS001 (Multiple RS Key Codes Available)



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

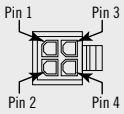
Connection Diagram



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

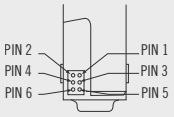
Connector Pin Assignment

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)



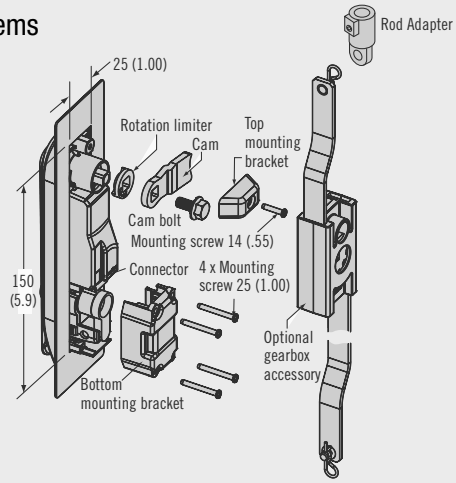
Electronic Swinghandle (Hirose DF11 Series)

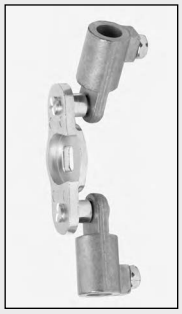
PIN 1: Ground
PIN 2: Power (Vsupply)
PIN 3: Not Used
PIN 4: Control signal
PIN 5: Electronic lock status output
PIN 6: Mechanical lock status output



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

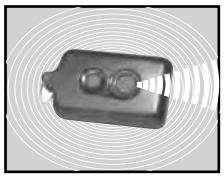
CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

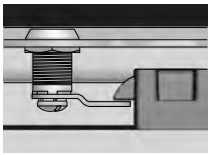
EM-10 ELECTRONIC KEEPER

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

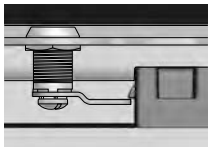




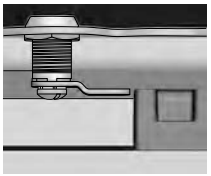
ELECTRONIC ACTUATION EXAMPLE:



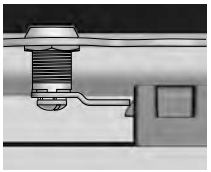
1 Closed



2 Electronic signal retracts latch bolt temporarily.

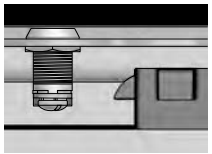


3 Open





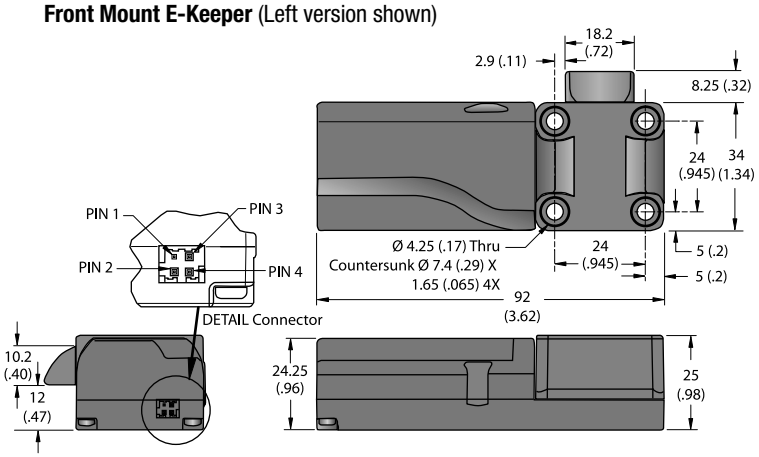
MANUAL ACTUATION EXAMPLE:



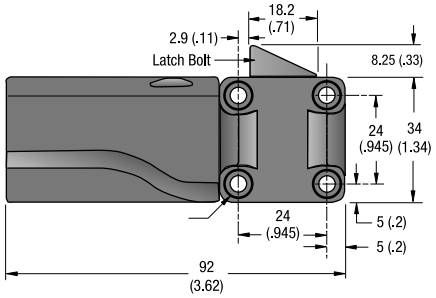
Simply use key to rotate mechanical cam mechanism from behind latch bolt.

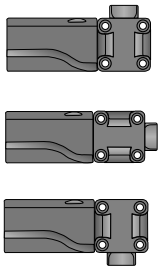
Key provides mechanical override in case of power loss.

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.

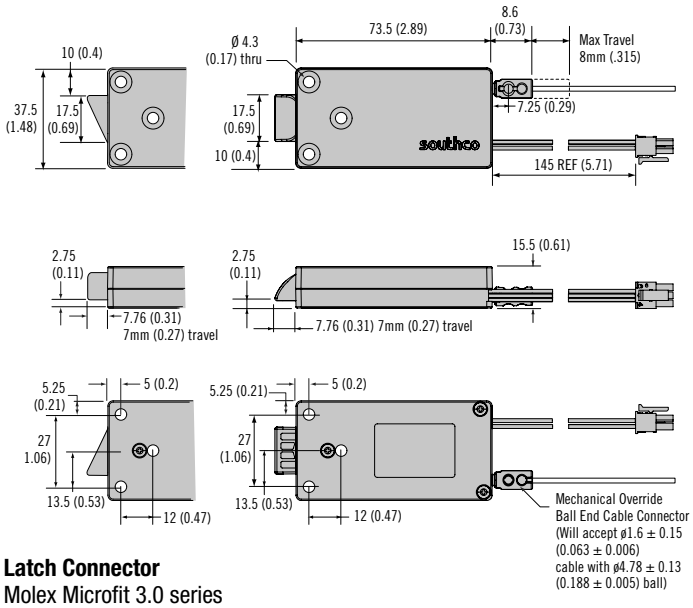
1-800-747-7405
www.clancey.com

EM-05 MINIATURE ELECTRONIC KEEPER

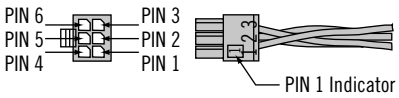
- **Simple transition from mechanical to electronic access**
- **"Push-to-close" convenience for any application – retrofit or new installation.**
- **Front mount and side mount versions.**
- **Concealed latching.**
- **Microprocessor controlled gear motor.**
- **Minimal power draw.**
- **Simple mechanical 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.**



Side Mount **Front Mount**



Latch Connector
Molex Microfit 3.0 series



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)

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

CAD POWERED

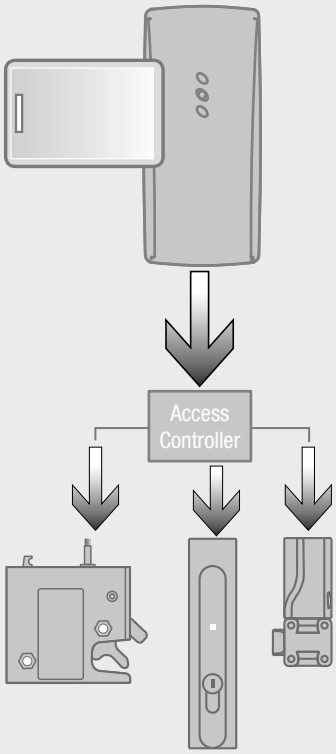
southco® AUTHORIZED DISTRIBUTOR

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.**

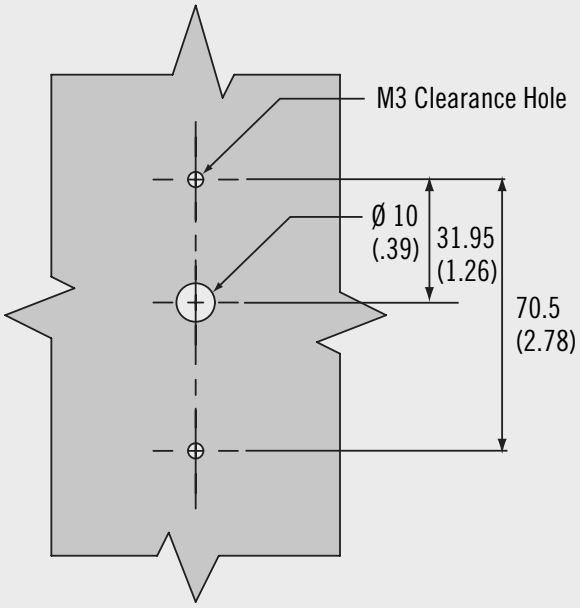


Wire Harness Legend	
Wire Color	Function
Red	VCC (12VDC)
Black	GND
White	Data 1
Green	Data 0
Yellow	GND
Brown	No Function
Orange	No Function
Blue	No Function

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

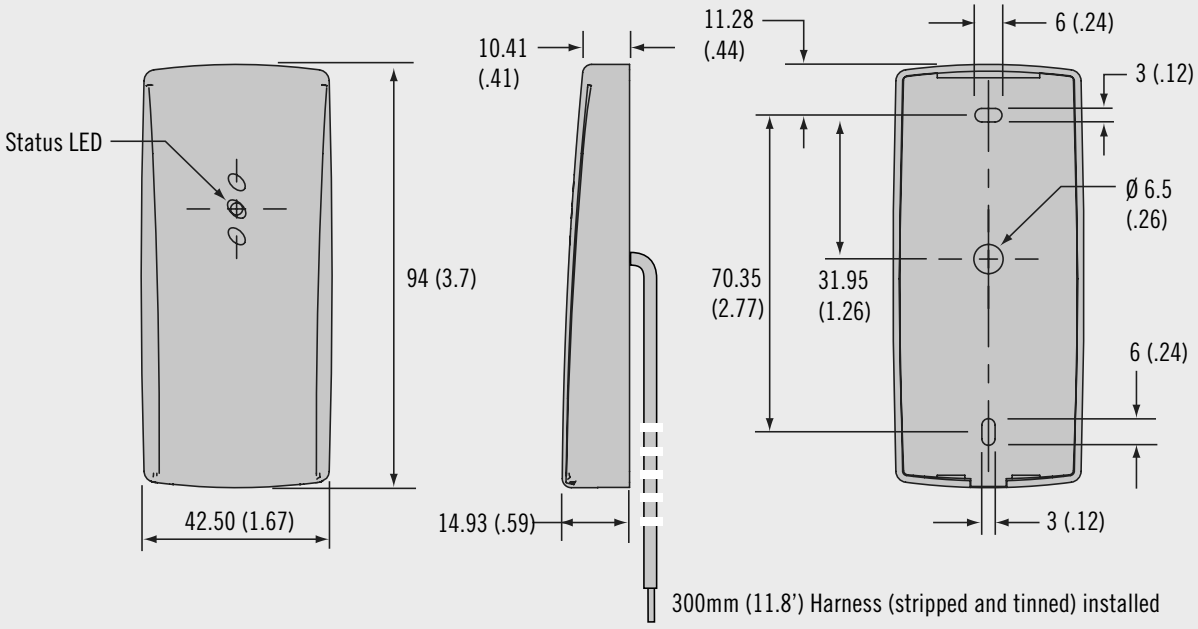
Operating Humidity: 20-90% RH, No condensation

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

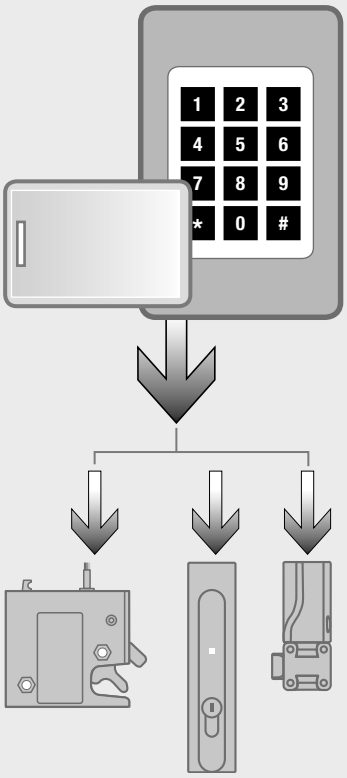
southco® AUTHORIZED DISTRIBUTOR

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.**



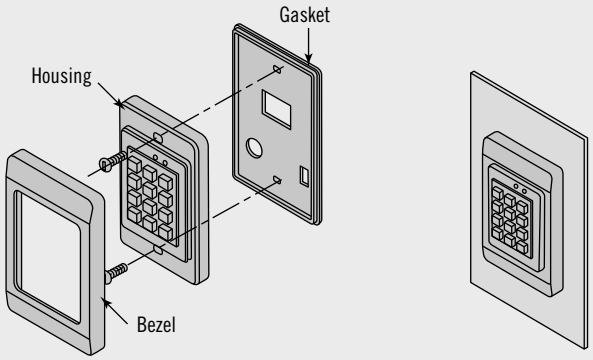
Additional Features

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

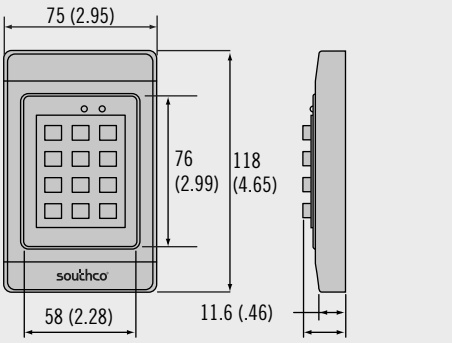
Tamper switch provides output if controller is removed from mounted surface.

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

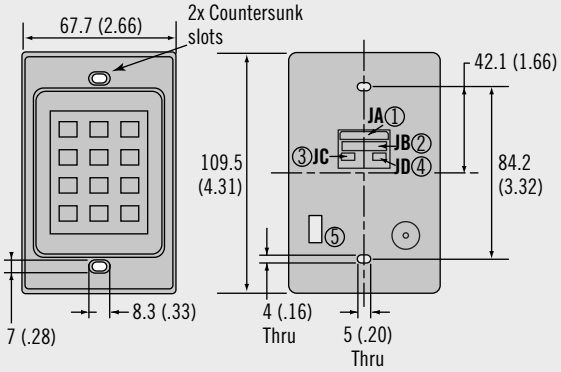
Mounting



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

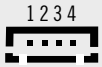
1 (Red)	←	+12 VDC
2 (Black)	←	Ground
3 (Brown)	→	NO
4 (Orange)	←	COM
5 (Yellow)	→	NC
6 (Green)	←	Auxiliary input
7 (Blue)	←	X
8 (Purple)	←	X
9 (Grey)	←	X

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

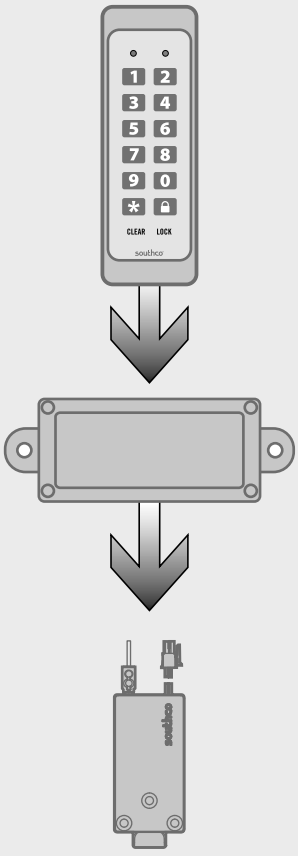
Proximity card: EA - C1 - 011 (contact Clancey for custom color and logo options)

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

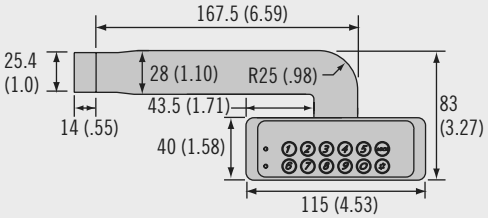


Medical Storage

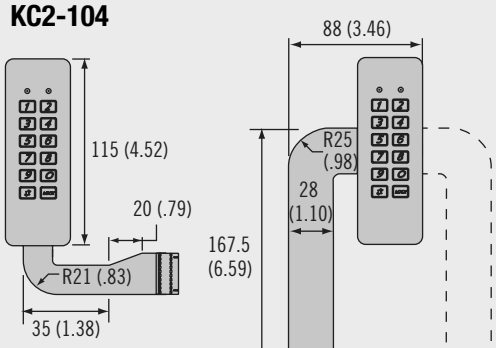


Server Racks

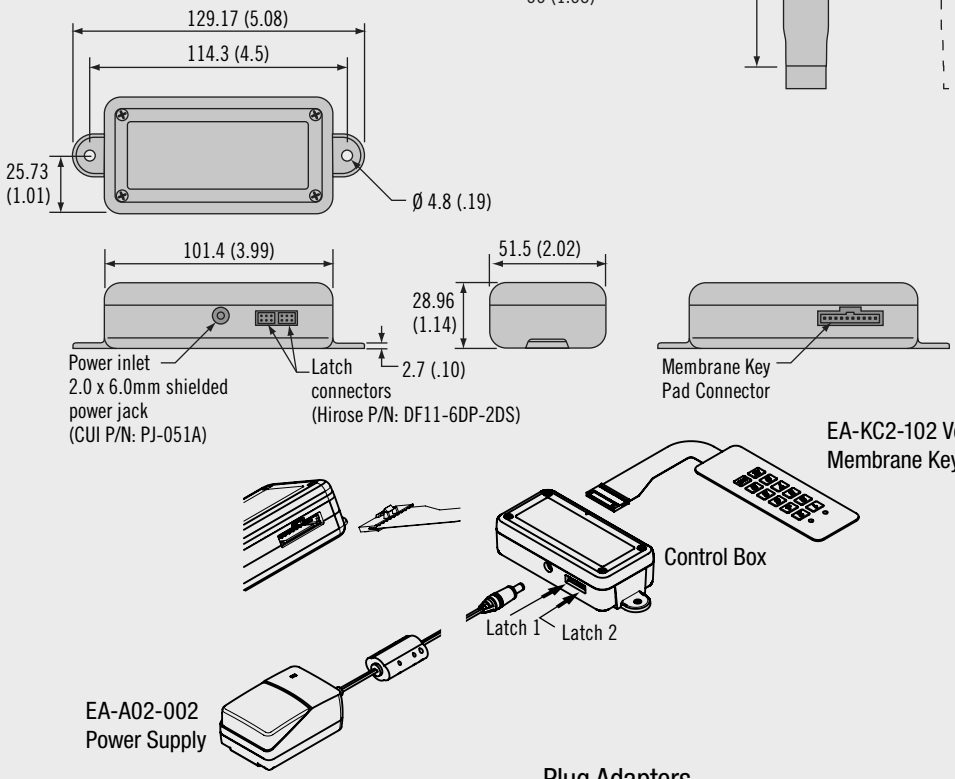
Horizontal Key Pad
Part Number EA-KC2-101



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.

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

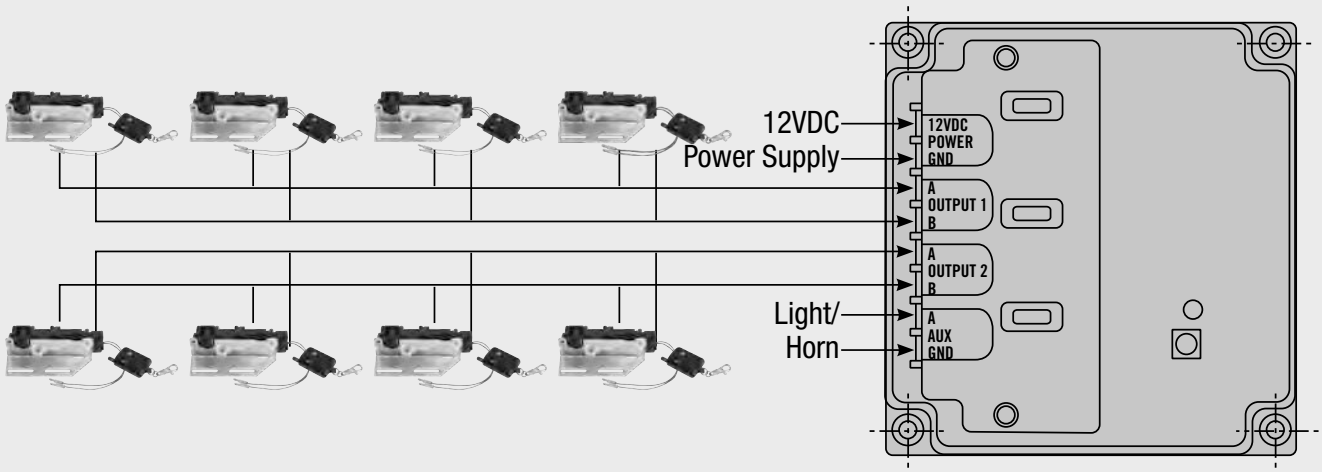
EA-R01 RF CONTROLLER



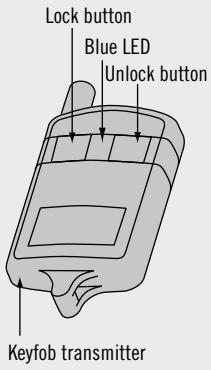
RF CONTROLLER KIT PART NUMBER: EA-R01
Includes 1 receiver (EA-R01-201) and 2 transmitters (EA-R01-101)

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.

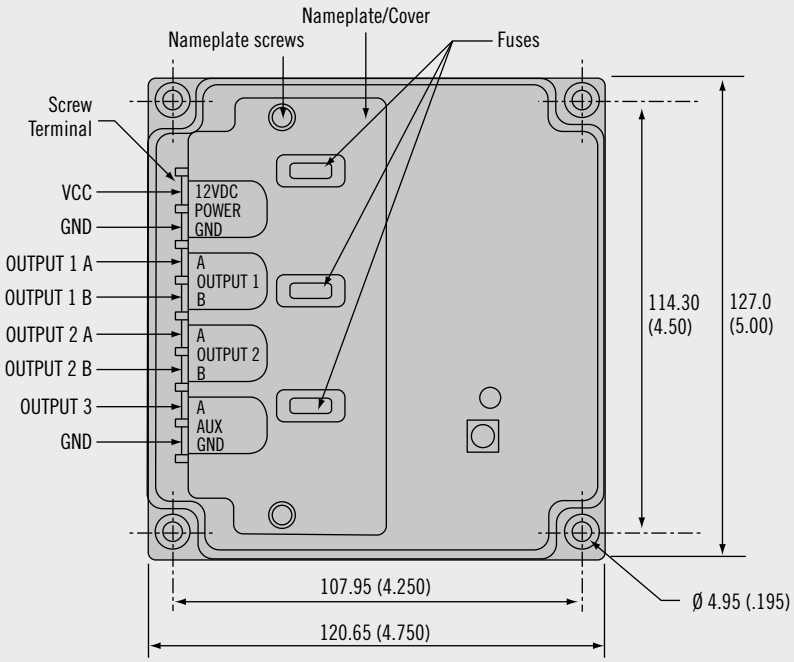
- **Durable, water-proof construction.**
- **Dual sequenced output outputs minimize battery drain.**
- **Fused 30 Amp outputs accommodate multiple latches.**
- **Auxiliary light/horn output for visual/audible lock confirmation.**
- **Labeled connections for easy setup.**
- **Simple transmitter programming.**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

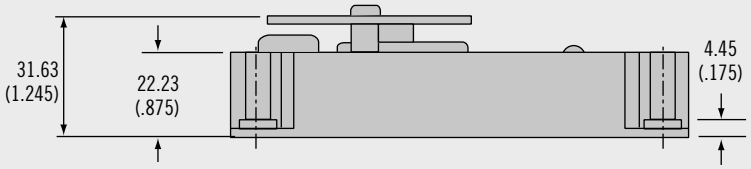


Transmitter



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

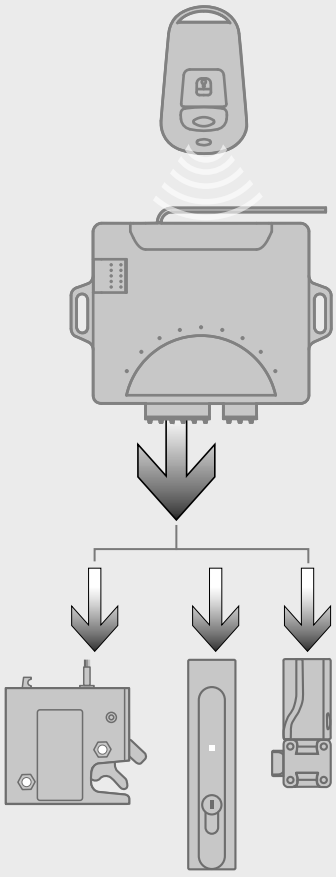
Simple push-button learn feature with LED feedback for enrolling transmitters. Note: EA-R01 shipped with 2 pre-programmed transmitters

EA-R02 RF REMOTE CONTROL SYSTEM

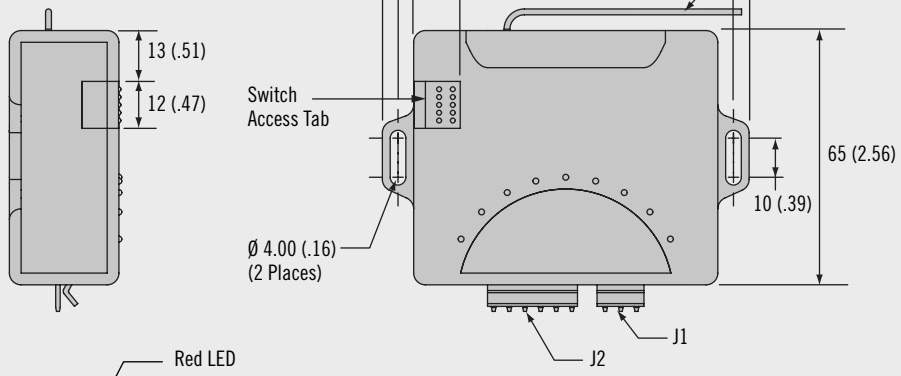


The new EA-R02 RF Remote Control System enables remote actuation of Southco electronic locks in a basic, economical package. The EA-R02 uses a palm-size radio frequency (RF) transmitter for remote locking and unlocking of electronic locks. The keyless system consists of a receiver, two key fob style 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.

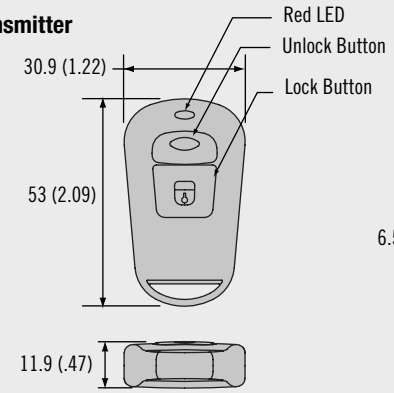
- **Secure, convenient, wireless remote lock actuation.**
- **Quick installation and setup.**
- **Economical and compact package.**
- **Proven 433 MHz radio frequency technology.**
- **Up to 4 transmitters per receiver.**
- **18 meter (60 feet) unobstructed open air operating range.**
- **Auxiliary output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

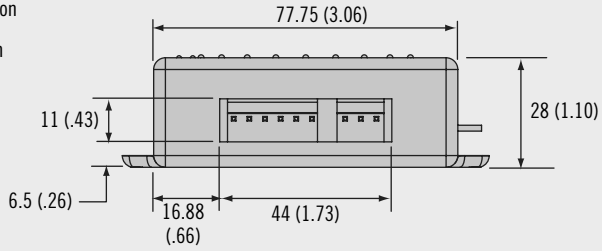


Receiver

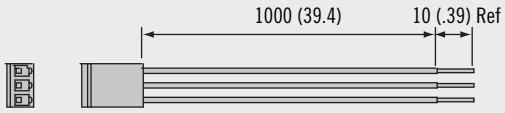


Transmitter



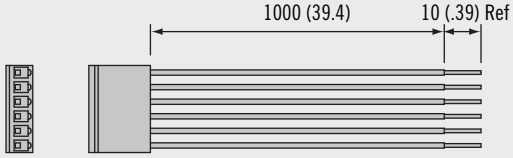


Power Supply and Auxiliary Output Wire Harness (J1)



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, 1 Pair Power/Auxiliary and Lock/Unlock Relay Connector Wire Harnesses and Operating Instructions

CAD POWERED

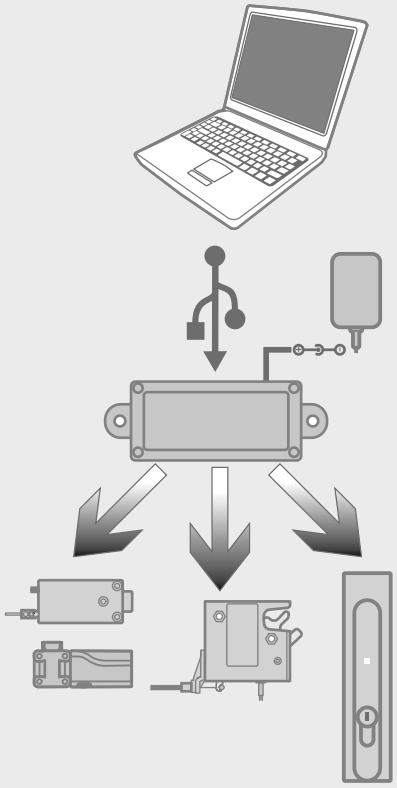
southco® AUTHORIZED DISTRIBUTOR

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



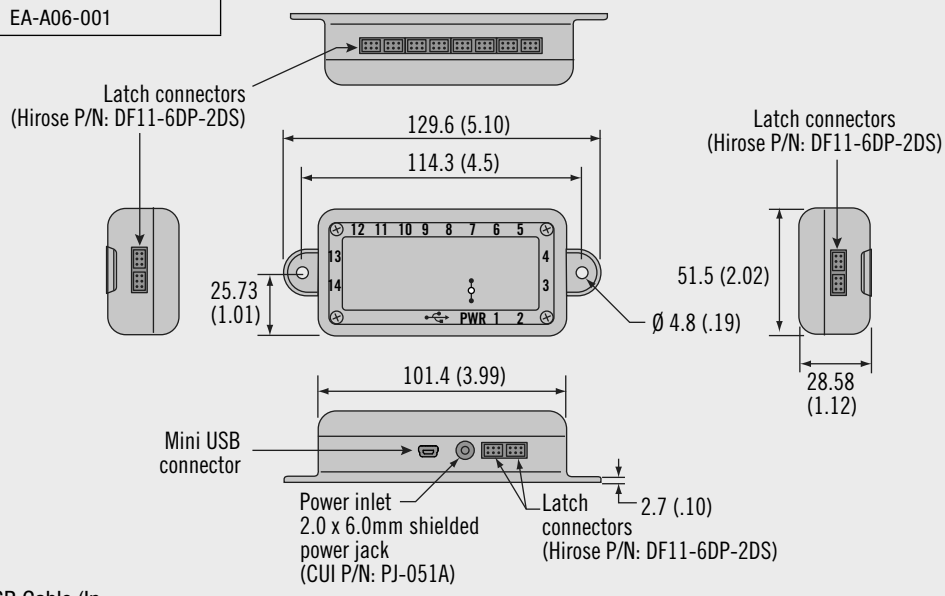
Self Service



Server Access

Controller Assembly

PART NUMBER
EA-A06-001



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



1 Meter USB Cable (Included)



EA-A02-002
Power Supply



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.

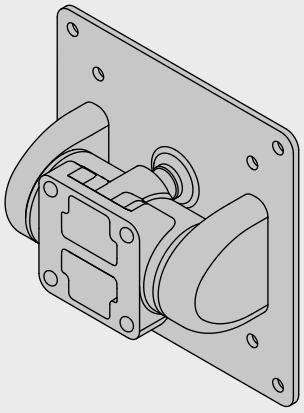
CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

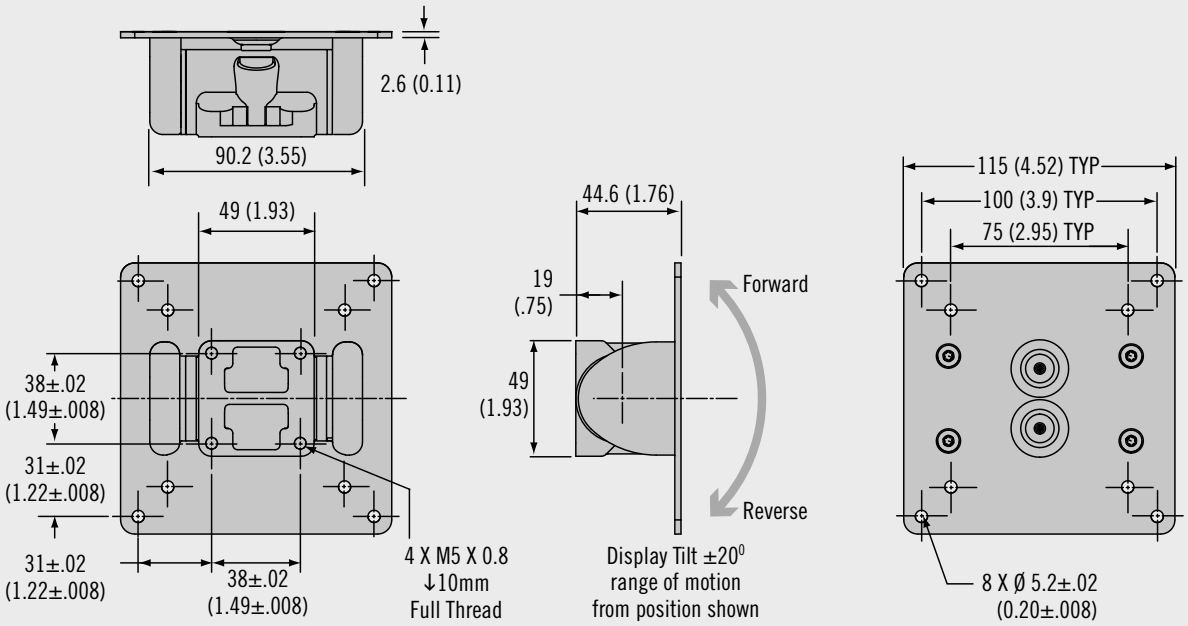
AV SERIES DYNAMIC MOUNT TILT



- **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.**



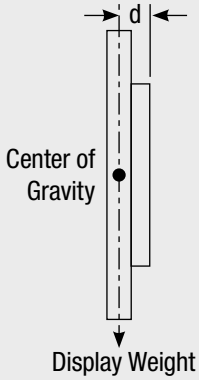
Product Detail



Specification and Selection

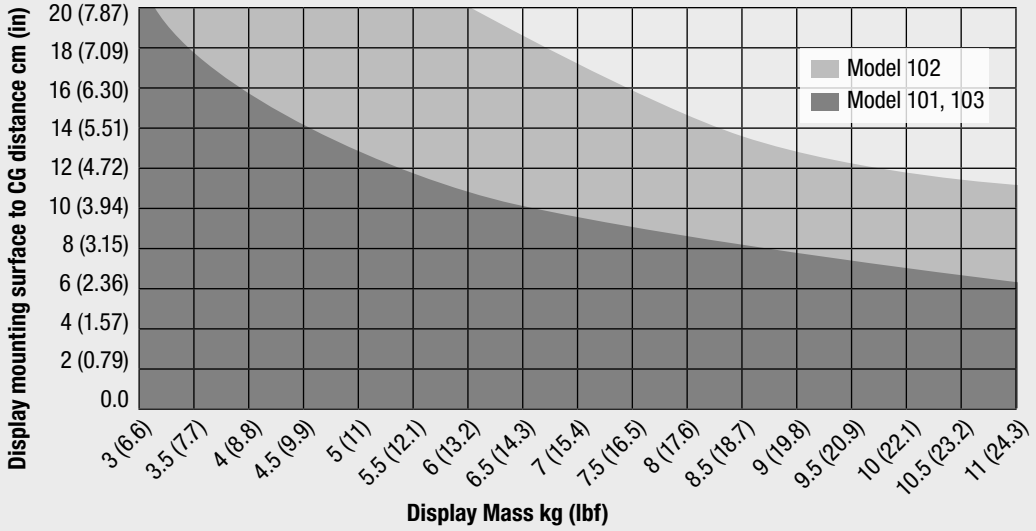
Step 1

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

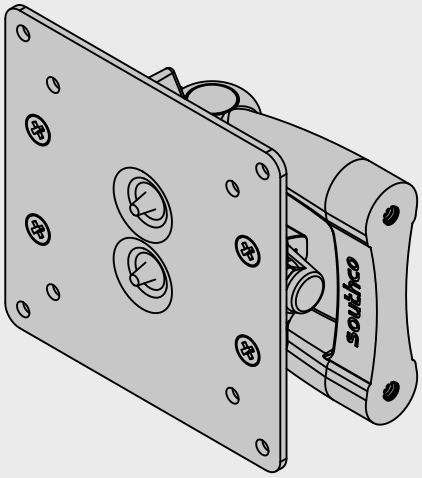
CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

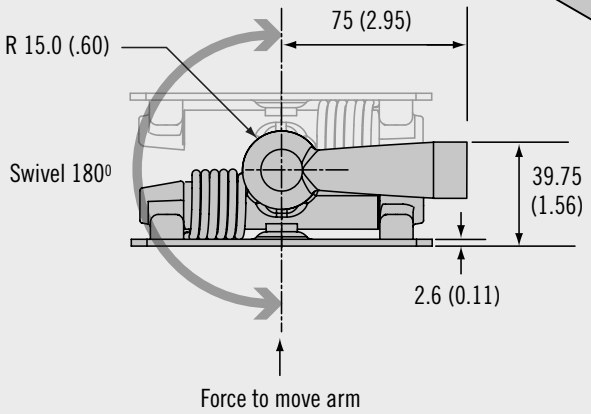
AV SERIES DYNAMIC MOUNT TILT & SWIVEL

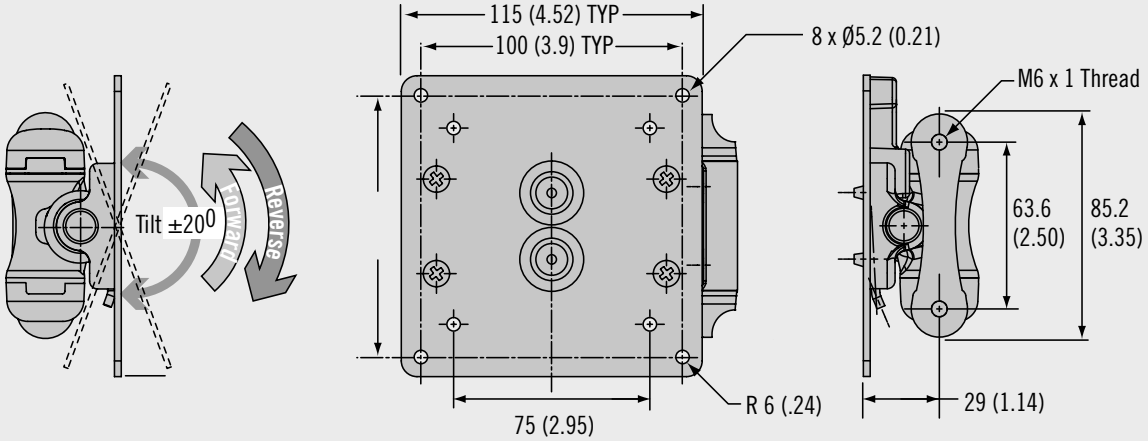


- **Intuitive grab and move operation enhances the user experience.**
- **No knobs or tools required to reposition the display.**
- **Precise control of operating effort ensures ideal "feel" and eliminates "drift."**
- **Holds securely, even in applications with dynamic loading.**
- **Consistent repeatable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



Product Detail

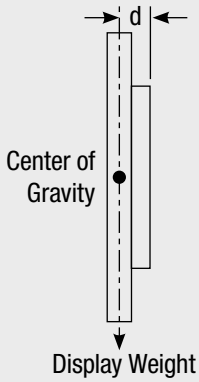




Specification and Selection

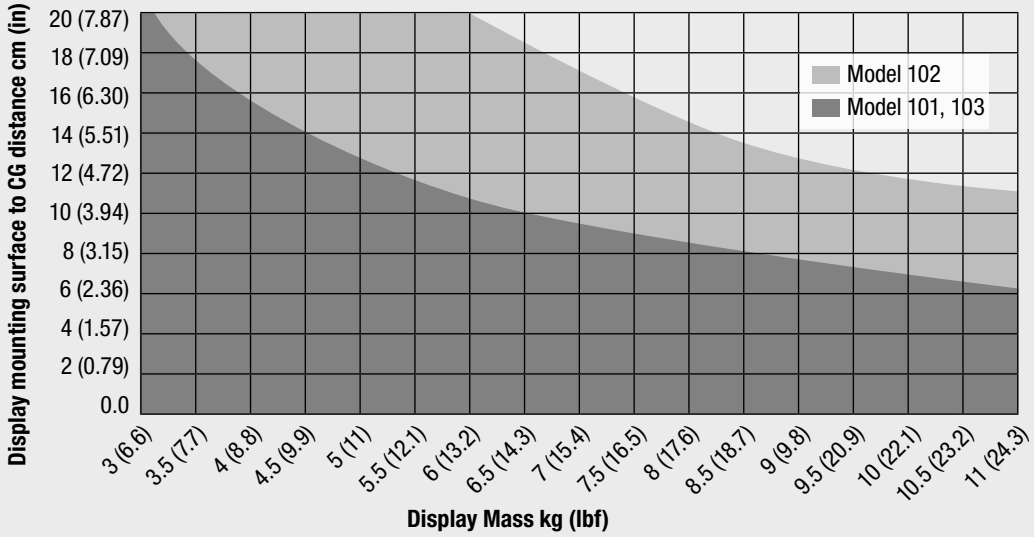
Step 1

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

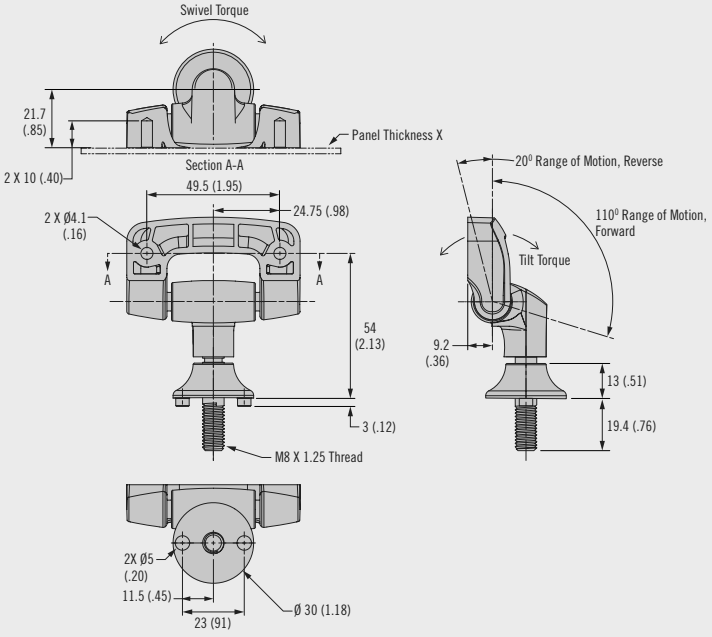
southco® AUTHORIZED DISTRIBUTOR

AV SERIES DYNAMIC MOUNT TILT & SWIVEL COMPACT

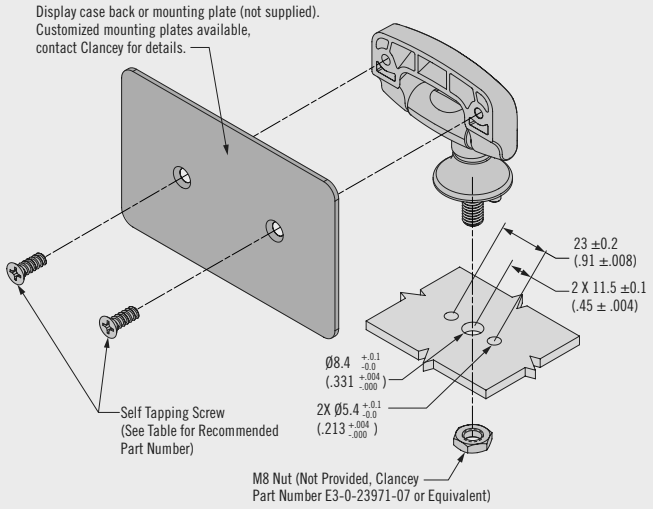


- **Intuitive grab and move operation enhances the user experience.**
- **No knobs or tools required to reposition the display.**
- **Consistent repeatable operation.**
- **Factory assembled and ready for use.**
- **Smooth operation enhances the user experience.**
- **Adjust the display without knobs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

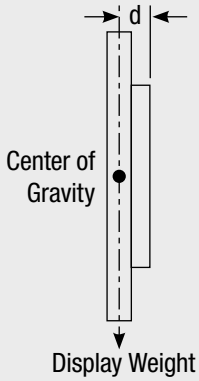
Caution: Because of the wide variety of panel materials, it is the installer's responsibility to ensure that the materials and structure to which the product is mounted and the hardware selected will provide adequate support.

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

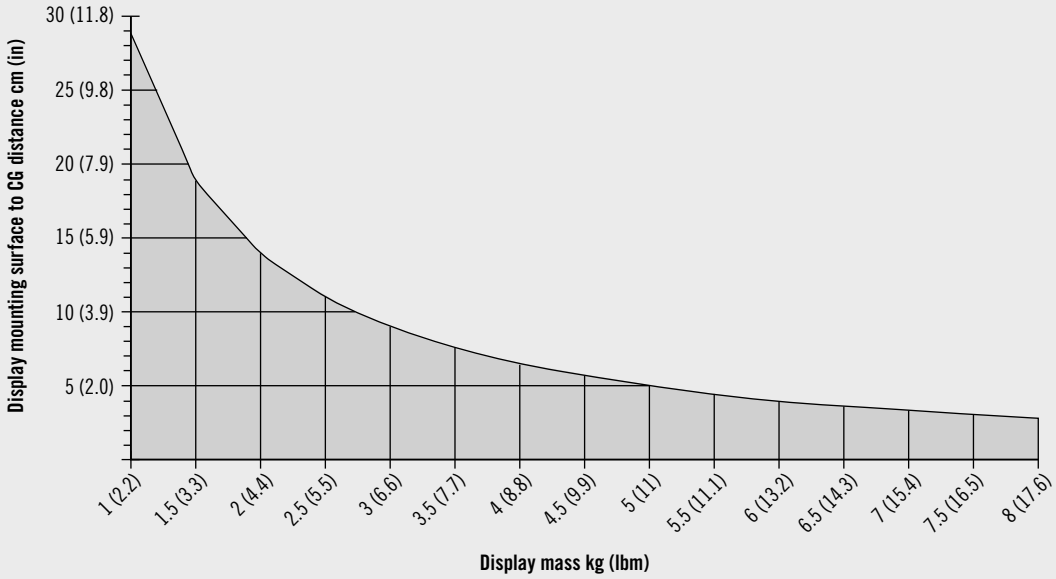
Cycle performance

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

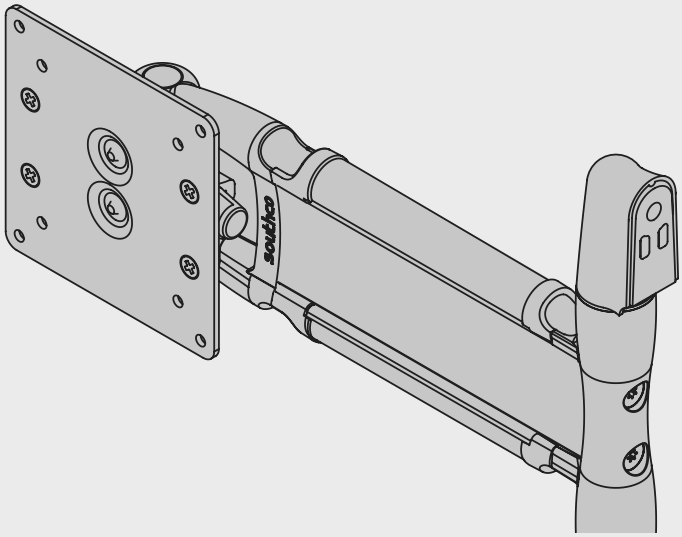
southco® AUTHORIZED DISTRIBUTOR

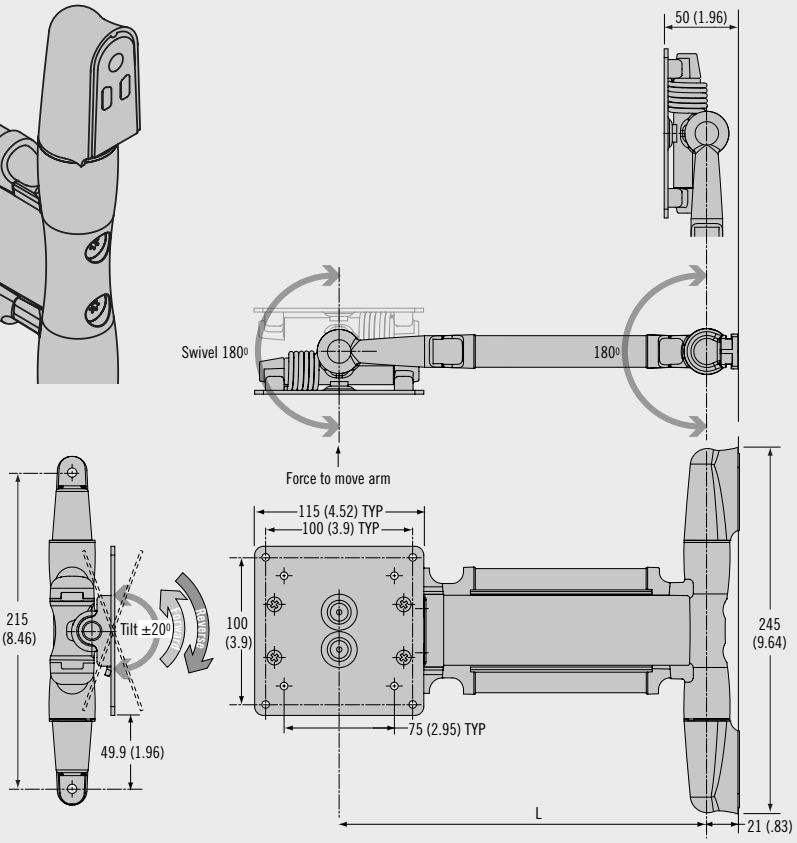
AV SERIES DYNAMIC MOUNTING ARM
TILT, SWIVEL, & SWING



- **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

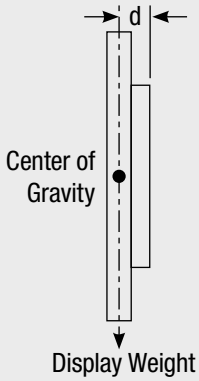




Specification and Selection

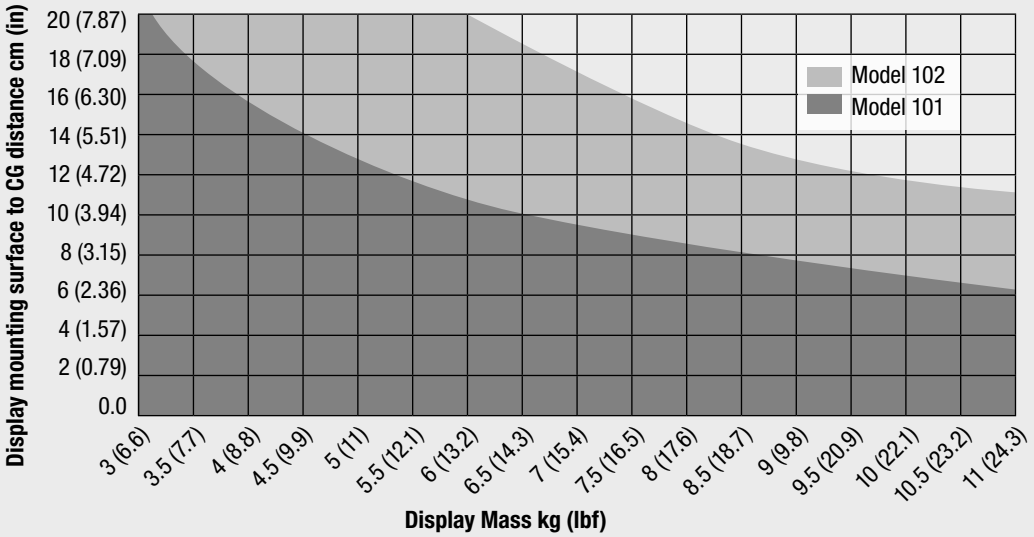
Step 1

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

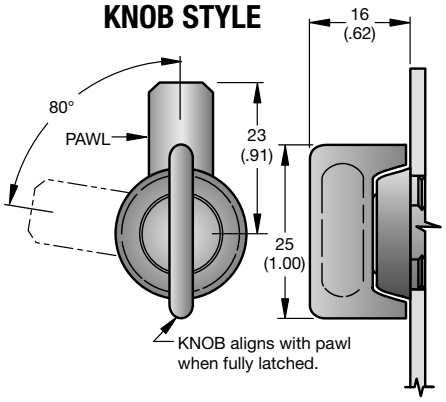
VISE ACTION™ SERIES SMALL SIZE

NEMA 4

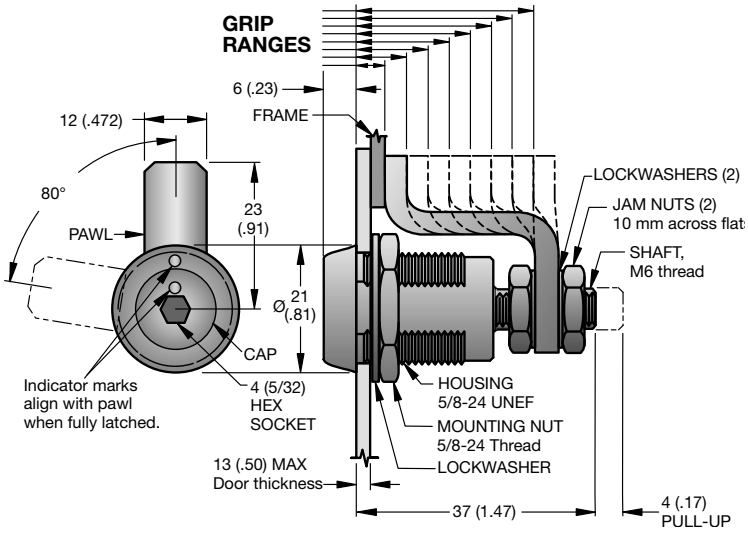
- **Compact size.**
- **Single hole mount.**
- **4 mm (.170") compression "pull-up".**
- **Adjustable grip.**
- **Suitable for NEMA 4 with gasket accessory.**



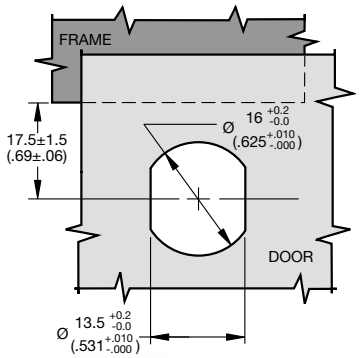
KNOB STYLE



TOOL OPERATED, SLOTTED RECESS, AND KEY OPERATED STYLES



PANEL PREPARATION



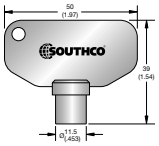
GRIP RANGE		HEAD STYLES			
		SLOTTED RECESS	TOOL OPERATED	KNOB	KEY OPERATED
MIN.	MAX.	PART NUMBERS, BLACK FINISH			
3.2 (.125)	6.4 (.250)	E3-59-15	E3-56-15	E3-57-15	E3-55-15
6.4 (.250)	9.5 (.375)	E3-59-25	E3-56-25	E3-57-25	E3-55-25
9.5 (.375)	12.7 (.500)	E3-59-35	E3-56-35	E3-57-35	E3-55-35
12.7 (.500)	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



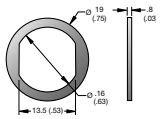
E3-27-61
(in line w/pawl)
E3-27-62
(perpendicular w/pawl)

SEALING COVER



90-1

GASKET

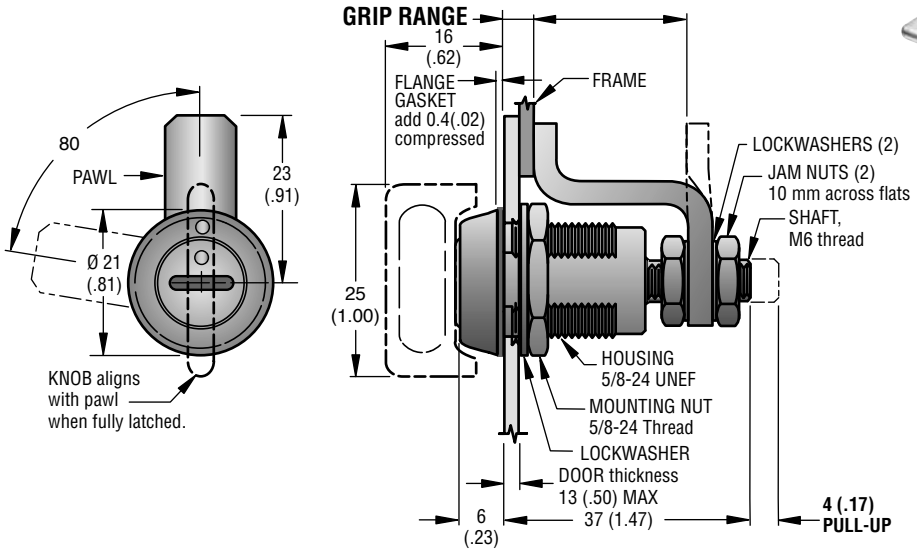


E3-0-30268-02

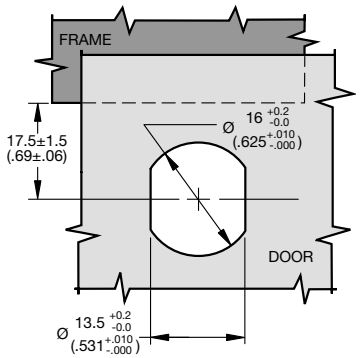
- **Compact size.**
- **Single hole mount.**
- **4 mm (.170") compression "pull-up".**
- **Adjustable grip.**
- **Suitable for NEMA 4 applications.**

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

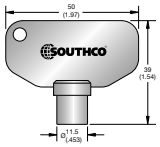
For detailed material specifications and product strength guidelines.

www.clancey.com

NOTE: Sealing flange gasket is included.

ACCESSORIES (ORDER SEPARATELY)

KEY



E3-26-819-15

PULL

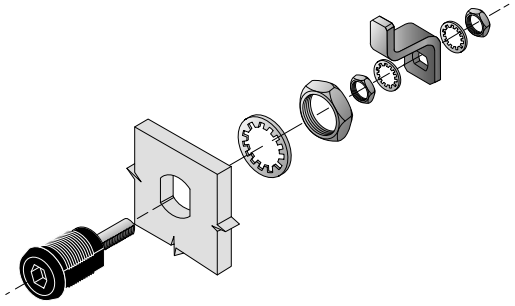


E3-27-61
(in line w/pawl)
E3-27-62
(perpendicular w/pawl)

SEALING COVER



90-1

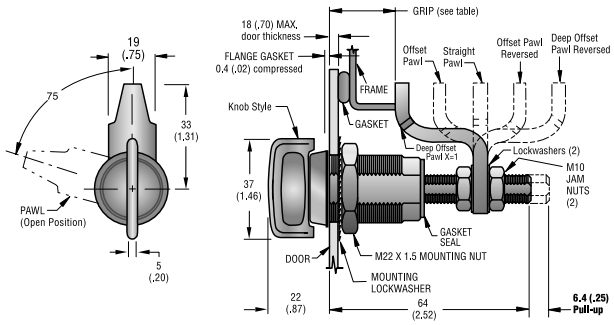


STAINLESS STEEL VISE ACTION™ LARGE SIZE KNOB, ADJUSTABLE GRIP

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.**



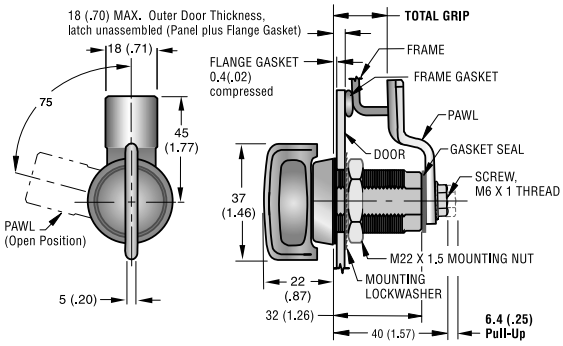
GRIP RANGE (Adjustable Grip)		PART NUMBER
MIN.	MAX.	
11.4 (.45)	27.2 (1.07)	E3-17-112
25.4 (1.00)	41.1 (1.62)	E3-17-212
38.9 (1.53)	54.6 (2.15)	E3-17-312
REVERSED PAWL		
52.6 (68.3)	68.3 (2.69)	E3-17-212
66.3 (2.61)	76.2 (3.00)	E3-17-112

STAINLESS STEEL VISE ACTION™ LARGE SIZE KNOB, FIXED GRIP

NEMA 4 · STAINLESS · CLEAN from CLANCEY

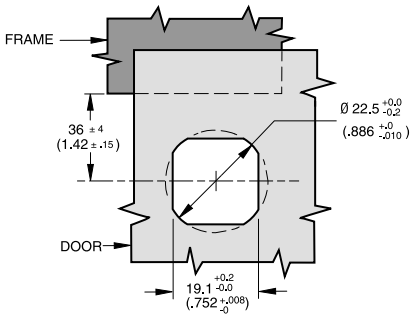


- **Fixed grip allows for quick installation.**



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.**

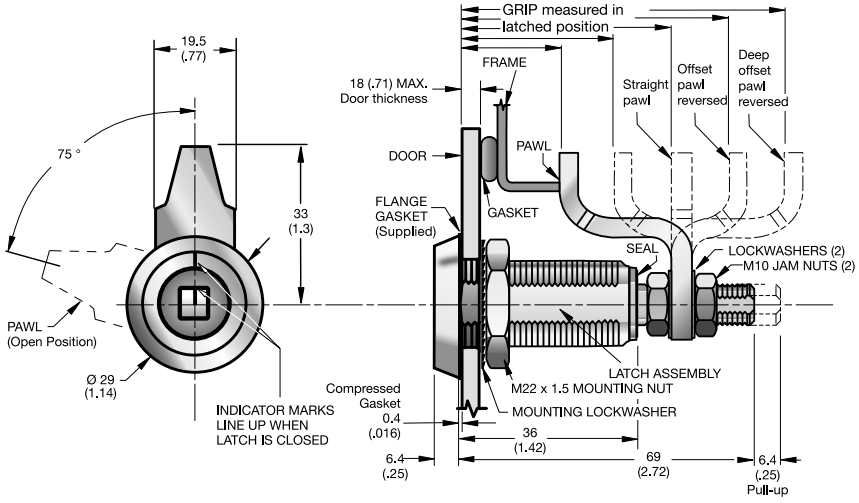
For detailed material specifications and product strength guidelines
www.clancey.com

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

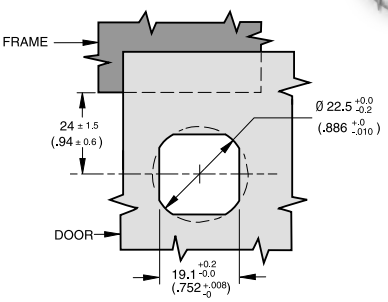
STAINLESS STEEL VISE ACTION™ LARGE SIZE, FLUSH HEAD STYLES







PANEL PREPARATION

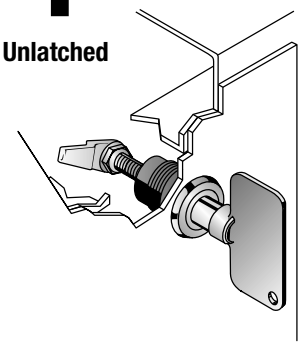


GRIP RANGE		PART NUMBERS - HEAD STYLES						
		Slotted Recess	8 mm Hex Recess	Southco® Tubular Key	Railway Standard	Bellcore 216	7 mm Triangle	3 mm Double Bitted
MINIMUM	MAXIMUM							
16.4 (.65")	32.2 (1.27")	E3-19-10	E3-16-10	E3-15-10	E3-111-10	E3-115-10	E3-13-10	E3-12-10
30.4 (1.20")	46.1 (1.81")	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

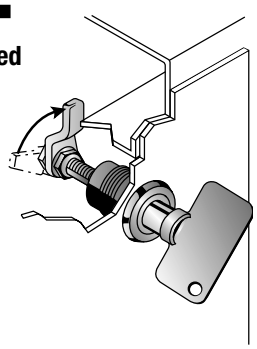
* (Minimal protrusion) mounting is available, please call.

Operation

1 **Unlatched**

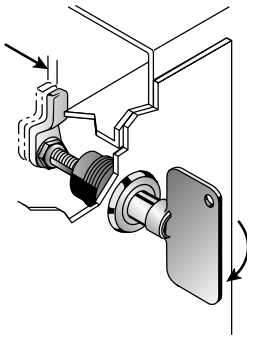


2 **Latched**



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

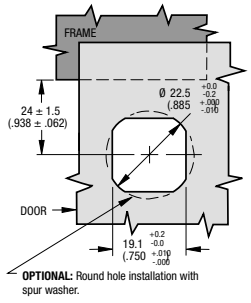
- **Single hole mount.**
- **Internally gasketed.**
- **Adjustable to fit a wide grip range.**
- **Suitable for NEMA 4 applications with use of gasket accessory.**

NEMA 4

MULTI-POINT LATCHING

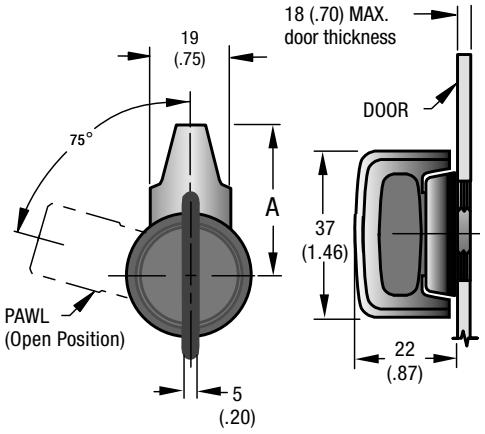


PANEL PREPARATION

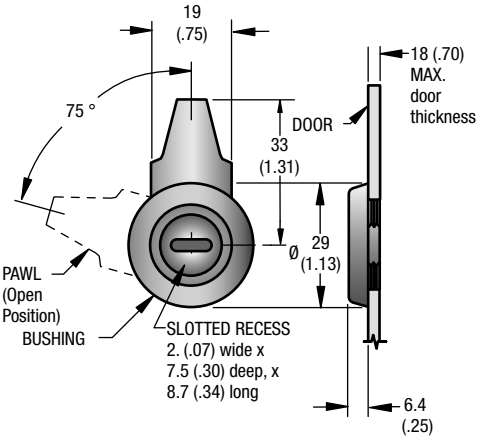


OPTIONAL: Round hole installation with spur washer.

KNOB STYLE

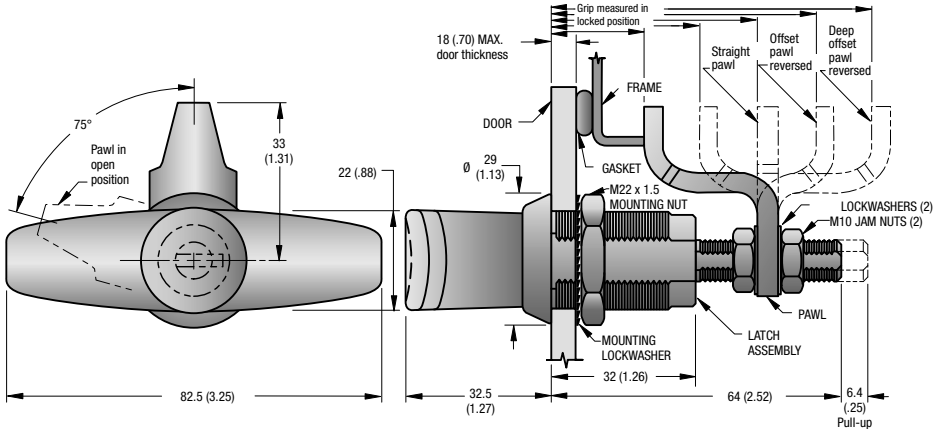


LOW PROFILE HEAD STYLES (slotted recess shown)



For detailed material specifications and product strength guidelines.

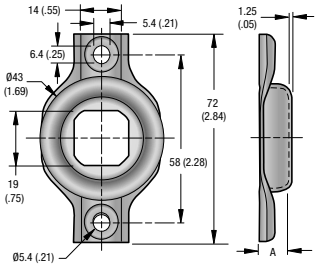
www.clancey.com



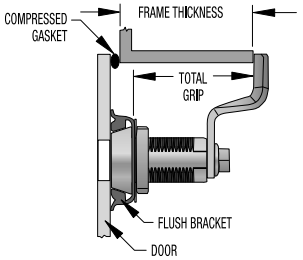
FIXED BRACKET FOR FLUSH MOUNT

- **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

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

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.**

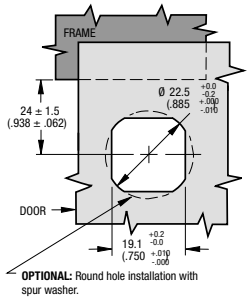
NEMA 4

MULTI-POINT LATCHING

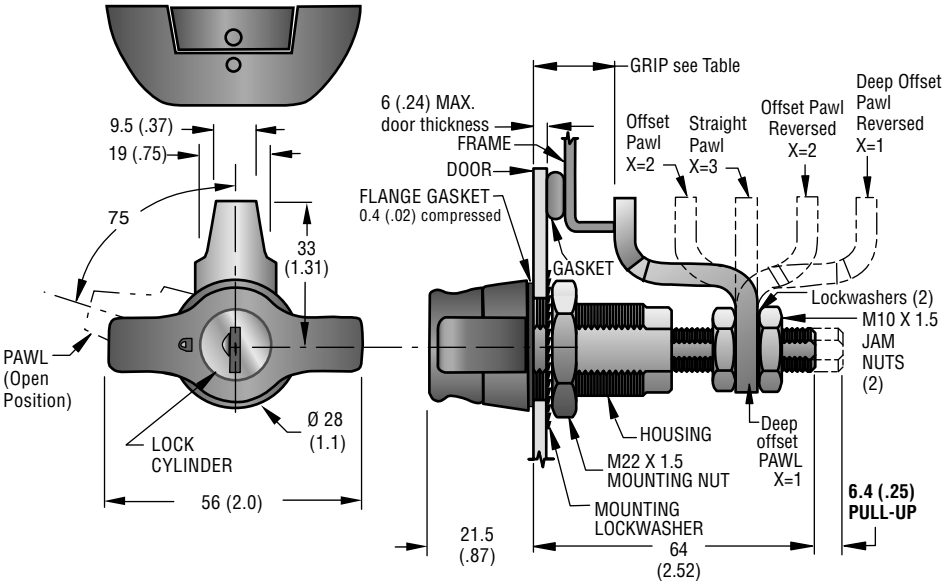


NON-LOCKING VERSION (Shown)

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.

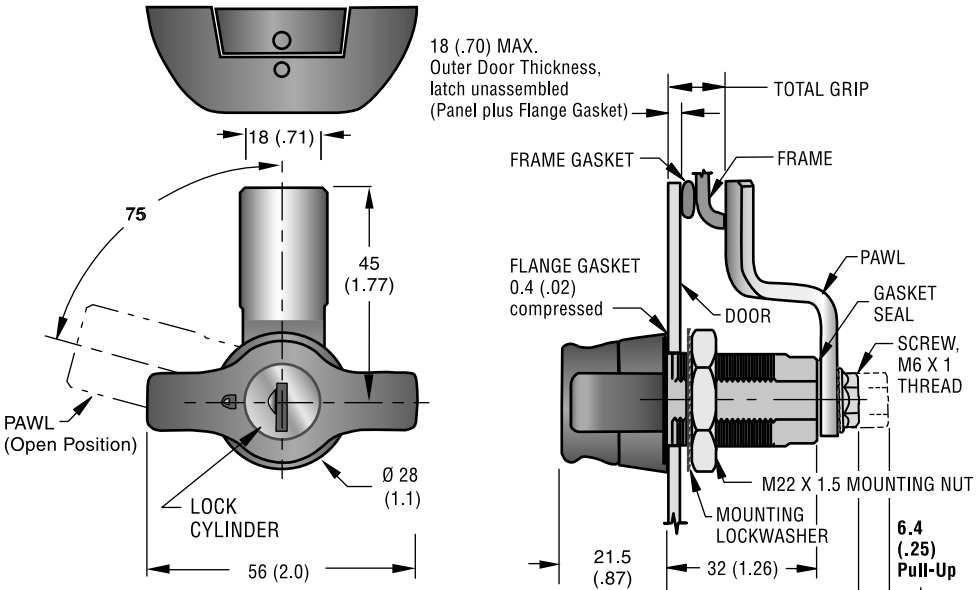
www.clancey.com

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

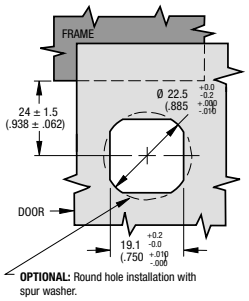
VISE ACTION™ SERIES, WING KNOB, FIXED GRIP



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

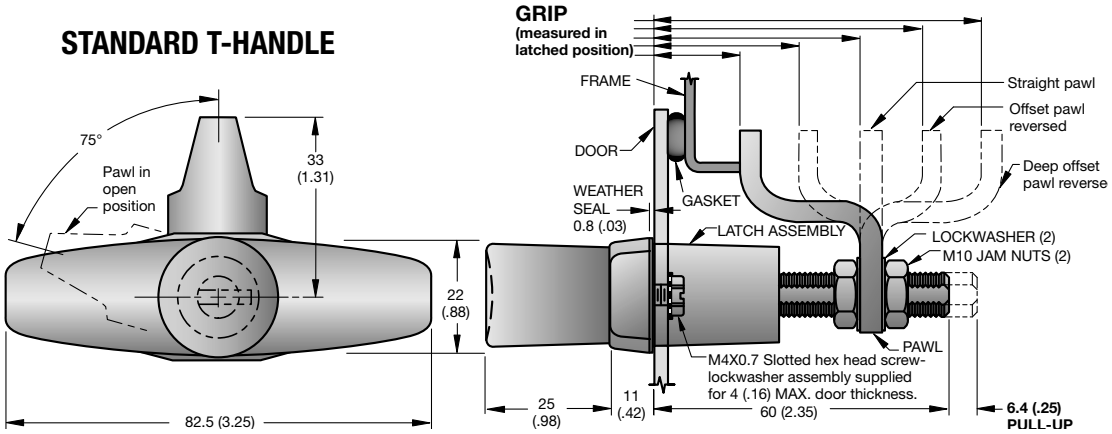
- **Anti-rotation three hole mounting.**
- **Most models can actuate multi-point compression systems.**

MULTI-POINT LATCHING

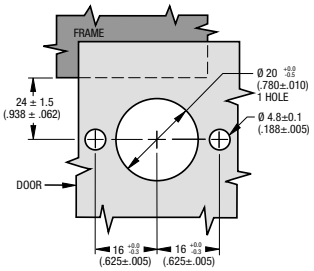


8mm Hex (pictured)

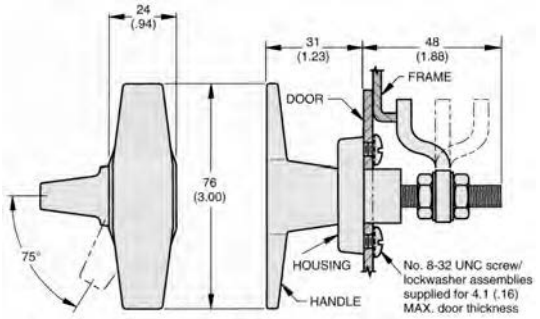
STANDARD T-HANDLE



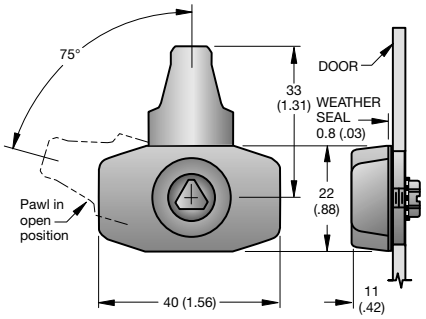
PANEL PREPARATION



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

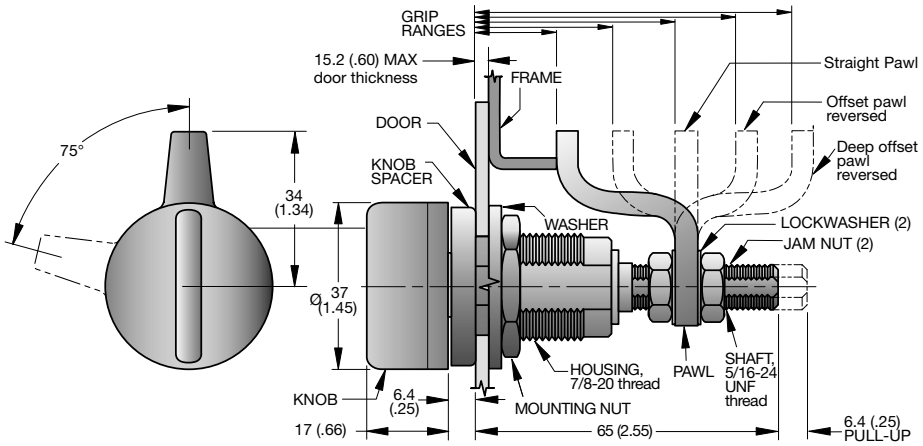
For detailed material specifications and product strength guidelines.

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

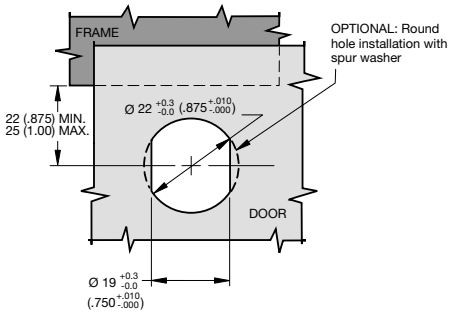


90-6-875

* 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

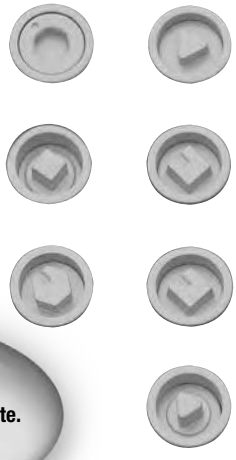


VISE ACTION™ SERIES, FIXED GRIP (MINIMAL PROTRUSION)

- **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

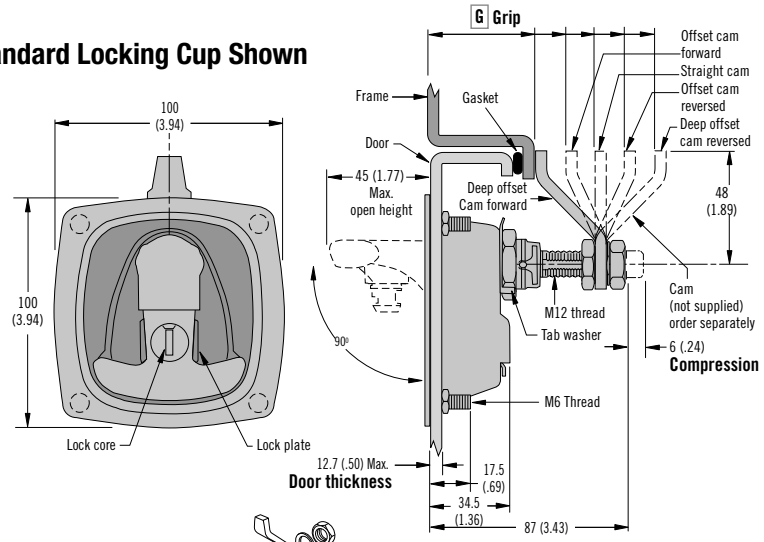
Performance Details
Stainless steel - Max. static load: 2000 N (450 lbf)
Powder coated - Max. static load: 1000 N (225 lbf)

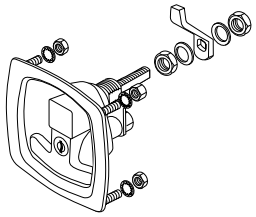
Installation Notes
1. Insert latch and tighten 4 mounting nuts.
2. With latch in closed position, adjust jam nuts to position cam at correct grip.
   Stainless steel - recommended tightening torque: 20-25 N•m (177-221 in lbf).
   Powder coated - maximum tightening torque: 20 N•m (177 in lbf).
3 If using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

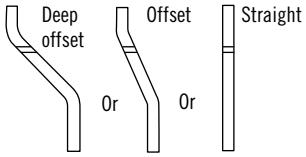
Keys
Key-locking keyed alike CH751 (2 keys supplied).

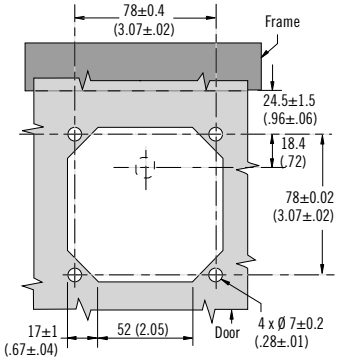


Standard Locking Cup Shown







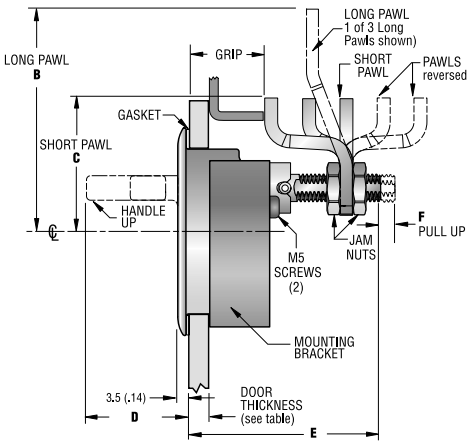


CAM PART NUMBER TABLE (ORDER SEPARATELY)

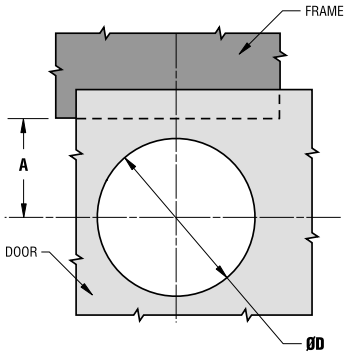
PART NUMBER		G Grip		Cam Type
STAINLESS	ZINC PLATED	Min.	Max.	
N2-21-101-24	N2-21-101-12	28 (1.10)	43 (1.69)	Deep offset cam, forward
		88 (3.46)	104 (4.09)	Deep offset cam, reversed
N2-21-102-24	N2-21-102-12	43 (1.69)	58 (2.28)	Offset cam, forward
		73 (2.87)	88 (3.46)	Offset cam, reversed
N2-21-103-24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



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)	



2.00"
Non-Locking



2.50"
Locking

NEMA 4

STAINLESS

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						

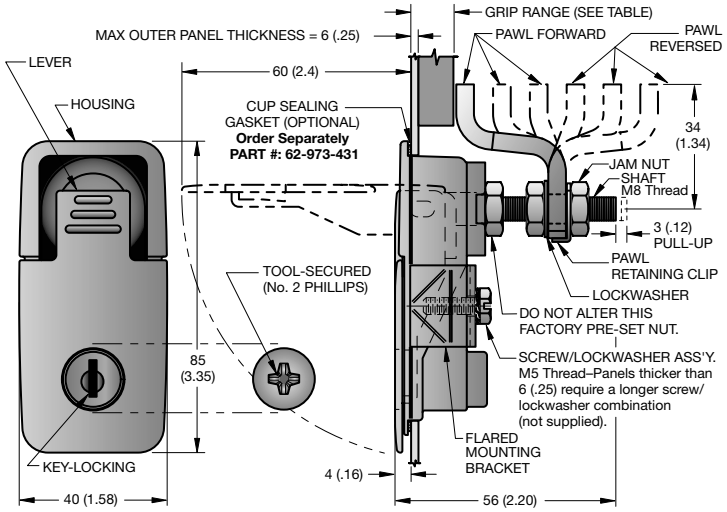
* Please call for assistance if you are trying to apply this product with a small grip range.

LIFT AND TURN® SERIES
FLUSH STYLE, MEDIUM SIZE

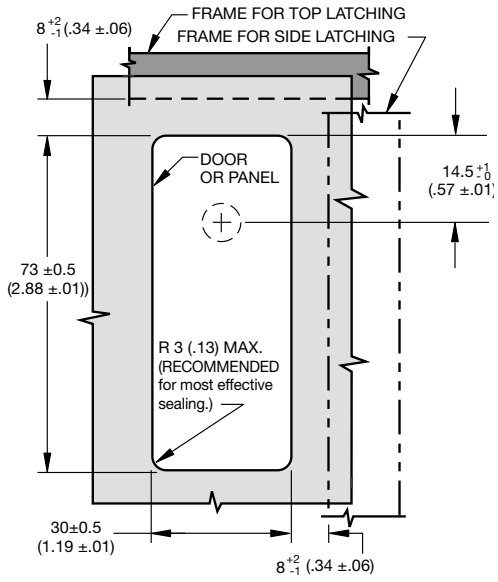
- **Hand, tool or key actuation.**
- **Sealing gasket for NEMA 4 applications.**
- **All versions use same panel preparation.**

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

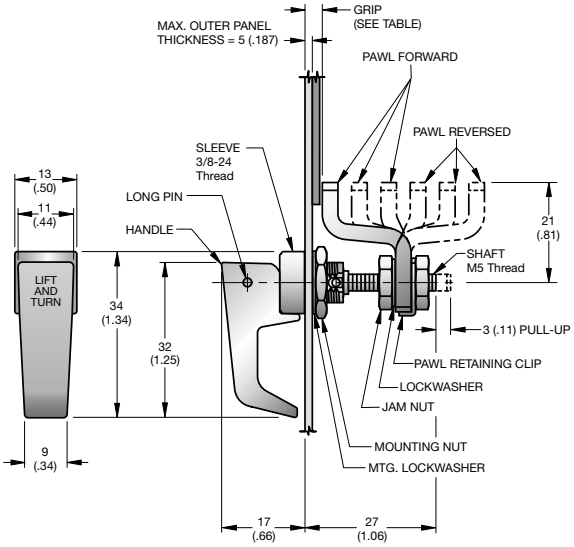
- **Easy to grab handle style.**
- **Simple lift and turn operation.**

LIFT AND TURN® SERIES HANDLE STYLE

NSF

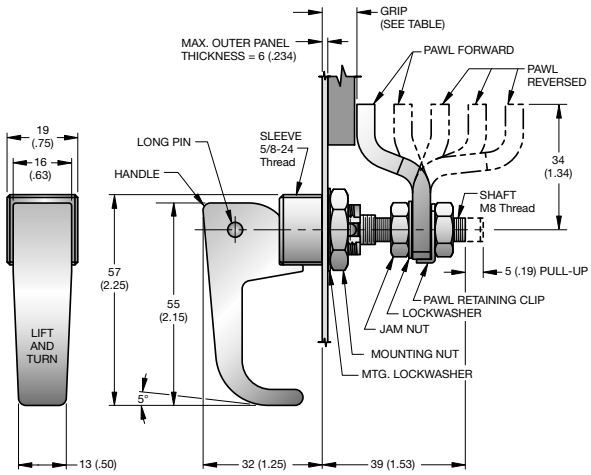
MINIATURE SIZE





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



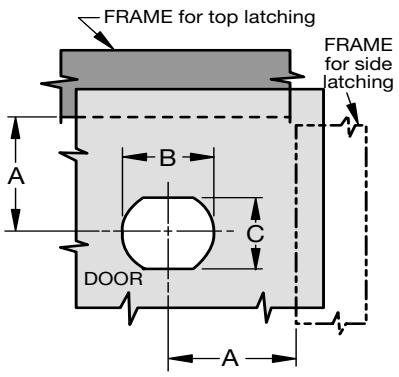
GRIP		PART NUMBER			
MIN.	MAX.	Polished Chrome	Brushed Chrome	Natural with Chemical Protective Film	Black Powder Coated
2 (.08)	12 (.47)	**62-10-21**	**62-10-22**	**62-10-23**	**62-10-25**
12 (.47)	22 (.87)	**62-10-31**	**62-10-32**	**62-10-33**	**62-10-35**
22 (.87)	32 (1.25)	**62-10-31**	**62-10-32**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



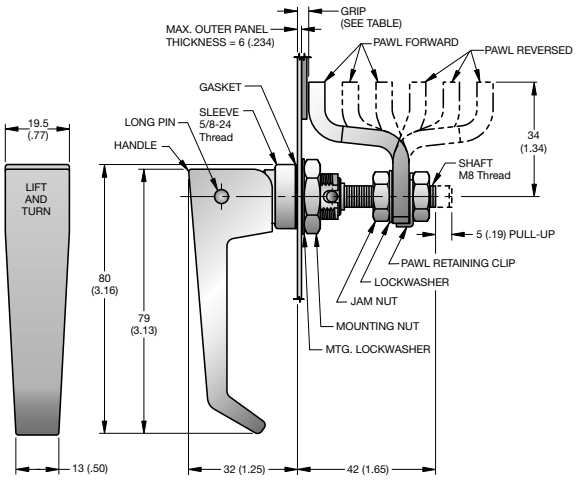
DIMENSIONS	SERIES	
	MINI	SMALL
A	16 $^{+2}_{-1}$ (.63 ± .06)	23 $^{+2}_{-1}$ (.93 ±.06) PAWL FORWARD
		28 $^{+2}_{-1}$ (1.10 ±.06) PAWL REVERSED
B	Ø 9.5 $^{+0.1}_{-0.0}$ (.375 $^{+.004}_{-.000}$)	Ø 16.3 $^{+0.1}_{-0.0}$ (.640 $^{+.005}_{-.000}$)
C	8.1 $^{+0.1}_{-0.0}$ (.320 $^{+.004}_{-.000}$)	13.7 $^{+0.1}_{-0.0}$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

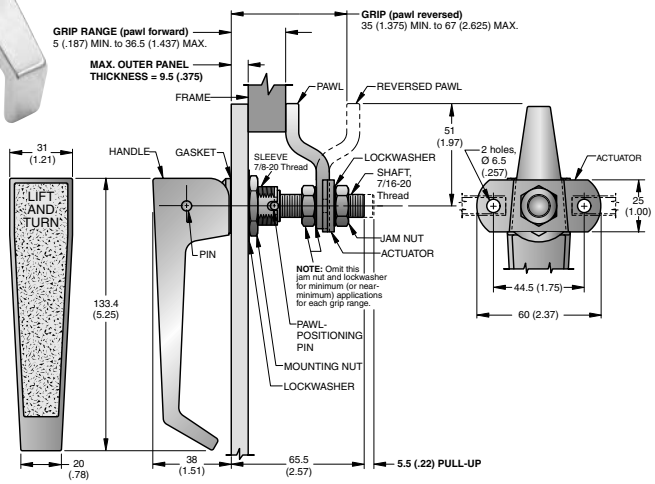
MEDIUM SIZE





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

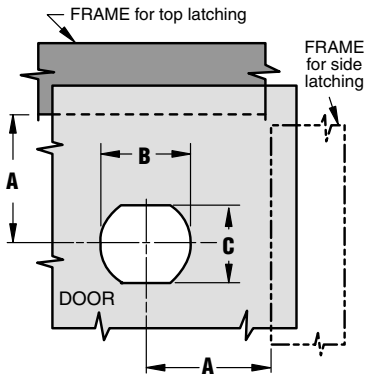


PART NUMBER	
Polished chrome	62-10-603-10
Brushed chrome	62-10-603-20

MULTI-POINT LATCHING
CALL FOR ASSISTANCE

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



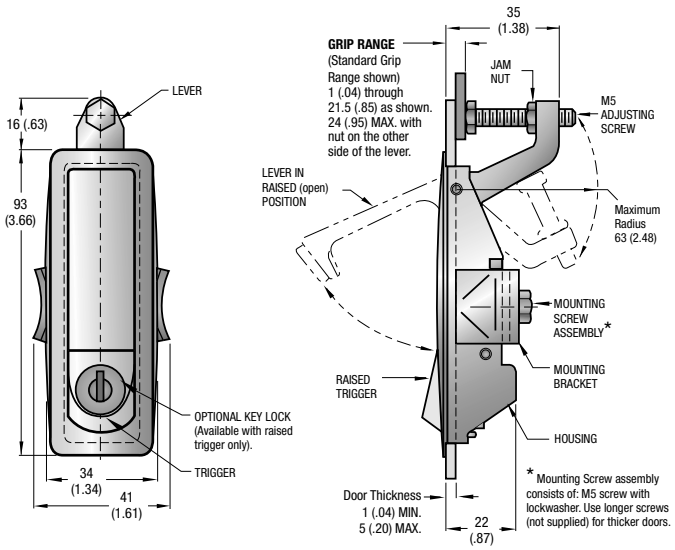
TRIGGER STYLE		PART NUMBERS			
		GRIP RANGE 1 (.04) TO 24 (.95)		GRIP RANGE 23 (.91) TO 46 (1.81)	
		Matte Black Coat	Textured Chrome Finish	Matte Black Coat	Textured Chrome Finish
Raised Trigger	Railway Standard	C2-99-217-125	----------	C2-99-217-145	----------
	No. 2 Phillips	C2-32-215	C2-32-101	C2-33-105	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



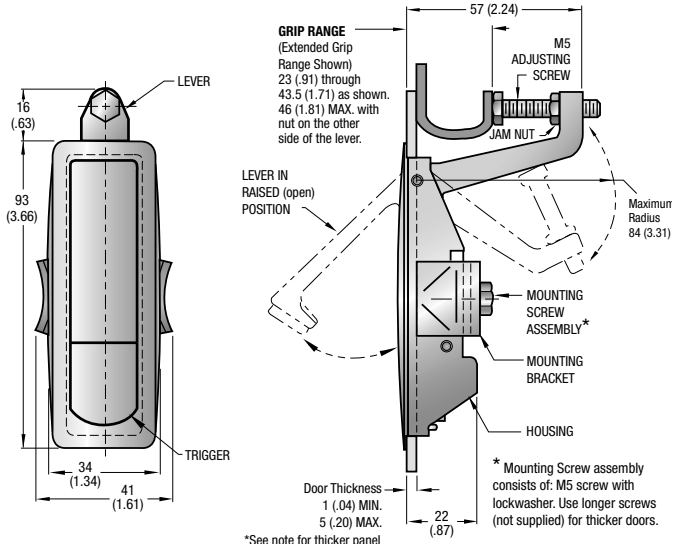
RAISED TRIGGER

(Shown with lock and standard grip range)

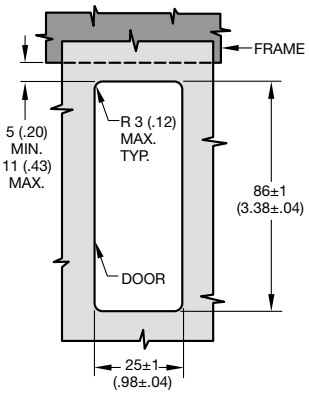


FLUSH TRIGGER

(Shown with extended grip range)



PANEL PREPARATION



clancey DESIGN DISTRIBUTOR

Accessories:

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



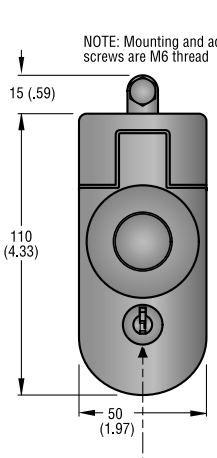
SEALED LEVER LATCH

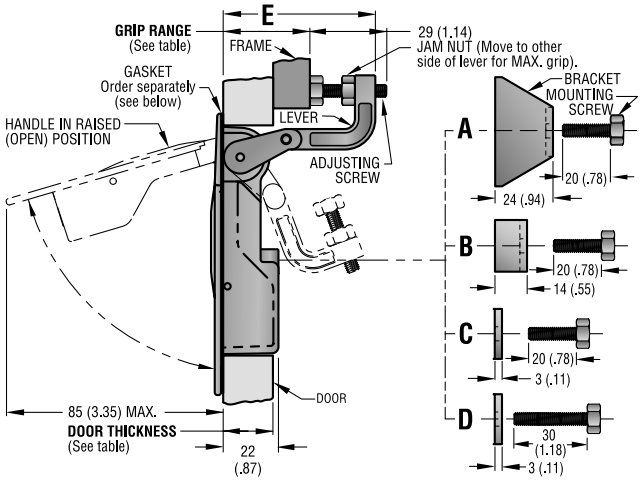
- Can be sealed to meet NEMA 4 standards.
- Low profile when latched.
- Non-locking, and 3 restricted access styles.
- Easy installation and adjustment.
- Latch and handle in one.

NEMA 4

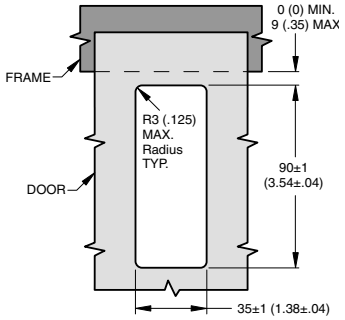
STAINLESS HARDWARE

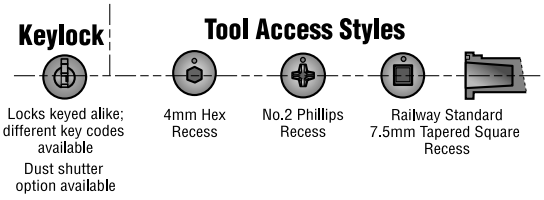






PANEL PREPARATION





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)

clancey DESIGN DISTRIBUTOR

Accessories:

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



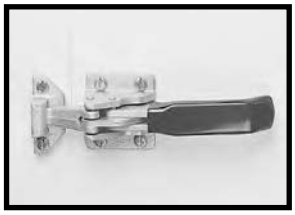


OVER-CENTER LEVER LATCHES

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

(non-locking) only



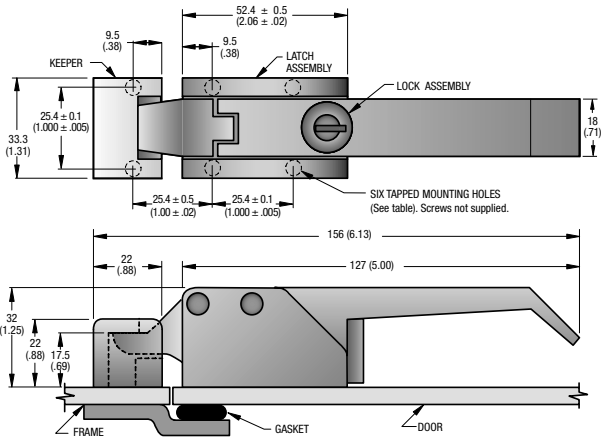


FINISH	STYLE	PART NUMBER tapped mounting hole size	
		# 10-32 UNC x 0.38" deep	Metric M5 x 0.8 x 9.5mm deep
Satin silver coat	Standard	A7-10-301-75	A7-10-351-75
	with lock	A7-10-302-75	A7-10-352-75
black coat	Standard	A7-10-301-20	A7-10-351-20
	with lock	A7-10-302-20	A7-10-352-20
Chrome plated	Standard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

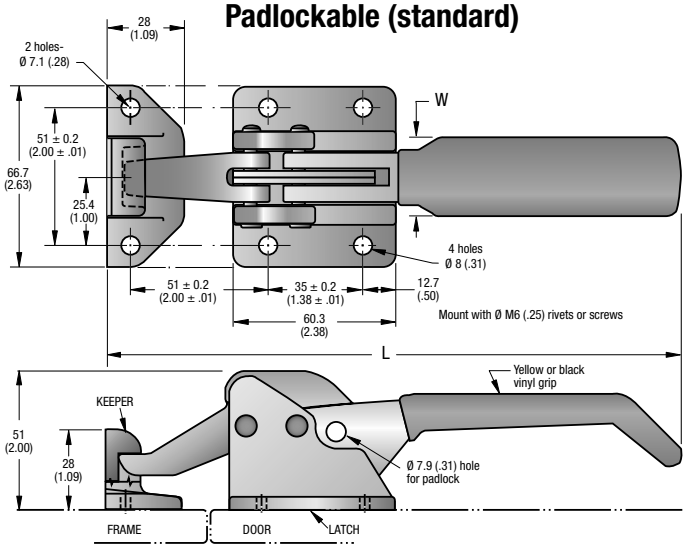
STYLE	PART NUMBER	L	W
With plain handle	A2-10-501-10	211 (8.3)	25.4 (1.00)
With yellow vinyl handle grip	A2-10-501-22	214 (8.44)	30.2 (1.19)
With black vinyl handle grip	A2-10-501-21	214 (8.44)	30.2 (1.19)
Additional shims*	A2-54-501-11		

*One shim provided per latch assembly.

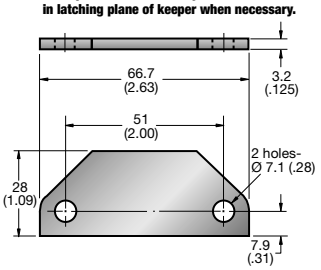
ADDITIONAL FEATURE: Keylockable (optional)



ADDITIONAL FEATURE: Padlockable (standard)



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



For detailed material specifications and product strength guidelines.

www.clancey.com

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	——

clancey DESIGN DISTRIBUTOR

"RIGHT SIZE" INVENTORY PROGRAM

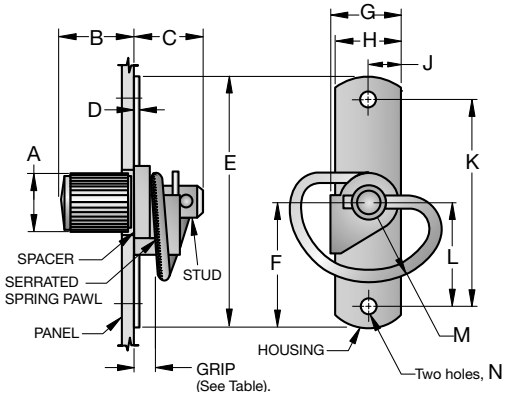
- Increases inventory turns
- Standardizes shipments
- Minimizes freight
- Custom to your company's needs
- Services multiple locations and subcontractors

For panel preparation instructions, please turn the page.

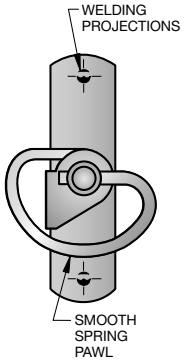
SPRING LATCH SERIES

STAINLESS STEEL AVAILABLE

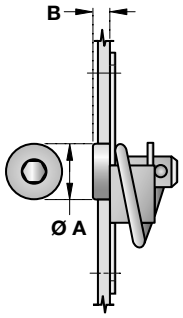
KNURLED KNOB STYLE / RIVET TYPE



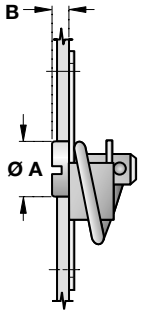
WELD TYPE



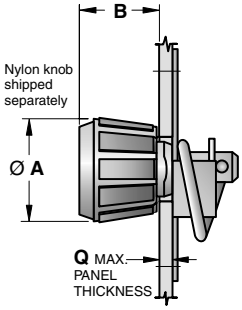
HEX SOCKET HEAD STYLE



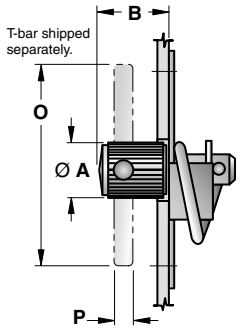
SLOTTED HEAD STYLE



BLACK KNOB STYLE

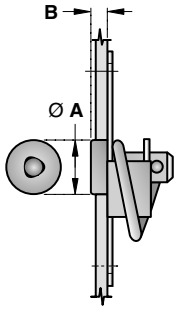


T-BAR HEAD STYLE

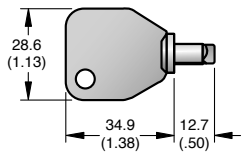


TOOLHEAD® RECESS STYLE

Toolhead® is a registered trademark of Southco.



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



DIMENSION TABLE

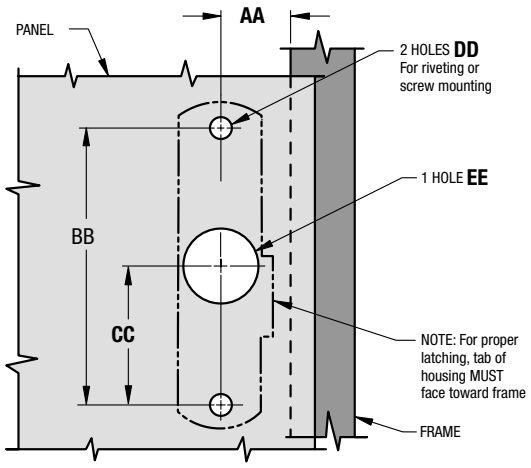
SIZE	HEAD STYLE	DIMENSIONS															
		Ø A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q MAX. Panel Thickness
Mini	Knurled	6.6 (.26)	11.9 (.47)	7.5 (.30)	0.8 (.031)	27 (1.06)	13.5 (.53)	8.5 (.33)	7.1 (.28)	3.6 (.14)	22.2 (.875)	11.1 (.438)	8.6 (.34)	2.7 (.106)	—	—	—
	Slotted	6.4 (.25)	1.6 (.06)														
	Black 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)	

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

SPRING LATCH SERIES, PANEL PREPARATION

PANEL PREPARATION (SEE TABLE)



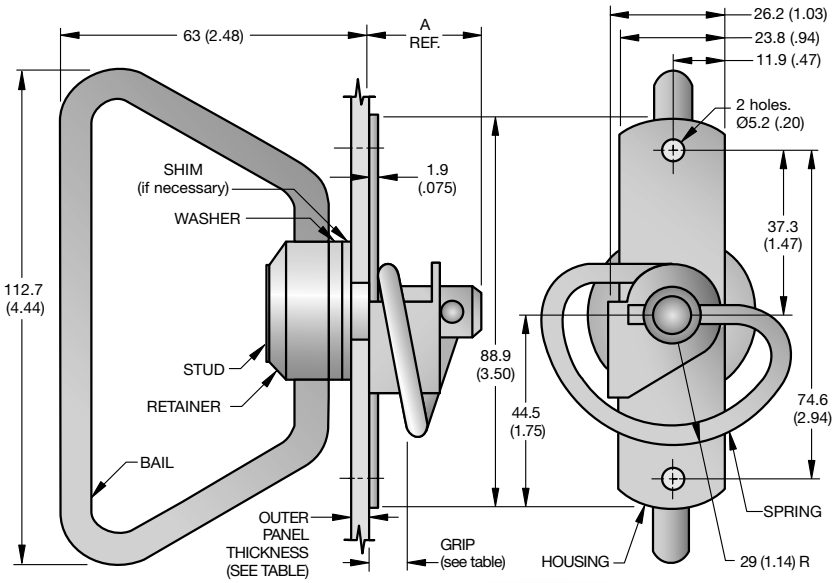
SIZE	HEAD STYLE	DIMENSIONS				
		AA	BB ±0.1 (±.005)	CC ±0.1 (±.005)	Ø DD	Ø EE
Mini	All Styles	5.6 (.22)	22.2 (.875)	11.1 (.438)	2.7 (.106)	7.2 (.283)
Small	All Styles	8.7 (.34)	33.3 (1.312)	16.7 (.656)	2.7 (.106)	10.5 (.406)
Medium	Knurled	12.7 (.50)	49.2 (1.938)	24.6 (.969)	3.5 (.136)	14.5 (.563)
	Slotted					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

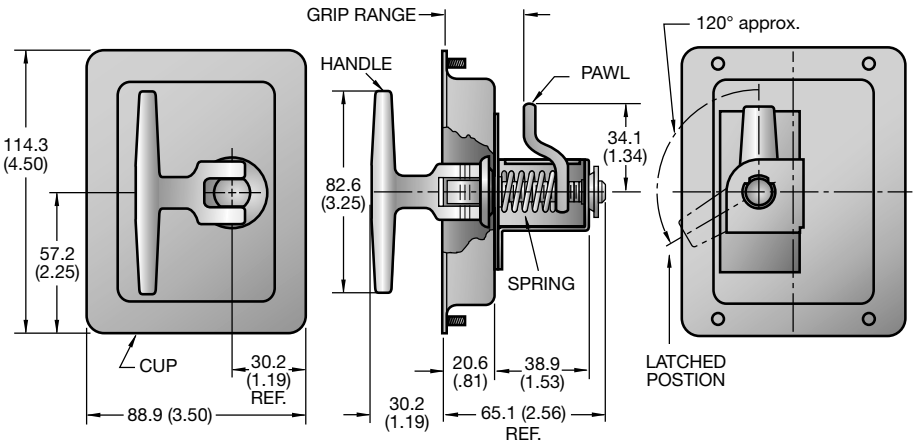


For detailed material specifications and product strength guidelines.

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





STAINLESS STEEL AVAILABLE

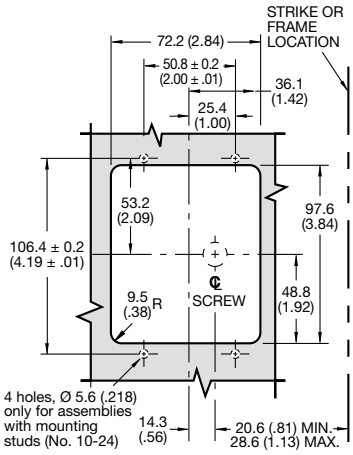
NSF

For detailed material specifications and product strength guidelines.

www.clancey.com

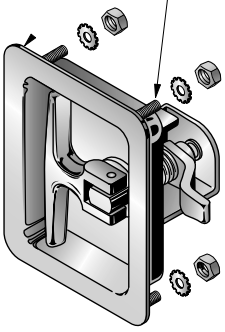
GRIP RANGE		PART NUMBERS	
MIN.	MAX.	CUP and HOUSING: Polished stainless steel. HANDLE: Die cast zinc, chrome plated.	CUP and HOUSING: Steel, DACROTIZED. HANDLE: Die cast zinc, DACROTIZED.
19.1 (.75)	37.3 (1.47)	**24-20-101-35**	**24-20-101-10**
31.8 (1.25)	50.2 (1.98)	**24-20-102-35**	**24-20-102-10**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



clancey DESIGN DISTRIBUTOR

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

CAD POWERED

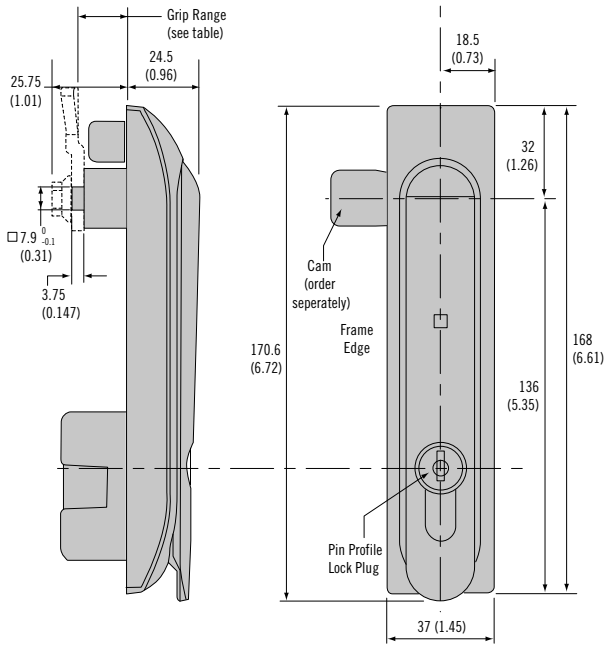
southco® AUTHORIZED DISTRIBUTOR

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

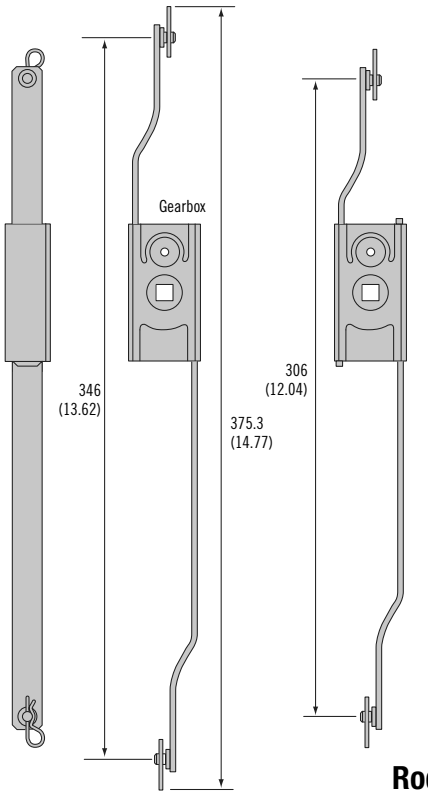
GRIP	PART NO. (LENGTH = 38MM)	PART NO. (LENGTH = 45MM)
15.5	E5-6710	E5-6110
17.5	E5-6711	E5-6111
19.5	E5-6712	E5-6112
21.5	E5-6713	E5-6113
23.5	E5-6714	E5-6114
OTHER	Please contact Clancey	

- **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.**

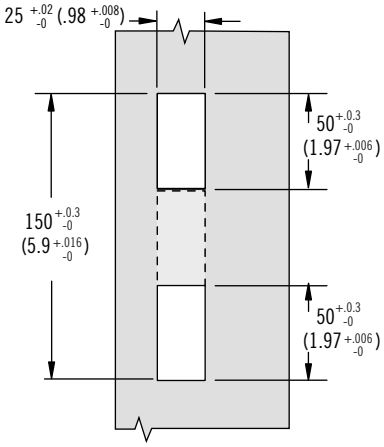
H3 LINEAR ACTUATORS



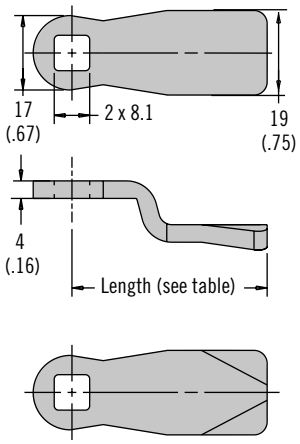
Linear Actuator
(Right Hand Mounting shown)



Panel Preparation

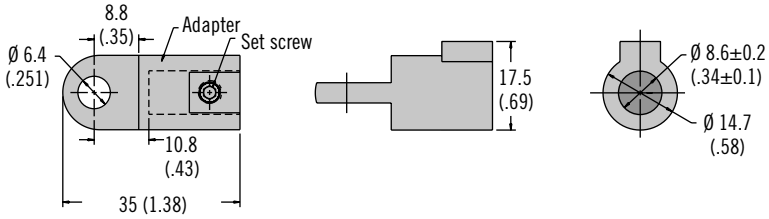


Cam



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)

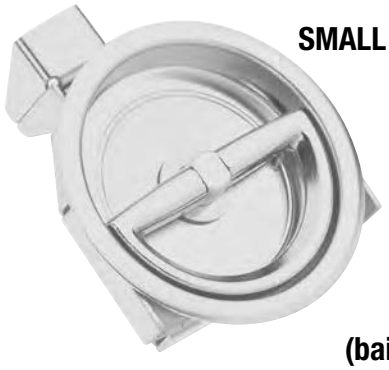
FLUSH CUP SERIES

- **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

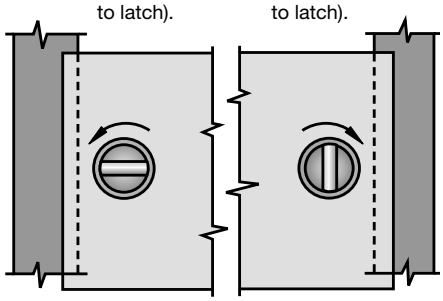


SMALL



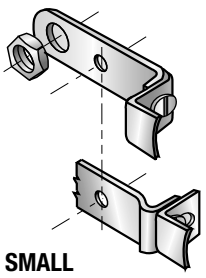
MID-SIZE

(bail handle shown)

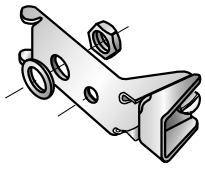


- Mounted on either TYPE A or B doors. Choose horizontal or vertical closed position of handle.

PAWL ASSEMBLIES

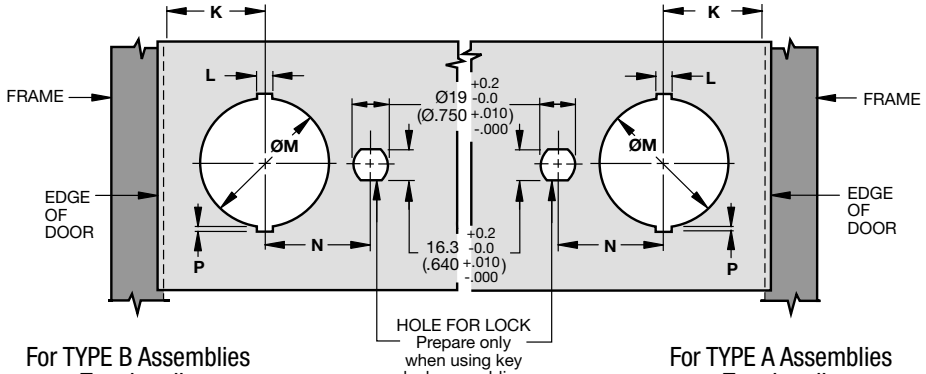


SMALL



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

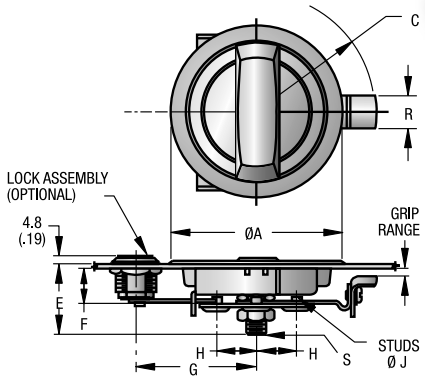
SIZE	K	L (TYP.)	Ø M	N	P (TYP.)
SMALL	33 ± 3.2 (1.31 ± .13)	4.8 (.187)	42.9 ± .40 (1.687 ± .015)	46 ± 0.4 (1.812 ± .015)	1.6 (.062)
MID-SIZED	50.8 (2.00 ± .13)	6.4 ± 0.1 (.250 ± .005)	71.4 ± 0.4 (2.812 ± 0.15)	57.2 ± 0.4 (2.250 ± .015)	2.5 ± 0.2 (.10 ± .01)

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**

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

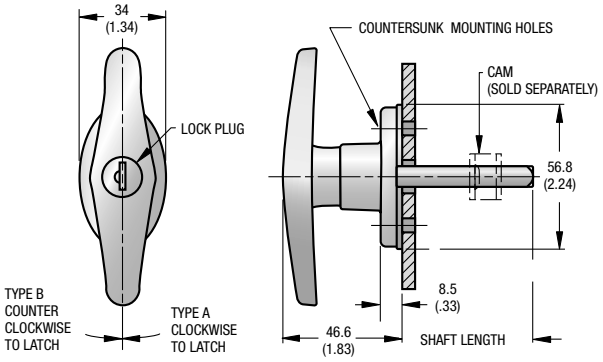
southco® AUTHORIZED DISTRIBUTOR

T-HANDLE LATCH STANDARD

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

MULTI-POINT LATCHING



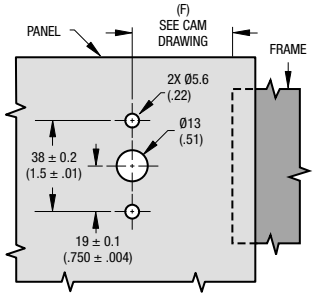


NOTE: Order cam separately on page 39.

	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



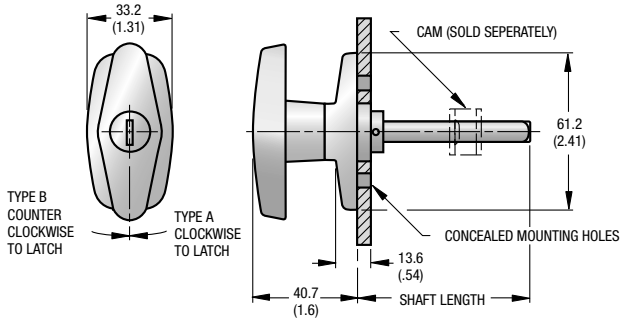
Install latch from front of panel with M5 or No. 10 screws.

T-HANDLE LATCH COMPACT

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

MULTI-POINT LATCHING



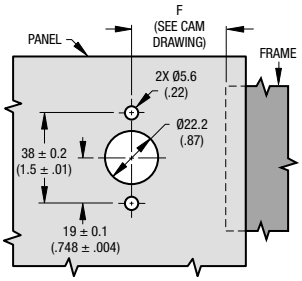


NOTE: Order cam separately on page 39.

	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

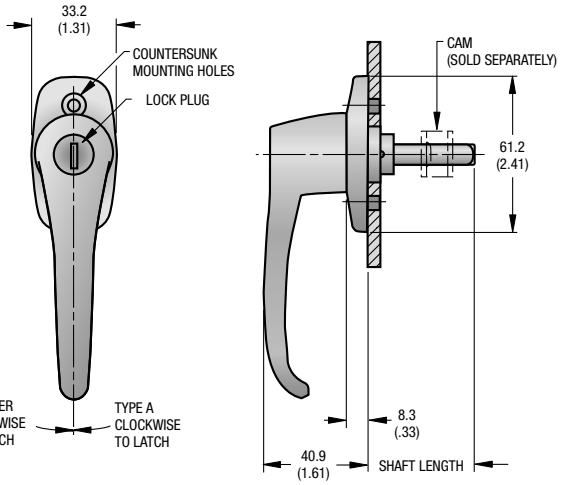


Install with 8-32 screws from the back of the panel.

clancey DESIGN DISTRIBUTOR

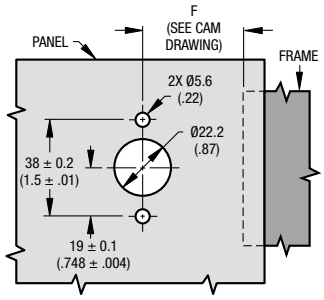
- **Outstanding pricing.**
- **Variety of shaft lengths & cams.**
- **Left or right hand actuation.**
- **Black or chrome finish.**

L-HANDLE LATCH STANDARD





PANEL PREPARATION



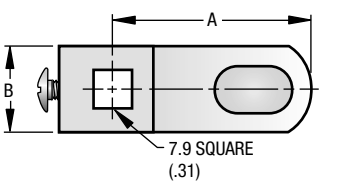
Install latch from front of panel with M5 or No. 10 screws.

NOTE: Order cam separately on page 39.

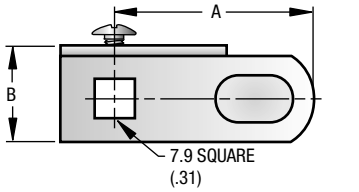
	SHAFT LENGTH	LOCKING PART NUMBER*		NON-LOCKING PART NUMBER	
		TYPE A	TYPE B	TYPE A	TYPE B
CHROME	38.1 (1.50)	92-70-113-10	92-70-213-10	92-70-103-10	92-70-203-10
	50.8 (2.00)	92-70-114-10	92-70-214-10	92-70-104-10	92-70-204-10
	63.5 (2.50)	92-70-115-10	92-70-215-10	92-70-105-10	92-70-205-10
BLACK	38.1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

southco® AUTHORIZED DISTRIBUTOR

T- AND L-HANDLE STYLE

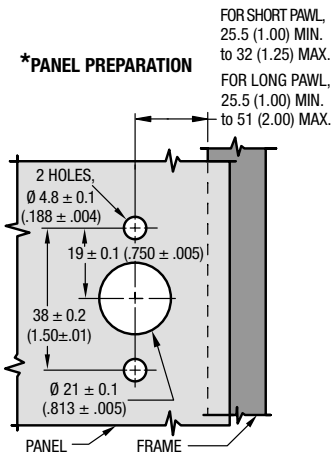
- **Detents in full open or closed position.**
- **Can be used for multi-point latching.**
- **Ergonomic, comfortable feel.**
- **Non-locking versions are NSF recognized.**

MULTI-POINT LATCHING

NSF

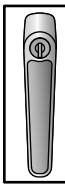
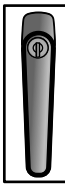


PANEL PREPARATION

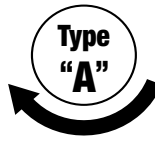


For detailed material specifications plus product installation instructions.

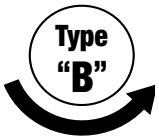
www.clancey.com

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.



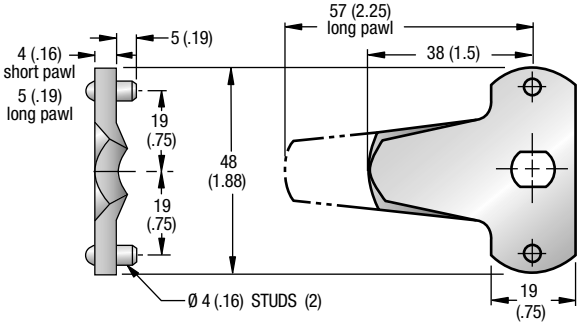
Turn clockwise to latch.



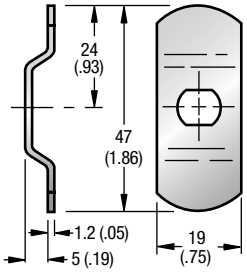
Turn counterclockwise to latch.

* 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

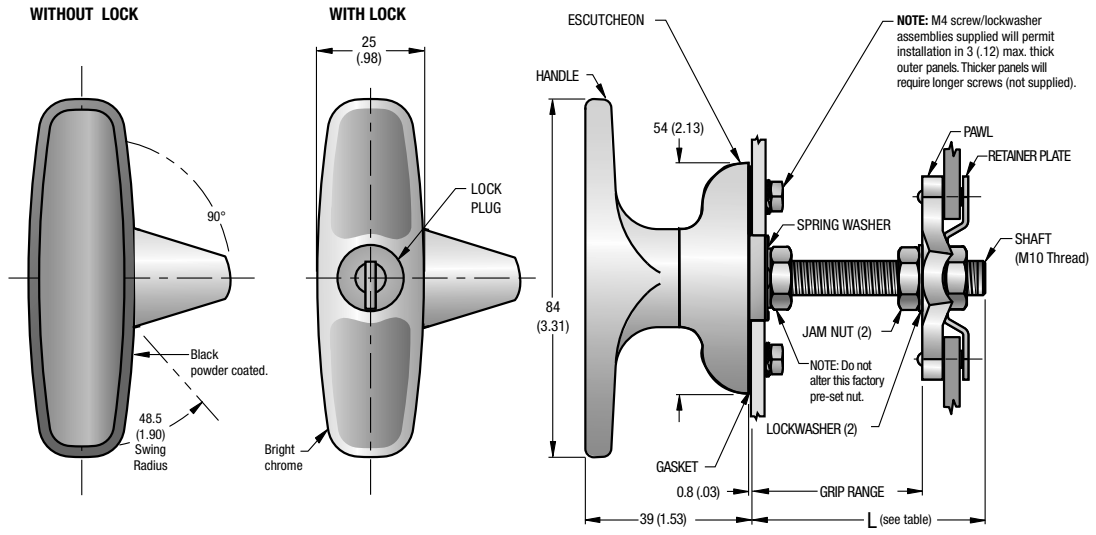


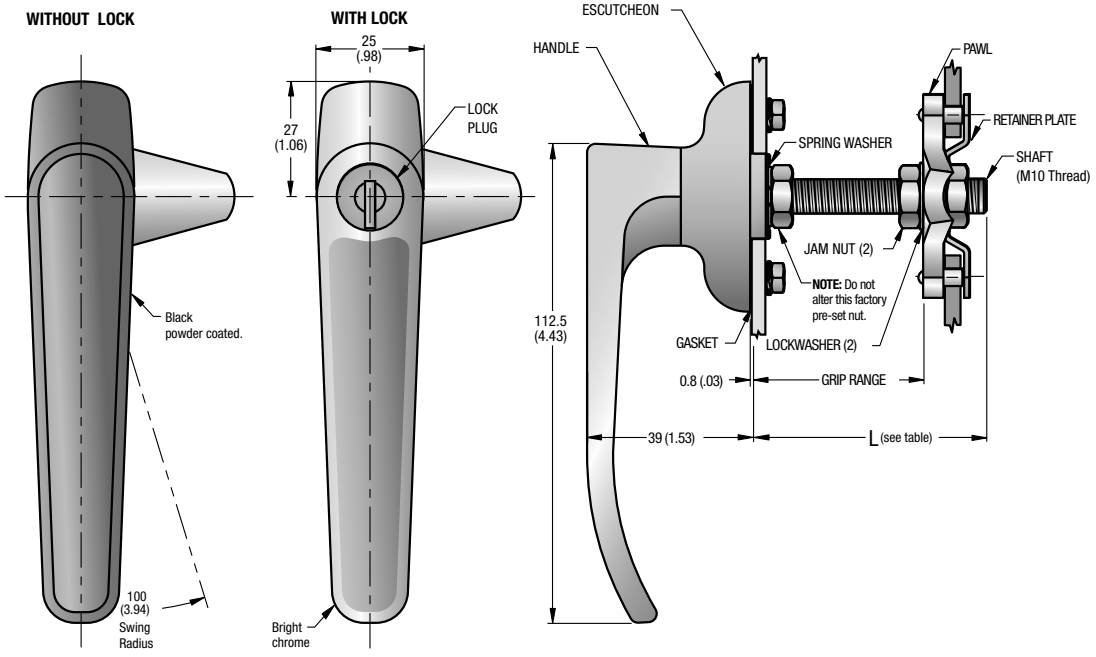
- **Long pawl available.**
- **Key locking version available.**
- **Smooth surfaces free of sharp edges.**

T- AND L-HANDLE STYLE

MULTI-POINT LATCHING

NSF





CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

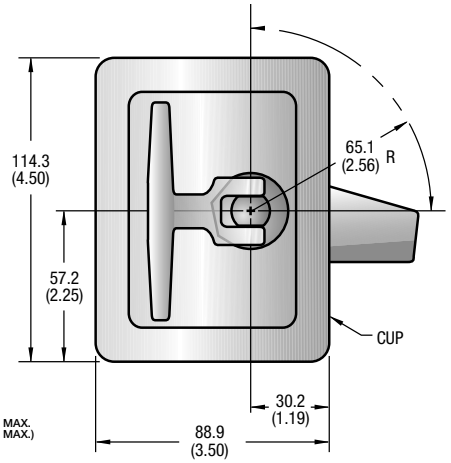
FLUSH T-HANDLE SERIES, HEAVY DUTY STYLE

- **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

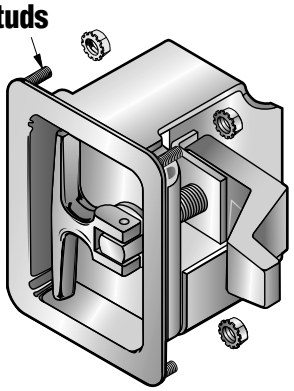




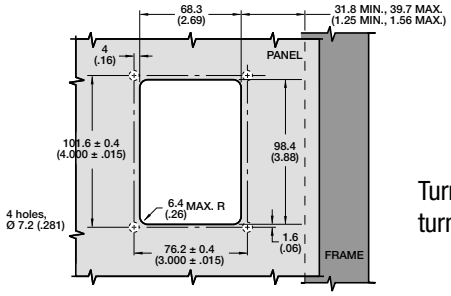
No. 24 Heavy Duty Flush Latches with mounting studs

(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.

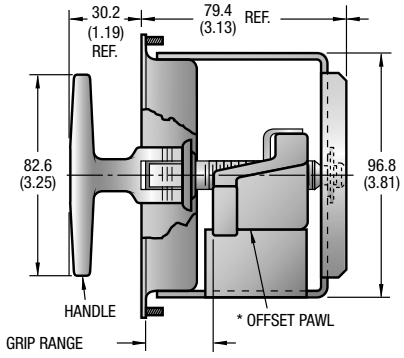


PANEL PREPARATION



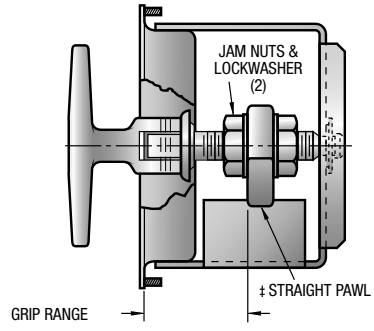
COMPRESSION VERSION ADJUSTABLE-GRIP

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

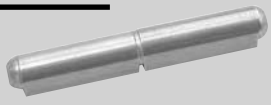
ADJUSTABLE-GRIP COMPRESSION VERSION

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

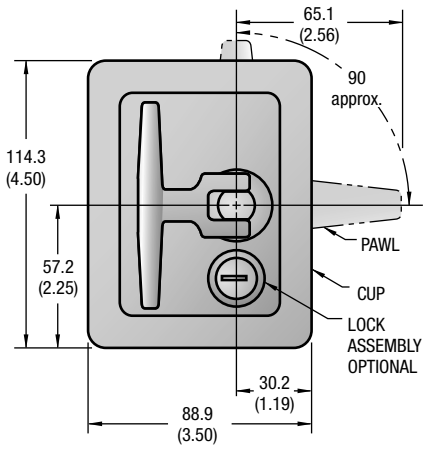


STAINLESS STEEL AVAILABLE

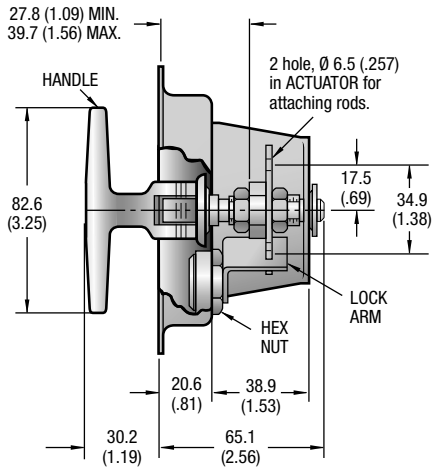
MULTI-POINT LATCHING

NSF

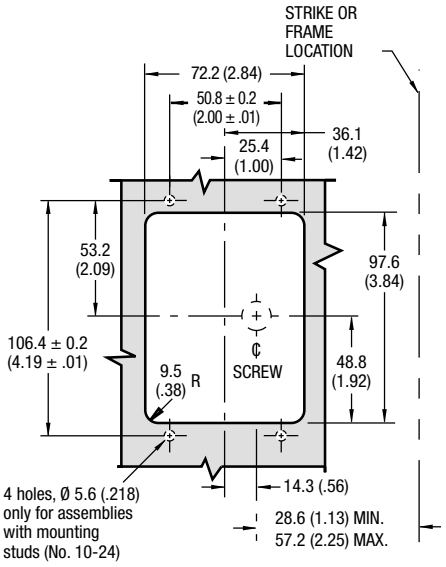
TYPE A Assembly (illustrated)



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

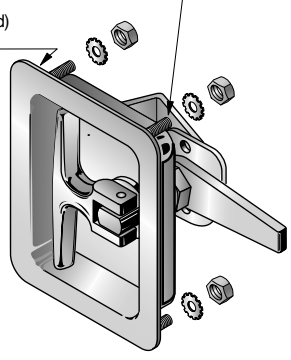
NSF Non-locking only

*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

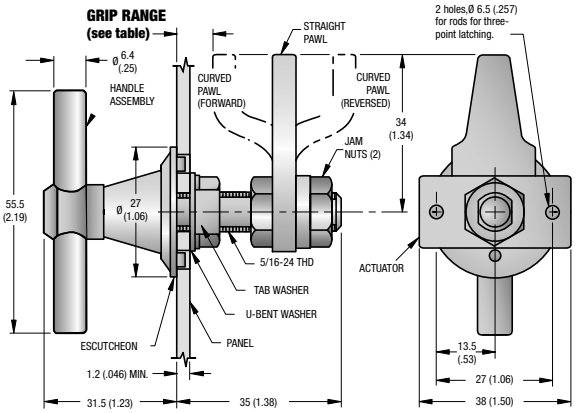
- **Restricted 90˚ rotation.**
- **Can be used for multi-point latching.**
- **3 sizes.**

MULTI-POINT LATCHING



SMALL SIZE

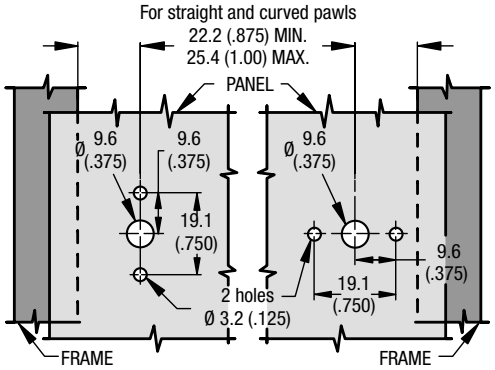
GRIP RANGE		PART NUMBERS	
		Handle Assembly Finish	
MIN.	MAX.	Chemical Protective Film	Chrome Palted
0	12.7 (.50)	**68-50-301-10**	**68-50-301-20**
12.7 (.50)	25.4 (1.00)	**68-50-302-10**	**68-50-302-20**
25.4 (1.00)	38 (1.50)	**68-50-301-10**	**68-50-301-20**



PANEL PREPARATION

Type "B" Operation
Turn handle counterclockwise to latch.

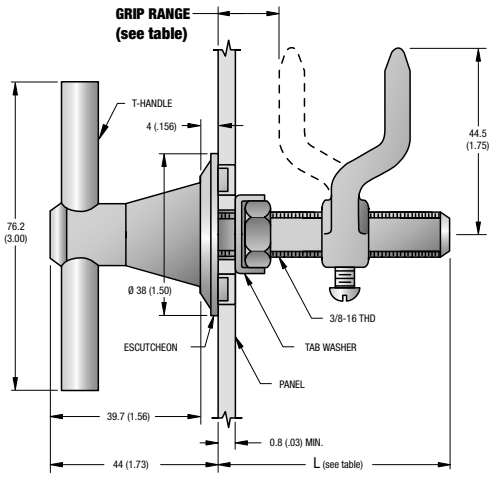
Type "A" Operation
Turn handle clockwise to latch.



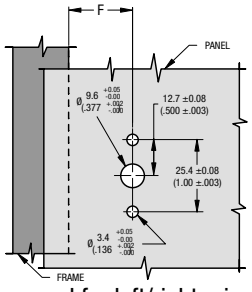
MEDIUM SIZE

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.



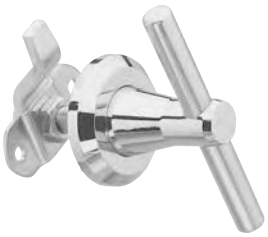
PANEL PREPARATION

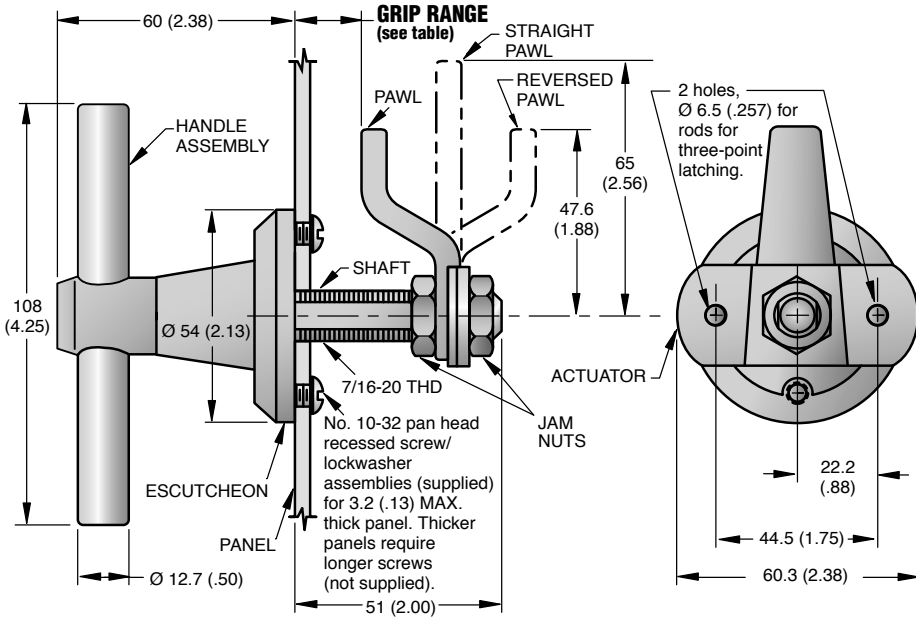


Reverse pawl for left/right orientation

MULTI-POINT LATCHING CALL FOR ASSISTANCE

T-HANDLE SERIES, LARGE SIZE

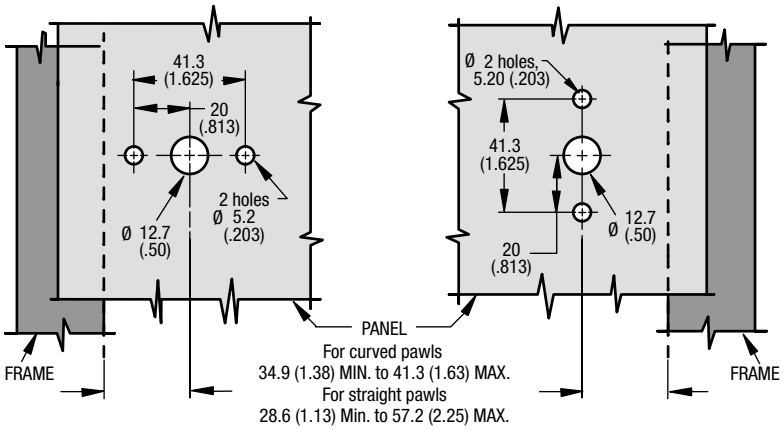




PANEL PREPARATION

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

CAD POWERED

SOUTHCO SOLUTIONS ARE "CAD POWERED" AT WWW.CLANCEY.COM

Excellent 2D resources for sourcing prints and documentation, plus the latest in 3D solid models are just a few clicks away.

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

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

BAIL-HANDLE SERIES

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

MULTI-POINT LATCHING

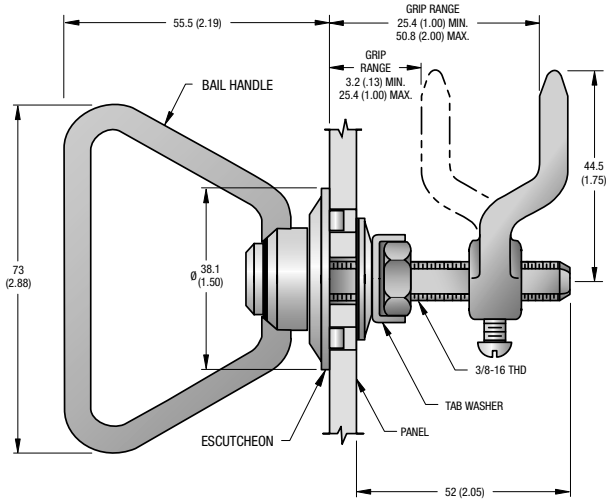
MEDIUM SIZE

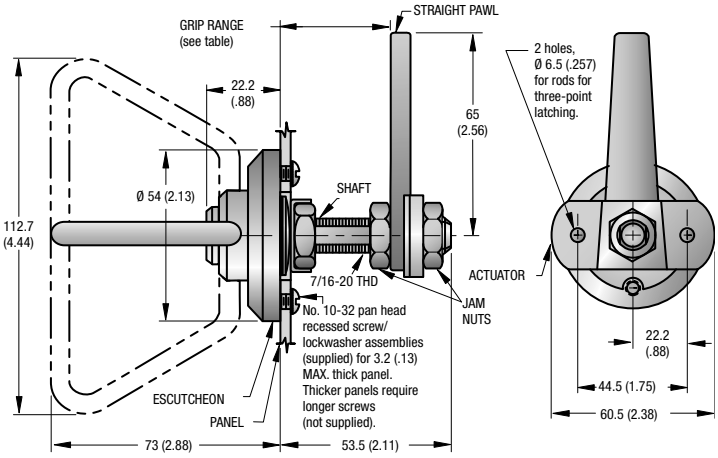
PART NUMBERS	
Handle Assembly finish	
Zinc Plate Bright Chromate	Chrome Plated
68-20-101-10	68-20-101-20



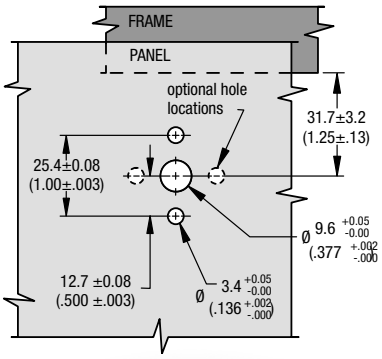
LARGE SIZE

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





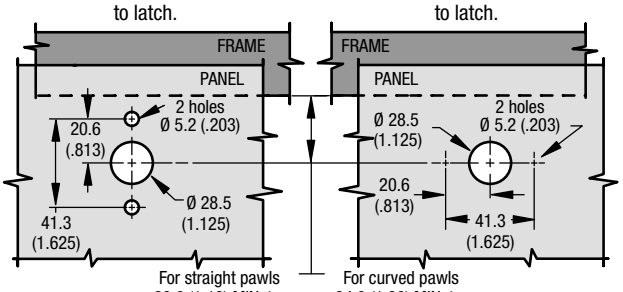
PANEL PREPARATION



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.

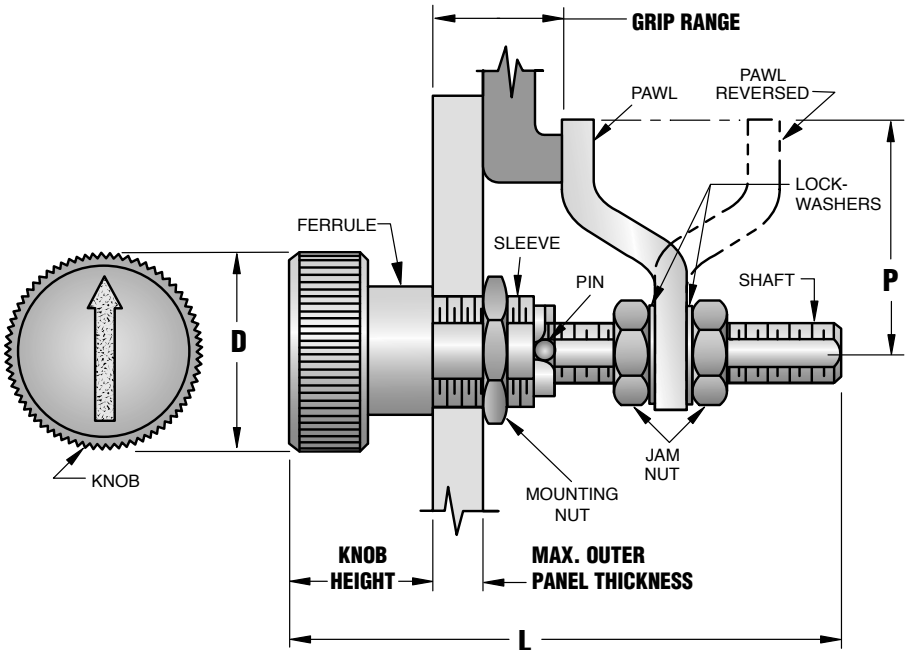
For detailed material specifications plus product installation instructions.

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



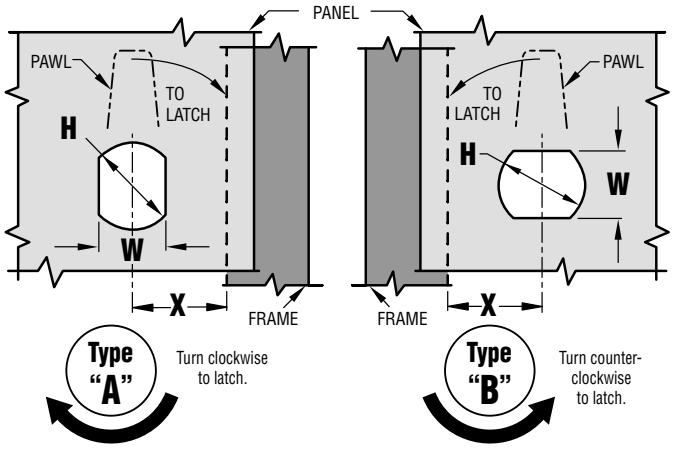


For detailed material specifications plus product installation instructions.

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.

NEW ITEMS

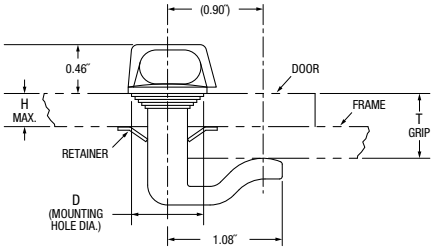
CAD POWERED

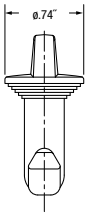
southco® AUTHORIZED DISTRIBUTOR

KNOB STYLE CAM LATCH

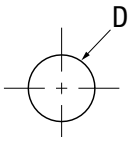


- **Outstanding value- low installed cost.**
- **Grip adjusts by changing mounting hole diameter.**
- **Can be used in thick panels.**





PANEL PREPARATION

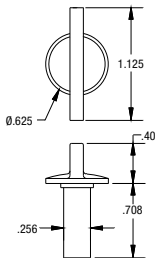
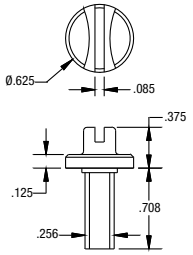
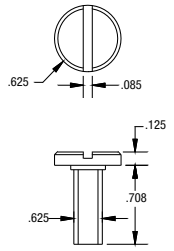


Grip Range		Maximum Outer Panel Thickness "H"	Part Number	Panel Preparation Diameter "D"
Min.	Max.			
.050"	.090"	.050"	HP-L3-1-1	.490"
.090"	.125"	.065"		.555"
.125"	.160"	.095"		.615"
.160"	.200"	.125"		.680"
.200"	.240"	.125"	HP-L3-2-1	.430"
.230"	.270"	.188"		.490"
.260"	.300"	.218"		.555"
.290"	.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



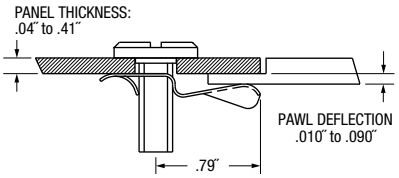
- **3 head styles.**
- **Low installed cost.**
- **Basic quarter turn operation.**

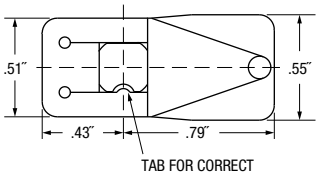
PART NUMBER		
LP-137-1W	LP-137-1K	LP-137-1
		
WING HEAD	SLOTTED KNOB	SLOTTED HEAD

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.

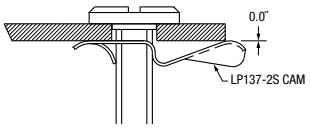




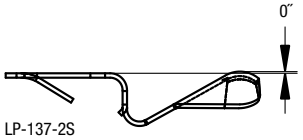
TAB FOR CORRECT ORIENTATION ON KNOB

CAM



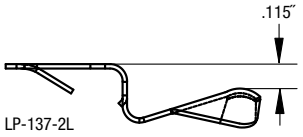


OFFSET	CAM P/N
0.00"	LP-137-25
.115"	LP-137-2L



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.**

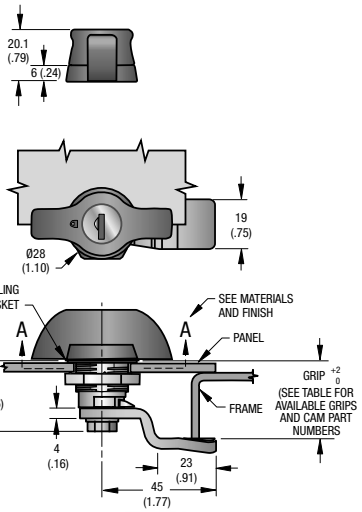
ORDERING INSTRUCTIONS:

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.

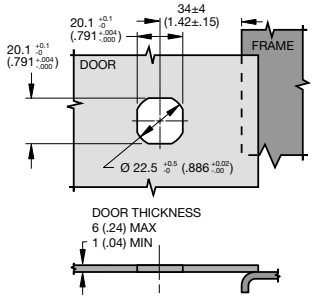




NEMA 4

MULTI-POINT LATCHING

PANEL PREPARATION



For detailed material specifications plus product installation instructions.

www.clancey.com

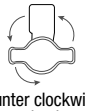
PADLOCKING WINGHEAD CAM LATCH

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

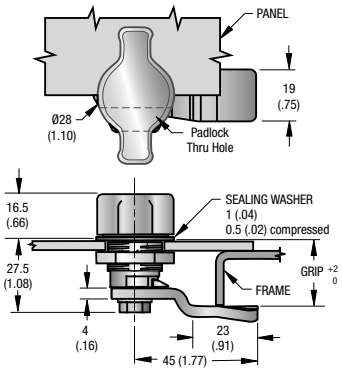
ORDERING INSTRUCTIONS:

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)

EXPANDED RANGE

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

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



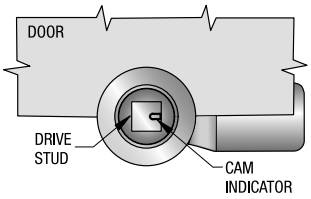
8mm square head style

Stainless steel

SPOTLIGHT FEATURES

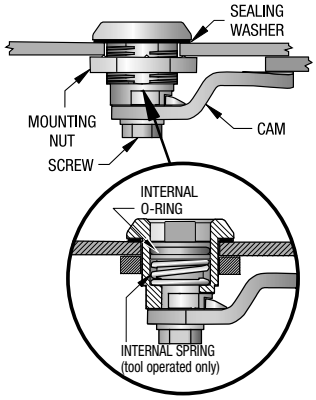
CAM INDICATOR

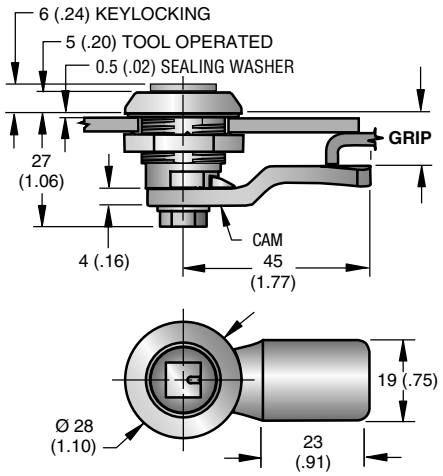
- **Visual guide to cam position.**



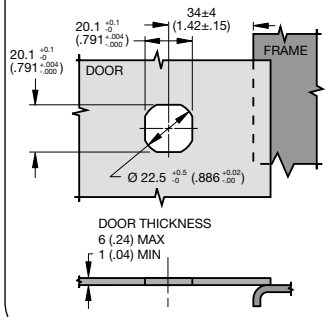
INTERNAL SPRING ACTION

- **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")

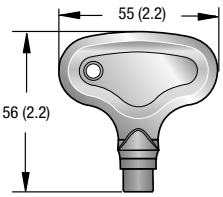


E5-77-102-31

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)

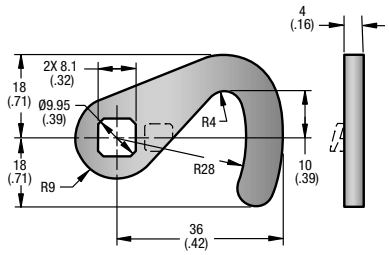
Cam Grip + 2mm (.08") - 0mm (0,00") (See Diagram, Page 50) / MATERIAL	4mm (.16")	6mm (.24")	8mm (.31")	10mm (.39")	12mm (.47")	14mm (.55")	16mm (.63")	18mm (.71")	20mm (.79")	22mm (.87")
Steel, Zinc Plate	E5-6003	E5-6004	E5-6005	E5-6006	E5-6007	E5-6008	E5-6009	E5-6010	E5-6011	E5-6012
304 Stainless Steel	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)



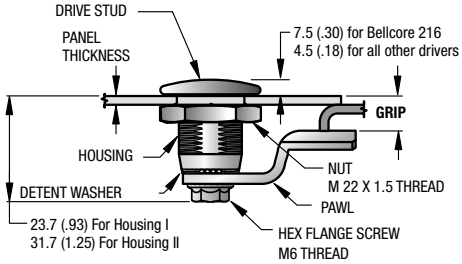
PART NUMBER	Rotation Action
E5-6200	No Stop Can be used in either rotation
E5-6210	Stop built for Clockwise rotation
E5-6220	Stop built for Counter-clockwise rotation

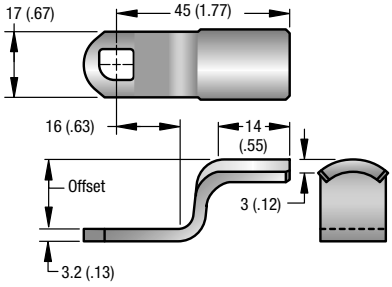
QUAD PANEL LATCH
DESIGNER SERIES

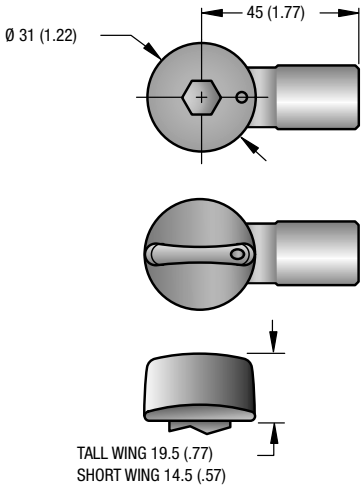
- **Sealed version can be used to meet NEMA 4 applications.**
- **Latched / unlatched indicator.**
- **Single hole installation.**
- **13 head styles.**
- **2 standard finishes.**



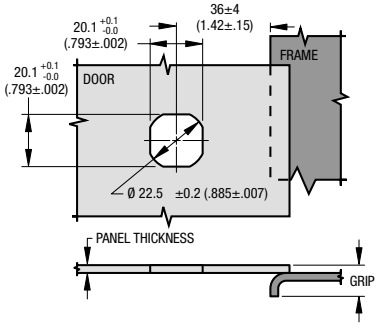






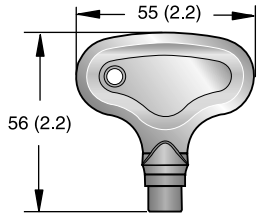


PANEL PREPARATION

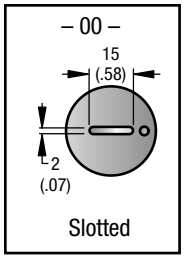


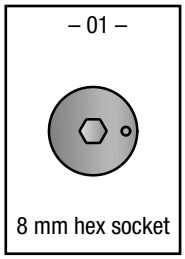
Key Chart (order separately)

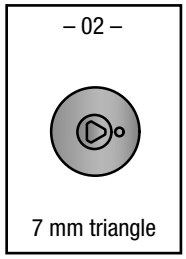
KEY PART NUMBER	HEAD STYLE
E3-3-1	7 mm TRIANGLE
E3-7-1	8 mm TRIANGLE
E3-4-1	7 mm SQUARE
E3-8-1	8 mm SQUARE
E3-2-1	3 mm DOUBLE BIT
E3-9-1	5 mm DOUBLE BIT
E3-10-1	8 mm SQUARE SOCKET
E3-12-1	BELLCORE 216
E3-11-1	BELLCORE ELECTRONICS

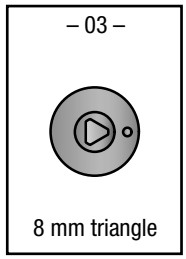


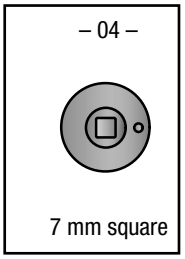
Available head styles: **Head style numbers for part number selection on page 79.**

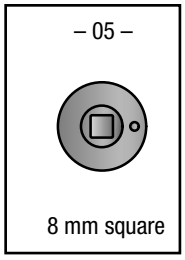


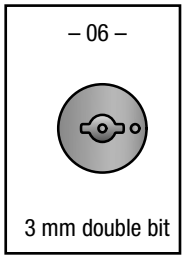


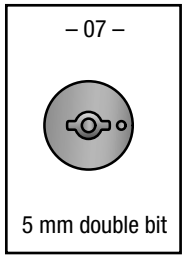


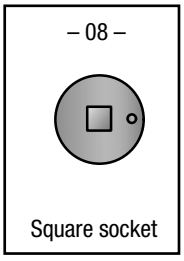


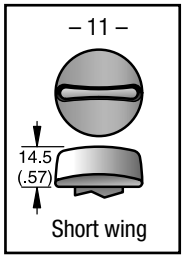


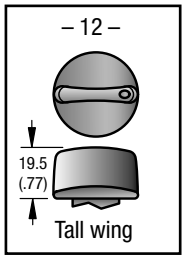


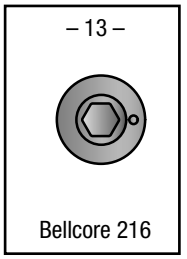


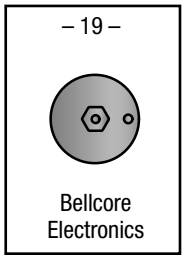












Note: **If the difference between the door thickness and the grip is less than 4 mm (.16"), the latch pawl must be removed for installation.**

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	=	

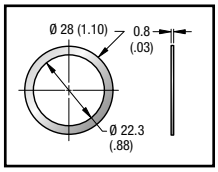
2. **Review door thickness. Enter part number chart based on door thickness. Place your grip in the grip range.**
3. **Determine your sealing option and select your finish.**
4. **Add the head style number from page 78 in place of -XX to compute your part number.**
5. **Order key from page 78 if head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

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

ADJUSTMENT FOR ACCESSORIES:

Add the adjustment number to the formula above.

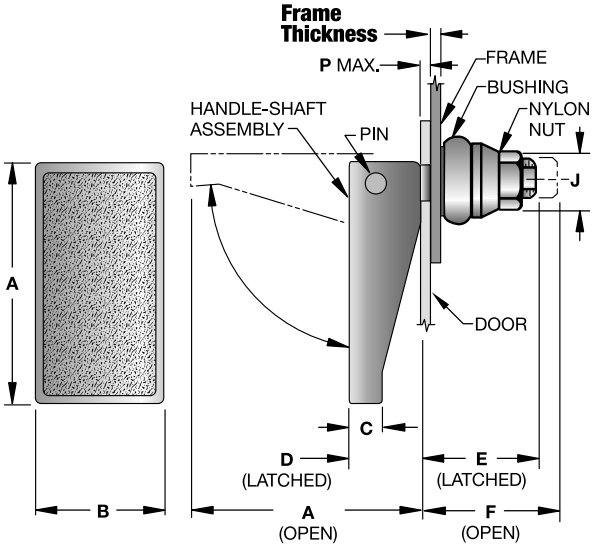
Accessories: (order separately) **Seal: (included with sealed assemblies)**

	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")**

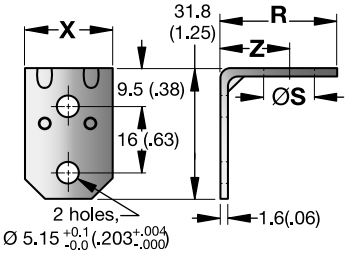
SWELL ACTION SERIES, HANDLE STYLE

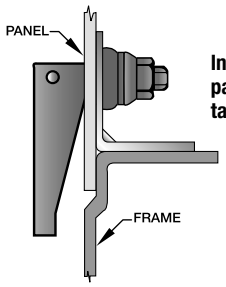
- **Accommodates misalignment between door and frame.**
- **Latches in any frame thickness, and blind applications.**





SIDE MOUNT BRACKET
(order separately)





Inner surface of panel MUST contact side mount.

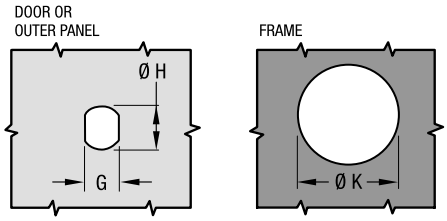
MATERIAL AND FINISH
1010 Steel, zinc plated with yellow chromate dip.

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

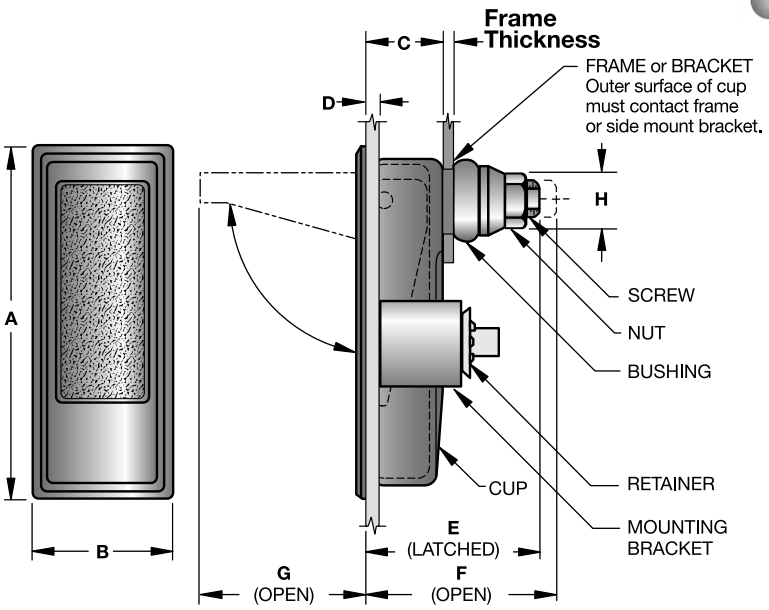
PANEL PREPARATION



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



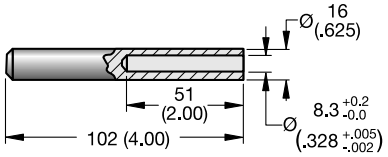


For detailed material specifications plus product installation instructions.

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



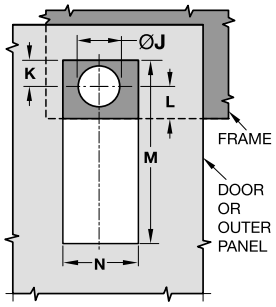
MATERIAL AND FINISH

1095 Steel, zinc plated.

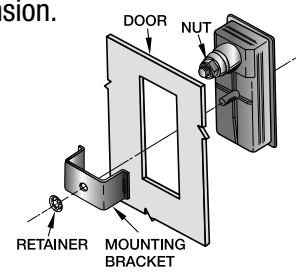
PART NUMBER
17-10019-11

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)				

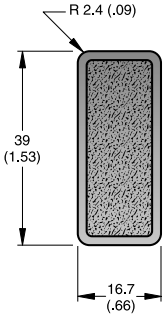
SWELL ACTION SERIES, BULLET NOSE

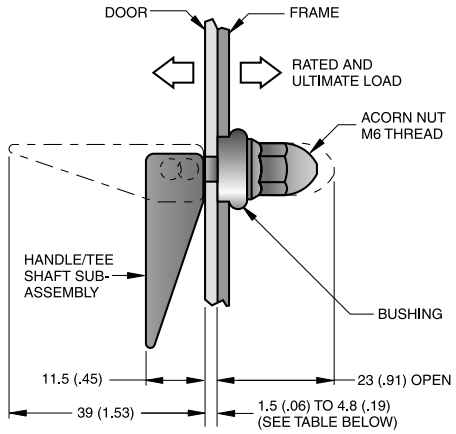
- Accommodates misalignment between door and frame.
- Latches in any frame thickness and blind applications.
- Dampens vibration.
- Latch and handle in one.

NON CORROSIVE

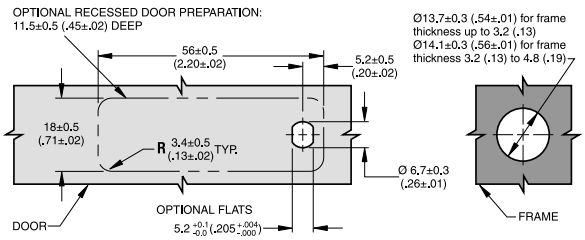


PART NUMBER
19-54-01





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

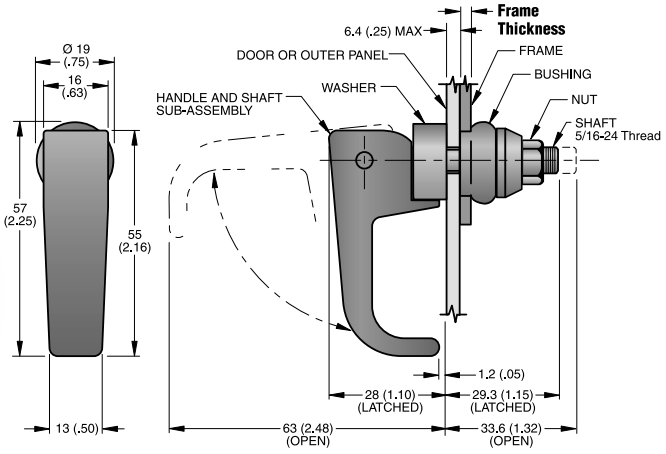
- Die-cast handle provides additional leverage for heavy duty applications.



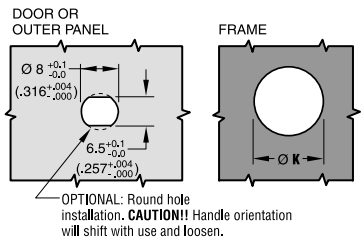
PART NUMBER
19-14-10

For detailed material specifications plus product installation instructions.

www.clancey.com



PANEL PREPARATION



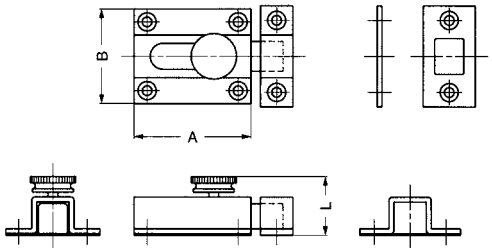
FRAME THICKNESS	Ø K +0.5 -0.0 (+.031 -.000)	MAX. misalignment between ℄'s of panel hole and frame hole.
1.2 (.05) to 3.2 (.13)	19 (.750)	0.9 (.035)
3.2 (.13) to 4.8 (.19)	19.5 (.766)	1.1 (.045)
4.8 (.19) to 6.4 (.25)	20 (.781)	1.3 (.050)
6.4 (.25) and Up	20.5 (.797)	1.5 (.060)

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

SLIDE BOLTS

KNOB STYLE





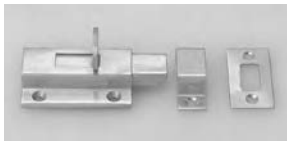
BRASS

- Knurled knob for easy grip

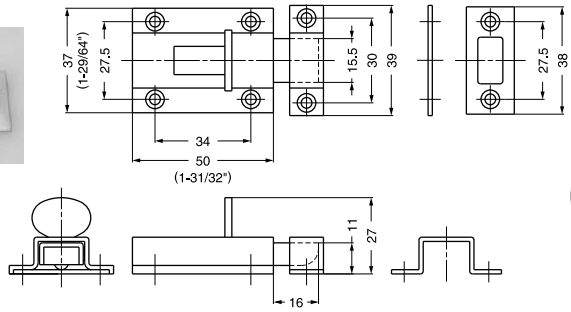
Material: Brass
Finish: Satin nickel

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



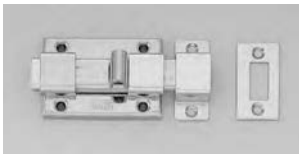
PART NUMBER
KR-50



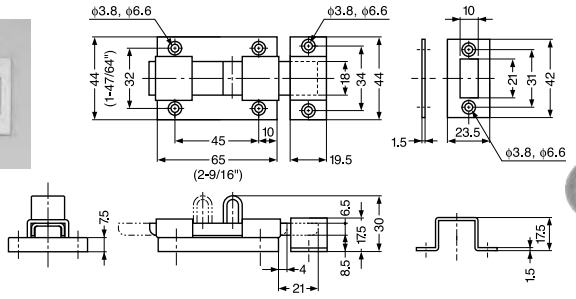
STAINLESS

- Easy to activate

ROUNDED TAB



PART NUMBER
KR-65

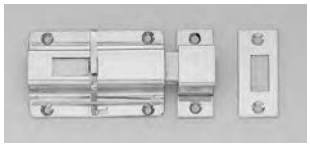


STAINLESS

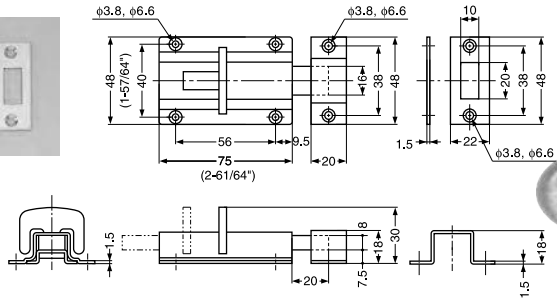
- No snag design

Material: 304 stainless steel
Finish: Polished

WING TAB



PART NUMBER
KR-75

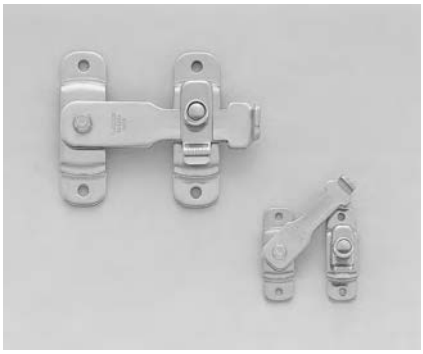


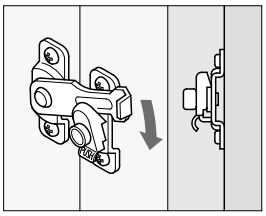
STAINLESS

- Wing drapes over latch channel

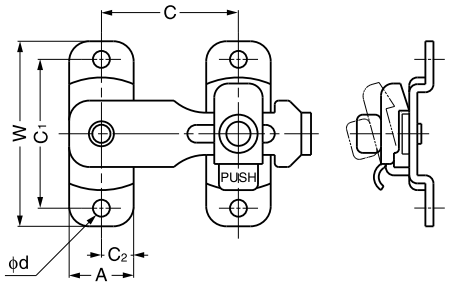
SPRING LOADED BAR LATCH

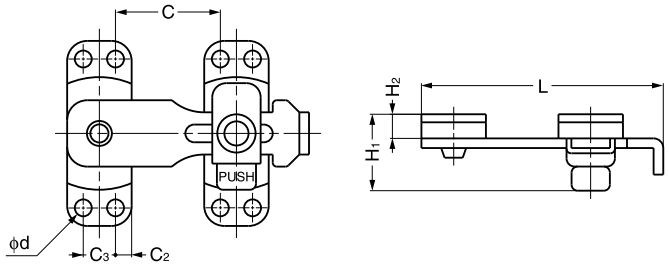
- **Spring action catch secures bar in place for secure closing.**
- **Push button release to disengage latch.**
- **6 sizes available.**
- **NSF recognized component.**





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





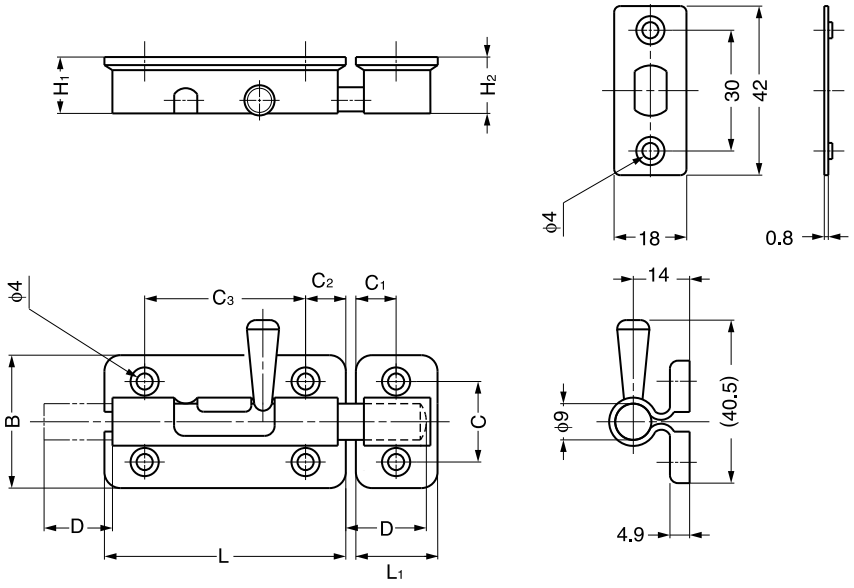
PART NUMBER	PRIMARY DIMENSIONS					MOUNTING DIMENSIONS				
	L	W	A	H_1	H_2	C	C+/-	C_1	C_2	C_3
BLL-45	48 (1.89")	40 (1.57")	13 (.51")	17 (.67")	4.5 (.18")	23 (.91")	3 (.12")	32 (1.26")	6.5 (.26")	----
BLL-60	63 (2.48")	46 (1.81")	16 (.63")	20 (.79")	6 (.24")	34 (1.34")	4 (.16")	37 (1.46")	8 (.31")	----
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

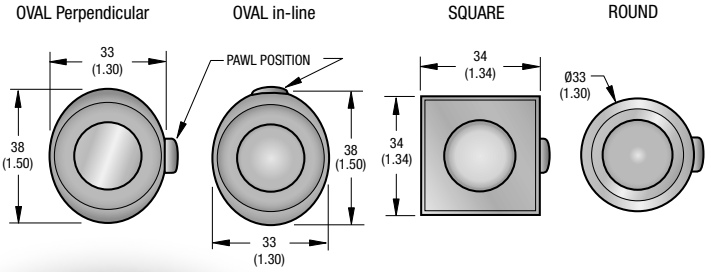
southco® AUTHORIZED DISTRIBUTOR

SOUTHCO® POINT LATCH

- 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.

NON-CORROSIVE



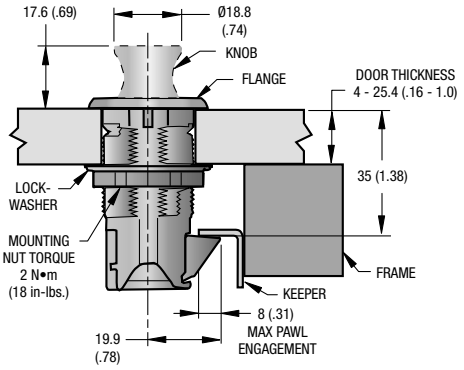


For detailed material specifications plus product installation instructions.

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

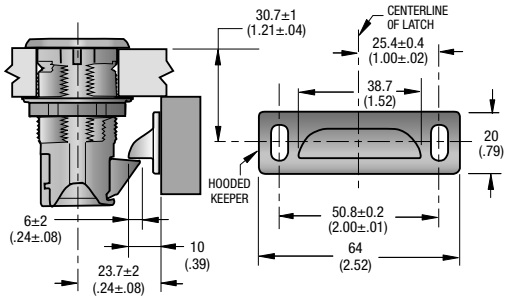
Finish Options



Chrome

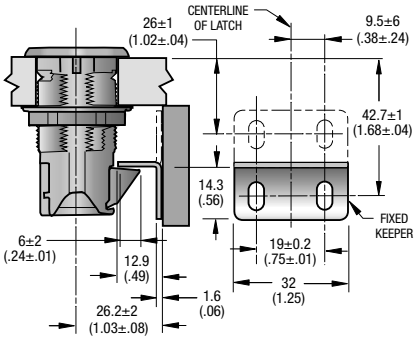
Satin

Brass



FIXED KEEPER
M1-519-4 •

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

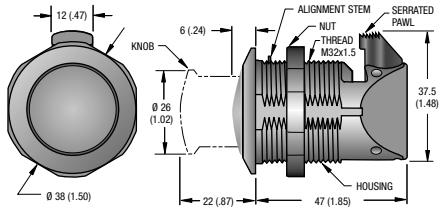


PART NUMBERS					
FLANGE	**KNOB**	**OVAL Perpendicular**	**OVAL In-Line**	**SQUARE**	**ROUND**
Chrome	Chrome	MP-05-112-11	MP-05-122-11	MP-05-212-11	MP-05-312-11
Satin	Satin	MP-05-112-22	MP-05-122-22	MP-05-212-22	MP-05-312-22
Brass	Brass	MP-05-112-44	MP-05-122-44	MP-05-212-44	MP-05-312-44
Chrome	Brass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

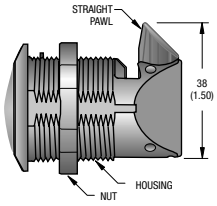
POP-OUT KNOB, "TWIST" TO OPEN DESIGN

- **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

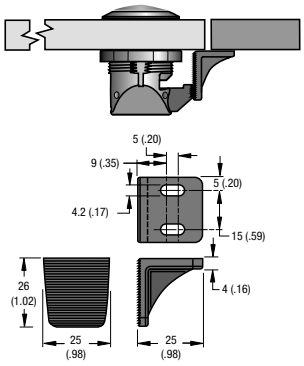


NON-CORROSIVE

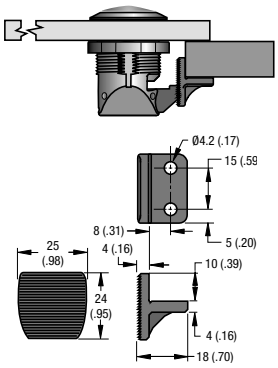


SELF-ADJUSTING GRIP LATCH

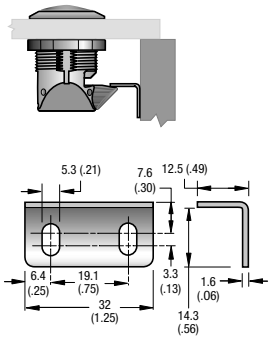
Flush-mount keeper
For flush door/frame configuratons.



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

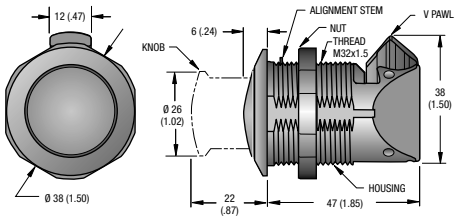
PART NUMBERS		
	SELF ADJUSTING GRIP	
FINISH Knob/Housing	FLUSH-MOUNT ASSEMBLY	SURFACE-MOUNT ASSEMBLY
Chrome/Chrome	M1-2A-12-1	M1-2A-11-1
Black/Black	M1-2A-12-5	M1-2A-11-5
Gold/Gold	M1-2A-12-8	M1-2A-11-8

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

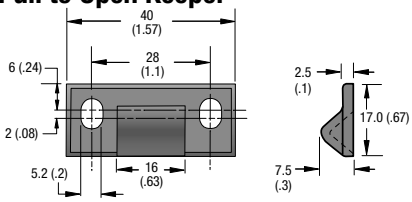
POP-OUT KNOB, "PULL" TO OPEN DESIGN

- **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



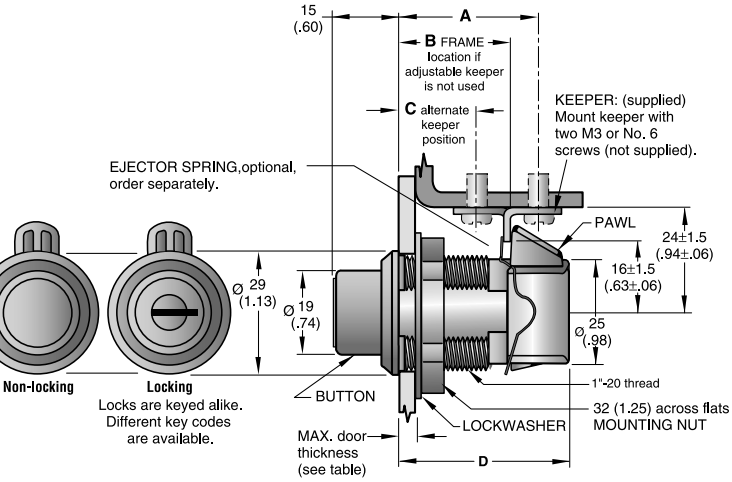
Pull to Open Design

CORROSION-RESISTANT, PUSH-BUTTON STYLE

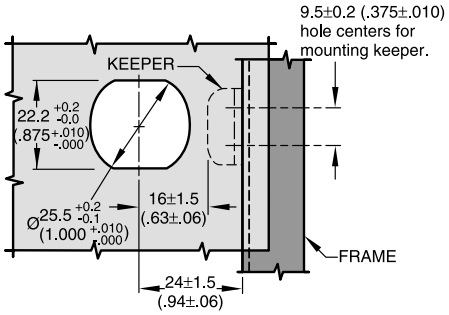
- **Push the button to unlatch.**
- **Locking or non-locking.**
- **Optional pull tabs and ejector spring.**

NON-CORROSIVE

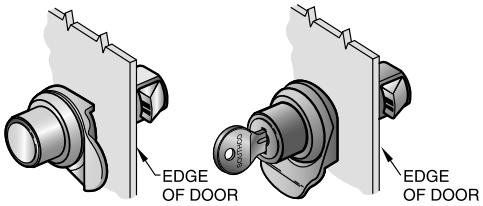




PANEL PREPARATION



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"

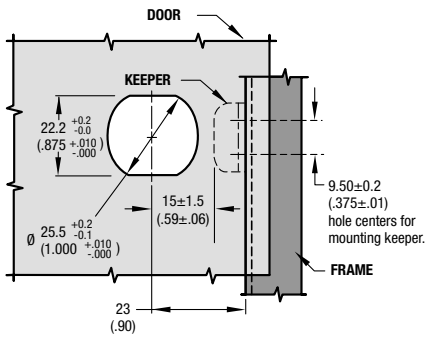
- **Turn, open and pull in one motion.**
- **Key locking.**

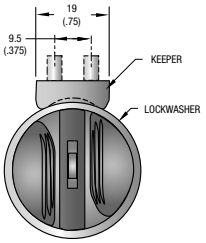
NON-CORROSIVE

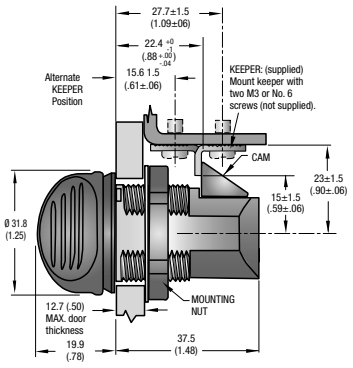


PART NUMBER
93-403 *

PANEL PREPARATION



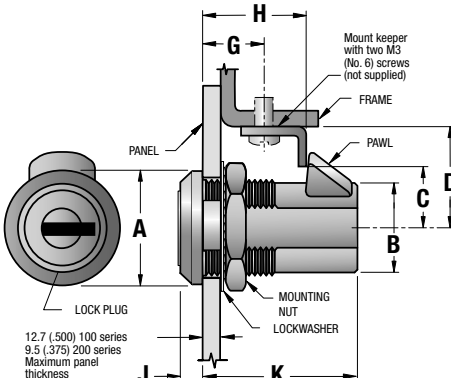




* Latch supplied w/ 2 overmolded keys.

KEY-LOCKING, FLUSH STYLE

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



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.

OPTIONAL SEALING COVER (FLUSH STYLE ONLY)



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

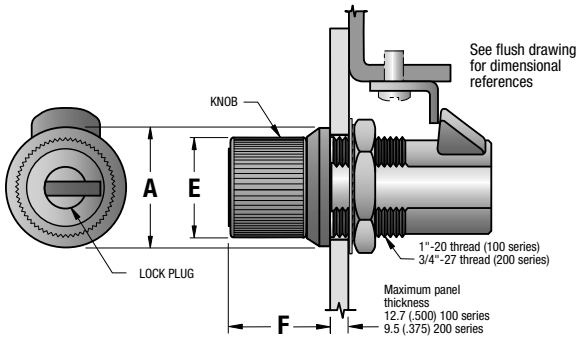
* Add 2.3 mm (.09") to your grip dimension "H", if using sealing covers.

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)

KEY-LOCKING, KNOB STYLE

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

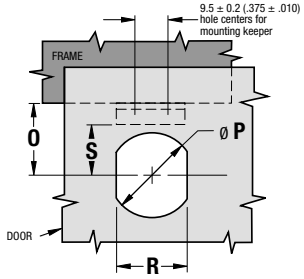


PART NUMBERS		Lock plug Finish
Knob style		
With keylock	Without keylock	
100 Series		
93-10-102-50	**93-10-103-50**	Black
93-10-102-10	**93-10-103-10**	Bright
200 Series		
93-10-202-50	**93-10-203-50**	Black
93-10-202-10	**93-10-203-10**	Bright



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

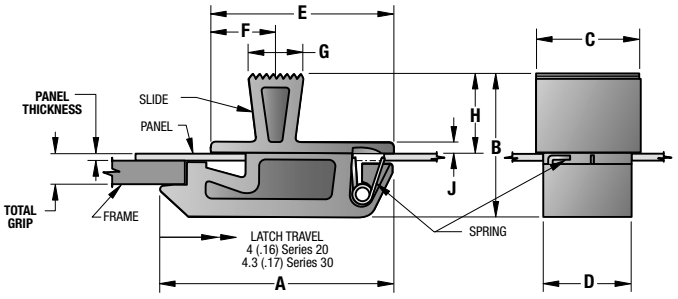
SLIDE LATCH, TAB STYLE

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

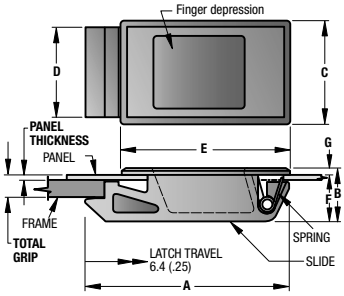
NON-CORROSIVE

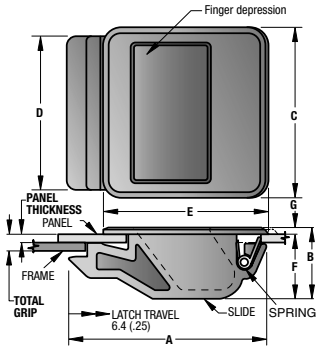


Series 90

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

SERIES 40 AND 50



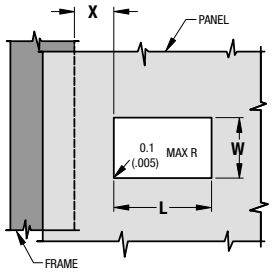


SIZE	GRIP		DIMENSIONS							PART NUMBER
	Panel Thickness	Total Grip	A	B	C	D	E	F	G	
Series 40	1.2± 0.1 (.050±.005)	6.4 ± 0.1 (.250 ± .005)	57 (2.23)	15 (.58)	28 (1.11)	25 (.99)	47 (1.84)	13 (.50)	2 (.08)	A3-40-525-12
	1.8 $^{+0.1}_{-0.0}$ (.070 $^{+.005}_{-.000}$)	6.6 ± 0.1 (.260 ± .005)	57 (2.23)	15 (.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

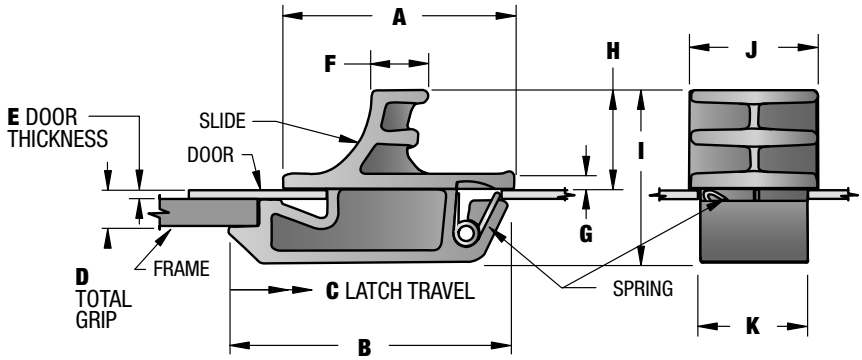


	SERIES	INSTALLATION		
		L	W	X
FLUSH	Small	8.33±0.05 (.328±.002)	4.57±0.05 (.180±.002)	4.8 ±0.8 (.19±.03)
	Medium	12.7±0.1 (.500±.005)	7.8±0.05 (.307±.002)	6.4 ±0.8 (.25±.03)
	Large	22.2±0.1 (.875±.005)	14.3±0.1 (.562±.005)	9.5±0.7 (.38±.03)
TAB	40	38 $^{+0.2}_{-0.0}$ (1.500±.005)	25.5 $^{+0.0}_{-0.2}$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

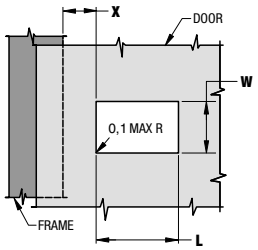
SLIDE LATCH, ERGO TAB STYLE

NON-CORROSIVE





PANEL PREPARATION



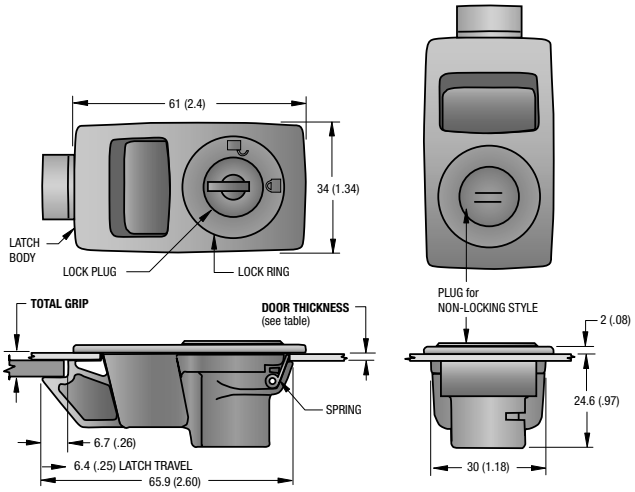
GRIP		DIMENSIONS									INSTALLATION			PART NUMBER
E DOOR THICKNESS	D TOTAL GRIP	A	B	C	F	G	H	I	J	K	L	W	X	
$1 \pm 0.1^{+0.2}_{0}$ (.04 ± .005)	3 ± 0.1 (.12 ± .005)	19 (.75)	22.2 (.87)	4 (.16)	5.1 (.20)	1.5 (.06)	8.3 (.33)	15.5 (.61)	9.5 (.37)	7.6 (.30)	12.7 ± 0.1 (.500 ± .005)	7.8 ± 0.05 (.307 ± .002)	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.**

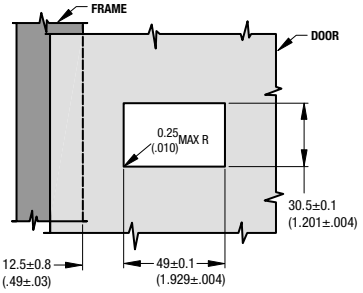
SLIDE LATCH, LOCKING

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.**

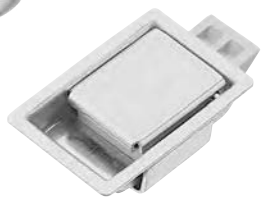
Key PART NUMBERS	
Flat Keys (2 per ring)	PK-10-01
Overmolded Keys (2 per ring)	PK-10-01-05

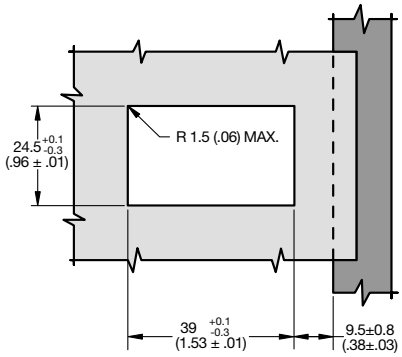
PADDLE LATCH SERIES, MINIATURE SIZE

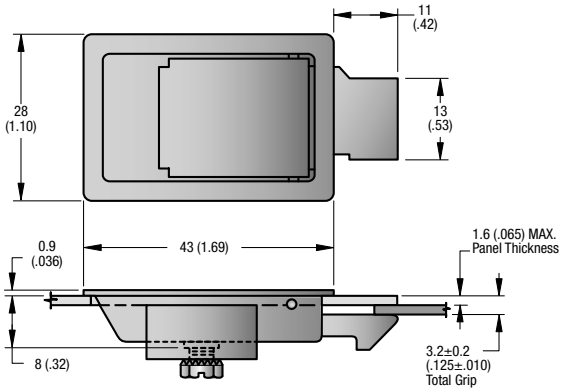
- Plastic slide.
- Flush mount.
- Single hole installation.

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

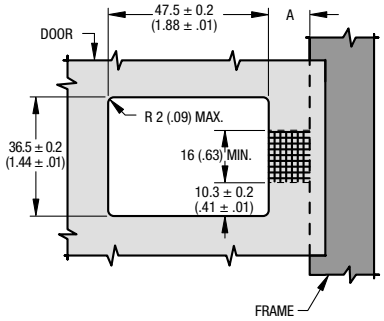




Style 5

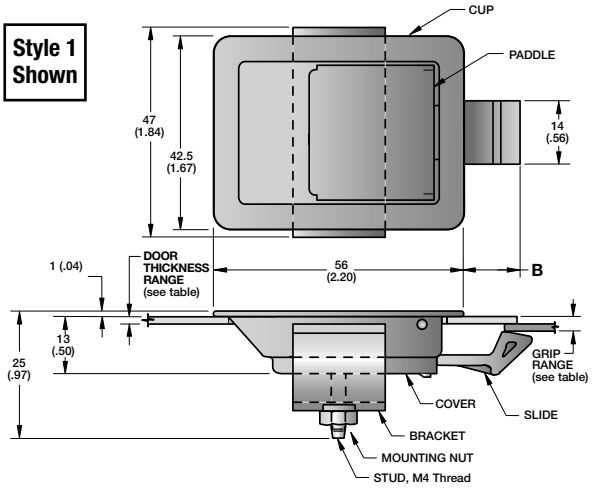


PANEL PREPARATION



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)			

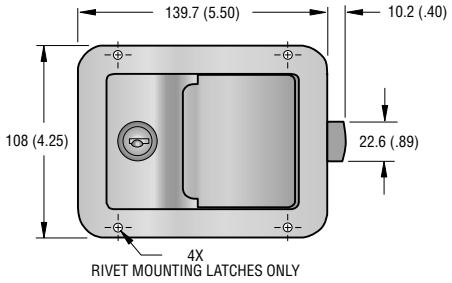
- Larger sizes of Southco® paddle latches are available. Please call.

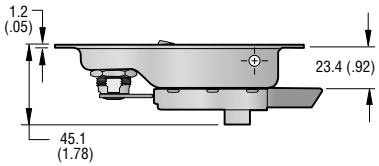
For detailed material specifications plus product installation instructions.

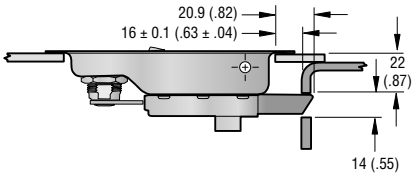
www.clancey.com

- 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





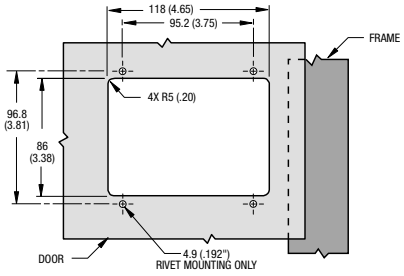




STAINLESS STEEL AVAILABLE

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

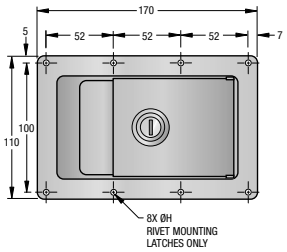
PANEL PREPARATION



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.

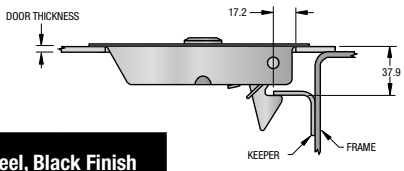
PADDLE LATCH SERIES, LARGE SIZE, HEAVY DUTY PIVOT



STAINLESS STEEL AVAILABLE

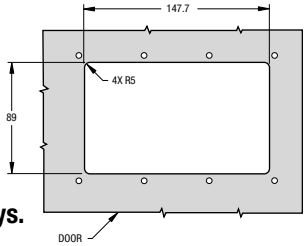


Installation	Stainless Steel Part Numbers		Stainless Steel, Black Finish Part Numbers	
	Locking	Non-Locking	Locking	Non-Locking
Weld	64-60-500-20	64-60-510-20	64-60-500-52	64-60-510-52
3/16" Rivet	64-60-501-20	64-60-511-20	64-60-501-52	64-60-511-52



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

PANEL PREPARATION



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")

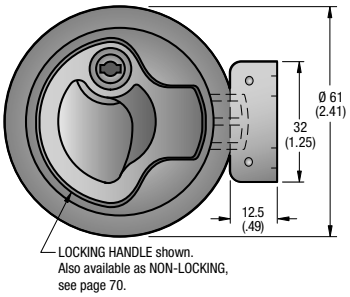
NOTE: Locking latches supplied w/ 2 keys.

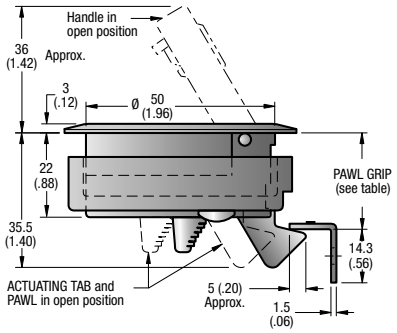
FLUSH PULL LATCH

STAINLESS STEEL AVAILABLE

NON-CORROSIVE

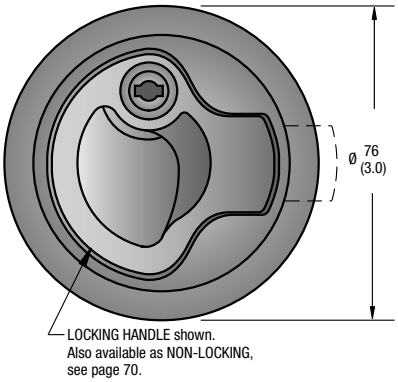
2.00" Medium size

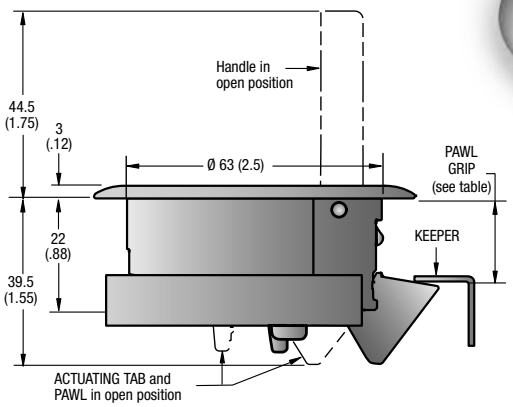




For detailed material specifications plus product installation instructions.
www.clancey.com

2.50" Large size.





ECONOMY VERSION

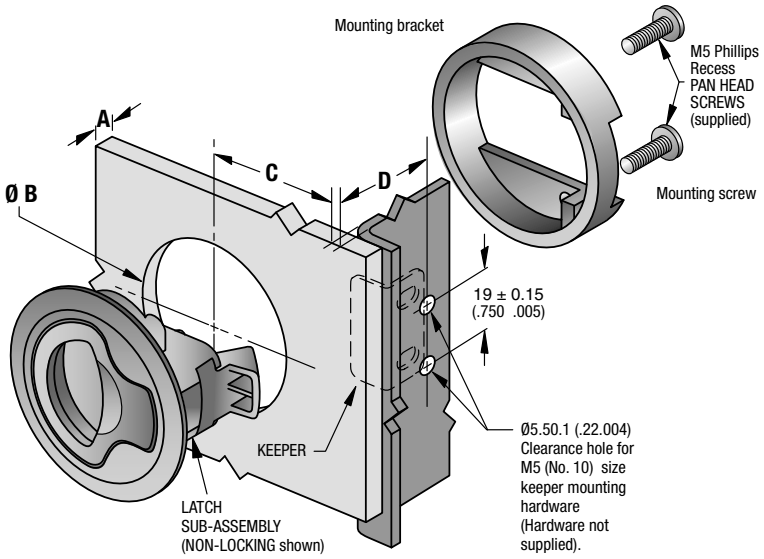
FLUSH SIMPLICITY™



- **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

southco® AUTHORIZED DISTRIBUTOR

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.

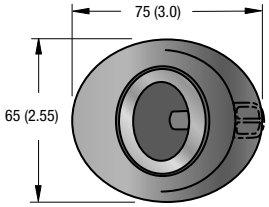
Black composite housing, locking.

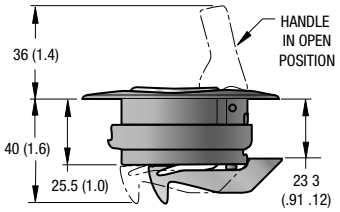




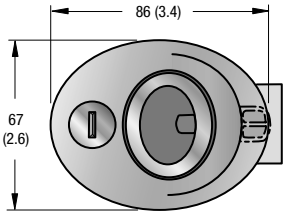
Stainless Cover, non-locking

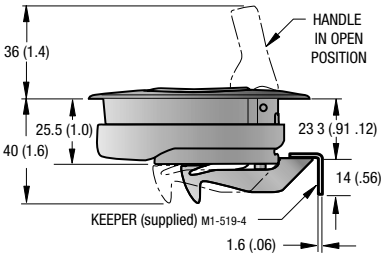
Non-locking





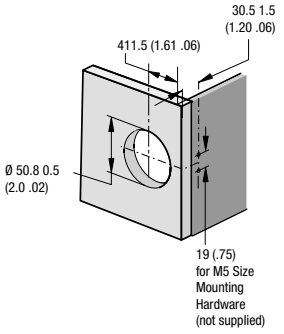
Locking



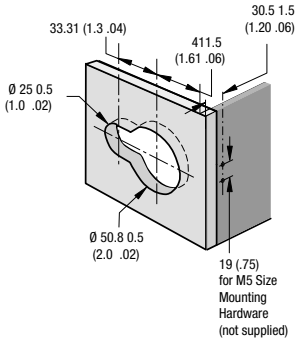


PANEL PREPARATION

NON-LOCKING



LOCKING

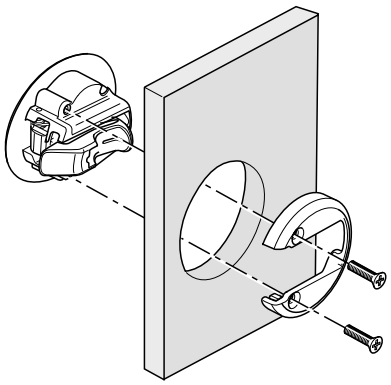


PANEL THICKNESS		PART NUMBERS					
		NON-LOCKING			LOCKING (2 flat keys on a ring supplied)		
MIN.	MAX.	Stainless Steel Cover over Black Housing	Black Housing	White Housing	Stainless Steel Cover over Black Housing	Black Housing	White Housing
10 (.39)	16 (.63)	MP-03-100-000	MP-03-100-550	MP-03-100-770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

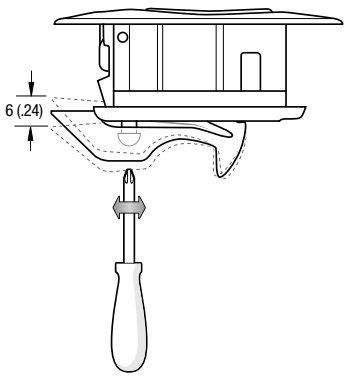
NOTE:
- Handles on all models are stainless steel.
- Locking latches supplied w/ 2 keys.

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

Installation



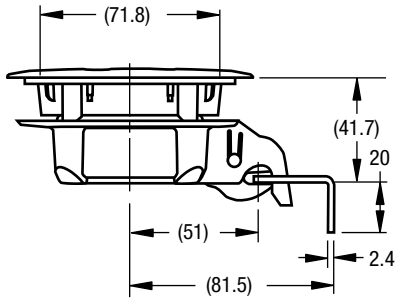
Adjusting

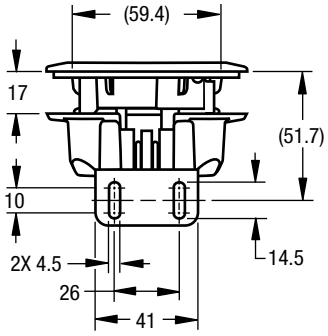


- **4 way orientation of latch pawl.**
- **Corrosion resistant materials.**
- **Rotary action cam delivers easy closing and opening.**

COMPASS LATCH

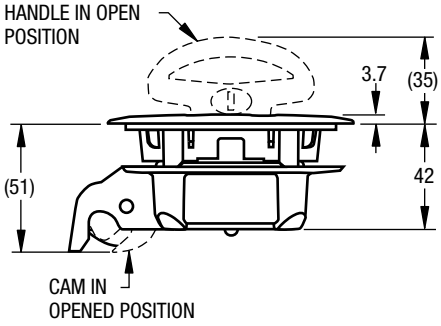
NON-CORROSIVE







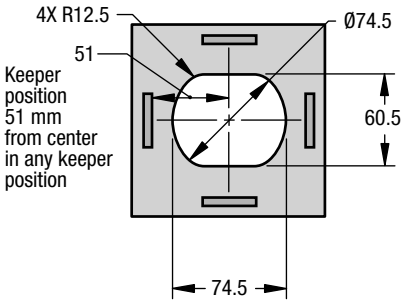
Chrome Face Locking (shown)



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.

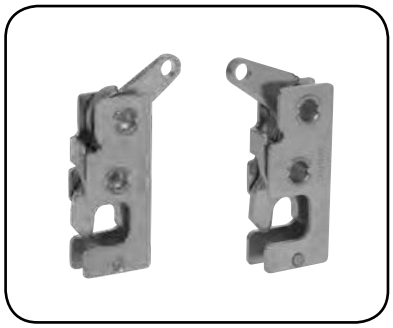
www.clancey.com

LATCHES
PUSH TO CLOSE

CAD POWERED

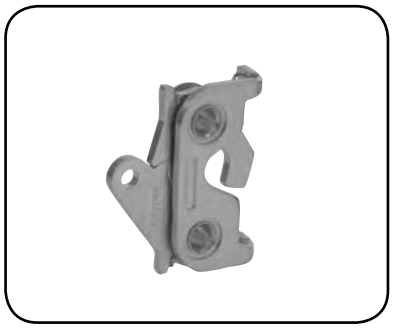
southco® AUTHORIZED DISTRIBUTOR

	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





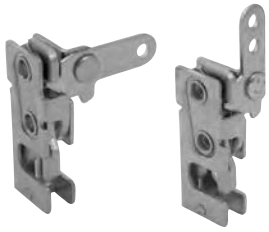




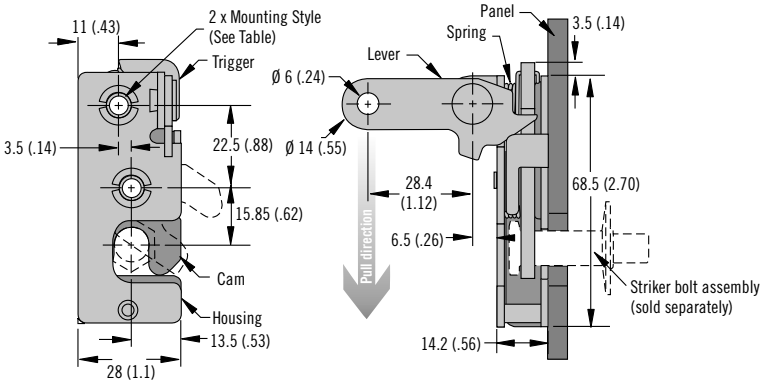


- **Single or multi-point latch capability.**
- **Compatible with wide array of actuators.**

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



Lever Type - Perpendicular (Left hand actuation shown)



Material and Finish

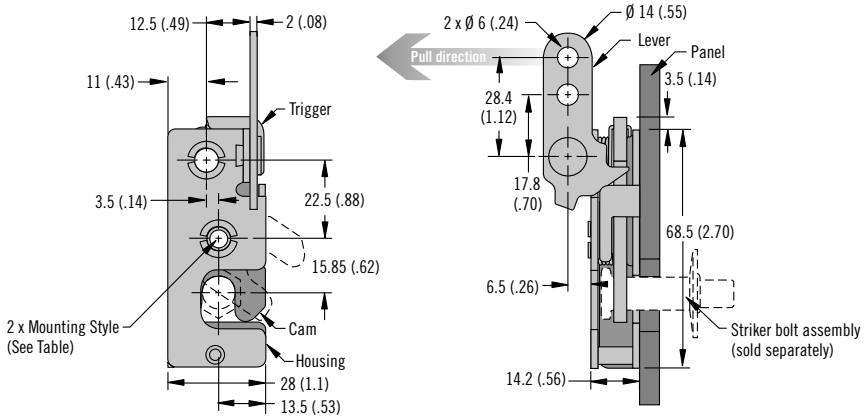
Steel, zinc plated or

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

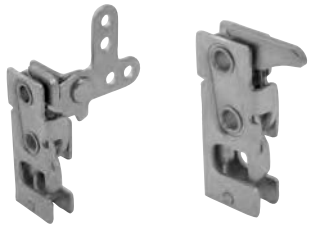
M Material
10 Steel
20 Stainless Steel (Single Stage Only)

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

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

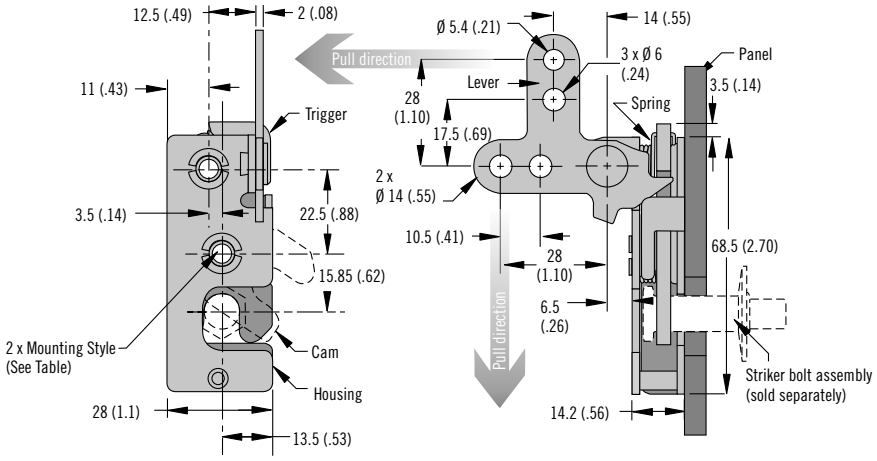
- **Single or multi-point latch capability.**
- **Compatible with wide array of actuators.**



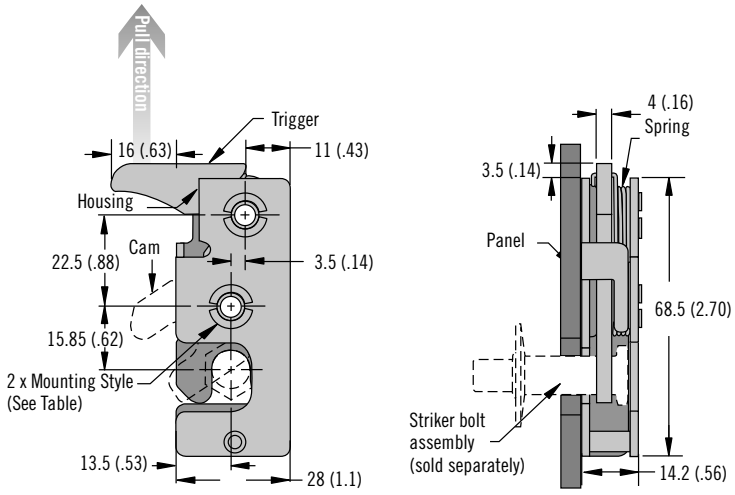
Material and Finish
Steel, zinc plated or 304 Stainless Steel, passivated

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

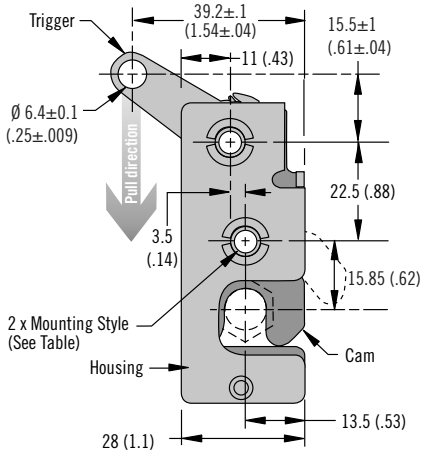
I Mounting Style
- **0** Ø7.2 (.283) Thru
- **1** 1/4-20 Thread
- **2** M6 x 1 Thread

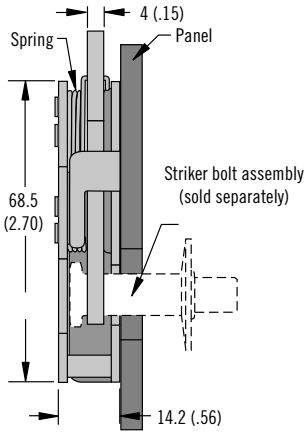
M Material
- **10** Steel
- **20** Stainless Steel (Single Stage Only)

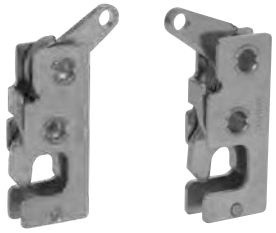
- **Single or multi-point latch capability.**
- **Compatible with wide array of actuators.**

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

Lever Type Bottom (Left hand actuation shown)



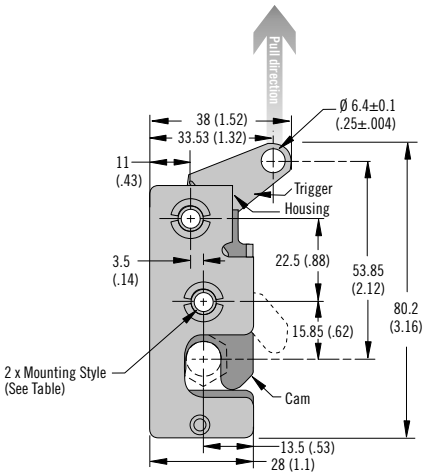


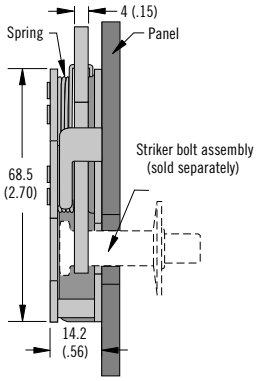


Material and Finish
Steel, zinc plated or 304 Stainless Steel, passivated

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

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

L Lever Type
5 Bottom
6 Top

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

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

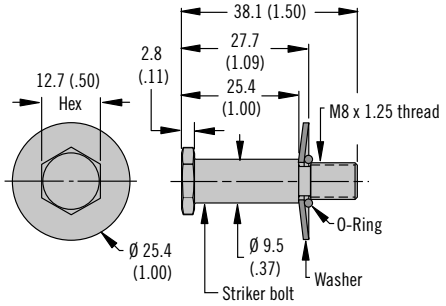
- **Striker bolt for R4-10 series rotary latch.**



Material and Finish

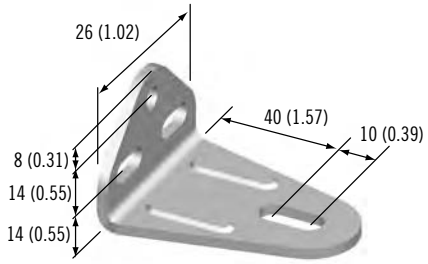
Steel, zinc plated or 304 Stainless Steel, passivated

Striker Bolt Assembly (sold separately)



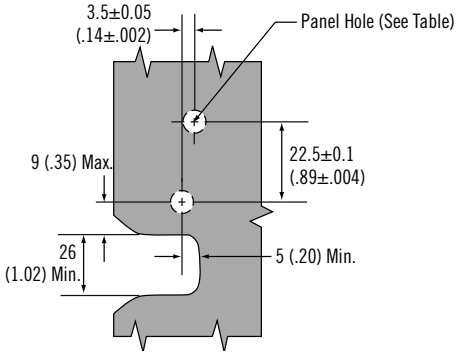
STRIKER BOLT PART NUMBER	
PART NUMBER	**MATERIAL**
R4-90-121-10	Steel
R4-90-121-20	Stainless Steel

Striker 90° Mounting Bracket



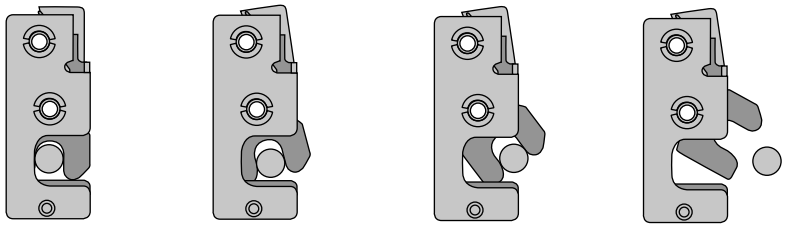
STRIKER MOUNTING BRACKET PART NUMBER
R4-0-50114

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.**

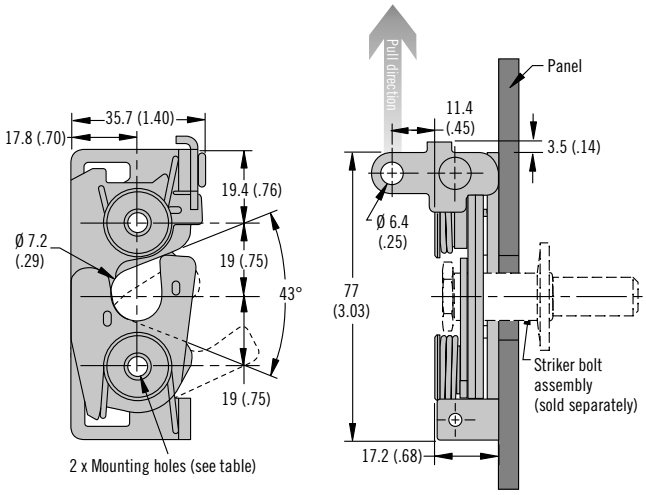
R4 PUSH TO CLOSE LATCH ROTARY LATCH, LARGE, CONCEALED, TWO STAGE



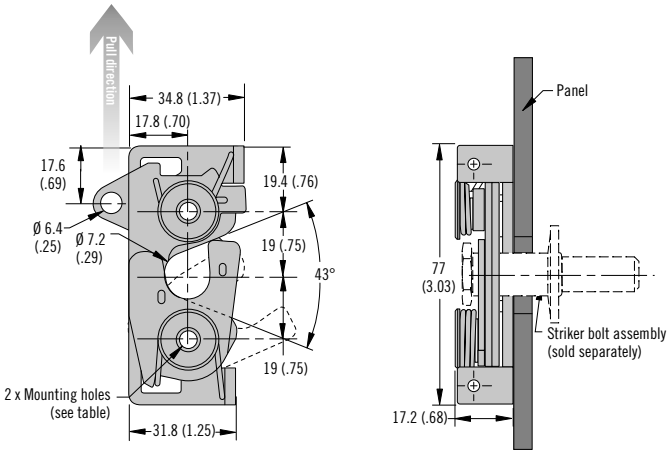
Material and Finish
Steel, zinc plated

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**

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

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

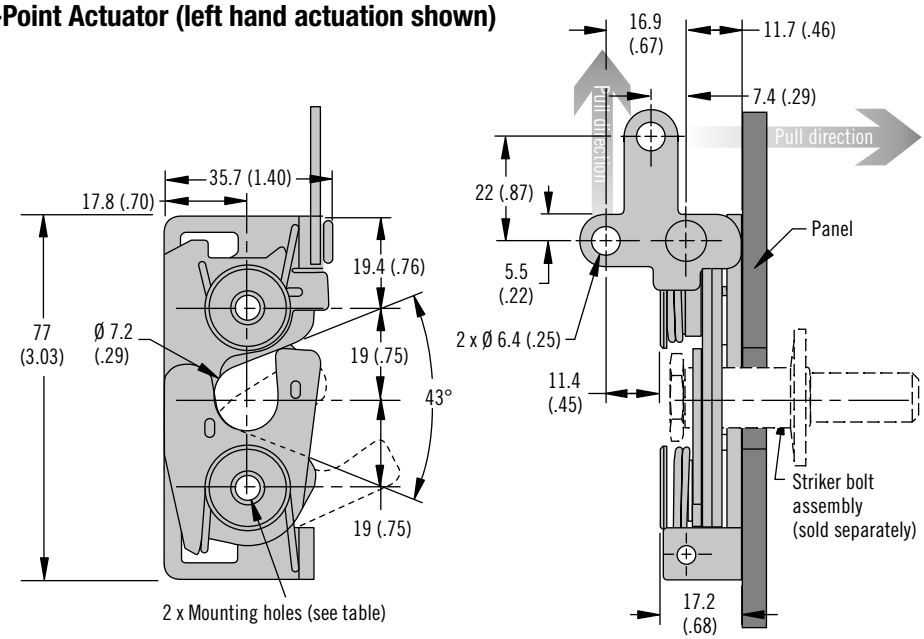
- **Single or multi-point latch capability.**
- **Compatible with wide array of actuators.**
- **FMVSS 206 compliant.**



Material and Finish
Steel, zinc plated

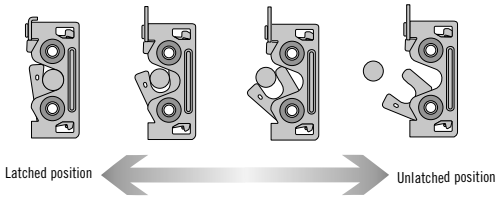
Performance Details
Average ultimate load:
10675 N (2400) as shown
14230 N (3200 lbf) with support bracket.
Contact Clancey for more information.

2-Point Actuator (left hand actuation shown)

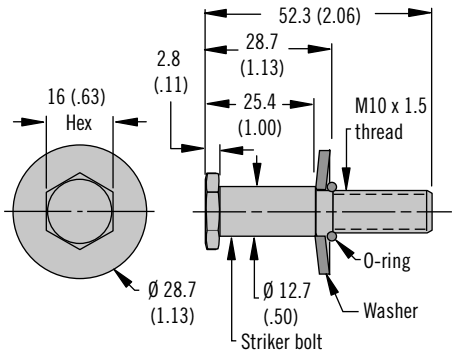


MOUNTING HOLE	PART NUMBER LEFT HAND ACTUATION	PART NUMBER RIGHT HAND ACTUATION
Ø 6.7 (.265) Thru	**R4-30-40-301-10**	**R4-30-30-301-10**
1/4-20 Thread	**R4-30-41-301-10**	**R4-30-31-301-10**
M6 X 1 Thread	**R4-30-42-301-10**	**R4-30-32-301-10**

Operation



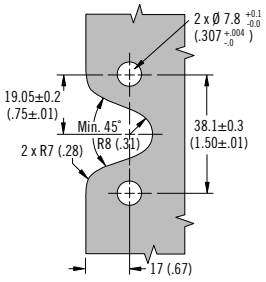
Striker Bolt Assembly (sold separately)



STRIKER BOLT PART NUMBER
R4-90-321-10

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

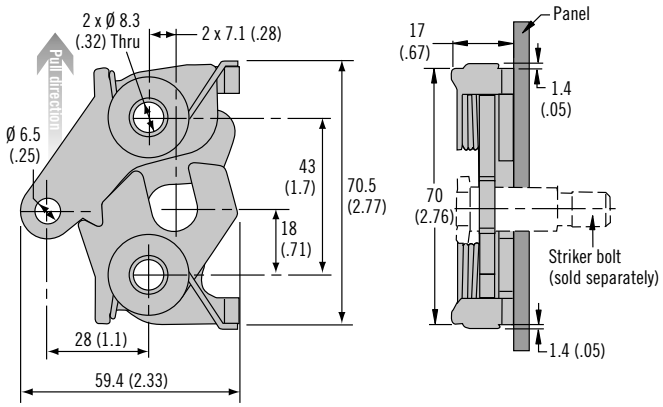
Material and Finish
Steel, zinc plated



- **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)

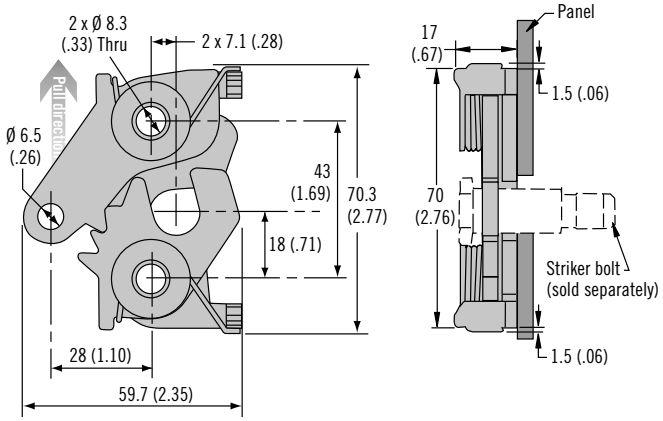




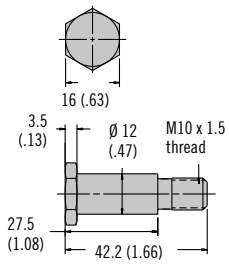
Material and Finish
Steel, zinc plated

Accessories
Cables and retainer clips

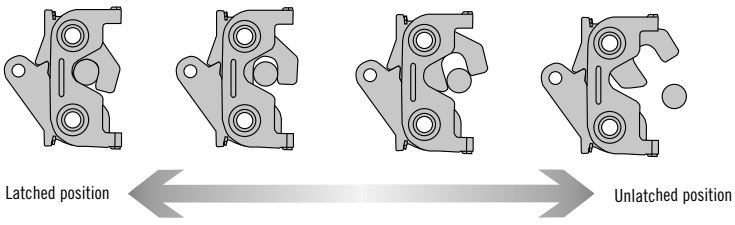
Two Stage (left hand actuation shown)



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	

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

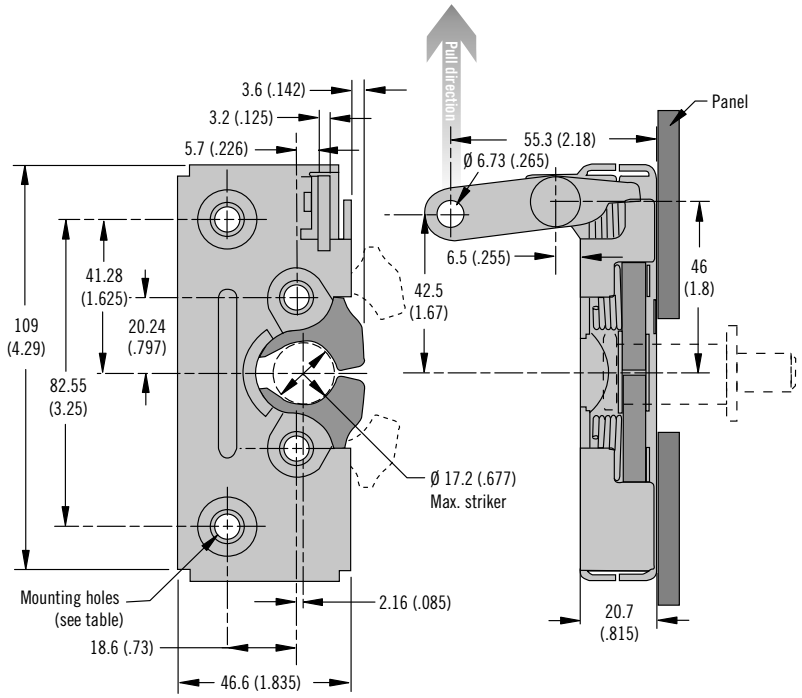
R4 PUSH TO CLOSE LATCH
ROTARY LATCH, HEAVY DUTY, TWO STAGE

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

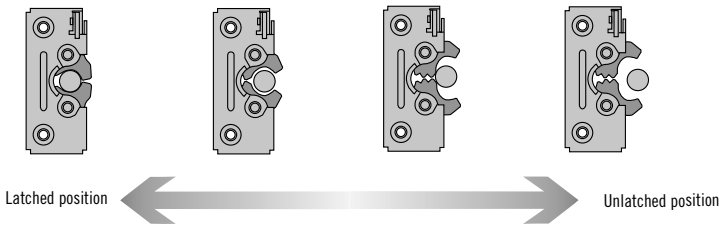


Material and Finish
Steel, zinc plated

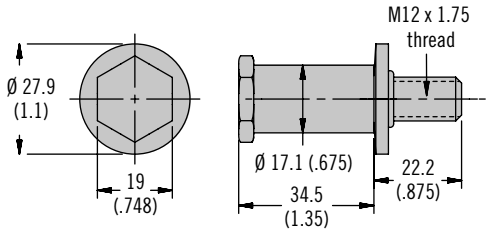
Two Stage (left hand actuation shown)



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

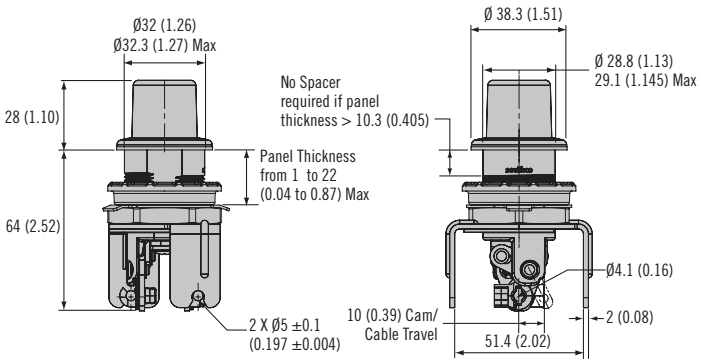
- **Single or multi-point actuation capability.**
- **Accommodates wide panel thickness.**
- **Multiple key code options.**
- **Single hole install.**



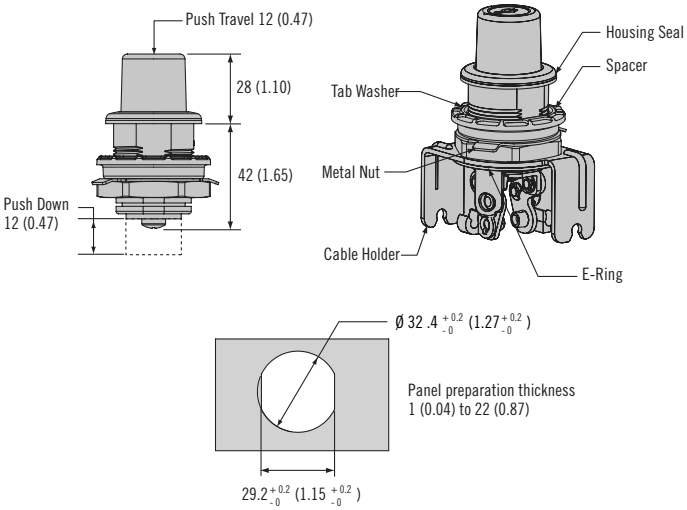
Material and Finish

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

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

AC-40 SINGLE OR MULTI POINT ACTUATOR

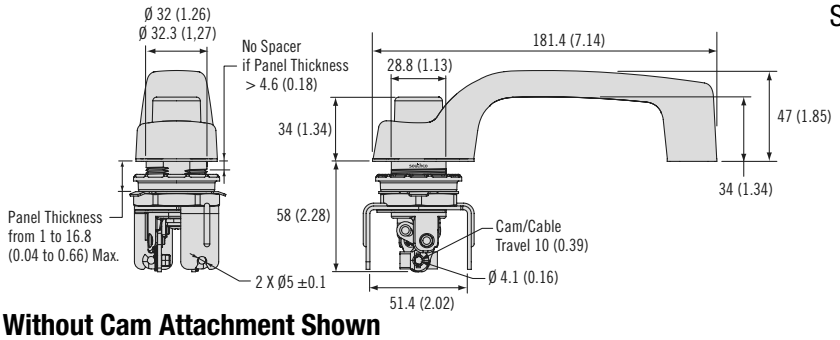


- **Single or multi-point actuation capability.**
- **Accommodates wide panel thickness.**
- **Multiple key code options.**
- **Easy Grip.**

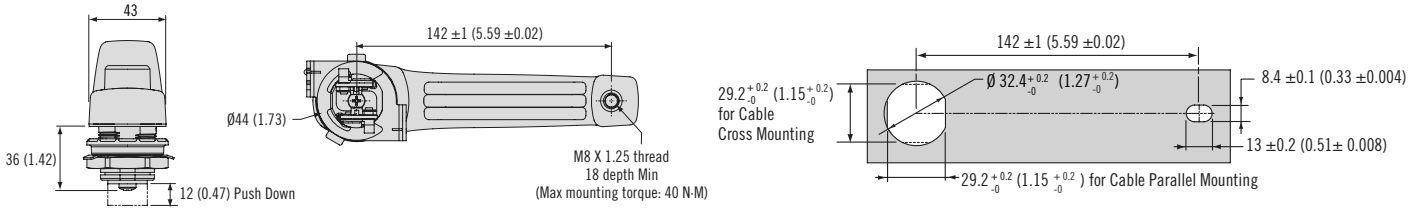
Material and Finish

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

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

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

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

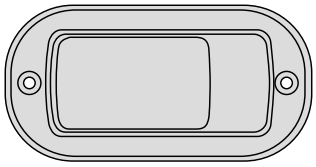
- **Front mount installation.**
- **Three cable mounting options.**
- **Low Profile.**
- **Robust Material.**

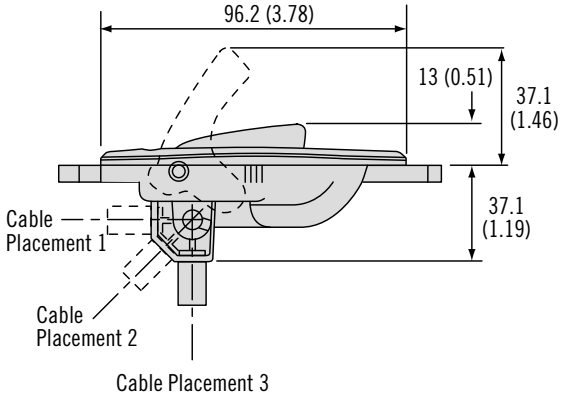
AC-75 SINGLE POINT ACTUATOR PADDLE

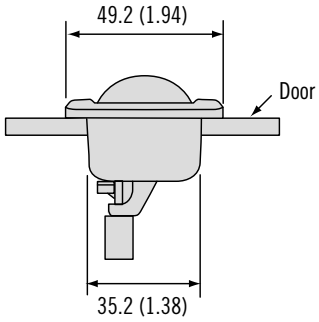
Material and Finish

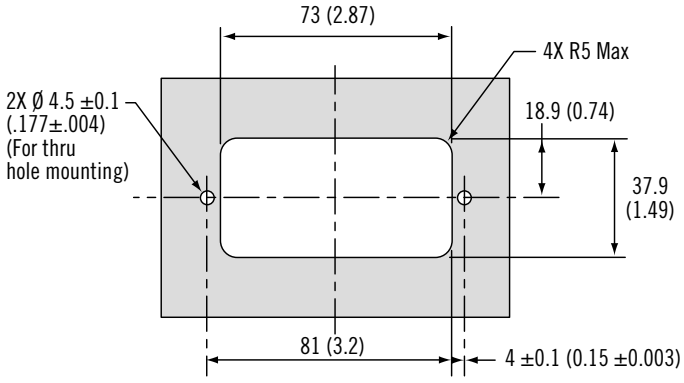
Paddle and housing: Aluminum, black powder coated









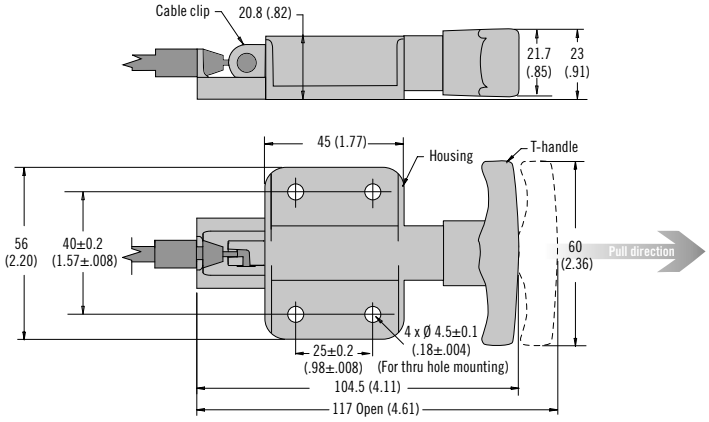


PART NUMBER
AC-75-101-11

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)

AC SINGLE POINT ACTUATOR T-HANDLE





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

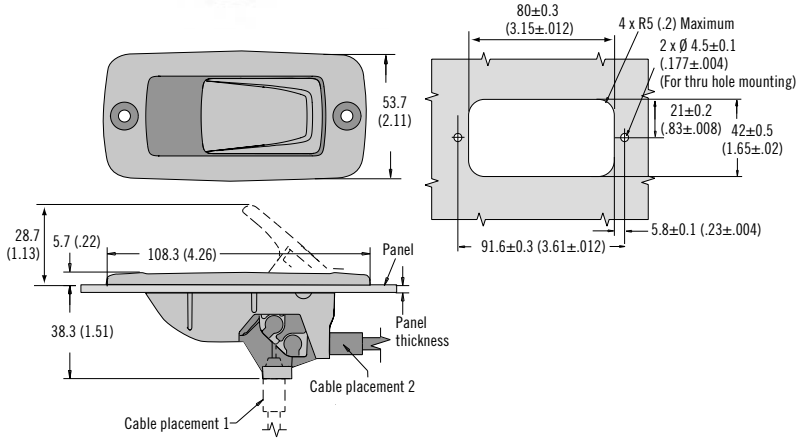
Material and Finish

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)

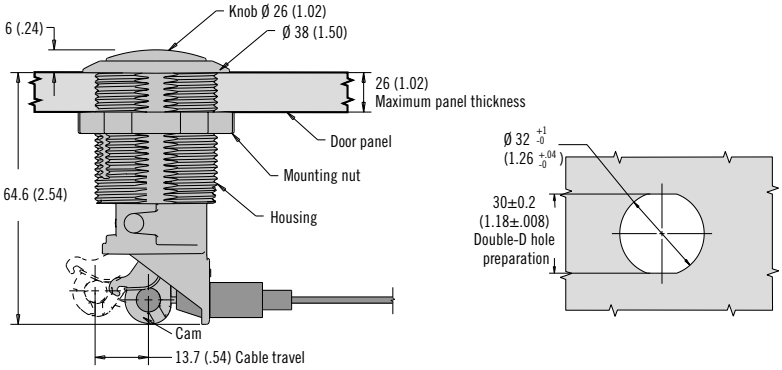
AC SINGLE POINT ACTUATOR PUSH-BUTTON

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

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

AC RETAINER CLIPS AND CABLES

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

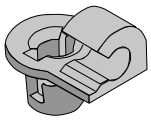
Material and Finish

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

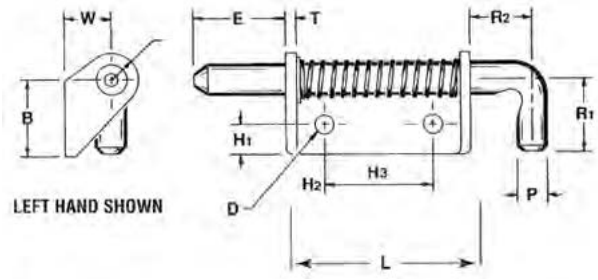


SPRING-ACTION LATCH HEAVY – DUTY

- 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												

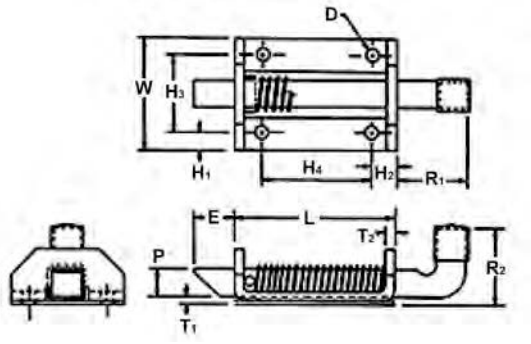
Note: For Stainless Steel assemblies, add "-S" to the part number.

SPRING-ACTION LATCH BOLT STYLE

- Rugged design
- Optional cover for spring.

STAINLESS STEEL AVAILABLE





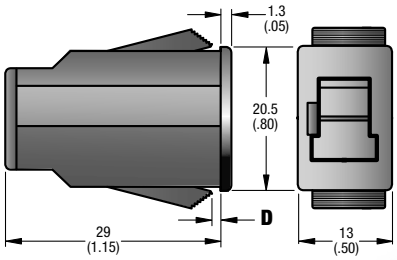
		Primary Dimensions												
PART NUMBER	Style	P	E	R1	R2	L	W	T1	T2	H1	H2	H3	H4	D
707-SZ-COV	covered	.375"	.562"	.812"	1.00"	1.50"	1.25"	.115"	.090"	.187"	.375"	.750"	.875"	.171"
707-SZ	uncovered													
708-SZ-COV	covered	.437"	.750"	1.00"	1.25"	2.00"	1.63"	.125"	.120"	.250"	.375"	1.25"	1.13"	.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													

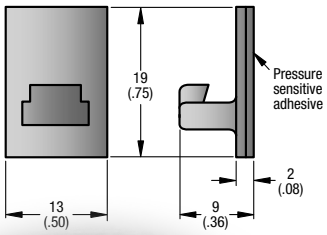
Note: For Stainless Steel assemblies, add "-S" to the part number.

TOUCH LATCH, SNAP-IN DESIGN

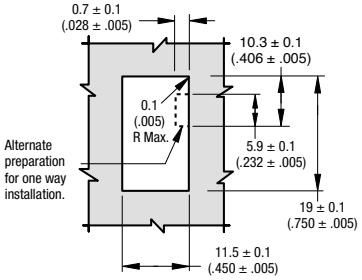
- Push the door to latch and unlatch.
- "Snap-in" installation.
- Self-adhesive keeper.







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

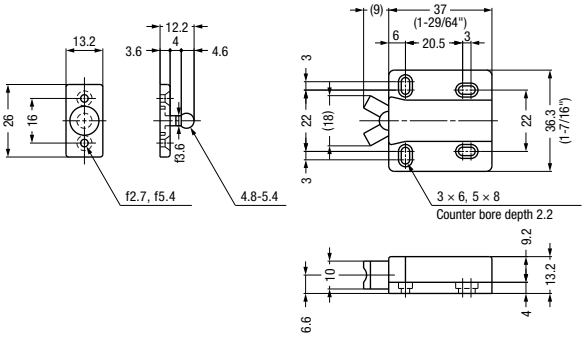
TOUCH LATCH, SCREW MOUNT

- 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.



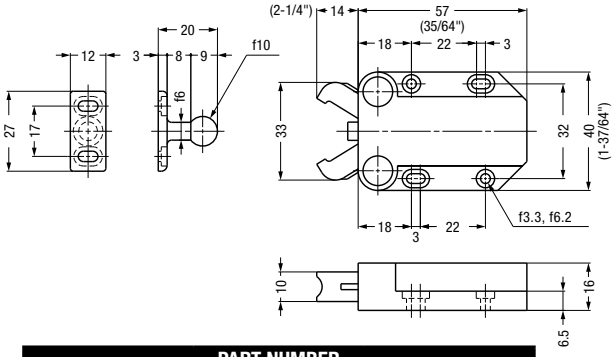


PART NUMBER
MC-28

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

CAD POWERED

MAGNETIC TOUCH LATCHES

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

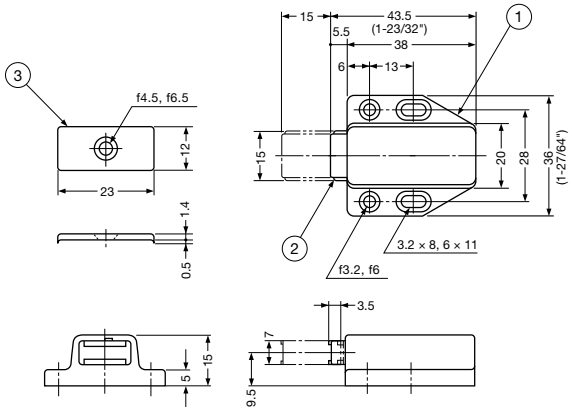
STANDARD SERIES

- 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



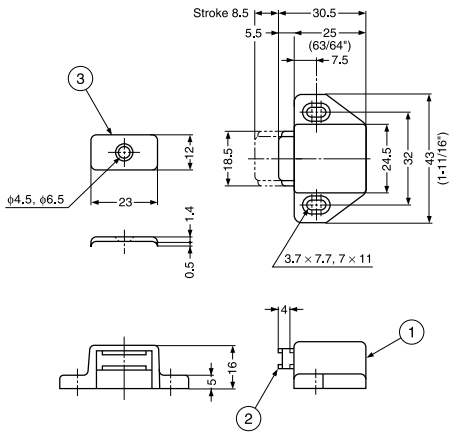
MINIMAL PROTRUSION

- 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.



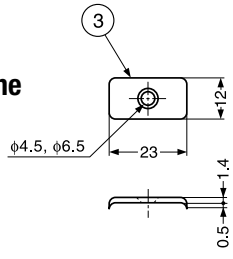
DOUBLE CATCH

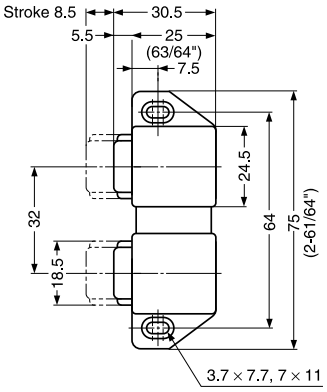
- Used for dual doors meeting in the center.
- Each half operates separately.
- 2.6 lbs. holding force (each).
- 8.5 mm stroke.



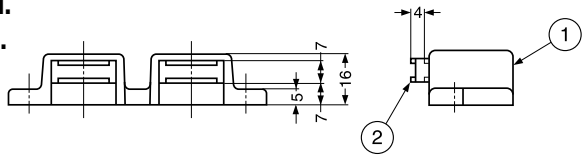
PART NUMBER	COLOR
ML-30W-WHT	WHITE
ML-30W-BRN	BROWN

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

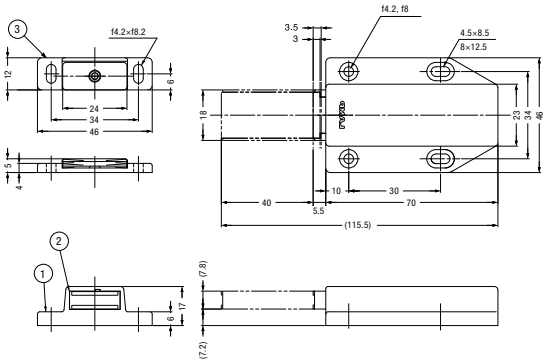




Material: (All models)
Body - ABS plastic.
Magnet-steel.
Strike - steel.



MAGNETIC TOUCH LATCHES



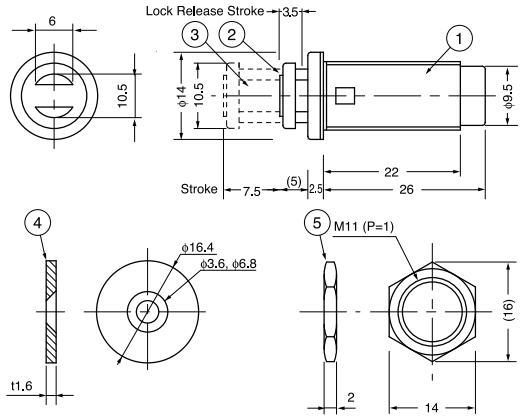
- 2 colors.
- 5.2 lbs. holding force.
- 40 mm stroke.

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.

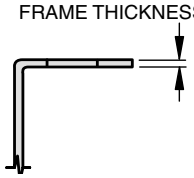
CAD POWERED

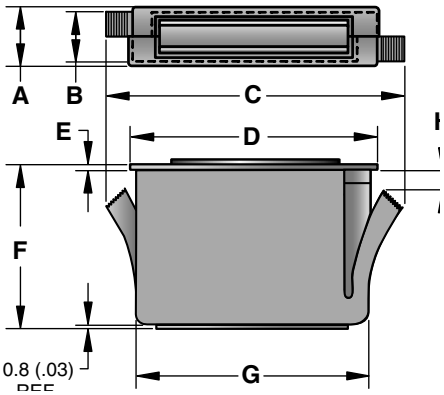
southco® AUTHORIZED DISTRIBUTOR

MAGNETIC CATCH, "SNAP-IN" STYLE

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







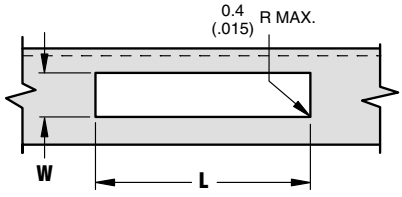
SIZE	DIMENSIONS							FRAME THICKNESS		H	PART NUMBERS		Break-away Force
	A	B	C	D	E	F	G	MIN.	MAX.		Black	White	
Small (300 Series)	7.7 (.30)	6.1 (.24)	27.9 (1.10)	23.6 (.93)	0.8 (.031)	13.3 (.52)	22 (.87)	0.5 (.020)	2 (.080)	0.9 (.035)	02-10-301-10	02-10-301-20	1.8 LBS.
			26.7 (1.05)					2 (.080)	3.5 (.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

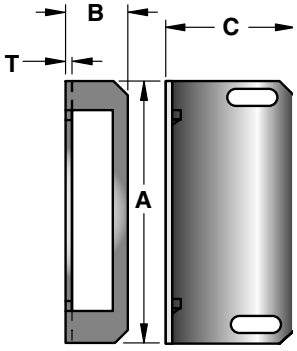


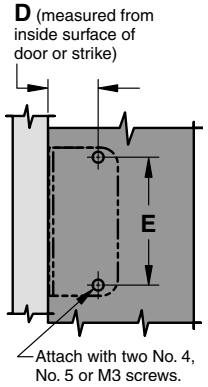
SIZE	L± 0.1 (.005)	W± 0.1 (.005)
Small (300 Series)	22.2 (.875)	6.4 (.250)
Medium (100 Series)	38.1 (1.500)	8.1 (.320)
Large (200 Series)	57.1 (2.250)	9.6 (.380)

MOUNTING BRACKET

Order Separately.

For applications where frame is not suitable for punching.

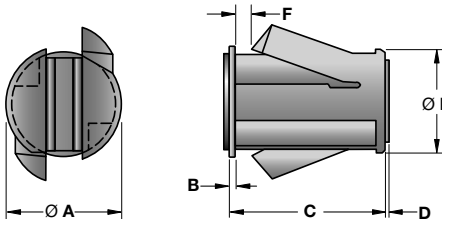


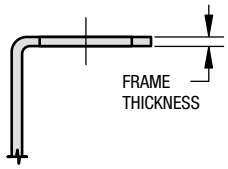


SIZE	For use with these catches ONLY:	DIMENSIONS						BRACKET PART NUMBER
		A	B	C	D	E ±0.1 (±.005)	T	
Small (300 series)	02-10-301-10 02-10-301-20	41.3 (1.63)	11.1 (.44)	13.5 (.53)	7.9 ±2.4 (.31 ±.09)	35 (1.38)	1 (.042)	02-16-301-11
Medium (100 series)	02-10-101-10 02-10-101-20	51 (2.00)	12.7 (.50)	24.6 (.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

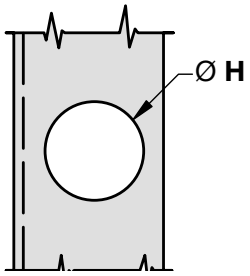






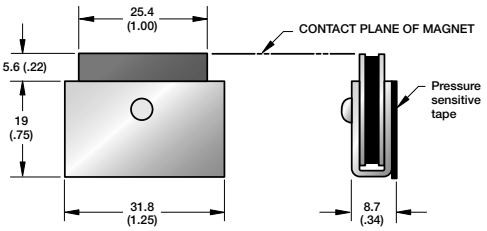
SIZE	DIMENSIONS						FRAME THICKNESS		PART NUMBER	RATED LOAD
	Ø A	B	C	D	Ø E	F	MIN.	MAX.		
Small (400 series)	.16 (.63)	0.8 (.031)	21.4 (.84)	0.8 (0.3)	14.2 (.558)	0.8 (.030)	0.5 (.020)	2 (.080)	02-20-411-10	24 N (5.5 lbs.)
						2.3 (.090)	2 (.080)	3.5 .140)	02-20-412-10	
						3.8 (.150)	3.5 .140)	5 (.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

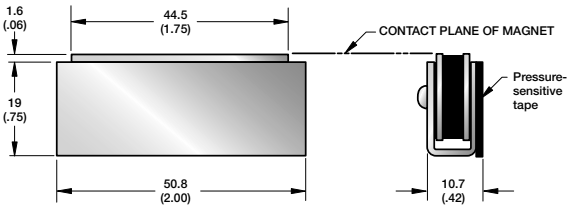


MAGNETIC CATCH, ADHESIVE-MOUNT STYLE

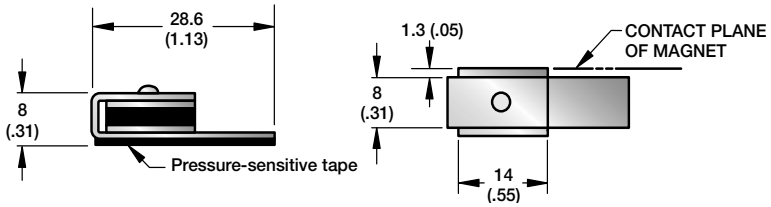
SERIES	PART NUMBER	RATED LOAD
100	02-30-121-10	40 N (8.7 lbs.)
200	02-30-221-10	52 N (11.8 lbs.)
300	02-30-321-10	18 N (4 lbs.)



SERIES 200

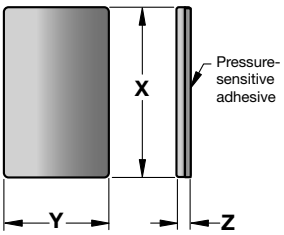


SERIES 300



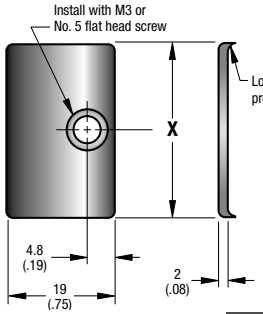
ACCESSORIES – Steel strikes

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		

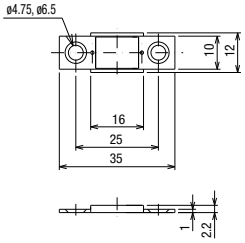
EXPANDED RANGE

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).

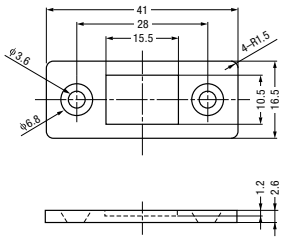
Material: magnet-neodymiom, base-steel, nickel finish

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

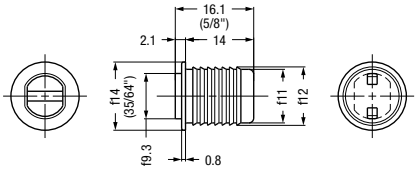
PART NUMBER
MC-159

MINIATURE ROUND

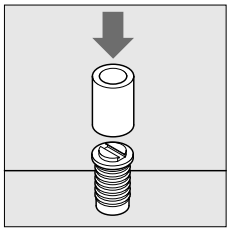
- "Push" into wood or metal panels.
- 5.5 lbs holding force.

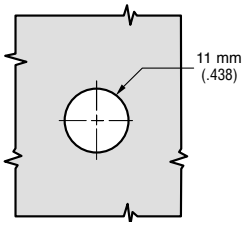


PART NUMBER	COLOR
IS-4/WHT	WHITE
IS-4/BLK	BLACK



PANEL PREPARATION

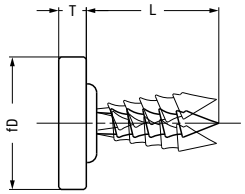




STRIKES

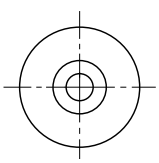
- Steel material for use with any magnet.
- Easy to install.

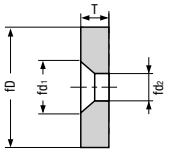




PART NUMBER
Z4





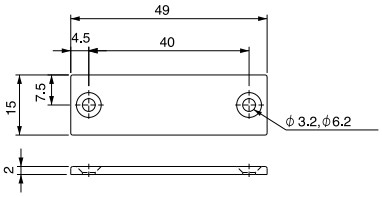


PART NUMBER	T	D	d_1	d_2
W4	2.5	12	6	3
W12	3	15	8	4

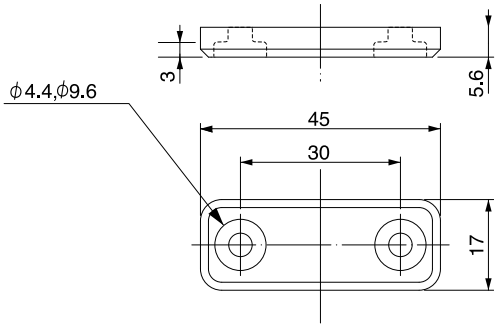
SEALED MAGNETIC LATCH, THIN

- 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



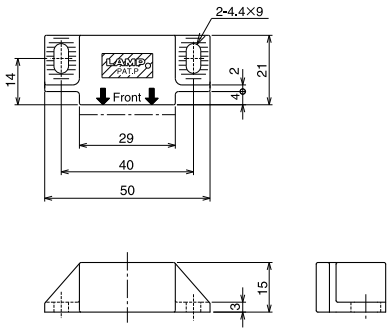


PART NUMBER
JM-45

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)



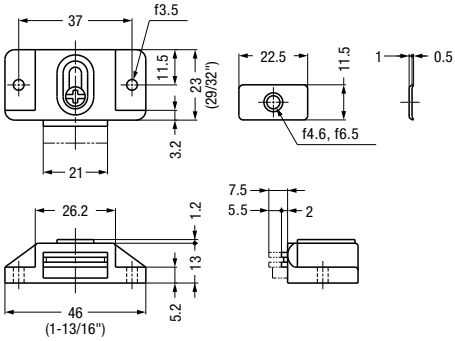


Note: Use M4 mounting screws (not supplied)
- Stainless striker featured above.

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.



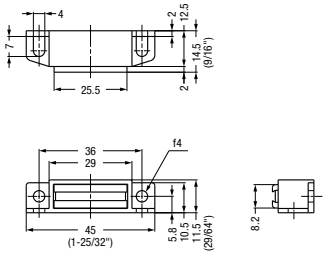


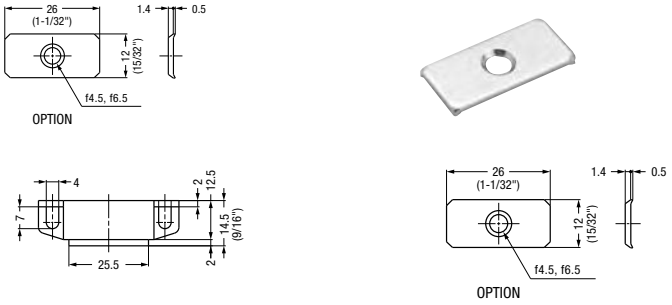
PART NUMBER	COLOR
MC-84-WHT	WHITE
MC-84-BLK	BLACK

SCREW MOUNT MAGNETIC CATCHES

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







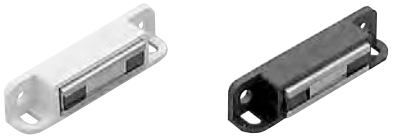
PART NUMBERS			HOLDING FORCE
BLACK	WHITE	GREY	
MC0099BLK	MC0099WHT	—	2.4 lbs.
MC0099SBLK	MC0099SWHT	—	8.3 lbs.
—	—	MC0099GR	11.4 lbs.

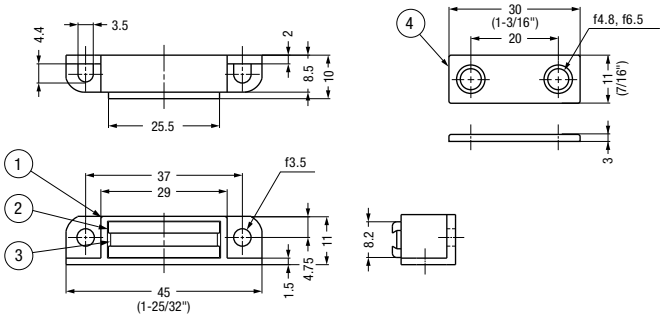
Striker (order separately)

STRIKER PART NUMBER
SP0207

SCREW MOUNT MAGNETIC LATCHES HIGH FORCE

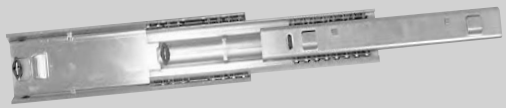
- **Minimum protrusion design with screw mounting in 2 planes.**
- **17.6 lbs. holding force – highest force composite body magnet offered by Clancey.**
- **2 colors.**
- **Striker included.**





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

DRAWER SLIDES

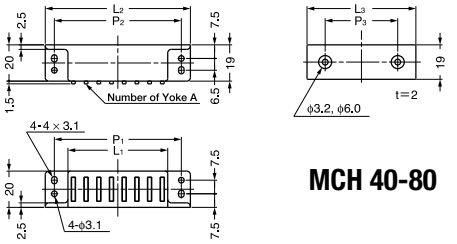


Clancey features a full line of standard and specialty drawer slides which can meet many application requirements. We specialize in stainless steel and extremely high capacity slides. Please give us a call for design assistance or samples.

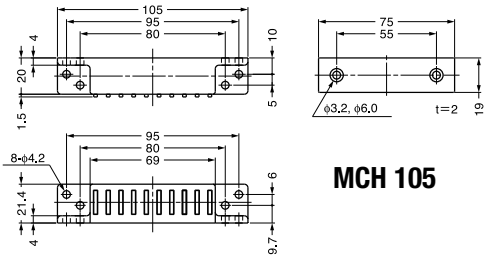
Review our offerings on pages 252-263

HEAVY DUTY MAGNETIC CATCH

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



MCH 40-80



MCH 105

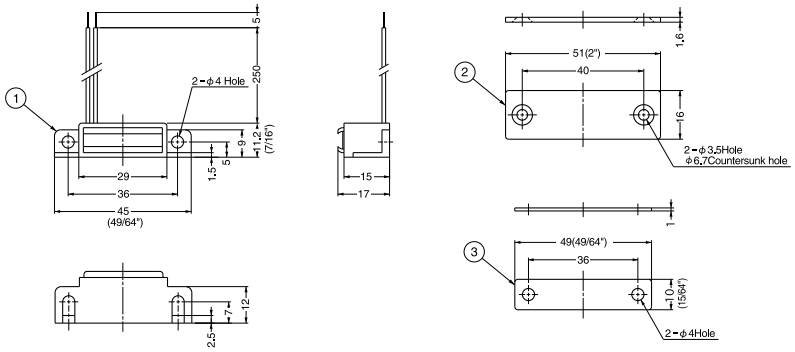
MCH-105 MCH-61 MCH-40



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.

ELECTRONIC MAGNETIC CATCH

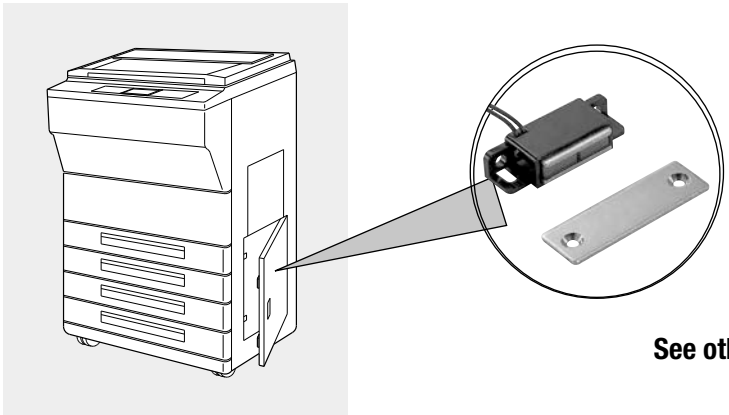
- **2 holding forces.**
- **Door open "ON" or door open "OFF" options.**





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.

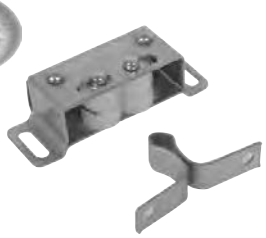
See other electronic latching solutions on page 128 & 132.

LATCHES
PUSH TO CLOSE

CAD POWERED

STAINLESS ROLLER CATCH

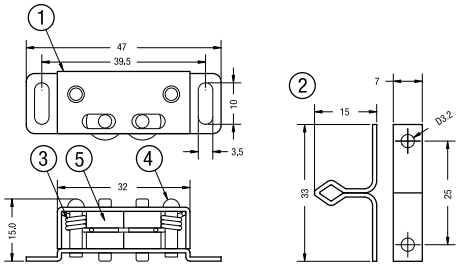
STAINLESS



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

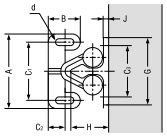


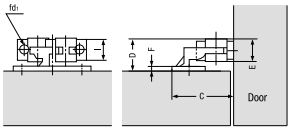
COMPOSITE ROLLER CATCH

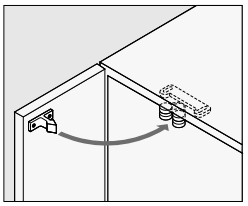
NON-CORROSIVE

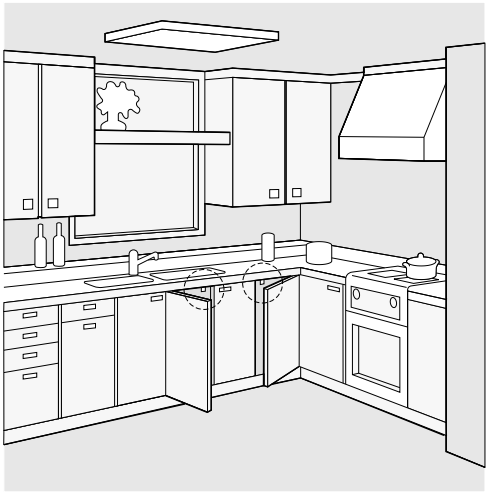


- Non-corrosive materials
- Affordable
- Exceeds 300,000 cycles
- 2 sizes/forces









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")

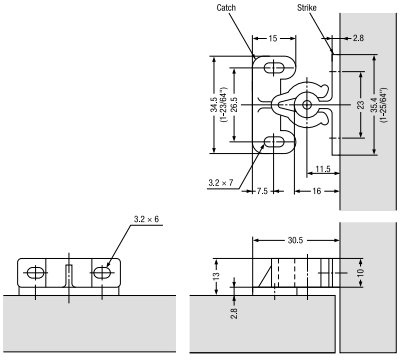
KNUCKLE CATCH

NON-CORROSIVE



PART NUMBER	HOLDING FORCE
K-115	15.4 lbs.

- Non-corrosive materials
- Aggressive holding force
- Affordable



LATCHES, PUSH TO CLOSE

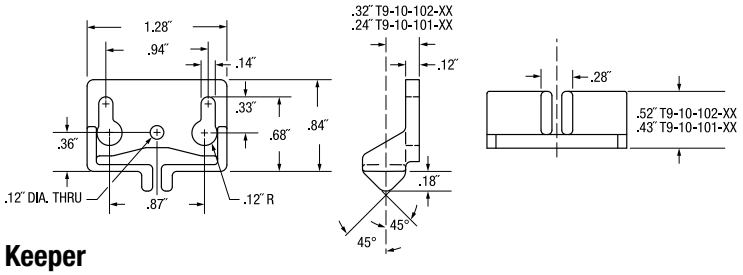
clancey DESIGN DISTRIBUTOR

DETENT CATCH

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

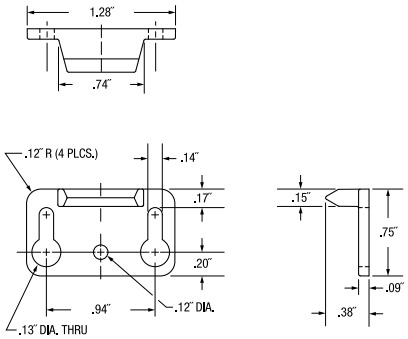
NON-CORROSIVE

T9-10-102-XX

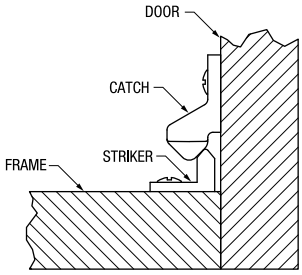




Keeper



Installation



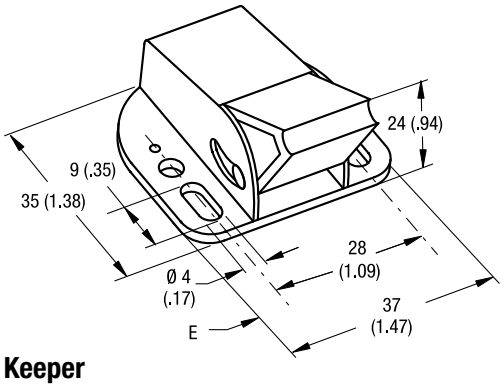
PART NUMBER	COLOR
T9-10-102-70	White
T9-10-102-50	Black

SNAPPY CATCH

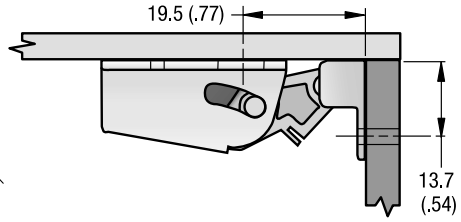
- Over center latching for vibration resistance.
- Cam self-adjusts for misalignment.

NON-CORROSIVE

Catch

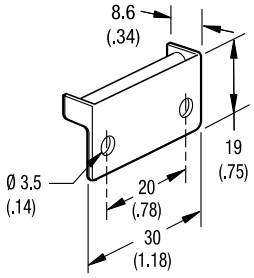


Installation





Keeper



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

For detailed material specifications plus product installation instructions.

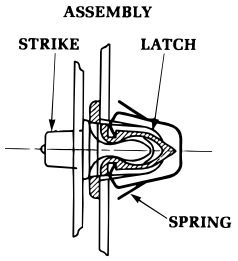
www.clancey.com

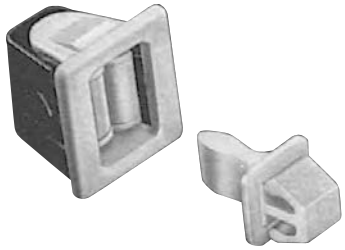
LATCHES
PUSH TO CLOSE

CAD POWERED

STRIKE AND LATCH

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





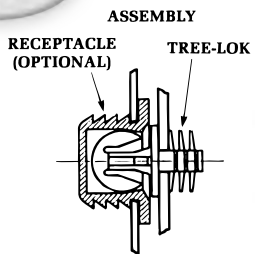
LATCH PART NUMBER	MOUNTING	
	HOLE SIZE	PANEL THICKNESS
7800-01	.515" X .656" RECTANGLE	.035" - .060"

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





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.

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

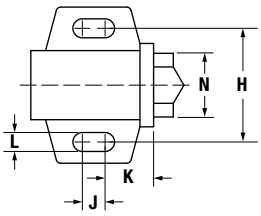
SAMPLES

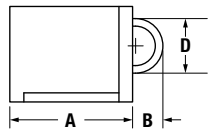
We are always happy to provide samples for you to test in your prototype and concept builds. Call us for your samples today.

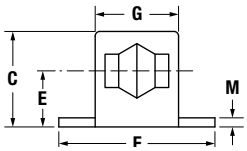
- **Smooth action for panel doors.**
- **Non-corrosive, non-conductive.**
- **3 sizes.**

ROLLER CATCHES

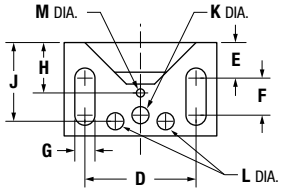
Catch Design

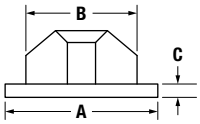


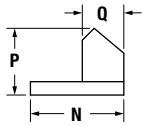




Keeper Design







- **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

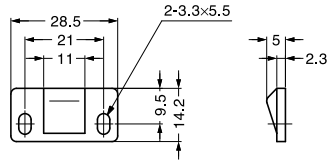
Catch Dimensions

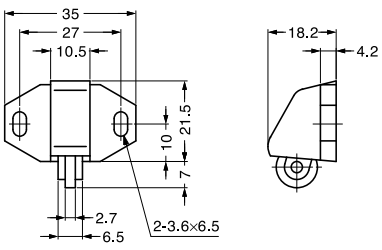
SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N
SMALL	.81"	.2"	.63"	.36"	.37"	1.03"	.55"	.75"	.15"	.32"	.13"	.06"	.42"
MEDIUM	1.19"	.3"	.87"	.53"	.53"	1.38"	.72"	1.00"	.22"	.48"	.15"	.10"	.60"

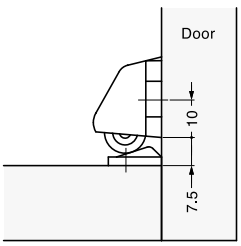
For detailed material specifications plus product installation instructions.
www.clancey.com

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

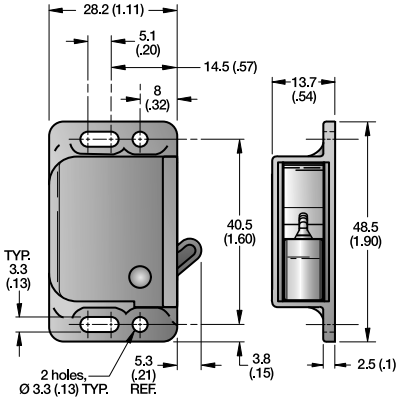
PART NUMBER	COLOR
C882W	White
C882BR	Brown

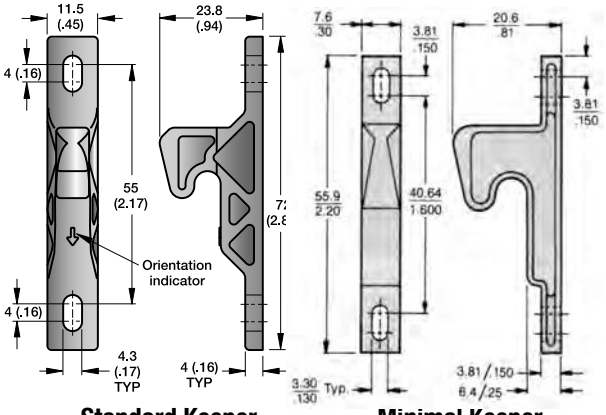


GRABBER™ CATCH, SIDE MOUNT STYLE

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







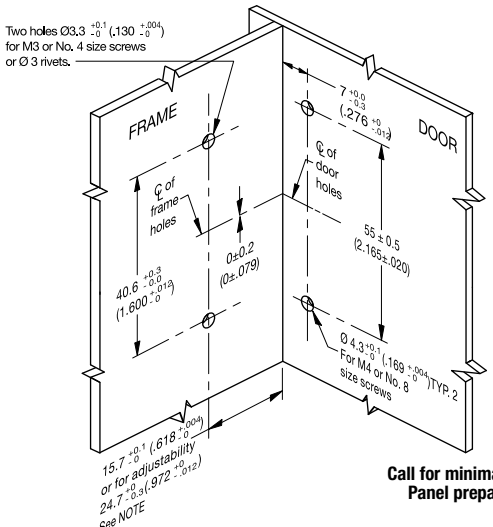
Standard Keeper **Minimal Keeper**

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

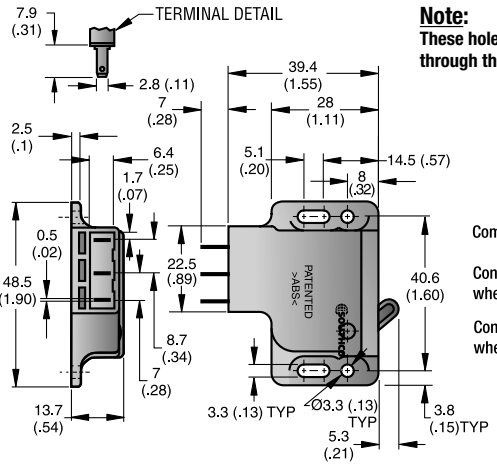
PANEL PREPARATION - Standard Keeper



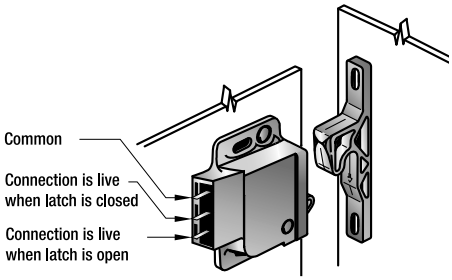
Call for minimal keeper Panel preparation

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.



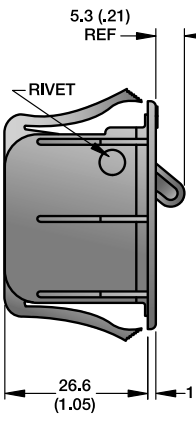
Approximate Pull-up force	PART NUMBERS
13 N (3 lbs.)	**C3-1803**
22 N (5 lbs.)	**C3-1805**
44 N (10 Lbs.)	**C3-1810**

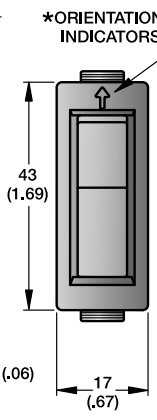
NOTES: **Uses standard keeper illustrated above.**
Not to be used as a safety interlock device.

- Catch snaps into frame.
- Fits into frames from 1.1 mm (.043") to 7 mm (.276") thick.
- Choice of three pull-up forces.

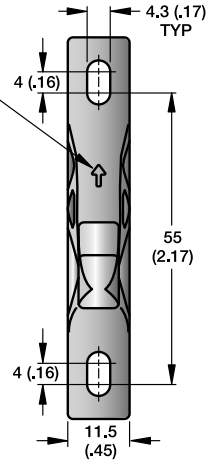
GRABBER™ CATCH, SNAP-IN STYLE

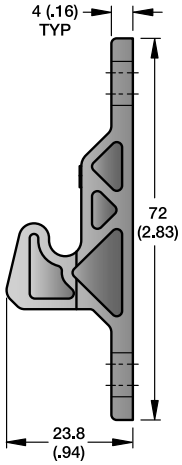
CATCH

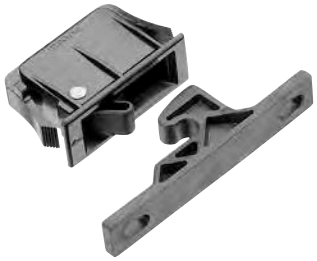




KEEPER

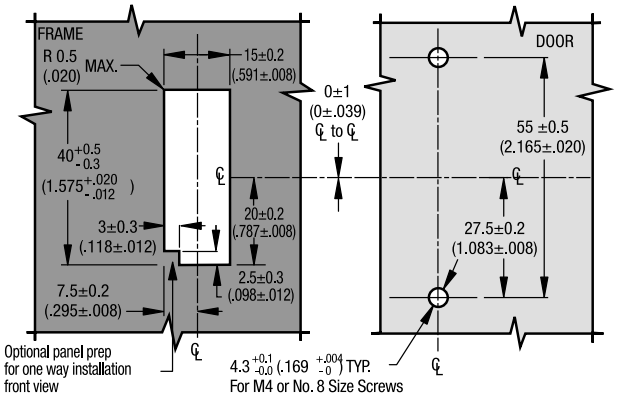


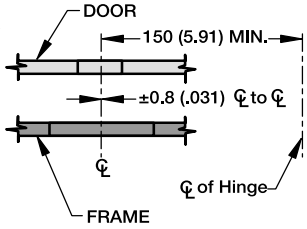




Approx. Pull-up Force	PART NUMBERS		
	Panel Thickness Range		
	1.1 (0.43) - 2.9 (.114)	2.9 (.114) - 5.3 (.209)	5.3 (.209) - 7 (.276)
13 N (3.0 lbs.)	C3-303	C3-503	C3-703
22 N (5.0 lbs.)	C3-305	C3-505	C3-705
44 N (10.0 lbs.)	C3-310	C3-510	C3-710

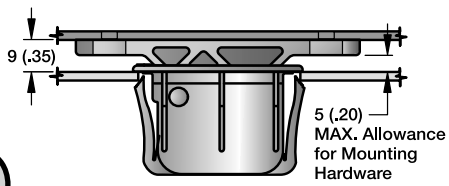
PANEL PREPARATION





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

LATCHED



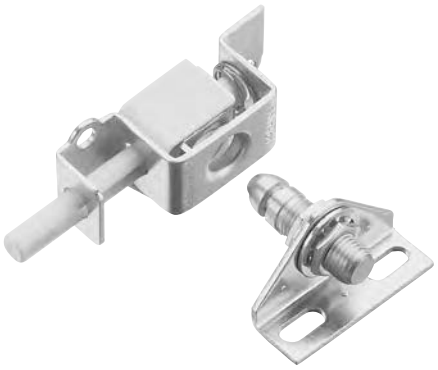
MODIFICATIONS

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

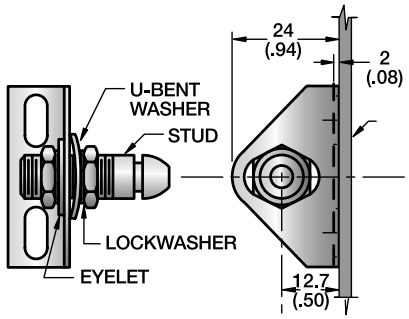
MULTI-POINT LATCHING

- **Push button to unlatch.**
- **Designed for near edge applications.**
- **Floating keeper assists alignment.**
- **Can be used in remote or multi-point latching applications.**

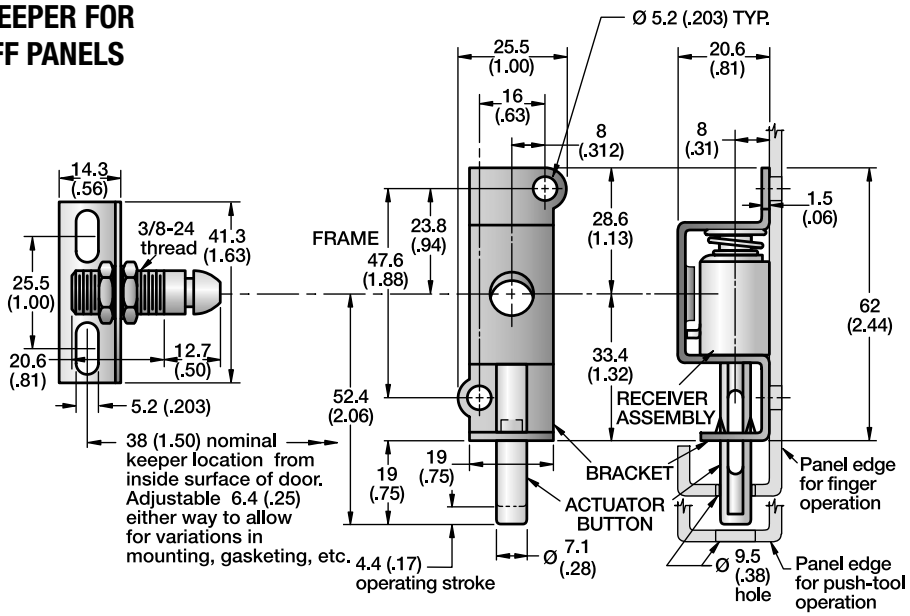


KEEPER STYLE	ASSEMBLY PART NUMBERS
Fixed keeper	**E2-50-101-10**
Floating keeper	**E2-50-101-20**

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

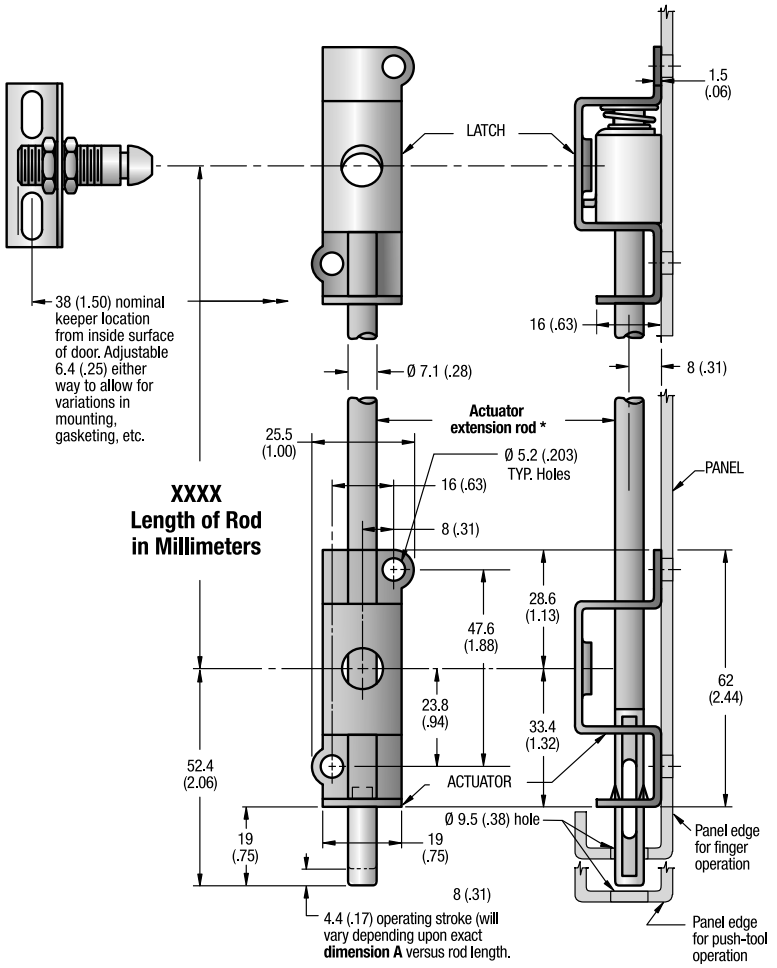
2) Determine rod length required (see diagram).

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



CAD POWERED

SOUTHCO SOLUTIONS ARE "CAD POWERED" AT WWW.CLANCEY.COM

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

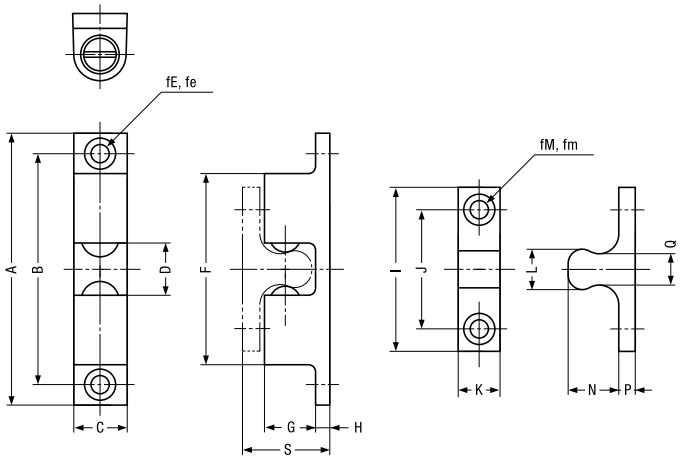


50 SERIES



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

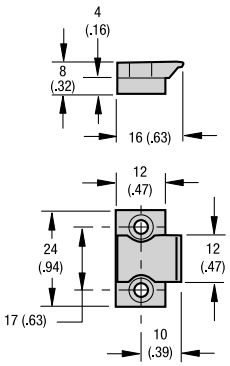
Part Number	A	B	C	D	E	F	G	H	I	J	K	L	M	m
BCTS-40	43 (1.69")	35 (1.38")	8 (.315")	28.4 (1.12")	10 (.394")	2.5 (.098")	25 (.984")	16 (.630")	7.5 (.295")	8.5 (.335")	2.5 (.098")	13.5 (.531")	3.2 (.126")	6.2 (.244")
BCTS-50	50 (1.97")	40 (1.58")	10 (.394")	31.5 (1.24")	12.2 (.480")	2.9 (.114")	30 (1.18")	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.

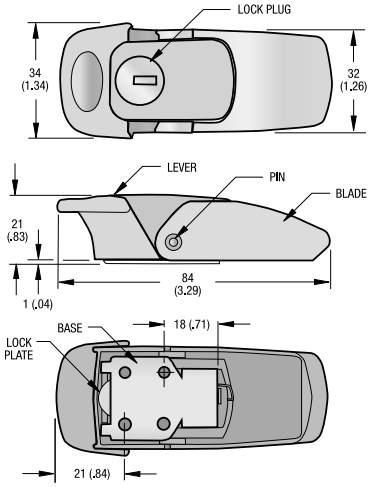
DESIGNER SERIES OVER CENTER LATCH

STANDARD SIZE

KEEPER



LATCH



Now available in stainless steel, please call.



Satin chrome, non-locking



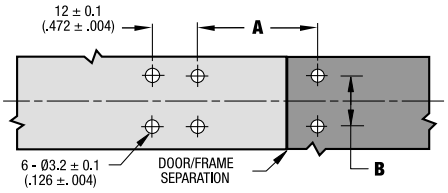
STAINLESS AVAILABLE

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)

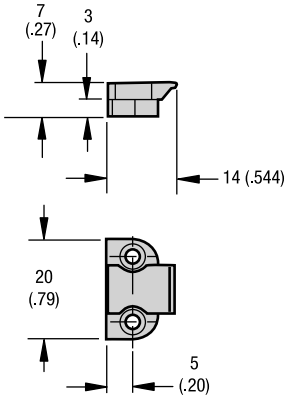


Size	A	B
Standard	35.5 ± 0.1 (1.398" ± .004")	16 ± .01 (.630" ± .004")
Miniature	30 ± 0.1 (1.181" ± .004")	12 ± .01 (4.72" ± .004")

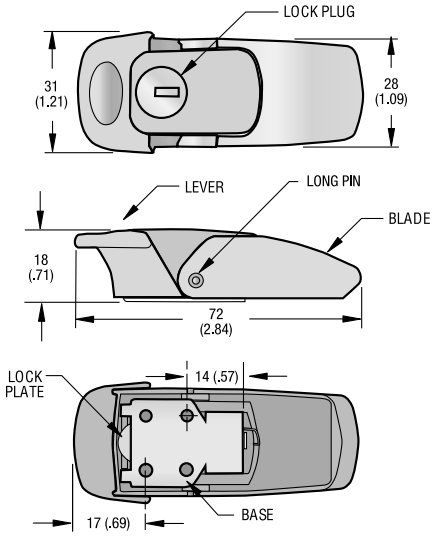
- Friction drag feature for one hand operation.

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.

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

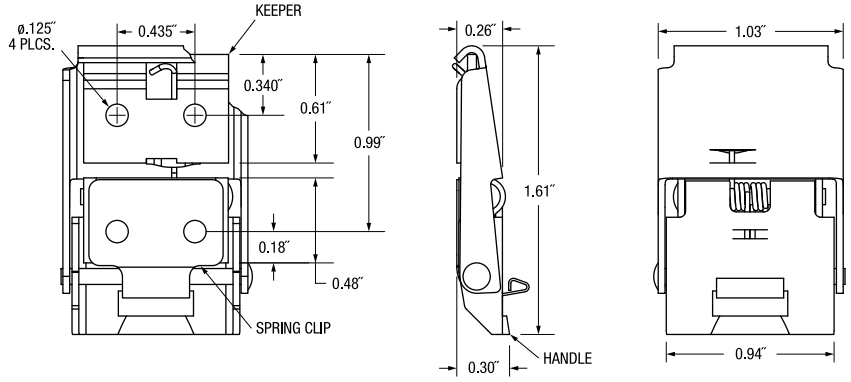
ENCLOSED OVER-CENTER LATCH, COMPACT

- Secondary catch prevents inadvertent release.
- Compact size, clean design – no exposed hardware.
- Spring assisted opening.

STAINLESS

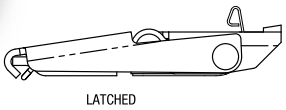


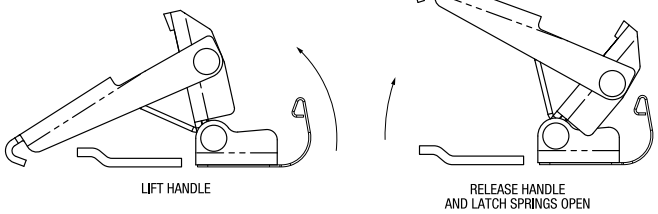
PART NUMBER
V7-30-302-50



Material: Stainless steel. **Load:** 150 lbs.

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

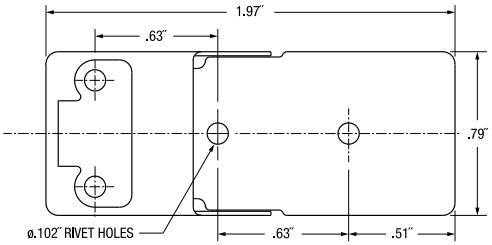


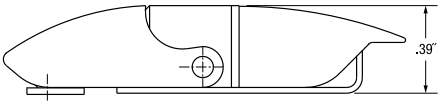


ENCLOSED OVER-CENTER LATCH, CHROME PLATED

- Clean design – no exposed hardware.
- Attractive chrome finish.





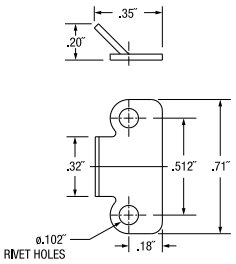


Material: Cold rolled steel, chrome finish. **Load:** 45 lbs.

PART NUMBER	
Latch	Keeper
V7-40-201-10	V7-47-201-10

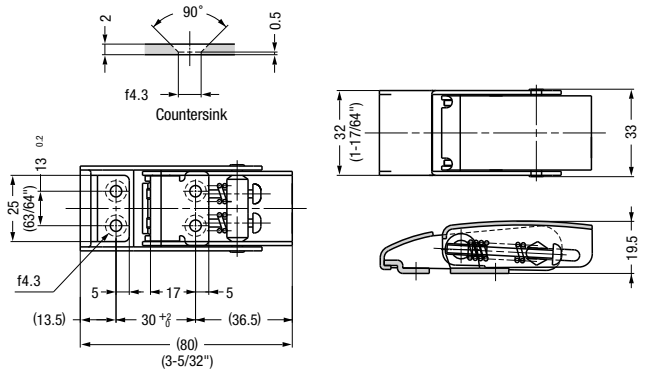
Keeper

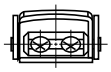




- **Internal spring tensions the latch to resist vibration.**
- **Clean design - no exposed hardware.**

ENCLOSED OVER-CENTER LATCH SPRING LOADED – STANDARD SIZE





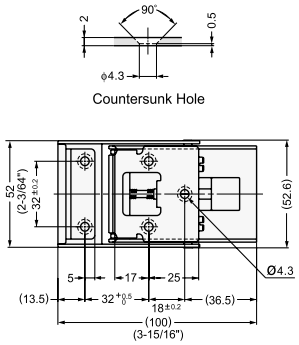


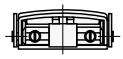
Material: 304 stainless steel **Load**: 176 lbs.

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.

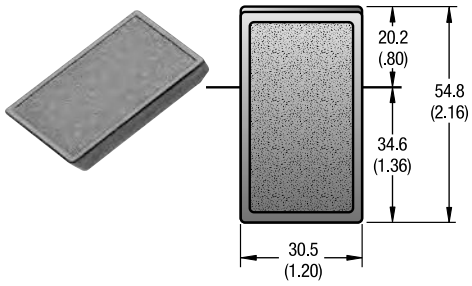
PART NUMBER
STF-100

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).

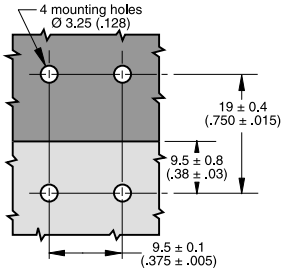


Material:
Polypropelene

Flammability rating:
UL94-HB

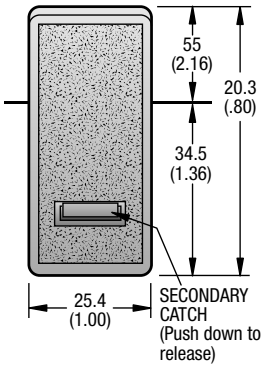
PART NUMBER	
White	07-10-201-11
Black	07-10-201-12

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.

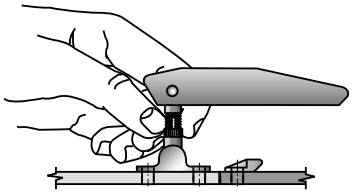
ADJUSTABLE STYLE

- **Adjustable grip range/latching force.**
- **Non-corrosive materials.**
- **Mounting hardware is concealed.**

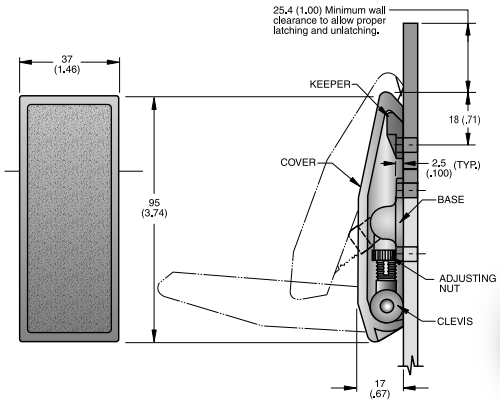
NON-CORROSIVE



PART NUMBER
E8-10-502-20



To adjust latching force, thread adjustment nut up or down clevis (total 7.9 mm or .31" range).

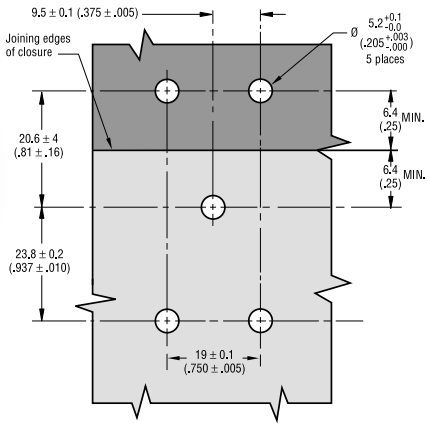


For detailed material specifications plus product installation instructions.

www.clancey.com

PANEL PREPARATION

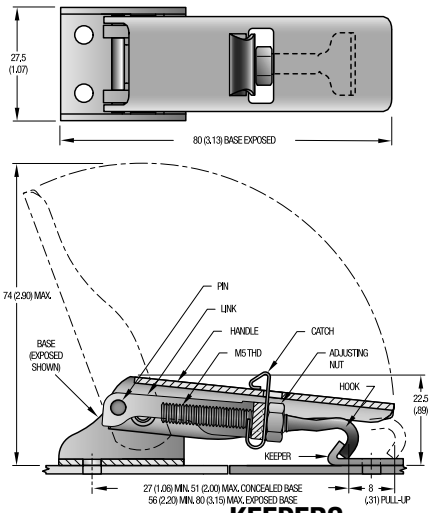
Mount with M5 or No. 10 screws or 3/16" diameter rivets.



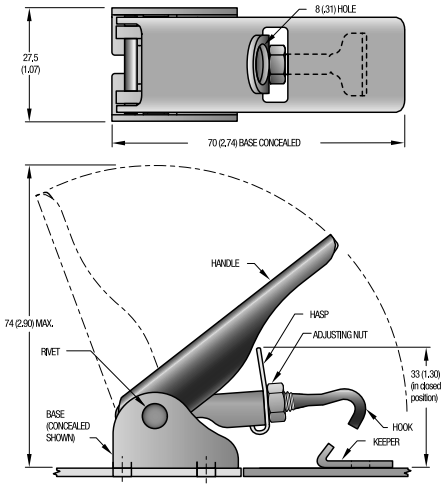
- Can securely latch out of plane applications.
- Kickout feature moves unlatched hook from keeper.
- Adjustable latch hook.
- Black stainless available (plain handle only).

UNDER-CENTER SERIES

LATCH – SECONDARY CATCH OPTION (shown with exposed base + keepers)



LATCH – PADLOCK HASP OPTION (shown with concealed base + exposed keepers)



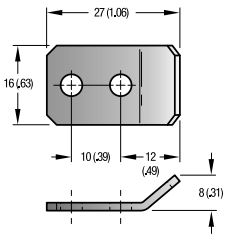


padlock hasp (shown)

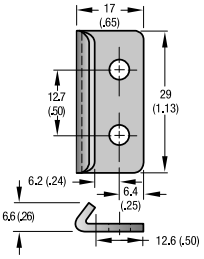
For detailed material specifications plus product installation instructions.
www.clancey.com

KEEPERS

CONCEALED

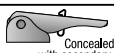
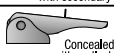
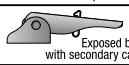
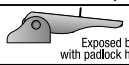


EXPOSED



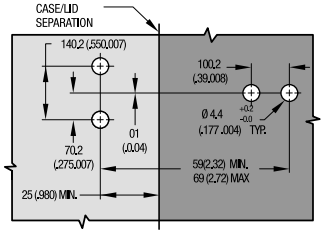
Finish	KEEPER PART NUMBERS	
	(Concealed)	(Exposed)
steel, zinc palte	91-600-07	K4-2338-07
stainless steel, bright	91-600-52	K4-2338-52
stainless steel, black	91-600-63	K4-2338-63

Note: Order latch and keeper separately.

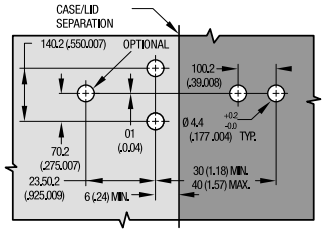
Style	Finish	LATCH PART NUMBERS
 Concealed base	Steel, zinc plate	91-512-07
	Stainless steel, black	91-512-25
	Stainless steel, bright	91-512-52
 Concealed base with secondary catch	Steel, zinc plate	91-522-07
	Stainless steel, bright	91-522-52
 Concealed base with padlock hasp	Steel, zinc plate	91-532-07
	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

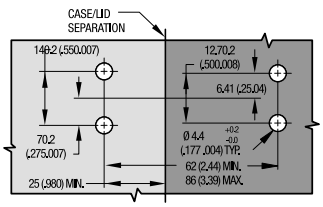
Exposed Base Latch – Concealed Keeper



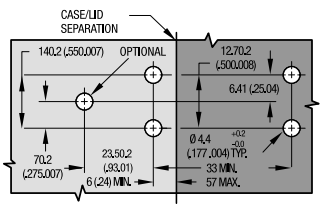
Concealed Base Latch – Concealed Keeper



Exposed Base Latch – Exposed Keeper



Concealed Base Latch – Exposed Keeper



CAD POWERED

SPRING LOADED DRAW LATCHES

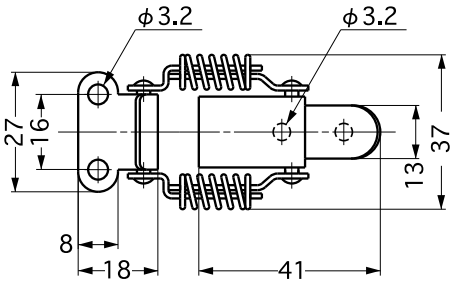
- Spring loaded design compensates for tolerance and vibration.
- Non-corrosive.

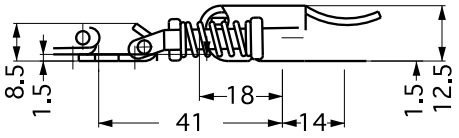
STAINLESS

COMPACT

- 304 stainless steel, satin finish.





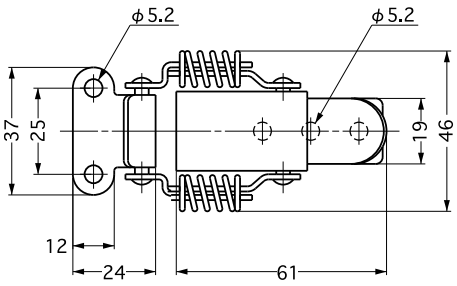


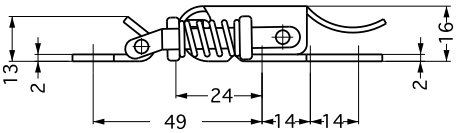
PART NUMBER
SCC-40

STANDARD

- 304 stainless.



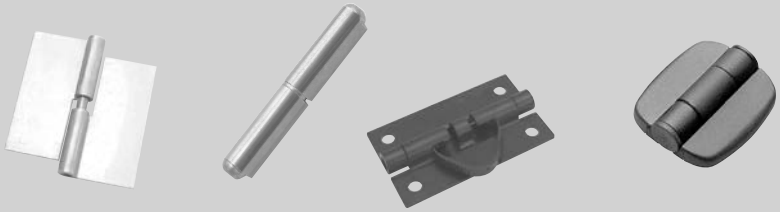




PART NUMBER
SCC-60

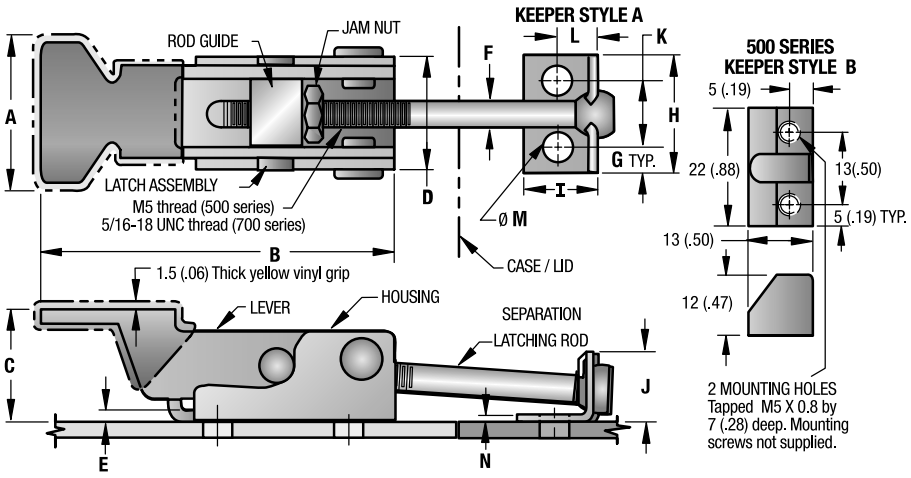
HINGES

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



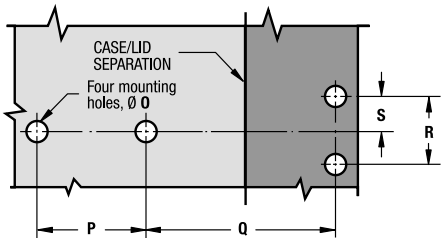


KEEPER STYLE	PART NUMBERS	
	Steel, zinc plated	Stainless steel, passivated
Small Size without **yellow** vinyl grip		
A	A1-10-501-10	A1-10-501-40
B	A1-10-503-10	———
Small Size with **yellow** vinyl grip		
A	A1-10-501-20	A1-10-501-50
B	A1-10-503-20	———
Medium Size without **yellow** vinyl grip		
A	A1-10-701-10	A1-10-701-40
Medium Size with **yellow** vinyl grip		
A	A1-10-701-20	A1-10-701-50

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)

PANEL PREPARATION



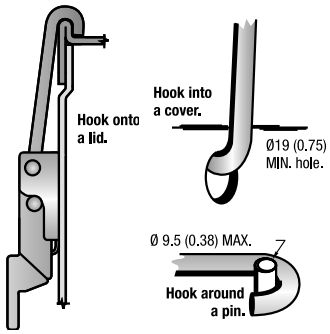
ADJUSTABLE SERIES HOOKED LATCHING ROD

- **Base dimensions are the same as ball-end latching rod above.**
- **Visit www.clancey.com for specific dimensional details on the 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.

www.clancey.com

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

VERSA LATCH® SERIES

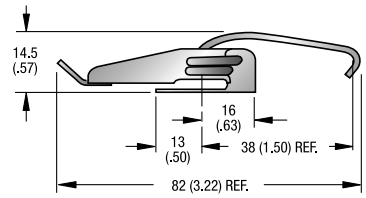
- **Torsion springs compensate up to 2.3 mm (.09") for misalignment.**
- **Padlockable and wire sealed versions for security.**
- **Economical, solution.**

STAINLESS STEEL AVAILABLE

SHORT BLADE



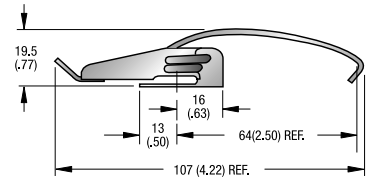
MATERIAL	PART NUMBER
Steel	V2-0025-07
Stainless Steel	V2-0025-52
MINIMUM	MAXIMUM
55 (2.17")	57.3 (2.26")



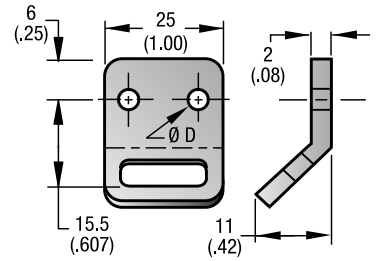
LONG BLADE



MATERIAL	PART NUMBER
Steel	V2-0068-07
"S" DIMENSION	
MINIMUM	MAXIMUM
80.7 (3.17")	83 (3.26")



KEEPERS – ALL MODELS

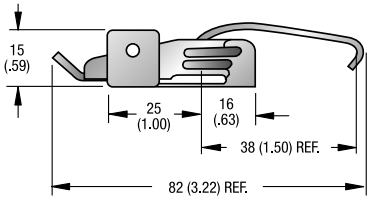


ø D	STEEL	STAINLESS STEEL
3.4 (.135)	V2-0018-07	V2-0018-52
5.5 (.218)	V2-0054-07	V2-0054-52

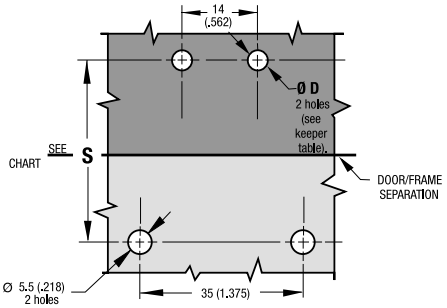
WIRE SEALING



MATERIAL	PART NUMBER
Steel	V2-0034-07
Stainless Steel	V2-0034-52
"S" DIMENSION	
MINIMUM	MAXIMUM
55 (2.17")	57.3 (2.26")



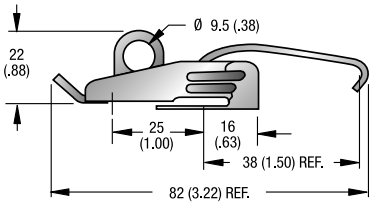
PANEL PREPARATION



PADLOCKABLE



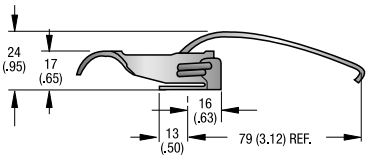
MATERIAL	PART NUMBER
Steel	V2-0026-07
Stainless Steel	V2-0026-52
MINIMUM	MAXIMUM
55 (2.17")	57.3 (2.26")



MEDIUM SIZE LONG BLADE



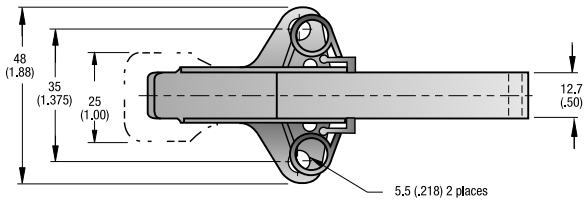
MATERIAL	PART NUMBER
Steel	V2-0072-07
"S" DIMENSION	
MINIMUM	MAXIMUM
96.7 (3.80")	99 (3.90")



For detailed material specifications plus product installation instructions.

www.clancey.com

DIMENSION DRAWING – TOP VIEW – ALL MODELS



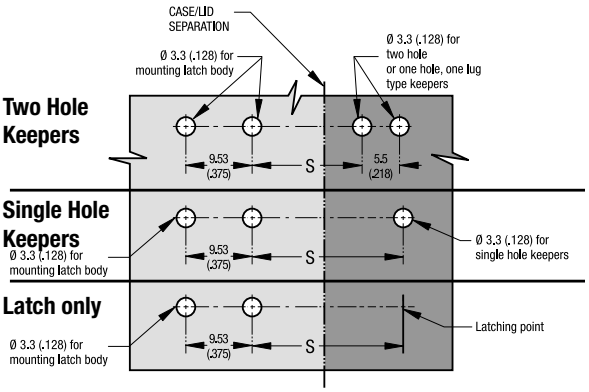
- Steel or stainless steel.
- Variety of keeper styles.

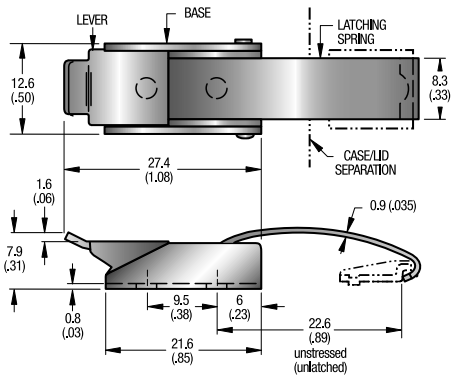
OVER-CENTER SERIES SMALL SIZE

STAINLESS STEEL AVAILABLE

PANEL PREPARATION

Mount latches and keepers with M3 (No. 4) screws.
For button type keeper, use a countersunk head screw.





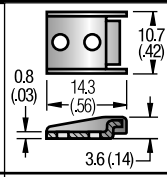
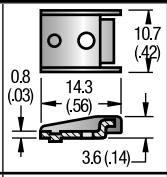
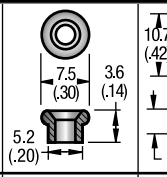
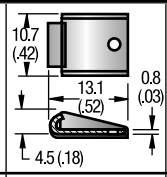
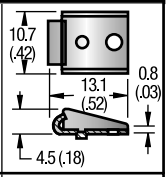


NSF

Note: Order latch and keeper separately.

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

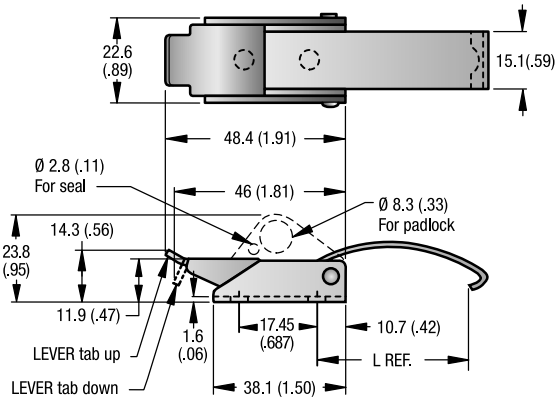


Zinc plated w/secondary catch.

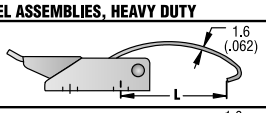
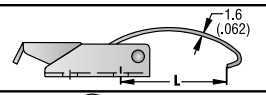
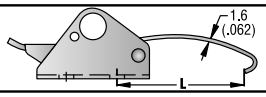
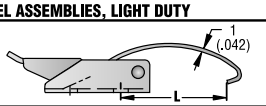
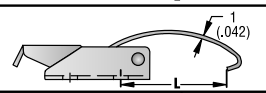
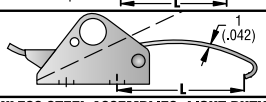
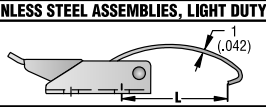
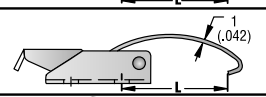
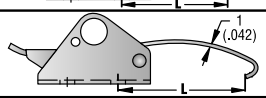


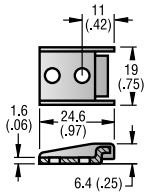
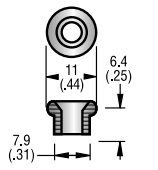
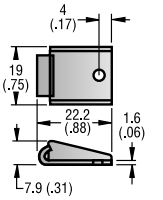
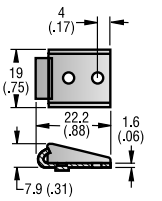
Black powder coat w/padlock hasp

- 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	LATCHING SPRING 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

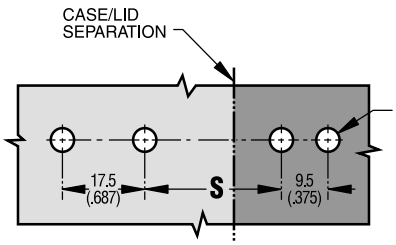
KEEPER PART NUMBERS	
	97-57-103-11
	97-57-105-11
	97-57-104-11
	97-57-102-11

* Visit www.clancey.com for detailed material and strength information.

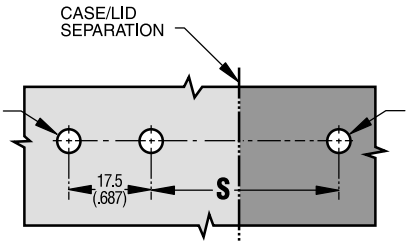
PANEL PREPARATION (over-center series, medium size)

- **Mount latches and keepers with M4, No. 8 screws or 5/32" rivets. For button keepers use a countersunk head screw.**

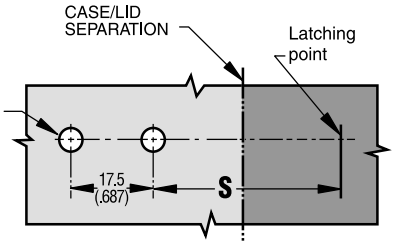
TWO HOLE KEEPERS



SINGLE HOLE KEEPERS

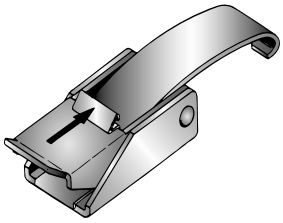


LATCH ONLY



OPTIONAL FEATURE
(over center series, medium size)

SECONDARY CATCH



- **Resists vibration.**
- **Prevents inadvertent release.**

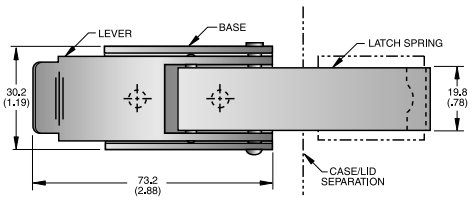
LATCHING SPRING LENGTH	DIMENSION S – according to keeper style				
					LATCH ONLY (NO KEEPER)
SHORT	15.9 (.63)	29.4 (1.16)	47.6 (1.88)	38.1 (1.50)	31.2 (1.23)
MEDIUM	28.6 (1.13)	42.1 (1.66)	60.3 (2.38)	50.8 (2.00)	43.9 (1.73)
LONG	41.3 (1.63)	54.8 (2.16)	73.0 (2.88)	63.5 (2.50)	56.6 (2.23)

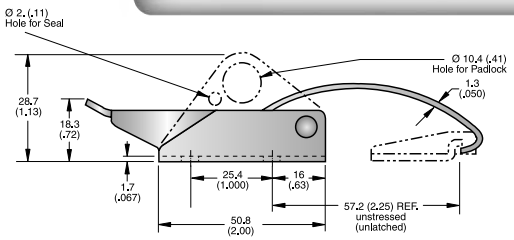
To order secondary catch:
Change the next-to-last digit of the part number on page 138 from 1 to **2**.
Example: 97-50-XXX-**2**X

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.**

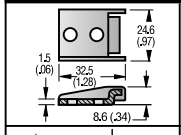
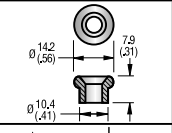
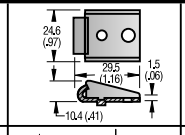
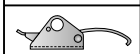
OVER-CENTER SERIES, LARGE SIZE







- **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.**

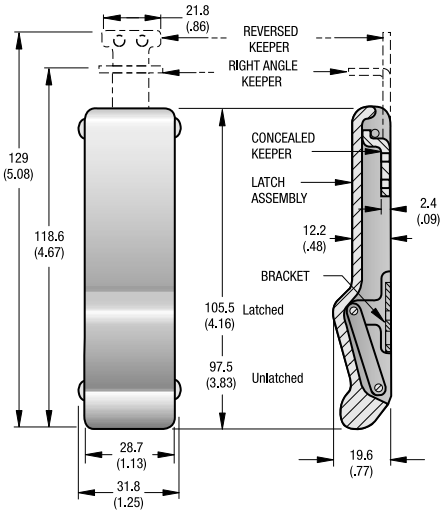
SOFT LATCH® - SMALL SIZE

- **Elastomer body absorbs vibration, cushions impact and tolerates misalignment.**
- **3 keeper configurations.**
- **Stainless steel brackets and keepers.**

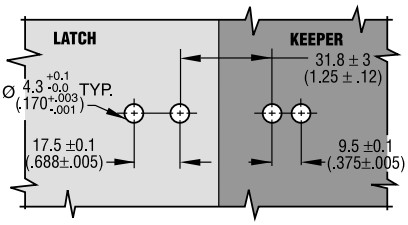
NON-CORROSIVE



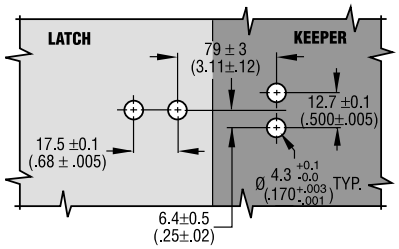
Keeper Style	ASSEMBLY PART NUMBER
Concealed	C7-10
Reverse Keeper	C7-11
Right Angle Keeper	C7-12



PANEL PREPARATION



PANEL PREPARATION
For Reversed Keeper

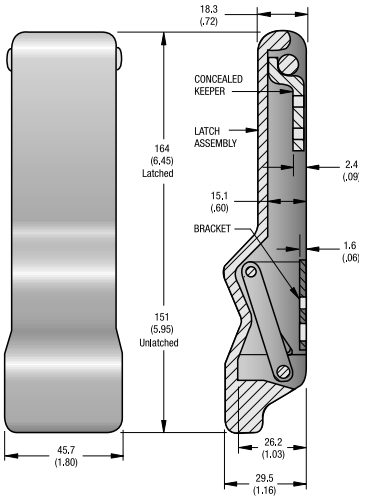


SOFT LATCH® - LARGE SIZE

NON-CORROSIVE

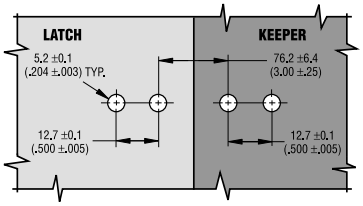


ASSEMBLY PART NUMBER
C7-20



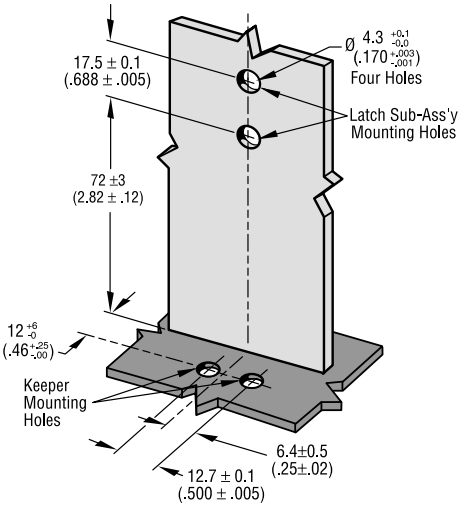
- **Same great features in a larger size.**
- **Ideal for outdoor applications subject to vibration.**
- **Additional options available.**

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.

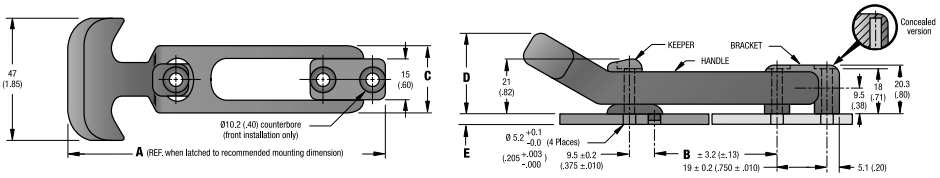
For detailed material specifications plus product installation instructions.

www.clancey.com

FLEXIBLE T-HANDLE STYLE

- **Non-corrosive UV resistant materials.**
- **Compensates for misalignment in three planes.**
- **Absorbs vibration.**
- **3 lengths, front or concealed mounting.**

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.

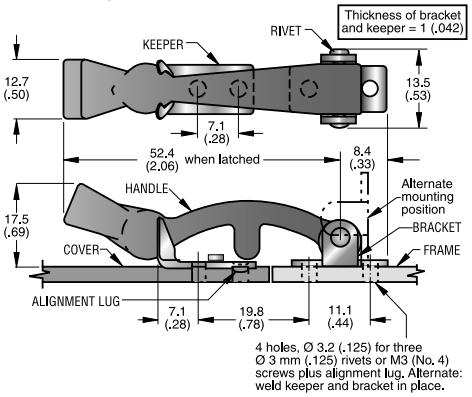
- **Refer to above drawing and table for panel preparation.**

TAB-HANDLE STYLE

- **Absorbs vibration.**
- **Steel or stainless steel mounting hardware.**

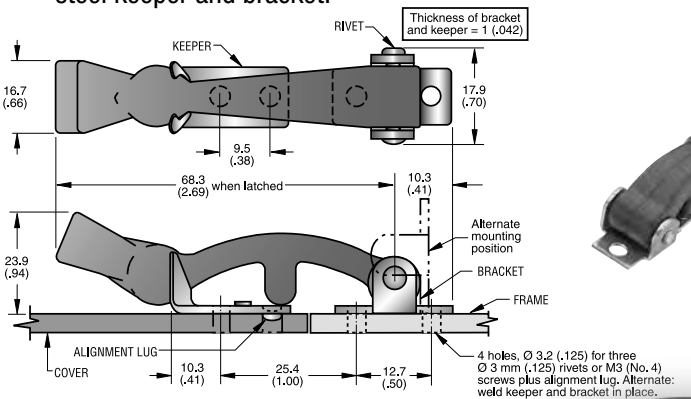
STAINLESS STEEL AVAILABLE

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

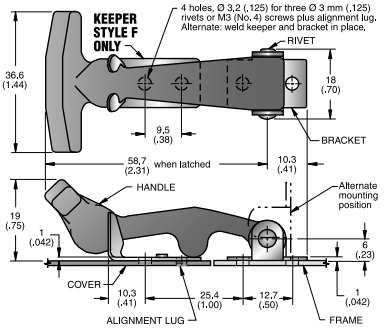
T-HANDLE SERIES

- **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



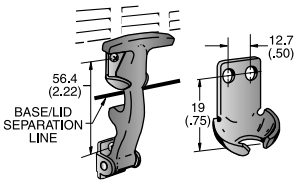
PART NUMBERS	
Steel Base and Keeper	Stainless Steel Base and Keeper
37-10-065-10	**37-10-65-20**



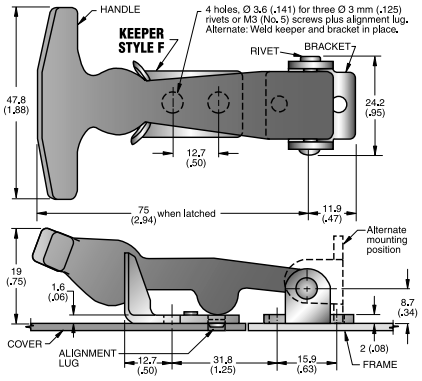
MEDIUM SIZE



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**

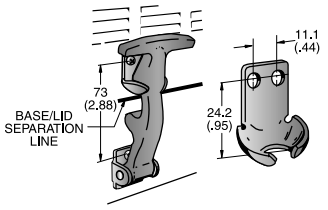


- **This latch can be ordered unassembled.** Change -071- to -072- (steel only).

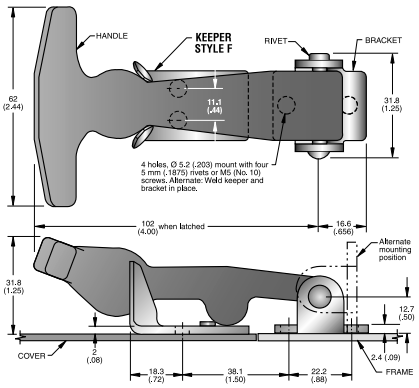
LARGE SIZE



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**



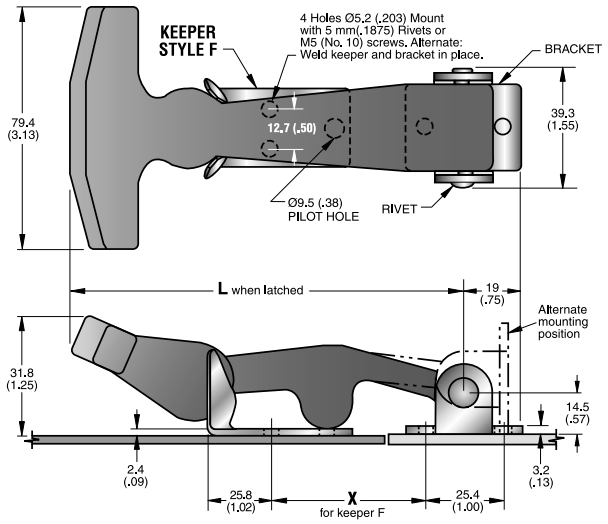
- **This latch can be ordered unassembled.** Change -086- to -087- (steel only).

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)

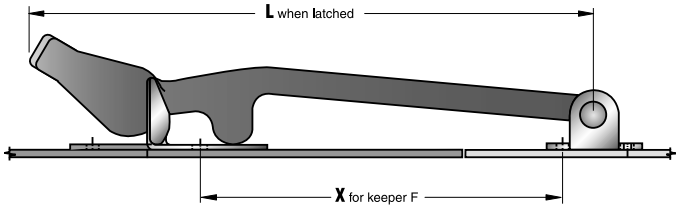


EXTRA - LARGE SIZE

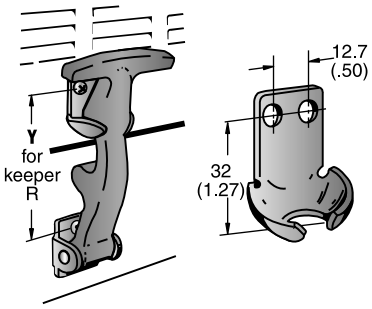


STANDARD LENGTH 100 SERIES (pictured)

130 SERIES EXTENDED LENGTH



KEEPER STYLE R



For detailed material specifications plus product installation instructions.

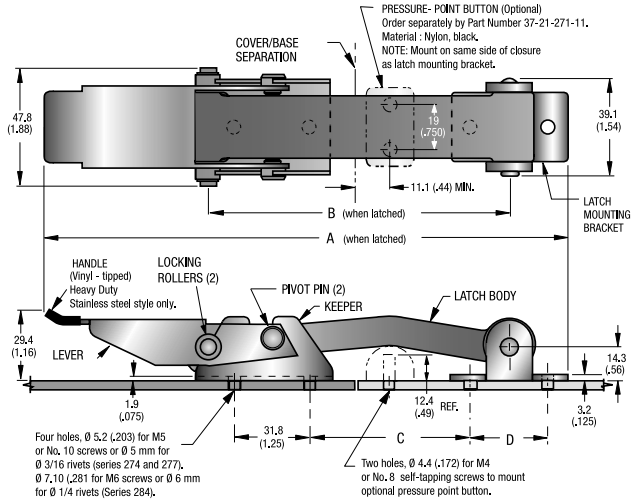
www.clancey.com

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 •

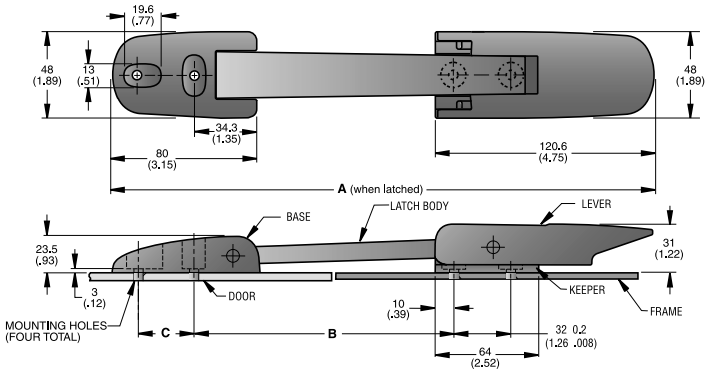
OPTIONAL PRESSURE BUTTON
37-21-271-11

AEROLATCH™ LEVER ASSISTED STYLE

NON-CORROSIVE

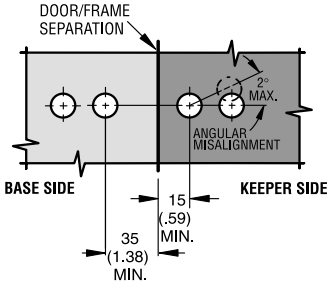
- **For heavy duty applications.**
- **Non-corrosive, UV-stable materials.**
- **Absorbs vibration.**





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)

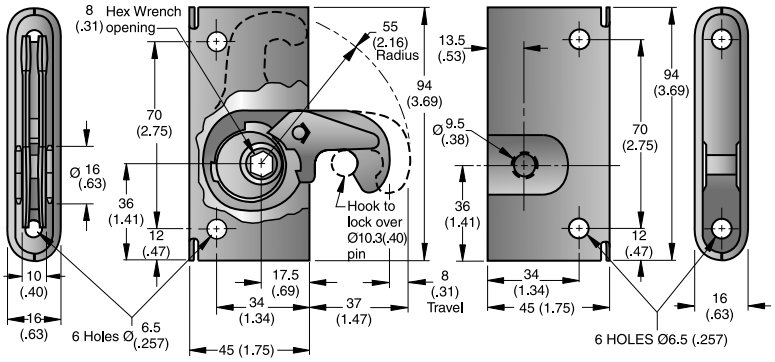
8mm Hex Wrench
29-0059-02

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

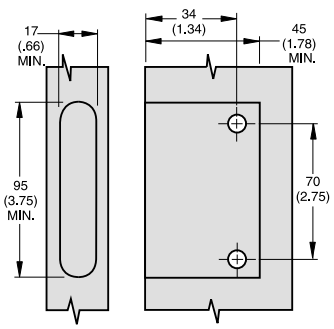




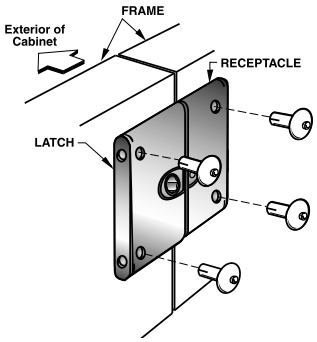
PART NUMBERS	
Latch	Receptacle
R5-0074-08	R5-0079-08

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

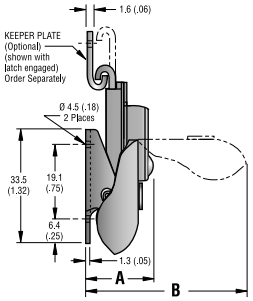
- **Sleek appearance.**
- **Steel (with black finish) or stainless steel (bright).**

STAINLESS STEEL AVAILABLE



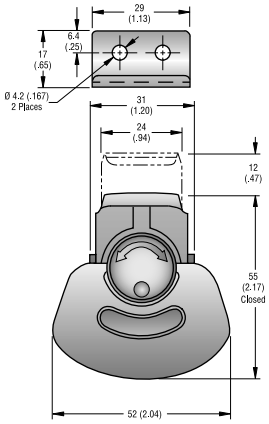
CONCEALED SPRING LOADED VERSION

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.

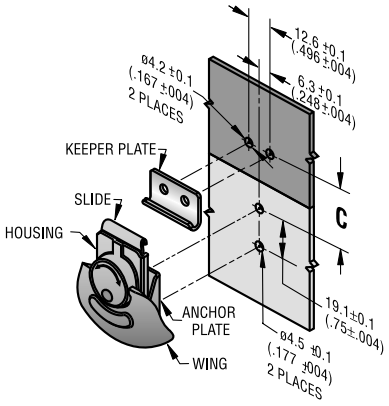


FIXED VERSION

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

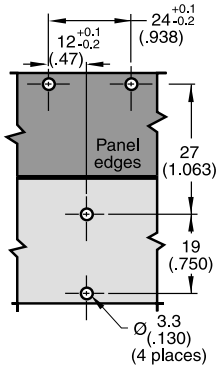
- **For applications where misalignment is not a concern.**

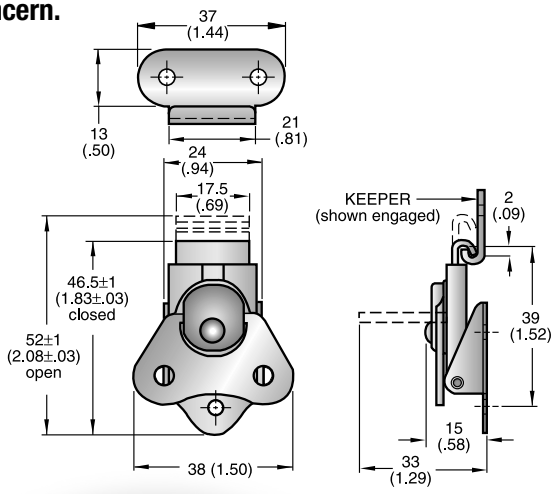
STAINLESS STEEL AVAILABLE



RIVETED STYLE PART NUMBERS		
Type	Steel	Stainless Steel
Latch	K3-1625-07	K3-1625-52
Keeper	K3-0334-07	K3-0334-52

PANEL PREPARATION





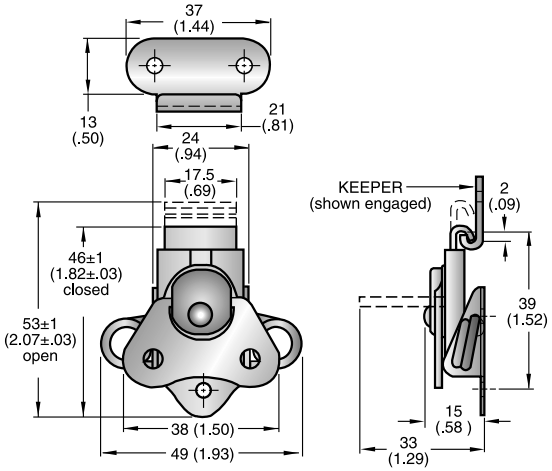
For detailed material specifications plus product installation instructions.

www.clancey.com

Many blade (slide) modifications are tooled and available. Please call for assistance.

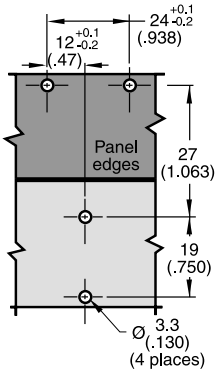
800-747-7405

- **Spring loaded anchor plate compensates up to 4 mm (.156") for misalignment.**



LINK LOCK® ROTARY ACTION LATCH SMALL SIZE-SPRING LOADED

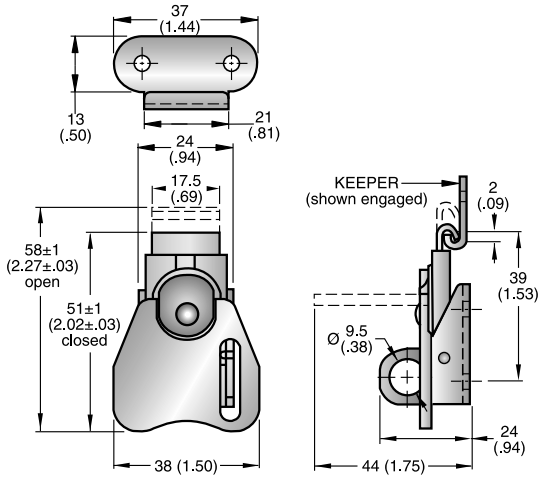
PANEL PREPARATION





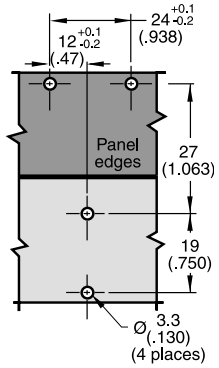
SPRING LOADED STYLE PART NUMBERS		
Type	Steel	Stainless Steel
Latch	K3-1735-07	K3-1735-52
Keeper	K3-0334-07	K3-0334-52

- **Security lock-out option.**



LINK LOCK® ROTARY ACTION LATCH SMALL SIZE-PADLOCKABLE

PANEL PREPARATION



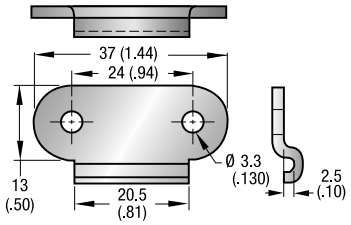


PAD-LOCKABLE STYLE PART NUMBERS		
Type	Steel	Stainless Steel
Latch	K3-2403-07	K3-2403-52
Keeper	K3-0334-07	K3-0334-52

ADDITIONAL KEEPER PLATE OPTIONS (for small size link locks)

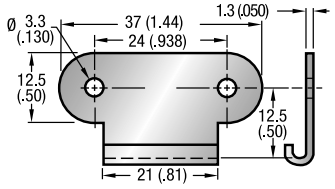
Right Angle Keeper

MATERIAL	PART NUMBER
Steel	K3-0100-07
Stainless Steel	K3-0100-52



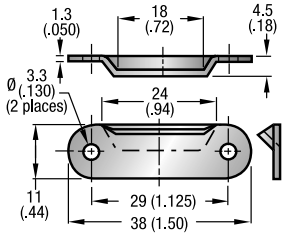
Elongated Keeper

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

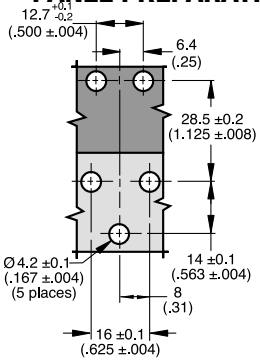
- **For applications where misalignment is not a concern.**

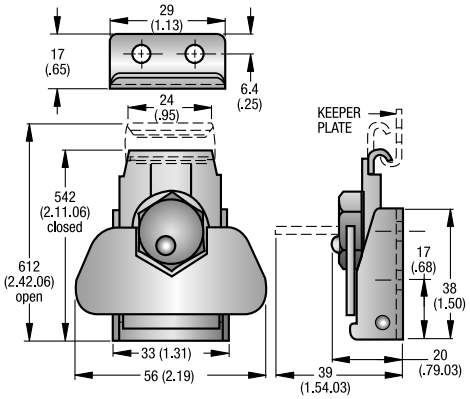


Material: Steel
Finish: Zinc plated, plus bright chromate dip.

PART NUMBERS	
Latch	K4-2714-07
Keeper	K4-2338-07

PANEL PREPARATION





LINK LOCK® ROTARY ACTION DRAW LATCH MEDIUM SIZE-SPRING LOADED

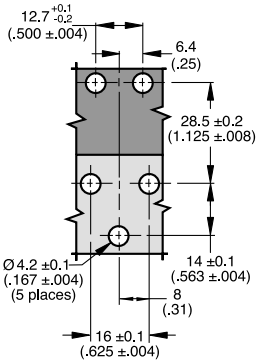
- **Spring loaded anchor plate compensates up to 4mm for misalignment.**

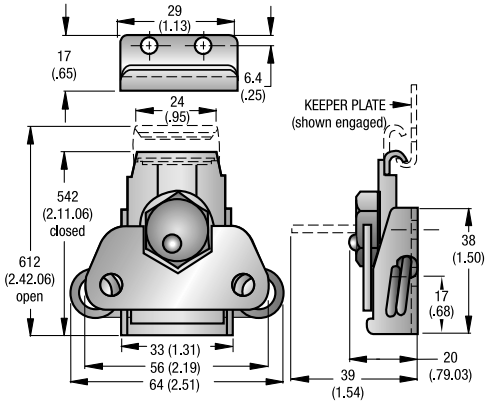


Material: Steel
Finish: Zinc plated, plus bright chromate dip.

PART NUMBERS	
Latch	K4-2359-07
Keeper	K4-2338-07

PANEL PREPARATION





LINK LOCK® ROTARY ACTION DRAW LATCH MEDIUM SIZE-KEY-LOCKING

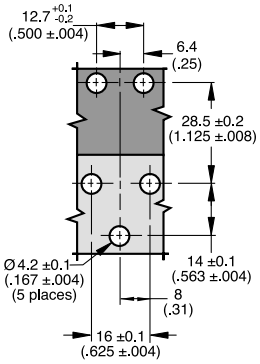
- **Keyed alike, custom keycodes available.**
- **Supplied with two keys.**

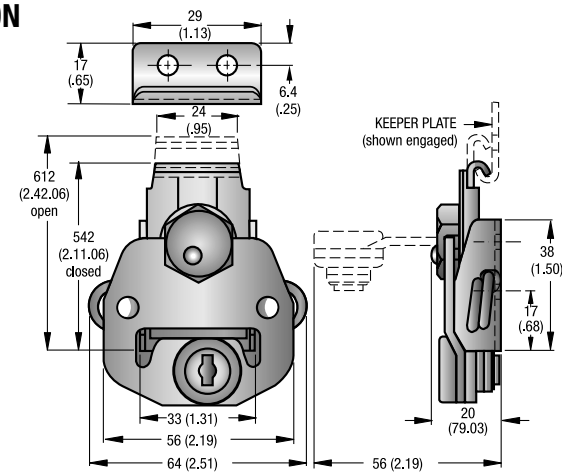


Material: Steel
Finish: Zinc plated, plus bright chromate dip.

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

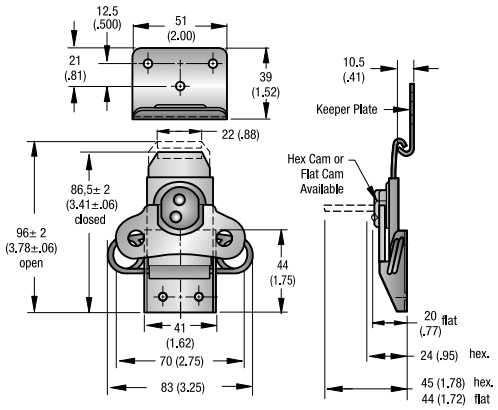
STAINLESS STEEL AVAILABLE



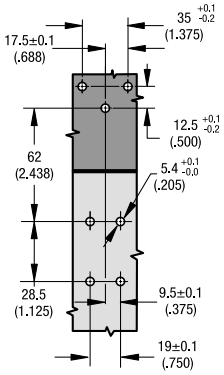
- Flat cam shown in drawing and photo.

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

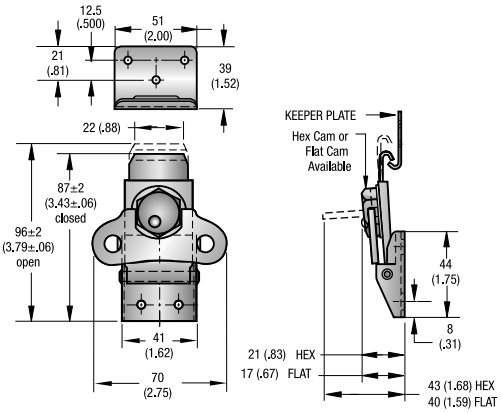
STAINLESS STEEL AVAILABLE

- Hex cam shown in drawing and photo.

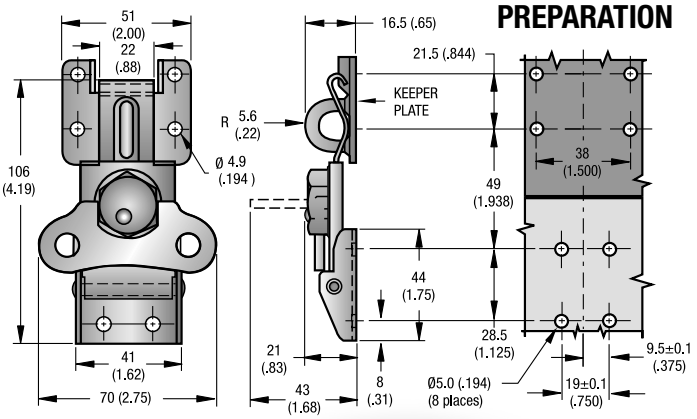


LATCH TYPE	PART NUMBERS	
	Steel	Stainless Steel
Hex Cam	K5-2812-07	————
Flat Cam	K5-2857-07	K5-2857-52
Keeper Plate	K5-2811-07	K5-2811-52

- 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

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

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.



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

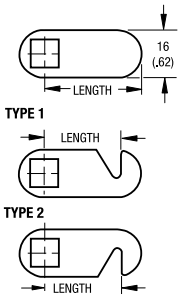
- **Shuttered.**
- **Non-shuttered.**
- **Tool driven.**



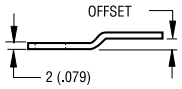
- **Master keyed.**
- **Removal keys.**
- **Keyed alike.**
- **Keyed differently.**
- **Groups of 10, 50, or 125 codes.**

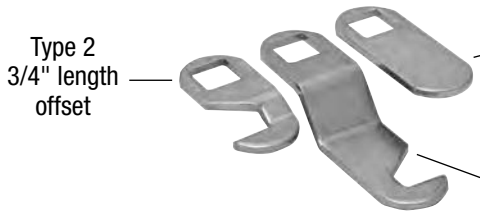
LOCK CAMS

- **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 #

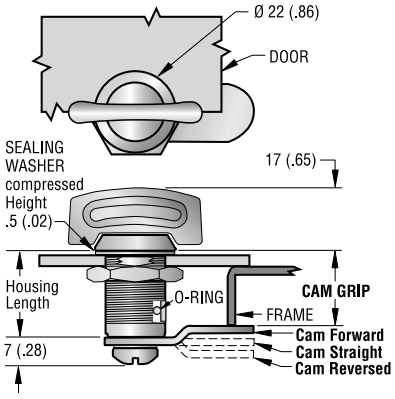
CAM TYPE
C = No hook
H = Hook, Type 1
L = Hook, Type 2

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



CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

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)**

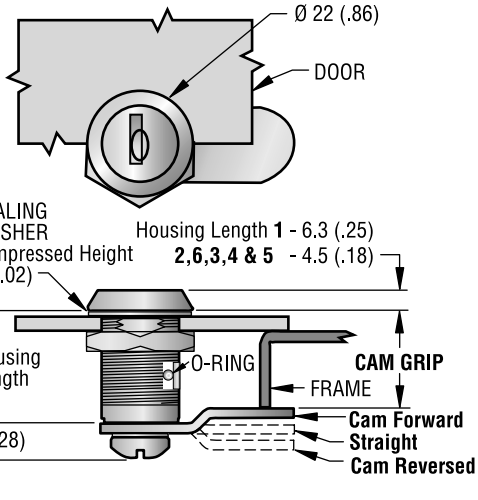
CM-2

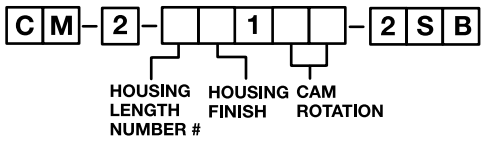
Black Housing



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)

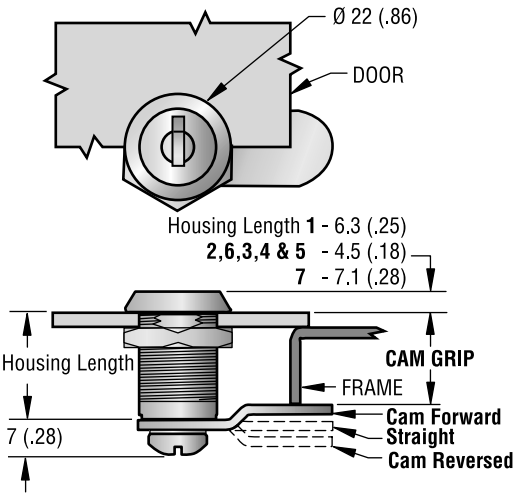
HOUSING FINISH
B = Black powder coated
C = Chrome plated

CAM ROTATION
(see facing page)
01 = Clockwise
09 = Counter-clockwise

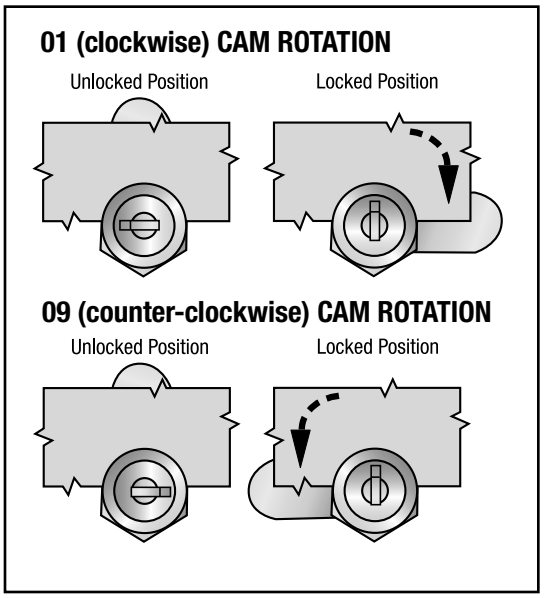
LOCK PLUG BODY and MOUNTING NUT: Die-cast zinc, bright chromate
HOUSING: Die-cast zinc, bright chromate and black power coated head or chrome plated head
SCREW with LOCKWASHER and STOP WASHER: Steel, zinc plate, bright chromate
O-RING: Nitrile, black
SEALING WASHER: Rubber, black
LOCKING SCALP: Stainless, 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

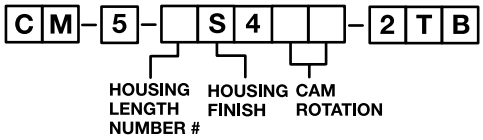
- **Cams sold separately (See page 153)**

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)

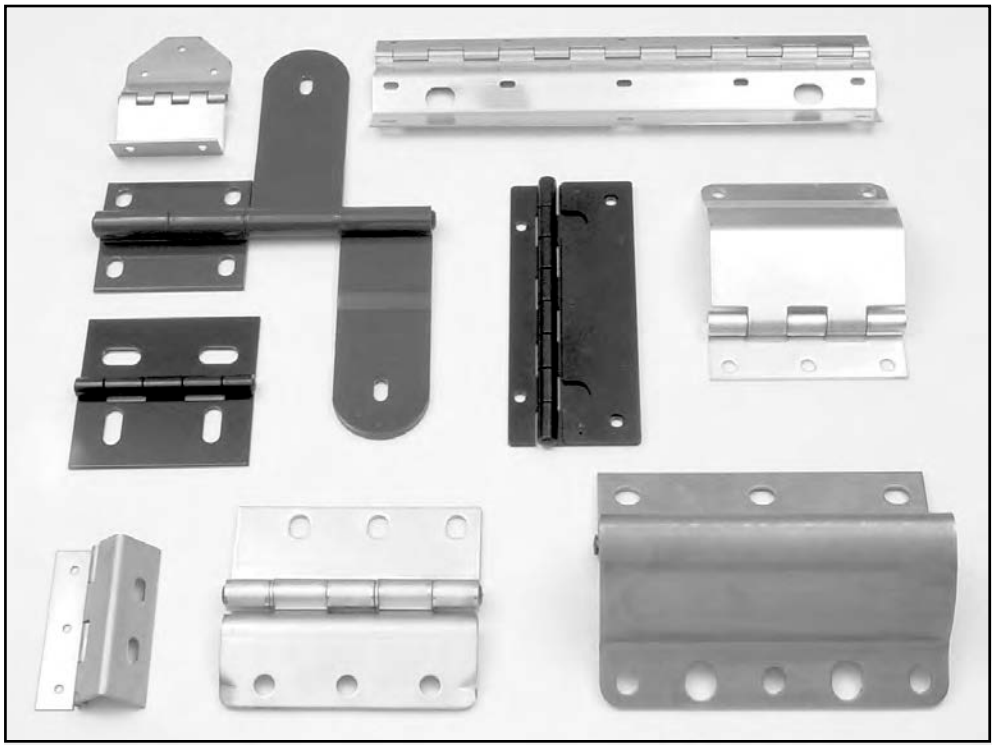
CAM ROTATION
(see left)
01 = Clockwise
09 = Counter-clockwise

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 Sheet Steel Pre-Plated Steel 304 Stainless Steel 316 Stainless Steel Aluminum 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

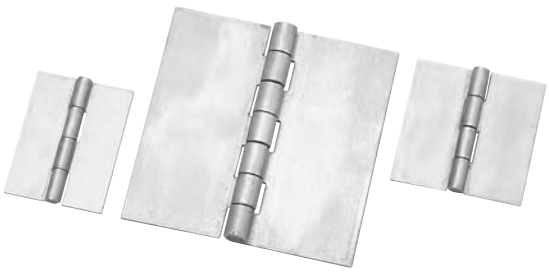
STAINLESS AVAILABLE

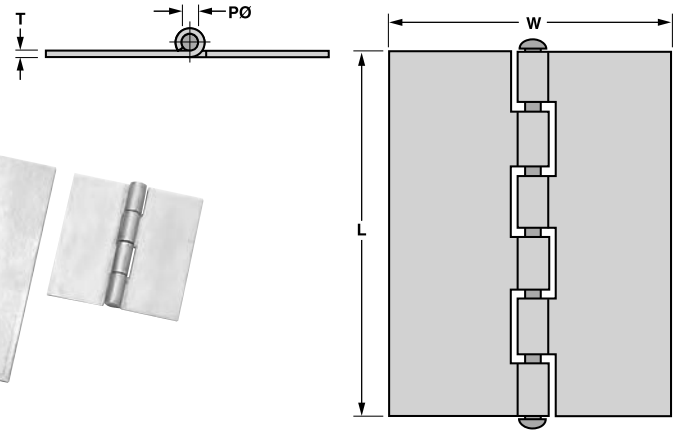
STEEL BUTT HINGE PART NUMBERS	PRIMARY DIMENSIONS					304 STAINLESS STEEL BUTT HINGE PART NUMBERS
	Open Width "W"	Length "L"	Leaf Thickness "T"	Pin Diameter "P"	Pin Retention	
BH-23-1010-10	1.00"	1.00"	.035"	.91"	staked	BH-23-1010-15
BH-23-1515-10	1.50"	1.50"	.035"	.91"	staked	BH-23-1515-15
BH-25-1515-10	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





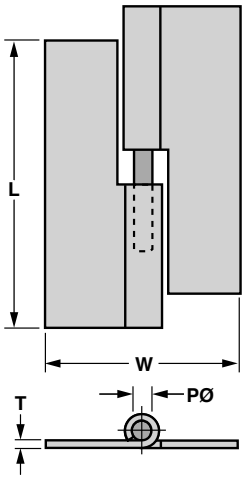
CAD POWERED

LIFT-OFF, BUTT HINGES

- Used in applications where the door needs to be lifted off.
- Left and right hand versions available.

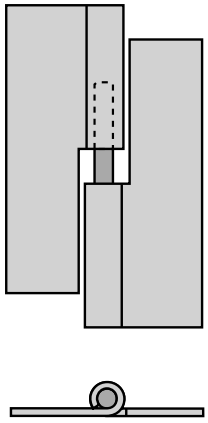
STAINLESS AVAILABLE

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

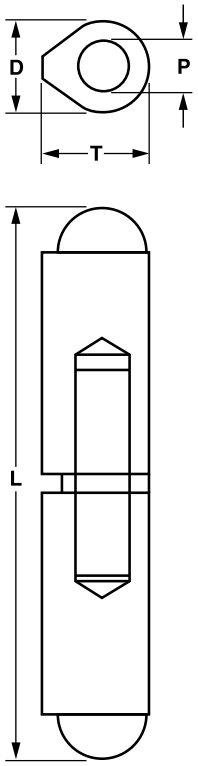
Clancey is your custom hinge solution provider

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

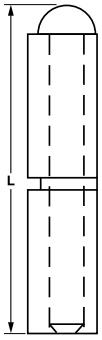


Other sizes are available.
www.clancey.com

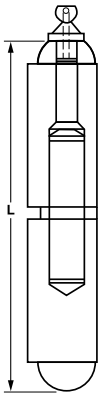
Try this part in your application Please call for samples.
800-747-7405

	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"

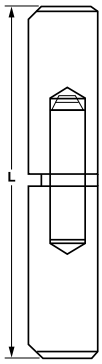
	PART NUMBER	PRIMARY DIMENSIONS							
		LENGTH "L"		THICKNESS "T"		HINGE DIAMETER "D"		PIN DIAMETER "P"	
ALUMINUM BODY	ALUMINUM BODY FIXED STAINLESS STEEL PIN, STAINLESS STEEL WASHER								
	7010.AL.060	60mm	2.36"	12mm	.47"	10mm	.39"	6mm	.24"
	7010.AL.080	80mm	3.15"	15.5mm	.61"	13mm	.51"	8mm	.31"
	7010.AL.100	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

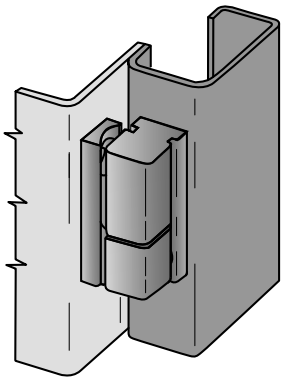


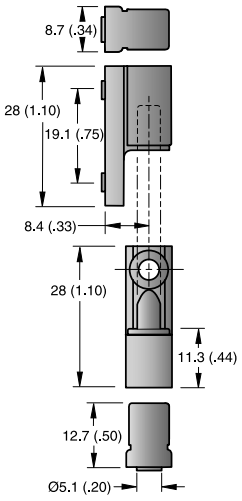
FLAT HEAD 316 STAINLESS CONFIGURATION

- **Allows door to be removed at hinge side.**
- **Hinges can be reversed for permanent installation.**
- **Mounting hardware is concealed.**

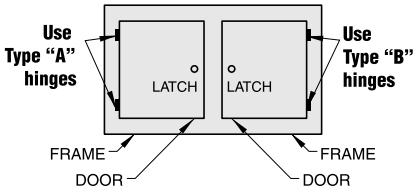
DIE CAST LIFT OFF HINGES MINIATURE SIZE

IN-LINE VERSION



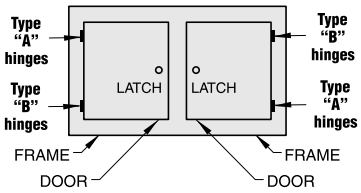


Lift-off Installation

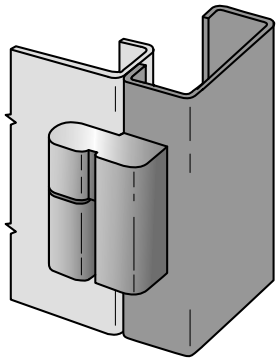


Permanent Installation

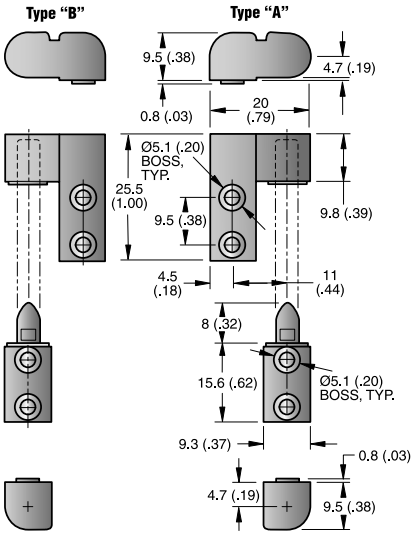
Use one of each type per side.



OFFSET VERSION



Offset "A" illustrated



INLINE HINGE

NSF

- **In-line hinges can be used interchangeably on doors hinged on either side.**

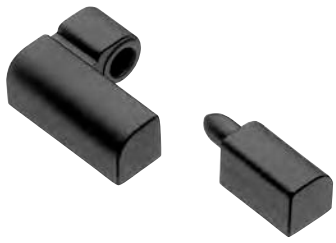
Use screw size	PART NUMBER
6-32	**96-110**
M4 x 0.7	**96-140**

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.**



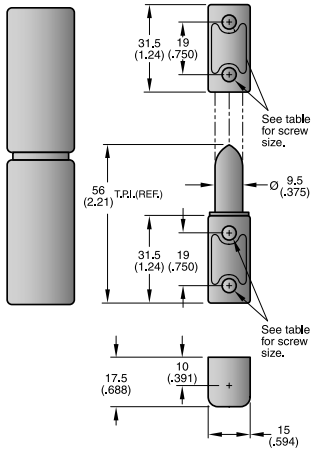
Offset "B" pictured

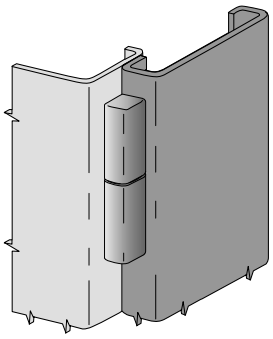
Use screw size	PART NUMBER	
	Type "A"	Type "B"
6-32	**96-111**	**96-112**
M4 x 0.7	**96-141**	**96-142**

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

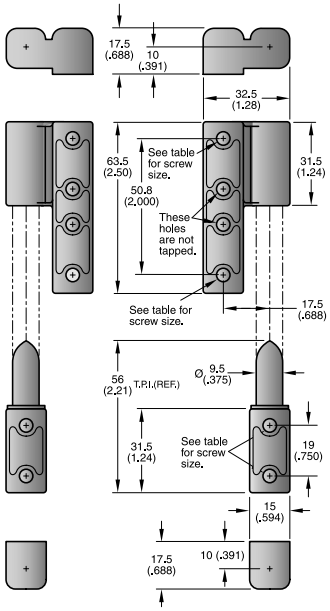
Use screw size	PART NUMBER
M5	96-50-500-50
No. 10-32	96-10-500-50

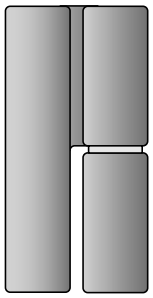
For detailed material specifications plus product installation instructions.

www.clancey.com

OFFSET HINGE

- **Offset hinges must be ordered as type "A" or type "B" assemblies. "(See diagram - page 167)"**

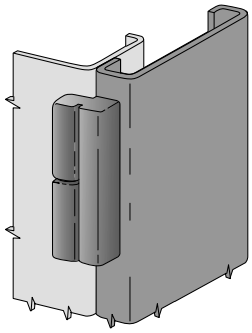




Offset Version



Offset "A" pictured



Offset "B" illustrated

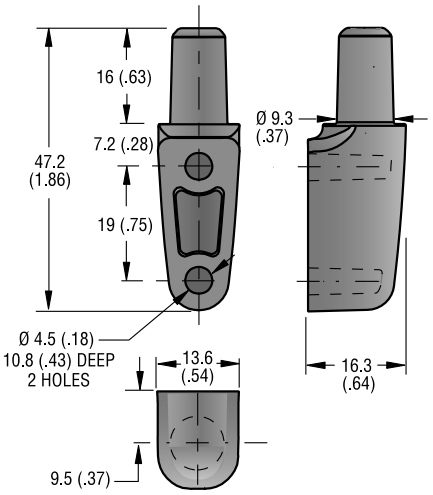
Use screw sizes	PART NUMBERS	
	Type "A"	Type "B"
M5	96-50-510-50	96-50-520-50
No. 10-32	96-10-510-50	96-10-520-50

- **Allows door to be removed at hinge side.**
- **Ergonomic design.**
- **Non-conducting, corrosion resistant materials.**

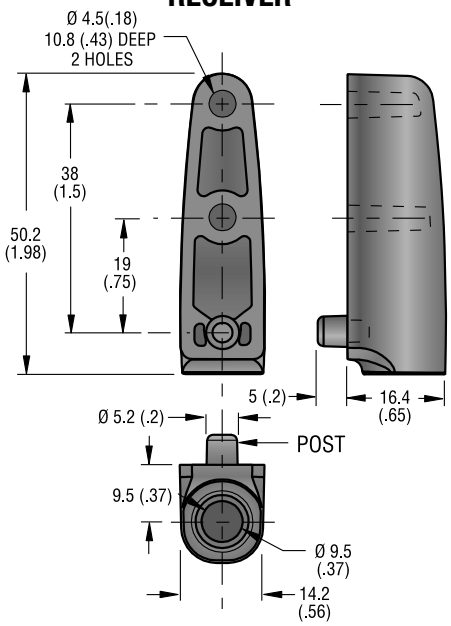
NYLON LIFT-OFF HINGES MEDIUM SIZE IN-LINE

NSF

PIN



RECEIVER

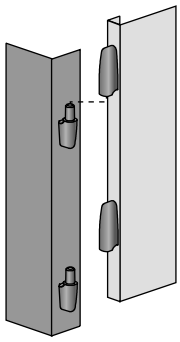




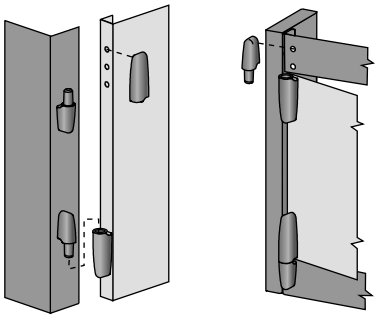
Hinge Element	PART NUMBER
Receiver	96-720
Pin	96-710

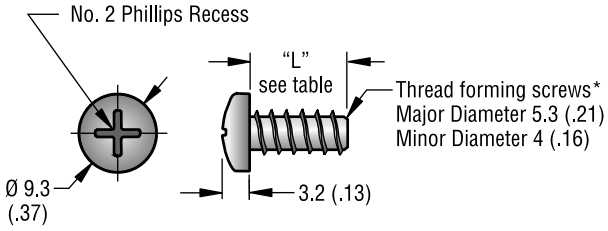
Note: Order (1) pin, (1) receiver, and (4) screws from table below.

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

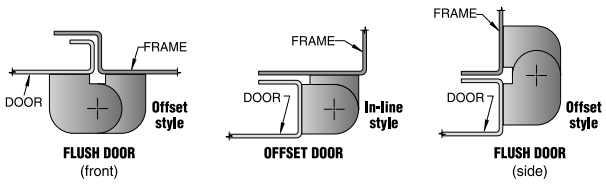
NSF

NYLON LIFT-OFF HINGES MEDIUM AND LARGE SIZE

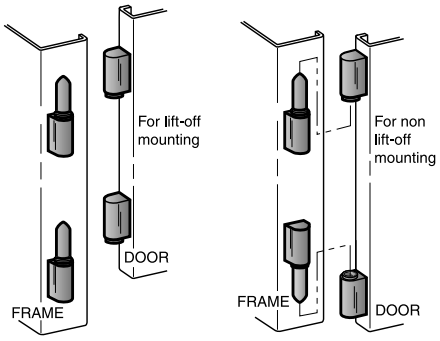


Offset “B” pictured

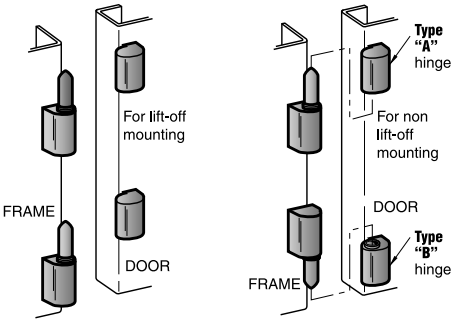
MOUNTING VARIATIONS



IN-LINE KNUCKLE STYLE

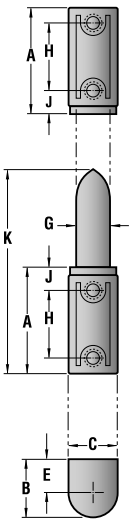


OFFSET KNUCKLE STYLE

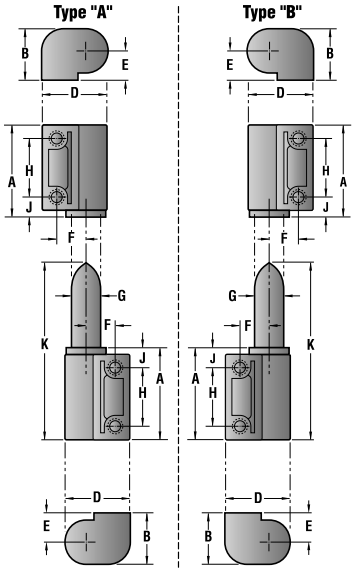


DIMENSIONS									PART NUMBERS		
Screw thread size	A	B	C	D	E, F & G	H	J	K	In-Line Knuckle Style	Offset Knuckle Style	
										Type “A”	Type “B”
300 Series											
M5	31 (1.22)	16.7 (.66)	14.3 (.56)	21.5 (.84)	9.5 (.38)	19 (.75)	7 (.28)	58 (2.28)	See page 169	96-50-310-11	96-50-320-11
10-24										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

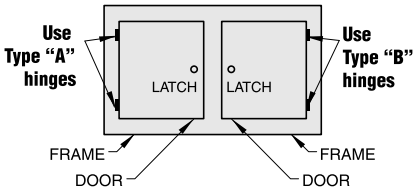
IN-LINE KNUCKLE STYLE



OFFSET KNUCKLE STYLE

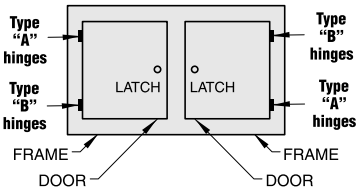


Lift-off Installation



Permanent Installation

Use one of each type per side.



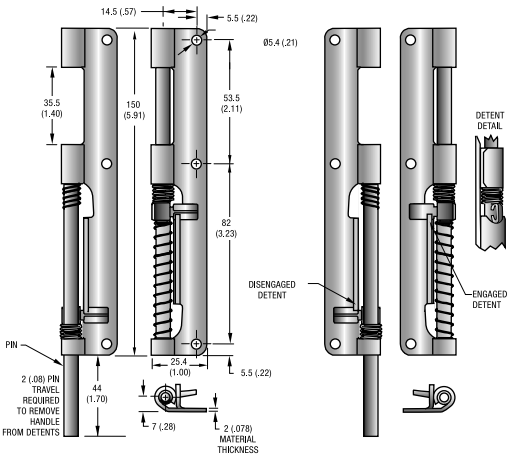
SINGLE PIN CONCEALED, REMOVABLE HINGE



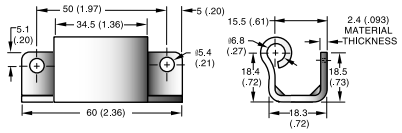
- High strength.
- Durable.
- Resists vibration.
- Door and frame leaves can be installed independently.

Door Leaf Type "A"
F6-941-5

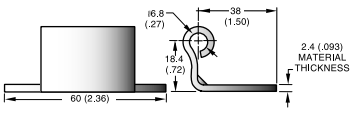
Door Leaf Type "B"
F6-942-5



Formed Frame Leaf
F6-905-5



Flat Frame Leaf
F6-904-5



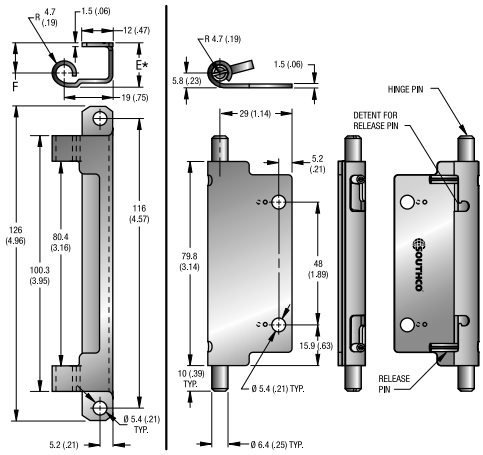
Material: 300 Series stainless steel, natural

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

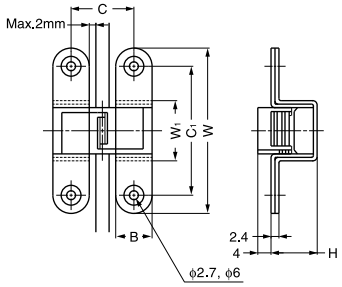
CAD POWERED

LIGHT DUTY

- 180° opening angle.
- 5.5 lbs. Per pair load rating.

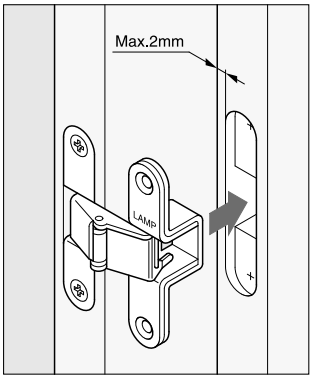
STAINLESS





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")

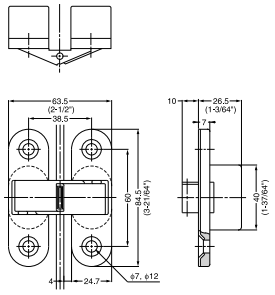
MEDIUM DUTY

- 180° opening angle.
- 66 lbs. Per pair load rating.

STAINLESS

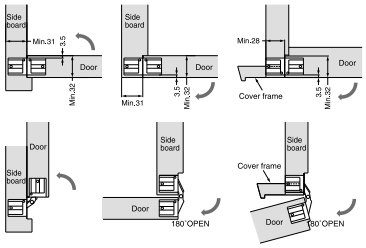


PART NUMBER
I-66



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



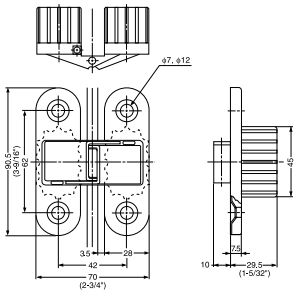
HEAVY DUTY

- 180° opening angle.
- 88 lbs. Per pair load rating.

STAINLESS



PART NUMBER
I-90

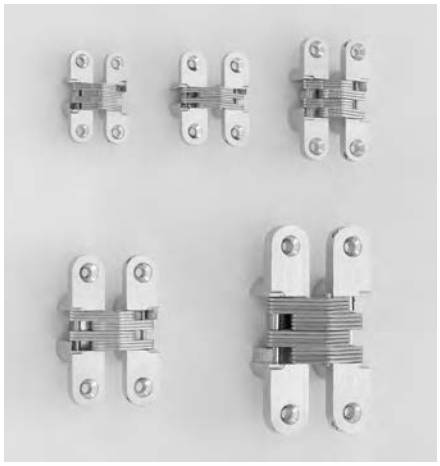


Material: Plate and Arm - 304 Stainless Steel.
Body - Polymide.
Finish: Plate and arm - Satin.
Body - Brown.
Notes: Distance between door edge and hinge must be less than 3.5 mm.

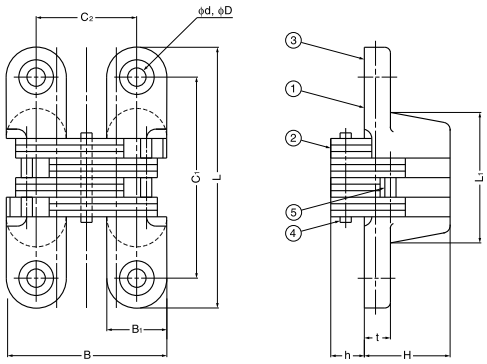
- **180˚ opening angle.**
- **5 sizes.**

MULTI-LINK CONCEALED HINGE

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")

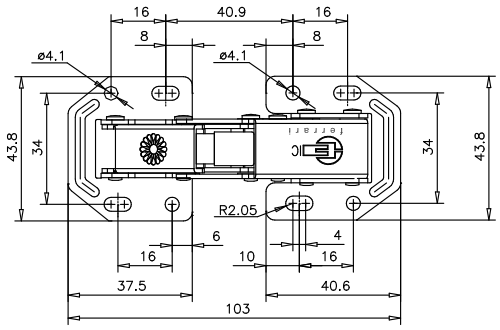


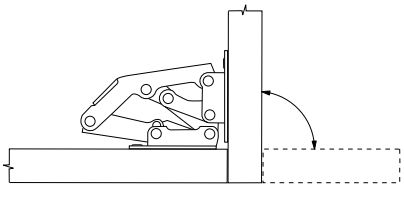
PART NUMBER	MAXIMUM DOOR EDGE DISTANCE "X"	MINIMUM DOOR THICKNESS	MATERIALS / FINISH		
			BODY	LINKS	PINS
R-43	2.3 (.09")	13 (.51")	Zinc Alloy / Satin Chrome	304 Stainless / Plain	303 Stainless / Plain
R-45	3 (.12")	19 (.75")	Zinc Alloy / Satin Chrome	304 Stainless / Plain	303 Stainless / Plain
R-60	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



- **5˚ Inward bias for secure closure.**
- **Economical.**
- **For doors 3/4" thickness or less.**

90° CONCEALED HINGE







Try this part in your application Please call for samples.

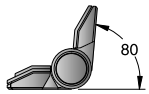
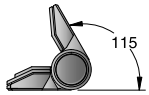
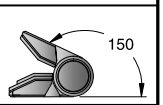
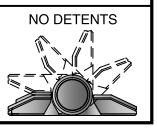
800-747-7405

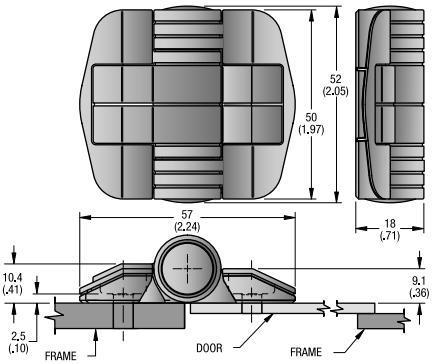
PART NUMBER
ES01/G

DOOR-POSITIONING HINGE

- Holds doors open without secondary mechanical support.
- 3 positioning torques hold doors at 80°, 115° or 150°.
- Free-swinging style available.



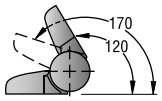
PART NUMBERS		POSITIONING TORQUE N•m (in. lbs.)	DETENTED OPEN ANGLE
Stainless Steel Detent tube	Hardened steel Detent tube		
C6-21	C6-1	0.7 (6)	
C6-22	C6-2	1.1 (10)	
C6-23	C6-3	1.7 (15)	
C6-24	C6-4	0.7 (6)	
C6-25	C6-5	1.1 (10)	
C6-26	C6-6	1.7 (15)	
C6-27	C6-7	0.7 (6)	
C6-28	C6-8	1.1 (10)	
C6-29	C6-9	1.7 (15)	
C6-20	C6-0	——	

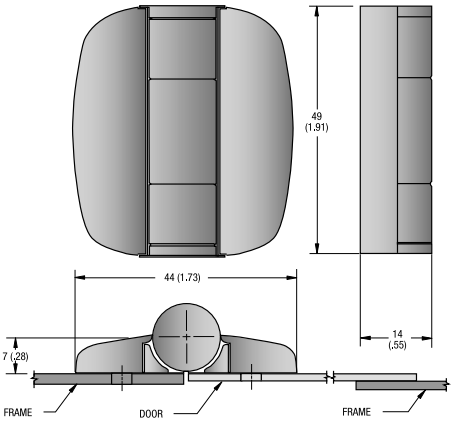


POSITIONING-ADVANTAGE HINGE

- 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	



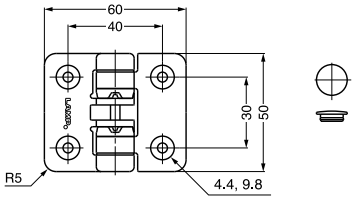
For detailed material specifications plus product installation instructions.

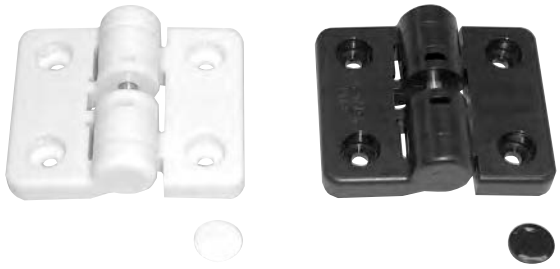
www.clancey.com

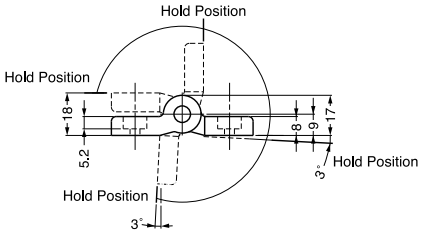
- **Holds in 90° position incriments.**
- **Non-corrosive w/ stainless steel pin.**
- **Caps hide mounting hardware.**

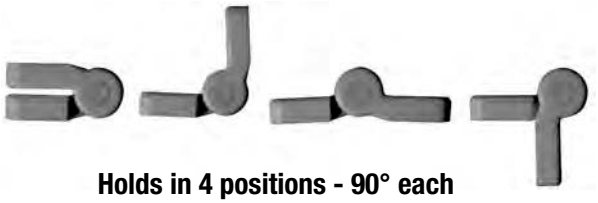
COMPOSITE DETENT HINGE

NON-CORROSIVE



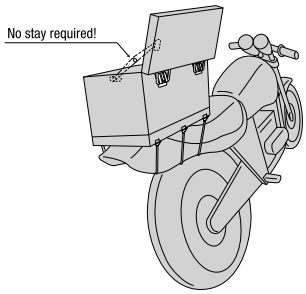






Holds in 4 positions - 90° each

PART NUMBER	Color
YJ-50B	Black
YJ-50W	White



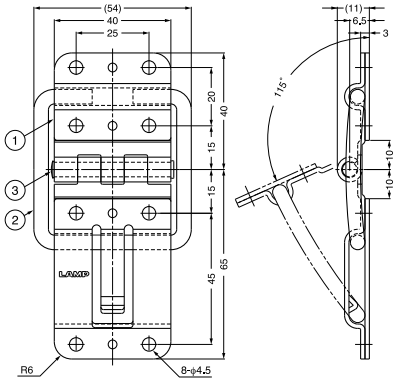
- **Polished stainless steel.**
- **Eliminate heed for door props.**
- **Easy to use and install.**

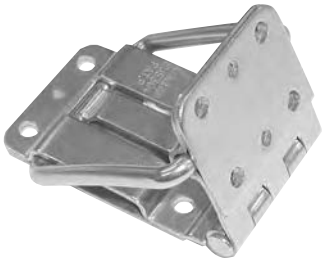
STAINLESS STEEL DETENT HINGE

STAINLESS



PART NUMBER
YC-105





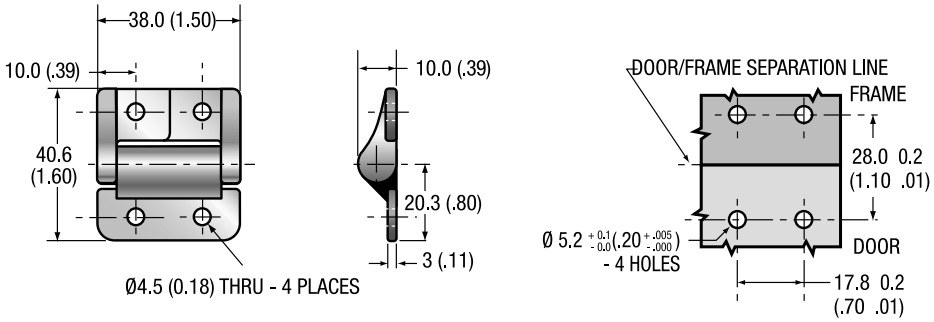
CONSTANT TORQUE FRICTION HINGES

- 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.

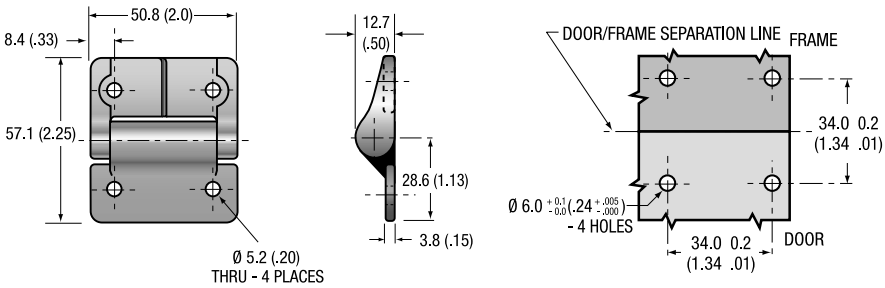
Prevailing Torque	PART NUMBER	Finish
8 in-lbs.	E6-10-208-50	Black
	E6-10-208-33	Natural

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.

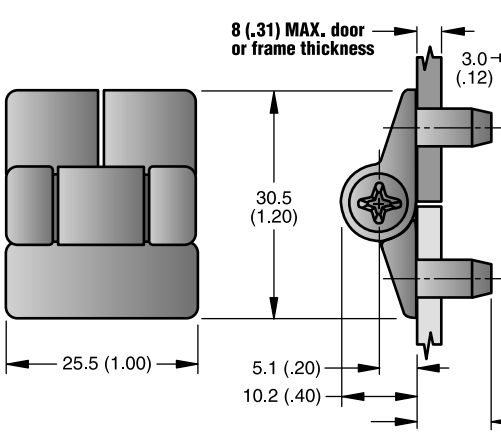
www.clancey.com

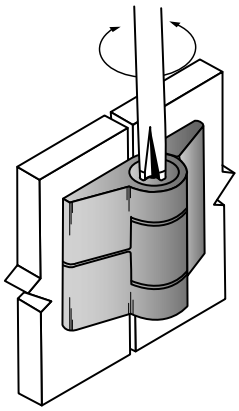
- **Hold doors open, partially open, closed.**
- **Turn the screw to dampen or free-up the door swing.**

ADJUSTABLE FRICTION HINGES

NON-CORROSIVE

SMALL SIZE

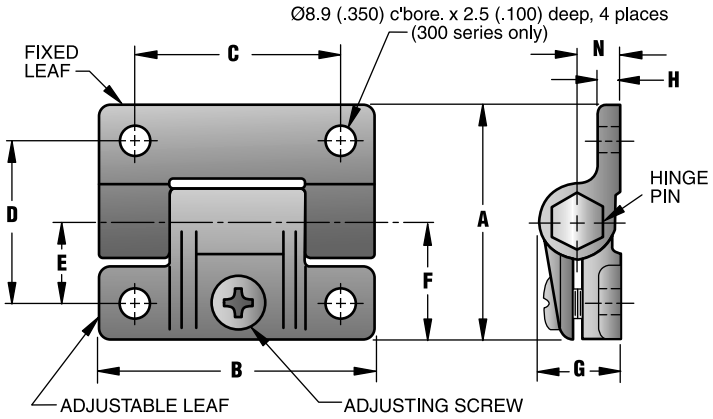


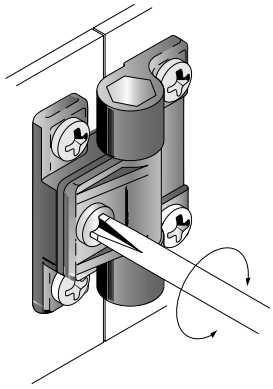




COLOR	PART NUMBERS
Black	E6-10-101-20
Colonial White	E6-10-101-30

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	

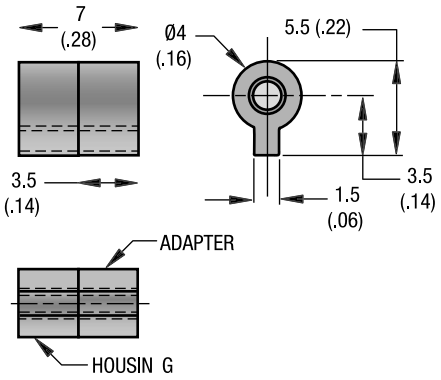
For detailed material specifications plus product installation instructions.

www.clancey.com

CEMA™ CONSTANT TORQUE HINGE MINATURE (.3 in. – lbf)

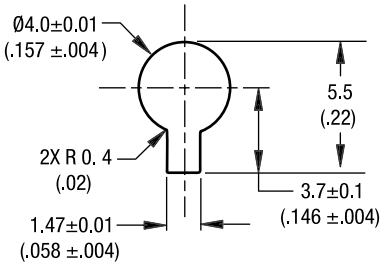


- **Smooth consistant operation.**
- **Extremely compact design.**
- **Requires no adjustment.**
- **Single torque rating.**



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.

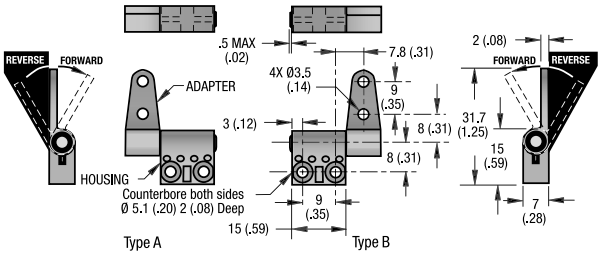
APPLICATION EXAMPLE:



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.**

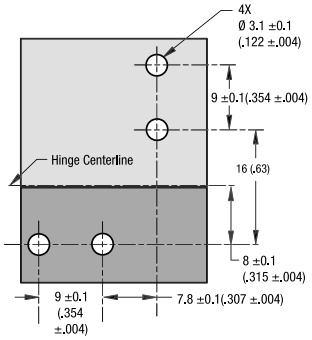


SYMMETRIC TORQUE VERSIONS		
PART NUMBERS		STATIC TORQUE (FORWARD and REVERSE)
TYPE A	TYPE B	
ST-7A-30SA-33	ST-7A-30SB-33	3.5 kg-cm (3 in-lbf)
ST-7A-40SA-33	ST-7A-30SB-33	4.6 kg-cm (4 in-lbf)
ST-7A-50SA-33 •	ST-7A-30SB-33 •	5.8 kg-cm (5 in-lbf)

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



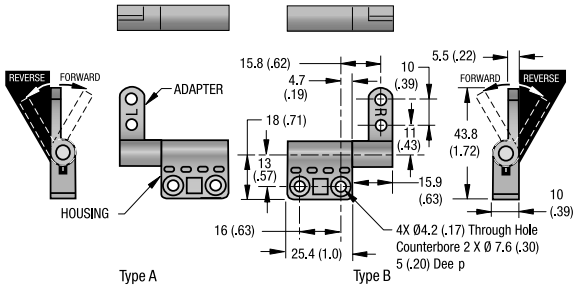
NOTE:

- **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.**



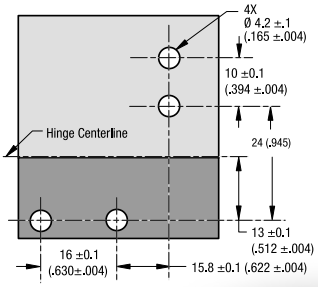


SYMMETRIC TORQUE VERSIONS		
PART NUMBERS		STATIC TORQUE (FORWARD and REVERSE)
TYPE A	TYPE B	
ST-10A-80SA-33	ST-10A-80SB-33	9.2 kg-cm (8 in-lbf)
ST-10A-120SA-33	ST-10A-120SB-33	13.8 kg-cm (12 in-lbf)
ST-10A-160SA-33 •	ST-10A-160SB-33 •	18.4 kg-cm (16 in-lbf)

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.**

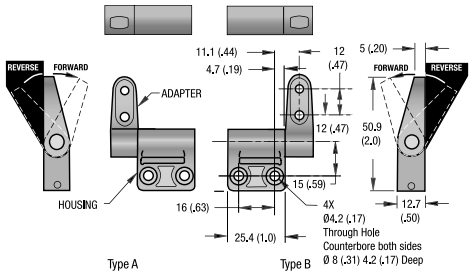
For detailed material specifications and product strength guidelines.

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.**





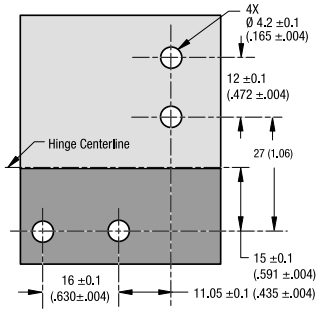
SYMMETRIC TORQUE VERSIONS		
PART NUMBERS		STATIC TORQUE (FORWARD and REVERSE)
TYPE A	TYPE B	
ST-12A-120SA-33	ST-12A-120SB-33	13.8 kg-cm (12 in-lbf)
ST-12A-200SA-33	ST-12A-200SB-33	23 kg-cm (20 in-lbf)
ST-12A-280SA-33 •	ST-12A-280SB-33 •	32.3 kg-cm (28 in-lbf)
ST-12A-360SA-33 •	ST-12A-360SB-33 •	41.5 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.**

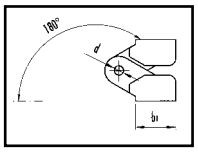
CAD POWERED

8-KNUCKLE GUARD HINGE

NON-CORROSIVE

METRIC

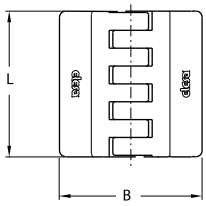
Material: Hinge – High impact technopolymer
Pin – 303 stainless steel
Finish: Matte black

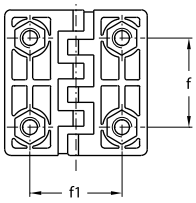


Swing Range

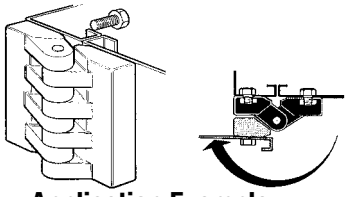
- Ideal for machinery guards.
- 3 mounting designs.
- Impact resistant.
- 180° swing range.
- Resistant to solvents, oil, grease and oher chemical agents.
- Stainless steel, non-removable pin.





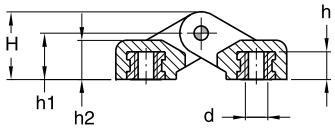


Primary Dimensions



Application Example

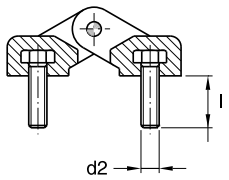
THREADED INSERT DESIGN



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

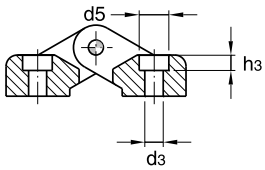
PROJECTING STUD DESIGN



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")

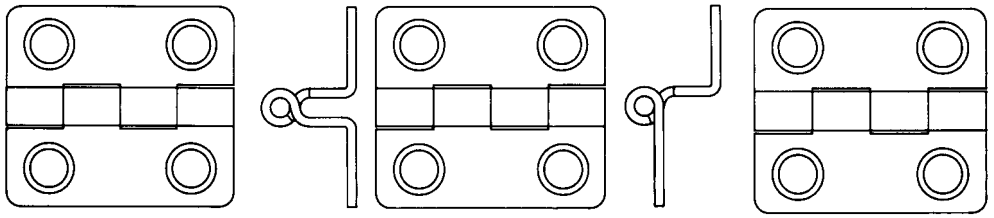
Elesa® original design

- **Variety of shapes and sizes.**
- **Electro-polished and passivated.**
- **Countersunk mounting holes.**

STAINLESS STEEL BUTT HINGE

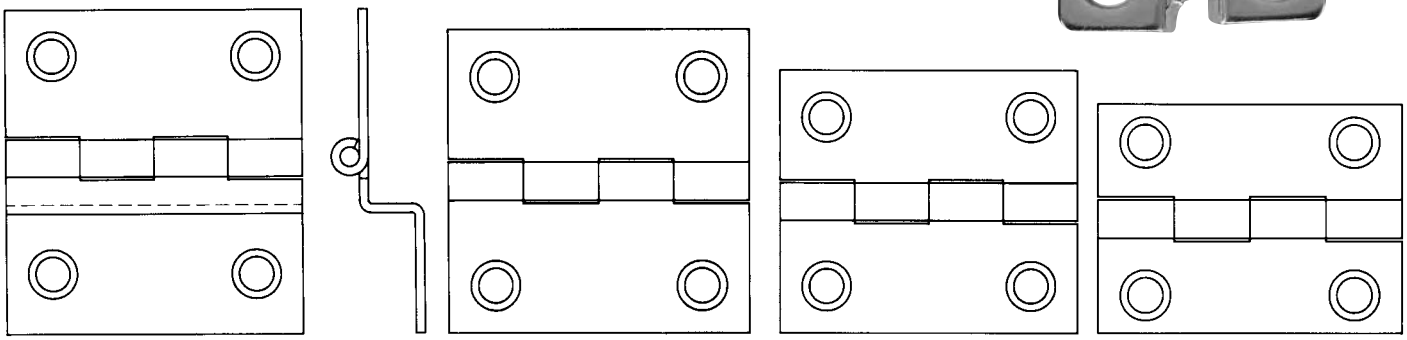
MSH-1009 (pictured)





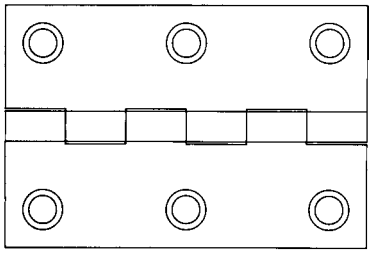
MBH-1009 MBH-1008 MBH-0997



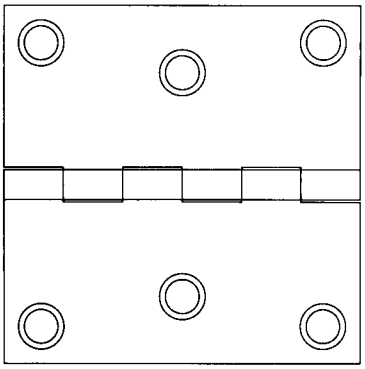


MBH-1002 MBH-0992 MBH-0991 MBH-0990

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.

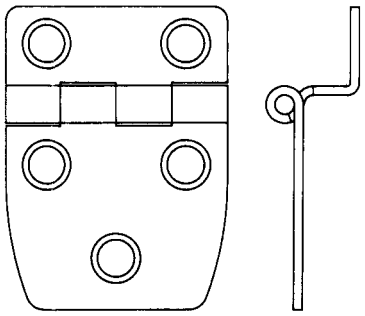
CAD POWERED

STAINLESS STEEL STRAP HINGES

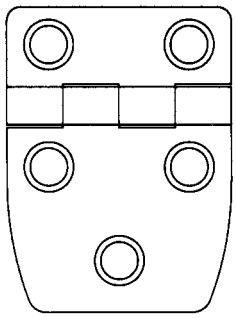
- Variety of shapes and sizes.
- Electro-polished and passivated.
- Countersunk mounting holes.



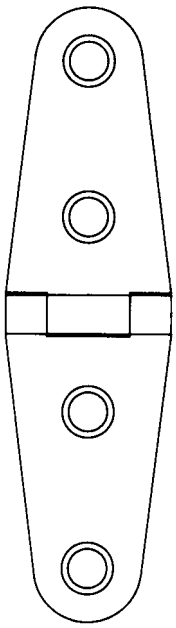
MSH-1005 (pictured)



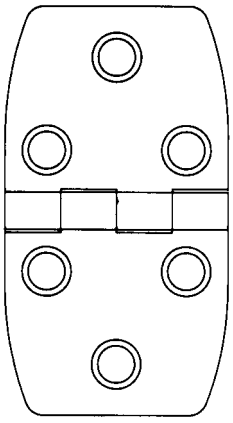
MSH-1005



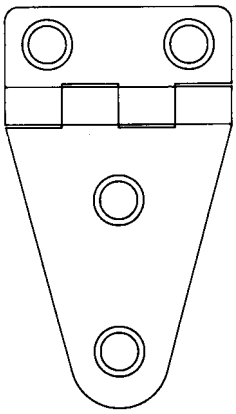
MSH-0999



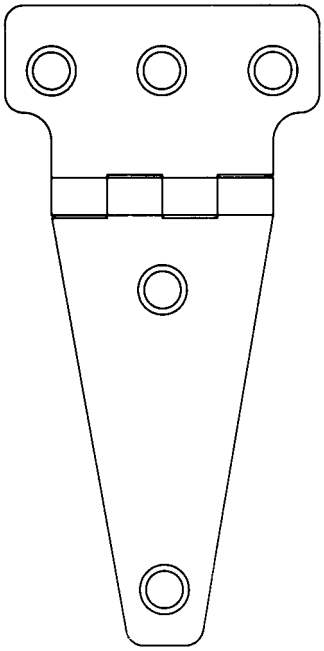
MSH-1012



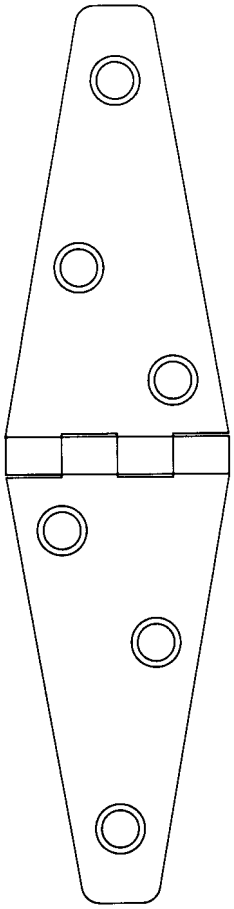
MSH-0998



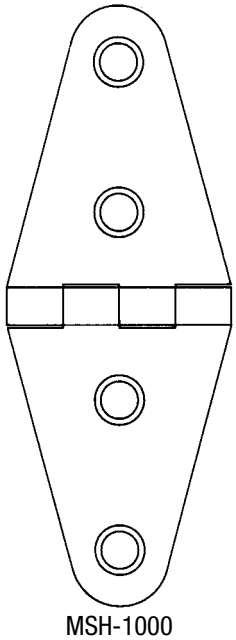
MSH-1004



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

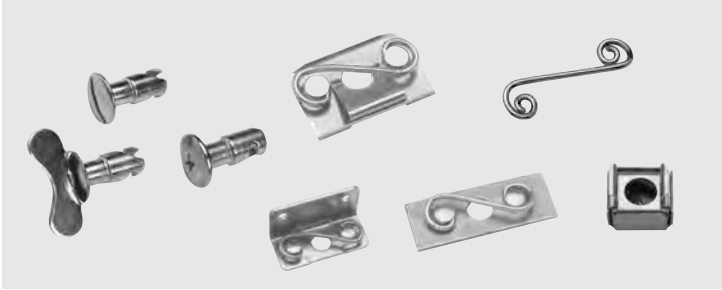
Online Configuration. www.clancey.com

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.**

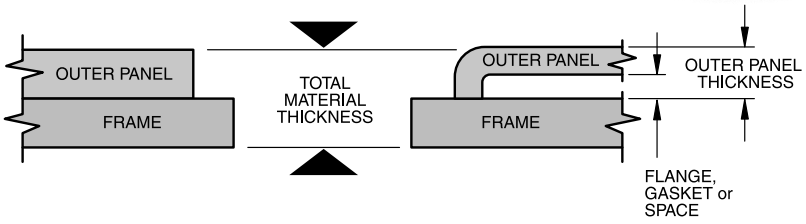
Online Configuration. www.clancey.com

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.

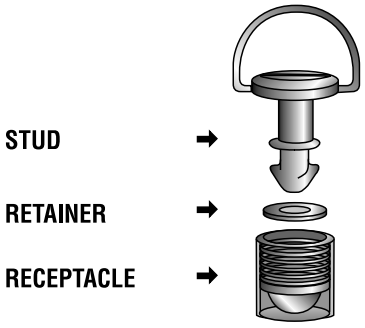
Small
Medium
Large

4. Order your components.

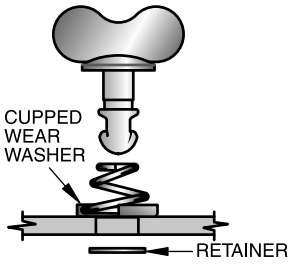
Required
- **Stud**
- **Retainer**
- **Receptacle**

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.

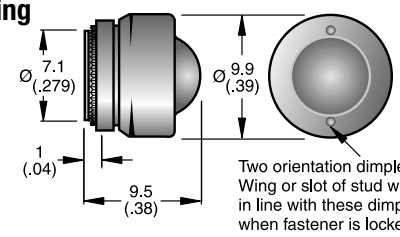
SMALL SERIES, RECEPTACLES

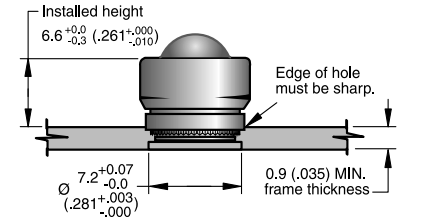
SHIELDED PRESS-IN FOR SHEET METAL

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_B85 or less.

Material:
Shell: Steel
Spring: Stainless steel

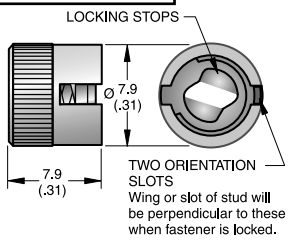
TOOL PART NUMBER
54-0-5466-11

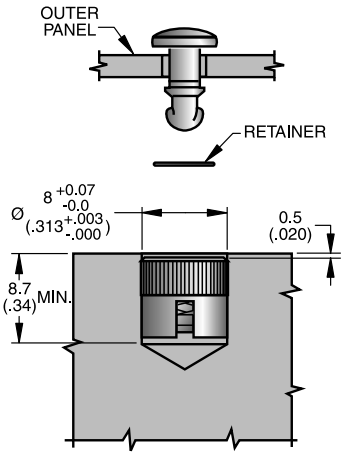
PRESS-IN FOR BLIND APPLICATIONS AND SOLID MATERIALS

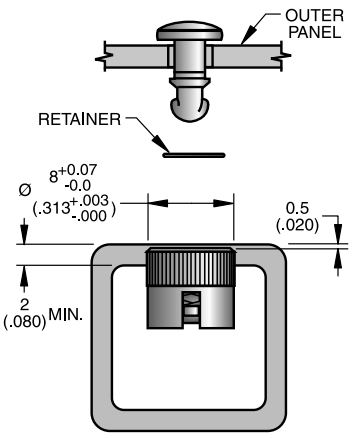
PART NUMBER
81-35-308-55

STUD SELECTION
- Determine outer panel thickness.
- Use column I in stud selection table.

Material:
Shell: Steel
Spring: Stainless steel





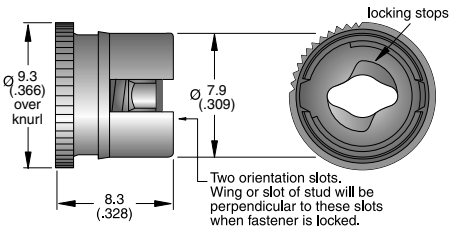


FOR ULTRASONIC INSTALLATION IN THERMOPLASTICS

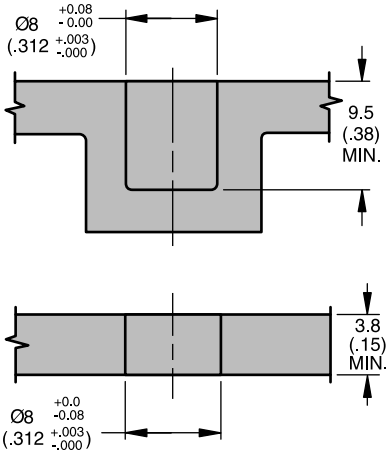
PART NUMBER
81-35-310-55

STUD SELECTION
- Determine total material thickness.
- Use column I in stud selection table.

Material:
Shell: Steel
Spring: Stainless steel

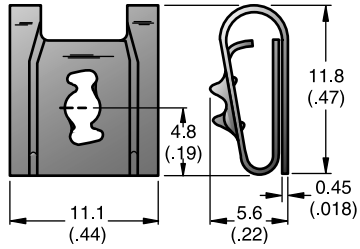


INSTALLATION

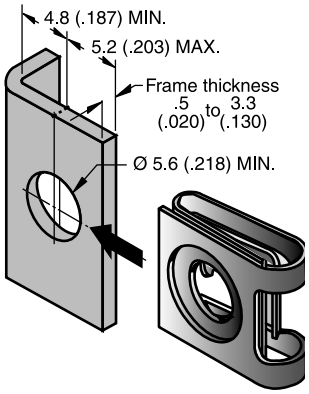


SMALL SERIES, RECEPTACLES

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

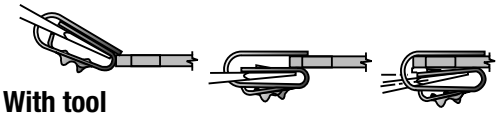
- Determine total material thickness.
- Use column II in stud selection table.

TO INSTALL

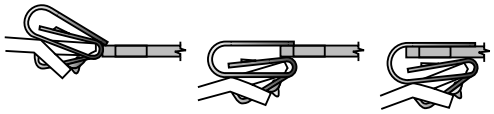
By hand



With screwdriver



With tool



INSTALLATION TOOL

PART NUMBER
29-81-101-10

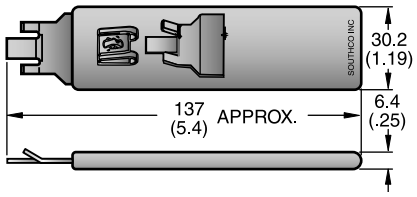
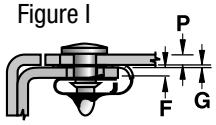
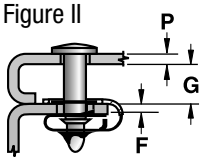


Figure I

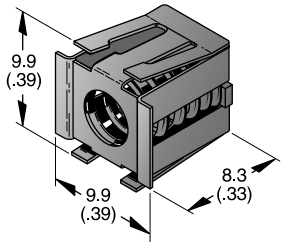


P + F -1.07 (.042) (constant) when G is 0.45 (.018).

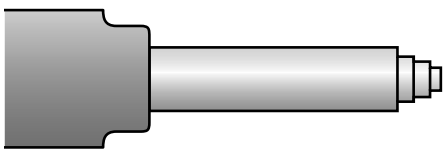
Figure II



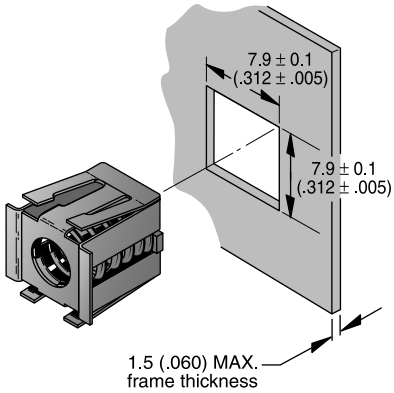
P + F + G -1.5 (.060) (constant) when G is 0.46 (.019) or greater.



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.

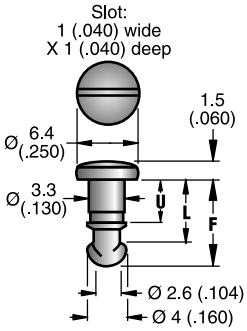
Material:

Housing and retainer: 301 stainless steel
Receptacle: 1010 steel, zinc plate
Spring: 302 stainless steel, passivated

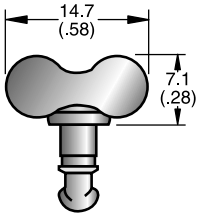
- Interactive configuration at www.clancey.com
- Quick access fastener assembly.
- 4 head styles.
- 5 receptacle styles.
- For limited space applications.

SMALL SERIES, STUD SELECTION TABLE

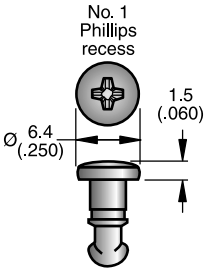
OVAL SLOTTED



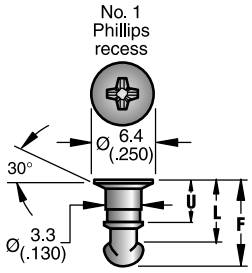
WING HEAD



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



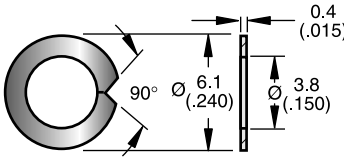
FLUSH PHILLIPS RECESS



SMALL SERIES, RETAINERS

STAINLESS STEEL AVAILABLE

SPLIT RING

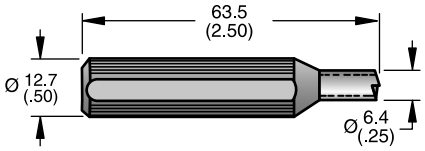


Stainless Steel

PART NUMBER
81-32-101-20

RETAINER

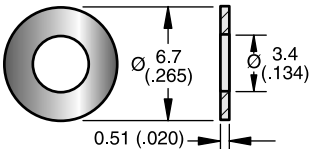
INSTALLATION TOOL



PART NUMBER
81-0-15129-11

TOOL

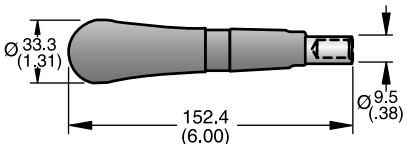
PUSH-ON



Nylon, Black

PART NUMBER
81-32-301-12

INSTALLATION TOOL



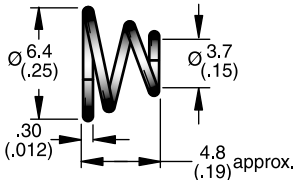
PART NUMBER
81-0-18173-11

SMALL SERIES, ACCESSORIES

Adjustment

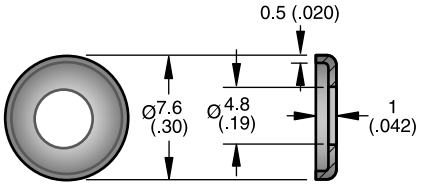
- **Wear washer and ejector spring** add .8 mm (.032") to outer panel or total material thickness.
- **Wear washer** add .5 mm (.020") to outer panel or total material thickness.

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

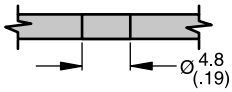
* Accessories cannot be used with flush phillips head style.

SMALL SERIES, PANEL PREPARATION

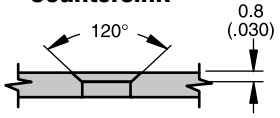
FOR FLUSH-HEAD STYLE



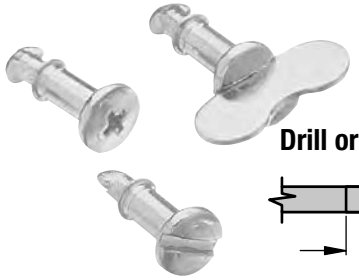
Drill or Punch



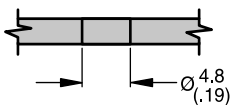
Countersink



FOR ABOVE-SURFACE STYLES



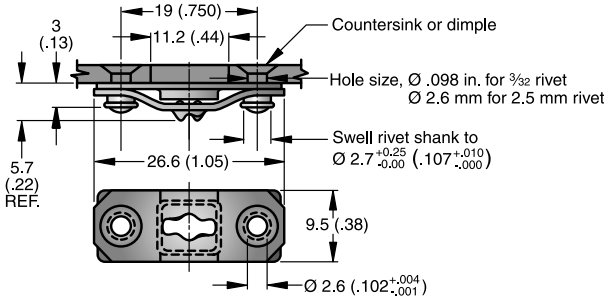
Drill or Punch



MEDIUM SERIES, RECEPTACLES

LEAF SPRING RECEPTACLES

FOR RIVETING - WITH BASE

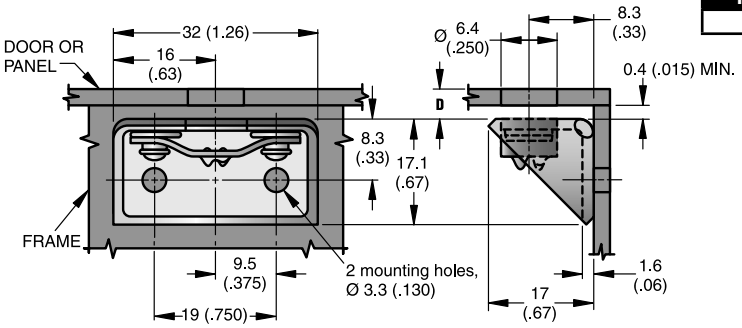


PART NUMBER
82-35-302-15

STUD SELECTION
- Determine total material thickness.
- Use column IV in stud selection table.

Material:
Spring: 1064 steel
Bracket: 1010 steel

SIDE MOUNT



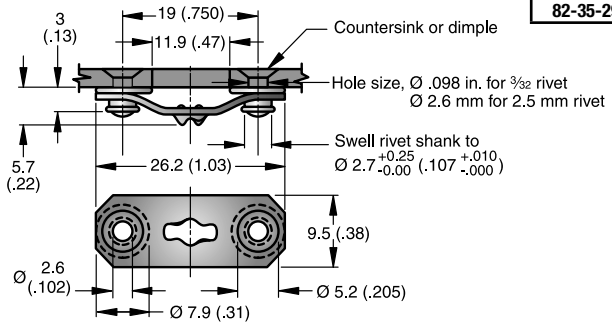
PART NUMBER
82-45-101-15

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

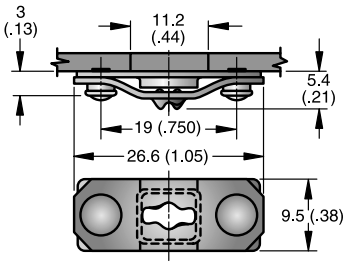


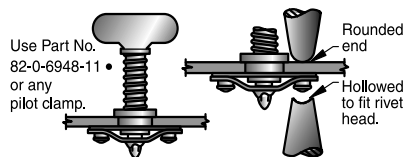
STUD SELECTION
- Determine total material thickness.
- Use column IV in stud selection table.

STAINLESS STEEL AVAILABLE

Material:
Spring: 1064 steel or 17-7 stainless
Eyelet: Steel or 302 stainless

FOR WELDING





PART NUMBER
82-35-303-15

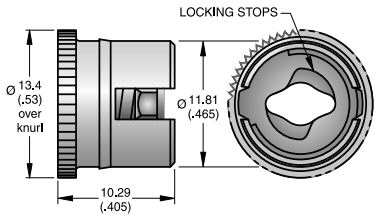
STUD SELECTION
- Determine total material thickness.
- Use column IV in stud selection table.

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

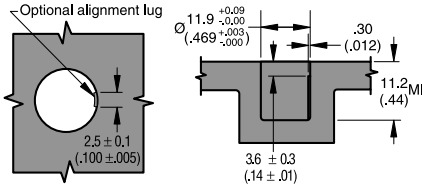


Material:
Shell: Steel
Spring: Stainless steel

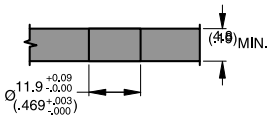
STUD SELECTION
- Determine outer panel thickness.
- Use column II in stud selection table.

PANEL PREPARATION

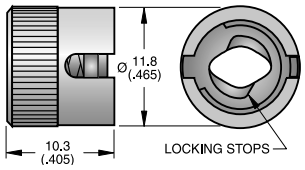
Blind Hole Application



Through Hole Application



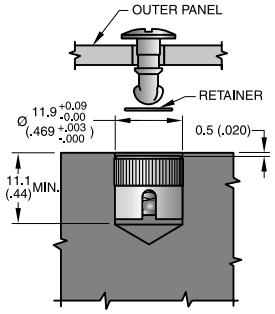
PRESS-IN FOR BLIND APPLICATIONS AND SOLID MATERIALS

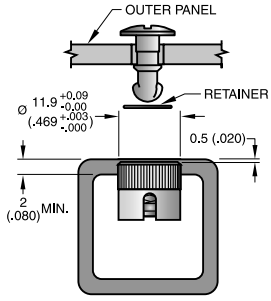


PART NUMBER	
with 90 locking stops	82-35-308-55
without 90 locking stops	82-35-313-55

Material: **Shell:** Steel **Spring:** Stainless steel

STUD SELECTION
- Calculate D + 1.5 mm (.060").
- Use column IV in stud selection table.

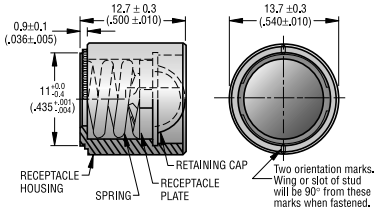




SHIELDED PRESS-IN

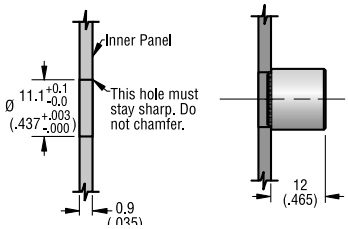
PART NUMBER
82-35-315-55

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

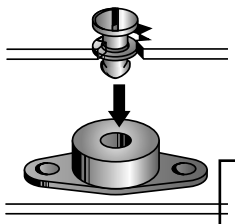


1. Drill or punch hole in inner panel.
2. Press receptacle into hole until the shoulder on the receptacle bottoms out on the panel's surface.

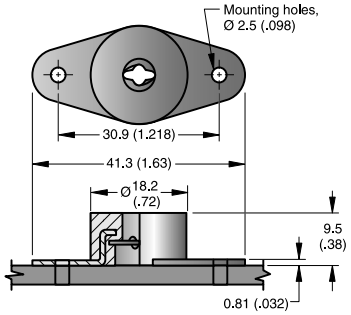
*Note: for inner panels less than 1.3 (.051) thick, the retainer will create a slight gap between the panels. For proper stud selection in these cases, assume the inner panel thickness as 1.3 (.051).

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

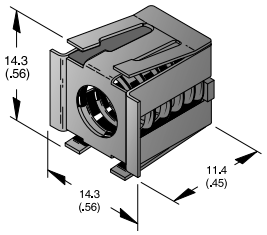
Try this part in your application
Please call for samples.
800-747-7405

SNAP-IN STYLE

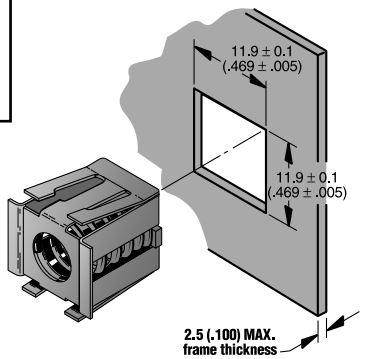
PART NUMBER
82-35-309-56

STUD SELECTION

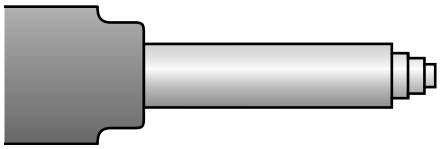
- Calculate outer panel thickness + 5.08 mm (.200").
- Use column IV in stud selection table.



PANEL PREPARATION



INSTALLATION TOOL



PART NUMBER
29-8125-309

Material:

Housing and retainer:	Stainless
Receptacle:	Steel
Spring:	Stainless

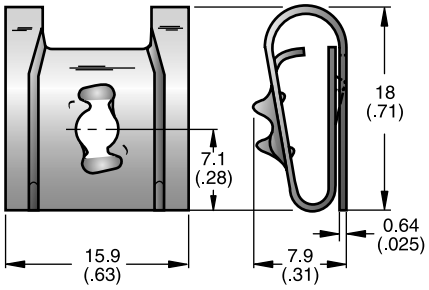
CLIP-ON STYLE

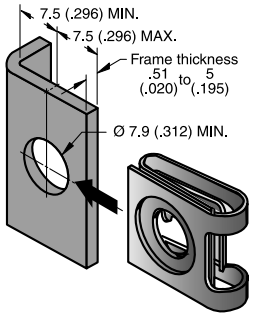
PART NUMBER	
Steel	82-47-113-15
Stainless Steel	82-47-113-20

STUD SELECTION

- Enter result in column IV of stud selection table.

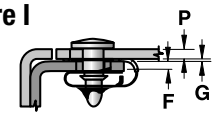
PANEL PREPARATION





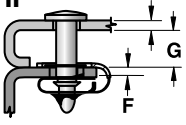
STAINLESS STEEL AVAILABLE

Figure I



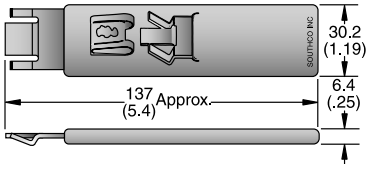
P + F + 1.40 (.055) (constant) when G is 0.64 (.025) .

Figure II

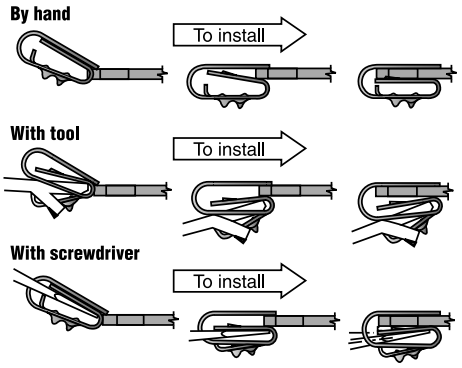


P + F + G + 0.76 (.030) (constant) when G is 0.65 (.026) or greater.

INSTALLATION TOOL



PART NUMBER
29-82-101-10

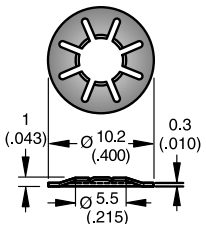


MEDIUM SERIES, RETAINERS

STAINLESS STEEL AVAILABLE

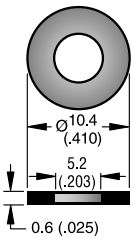
PART NUMBER
82-32-201-20

304 Stainless Steel, passivated.



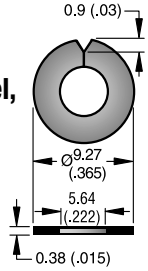
PART NUMBER
82-32-301-12

Nylon, black.



PART NUMBER
82-32-101-20

302 Stainless Steel, passivated.



INSTALLATION TOOL

PART NUMBER
82-0-22542-11

INSTALLATION TOOL

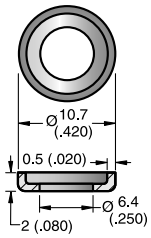
PART NUMBER
82-0-7595-11

MEDIUM SERIES, ACCESSORIES

NYLON WEAR WASHERS

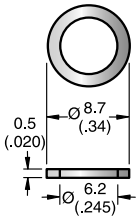
CUPPED

PART NUMBER
82-46-103-39
Black
82-46-101-39
Natural



FLAT

PART NUMBER
82-46-103-39
Natural



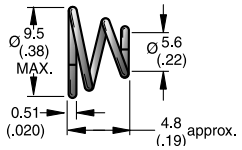
Adjustment
- **Add .5 mm (.020") to your outer panel thickness or total material thickness.**

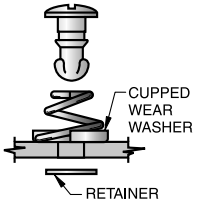
EJECTOR SPRING

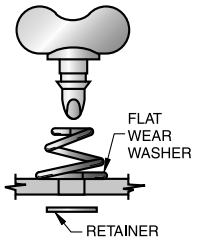
NON-CORROSIVE

PART NUMBER
43-13-1-24

302 Stainless steel, passivated.







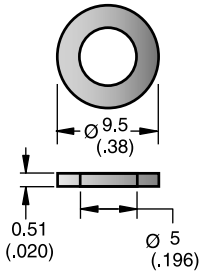
Adjustment
- **When using an ejector spring and wear washer add 1 mm (.040") to your outer panel thickness or total material thickness.**

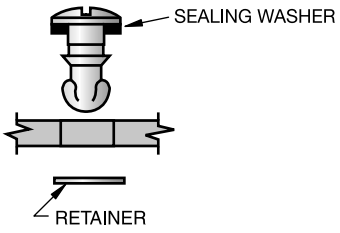
SEALING WASHERS

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.**



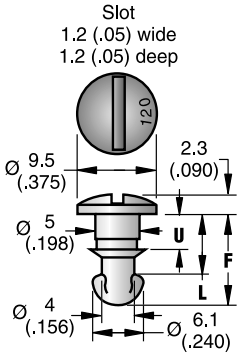


- **Interactive configurator at www.clancey.com**
- **9 head styles.**
- **Spring loaded fully retractable assemblies are available.**
- **Stainless steel available in many styles.**

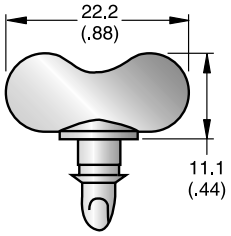
MEDIUM SERIES, STUD SELECTION TABLE

STAINLESS STEEL AVAILABLE

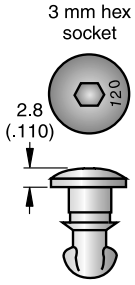
OVAL SLOTTED



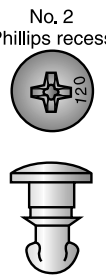
WING HEAD



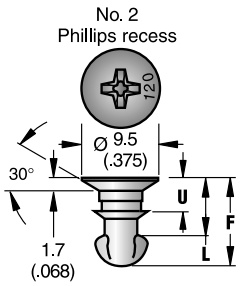
HEX SOCKET



OVAL PHILLIPS



FLUSH PHILLIPS



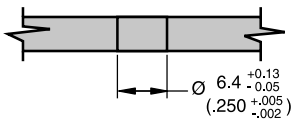
I		II		III		IV		STUD PART NUMBER			
FOR: Part No. 82-35-306-10		FOR: Press-in Part Nos. 82-35-308-55 82-35-313-55 and Ultrasonic Part No. 82-35-310-55		FOR: Part No. 82-35-315-55		FOR: ALL OTHER RECEPTACLES		Zinc plate, chromate plus sealer			
								OVAL SLOTTED	WING HEAD	HEX SOCKET	OVAL PHILLIPS RECESS
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

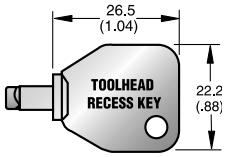
PANEL PREPARATION - ABOVE SURFACE STYLES

Drill or Punch



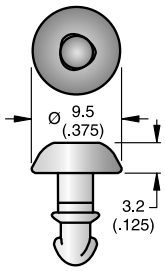
CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

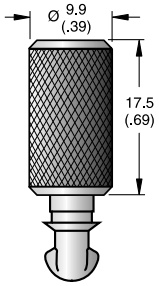


PART NUMBER
29-90-214-10

TOOLHEAD RECESS

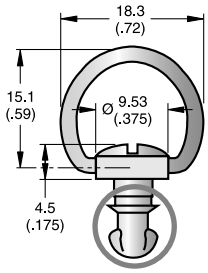


KNURLED HEAD



BAIL STYLE RB

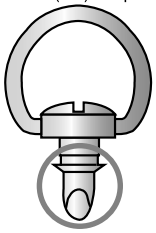
For use when receptacle is vertical.



BAIL STYLE RA

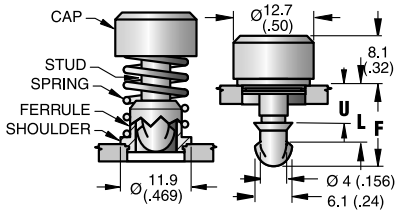
For use when receptacle is horizontal.

Slot
1.2 (.05) wide,
1.2 (.05) deep



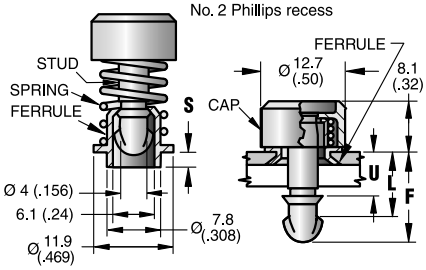
PRESS-IN STUD ASSEMBLY

NOTE: Stud will float
1 (.040) total movement



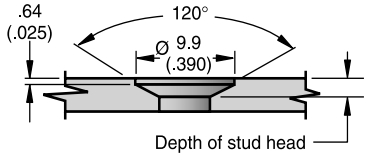
FLARE-IN STUD ASSEMBLY

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)

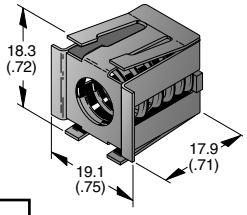
PANEL PREPARATION - FLUSH HEAD STYLE - When outer panel is 1.3 mm (.050") or greater



LARGE SERIES, RECEPTACLES

STAINLESS STEEL AVAILABLE

SNAP-IN STYLE

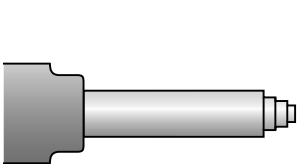


PART NUMBER
85-35-309-56

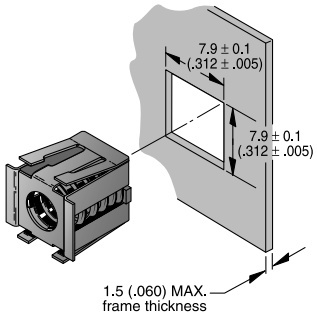
Material: See medium size.

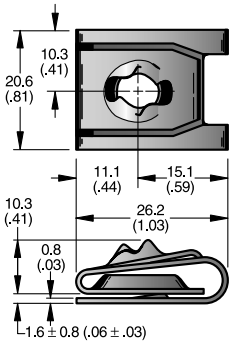
STUD SELECTION
- Calculate outer panel thickness + 8.4 mm (.330").
- Use column III in stud selection table.

PANEL PREPARATION

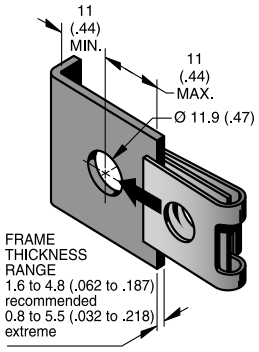


PART NUMBER
29-8125-309





PANEL PREPARATION



CLIP-ON STYLE

PART NUMBER	
Steel	85-47-101-15
Stainless Steel	85-47-101-20

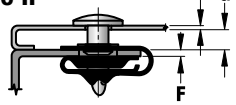
STUD SELECTION
- Calculate as follows.
- Use column III in stud selection table.

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

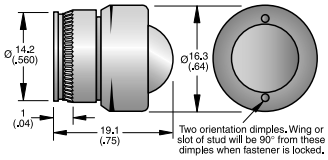
SHIELDED PRESS-IN FOR SHEET METAL

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").

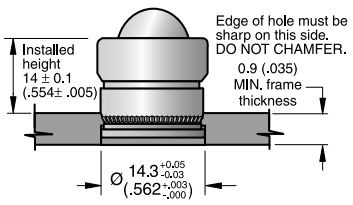
Material:
Shell: Steel
Spring: Stainless steel



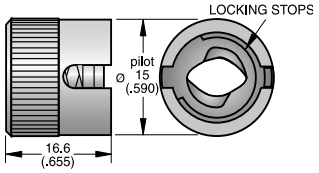
INSTALLATION TOOL

PART NUMBER
90-2825-11

PANEL PREPARATION



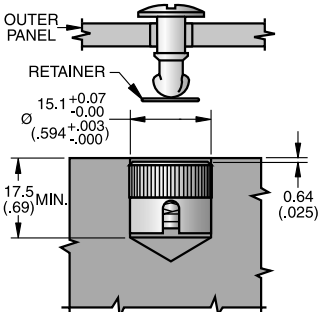
PRESS-IN FOR BLIND APPLICATIONS AND SOLID MATERIALS

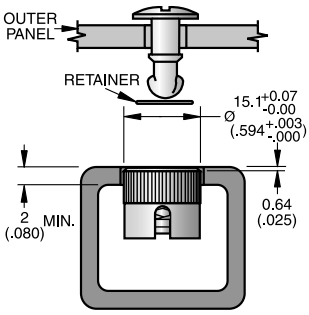


PART NUMBER	
with 90 locking stops	85-35-308-55
without 90 locking stops	85-35-313-55

Material: **Shell:** Steel **Spring:** Stainless steel.

STUD SELECTION
- Calculate outer panel thickness.
- Use column I in stud selection table.





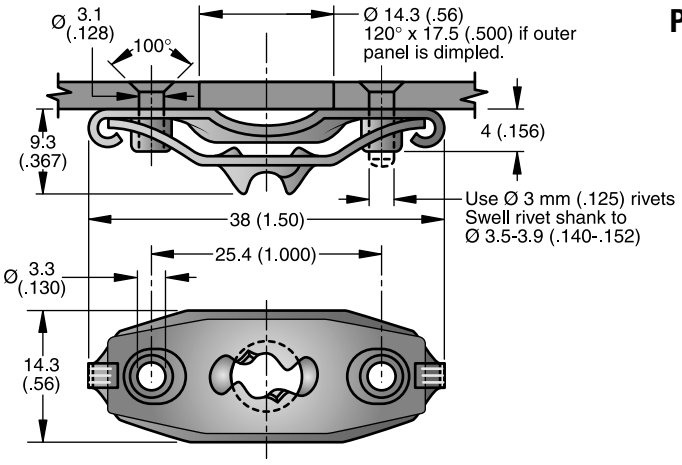
LARGE SERIES, LEAF SPRING RECEPTACLES

STAINLESS STEEL AVAILABLE

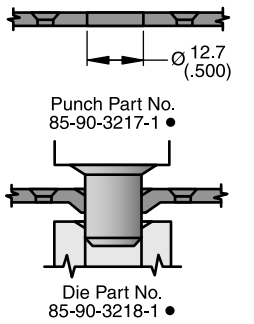
FOR RIVETING

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

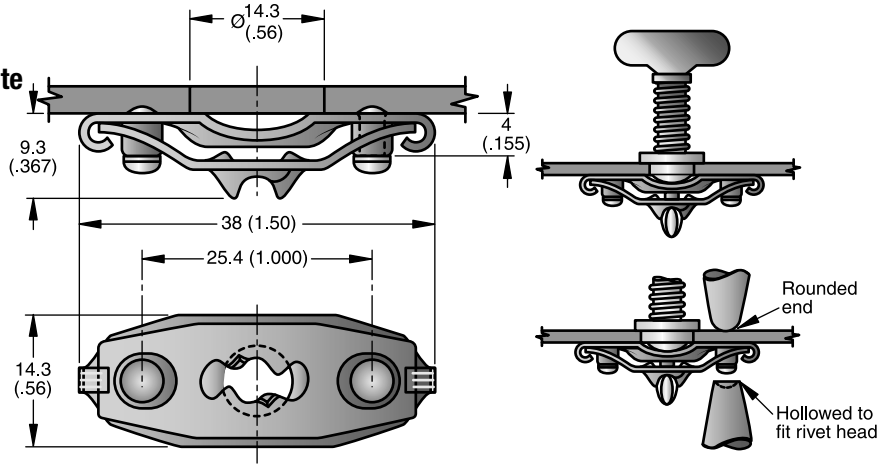


FOR WELDING

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

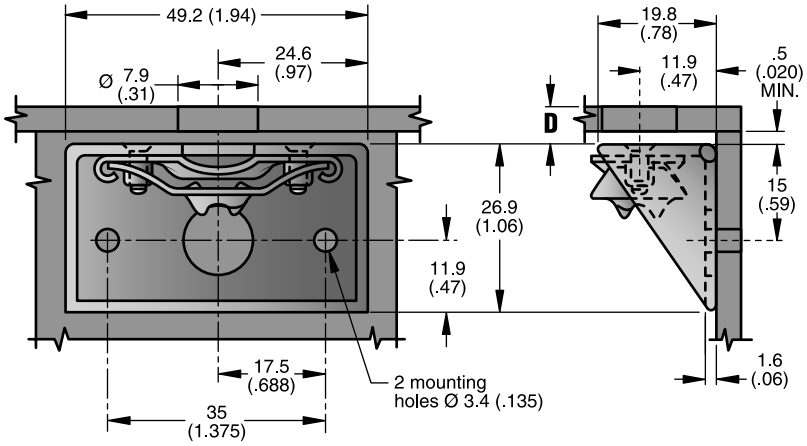
PART NUMBER
85-90-3278-11

SIDE MOUNT

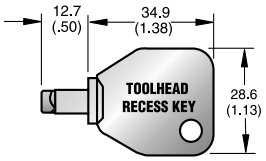
Material:
Spring: 1064 steel
Bracket: 1010 steel

PART NUMBER
85-45-101-15

STUD SELECTION
- Calculate D + 1.6 mm (.062").
- Use column III in stud selection table.



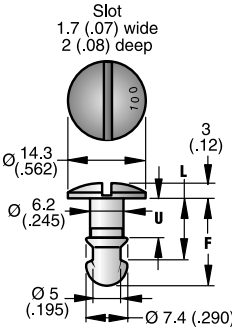
PART NUMBER
29-90-215-10



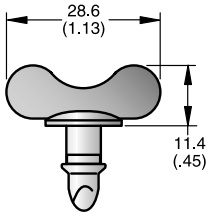
LARGE SERIES, STUD SELECTION TABLE

STAINLESS STEEL AVAILABLE

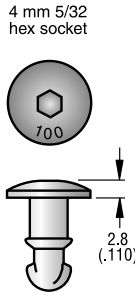
OVAL SLOTTED



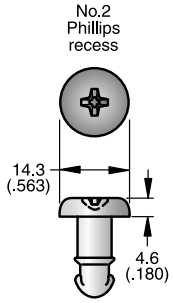
WING HEAD



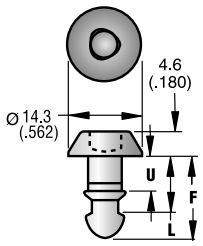
HEX SOCKET



PHILLIPS RECESS

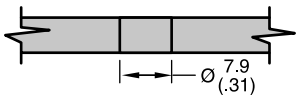


TOOLHEAD RECESS



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.

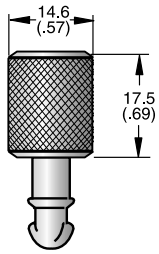
www.clancey.com

LARGE SERIES, RETAINERS

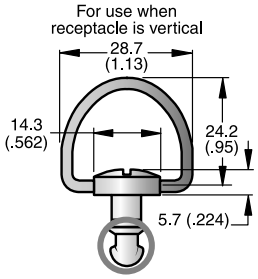
- Interactive configurator at www.clancey.com.

STAINLESS STEEL AVAILABLE

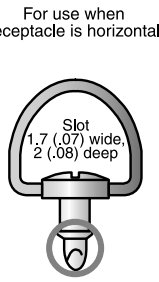
KNURLED HEAD



BAIL STYLE RB



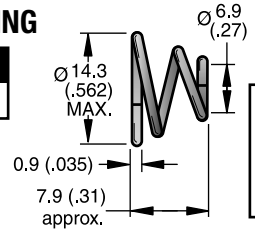
BAIL STYLE RA



STUD PART NUMBERS 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

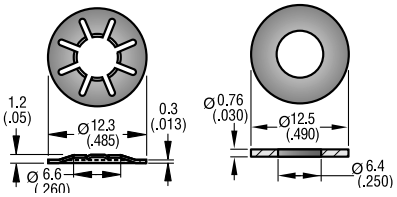
- When using an ejector spring and wear washer add 1.5 mm (.060") to your outer panel thickness or total material thickness.

Stainless

PART NUMBER
85-34-201-20

Nylon

PART NUMBER
85-34-301-12

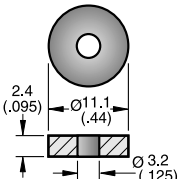


Use installation tool

PART NUMBER
85-0-22543-11

Neopreme

PART NUMBER
85-33-101-27



Install by hand

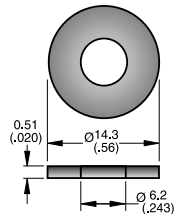
LARGE SERIES, ACCESSORIES

NYLON WEAR WASHERS

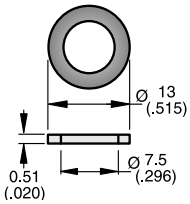
PART NUMBER	
Flat Natural	85-46-103-39
Cupped Natural	85-46-101-39
Cupped Black	85-46-101-41

SEALING WASHER

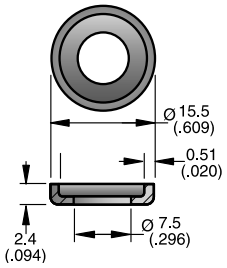
PART NUMBER
85-43-201-38

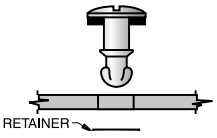


FLAT



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).**

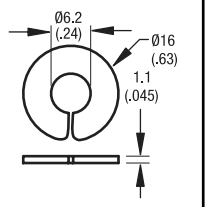
③ **Choose your stud head style.**

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.**

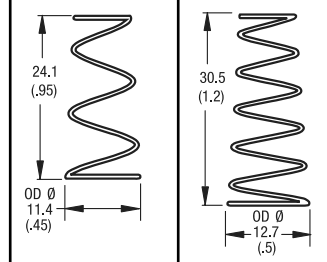
② **Retainer and accessories.**

PART NUMBER
Split Retainer
D1-004-000-010



ADJUSTMENT = .045" (1.1)

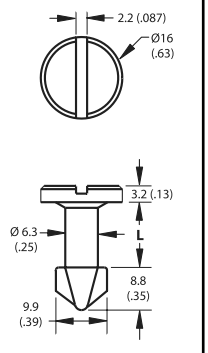
Accessory PART NUMBERS		
Self Ejecting Springs		Self Ejecting Cup
D1-X1135-2S	D1-X1137-2S	D1-X1129

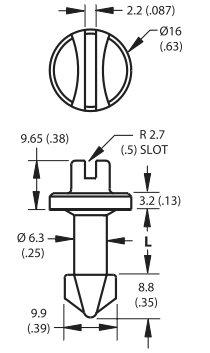


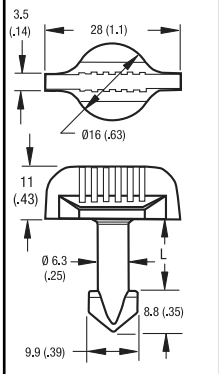
WHEN "LLL" = .045-.070 | WHEN "LLL" = .075-.100 | ADJUSTMENT = .090" (2.3)

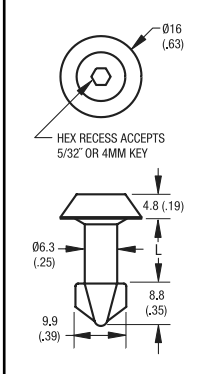
③ **Select head style.**

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

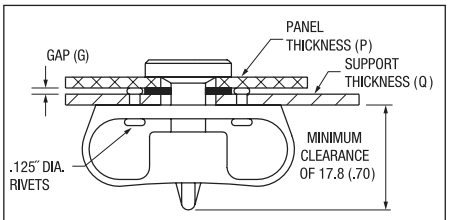


Figure 1: Total Material Thickness (TMT) = P + G + Q

TMT EXAMPLE

P	Outer panel	=	.060"
G	Gap	=	.080"
Q	Support (frame)	=	.060"
	using cup spring	=	.130"
			.330"

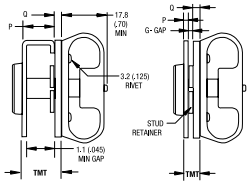
Use TMT to determine "LLL" on following page.

Note: Retainer falls in gap.

RIVET-ON RECEPTACLE

Rivet-In PART NUMBER	D1-004-001-010





TMT = P + Q

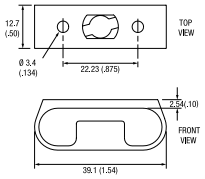
TMT= P + Q + G
G = 1.1 (.045) MIN

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:

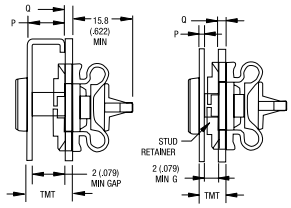
1. Gap thickness (G) is the stud retainer thickness. This part may be nested into recessed holes.
2. Add 1.1 (0.45) for a Split Retainer to your TMT calibration.
3. For use with Self-Ejecting Studs add 2.3 (.090) to your TMT calculation.



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

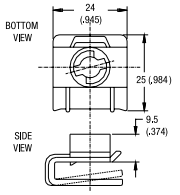
TMT= P + Q + G
G = 2 (.079)

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

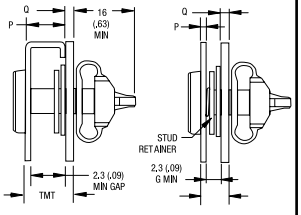
SNAP-IN FRONT LOAD

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.





TMT = P + Q

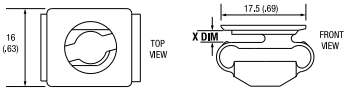
TMT= P + Q + G
G = 1.3 (.05) + Retainer Thickness

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

NOTES:

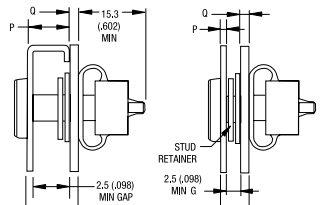
1. Gap thickness (G) is the combined thickness of receptacle top flange 1.1 (0.45) and stud retainer thickness. These parts may be nested into recessed holes.
2. Add 1.15 (0.45) for Split Retainer to your TMT calibration.
3. For use with Self-Ejecting Studs add 2.3 (.09) to your TMT calculation.



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

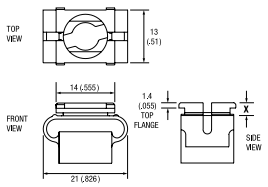
TMT= P + Q + G
G = 1.4 (.055) + Retainer Thickness

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



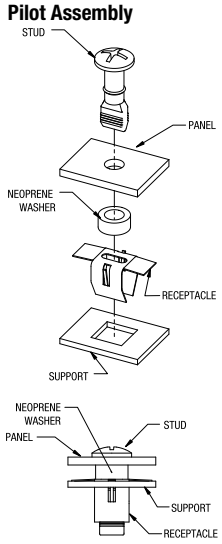
Standard



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

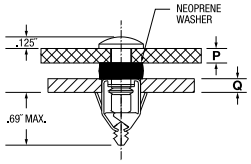
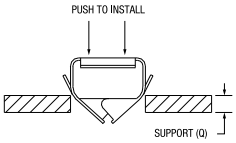
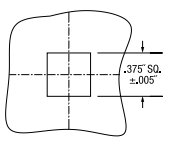
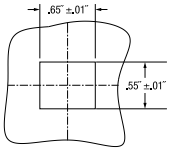


Figure 1:
P = Panel Thickness
Q = Support Thickness

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.

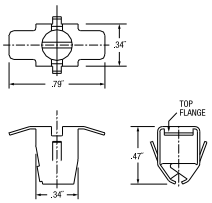
Step

Receptacle selection

STANDARD RECEPTACLE


Standard

Standard



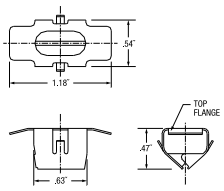
Support Thickness (Q)	Part Number
	Standard
.025″ to .049″	D7-285-101-161
.050″ to .069″	D7-285-102-161
.070″ to .089″	D7-285-103-161

LATERAL TOLERANCE RECEPTACLE

- **Provides ± .200" of lateral tolerance.**


Lateral Tolerance

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

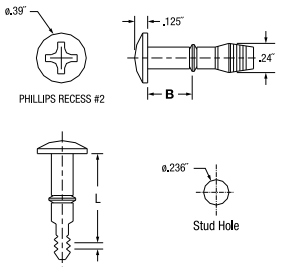
Pilot® Stud selection

STANDARD STUD & WASHER

NOTE: Order both stud & washer (2) part numbers.

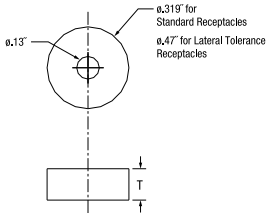
Standard Studs





Material: Case hardened steel
Finish: Zinc plate with black or bright chromate

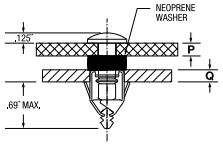
Washer



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

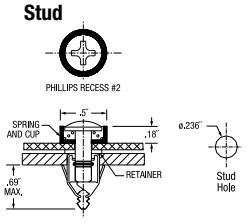
SELF-EJECT STUD

NOTE: Order both stud & retainer (2) part numbers.

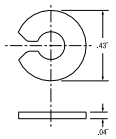
Self-Ejecting Studs



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

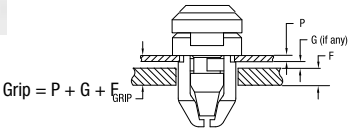
NON-CORROSIVE

- **Economical choice - low installed cost.**
- **Slotted or wing head option.**
- **Non-corrosive, non-conductive.**



Fastener Length Selection

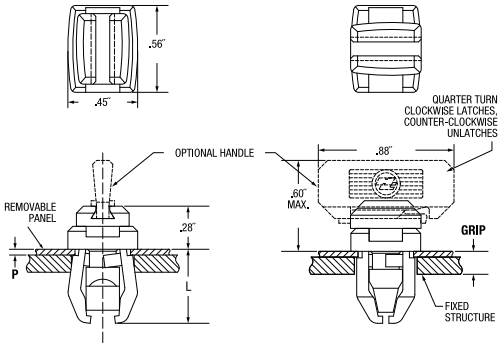
1. Calculate the Grip of your application. Grip is comprised of the removable panel thickness (P), support panel thickness (F) and any gap (G) caused panel lip, washer or gasket used between panels; see Figure 1.



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**

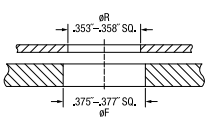
Optional Wing Handle for N6 Fasteners:

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.

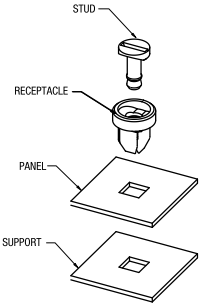


ARROW 1/4 TURN FASTENER

NON-CORROSIVE

- **3 head styles.**
- **Prongs expand 4 directions.**
- **Non-corrosive, non-conductive.**





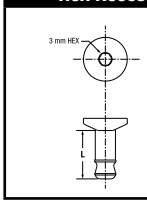
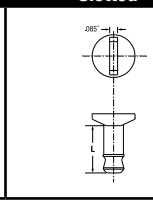
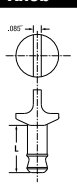
Material & Color

Material: Acetal copolymer resin
Color: Black

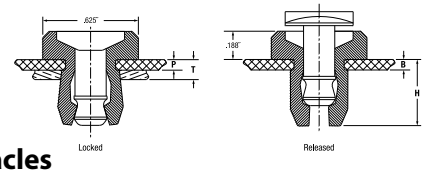
Fastener Selection

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

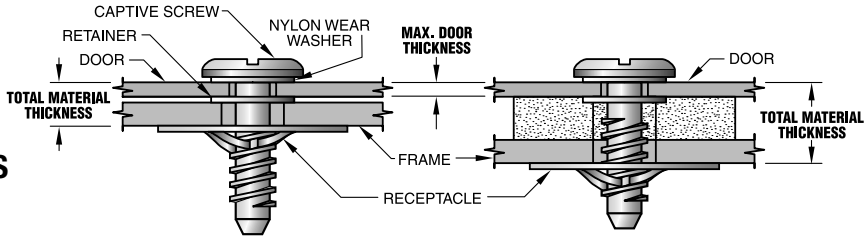
- Product configurator at www.clancey.com

HOW TO SELECT FAST-LEAD CAPTIVE SCREWS – ALL SIZES

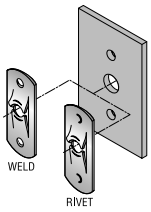
1. Choose a size: Small (09), Medium (12), or Large (17).
2. Determine panel configuration with dimensions.

_____ DOOR THICKNESS

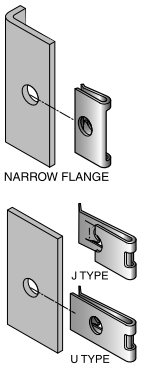
_____ TOTAL MATERIAL THICKNESS



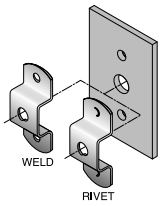
3. Choose a receptacle. Note: availability of styles differs with size (See pages 200, 202, 204)



FLAT TYPE
- Small envelope
- Available either rivet type or weld type
- Anywhere in frame



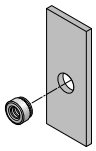
CLIP-ON TYPE
- Simple installation
- Ideal for near edge mounting



SADDLE TYPE
- Permits multiple screw assemblies on the same door while allowing one screw to fully retract from receptacle
- Rivet or weld type

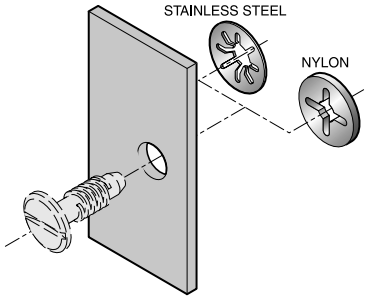


SIDE-MOUNT TYPE
- Permits mounting to plane surface perpendicular to door surface



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.

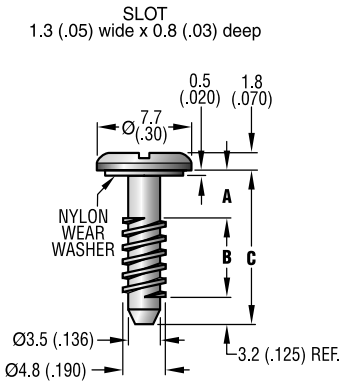
_____ + _____ = _____ ENTER IN COLUMN I

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).

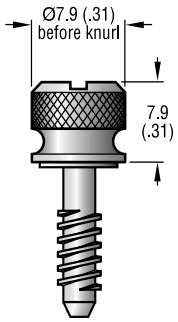
- **Product configurator at www.clancey.com.**
- **For limited space applications.**
- **Four head styles.**
- **Four receptacle styles.**
- **Vibration resistant.**

FAST-LEAD CAPTIVE SCREWS, SMALL SIZE

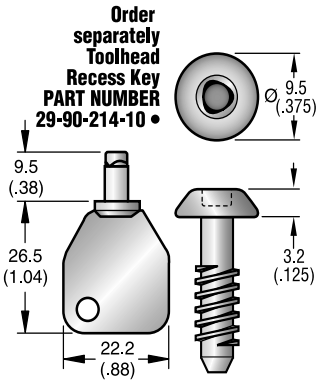
STAINLESS AVAILABLE



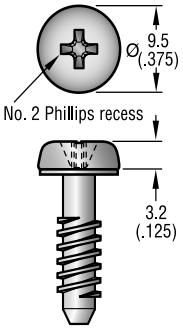
SLOTTED HEAD



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

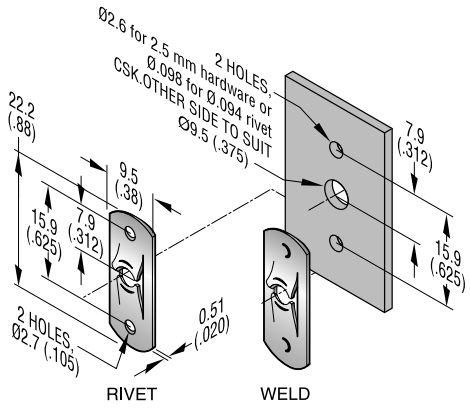
CAD POWERED
southco® AUTHORIZED DISTRIBUTOR

FAST-LEAD CAPTIVE SCREWS, RECEPTACLES, SMALL SIZE

- 4 styles, 5 mounting options.
- Stainless steel options.

STAINLESS STEEL AVAILABLE

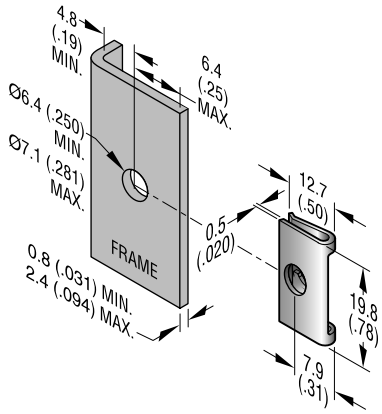
FLAT TYPE



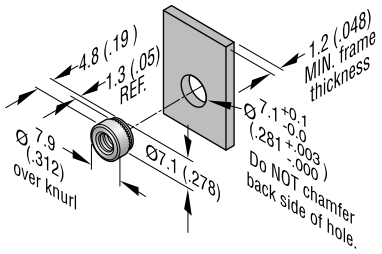
FLAT RECEPTACLE PART NUMBERS		
TYPE	MATERIAL AND FINISH	PART NUMBERS
RIVET	Spring steel, DACROSEALED†	09-41-101-11
	302 Stainless steel, passivated	09-41-101-24
WELD	302 Stainless steel, passivated	09-41-103-24

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

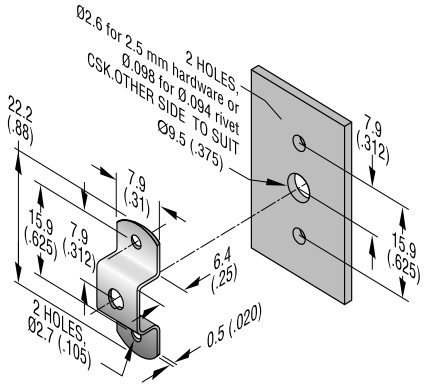


PRESS-IN



PRESS-IN RECEPTACLE PART NUMBER
Low carbon steel, case hardened and zinc plate, chromate plus sealer.
09-44-101-11

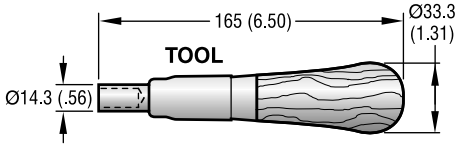
SADDLE TYPE

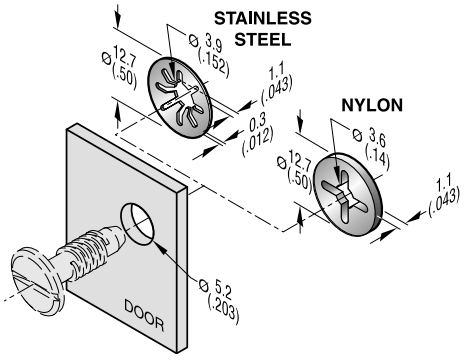


SADDLE-TYPE RECEPTACLE PART NUMBERS	
MATERIAL AND FINISH	PART NUMBERS
Spring steel, DACROSEALED†	09-42-101-11
17-7PH Stainless steel, passivated	09-42-101-24

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

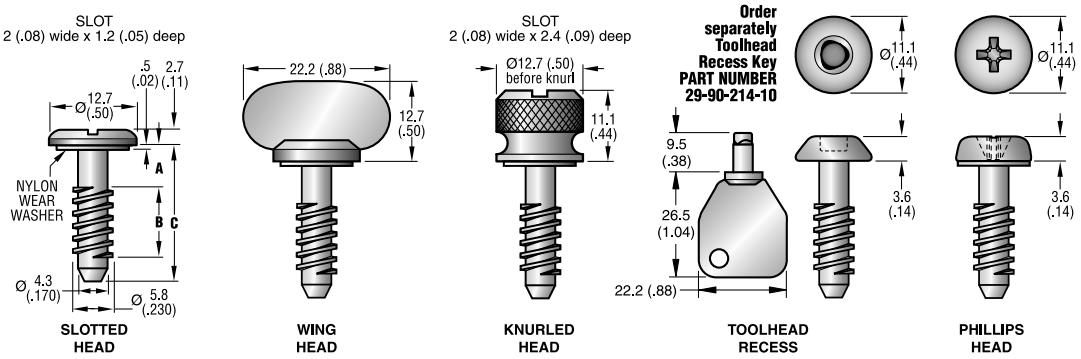




- **Product configurator at www.clancey.com.**
- **Widest range of configurations.**
- **Five head styles.**
- **Five receptacle styles.**
- **Vibration resistant.**

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

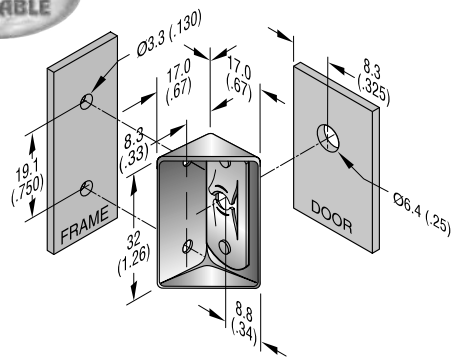
southco® AUTHORIZED DISTRIBUTOR

FAST-LEAD CAPTIVE SCREWS, RECEPTACLES, MEDIUM SIZE

- 5 styles, 9 mounting options.
- Stainless steel options.

STAINLESS STEEL AVAILABLE

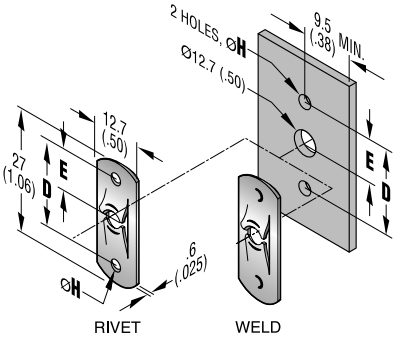
SIDE MOUNT



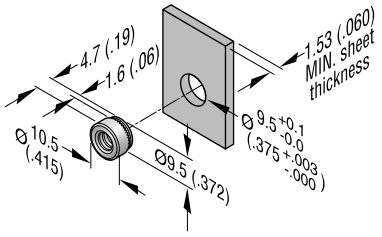
SIDE MOUNT RECEPTACLE PART NUMBER
Receptical: Steel, dacrotized † Bracket: Steel, zinc plate, Rivet: Aluminum
12-90-101-10

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



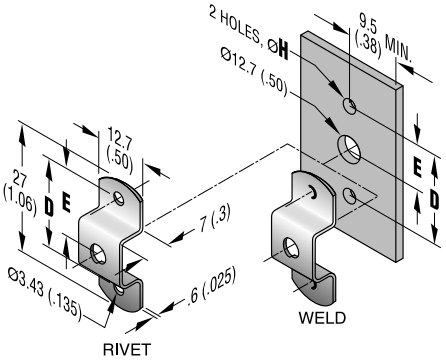
PRESS-IN



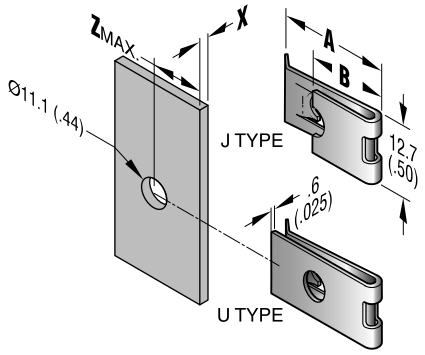
PRESS-IN RECEPTACLE PART NUMBER
Low carbon steel, case hardened and zinc plate, chromate plus sealer.
12-44-101-11

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

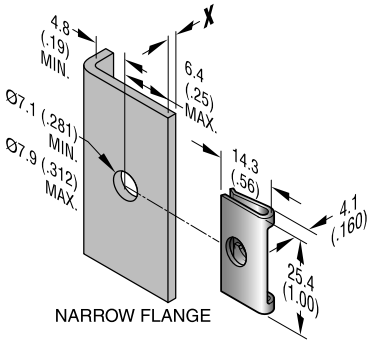


CLIP-ON



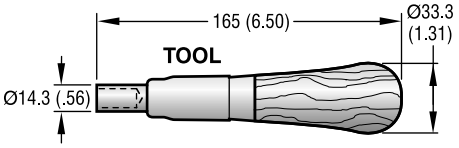
CLIP-ON RECEPTACLE PART NUMBERS						
TYPE	Material and Finish	X	A	B	Z max.	PART NUMBERS
J	1064 Steel, DACRO-SEALED†	.8 (.031)-2.8 (.109)	24.8 (.98)	14.9 (.59)	12.7 (.50)	12-11025-11
U		.8 (.031)-2.8 (.109)	25.9 (1.02)	14.9 (.59)	12.7 (.50)	12-11017-11
		2.8 (.109)-4.1 (.161)	25.9 (1.02)	14.9 (.59)	11.9 (.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

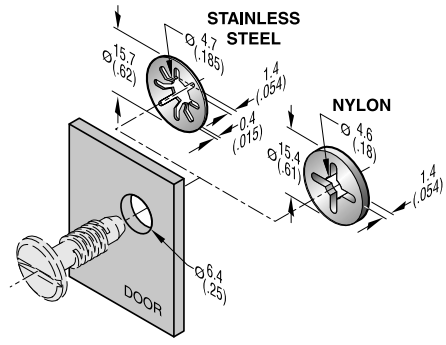
CLIP-ON



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

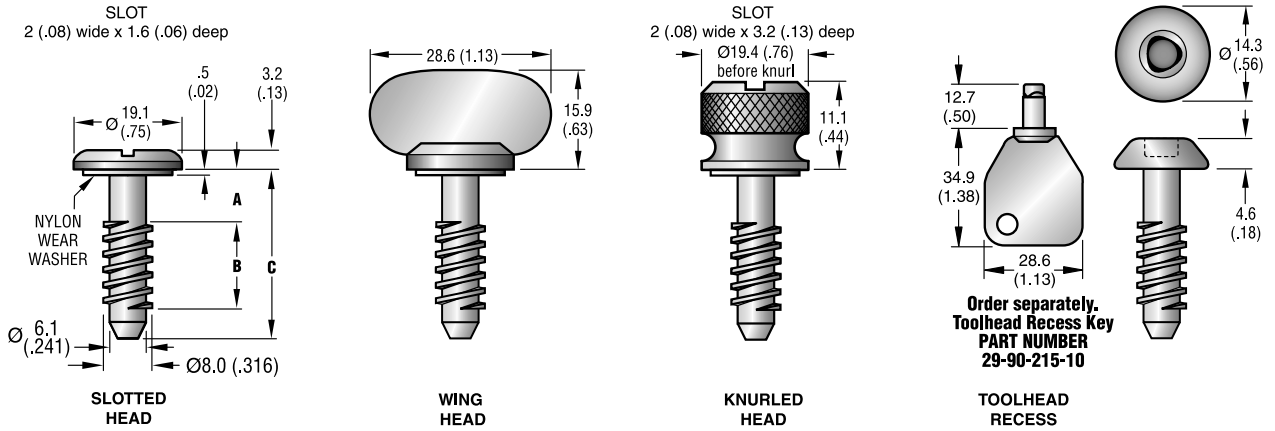




- **Product configurator at www.clancey.com.**
- **Robust assembly.**
- **Four head styles.**
- **Three receptacle styles.**
- **Vibration resistant.**

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

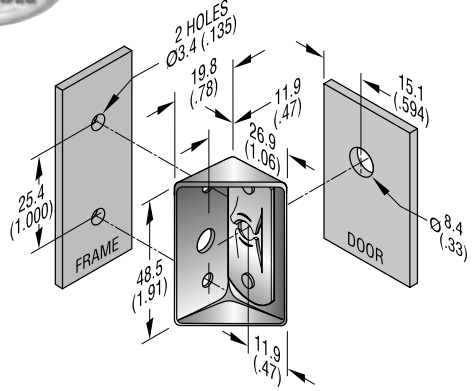
southco® AUTHORIZED DISTRIBUTOR

FAST-LEAD CAPTIVE SCREWS, RECEPTACLES, LARGE SIZE

- 3 styles, 4 mounting options.
- Stainless steel options.

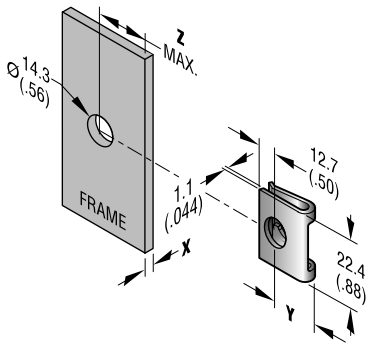
STAINLESS STEEL AVAILABLE

SIDE MOUNT



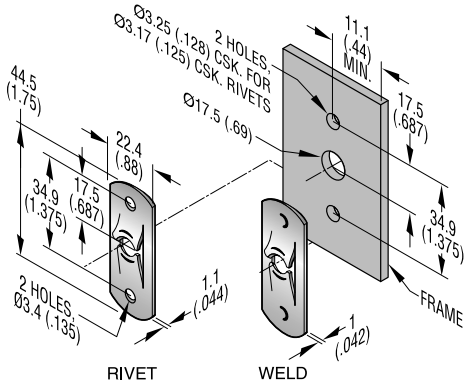
SIDE MOUNT RECEPTACLE PART NUMBER
Receptacle: Steel, dacrotized † Bracket: Steel, zinc plate Rivet: Aluminum
17-90-101-10

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

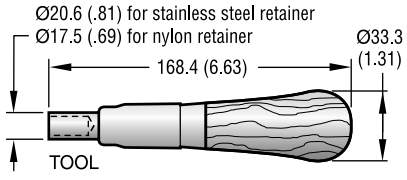


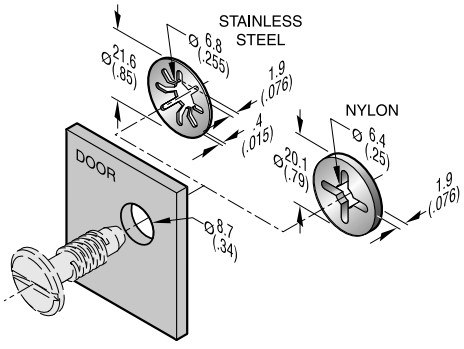
FLAT RECEPTACLE PART NUMBERS		
TYPE	**MATERIAL AND FINISH**	**PART NUMBERS**
RIVET	1064 Steel, DACROSEALED†	**17-10015-13**
	304 Stainless steel, passivated	**17-10015-14**
WELD	304 Stainless steel, passivated	**17-10016-11**

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

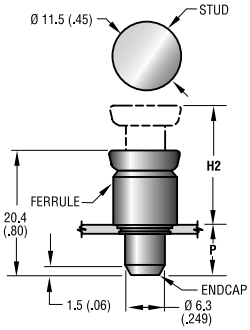
EXPANDED RANGE

- **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.**

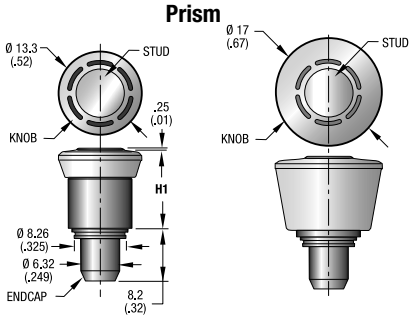
PRESS-IN STYLE



Bright



Prism



Add color in place of "-000" (see below)

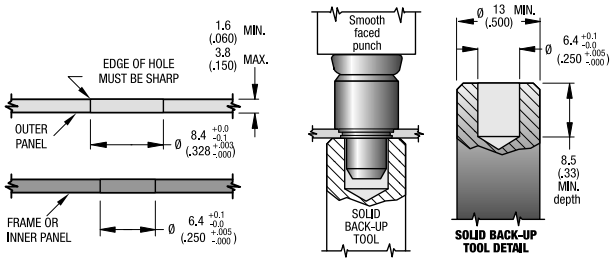
Panel Thickness		P	Knob Style	PART NUMBERS		H1 Closed	H2 Open
				Hold Open	Without Hold Open		
Min.	Max.						
1.52 (.06)	3.81 (0.15)	8.2 (0.32)	Bright	**56-61-15**	**56-60-15**	12.2 (.48)	19.3 (.76)
			Color - Small	**56-161-000**	**56-160-000**	13 (.51)	20 (.79)
			Color - Large	**56-261-000**	**56-260-000**	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

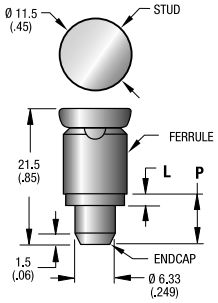


FLARE-IN STYLE

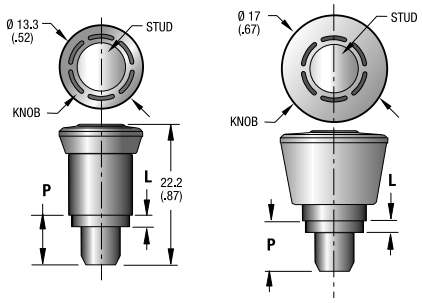


- **For panels .060" - .185" thick.**

Bright



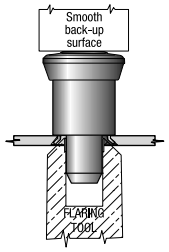
Prism



Add color in place of "-000" (see above)

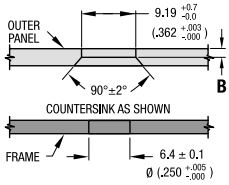
Outer Panel Thickness		P	Knob Style	PART NUMBERS		H1 Closed	H2 Open	B	L
				Hold Open	Without Hold Open				
Min.	Max.								
1.52 (.06)	3.17 (.125)	7.9 (.31)	Bright	**56-71-1-15**	**56-70-1-15**	13.7 (.54)	19.8 (.78)	0.41 (.016)	1.78 (.07")
			Color - Small	**56-171-1-000**	**56-170-1-000**	14.5 (.57)	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)		

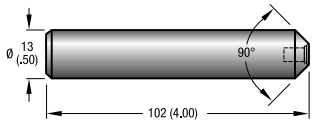
Installation



PART NUMBER
56-7-TOOL

Panel Preparation





southco®
AUTHORIZED DISTRIBUTOR

THREAD-IN STYLE

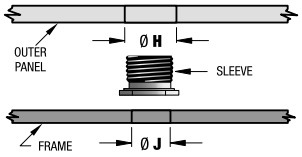
NSF



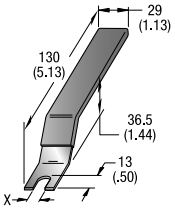
- Large knob with positive purchase.
- Two sizes.
- Easy installation – no press required.
- For panels .025" - .125" thick.

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

Panel Preparation and Installation

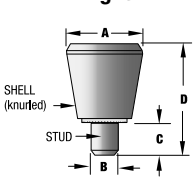


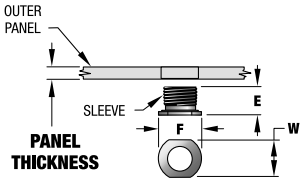
Installation Tool



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



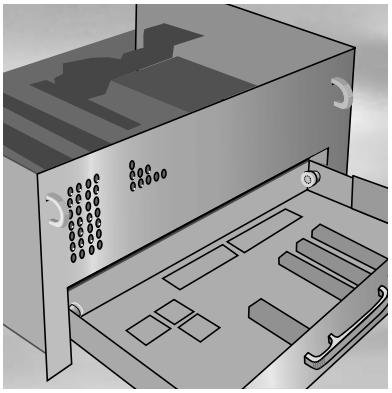


Series	Dimensions							PART NUMBERS	
	A	B	C	D	E	F	W	With hold-open feature	Without hold-open feature
300	13.5 (.53)	4.7 (.183)	6.5 (.25)	20 (.78)	6 (.22)	9 (.34)	7 (.28)	56-10-301-20	56-99-196-20
400	17.5 (.69)	6.3 (.245)	8 (.31)	26 (1.03)	7 (.28)	11.2 (.44)	9.4 (.37)	56-10-401-20	56-99-197-20

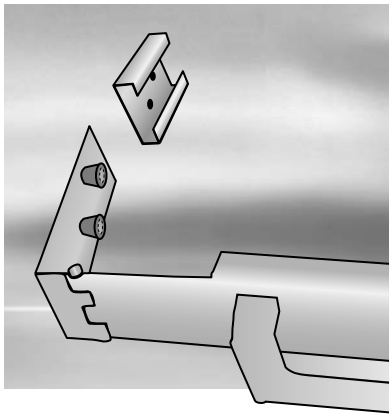
Potential Applications:



Retractable Hinge



Positioning/Secondary Catch



Quick Installation

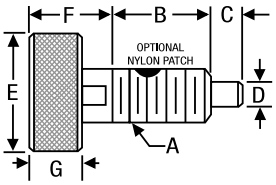
KNOB STYLE

- 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).

STAINLESS STEEL AVAILABLE

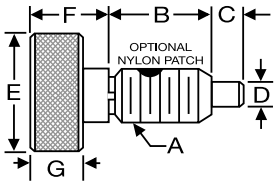
Locking (Positive Hold Open)





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.

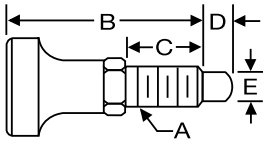
DELRIN KNOB STYLE

- Clean delrin knob with tapered undercut for easy pull.
- Locking or non-locking models.
- Nylon patch option allows firm thread engagement.

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"

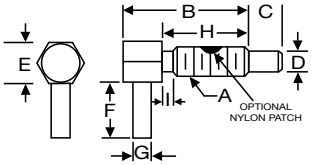
NOTE: Add "– NP" to the end of the part number for optional nylon patch. (not illustrated)

QUICK ACCESS FASTENERS
SPRING LOADED PLUNGERS

L-HANDLE STYLE

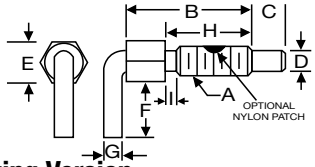
- **L-Handle can swing 360° in space restricted applications.**
- **Locking or non-locking.**
- **Also available in 316 stainless or with a nylon nose (please call).**





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"

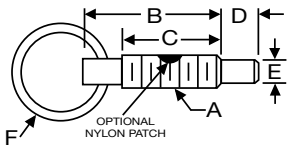
NOTE: Add "– NP" to the end of the part number for optional nylon patch.

RING PULL STYLE

- **Economical and easy to use.**
- **Non-locking "stubby" version has compact body.**

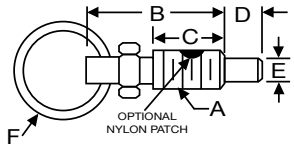
Locking





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)

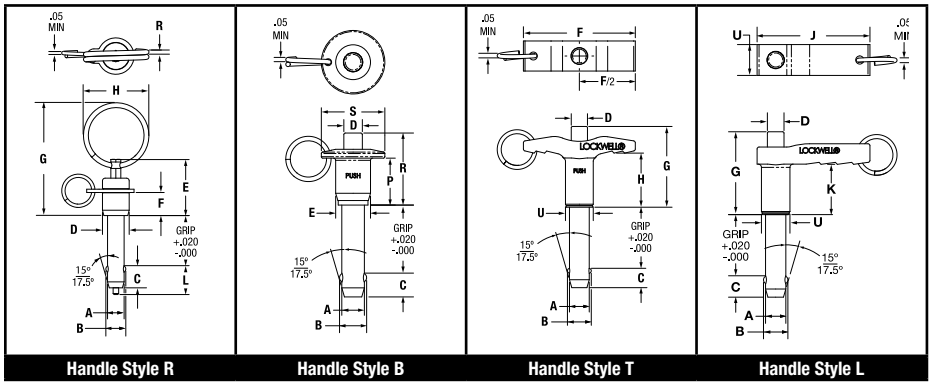
PART NUMBERS		THREAD SIZE "A"	BODY LENGTH "B"	THREAD LENGTH "C"	NOSE LENGTH "D"	NOSE DIAMETER "E"	RING DIAMETER "F"
STEEL, NICKEL PLATE	303 STAINLESS						
NON-LOCKING	NON-LOCKING						
SLP-RN250	**SLP-RN255**	1/4 - 20	.570"	.312"	.190"	.160"	.750"
SLP-RN380	**SLP-RN385**	3/8 - 16	.820"	.440"	.280"	.250"	.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:

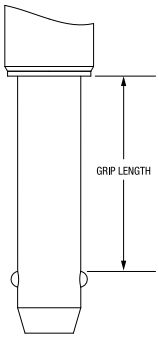
This is the load bearing area on the Lockwell quick-release pin and is measured from shoulder to the tangent point where the ball intersects the shank diameter.

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.

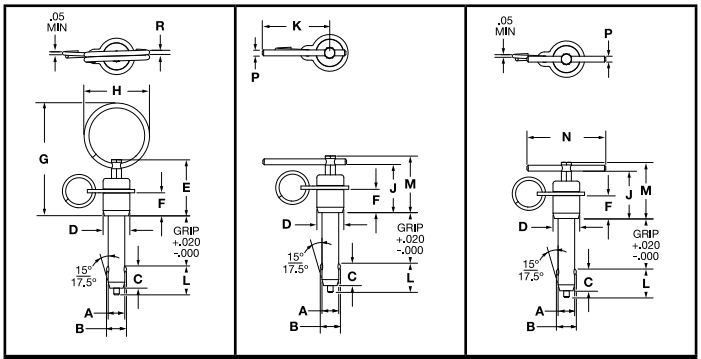
LOCKWELL® DOUBLE ACTING PINS

- **"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.

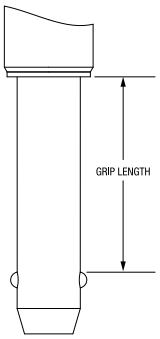
Material Note:
"C" = CRES is stronger than
"S" = 4130 alloy steel
See www.clancey.com for specific tensile and shear strength information for all shank sizes.

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

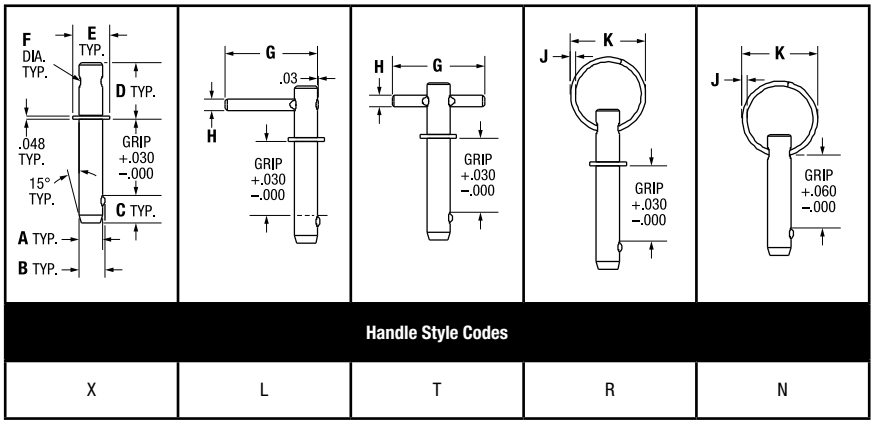
LH - 3 C T 300 D F M 750

- LH – Lockwell Double Acting Pins
- 3 – Shank Diameter Code – See Dimentions Table
- C – Material – = Alloy Steel, = CRES
- T – Handle Style – See Style Table
- 300 – Grip Length (Thousandth inch increments)
- D – **N** = Non-Drive Out, **D** = Drive Out (See note 3.)
- F – Ball Const. – **F** = 4-Ball Const. Omit for 2-Ball pin
- M – Used when manufactured to MS or NASM
- 750 – Longer Non-Standard "C" dim. (See Note 4.) Omit for standard "C" dim.

- **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

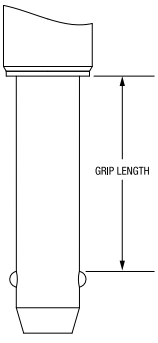
LR - * D T 1500

- 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)

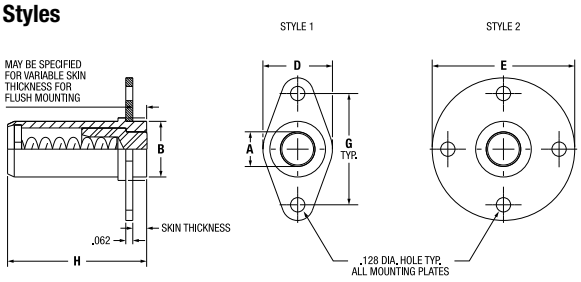
southco®
AUTHORIZED DISTRIBUTOR

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

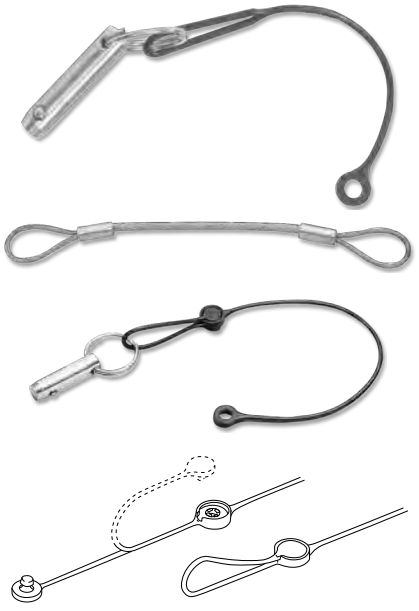
Choose a receptacle size that matches your pin shank diameter.
Use the same size code for your receptacle as your pin.

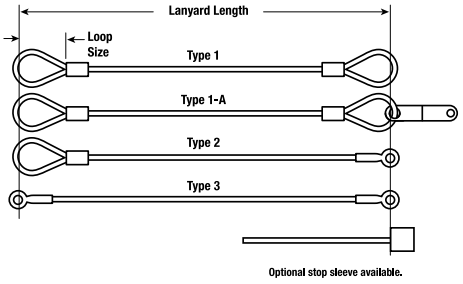
Pin Shank Dia.	Receptacle Size Code[1]	Dimensions					
		A Dia. +.001 –.000	B Dia. +.001 –.004	D	E Dia.	G	H
3/16	3	.190	.375	.625	1.281	1.000	1.25
1/4	4	.250	.375	.625	1.281	1.000	1.25
5/16	5	.312	.500	.625	1.281	1.000	1.25
3/8	6	.375	.625	.750	1.406	1.125	1.31

Note:
1. Use to complete part number.

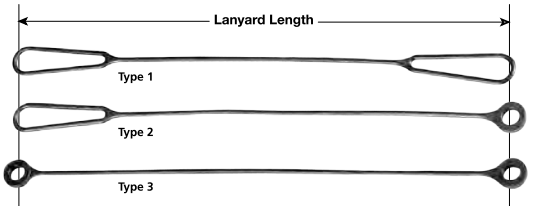
LANYARDS

- **Too many combinations to list them all.**
- **Quick turn around and competitive pricing.**





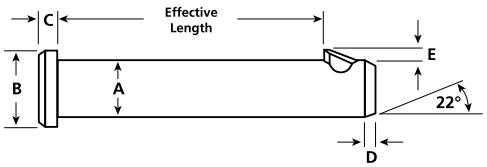
Material Options:
Molded nylon
steel cable
stainless cable
coated cables
chain
100's of end-fitting combinations.



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.

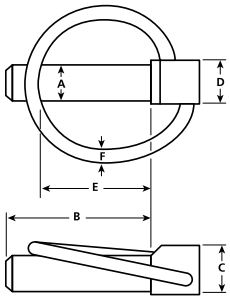


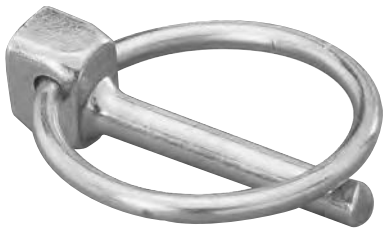
Strong spring-loaded plunger features easy insertion ramp. Vertical face at rear prevents backing out.

- **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

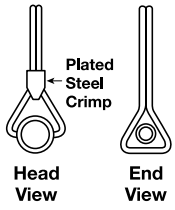
Finish:
Zinc plated and yellow chromate dipped.

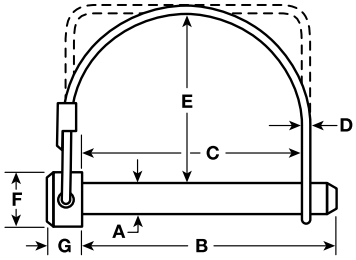
™Pivot-Point, Inc.

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

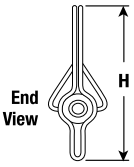
Finish:
Zinc plated

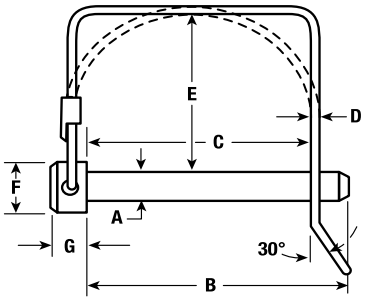
PART NUMBER	Pin Diameter "A"	Pin Length "B"	Effective Length "C"	Wire Diameter "D"	Loop Clearance "E"	Head Diameter "F"	Head Height "G"	Wire Loop Shape
77-WL-10R	.243"	2.00"	1.75"	.091"	1.63"	.562"	.312"	Round
77-WL-30S	.306"	2.75"	2.50"	.091"	1.75"	.625"	.312"	Square
77-WL-30R	.306"	2.75"	2.50"	.091"	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.

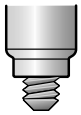
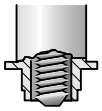
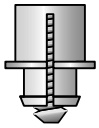
www.clancey.com

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. • Reduced camout & end load. • High-speed assembly. • 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

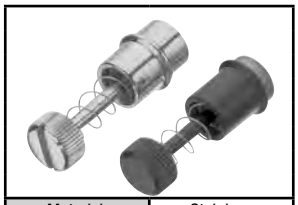
STAINLESS AVAILABLE

- **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"



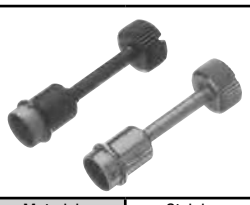
Material:	Stainless

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"



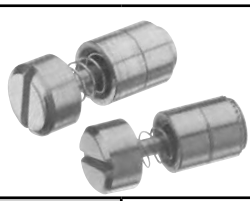
Material:	Hardened Steel

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"



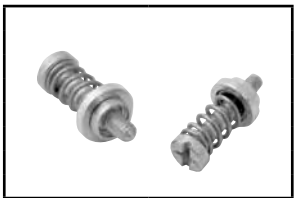
Material:	Stainless

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"



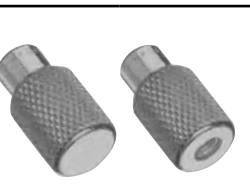
Material:	Hardened Steel

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



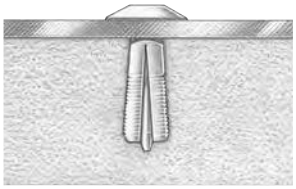
INSULATED PANELS



TUBULAR FRAME



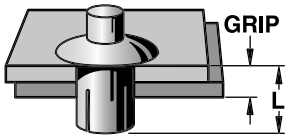
BLIND HOLE



INSTALLATION

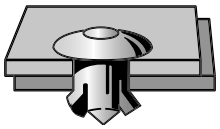
THRU HOLE APPLICATION

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.

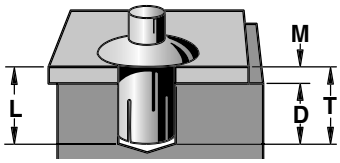


4. HIT THE PIN
   Drive pin flush with rivet head. Expanding prongs clinch sheets tightly, eliminating gaps.

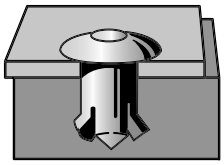
Suggested hole size for thru hole applications:

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.



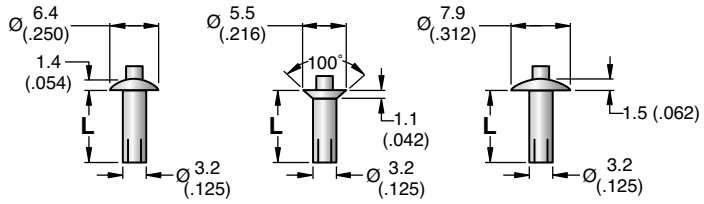
4. That's all. Attachment is complete. To remove, drill head off or, if hole is deep enough, drive pin through and pull rivet out.



GENERAL PURPOSE RIVETS

1/8" (3.2 mm) DIAMETER

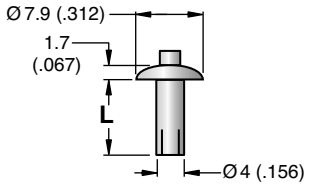




Material and Finish:
Rivet: Aluminum, natural
Pin: 302 Stainless steel, natural

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.

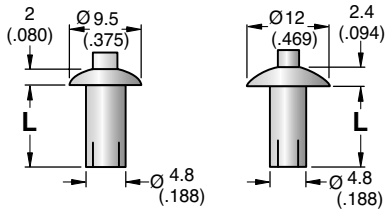
www.clancey.com

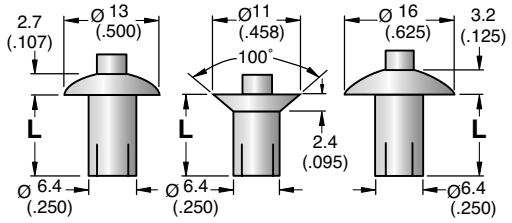
GENERAL PURPOSE RIVETS

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.

www.clancey.com

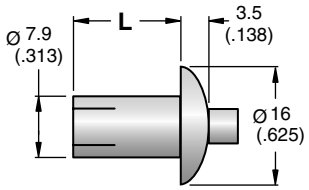
Material and Finish:

Rivet: Aluminum, natural

Pin: 7075 Stainless steel, natural

LARGE DIAMETER ALUMINUM RIVETS

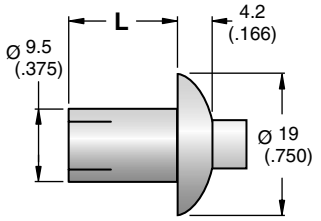
5/16" (7.9 mm) DIAMETER



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





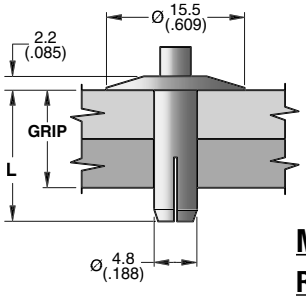
GRIP			L	PART NUMBERS
MIN.	NOM.	MAX.		Universal Head
3.2 (.125)	4.8 (.188)	6.4 (.250)	12.7 (.500)	38-112-06-16
5.5 (.219)	7.1 (.281)	8.7 (.344)	15.1 (.594)	38-112-09-16
7.9 (.313)	9.5 (.375)	11.1 (.438)	17.5 (.688)	38-112-12-16
10.3 (.406)	11.9 (.469)	13.5 (.531)	19.8 (.781)	38-112-15-16
12.7 (.500)	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

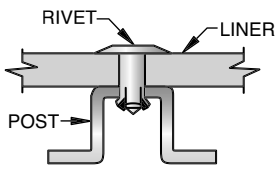


- Fast, efficient trailer lining
- Low profile, non-snag head design
- Six sizes

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



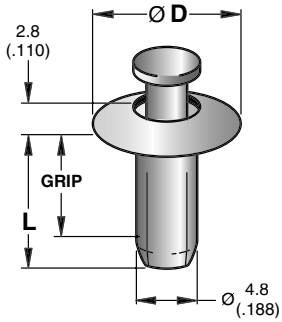
Material and Finish:
Rivet: 2117 Aluminum, natural
Pin: 7075 Aluminum, natural

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



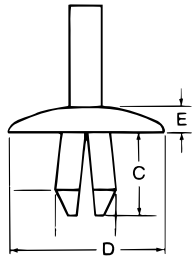
GRIP		L	PART NUMBERS	
MIN.	MAX.		Ø 12 (.468) Head	Ø 16 (.615) Head
1.9 (.075)	4.4 (.175)	7.1 (.281)	10-99-106-11	10-99-108-11
4.4 (.175)	7 (.275)	9.9 (.391)	10-99-106-12	10-99-108-12
7 (.275)	9.5 (.375)	12.3 (.484)	10-99-106-13	10-99-108-13
9.5 (.375)	12.1 (.475)	14.7 (.578)	10-99-106-14	10-99-108-14

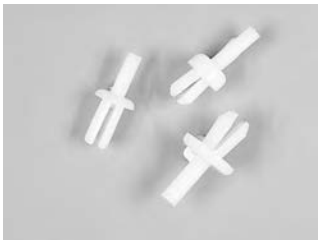


Material and Finish:
Rivet: 2117 Aluminum, natural
Pin: 5056 Aluminum, natural

- **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

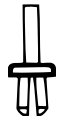
NON-CORROSIVE

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

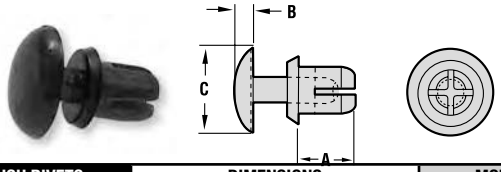
EXPANDED RANGE

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"

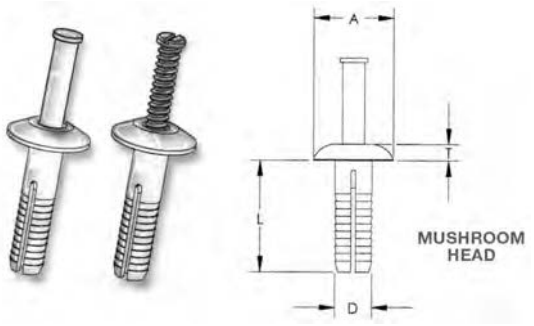
Material: Nylon **Flammability rating: 94V-2**
Color: Black

Try this part in your application Please call for samples.

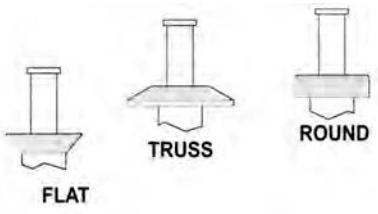
800-747-7405

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"	

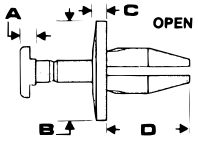


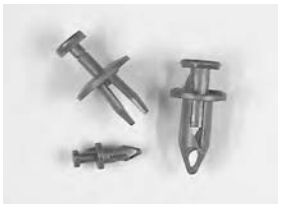
Material & Finish:
Body - Nylon, white
Pin - Nylon. white
- Steel, zinc plate

Head Style	Head Diameter "A"	Head Height "T"
Mushroom	.625"	.110"
Round	.438"	.125"
Truss	.625"	.110"
Flat	.438"	.108"

- **Installed by hand, or with automatic equipment.**
- **Removable.**
- **Re-usable.**
- **Vibration resistant.**

STANDARD TUFLOK®





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.

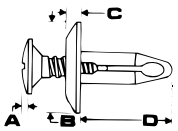
Material: Nylon
Colors: Black - custom available
Note: Listed dimensions are nominal

- **Quick, "push-action" installation.**
- **Easy removal with phillips screwdriver.**
- **Re-usable. • Vibration resistant.**

SCREW TYPE TUFLOK®

INCH

NON-CORROSIVE





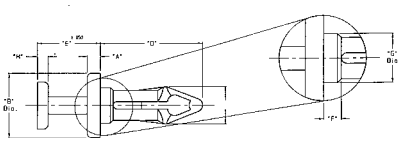
SCREW TYPE TUFLOK PART NUMBER	DIMENSIONS				MOUNTING	
	A	B	C	D	HOLE DIAMETER	GRIP RANGE
60018703	----	.380"	.060"	.720"	.175" - .187"	.330" - .390"
60018707	----	.380"	.060"	.720"	.181"	.380" - .440"
60050003	.098"	.433"	.118"	.689"	.197"	.098" - .138"
60060003	.043"	.472" sq.	.126"	.638"	.236" square	.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

- **Ideal for fastening electronic components to printed circuit boards.**
- **Can withstand up to 500˚ F in wave solder process.**

MICRO TUFLOK®



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



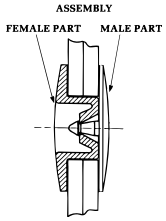
- Mating parts securely connect flat panels.
- Ideal for materials with variance, multiple layers, and compressible materials.

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





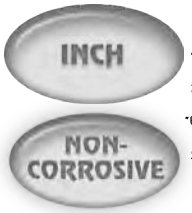


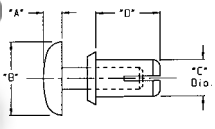
- Mating parts securely connect flat panels.
- Used extensively in the medical industry.
- Ideal for compressible materials.

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







- 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"

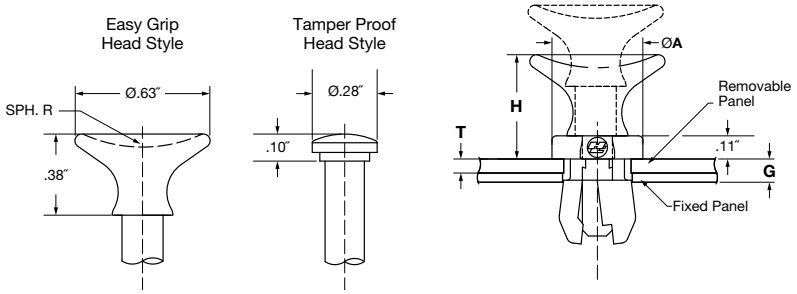
Material: Nylon 66
Color: Black
Notes: UL94 V-2 Rating
Listed dimensions are nominal

PANEL FASTENERS
DRIVE RIVETS

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:



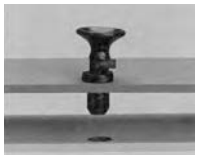
The 1-piece Nylatch® grommet and plunger are molded into a single unit.



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

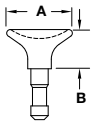
CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

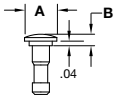
NYLATCH® 2-PIECE FASTENER

NON-CORROSIVE

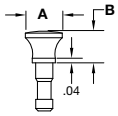




Easy Grip (-1)



Tamper Proof (-3)

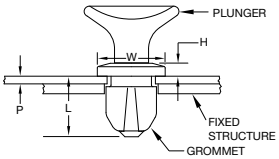


Mini Grip (-4)

- **Economical choice.**
- **3 head styles.**
- **Non-conductive, non-corrosive.**
- **Order plunger & grommet separately.**

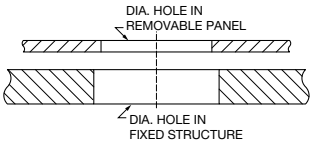
Assembly Dimensions

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

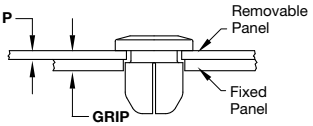
(see sizes below)



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

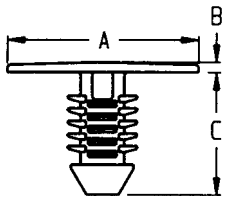
NY-WP-XX-Z-YY

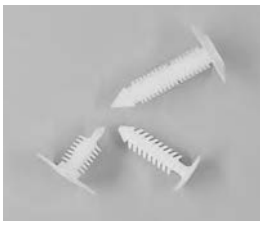
- Color & Material
  - **-50** = Black Nylon (UL 94 V-2)
  - **-51** = White Nylon (UL 94 V-2)
  - **-52** = Gray Nylon (UL 94 V-2)
  - **-60** = Black Polyester (UL 94 V-2)
  - **-62** = Natural Polyester (UL 94 V-0)
- Head Style (See Drawings)
  -1 = Easy Grip[1]
  -3 = Tamper Proof[2]
  -4 = Mini Grip
- Plunger Length Number[3]
  (See Grommet and Plunger Tables on Previous Pages)
- Series Size
  3=.188" Dia.
  4=.250" Dia.
  5=.313" Dia

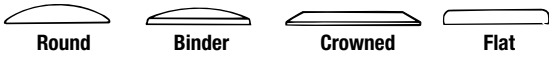
- **Wide variety of head diameters, installation hole sizes, and grip ranges.**
- **Easy to install by hand.**
- **Very secure.**
- **Accommodates tolerances in panel thickness.**

CHRISTMAS TREE™ CLIPS

NON-CORROSIVE

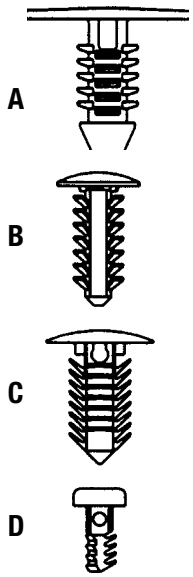






Head Styles

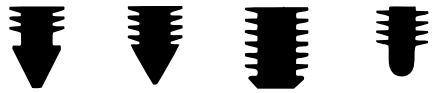
Prong Style



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.

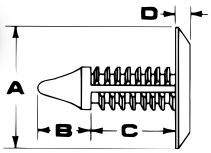
Color: Natural, black - custom available.

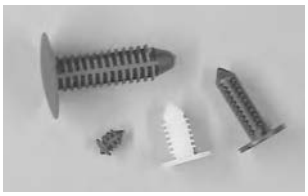
Note: Listed dimensions are nominal

™ ITW Fastex

PINE TREE CLIP® REMOVABLE STYLE

NON-CORROSIVE

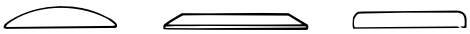




- **Patented design assures that retaining fins will not be damaged or distort upon removal.**
- **Removable feature excellent for field use.**
- **Easy to install by hand.**

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



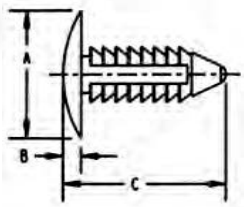
Round Flat Crowned

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.

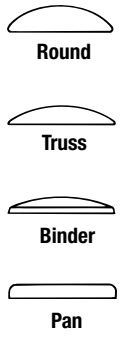
® ITW Fastex

- **Cost-effective, lightweight panel fastener.**
- **Easy, hand installation in round hole.**
- **Non-corrosive material.**

CANOE® CLIPS

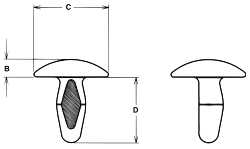
CANOE CLIP PART NUMBER	DIMENSIONS			MOUNTING		HEAD STYLE
	HEAD HEIGHT "B"	HEAD DIAMETER "C"	PRONG LENGTH "D"	HOLE DIAMETER	GRIP RANGE	
254-080845-00	.040"	.270"	.330"	.123" - .127"	.080" - .100"	BINDER
254-090401-00	.150"	.406"	.275"	.131" - .141"	.060" - .090"	ROUND
254-090501-00	.100"	.406"	.365"	.131" - .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



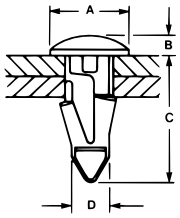
Material: Nylon **Color: Natural, black - custom available**

- **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"





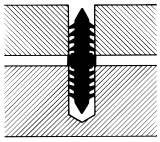
NON-CORROSIVE

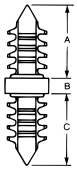
Material: Nylon **Color: Natural**

DOUBLE-END CHRISTMAS TREE™

NON-CORROSIVE

- **Completely blind.**
- **Secure and non-corrosive.**





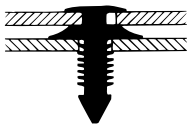
DOUBLE END PART NUMBER	"A" SIDE MOUNTING		HEAD HEIGHT "B"	"B" SIDE MOUNTING	
	HOLE DIA.	GRIP RANGE		HOLE DIA.	GRIP RANGE
354-201960-00	.320"	.125" - .375"	.040"	.320"	.140" - .750"
354-162200-00	.156"	.105" - .250"	.067"	.156"	.105" - .250"
2610-00	.250"	.020" - .270"	.110"	.250"	.020" - .270"
2627-00	.320"	.095" - .300"	.040"	.320"	.095" - .300"

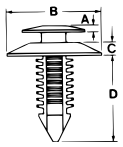
Please Call for Additional Dimensions or Samples

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"

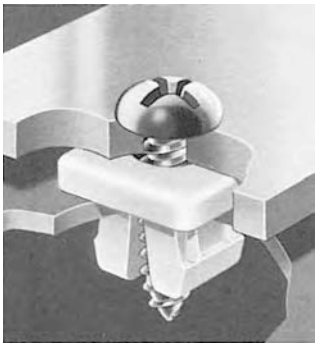
® ITW Fastex

PANEL FASTENERS
SCREW GROMMETS

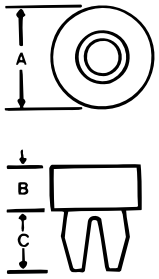
PLASTI-GROMMETS™

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.

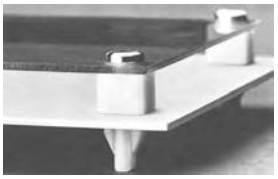
www.clancey.com

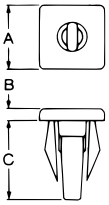
™ ITW Fastex

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





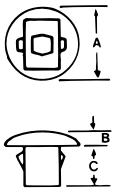
ENCLOZ SCREW GROMMETS PART NUMBER	DIMENSIONS			MOUNTING		SCREW SIZE
	HEAD SIZE "A"	HEAD HEIGHT "B"	PRONG LENGTH "C"	HOLE SIZE	PANEL THICKNESS RANGE	
217-180502-22	.380" SQUARE	.125"	.490"	.273" SQUARE	.020" - .140"	8 or 10
217-180502-24	.380" SQUARE	.250"	.480"	.273" SQUARE	.020" - .140"	8 or 10
217-180502-26	.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



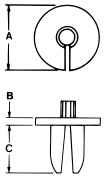


ENCLOZ REVERSE SCREW GROMMETS PART NUMBER	DIMENSIONS			MOUNTING		SCREW SIZE
	HEAD SIZE "A"	HEAD HEIGHT "B"	PRONG LENGTH "C"	HOLE SIZE	PANEL THICK-NESS RANGE	
212-320602-01	.500" DIAMETER	.095"	.397"	.250" x .343"	.040" - .060"	8
212-320334-00	.500" DIAMETER	.100"	.525"	.312" x .343"	.062" - .092"	8

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

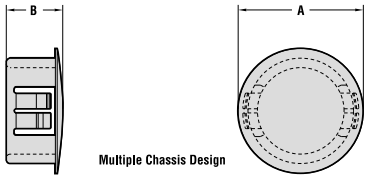
* panel hole size will vary with panel thickness

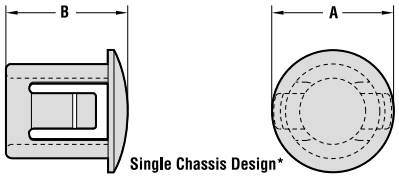
Material: Nylon
Color: Natural
Note: Listed dimensions are nominal

® ITW Fastex

PANEL FASTENERS
HOLE PLUGS







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

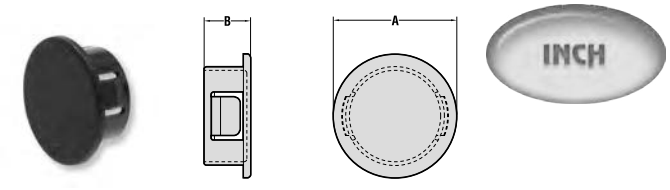
DOME PLUGS

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

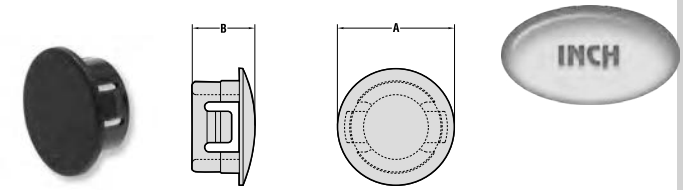
PRY-OUT PLUGS



- **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

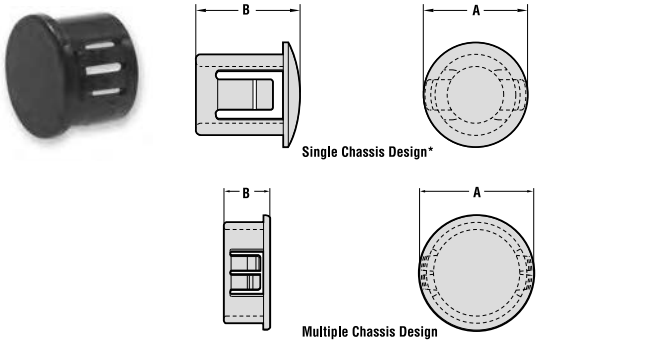


- **Limited internal protrusion.**
- **Locks firmly in panel.**
- **Quick, easy hand installation.**

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

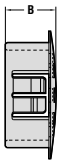
PANEL FASTENERS
HOLE PLUGS

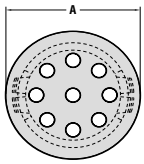
VENT PLUGS

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"

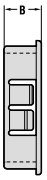
Material: Nylon
Certifications: E-15331
LR-8919
Flammability rating: 94V-2

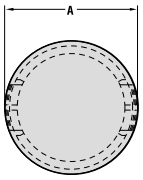
WINDOW PLUGS

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

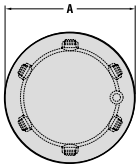
INSULATION PLUGS

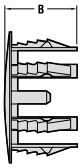
INCH

- 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







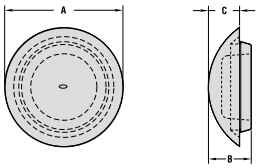
PART NUMBER		DIMENSIONS		MOUNTING	
BLACK	WHITE	HEAD DIAMETER "A"	OVERALL HEIGHT "B"	MAXIMUM PANEL THICKNESS	HOLE DIAMETER
3149	3150	1.234"	.687"	NO MAX.	1.000"

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"

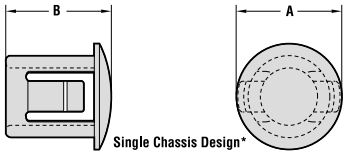
Material: Santoprene 251-80
Certifications: E-28430
LR-81067
Flammability rating: 94V-0

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"

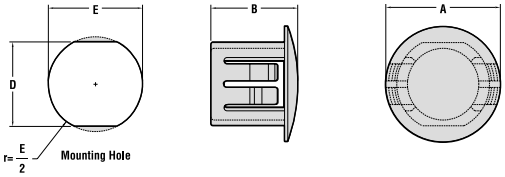
Material: Santoprene 251-80
Certifications: E-15331
LR-8919
Flammability rating: 94V-2

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"

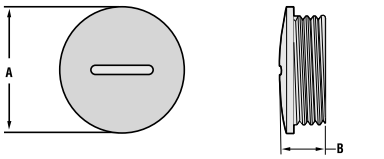
Material: Nylon
Flammability Rating: 94V-2
Certifications: E-15331
LR-8919

PG THREADED PLUGS

- Threads into standard "PG" conduit threads.
- Slotted head for easy installation/removal.

INCH

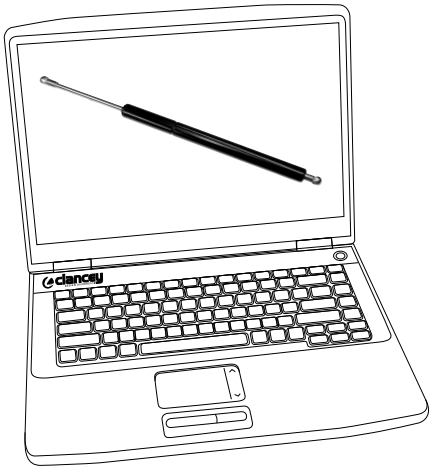




THREAD TYPE/SIZE	PART NUMBER	HEAD DIAMETER "A"	OVERALL HEIGHT "B"
PG 7	3405	.551" (14 mm)	.315" (8 mm)
PG 9	3407	.787" (20 mm)	.354" (9 mm)
PG 11	3402	.866" (22 mm)	.354" (9 mm)
PG 13	3412	.984" (25 mm)	.374" (9.5 mm)
PG 16	3414	1.06" (27 mm)	.374" (9.5 mm)
PG 21	3416	1.30" (33 mm)	.472" (12 mm)
PG 29	3418	1.73" (44 mm)	.472" (12 mm)

Material: Polymide 6.6
Color: Gray

CLANCEY – THE LEADER IN DESIGNING GAS SPRING SOLUTIONS

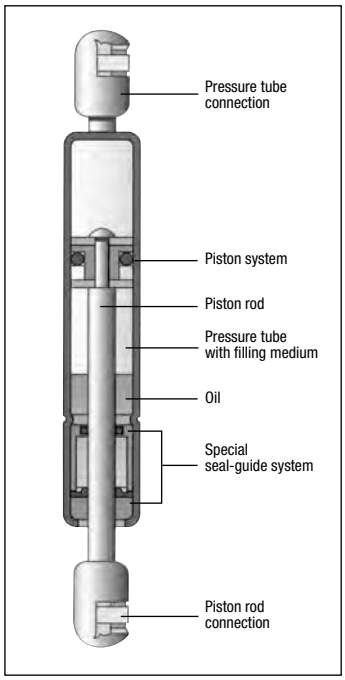


Computer Validated Design Assistance

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.

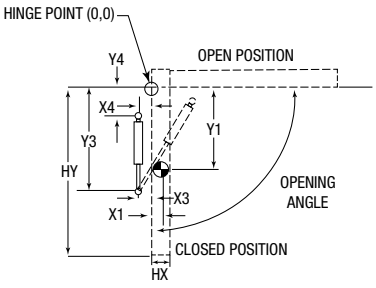
APPLICATION DEVELOPMENT

Section 1 - Customer and Project Information

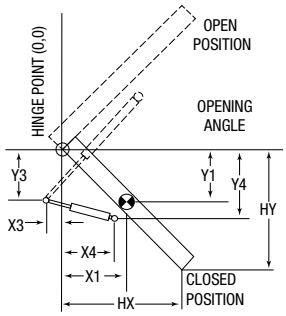
Company Name:	Project Name/Number:
Engineering Contact:	Application Description:
E-mail Address:	Estimated Number of Units Annually:
Phone:	Start of Production Date:

Section 2 - Application Type (Select One of Four Options)

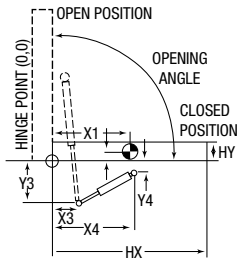
❑ **VERTICAL DOOR**



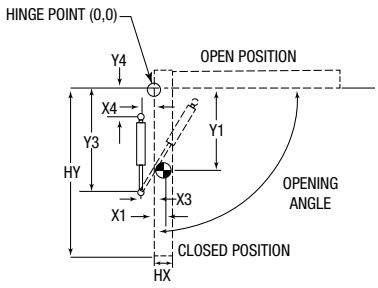
❑ **OFFSET DOOR**



❑ **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: _____

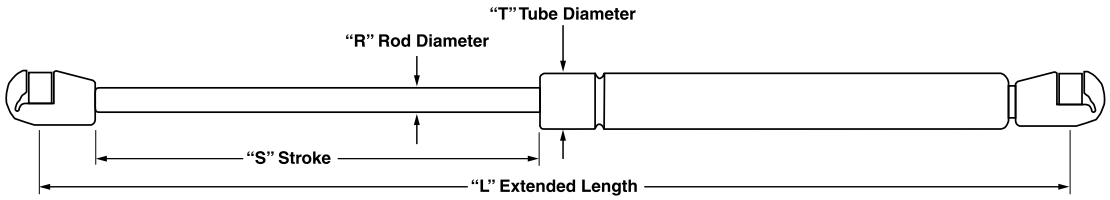
DOOR ASSISTS
COMPOSITE END GAS SPRINGS

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

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.

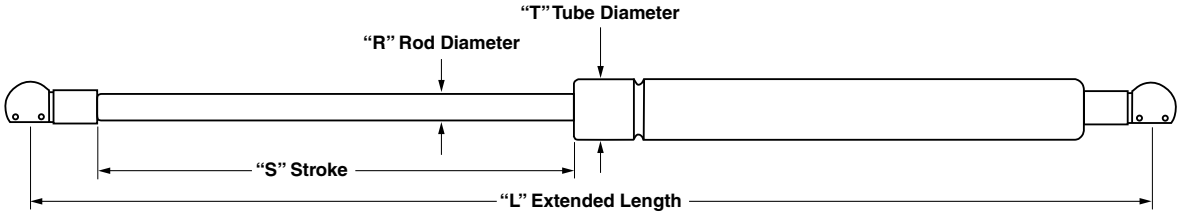
CLANCEY RESOURCES

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.

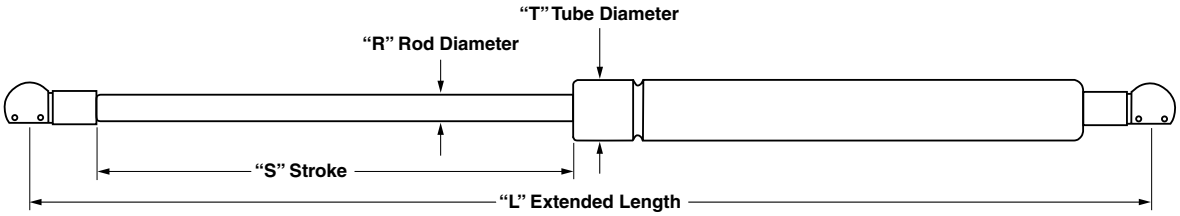
Be sure to get the maximum life from it. Have our applications specialist run a computer simulation of your design for maximum performance.

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

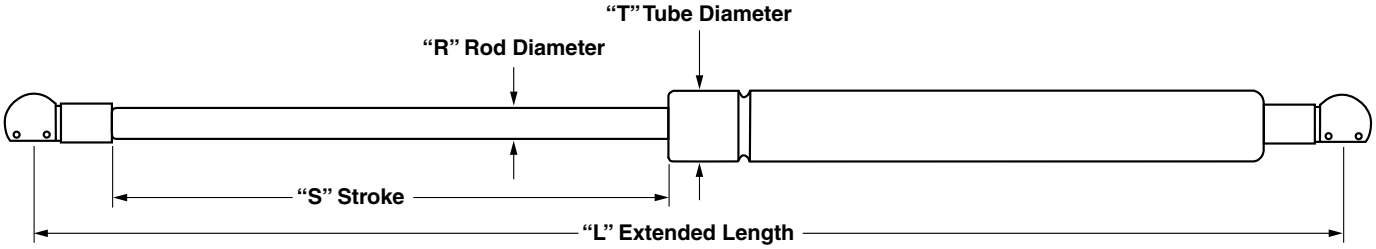
Be sure to order 2 safety clips per gas spring.



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

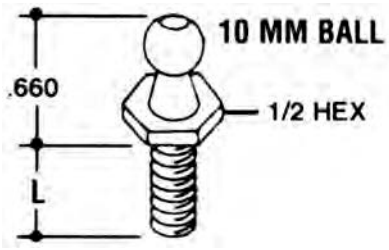
EXPANDED RANGE

STANDARD BALL STUDS
10 MM

- **Used in the majority of applications.**
- **Heat treated for additional strength.**
- **Custom sizes and finishes are available.**

STAINLESS AVAILABLE



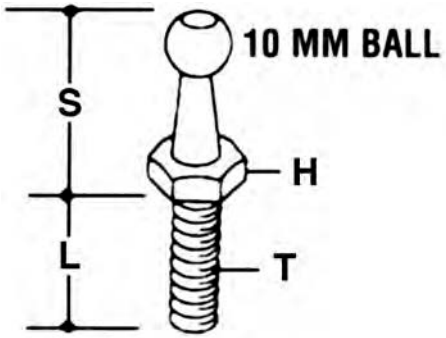


PART NUMBER	THREAD SIZE	THREAD LENGTH "L"	MATERIAL, FINISH
BS-100-0375	1/4-20	.375"	STEEL, ZINC PLATE
BS-100-0540	5/16-18	.540"	STEEL, ZINC PLATE
BS-105-0540	5/16-18	.540"	STAINLESS STEEL, PLAIN
BS-100-0750	5/16-18	.750"	STEEL, ZINC PLATE
BS-100-1000	5/16-18	1.00"	STEEL, ZINC PLATE

EXTENDED STANDOFF BALL STUDS
10 MM

- **For applications where extra clearance is required.**

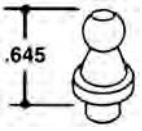
All models feature 10 MM ball



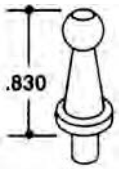
PART NUMBER	THREAD SIZE "T"	THREAD LENGTH "L"	STAND-OFF HEIGHT "S"	HEX SIZE "H"	MATERIAL, FINISH
BS-125-0750	5/16-18	.750"	.880"	7/16	STEEL, ZINC PLATE
BS-160-0625	5/16-18	.625"	.765"	1/2	STEEL, ZINC PLATE
BS-201-0375	1/4 - 28	.375"	.820"	7/16	STEEL, ZINC PLATE
BS-203-0562	1/4 - 28	.562"	.937"	7/16	STEEL, ZINC PLATE

- **For riveting to your bracket or assembly.**

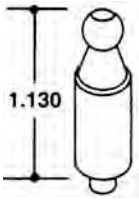
RIVETABLE BALL STUDS
10 MM



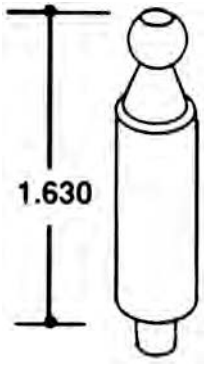
PART NUMBER
BSR - SB



PART NUMBER
BSR - LB



PART NUMBER
BSR - SP



All models feature 10 MM ball

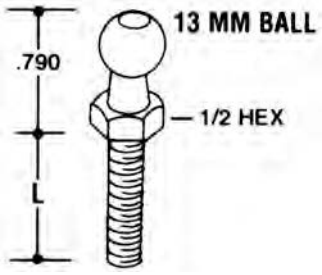
PART NUMBER
BSR - XLB

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

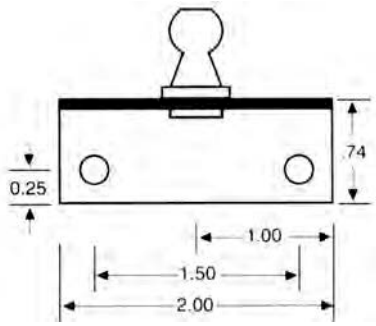


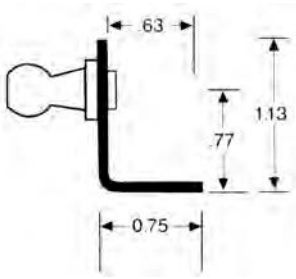


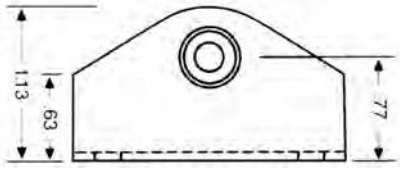
DOOR ASSISTS
BALL STUD BRACKETS

90 DEGREE BRACKETS

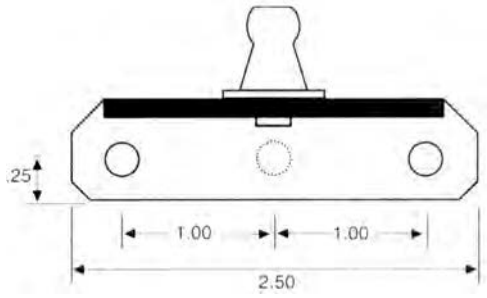
- Used for mounting gas springs.
- Can be assembled forward or reversed.
- Steel, stainless or aluminum available.
- Available w/o holes or finish for welding to your assembly.

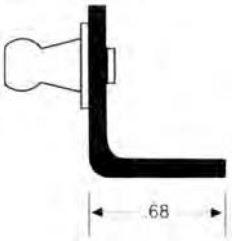


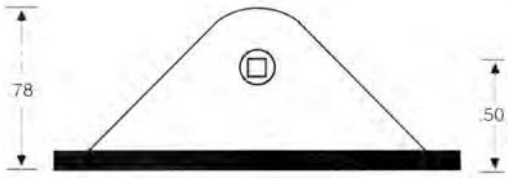




PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-52-115	14 GAUGE (.074")	.203"





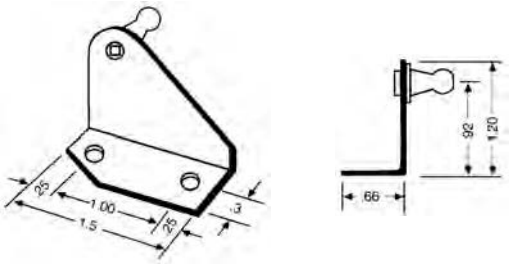


PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-52-169	14 GAUGE (.074")	.203"

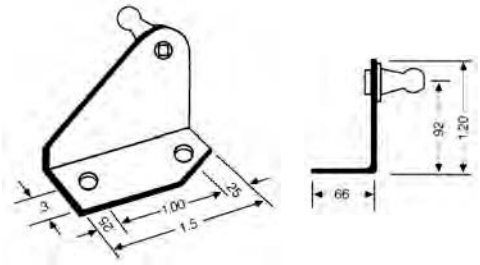
90 DEGREE BRACKETS

STAINLESS AVAILABLE

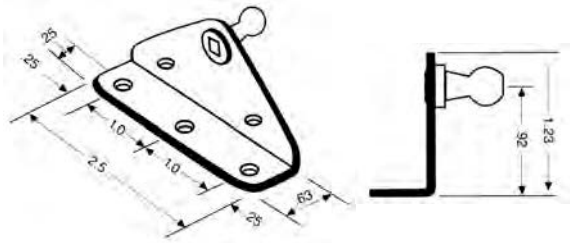
ALUMINUM AVAILABLE



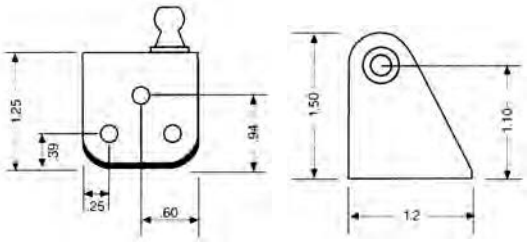
PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-52-155	14 GAUGE (.074")	.203"



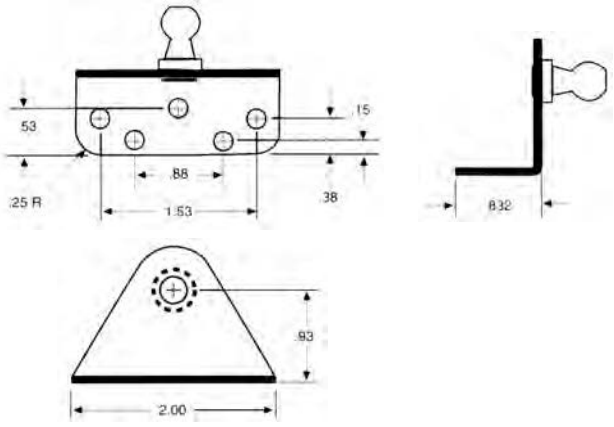
PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-52-255	14 GAUGE (.074")	.203"



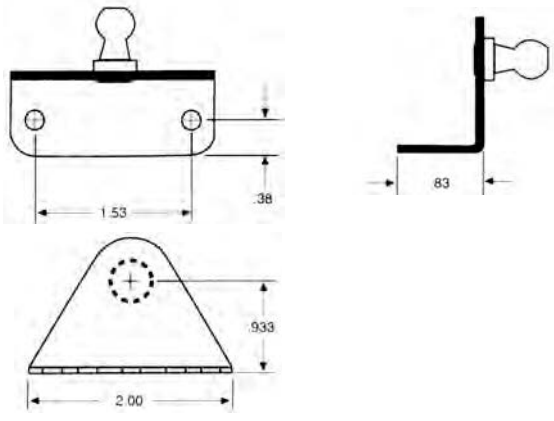
PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-52-149	13 GAUGE (.090")	.203"



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"

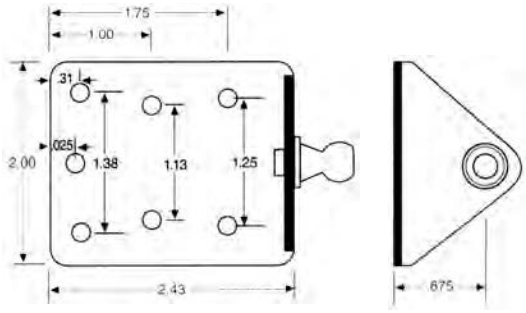
DOOR ASSISTS
BALL STUD BRACKETS

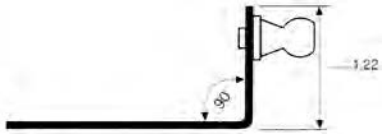
EXPANDED RANGE

90 DEGREE BRACKETS

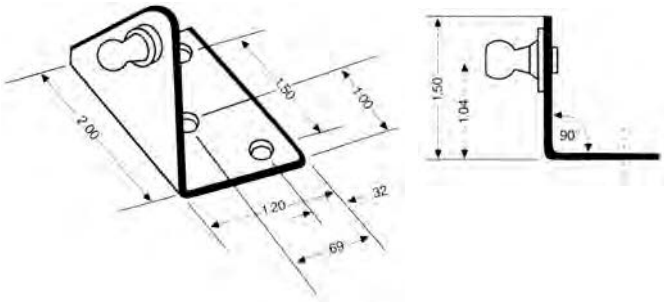
STAINLESS AVAILABLE

ALUMINUM AVAILABLE

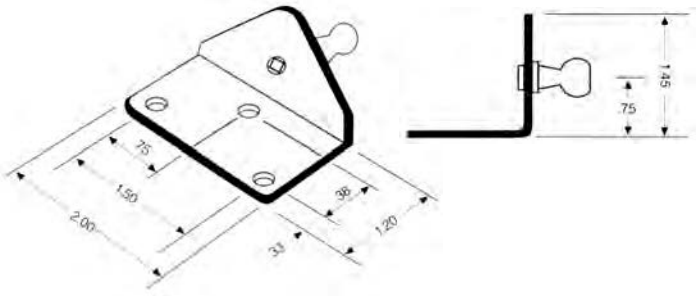




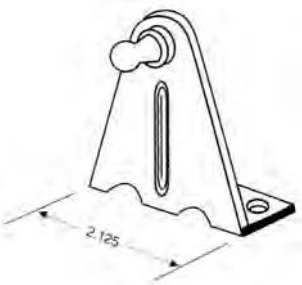
PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-52-132	13 GAUGE (.090")	.203"

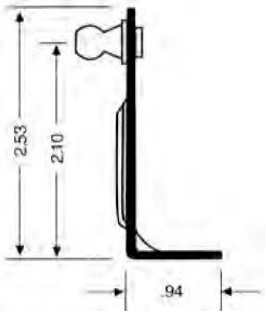


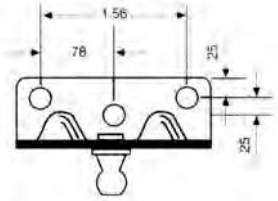
PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-72-180	12 GAUGE (.105")	.203"



PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-52-185	12 GAUGE (.105")	.203"







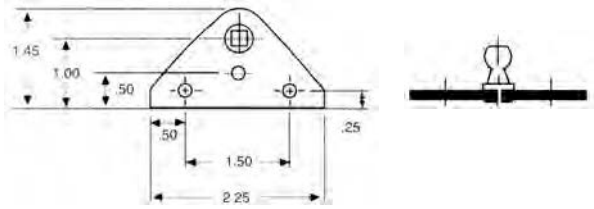
PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-72-145	12 GAUGE (.105")	.203"

COMPUTER VALIDATED DESIGN ASSISTANCE

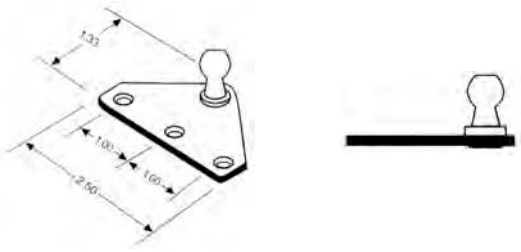
CLANCEY CAN HELP YOU SAVE TIME IN PRODUCT DEVELOPMENT AND ASSURE YOUR CUSTOMER GETS A FULL LIFE FROM THE GAS SPRING ON YOUR EQUIPMENT. GAS SPRINGS ARE OUR STRENGTH. CALL YOUR APPLICATION SPECIALIST TODAY.

NOTE: Ball studs cannot be reversed on flat brackets.

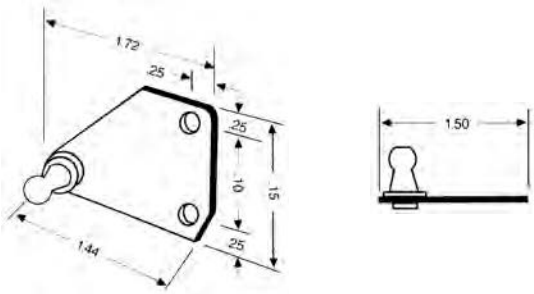
FLAT BRACKETS



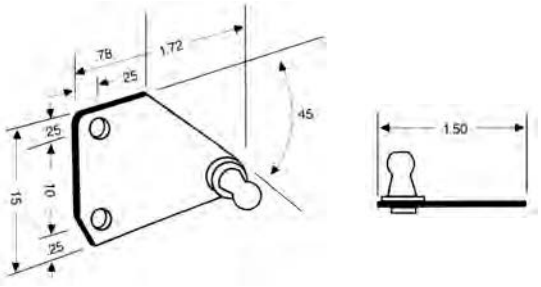
PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-72-120	14 GAUGE (.074")	.203"



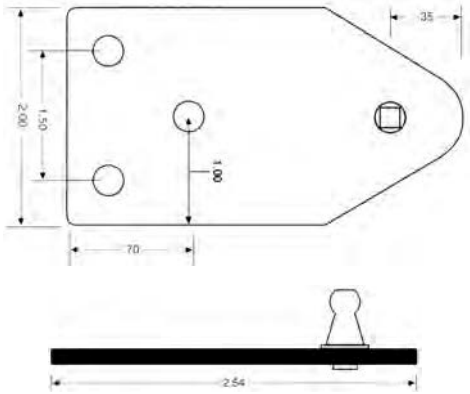
PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-72-169	14 GAUGE (.074")	.203"



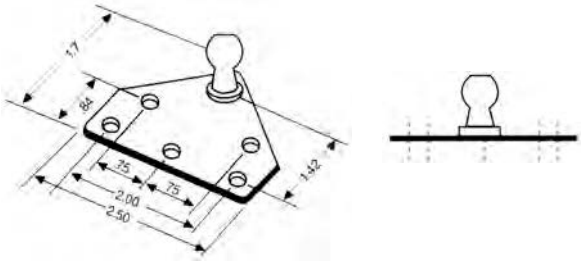
PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-52-190	14 GAUGE (.074")	.203"



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

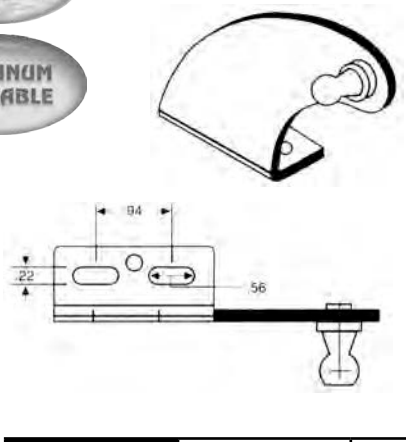
MECHANICAL ADVANTAGE BRACKETS

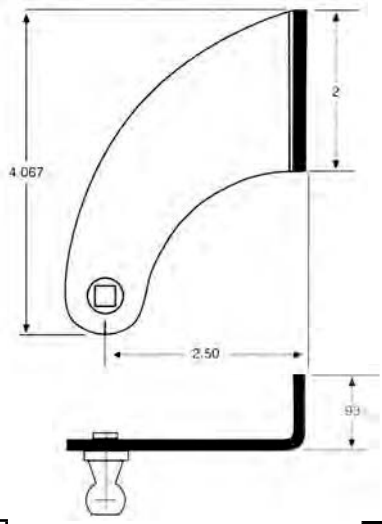
- **Help improve mechanical advantage by re-positioning the ball stud in vertical door applications.**

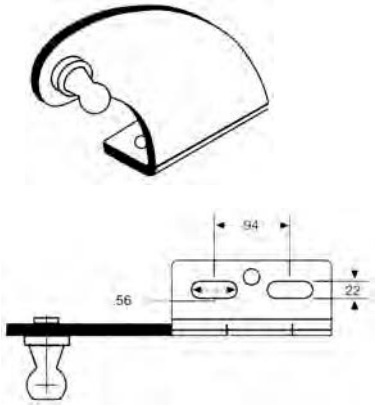
STAINLESS AVAILABLE

ALUMINUM AVAILABLE

Adjustable (Slotted)



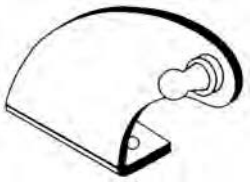


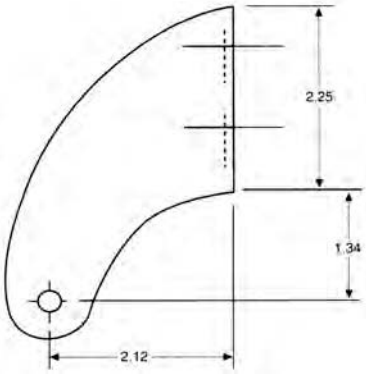


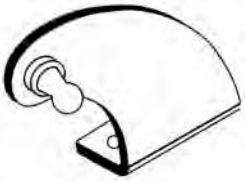
PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-52-156	10 GAUGE (.125")	.203"

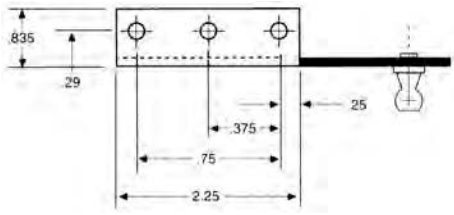
PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-52-157	10 GAUGE (.125")	.203"

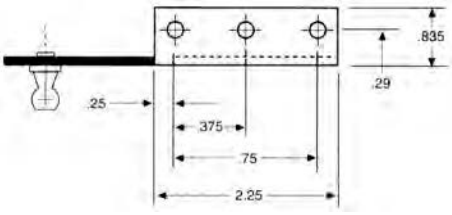
Stationary (Holes)











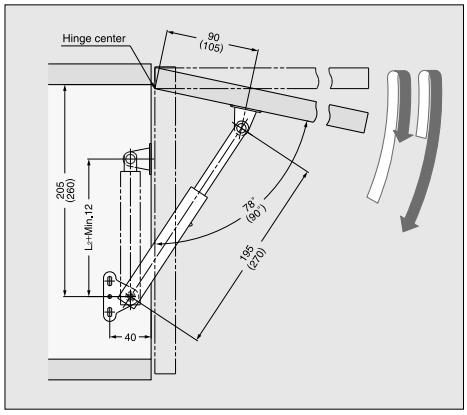
PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-52-1120	10 GAUGE (.125")	.203"

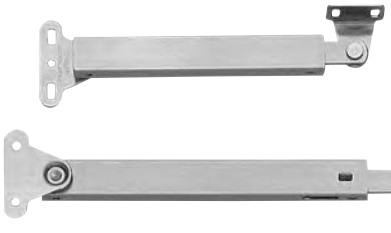
PART NUMBER	MATERIAL THICKNESS "T"	MOUNTING HOLE SIZE "H"
47-52-1125	10 GAUGE (.125")	.203"

Note: **All products are illustrated with the ball stud in the forward position.**

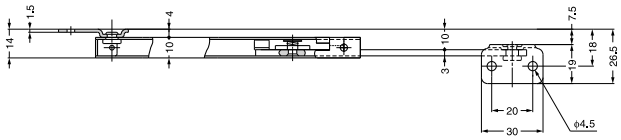
- **Non-handed.**
- **Positive stop keeps lid open.**
- **Upward "Push" releases stay to close lid.**
- **NSF recognized component.**

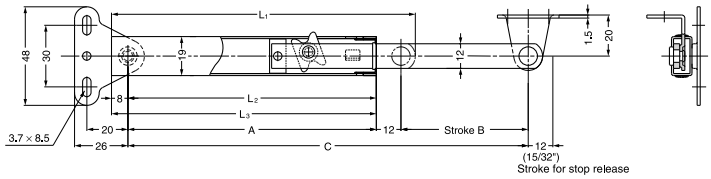
POSITIVE STOP LID STAY





STAINLESS





MATERIAL: 304 stainless steel

FINISH: Satin

NOTE: Mounting screws not included

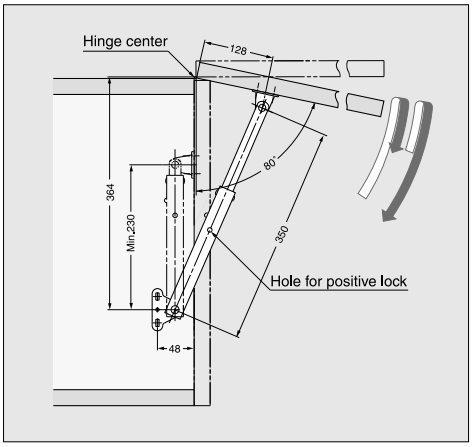
LOAD: 33 lbs each

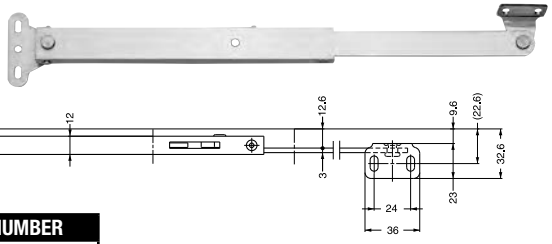
PART NUMBER	L1	L2	L3	A	B	C	Door Height Range
L-195	148mm (5.83")	121mm (4.76")	129mm (5.08")	133mm (5.24")	62mm (2.44")	195mm (7.68")	250-350mm (9.8-13.8")
L-270	185mm (7.28")	158mm (6.22")	166mm (6.54")	170mm (6.69")	100mm (3.98")	270mm (10.63")	320-500mm (12.6-19.7")

- **Non-handed.**
- **66 lb each load capacity.**
- **Hole available for locking pin (not included).**

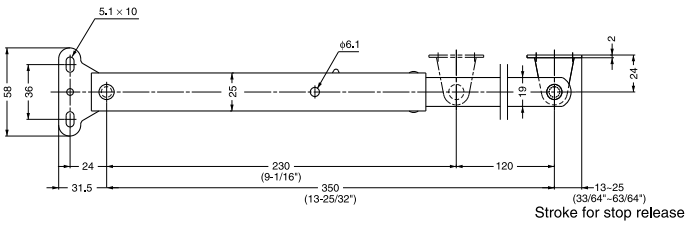
HEAVY DUTY VERSION

STAINLESS





PART NUMBER
LB-350



DRAWER SLIDES
ALUMINUM - LIGHTWEIGHT

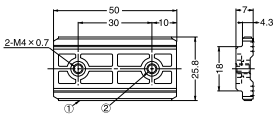
GUIDE BLOCK AND RAIL

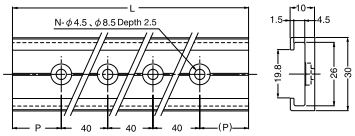
- **Drawer slide alternative.**
- **Smooth movement (0.1 dynamic friction).**
- **5 standard rail sizes.**

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

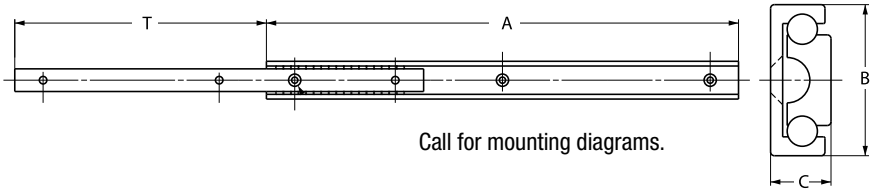
- **Non-handed.**
- **Positive stop.**
- **Two-member.**

ALUMINUM ALLOY



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")

Material: Slides – Aluminum alloy
Ball bearings – Steel
Finish: Slides - White Alumite



Call for mounting diagrams.

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

ALUMINUM, FULL EXTENSION SLIDE 30 lbs/pair @ 16" LENGTH

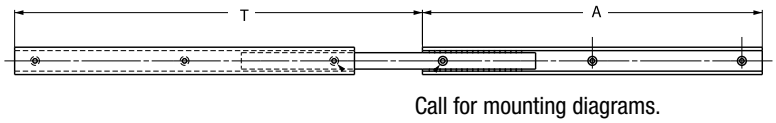
- **Non-handed.**
- **Positive stop.**
- **Three-member.**

ALUMINUM ALLOY



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")

Material: Slides – Aluminum alloy
Ball bearings – Steel
Finish: Slides - White Alumite



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

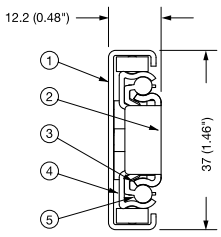
STAINLESS

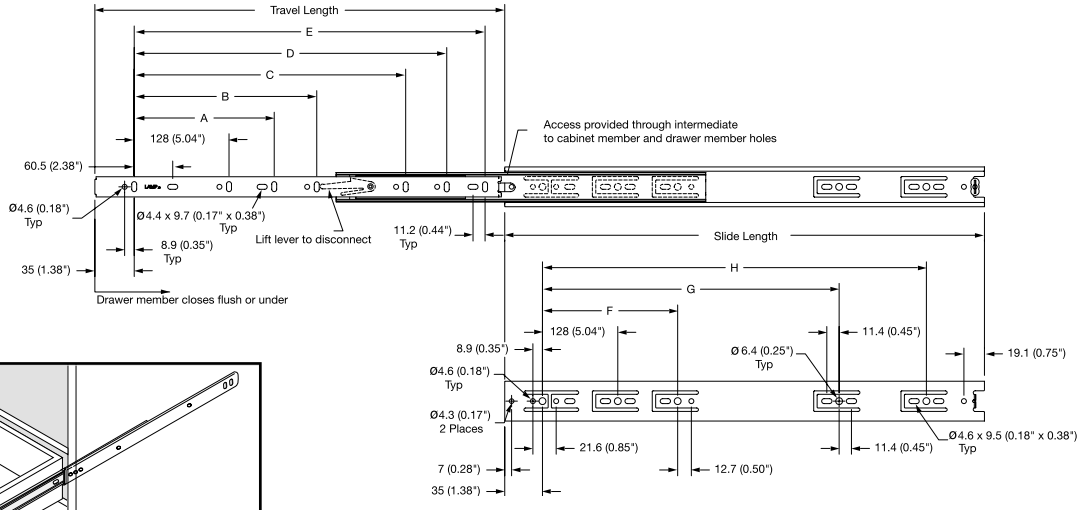


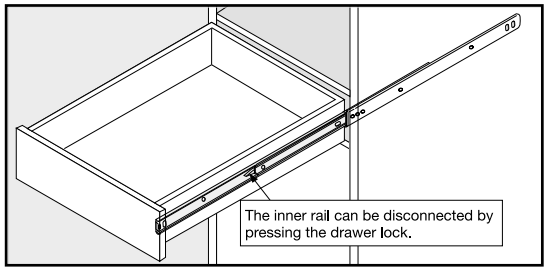
PART NUMBER	Slide Length	Travel Length	A	B	C	D	E	F	G	H
ESR-3813-8	200mm (7.87")	200mm (7.87")	-	-	-	-	142mm (5.59")	-	-	-
ESR-3813-10	250mm (9.84")	243mm (9.57")	-	-	-	-	192mm (7.56")	-	-	-
ESR-3813-12	300mm (11.81")	304mm (12.00")	-	-	-	-	242mm (9.53")	224mm (8.82")	-	-
ESR-3813-14	350mm (13.78")	355mm (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.**

STAINLESS



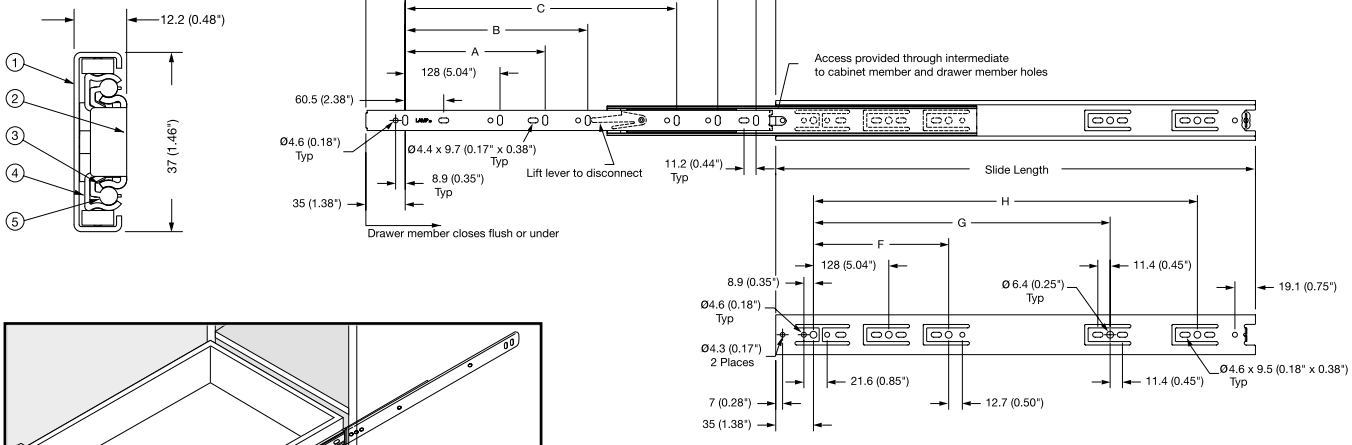
ACCURIDE® 3832 EQUIVALENT
MOUNTS IN SAME HOLE PATTERN

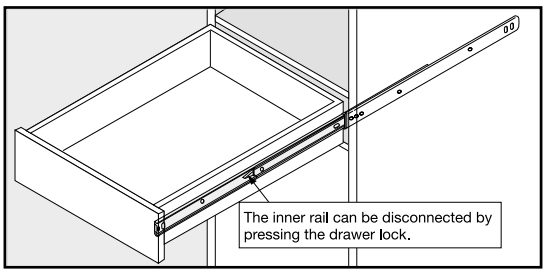
ACCURIDE® IS A REGISTERED TRADEMARK OF ACCURIDE® INTERNATIONAL, INC.

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	

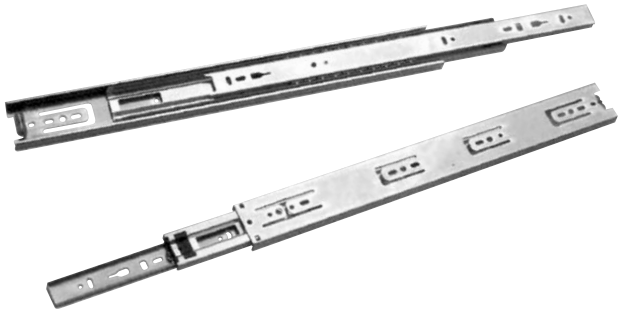




Note: **Load rating will decrease with slide length.**
Ratings are for reference only.

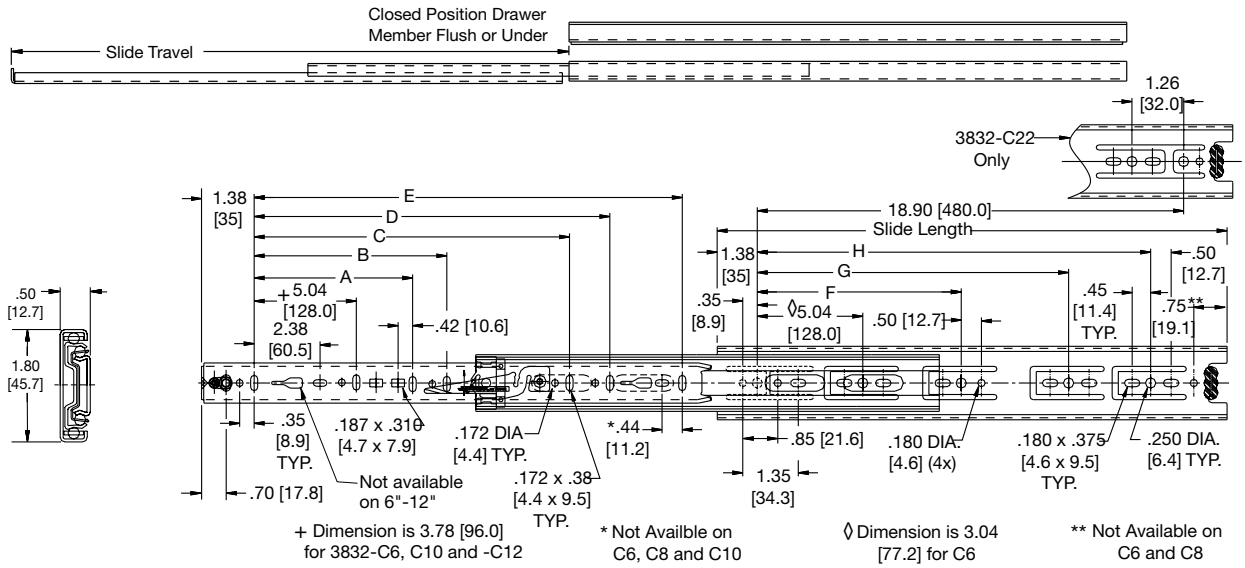
- **Front disconnect - easy assembly.**
- **Hold-in detent.**
- **Breather tabs self-adjust to side clearance.**
- **Non-handed.**
- **Industry's most popular model.**
- **Options include self closing, touch release, and easy close. Call for details.**
- **Pocket and bayonet mounting available**

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



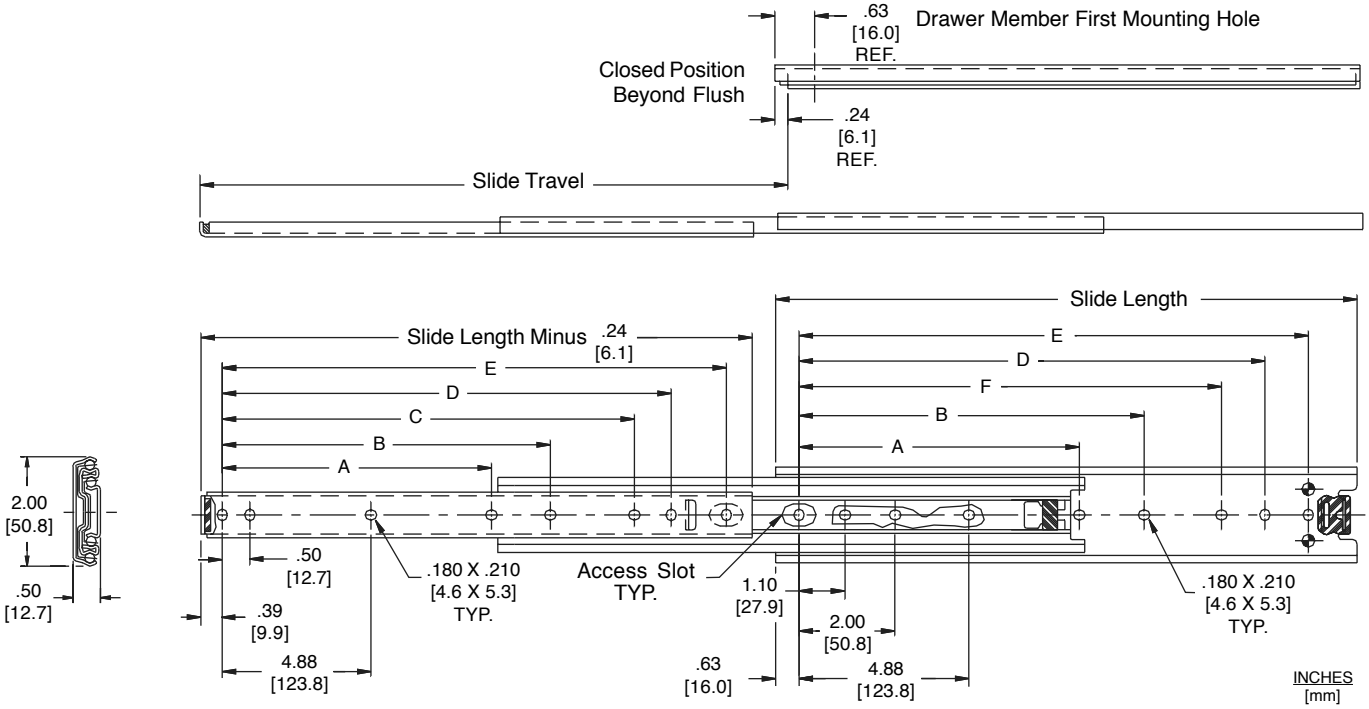
- **1" over travel.**
- **.50 side space.**
- **Non-disconnect.**
- **Lockout version available.**
- **Lock-in and lockout version available.**

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.**

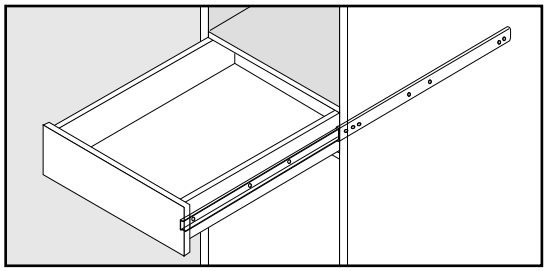


- **Retainer disconnect – easy assembly.**
- **Friction brake stop.**
- **Non-handed.**

STAINLESS 3/4 EXTENSION SLIDE
90 lbs/pair @ 18" LENGTH

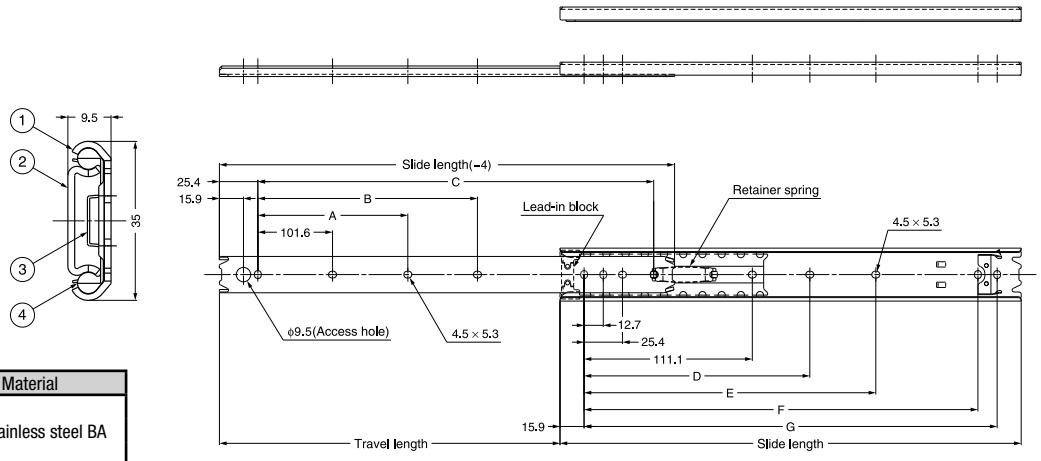


STAINLESS



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)

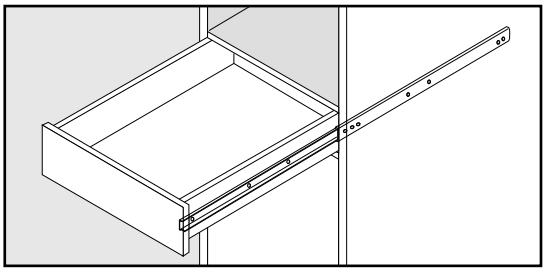
DRAWER SLIDES
STAINLESS STEEL - STANDARD WEIGHT

STAINLESS, FULL EXTENSION SLIDE
150 lbs/pair @ 18" LENGTH

- **Slight overtravel (9/16").**
- **Positive stop.**
- **Non-handed.**
- **Does not disconnect.**

STAINLESS AVAILABLE

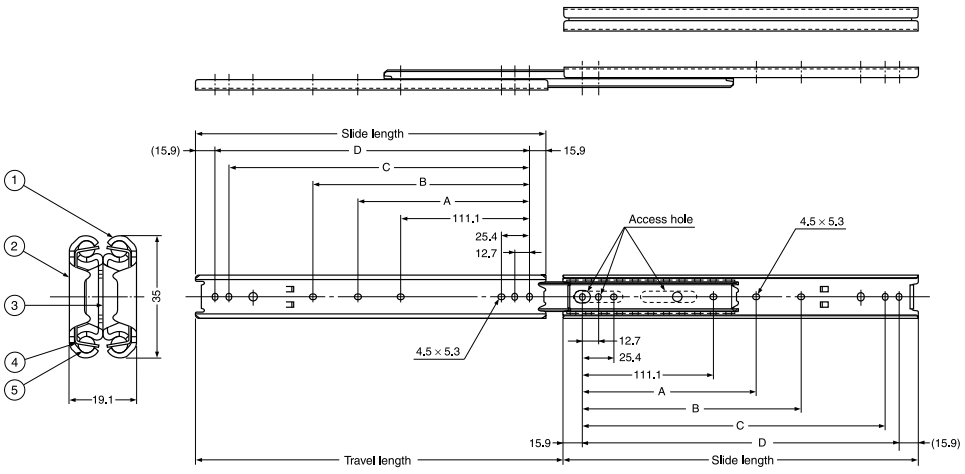




APPLICATION ENVIRONMENTS:
- **Electronic racks**
- **Tool boxes**
- **Battery trays**
- **Equipment shelfs**

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.

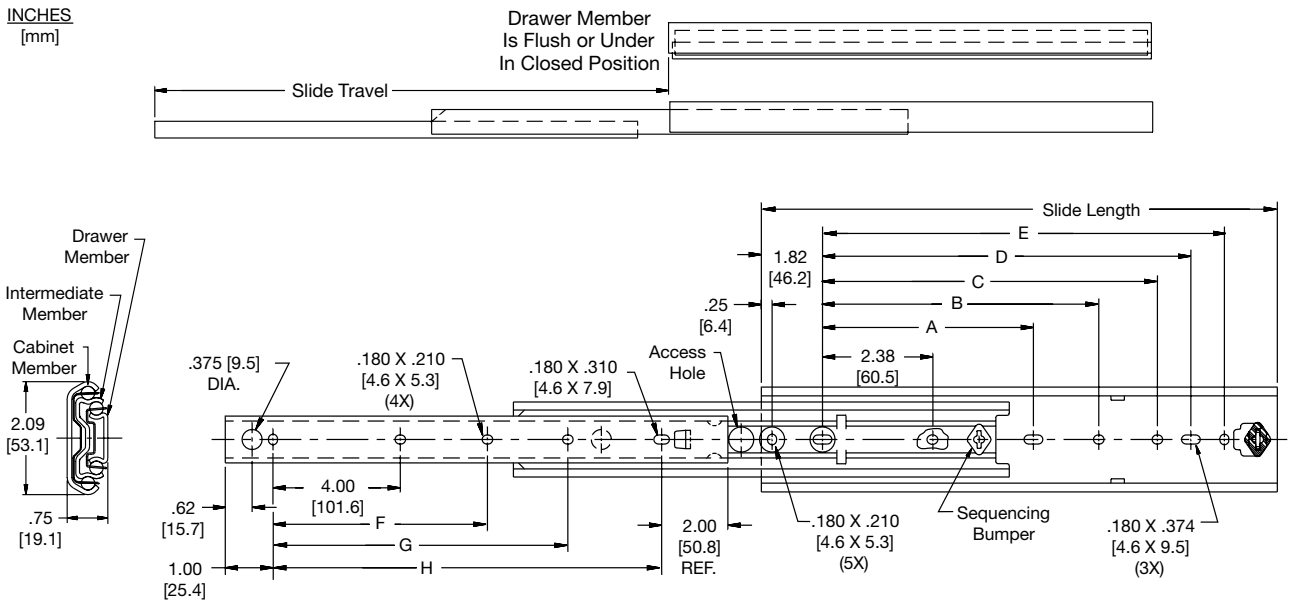
- **1" overtravel.**
- **Hold close feature prevents bounce back.**
- **Non-handed.**

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.

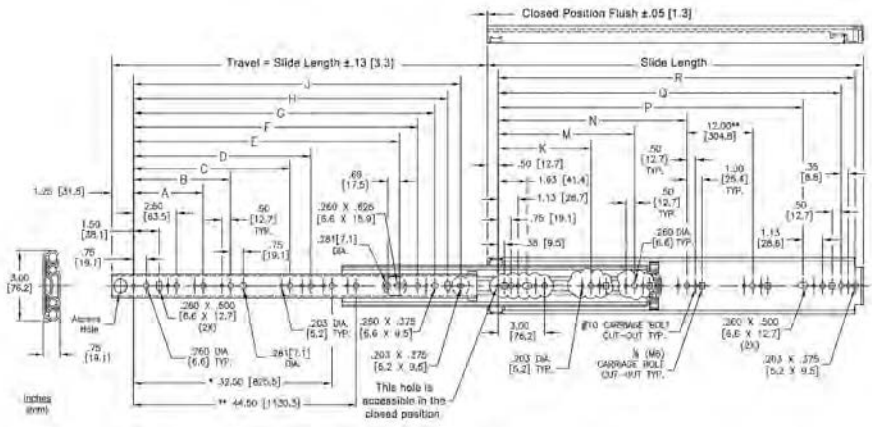
Accuride®

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.

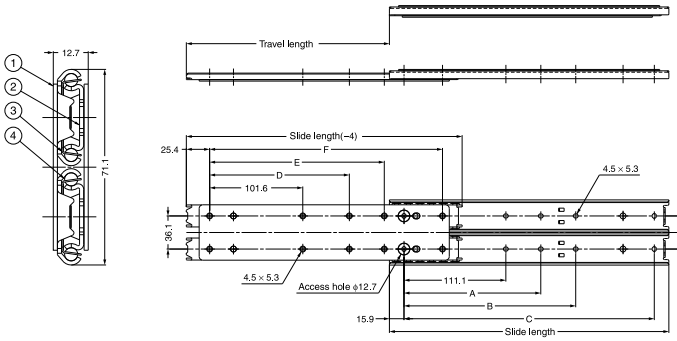


PART NUMBER	Slide Length	Slide Travel	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R
C9301-10P	10.00 (254.0)	10.00 (254.0)						4.06 (103.1)	5.06 (128.5)	5.81 (147.6)	6.56 (166.6)				6.00 (152.4)	8.25 (209.6)	9.00 (228.6)
C9301-12P	12.00 (304.8)	12.00 (304.8)						6.06 (153.9)	7.06 (179.3)	7.81 (198.4)	8.56 (217.4)				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

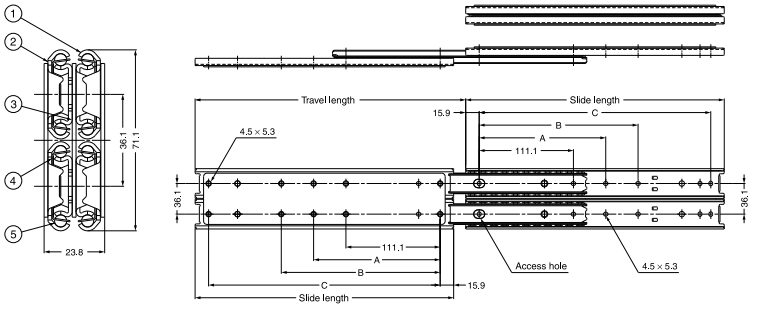




PART NUMBER	Slide Length	Travel Length	A	B	C	D	E	F
ESR-5-12	304.8mm (12.00")	221.5mm (8.72")	-	149.2mm (5.87")	273.0mm (10.75")	-	152.4mm (6.00")	254.0mm (10.00")
ESR-5-14	355.6mm (14.00")	259.6mm (10.22")	-	200.0mm (7.87")	323.8mm (12.75")	-	203.2mm (8.00")	304.8mm (12.00")
ESR-5-16	406.4mm (16.00")	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")

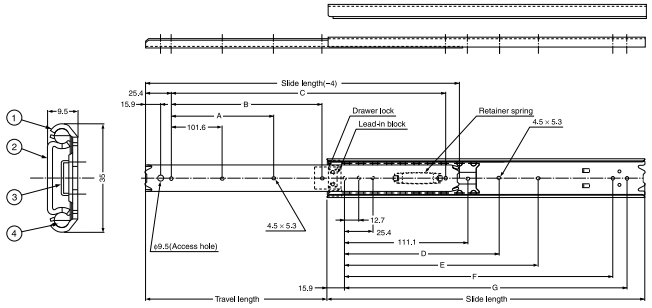
Note: **Load rating will decrease with slide length. Ratings are for reference only.**

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

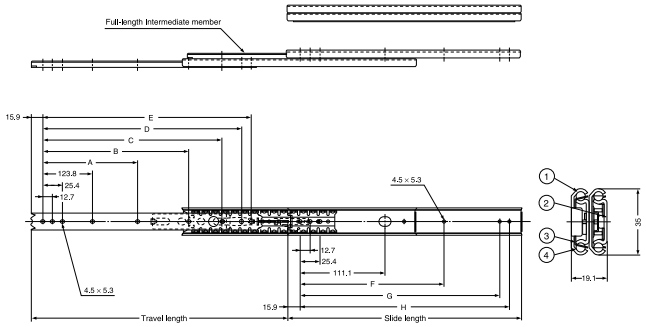
PART NUMBER	Slide Length	Travel Length	A	B	C	D	E	F	G
ESR-8-12	304.8mm (12.00")	228.6mm (9.00")	-	152.4mm (6.00")	254.0mm (10.00")	-	149.2mm (5.87")	260.3mm (10.25")	273.0mm (10.75")
ESR-8-14	355.6mm (14.00")	279.4mm (11.00")	-	203.2mm (8.00")	304.8mm (12.00")	-	200.0mm (7.87")	311.1mm (12.25")	323.8mm (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")

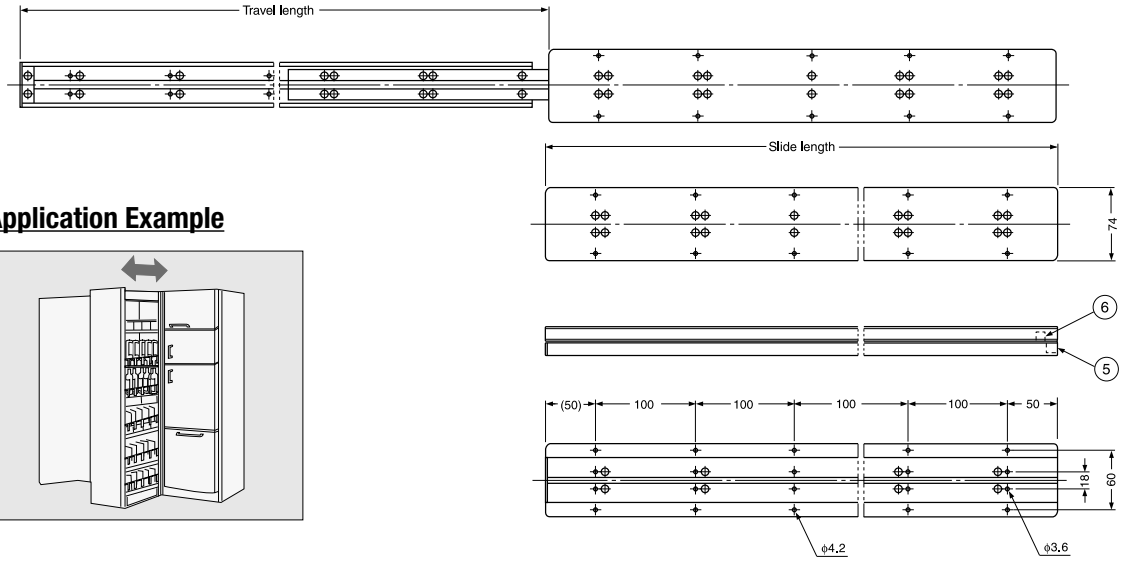
Note: **Load rating will decrease with slide length.**
Ratings are for reference only.

- **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

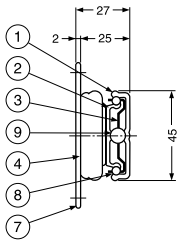
STAINLESS





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.

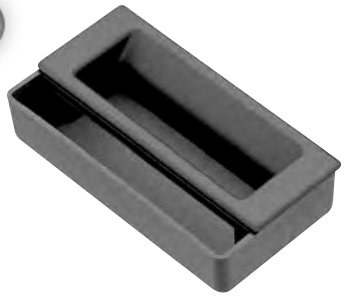


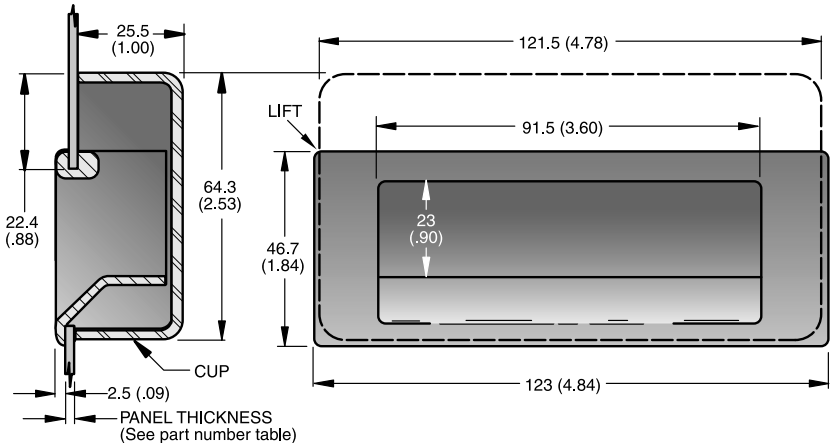
Ref. #	Part	Material
1	Outer rail	304 stainless steel BA
2	Inner rail	
3	Retainer	
4	End stopper	Polyamide
5	Outer guide	Polyacetal
6	Inner guide	
7	Plate	304 Stainless steel
8	Large balls	Steel
9	Small balls	

FLUSH PULL, 2 PIECE DESIGN

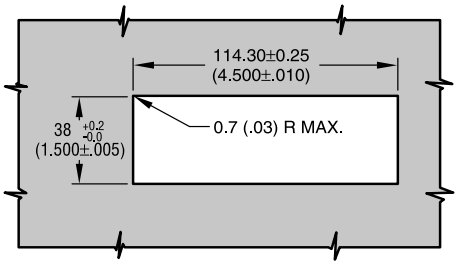
- Available with UL 94-V0 flammability rating.
- For lifting or pulling.
- Lifting load is transferred to the panel edge.
- Screw-mount installation.
- Mounting screws are included.

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)

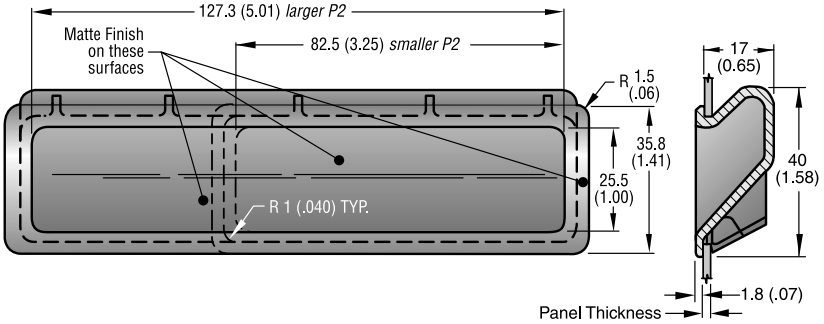
FLUSH PULL, SNAP-IN DESIGN

- 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





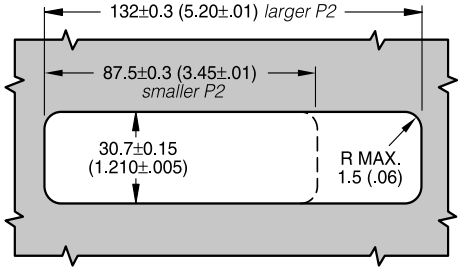
ABS, BLACK UL 94-V0

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

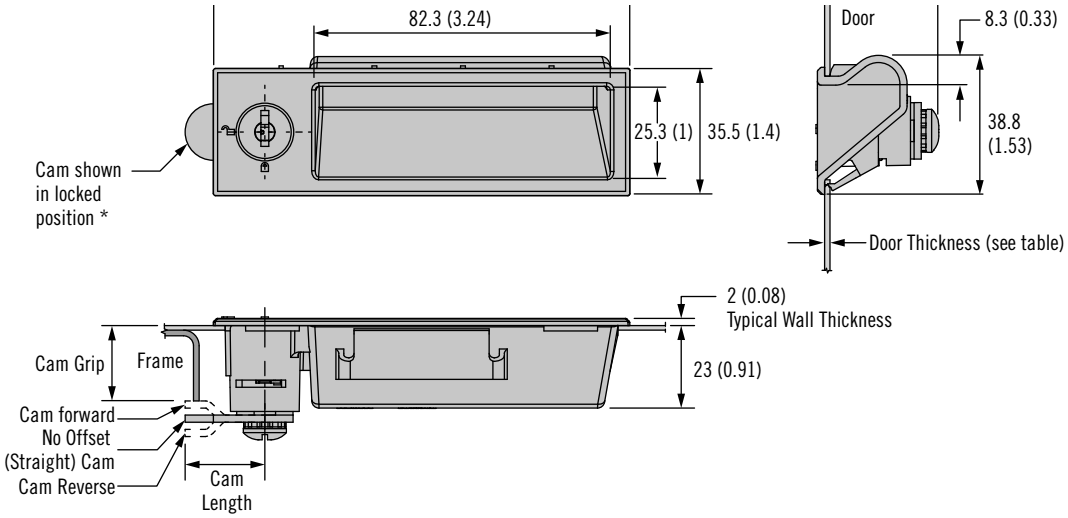


- **Snap-in installation**
- **Lockable**
- **Lock core included or sold separately**
- **Cam sold separately**
- **Low Profile, lift or pull, single hole mount**

P2 FLUSH PULL, LOCKABLE



TYPE B (COUNTER-CLOCKWISE) VERSION SHOWN

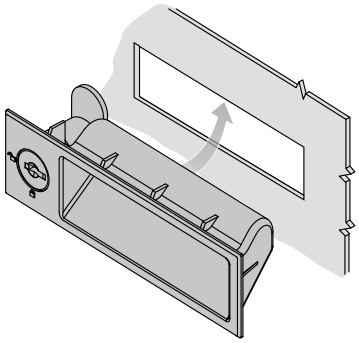


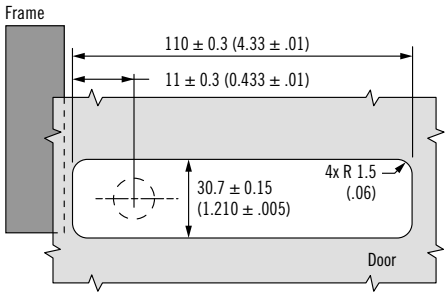
MATERIAL AND FINISH

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)

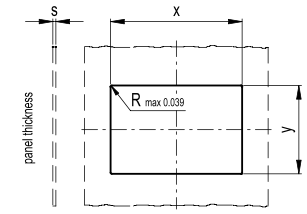
L Lock Style
- **2** With lock core, keyed alike CH751 (with two flat keys supplied)
- **9** Without lock core, contact Clancey.

ERGOSTYLE® FLUSH PULL

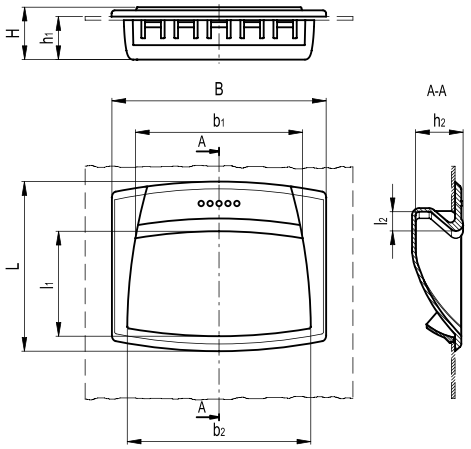
- Ergonomic design for secure grip.
- 2 standard sizes.
- Snap-in installation.

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")

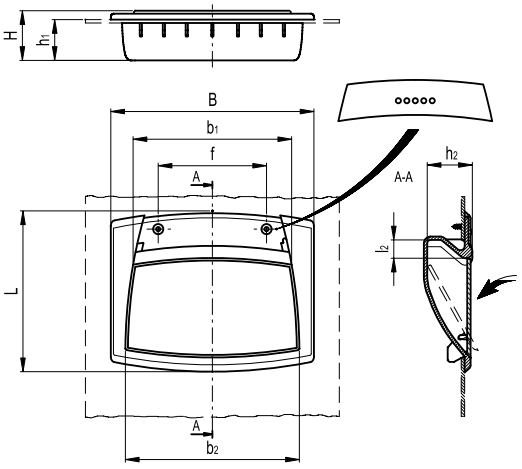
ERGOSTYLE® FLUSH PULL W/COVER

- 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.

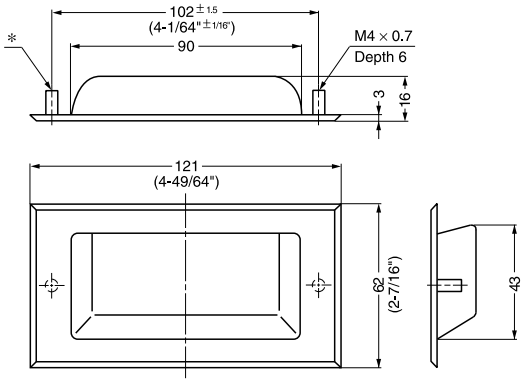
Ergostyle® is a registered trade-mark of Elesa.
Elesa Original design.

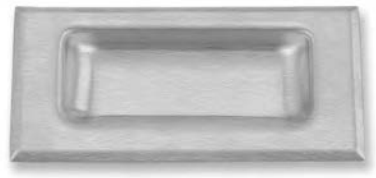
- **Great products in wash down environments.**
- **Non-corrosive stainless steel (304)**
- **No exposed mounting hardware.**

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)**

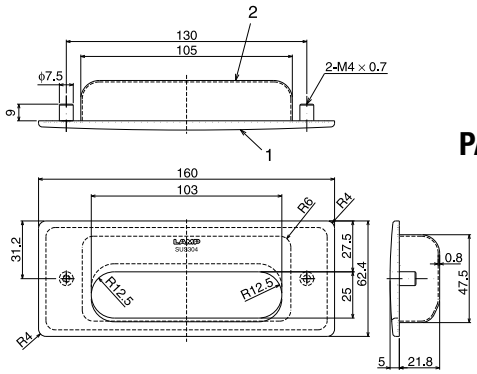
WO: **Weld-on**

RECTANGULAR BODY, OVAL ACCESS

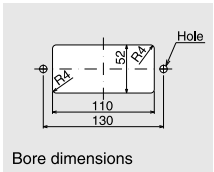
PART NUMBER
HH-KL160



- **Minimal interior protrusion.**



PANEL PREPARATION

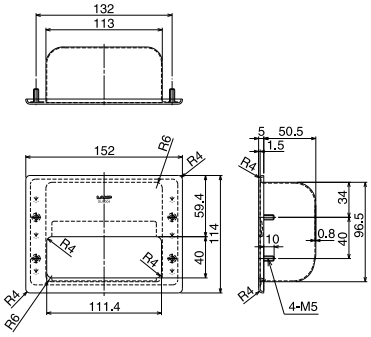


RECTANGULAR BODY, RECTANGULAR ACCESS

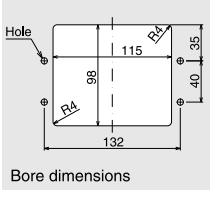
Part Number
HH-KP-150



- **Deep recess & extra set of mounting studs for added strength.**



PANEL PREPARATION

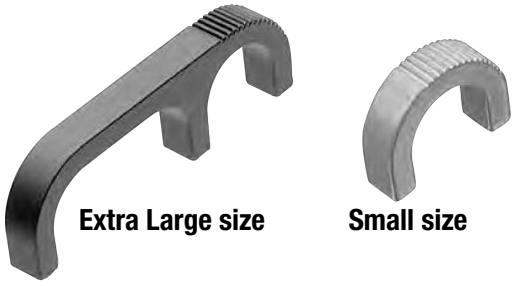


CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

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**

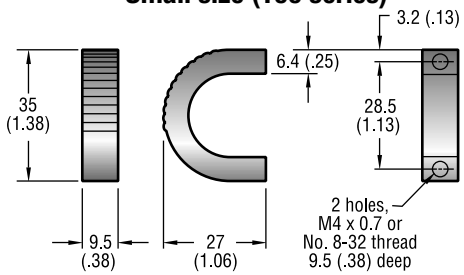
Large size

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**

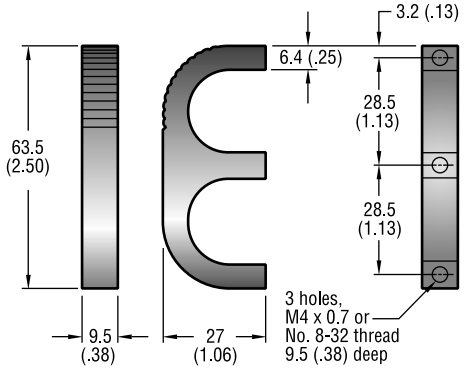
Extra Large size

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**

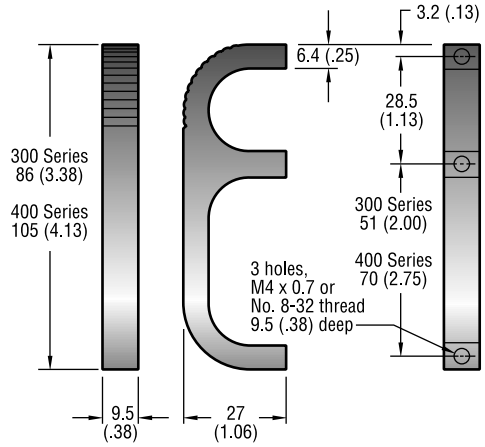
Small size (100 series)



Medium Size (200 series)



Large size (300 series) and Extra Large size (400 series)



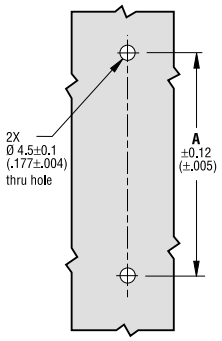
- **Two standard finish options.**
- **Four standard sizes.**

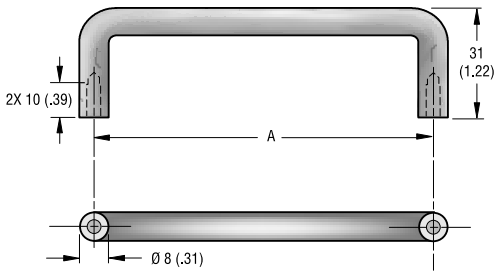
ALUMINUM WIRE PULLS 8 mm DIAMETER

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

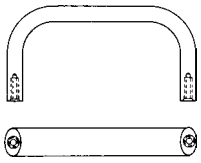
INTERNAL

EXTERNAL

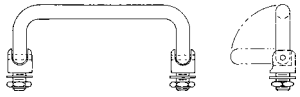
Clancey can provide almost any size or style of wire pull handle



Round-Internal



Oval-Internal



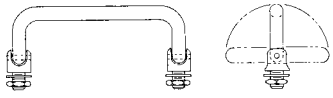
90° free fall



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

CAD POWERED

southco® AUTHORIZED DISTRIBUTOR

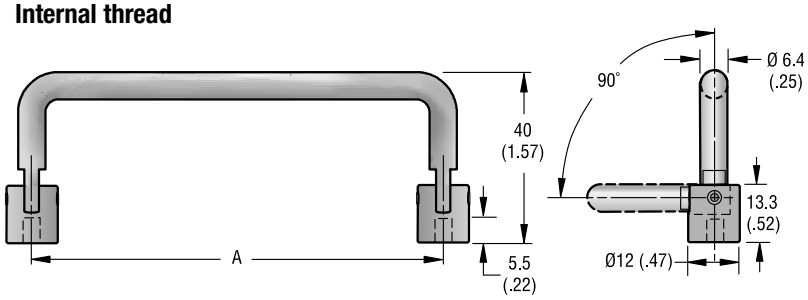
90° FOLDING PULLS

- 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



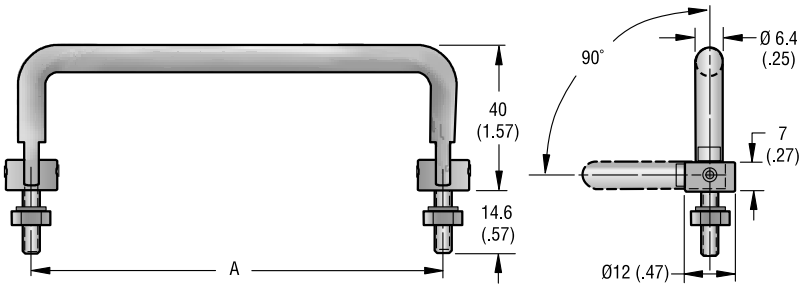
PART NUMBERS METRIC THREAD		Length “A”	Mounting Hardware Thread Size
Black Anodized	Clear Anodized		
P9-040-40-M4N-15	P9-040-40-M4N-11	40 (1.57")	M4
P9-064-40-M4N-15	P9-064-40-M4N-11	64 (2.52")	
P9-096-40-M4N-15	P9-096-40-M4N-11	96 (3.78")	
P9-128-40-M4N-15	P9-128-40-M4N-11	128 (5.04")	

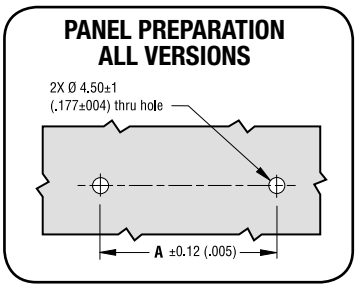
PART NUMBERS INCH THREAD		Length “A”	Mounting Hardware Thread Size
Black Anodized	Clear Anodized		
P9-040-40-08N-15	P9-040-40-08N-11	40 (1.57")	8-32
P9-064-40-08N-15	P9-064-40-08N-11	64 (2.52")	
P9-096-40-08N-15	P9-096-40-08N-11	96 (3.78")	
P9-128-40-08N-15	P9-128-40-08N-11	128 (5.04")	

Material: Handle, base - aluminum
Pin - 300 series stainless steel

Note: Mounting screws are not included within internal thread

External thread





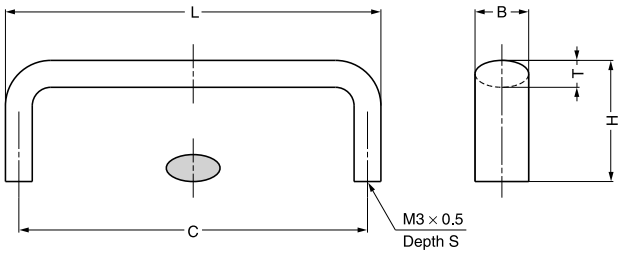
PART NUMBERS METRIC THREAD		Length “A”	Mounting Hardware Thread Size
Black Anodized	Clear Anodized		
P9-040-40-M4X-15	P9-040-40-M4X-11	40 (1.57")	M4
P9-064-40-M4X-15	P9-064-40-M4X-11	64 (2.52")	
P9-096-40-M4X-15	P9-096-40-M4X-11	96 (3.78")	
P9-128-40-M4X-15	P9-128-40-M4X-11	128 (5.04")	

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.

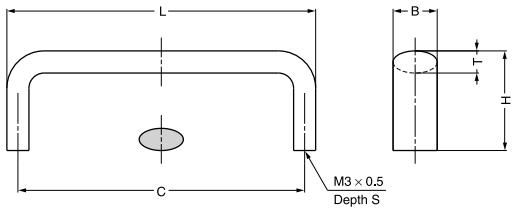
- **High grade 316 Stainless steel (select models).**
- **Mirror and Satin finishes available.**
- **Supplied with mounting hardware.**

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.

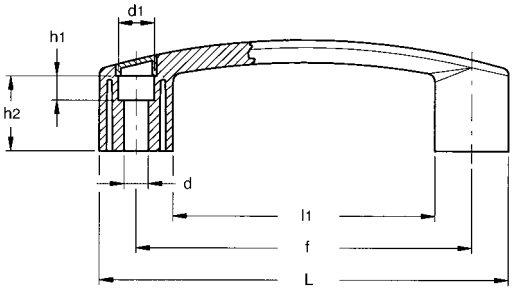
Note: Profile change from line drawing

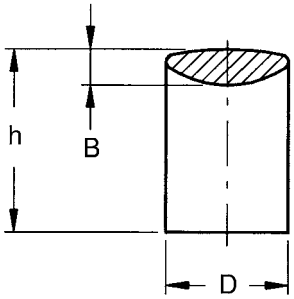
- **Sleek ergonomic design.**
- **Resistant to solvents, oils, grease and other chemical agents.**
- **Removable accent caps cover mounting hardware. Available in 6 colors.**

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.

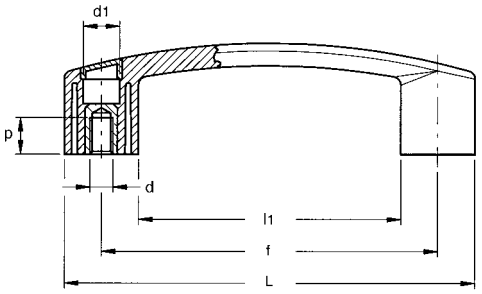
C1 = Black **C4 = Yellow**
C2 = Orange **C5 = Light Blue**
C3 = Gray **C6 = Red**

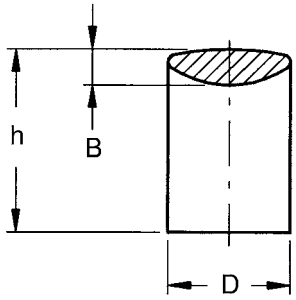
- **Brass inserts for rear mounting.**
- **Accent caps available in 6 colors.**

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



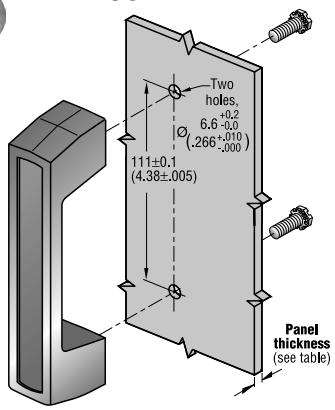
PART NUMBERS		MAX. material thickness (rear mount only)
Rear Mount	Front Mount	
B8-45-3	B8-43-3	16.0 (.63")

Material: ABS, plastic black

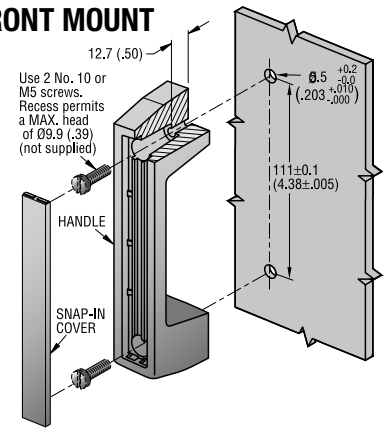
Note: Front mount - No hardware supplied
Rear mount - Hardware is supplied

INSTALLATION

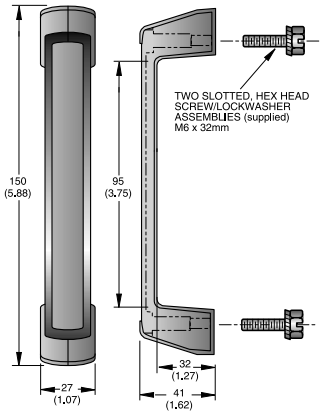
REAR MOUNT



FRONT MOUNT



REAR MOUNT (illustrated)



LARGE SIZE

- Ergonomic look and feel.

NON-CORROSIVE

INCH CENTERS

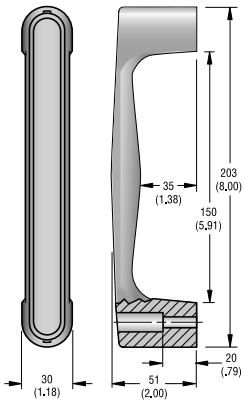
DUAL HARDWARE



PART NUMBERS		(Rear Mount Only)
Front Mount	Rear Mount	
B8-63-3	B8-66-3	19 (.75)

Material: ABS, plastic black

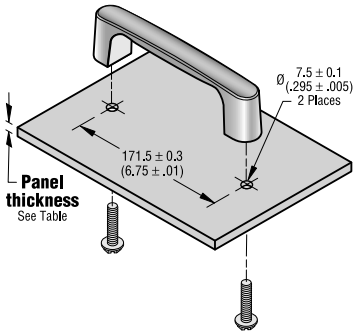
Note: Front mount - No hardware supplied
Rear mount - Hardware is supplied



INSTALLATION

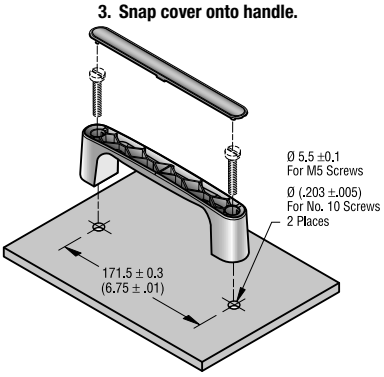
REAR MOUNT

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

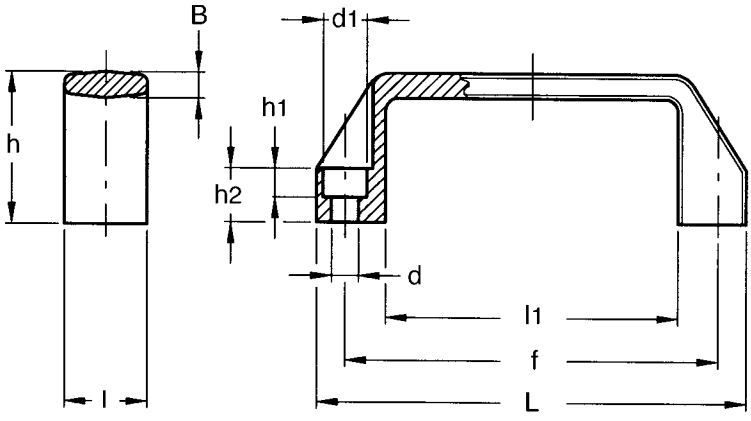
PART NUMBER				DIMENSIONS								MOUNTING		Product Features
Black	Orange	Red	Gray	L	h	B	l	l1	d1	h1	h2	f	d	
37031	----	----	----	107 (4.21")	36 (1.42")	6 (.24")	21 (.83")	74 (2.91")	10.5 (.41")	7 (.28")	13 (.51")	93.5 (3.68")	6.5 (.25")	----
37001	37002	----	37004											high impact
150001	----	----	----											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)

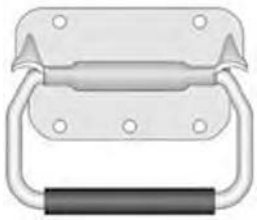
EXPOSED CHEST HANDLES

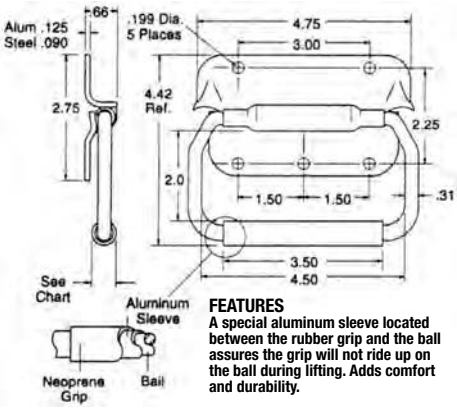
- 90° stop feature.
- Spring return of handle.
- Neoprene rubber grips.

ROBUST SERIES

STAINLESS AVAILABLE

- Rugged design.
- Configurations to meet Mil-Specs (Please call).





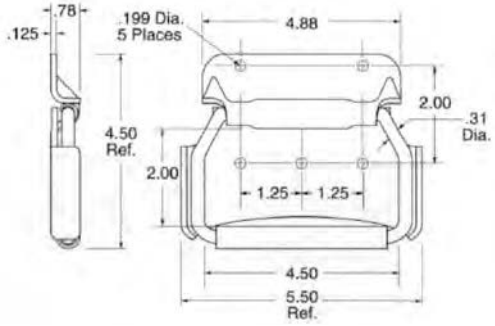
FEATURES
A special aluminum sleeve located between the rubber grip and the ball assures the grip will not ride up on the ball during lifting. Adds comfort and durability.

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).





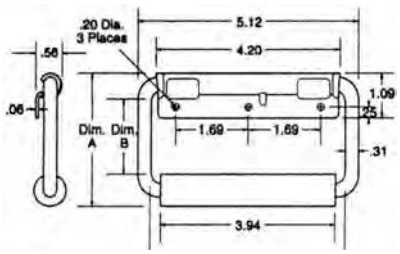
PART NUMBER	Mounting Plate		Bail Handle		Grip Dia.	Mounting Holes
	Material	Finish	Material	Finish		
HA945-GLS2-RG75ZE	Aluminum 3003 H14	none	Steel	zinc plate	.75"	yes

STANDARD SERIES

STAINLESS AVAILABLE

- Smaller mounting plate to reduce handle "foot print".
- Economical choice.





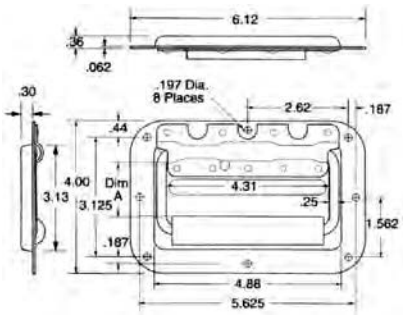
PART NUMBER	Material	Finish	Grip Dia.	Dim. "A"	Dim. "B"
500-32-M15-ZB	Steel	Zinc Plate	.53"	2.97"	1.81"
500-56-M15-ZB			.75"	3.09"	1.70"
500-32-M20-QQ	Steel	Black Epoxy	.53"	2.97"	1.81"
500-56-M20-QQ			.75"	3.09"	1.70"
500-32-M21-SP	Stainless Steel	Passivated	.53"	2.97"	1.81"
500-56-M21-SP			.75"	3.09 "	1.70"

Special finishes and configurations are available, please call.

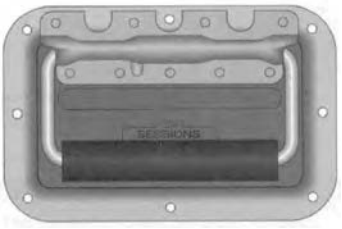
800-747-7405

- 90° stop spring return.
- Standard of the case industry.
- Variety of sizes and finishes.
- Comfortable neoprene rubber grips.

RECESSED CHEST HANDLES



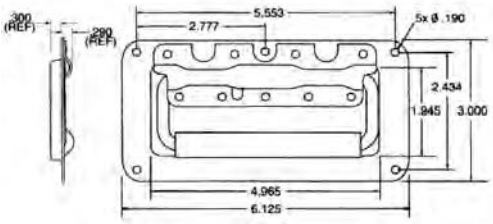
MOUNTING OPENING
3.10" x 5.20" rectangle.



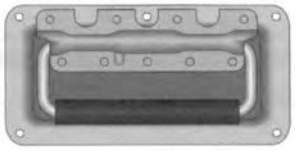
STANDARD SERIES

- 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"



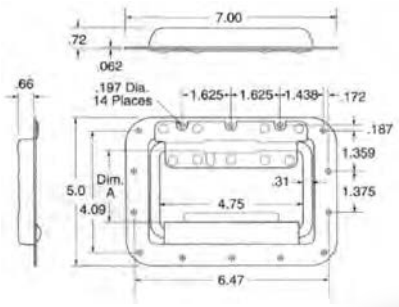
MOUNTING OPENING
2.20" x 5.00" rectangle.



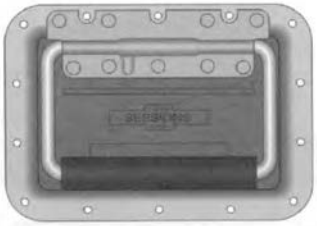
LOW – PROFILE

- 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.

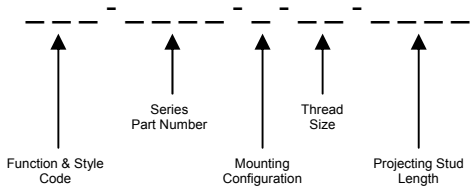
For ***Inch*** thread sizes: (in inches, three decimals)

- _ _ _ _ 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 - _ _ _ _ - _ - _ _ - _ _ _ _

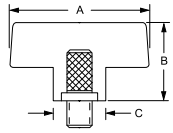
See complete instructions on page 242

Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

Standard Bar Knob

Material: Thermoplastic
Finish: Textured, black





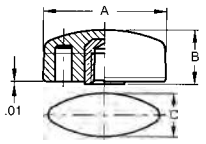
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	M5 (M5)	M6 (M6)	M8 (M8)	M10 (M10)
3091	1.50"	.75"	.75"	X	X	X	X					
3089	2.00"	1.13"	.75"		X	X	X		X	X	X	X
3088	2.50"	1.13"	.75"		X	X	X			X	X	X
3094	3.50"	1.13"	.94"		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





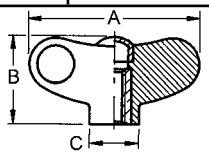
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	M5 (M5)	M6 (M6)	M8 (M8)	M10 (M10)
E302	1.02"	.51"	.43"	X			X			
E351	1.26"	.59"	.51"		X			X	X	
E452	1.57"	.67"	.61"			X			X	X

- 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





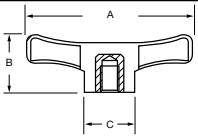
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	M6 (M6)	M8 (M8)	M10 (M10)
E211	1.85"	.94"	.53"	X			X		
E236	2.17"	1.10"	.63"	X	X		X	X	
E241	2.76"	1.42"	.79"			X			X

- 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 - _ _ _ _ - _ - _ _ - _ _ _ _**

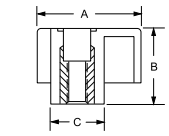
See complete instructions on page 242

Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

Three Arm Heat Resistant

Material: Phenolic
Finish: Gloss Black





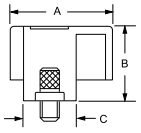
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 8-32 (08)	10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)
3022	.88"	.75"	.50"	X	X	X			
3025	1.13"	.75"	.50"	X	X	X			
3035	1.50"	.88"	.63"		X	X	X	X	
3040	2.00"	1.00"	.75"			X	X	X	X

- 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





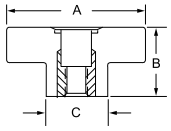
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	M5 (M5)	M6 (M6)	M8 (M8)	M10 (M10)
3036	1.50"	.88"	.63"	X	X	X					
3041	2.00"	1.00"	.75"	X	X	X	X	X	X	X	X
3045	2.50"	1.25"	.81"	X	X	X	X	X	X	X	X

- 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





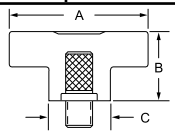
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 8-32 (08)	10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)
2800	1.00"	.75"	.44"	X	X	X			
2820	1.50"	1.00"	.63"		X	X	X	X	
2830	2.00"	1.00"	.88"			X	X	X	X
2840	3.00"	1.13"	.88"			X	X	X	X

- 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





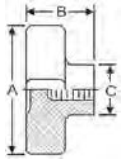
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	M5 (M5)	M6 (M6)	M8 (M8)	M10 (M10)
2810	1.25"	.88"	.50"	X	X	X						
2825	1.75"	1.00"	.75"	X	X	X	X		X	X	X	X
2837	2.25"	1.00"	1.00"		X	X	X	X				
2500	2.50"	1.13"	1.00"		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 - _ _ _ _ - _ - _ _ - _ _ _ _

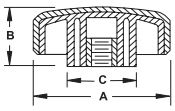
See complete instructions on page 242

Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

Soft Surface Four Lobe

Material: Elastomer overmold
Finish: Matte Black





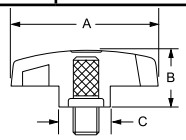
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	M5 (M5)	M6 (M6)	M8 (M8)	M10 (M0)
70J1	1.40”	.68”	.56”	X	X				X	X		
70J2	1.75”	.75”	.68”	X	X	X	X		X	X	X	X
70J3	1.99”	.86”	.91”	X	X	X	X	X	X	X	X	X
7001	2.50”	1.09”	1.25”		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





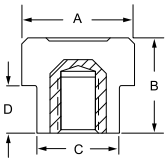
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	M5 (M5)	M6 (M6)	M8 (M8)	M10 (M0)
4052	1.33”	1.15”	.85”	X	X	X	X	X	X	X	X	X
4053	1.75”	1.25”	.88”	X	X	X	X	X	X	X	X	X
2980	2.25”	.72”	.84”		X	X	X	X	X	X	X	X
2990	3.50”	1.13”	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

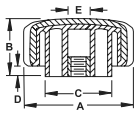
- Threaded insert (pictured and illustrated)
- Excellent in high temperatures
- Configured with threaded inserts (I) or projecting stud (P)
- No undercuts - clean

CLEAN from CLANCEY

Soft Surface Five Lobe

Material: Elastomer overmold
Finish: Matte Black





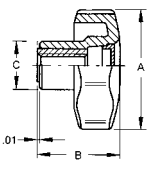
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	M5 (M5)	M6 (M6)	M8 (M8)	M10 (M0)
7040	1.52”	1.09”	.69”	X	X	X	X		X	X	X	X
7050	1.91”	1.09”	.93”	X	X	X	X	X	X	X	X	X
7060	2.26”	1.09”	1.25”		X	X	X	X	X	X	X	X

- 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.

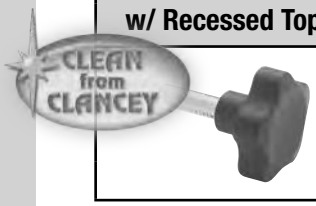
KNOBS
CLAMPING - LOBE STYLE

Part Number = **KCL - _ _ _ _ - _ - _ _ - _ _ _ _**

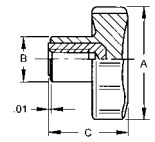
See complete instructions on page 242

Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

Five Lobe w/ Recessed Top



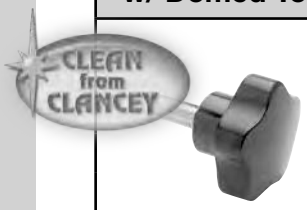
Material: Thermoplastic
Finish: Matte Black



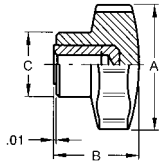
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	M5 (M5)	M6 (M6)	M8 (M8)	M10 (M0)
E422	1.26"	.89"	.55"	X	X				X	X		
E432	1.57"	1.02"	.59"		X	X				X	X	
E442	1.97"	1.22"	.70"			X	X				X	X
E452	2.36"	1.45"	.83"					X				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



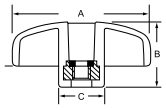
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	5/8-11 (63)	M6 (M6)	M8 (M8)	M10 (M0)	M12 (M2)
E032	1.26"	.91"	.75"	X					X			
E062	1.57"	1.06"	.83"	X	X				X	X		
E092	1.97"	1.30"	.98"		X	X				X	X	
E122	2.36"	1.45"	1.06"			X	X				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



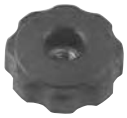
Material: Thermoplastic
Finish: Matte Black



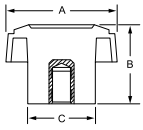
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 8-32 (08)	10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)
4322	1.25"	.81"	.50"	X	X	X	X		
4312	1.75"	1.00"	.69"	X	X	X	X	X	
4302	2.50"	1.16"	.81"	X	X	X	X	X	X

- 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



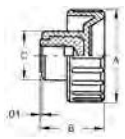
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)
4200	1.38"	.88"	.69"	X	X	X	X	
4210	1.75"	1.28"	1.06"	X	X	X	X	
4230	2.38"	1.34"	1.25"		X	X	X	X
4340	3.25"	1.91"	2.00"		X	X	X	X

- 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 - _ _ _ _ - _ - _ _ - _ _ _ _

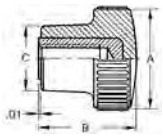
See complete instructions on page 234

Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

Knurled Grip

Material: Phenolic
Finish: Gloss Black





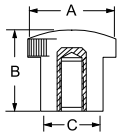
Series Part Number	Primary Dimensions A	B	C	Thread Sizes (code #) M5 (M5)	M6 (M6)	M8 (M8)	M10 (M0)
E001	.83"	.98"	.51"	X	X		
E111	1.02"	1.10"	.63"		X	X	
E201	1.22"	1.26"	.75"		X	X	X

- 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





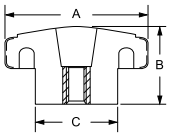
Series Part Number	Primary Dimensions A	B	C	Thread Sizes (code #) 8-32 (08)	10-32 (10)
2720	.63"	.56"	.44"	X	X
2710	.75"	.50"	.50"	X	X
2730	.82"	.53"	.44"		X

- 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





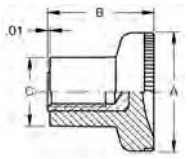
Series Part Number	Primary Dimensions A	B	C	Thread Sizes (code #) 1/4-20 (25)	5/16-18 (31)	3/8-16 (37)
2750	1.00"	.81"	.63"	X	X	X
2770	1.38"	.81"	.75"	X	X	X
2790	1.88"	1.00"	1.00"	X	X	X

- 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





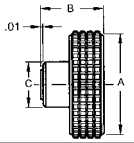
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 8-32 (08)	10-32 (10)	1/4-20 (25)	5/16-18 (31)	M4 (M4)	M5 (M5)	M6 (M6)	M8 (M8)
E081	.63"	.51"	.33"	X				X			
E091	.71"	.61"	.41"	X				X			
E121	.83"	.71"	.49"		X				X		
E212	.98"	.89"	.57"			X				X	
E311	1.22"	1.06"	.73"				X				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

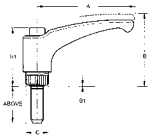
- Projecting stud (pictured), threaded insert (illustrated)
- Center cap available in colors: black (standard), orange, gray, yellow, light blue, red
- Configured with threaded inserts (I), or projecting stud (P)
- ® Elesa - Elesa original design

Ergostyle® w/ stainless fittings

Handle: Glass Reinforced Technopolymer, matte black

STAINLESS





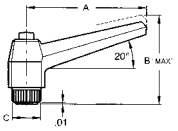
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	M5 (M5)	M6 (M6)	M8 (M8)	M10 (M0)
ES44	1.73"	1.42"	.47"	X	X				X	X		
ES63	2.48"	1.85"	.59"		X	X				X	X	
ES78	3.07"	2.28"	.75"				X	X				X
ES95	3.74"	2.72"	.85"				X	X				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

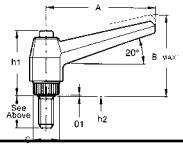
- Projecting stud (pictured), threaded insert (illustrated)
- Configured with threaded inserts (I), or projecting stud (P)
- Elesa original design

Push Button w/ stainless fittings

Handle: Glass Reinforced Technopolymer, matte black

STAINLESS





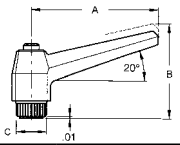
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	M6 (M6)	M8 (M8)	M10 (M0)	M12 (M2)
ES42	1.65"	1.40"	.47"		X				X			
ES63	2.48"	1.83"	.59"			X				X		
ES80	3.15"	2.30"	.75"				X				X	X
ES10	3.94"	2.74"	.98"				X	X			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 - _ _ _ _ - _ - _ _ - _ _ _ _

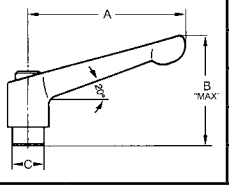
See complete instructions on page 242

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





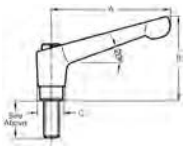
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	M5 (M5)	M6 (M6)	M8 (M8)	M10 (M0)	M12 (M2)
DC45	1.77"	1.52"	.39"	X	X				X	X			
DC63	2.48"	1.93"	.53"		X	X				X	X		
DC78	3.07"	2.33"	.63"			X	X				X	X	
DC92	3.62"	2.72"	.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





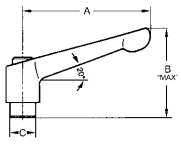
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	M5 (M5)	M6 (M6)	M8 (M8)	M10 (M0)	M12 (M2)
DS45	1.77"	1.52"	.39"	X	X				X	X			
DS63	2.48"	1.93"	.53"		X	X				X	X		
DS78	3.07"	2.33"	.63"			X	X				X	X	
DS92	3.62"	2.72"	.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





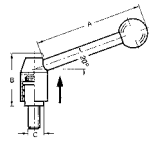
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	M5 (M5)	M6 (M6)	M8 (M8)	M10 (M0)
SS45	1.77"	1.52"	.39"	X	X				X	X		
SS63	2.48"	1.93"	.53"			X	X			X	X	
SS78	3.07"	2.33"	.63"				X	X				X

- 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





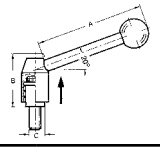
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	5/8-11 (63)	M6 (M6)	M8 (M8)	M10 (M0)	M12 (M2)
HD70	2.76"	1.48"	.53"	X	X				X	X		
HD96	3.78"	1.75"	.63"		X	X				X	X	
HD10	4.33"	2.09"	.75"			X	X				X	X
HD24	4.88"	2.39"	.91"				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 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)	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

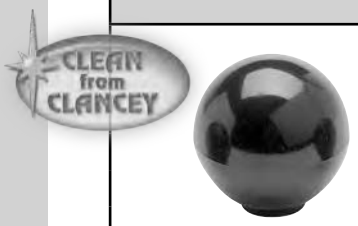
Part Number = **KSB - _ _ _ _ - _ - _ _ - _ _ _ _**

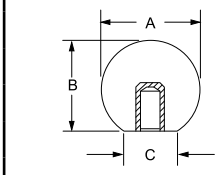
See complete instructions on page 234

Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

Standard Ball

Material: Phenolic
Finish: Gloss Black





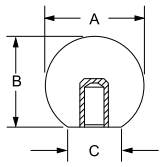
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 8-32 (08)	10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)
4901	.69"	.59"	.38"	X	X	X			
0030	1.00"	.94"	.50"		X	X	X	X	
0025	1.25"	1.25"	.53"			X	X		
0033	1.38"	1.31"	.53"			X	X	X	
0035	1.50"	1.50"	.63"			X	X	X	
0055	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





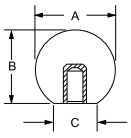
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	M6 (M6)	M8 (M8)	M10 (M0)	M12 (M2)
0130	.78"	.73"	.38"	X	X							
0135	1.00"	.91"	.58"		X	X	X		X	X	X	
0140	1.25"	1.19"	.58"			X	X	X				
0145	1.41"	1.34"	.63"			X	X	X		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



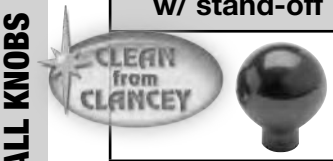


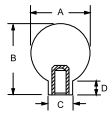
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)
0014	1.25"	1.19"	.63"	X	X	X	X	X
0016	1.38"	1.25"	.75"		X	X	X	X
0018	1.50"	1.44"	.63"		X	X	X	X
0019	1.88"	1.75"	.75"			X	X	X

- 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





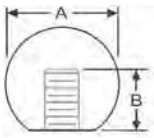
Series Part Number	Primary Dimensions A	B	C	D	Available Thread Sizes (code #) 8-32 (08)	10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)
490S	.69"	.84"	.38"	.25"	X	X			
025S	1.25"	1.50"	.53"	.31"			X	X	X
035S	1.50"	1.81"	.63"	.50"			X	X	X

- 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

clancey DESIGN DISTRIBUTOR

All dimensions are for reference only.
Please call for samples and/or a technical drawing.

Part Number = KST - _ _ _ _ - _ - _ _ - _ _ _ _

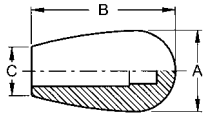
See complete instructions on page 242

Series Part Number | Mounting Configuration | Thread Size | Stud Projection Length (projecting stud models only)

Standard Teardrop

Material: Phenolic
Finish: Gloss Black





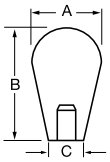
Series Part Number	Primary Dimensions A	B	C	Available Thread Sizes (code #) 1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	.25" Drive (D1)	.31" Drive (D2)	.38" Drive (D3)	.50" Drive (D5)
E911	.59"	.98"	.47"	X				X			
E921	.79"	1.22"	.55"		X				X		
0073	1.13"	1.47"	.50"	X	X	X					
E931	1.02"	1.65"	.67"			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





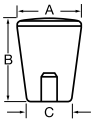
Series Part Number	Primary Dimensions A	B	C	D	Available Thread Sizes (code #) 1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	1/2-13 (50)	.44" Drive (D4)	.25" thru (T1)	.31" thru (T2)	.38" thru (T3)
5041	1.00"	1.63"	.50"	.50"	X	X						
0070	1.25"	1.70"	.56"	.50"	X				X			
0071	1.19"	1.80"	.56"	.50"	X	X	X			X	X	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





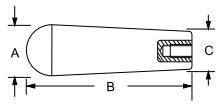
Series Part Number	Primary Dimensions A	B	C	D	Available Thread Sizes (code #) 8-32 (08)	10-32 (10)	1/4-20 (25)	5/16-18 (31)	3/8-16 (37)
G024	.78"	1.00"	.55"	.38"	X	X	X		
S051	1.16"	2.00"	.80"	.50"			X	X	X

- 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





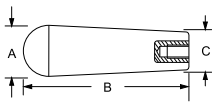
Series Part Number	Primary Dimensions A	B	C	Head Shape	Available Thread Sizes (code #) 1/4-20 (25)	5/16-18 (31)	3/8-16 (37)	.25" Drive (D1)	.31" Drive (D2)	.38" Drive (D3)	.25" thru (T1)
0691	.75"	2.28"	.56"	flat	X	X	X	X			X
0692	.88"	2.64"	.66"	flat	X	X	X		X	X	
0697	1.13"	3.00"	.63"	round	X	X	X	X			
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

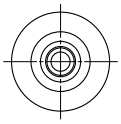
NSF RECOGNIZED STAINLESS STEEL

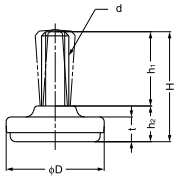
STAINLESS

NSF POLYPROPYLENE BASE

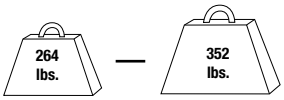
INCH



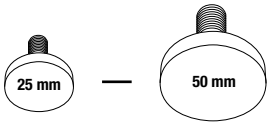








Static load range (per mount)



Base diameter range

Material: Cover - 304 stainless steel
Bolt - Steel
Base - Polypropylene
Finish: Cover - Satin
Bolt - Chrome
Base - White

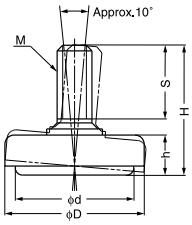
PART NUMBER	PRIMARY DIMENSIONS					MOUNTING	MAXIMUM STATIC LOAD
	BASE DIAMETER "D"	OVERALL HEIGHT "H"	STUD LENGTH "h1"	BASE CAP HEIGHT "h2"	BASE HEIGHT "t"	THREAD SIZE	
MH-25	25 (.098")	40 (1.57")	27 (1.06")	13 (.51")	9 (.35")	5/16-18	264 lbs.
MH-32	32 (1.26")	40 (1.57")	27 (1.06")	13 (.51")	9 (.35")	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

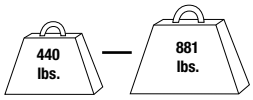
INCH

METRIC

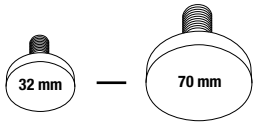








Static load range (per mount)



Base diameter range

Material: 304 stainless steel
Finish: Satin

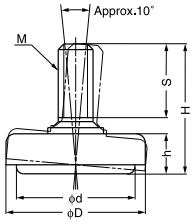
PART NUMBER	PRIMARY DIMENSIONS				MOUNTING		MAXIMUM STATIC LOAD
	"D"	"d"	"H"	"h"	"S"	THREAD SIZE	
MKPS-32N3	32 (1.26")	27 (1.06")	36 (1.41")	11 (.43")	21 (.83")	3/16-18	440 lbs.
MKPS-40N3	40 (1.57")	34 (1.34")	37 (1.46")	11.5 (.45")	21 (.83")	3/16-18	704 lbs.
MKPS-50N3	50 (1.97")	44 (1.73")	37.5 (1.48")	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

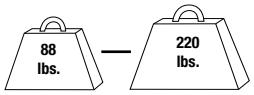
INCH

METRIC

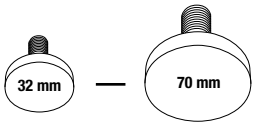








Static load range (per mount)



Base diameter range

Material: Body - 304 stainless steel
Base - Elastomer
Finish: Body - Satin
Base - Black

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.

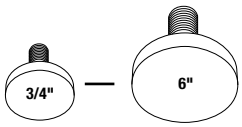
- **Swivels 10° in all directions.**
- **Furnished with jamb nuts.**
- **Steel or stainless steel.**
- **Standard plain or non-skid base.**

METAL BASE LEVELING MOUNTS

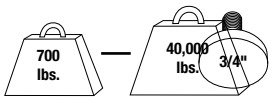
STEEL OR STAINLESS

INCH

PROJECTING STUD



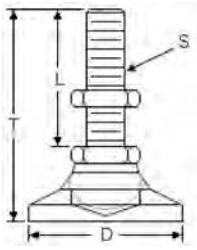
Base diameter range



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"	

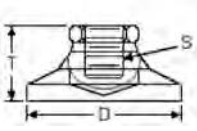




THREADED INSERT

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:

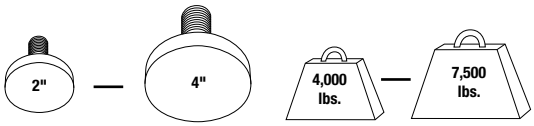
Base:
Steel – yellow zinc.
Stainless steel – plain.

Stud or Insert:
Steel – yellow zinc.
Stainless steel – plain.

Note:
Add .125" to total length for non-skid pad.

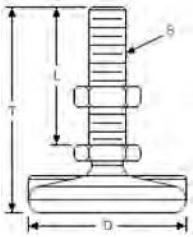
LEVELING MOUNTS
NYLON BASE

NYLON BASE LEVELING MOUNTS



Base diameter range | **Static load range (per mount)**

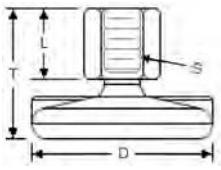




- **15˚ swivel in all directions.**
- **Non-corrosive high strength glass filled nylon base.**
- **Available with or without lag holes.**
- **Innovative "pop-out" lag holes allow for permanent mounting.**
- **Available with or without non-skid pad.**

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.

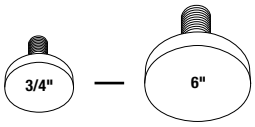
Metric threading is available, please call.

Note:
Add .06" to total length for non-skid base.

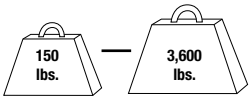
Material and Finish:

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

INCH

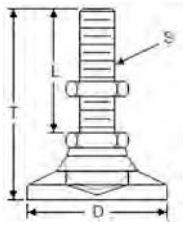
STEEL OR STAINLESS

CLEAN from CLANCEY

- 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

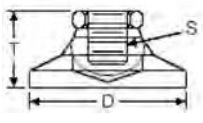




PROJECTING STUD - PART NUMBERS				PRIMARY DIMENSIONS		MOUNTING		MAXIMUM STATIC LOAD (LBS.)
STEEL		STAINLESS STEEL		BASE DIAMETER "D"	TOTAL LENGTH "T"	THREAD SIZE "S"	THREAD LENGTH "L"	
STANDARD	NON-SKID	STANDARD	NON-SKID					
79-703-10	79-803-10	79-703-15	79-803-15	.75"	1.53"	10-32	1.00"	150 lbs.
79-703-20	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.

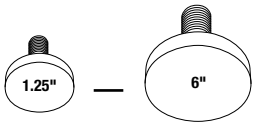
Material and Finish:

Base: Delrin, white.
Stud or Insert:
Steel – yellow zinc plated.
Stainless steel – plain.

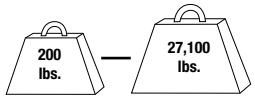
Note:
Add .125" to total length for non-skid base.

LEVELING MOUNTS
ANTI-VIBRATION

ANTI-VIBE® MACHINE MOUNTS



Base diameter range



Static load range (per mount)

STEEL OR STAINLESS

INCH

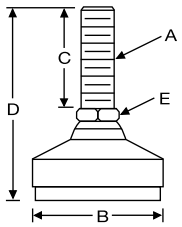
- Light, medium and heavy duty configurations.
- Can isolate transmitted vibration up to 98%.
- Protects your machinery.

Material:

Low carbon steel, or 303 stainless steel

PROJECTING STUD



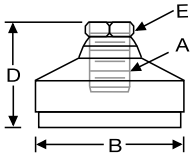


	PROJECTING STUD PART NUMBERS		PRIMARY DIMENSIONS		MOUNTING		MAXIMUM STATIC LOAD (LBS.)
	STEEL	STAINLESS STEEL	BASE DIA. "D"	LENGTH "T"	THREAD SIZE "S"	THREAD LENGTH "L"	
LIGHT DUTY	79-AV1L-200	79-AV1L-205	1.25"	3.50"	3/8 - 16	2.00"	200 LBS.
	79-AV2L-200	79-AV2L-205	1.88"	3.75"	1/2 - 13	2.00"	500 LBS.
	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.



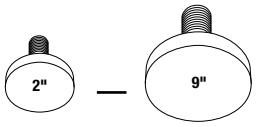


	THREADED INSERT PART NUMBERS		PRIMARY DIMENSIONS		MOUNTING	MAXIMUM STATIC LOAD (LBS.)
	STEEL	STAINLESS STEEL	BASE DIA. "D"	LENGTH "T"	THREAD SIZE "S"	
LIGHT DUTY	79-AV1L-00	79-AV1L-05	1.25"	1.50"	3/8 - 16	50 LBS.
	79-AV2L-00	79-AV2L-05	1.88"	1.75"	1/2 - 13	120 LBS.
	79-AV3L-00	79-AV3L-05	2.50"	1.88"	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.

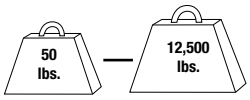
clancey DESIGN DISTRIBUTOR

™ S&W Mfg. Co., Inc.

www.clancey.com • 1-800-747-7405



Base diameter range



Static load range (per mount)

MIGHTY MOUNT™

INCH

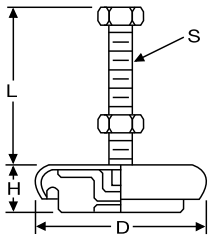
Material:

Threaded stud – steel, zinc plate
Base – steel, safety yellow powder coat

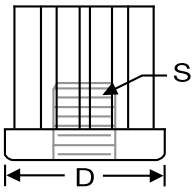
- **Meets OSHA anchoring standards.**
- **Rugged steel housing.**
- **High density non-skid base.**



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



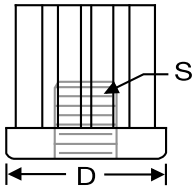


- **Easy installation.**
- **Durable construction.**
- **Metric available (please call).**

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					





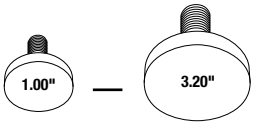
PART NUMBER	THREAD SIZE "S"	OUTSIDE DIAMETER "D"	TUBE GAUGE / SHAPE	TUBE DIAMETER	TUBE WALL THICKNESS	MAX. STATIC LOAD
79-TE1-1A	3/8 - 16	1.50" Round	16 gauge Round	1.50" Round	.065"	1500 lbs.
79-TE1-1B	1/2 - 13					
79-TE1-1C	5/8 - 11					
79-TE1-1D	3/4 -10					
79-TE2-2A	3/8 - 16	2.00" Round	11 gauge 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

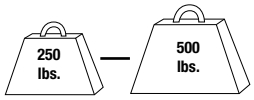
™ S&W Mfg. Co., Inc.

LEVELING MOUNTS
ECONOMY SERIES

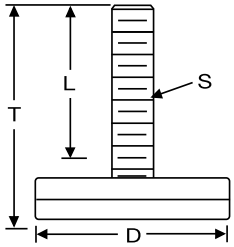
GLIDE-RITE™



Base diameter range



Static load range (per mount)



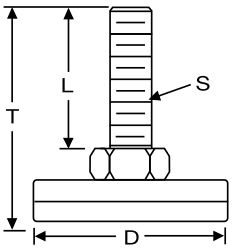


- **Economical design with capped base.**
- **Gliding thermo plastic or non-skid elastomer base.**
- **No articulation.**

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

™ S&W Mfg. Co., Inc.

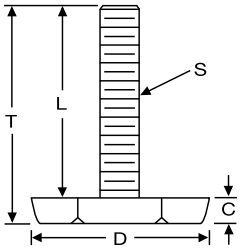
- **For light-duty applications.**
- **Economical design.**
- **No articulation.**

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

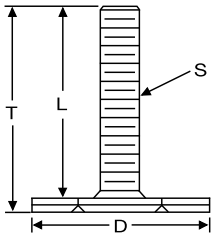
INCH

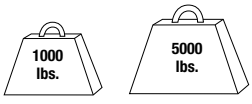
PART NUMBER	PRIMARY DIMENSIONS		MOUNTING		MAX. STATIC LOAD
	BASE DIA. (FLATS) "D"	TOTAL LENGTH "T"	THREAD SIZE "S"	THREAD LENGTH "L"	
79-H-1Z	.56"	1.09"	1/4 - 20	1.00"	1000 LBS.
79-H-2Z	.75"	1.63"	5/16 - 18	1.50"	2300 LBS.
79-H-3Z	.88"	1.66"	3/8 - 16	1.50"	3750 LBS.
79-H-4Z	.88"	2.66"	3/8 - 16	2.50"	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

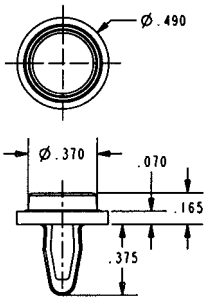
SHAPE	URETHANE PART NUMBER	DIMENSIONS		STANDARD COLORS			
		HEAD HEIGHT	DIAMETER	CLEAR	BLACK	WHITE	GRAY
CYLINDRICAL	4041-00	.085"	.312"	X	—	—	—
	4053*	.125"	.400"	—	X	—	—
	4052-00	.140"	.495"	—	X	—	—
	4031-00	.125"	.500"	—	—	X	—
	4001-00	.140"	.500"	X	X	X	—
	4006-00	.250"	.500"	—	—	X	—
	4029-00	.325"	.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







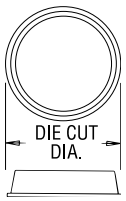
SNAP-IN BUMPER PART NUMBER	BUMPER DIMENSIONS		MOUNTING	
	HEIGHT	DIAMETER	HOLE DIAMETER	PANEL THICKNESS
8202-00-9909	.235"	.370"	.184"-.190"	.030"-.090"

Materials: Nylon base, Urethane bumper.
Color: Black

Note: Listed dimensions are nominal.

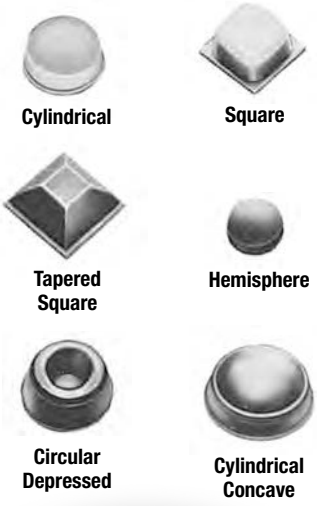
- **Acrylic based adhesive yields excellent long-term adhesion.**
- **Base is solvent and ultra-violet light resistant.**
- **High shear strength.**
- **4 standard colors (see chart)**
- **Application specific material formulations and custom colors are available, please call.**

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



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.



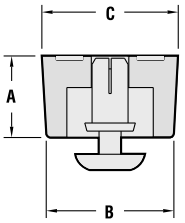


HEYCO® FEETS OF STRENGTH™

PUSH RIVET MOUNT

Material:
Polypropylene/ Elostomer blend





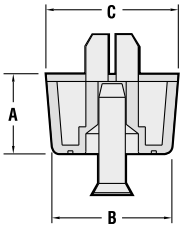
PART NUMBER	DIMENSIONS			MOUNTING	
BLACK	OVERALL HEIGHT "A"	TOP DIAMETER "B"	BOTTOM DIAMETER "C"	PANEL THICKNESS RANGE	HOLE DIAMETER
2517	.217"	.531"	.559"	.031" - .071"	.122"
2518	.217"	.531"	.559"	.071" - .110"	.122"
2519	.157"	.394"	.425"	.024" - .039"	.142"
2520	.157"	.394"	.425"	.039" - .079"	.142"
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





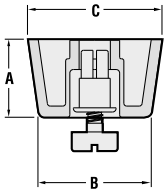
PART NUMBER	DIMENSIONS			MOUNTING	
BLACK	OVERALL HEIGHT "A"	TOP DIAMETER "B"	BOTTOM DIAMETER "C"	PANEL THICKNESS RANGE	HOLE DIAMETER
2543	.197"	.906"	.984"	.031" - .059"	.299"
2544	.236"	.787"	.827"	.197" - .315"	.303"
2545	.394"	.709"	.787"	.031" - .059"	.303"
2547	.472"	.709"	.787"	.031" - .047"	.319"
2549	.591"	.709"	.787"	.031" - .047"	.319"
2551	.709"	.709"	.787"	.031" - .047"	.319"

- **Skid and vibration resistant.**

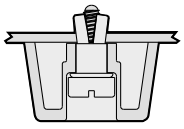
SCREW–RIVET MOUNT

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

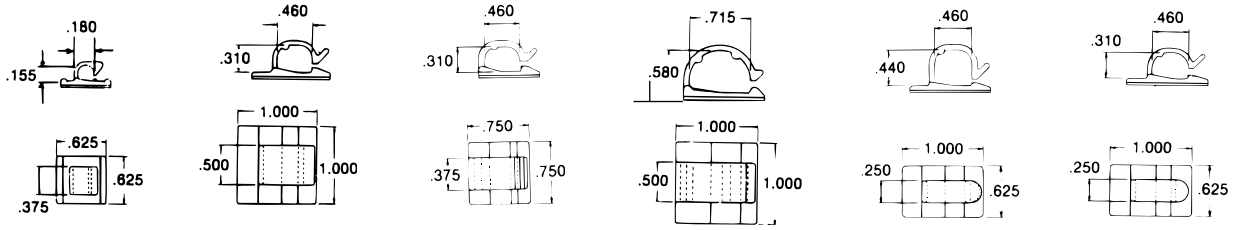
NON-CORROSIVE



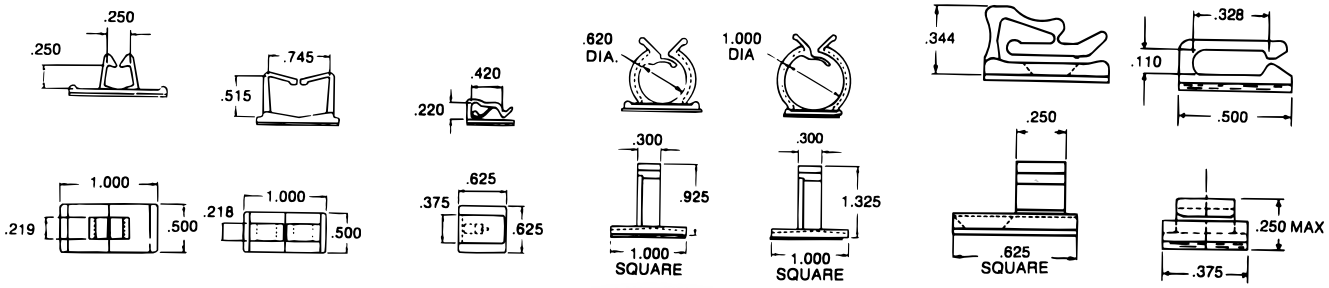
- **Easy hand installation.**
- **Install on clean, dry and smooth surfaces.**
- **Rounded corners and edges.**
- **Easy release paper protects adhesive until installation.**

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.

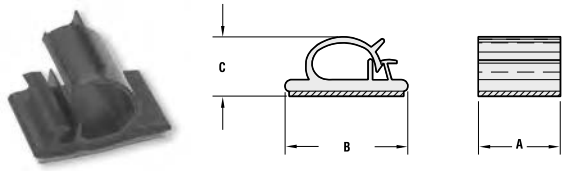
800-747-7405

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.**

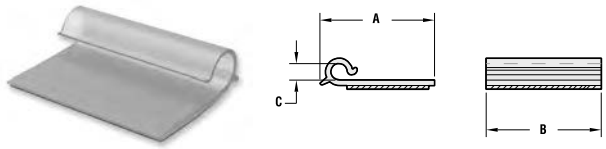


Material: Nylon with adhesive backed foam tape

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.

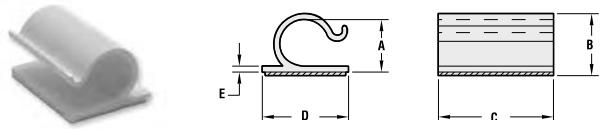
PART NUMBER	DIMENSIONS			MAXIMUM BUNDLE DIAMETER
CLEAR	A	B	C	
3839	1.00"	1.00"	.21"	.125"
3840	1.00"	1.25"	.27"	.187"
3841	1.00"	1.50"	.34"	.250"
3842	1.25"	1.75"	.42"	.312"
3843	1.25"	2.00"	.48"	.375"
3844	1.25"	2.25"	.64"	.500"

Try this part in your application Please call for samples.

800-747-7405

HEYCLIP™ "C" STYLE–ADHESIVE BACKED

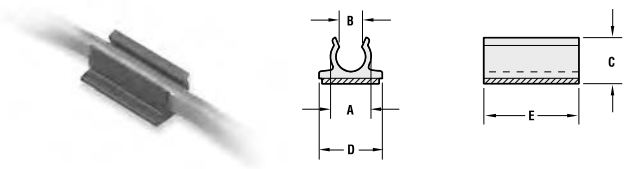
- **"Slide-in" bundle from the side.**
- **Large adhesive base.**



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.**

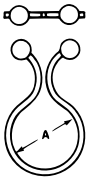


Material: PVC with adhesive backed foam tape.

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.**



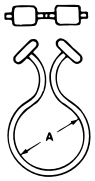
Material: Nylon
Color: Natural
Note: Bundle diameter range reflects a tight bundle

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







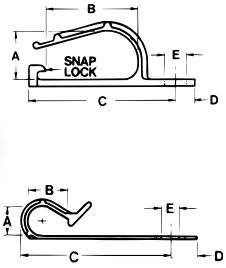
Style 2
"ADDED STRENGTH DESIGN"

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"

- **Can be fastened to a panel with a screw or a plasti-rivet.**

SCREW DOWN CLIPS



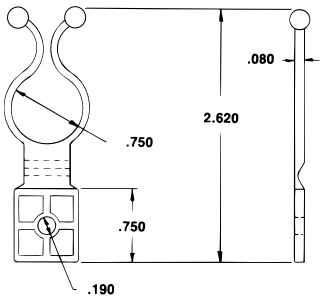




Style B

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

- **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.**



STANDOFF PURSE LOCK™ SCREW MOUNT – HINGED





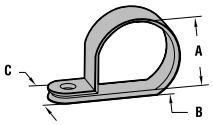
PART NUMBER
232-454600-02

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

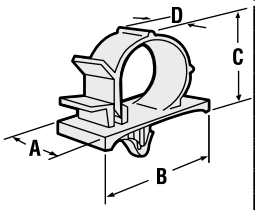
Note: These clamps can be installed with many styles of non-corrosive panel fasteners found on pages 248 to 251.

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

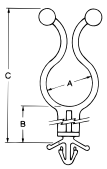
NON-CORROSIVE

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"

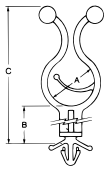
* Modified ball ends.

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

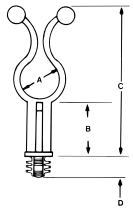
INCH

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.





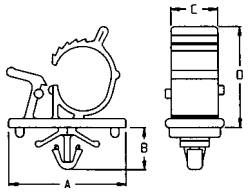
- **Adjustable ratcheting clip "squeezes" the bundle.**
- **Re-opens for adjustment/changes.**
- **Positive locking. Excellent for high vibration.**

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.**

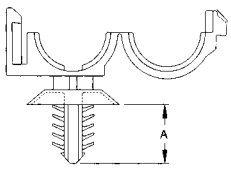
SNAP-IN CLIP WITH CHRISTMAS TREE™ MOUNT

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.**

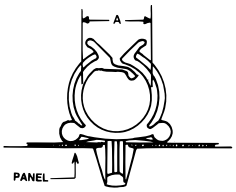
SNAP-IN CLIPS

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



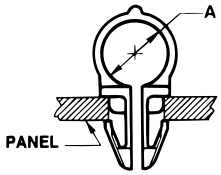


BOTTOM OPENING

- **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.**

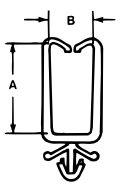
Try this part in your application Please call for samples.

800-747-7405

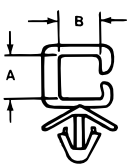
PART NUMBER	BUNDLE AREA		MOUNTING		REFERENCE DRAWING
	A	B	HOLE DIA.	PANEL THICKNESS	
220-041600-00	.255"	.430"	.187"	.040" - .060"	A
220-120212-00	.515"	.432"	.187"	.015" - .094"	
220-031212-06	.515"	.750"	.187"	.015" - .070"	
220-120216-00	.875"	.385"	.187"	.015" - .094"	
220-031212-05	1.186"	.478"	.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.

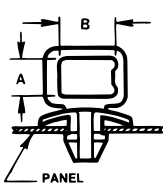
A



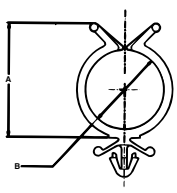
B



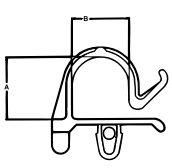
C



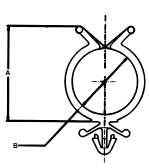
D



E



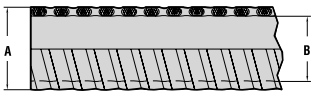
F



- **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.**

HEYCO-FLEX™ I LIQUID TIGHT CONDUIT

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)





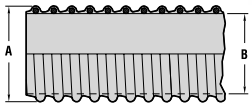
Material: PVC
Color: Gray
Flammability Rating: VW1
Certifications: UL #E-121095
CSA # LL-84578

- **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.**

HEYCO™ II LIQUID TIGHT TUBING

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)





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.

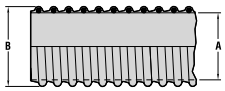
Cutting tool:
Part Number 8340



™ HEYCO Products, Inc.

HEYCO-FLEX™ VI LIGHT DUTY EQUIPMENT HOSE



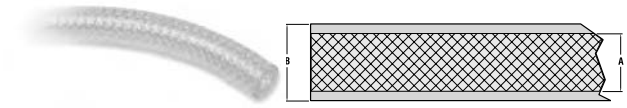


- **Suitable for light duty drainage, air, vacuum gravity feed and other equipment applications.**
- **Extremely flexible design.**

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



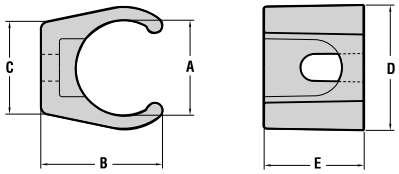
- **For use in industrial applications: factory air lines, automation machinery, pneumatic lines and water mains/feeds.**
- **Suitable for high working pressure under harsh conditions.**
- **For use with barb style hose connectors.**

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

™ HEYCO Products, Inc.

www.clancey.com • 1-800-747-7405

For use with Heyco Brand and other non-metallic liquid tight conduit and tubing.

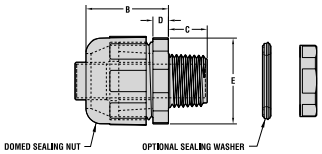
- **Resistant to salt water, weak acids, gasoline, oil, alcohol, grease and common solvents. (nylon parts).**
- **Use provided locknut or thread into NPT hole.**
- **No disassembly required.**
- **Use of sealing washer may be required for wet applications.**

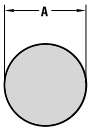
HEYCO-FLEX™ STRAIGHT CONNECTORS - THREADED

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

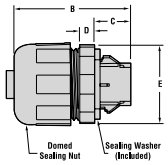
- **Easy to assemble, simply "snap-in" to panel hole.**
- **Resistant to salt water, weak acids, gasoline, oil, alcohol, grease and common solvents.**
- **No disassembly required.**
- **Suitable for indoor or outdoor use.**

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

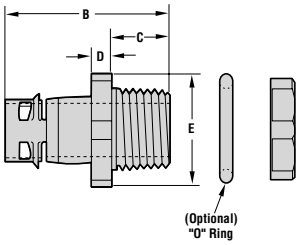
™ HEYCO Products, Inc.

HEYCO-FLEX™ III STRAIGHT CONNECTOR

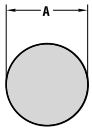


Size range 1/4" – 1"

- **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



SUGGESTED CLEARANCE HOLE FOR NON-THREADED MOUNTING

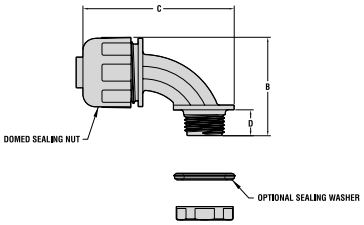
Material: Nylon
Flammability Rating: See chart above.
Certifications: # E121095, # LR-84579 (halogen free only)

HEYCO-FLEX™ SWEEP CONNECTOR - THREADED

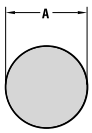


Size range 3/8" – 2"

- **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	----



SUGGESTED CLEARANCE HOLE FOR NON-THREADED MOUNTING

* 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

clancey DESIGN DISTRIBUTOR

™ HEYCO Products, Inc.

www.clancey.com • 1-800-747-7405

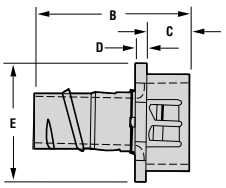
- **UL approved when used with Heyco-Flex™ II tubing.**
- **Low piece part and installed cost.**
- **One piece design with smooth internal surfaces for easy wire routing.**
- **No tools required.**

"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

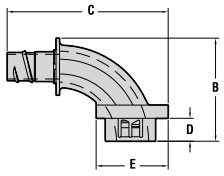
- **UL approved when used with Heyco-Flex™ II tubing**
- **Low piece part and installed cost.**
- **One piece design with smooth internal surfaces for easy wire routing around corners.**
- **No tools required.**

"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

Accessories – Finishing Collars (Black or Gray) All Quick Twist Models



To Order: Add suffix "FC" to any "Quick Twist" series part number

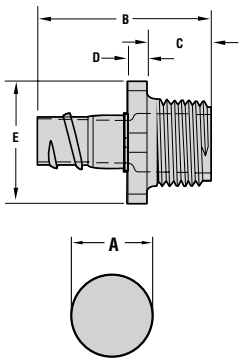
Note: Not available in 1/4" size

™ HEYCO Products, Inc.

WIRE MANAGEMENT
"QUICK TWIST" CONNECTORS

"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.**

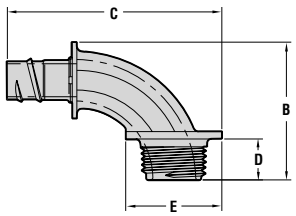
FITS CONDUIT TRADE SIZE	"Quick Twist" Connector Straight - NPT Threaded PART NUMBER		DIMENSIONS				MOUNTING	
	BLACK	GRAY	MAXIMUM LENGTH "B"	THREAD LENGTH "C"	WRENCHING NUT "D"	WRENCHING FLATS "E"	CLEARANCE HOLE DIAMETER	THREADED HOLE
1/4"	8517	8518	1.56" (39.6mm)	.465" (11.8mm)	.200" (5.1mm)	.750" (19mm)	----	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

clancey DESIGN DISTRIBUTOR

™ HEYCO Products, Inc.

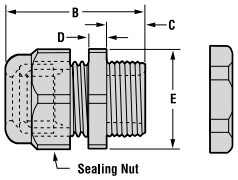
www.clancey.com • 1-800-747-7405

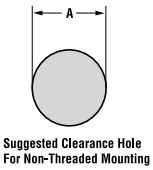
- **For liquid tight passage of cable or tubing.**
- **Suitable for NEMA 4 and NEMA 6 enclosures.**

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:
- **#E 51579 (shaded)**
- **#E 51579 (non-shaded)**
- **# LR-93876 (all)**

Locknuts:

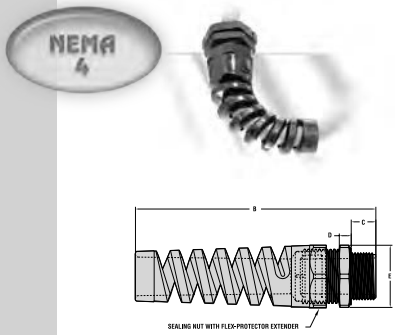
Order separately for NPT Hub parts, if a lockout is desired.



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.**



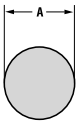
CABLE DIAMETER RANGE	Liquid Tight Pigtail Fittings PART NUMBER		DIMENSIONS				MOUNTING	
	BLACK	GRAY	MAXIMUM LENGTH "B"	THREAD LENGTH "C"	WRENCHING NUT THICKNESS "D"	WRENCHING FLATS "E"	CLEARANCE HOLE "A"	DIRECT THREAD SIZE
PG HUB THREADING (LOCKNUT INCLUDED)								
.064" - .210"	3464	3465	2.44"	.33"	.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)**

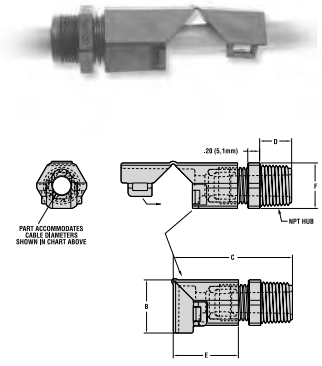


Mounting Hole

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

clancey DESIGN DISTRIBUTOR

™ HEYCO Products, Inc.

www.clancey.com • 1-800-747-7405

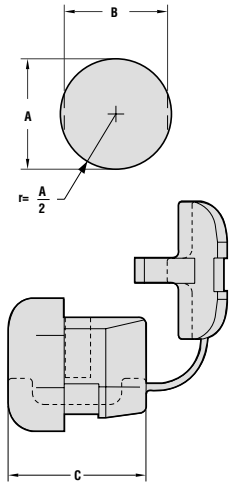
For Round Cables

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

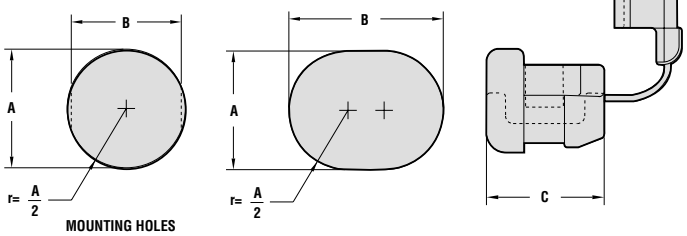
Certifications: # E-15331
LR-8919

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.**



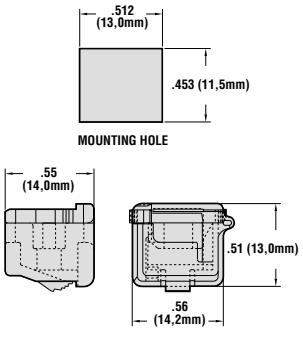
Round Cable

Material: Nylon

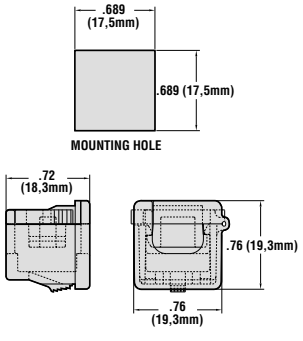
Certifications: # E-15331
LR-8919

Flammability Rating: 94V-2

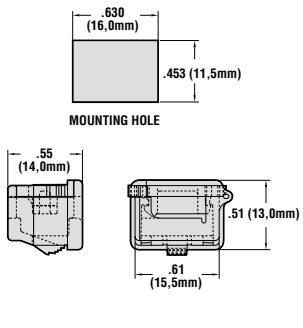
Part Numbers
1829, 1830, 1832, 1833



Part Numbers
1834, 1835, 1836, 1837, 1848



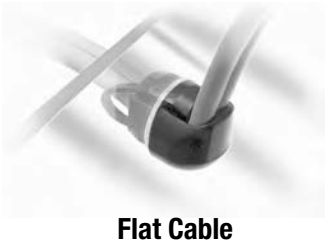
Part Number
1847



™ 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.**



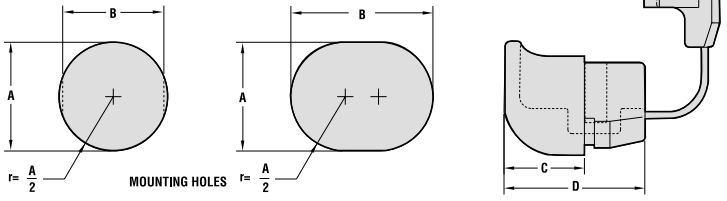
Round Cable

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"							
	16/2	.16" X .30"				.500"-.515"			
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"

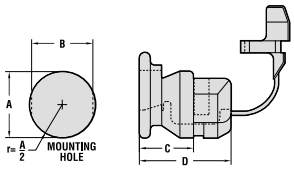


- **Flared end prevents sharp bending and assures longer cable life.**

Material: Nylon

Certifications:
#E-15331
 # LR-8919

Flammability Rating: 94V-2



*** See Bell mouth for materials and certifications**

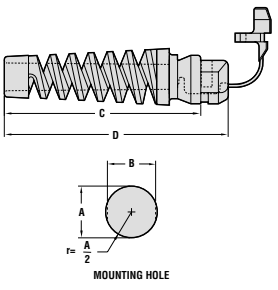
For Flat or Round Cables

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"			



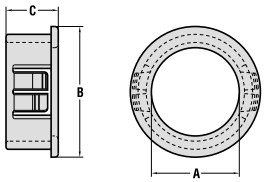
- **"Pigtail" end prevents sharp bending and assures long cable life**



™ HEYCO Products, Inc.

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"

* Single chassis design, call for drawing

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"

METRIC SIZES AVAILABLE, SEE PAGE 326.

Material: Nylon

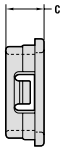
Certifications: # E-15331
LR-8919

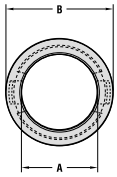
Flammability Rating: 94V-2

SHORTY BUSHINGS

- **Same as snap bushing, but with minimal internal protosion.**





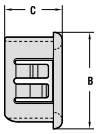


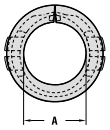
PART NUMBER		DIMENSIONS			MOUNTING	
BLACK	WHITE	INSIDE DIAMETER "A"	HEAD DIAMETER "B"	OVERALL HEIGHT "C"	MAXIMUM PANEL THICKNESS	HOLE DIAMETER
2800	2801	.125"	.250"	.234"	.062"	.187"
2859	2860	.125"	.281"	.234"	.062"	.218"
2853	2854	.218"	.343"	.234"	.062"	.281"
2810	2811	.250"	.375"	.234"	.062"	.312"
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.**



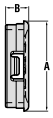


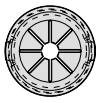


PART NUMBER	DIMENSIONS			MOUNTING	
BLACK	INSIDE DIAMETER "A"	HEAD DIAMETER "B"	OVERALL HEIGHT "C"	MAXIMUM PANEL THICKNESS	HOLE DIAMETER
2865	.265"	.421"	.390"	.125"	.375"
2867	.312"	.500"	.406"	.125"	.437"
2871	.312"	.562"	.406"	.125"	500"
2869	.390"	.640"	.406"	.125"	.562"
2872	.453"	.687"	.406"	.125"	.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"

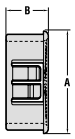
Specifications (All Models)

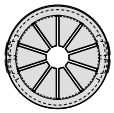
Material: Nylon
Certifications: UL # E-15331
CSA # LR-8919
Flammability Rating: 94V-2

UNIVERSAL BUSHING

- **Flexible shutters adjust to support any shape.**
- **Absorbs vibration, cushions and insulates cables, tubing, or shafts.**





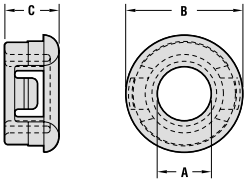


PART NUMBER	DIMENSIONS			MOUNTING	
BLACK	MAXIMUM INSIDE DIAMETER	HEAD DIAMETER "A"	OVERALL HEIGHT "B"	MAXIMUM PANEL THICKNESS	HOLE DIAMETER
2055	.312"	.600"	.385"	.125"	.500"
2077	.437"	.718"	.406"	.125"	.625"
2089	.500"	.844"	.390"	.125"	.750"
2106	.500"	.890"	.390"	.125"	.812"
2119	.562"	.937"	.453"	.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

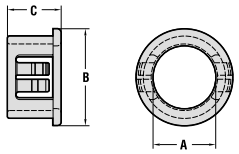
Certifications: #E-15331
 # LR-8919

METRIC SNAP BUSHINGS

METRIC

- **Standard metric hole sizes for the popular snap bushing line.**





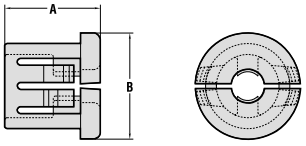
PART NUMBER		DIMENSIONS			MOUNTING	
BLACK	WHITE	INSIDE DIAMETER "A"	HEAD DIAMETER "B"	OVERALL HEIGHT "C"	MAXIMUM PANEL THICKNESS	HOLE DIAMETER
2142	2143	12mm	18.5mm	10.3mm	2.5mm	16mm
2144	2145	15mm	22.6mm	10.3mm	2.5mm	20mm
2146	2147	19mm	27.8mm	11.5mm	2.5mm	25mm
2148	2149	26mm	34.9mm	11.5mm	2.5mm	32mm

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

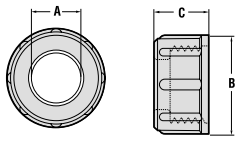
Certifications: #E-15331
 # LR-8919

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"

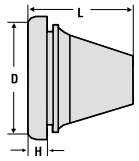
Material: Nylon (2282)
Phenolic (2284, 2286)

LIQUID TIGHT BUSHINGS

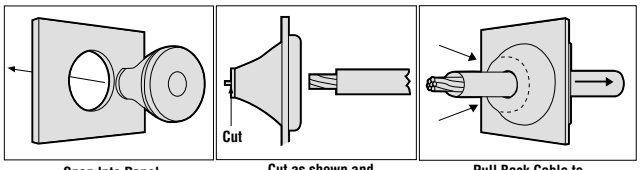
CABLE DIAMETER RANGE	"Snap-In" Liquid Tight Grommets GRAY	DIMENSIONS			MOUNTING	
		HEAD DIAMETER "D"	HEAD THICKNESS "H"	OVERALL LENGTH "L"	HOLE DIAMETER	PANEL THICKNESS RANGE
.12" - .20"	**4014**	.79"	.27"	.50"	.52"	.040" - .160"
.20" - .28"	**4015**	.79"	.23"	.79"	.63"	.040" - .160"
.28" - .39"	**4016**	.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.**





Material: Neoprene, Gray
Certifications: Fire tested to FMVSS 302, Vehicle Safety Norm 302
Protection Class IP 67 per EN 60529



Snap Into Panel | Cut as shown and Insert Cable | Pull Back Cable to Form Seal

Installation

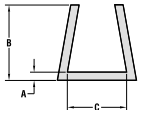
Material: Nylon **Flammability Rating:** 94HB

FLEXIBLE GROMMETTING

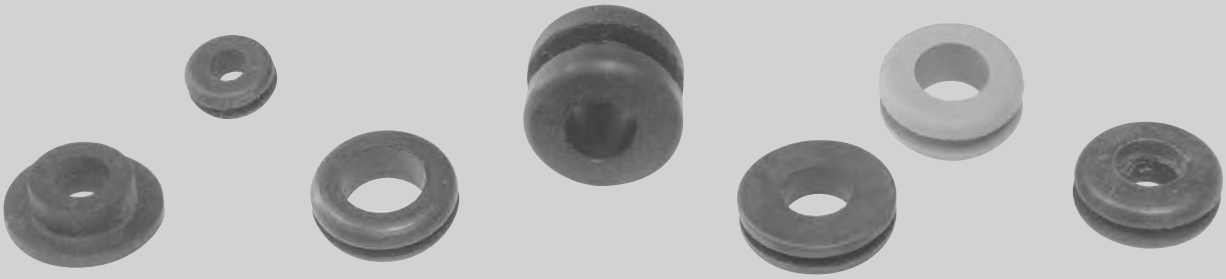
PART NUMBER		DIMENSIONS			MOUNTING
BLACK	NATURAL	THICKNESS "A"	OUTSIDE DEPTH "B"	INSIDE WIDTH "C"	MAXIMUM PANEL THICKNESS
2220	**2221**	.032"	.125"	.031"	.036"
2222	**2223**	.032"	.173"	.109"	.071"
2224	**2225**	.032"	.173"	.109"	.105"
2226	**2227**	.047"	.189"	.156"	.164"
2228	**2229**	.047"	.189"	.187"	.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.**



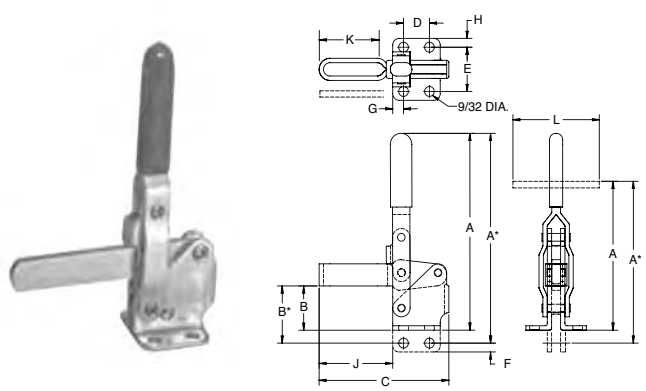






Clancey offers a full line of grommets and bushings made from rubber compounds. Please call for samples or information.

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

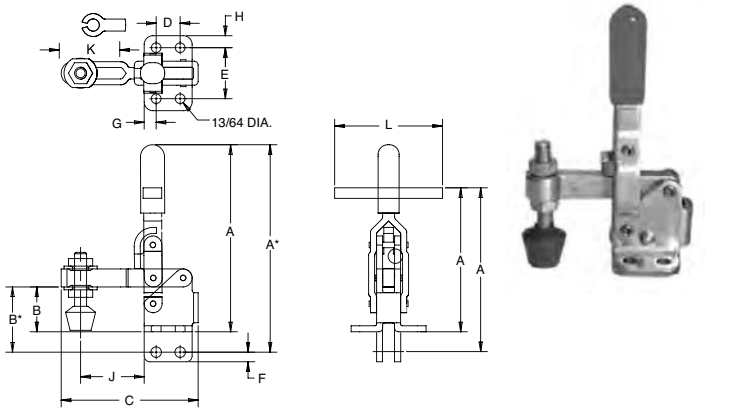
*Straight base type dimension. Note: Width of tee handle is 3 5/8".
- Solid arm models include a bolt retainer
- U-Bar models include 2 flange washers

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**



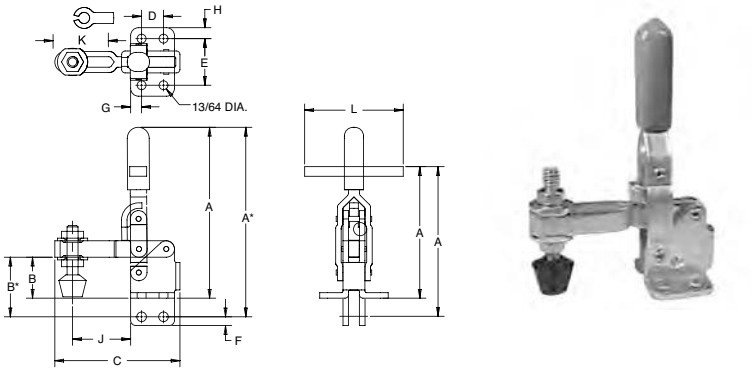
PART NUMBER	A	B	C	D	E	F	G	H	J	Handle Type	Bar Type	Base Type
70330	3 3/4	15/16	2 9/16	1/2	1 1/16	—	1/4	1/4	1 1/16	Vertical	Solid	Flange
70335	3 15/16	1 1/8	2 9/16	1/2	—	1/4	1/4	1/4	1 1/16	Vertical	Solid	Straight
70340	2 13/16	15/16	2 9/16	1/2	1 1/16	—	1/4	1/4	1 1/16	Tee	Solid	Flange
71016	2 13/16	1 1/8	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**



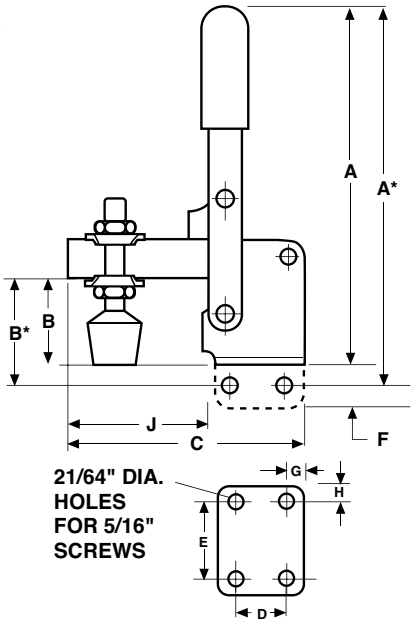
PART NUMBER	A	B	C	D	E	F	G	H	J	Handle Type	Bar Type	Base Type
70342	4	15/16	3	1/2	1/16	—	1/4	1/4	1 3/4	Vertical	U-Bar	Flange
71017	4	1 1/8	3	1/2	—	9/32	1/4	1/4	1 3/4	Vertical	U-Bar	Straight
71018	2 13/16	1 1/8	3	1/2	—	9/32	1/4	1/4	1 3/4	Tee	U-Bar	Straight
71019	2 13/16	15/16	3	1/2	1/16	—	1/4	1/4	1 3/4	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"

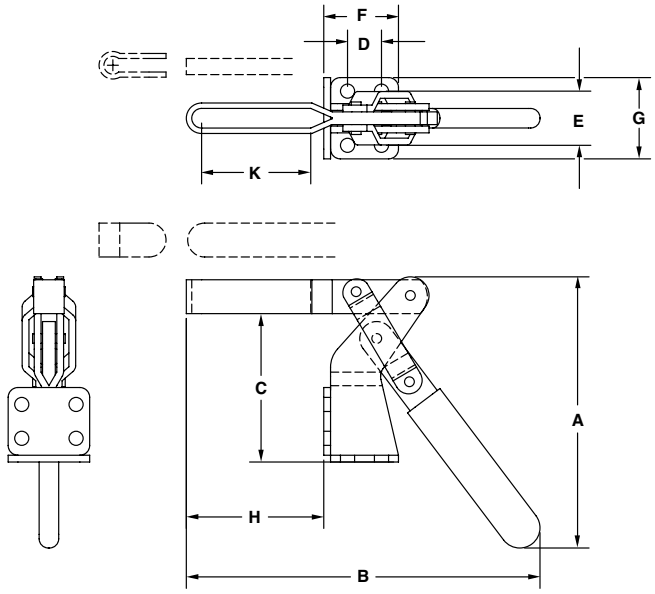
Clancey can provide crossover information for Carr Lane and De-Sta-Co.

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**



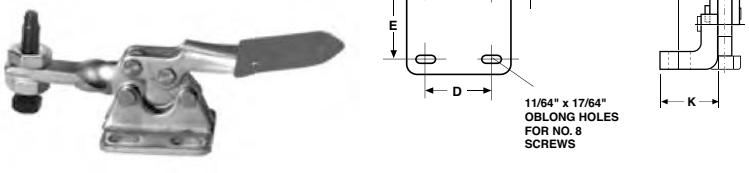


Clancey can provide crossover information for Carr Lane and De-Sta-Co.

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



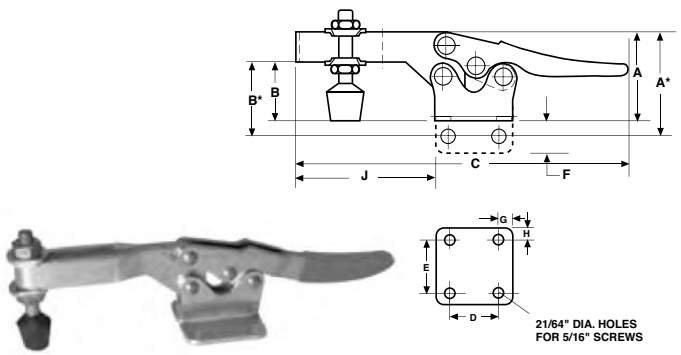
The small size of this clamp is ideal for jobs requiring minimal hold down force. Available in solid or U-Bar construction. All models are supplied with 70962 nylon spindle assemblies and blue vinyl handles.

- **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**

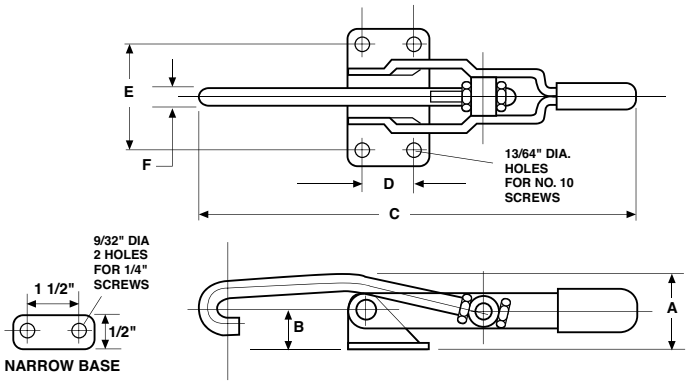
PART NUMBER	A	B	C	D	E	F	G	H	J	Bar Type	Base Type
70270	2 1/2	1 3/4	10 1/4	1 5/8	1 5/8	—	5/16	5/16	4 1/8	U-Bar	Flange
70275	3 1/16	2 3/8	10 1/4	1 5/8	—	7/8	5/16	5/16	4 1/8	U-Bar	Straight

*Straight base type dimension
• U-Bar models include 2 flange washers

PULL ACTION

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.





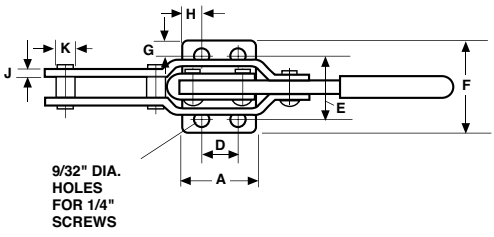
Note: Longer Hook Lengths Available Upon Request
Note: 70580 is a narrow base 1/2” wide

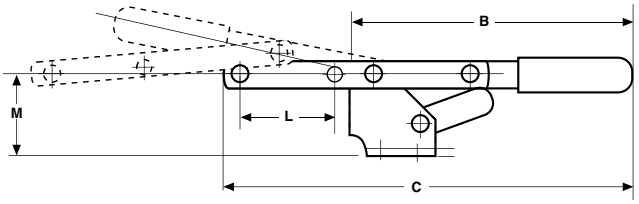
Clancey can provide crossover information for Carr Lane and De-Sta-Co.

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

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.



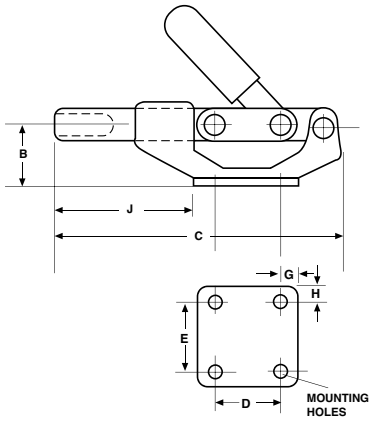




PART NUMBER	A	B	C	D	E	F	G	H	J	K	L	M	Holding Capacity (lbs)	Wt. (oz.)
70550	1 3/8	5 11/16	8 5/16	3/4	1 1/4	1 3/4	1/4	5/16	1/8	3/8	1 7/8	1 5/8	375	12
70555	1 7/8	4 5/8	9 5/8	1 1/4	1 25/32	2 1/2	3/8	11/32	1/8	3/8	1 7/8	2 1/16	1,200	18

STRAIGHT LINE



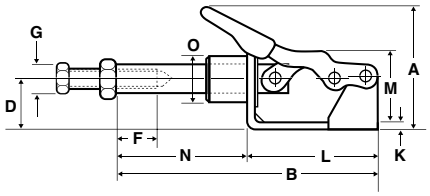


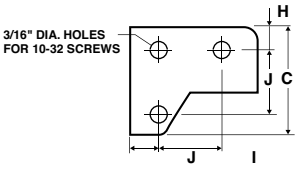
This straight-line extra heavy duty clamp is constructed of malleable iron castings and cold rolled steel. The pivot joints are stainless steel. The mounting base is precision machined for flatness. A blue vinyl handle is included.

- **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

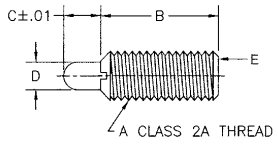
Unlike conventional spring plungers, the body of a Solid Drive Plunger is machined in one piece. The spring is assembled from the top so that there is no need for a set screw. Solid Drive Plungers do not have a set screw which can loosen or separate from the plunger body. The advantage is no lost springs, 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

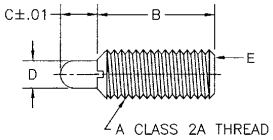
Without Locking Element

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

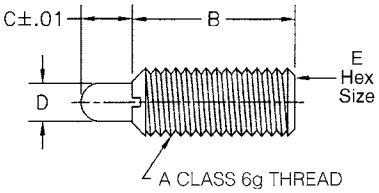
SS PART NUMBER	STEEL PART NUMBER
30510	**30821**
30500	**30421**
30511	**30822**
30501	**30422**
30512	**30823**
30502	**30423**
30513	**30824**
30503	**30424**
30514	**30825**
30504	**30425**
30515	**30826**
30505	**30426**
30516	**30827**
30506	**30427**
30517	**30828**
30507	**30428**
30518	**30829**
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

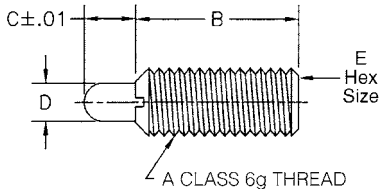
SS PART NUMBER	STEEL PART NUMBER	Thread Size A	Initial Force (kg)	Final Force (kg)	B	C	D	Hex Size E
30890	**27250**	M4 x 0.7	0.32	1.04	16	2.5	1.78	2.0
30490	**26850**	M4 x 0.7	1.22	3.29	16	2.5	1.78	2.0
30891	**27251**	M5 x 0.8	0.59	1.22	19	3.0	2.36	2.5
30491	**26851**	M5 x 0.8	1.31	5.00	19	3.0	2.36	2.5
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

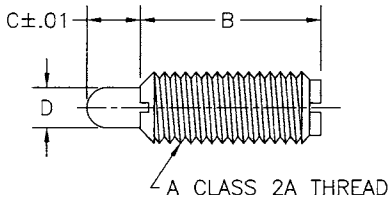
- Material: Body – Low Carbon Steel, Black Oxide
  Tip – Delrin or Steel
- Thread: 2A-UNC
- 3D Solid Models are available in multiple formats
- Conforms to TCMA dimensional standards
- Thread: 2A-UNC
- Available in metric sizes.

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

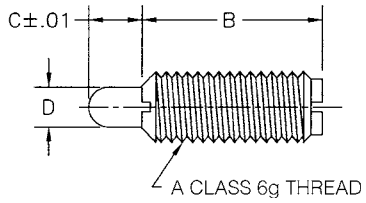
SHORTIE SPRING PLUNGERS METRIC

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

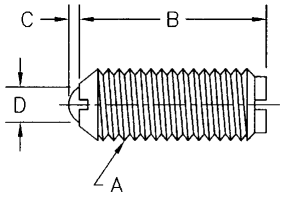


PART NUMBER	Thread Size of Plungers	
	Inch	Metric
27501	6-32	—
27502	8-32	M4
27503	10-32	M5
27504	1/4-20	M6
27505	5/16-18	M8
27506	3/8-16	M10
27507	1/2-13	M12
27508	5/8-11	M16
27509	3/4-10	M20
27510	1-8	M25

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

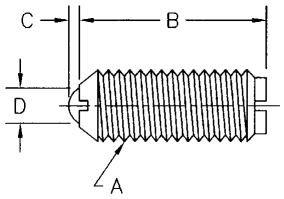
SS PART NUMBER	STEEL PART NUMBER	Thread Size A	Initial Force (lbs)	Final Force (lbs)	B	C	D
11101	10926	4-48	0.12	0.50	3/16	0.020	0.062
11103	10928	6-40	0.50	1.00	5/16	0.023	0.078
11104	10929	8-36	0.50	1.25	11/32	0.025	0.093
11105	10901	10-32	0.50	1.50	33/64	0.025	0.093
11106	10902	10-32	1.50	3.00	33/64	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

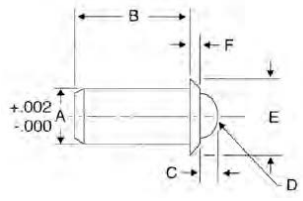
SS PART NUMBER	STEEL PART NUMBER
10951	**10871**
10952	**10872**
10953	**10873**
10954	**10874**
10955	**10875**
10956	**10876**
10957	**10877**
10958	**10878**
10959	**10879**
10960	**10880**
10961	**10881**
10962	**10882**
10963	**10883**
10964	**10884**
10965	**10885**
10966	**10886**
10967	**10887**
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

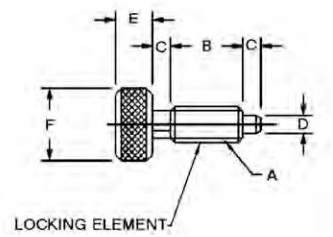
Light Force

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

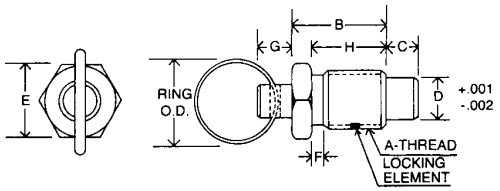
Metric – Hand Retractable Locking Style Plungers

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



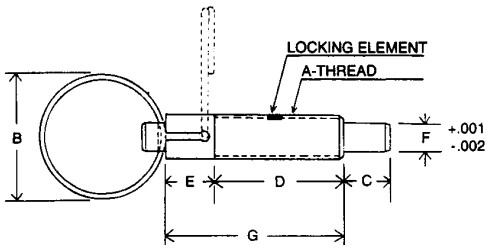


Pull Ring – Short Locking Plungers

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



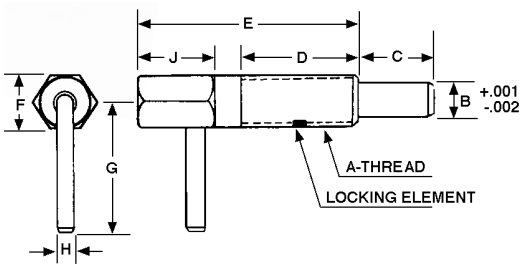


Pull Ring – Short Locking Plungers

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
60500	850-500	6P500	6L500	843-500	6M500	512	4-1/4	5-1/8	108	130
60550	850-550	6P550	6L550	843-550	6M550	562	4-3/4	5-5/8	121	143
60600	850-600	6P600	6L600	843-600	6M600	612	5-1/4	6-1/8	133	155
60650	850-650	6P650	6L650	843-650	6M650	662	5-3/4	6-5/8	146	168
60700	850-700	6P700	6L700	843-700	6M700	712	6-1/4	7-1/8	159	181
60750	850-750	6P750	6L750	843-750	6M750	762	6-3/4	7-5/8	172	193
60800	850-800	6P800	6L800	843-800	6M800	812	7-1/4	8-1/8	184	206
60850	850-850	6P850	6L850	843-850	6M850	862	7-3/4	8-5/8	197	219
60900	850-900	6P900	6L900	843-900	6M900	912	8-1/4	9-1/8	210	232

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.



INDEX

Product Class	Description	Pages
01-	Flush Cup Latch	62-63
02-	Magnetic Catch	116-117
03XXXX	Gas Springs	239-240
05XXXX	Gas Springs	239
06XXXX	Gas Springs	239
07-	Over Center Latch - Living Hinge	134
09-	Captive Screw, Fast Lead - Small	199-200
10-	Drive Rivet	220
10XX	Mounting Bracket, Tubing	306
10XX	Bushing, Strain Relief	313-314, 317
10XXX	Spring Loaded Plunger	335-336
1116-	Rivet, Miniature	224
11XXX	Spring Loaded Plunger	335-336
11XX	Bushing, Strain Relief	313-314, 317
12-	Installation Tool	200
12-	Captive Screw, Fast Lead - Medium	201-202
12XX	Bushing, Strain Relief	313, 317
13XX	Hole Plug	234
13XX	Bushing, Strain Relief	316
14-	Ejector Spring	192
14XX	Bushing, Strain Relief	314, 316
14XXXX	Gas Springs	239-240
15XXXX	Gas Springs	239
150XXX	Grab Handle, Composite	275
15XX	Bushing, Strain Relief	314, 317
16XX	Hole Plug	233
16XX	Bushing, Strain Relief	317
16XXXX	Gas Springs	239-242
17-	Captive Screw, Fast Lead - Large	203-204
17XX	Hole Plug	233
17XX-	Rivet, Micro Tuflok	223
18XX	Bushing, Strain Relief	314-315
19-	Swell Latch	80-82
19XX	Cord Clip, Various	303
201-	Plasti Rivet	221
20XX	Bushing, Snap	318-320
20XXXX	Gas Springs	243
212-	Plasti Grommet	230-231
215-	Stalok Fastener	229
217-	Encloz Grommet	231
21XX	Hole Plug	232
21XX	Bushing, Snap	318-320
220-	Cord Clip, Various	301, 304
226-	Plasti Rivet	221
22XX	Bushing, Snap	319-321
231-	Plasti Rivet	221
232-	Cord Clip, Purse Lock	301, 303
236-	Rivet, Rachet or Snap	224
23XX	Bushing, Snap	318
23XXXX	Gas Springs	243
24-	Flush T-Handle Latch	59, 68-69
242-	Plasti Grommet	230
24XX	Hole Plug	232, 234-235
24XX	Bushing, Snap	318
254-	Canoe Clip	229
25XX	Hole Plug	232, 235
25XX	Bushing, Snap	320
25XX	Bumper, Feets of Strength	298
263-	Strike and Latch	124

Product Class	Description	Pages
260XXX	Grab Handle, Composite	273
261XXX	Flush Pull Ergostyle	266
26XX	Hole Plug	232-234
26XX-	Christmas Tree Fastener	227, 229
26XXX	Spring Loaded Plunger	329, 331, 333-334
26XXXX	Pine Tree Clip	228
2700-	Rivet, Snap	224
27XX	Hole Plug	232-234
27XXX	Spring Loaded Plunger	329, 331, 333-334
274XX	Spring Loaded Plunger, Retractable	337-339
275XX	Spring Loaded Plunger, Retractable	337
275XX	Plunger Wrenches	334
278XX	Spring Loaded Plunger, Retractable	339
28XX	Bushing, Snap	319
29-	Installation Tool	147, 185
29-	Key, Toolhead Recess	57
29XXXX	Gas Springs	240-242
30XX	Hole Plug	233
30XXX	Spring Loaded Plunger	330-333
30010-	Clamps, T-bolt	341
30011-	Clamps, T-bolt	341
30020-	Clamps, T-bolt	341
30021-	Clamps, T-bolt	341
30XXXX	Gas Springs	239-242
300XXXXX	Rivet, Tuflok	223
310XXXXX	Rivet, Tuflok	223
31XX	Hole Plug	233-234
31XXXX	Gas Springs	241
320-	Tree-Lok Fastener	124
325-	Clamps, Microgear	342
32XX	Fitting, Liquid Tight	311-312
32XXXX	Gas Springs	240-242
33XX	Cable Clamp	302
34XX	Hole Plug	235
34XX	Fitting, Liquid Tight	311-312
345-	Clamps, Microgear	342
354-	Christmas Tree Fastener	227, 229
359-	Clamps, Microgear	342
36003-	Clamps, WaveSeal	340
36XXXX	Gas Springs	241
36XXXXXX	Pine Tree Clip	228
37-	Flexible Draw Latch	143-146
37XX	Cord Clip, Adhesive Backed	300
37XXX	Grab Handle, Composite	275
37215-	Clamps, SmartSeal	340
38-	Drive Rivet	218-220
38XX	Hole Plug	235
38XX	Cord Clip, Adhesive Backed	300
38XX	Cord Clip, Snap-in	300, 302
39XX	Hole Plug	235
39XX	Cord Clip, Adhesive Backed	300
39XXXXX	Pine Tree Clip	228
40XX	Hole Plug	235
40XX	Liquid Tight Grommets	321
40XX-	Bumper, Self Adhesive - Urethane	296
422XXX	Composite Butt Hinge	174
43XX	Hole Plug	234
45XXX	Gas Springs	239
45XXXX	Gas Springs	238-239, 242

Product Class	Description	Pages
46XXXX	Gas Springs	239-240, 242
43-	Ejector Spring	186
47-	Ball Stud Brackets	246-250
48XXXX	Gas Springs	242
49XXXX	Gas Springs	239
500-	Chest Handle	276
502-, 503-	Chest Handle	277
50XX-	Bumper, Self Adhesive - PVC	297
51-	Captive Screw Design Guide	216
52-	Captive Screw Design Guide	216
53-	Captive Screw Design Guide	216
53XXXX	Gas Springs	238-240
54-	Installation Tool	179
55-	Stainless Roller Catch	122
56-	Plunger, Spring Loaded	205-206
56XXXX	Gas Springs	238
57-	Spring Latch	56-58
58-	Captive Screw Design Guide	216
5T-	Captive Screw Design Guide	216
6PXXX	Clamps, Pow'r Gear	342
6LXXX	Clamps, Pow'r Gear	342
6MXXX	Clamps, Pow'r Gear	342
60XXX	Clamps, Pow'r Gear	342
600XXXXX	Rivet, Screw Type Tuflok	223
610XXXXX	Rivet, Screw Type Tuflok	223
61XXXX	Gas Springs	238
61A	Anchor Rivet	222
62-	Lift and Turn Compression Latch	50-52
62XXX	Clamps, Microgear	342
64-	Paddle Latch	92-93
64XXXX	Gas Springs	238
65XXXX	Gas Springs	238
68-	"T" and Bail Handle Cam Latch	70-72
69-	Arrowhead Cam Latch	73
6900	Composite Roller Catch	122
6901-	Composite Roller Catch	122
7004-	Weld-on "Bullet" Hinge	159-160
7005-	Weld-on "Bullet" Hinge	159
7010-	Weld-on "Bullet" Hinge	159-160
7011-	Weld-on "Bullet" Hinge	159
7012-	Weld-on "Bullet" Hinge	159
7013-	Weld-on "Bullet" Hinge	159
7015-	Weld-on "Bullet" Hinge	160
707-, 708-, 709-	Spring Action Latch Bolt Style	112
719-, 720-	Spring Action Latch - Heavy Duty	112
70XXX	Toggle Clamps	322-328
71XXX	Toggle Clamps	322-327
72XXXX	Gas Springs	239
75XXXX	Gas Springs	239-240
77-	Lynch Pin, Locking Pins	213-214
7800-	Strike and Latch	124
79-	Mighty Mount or Glide Rite	293-294
79-1XX	Leveling Mount, Nylon Base	290
79-2XX	Leveling Mount, Nylon Base	290
79-5XX	Leveling Mount, Metal Base	289
79-6XX	Leveling Mount, Metal Base	289
79-7XX	Leveling Mount, Delrin Base	291
79-8XX	Leveling Mount, Delrin Base	291

Product Class	Description	Pages
79-AV	Leveling Mount, Anti-Vibe	292
79-H	Leveling Mount, Hex	295
79-S	Leveling Mount, Stamped	295
79-TE	Thread End	293
79-WG	Glide, Hex	294
7XX-	Spring Action Latch	112
81-	1/4 Turn Fastener, Small	179-182
82-	1/4 Turn Fastener, Medium	183-188
8202-	Bumper, Snap-in	296
83XX	Conduit Cutting Tool	305
83XX	Braided Tubing, Liquid Tight	306
83XX	Liquid Tight Connector	307
843-	Clamps, Pow'r Gear	342
84XX	Conduit and Tubing, Liquid Tight	305-306
84XX	Liquid Tight Connector	307-308
84XX	Connector, Quick Twist	309-310
84XX	Fitting, Liquid Tight	311
84XX	Locknut, Fittings	310-311
85-	1/4 Turn Fastener, Large	189-192
850-	Clamps, Pow'r Gear	342
8511-	Cord Clip, Adhesive Backed	299
85XX	Connector, Quick Twist	309-310
85XXXX	Gas Springs	239
86XX	Liquid Tight Connector	307-308
90-	Vise Action Latch Accessories	38, 39, 43, 47
90-	Installation Tool	189
902XXX	Grab Handle, Composite	273
90XX	Push Rivet, Nylon	222
91-	Under Center Latch	135
91XX	Liquid Tight Connector	308
92-	"T" and "L" Handle Latches	64-67
93-	Push to Close Latch	88-89
96-	Lift-off Hinge	161-164
97-	Over Center Latch	139-141
A1-	Over Center Latch - Adjustable	137
A2-	Over Center Lever Latch	55
A3-	Slide Latch	90-91
A7-	Over Center Lever Latch	55
AC-	AC Cable Assembly	13
AC-30	Multi Point Actuator Push Button	107
AC-40	Single or Multi Point Actuator	108
AC-60	Single Point Actuator T-Handle	110
AC-70	Single Point Actuator Paddle	110
AC-75	Single Point Actuator Paddle	109
AC-80	Single Point Actuator Push-Button	111
AR2-	Drawer Slide, 3/4 ext.	252
AR3-	Drawer Slide, Full ext.	252
AV-	Monitor Mounts	30-37
B4-	Textured Pull	268
B8-	Grab Handle, Composite	274
BCT-, BCTS-	Double Ball Catch	130
BH-	Butt Hinge	157
BLL-	Spring Loaded Bar Latch	84
BLS-	Spring Loaded Barrel Bolt	85
BS-	Ball Stud	244-245
BSR-	Ball Stud, Rivetable	245
C2-	Lever Latch	53
C3-	Grabber Catch	126-127

INDEX

Product Class	Description	Pages
C3301-	Drawer Slide, Full ext.	256
C3601-	Drawer Slide, Full ext.	259
C3832-	Drawer Slide, Full ext.	255
C5-	Sealed Lever Latch	54
C6-	Door Positioning Hinge	168
C7-	Soft Latch	142
C882-	Roller Catch	125
C9301-	Drawer Slide, Full ext.	260
CM-	Cam Locks	152-155
D1-	1/4 turn Fastener, Dart	193-194
D7-	1/4 Turn Fastener, Pilot	195-196
D7-	1/4 Turn Fastener, Arrow	197
DL-	Oval Handle, Robust	271
DS-	Oval Handle, Standard	271
E2-	Hidden Panel Latch	128-129
E3-	Vise Action Compression Latch	38-47
E3-	Key, Latch Driver	38, 39, 41, 43, 46, 76, 78
E4-	Touch Latch	113
E5-	1/4 Turn "Quad" Cam Latch	60, 75-79
E6-	Friction Hinge	170-171
E8-	Over Center Latch - Adjustable	134
EA-A	Electronic Access Controller	28-29
EA-KC	Electronic Access Keypad Membrane	22-23
EA-P	Electronic Access Proximity Reader	18-21
EA-R	Electronic Access Key Fob	24-27
EC-	Oval Handle, Low Profile	271
ECH-	Oval Handle, Tall Profile	272
EK-	Oval Handle, Robust	272
EM-	E-Keeper Electronic Latch	16-17
ES01/G	90 degree Concealed Hinge	167
ES-	Flush Pull	267
ESR-1	Drawer Slide, 3/4 ext.	257
ESR-10	Drawer Slide, Full ext.	261
ESR-3813	Drawer Slide, Full ext.	253
ESR-4518	Drawer Slide, Full ext.	254
ESR-5	Drawer Slide, 3/4 ext.	261
ESR-6	Drawer Slide, Full ext.	258
ESR-7	Locking Drawer, Full ext.	262
ESR-8	Locking Drawer Slide	262
F5-	Captive Screw Design Guide	216
F6-	Door Removal Hinge	165
F7-	Flexible Draw Latch	143
G6-	Positioning Advantage Hinge	168
H3-	Swinghandle, Linear Actuator	60-61
H3-EM	Electronic Locking Swinghandle	14-15
H945-, H946-	Chest Handle	276
HA945-	Chest Handle	276
HH-	Flush Pull	267
HP-	Knob Style Cam Latch	74
I-	Concealed Hinge	166
IS-	Round Magnetic Catch	118
JM-	Sealed Magnetic Catch	119
K-	Knuckle Catch	122
K2-	Rotary Action Latch	148
K3-	Rotary Action Latch	148-149
K4-	Latch Keeper	135, 148
K4 -	Rotary Action Latch	150
K5-	Rotary Action Latch	151
KC-	Oval Handle, Standard	272

Product Class	Description	Pages
KCA-	Adjustable Lever	284-285
KCB-	Bar Knob	279
KCK-	Knurled Knob	283
KCL-	Lobe Knob	280-282
KR-	Slide Bolt	83
KSB-	Ball Knob	286
KST-	Shaft End Handle Series	287
L-	Positive Stop Lid Stay	251
LB-	Positive Stop Lid Stay - Heavy Duty	251
LG-	Detent Pin, Single Acting	209
LH-	Lift-off Butt Hinge	158
LH-	Detent Pin, Double Acting	210
LP-	Composite Cam Latch	74
LR-	Detent Pin	211
LW-	Detent Pin, Receptacle	212
M1-	Flush Pull Latch	94-95
M1-20	Round, Flush Lift and Turn Latch	49
M1-25	Round, Flush Lift and Turn Latch	49
M1-2A	Pop-out Knob Latch	87
M32XX	Fitting, Liquid Tight	311
M43XX	Fitting, Liquid Tight	311-312
M44XX	Fitting, Liquid Tight	312
M45XX	Fitting, Liquid Tight	311
M85XX	Fitting, Liquid Tight	312
MBH-	Marine Butt Hinge	175
MC-	Touch Latch	113
MC-	Ultra-Thin Magnetic Catch	118
MC-	Adjustable Magnetic Catch	119
MC-	Magnetic Catch	120
MCH-	Heavy Duty Magnetic Catch	121
MH-	Leveling Mount, Stainless	288
MKPS-	Leveling Mount, Stainless	288
MKRS-	Leveling Mount, Stainless	288
ML-	Magnetic Touch Latch	114-115
MP-	Point Latch	86
MP-	Beetle Latch	96
MRS-	Guide Black and Rail	252
MSH-	Marine Strap Hinge	176
MT-	Snappy Catch	123
N2-	Lift and Turn Compression Latch	48
N7-	Captive Nut Design Guide	216
NY-	Rivet, Nylatch	225-226
NY-	1/4 Fastener, Nylatch	197
P1-	Flush Pull	264
P2-	Flush Pull	264-265
P8-	Wire Pull, Aluminum	269
P9-	Folding Pull	270
PK-	Keys	91
PM-	Magnetic Touch Latch	115
R-	Multi-Link Concealed Hinge	167
R2-	Roto Lock® Butt-Joint Fastener	147
R4-	Compass Latch	97
R4-0-	Retainer Clip	111
R4-EM	Electronic Access Rotary Latch	6 - 13
R4-10	Light-duty Rotary Latch	99-102
R4-20	Medium-duty Rotary Latch	105
R4-30	Heavy-duty, Single Rotor Latch	103-104
R4-50	Heavy-duty Double Rotor Latch	106

Product Class	Description	Pages
R4-9	Striker Bolt	8, 102, 104, 105, 106
R5-	Dual Lock® Butt-Joint Panel Fastener	147
RH-	Lift-off Butt Hinge	158
RK-	Concealed Hinge	166
RS-	Multi-Link Concealed Hinge	167
SBL-	Slide Bolt	83
SCC-	Spring Loaded Draw Latch	136
SLP-	Plunger, Spring Loaded	207-208
SMC-	Electronic Magnetic Catch	121
SP-	Striker, Magnetic Catch	120
ST-	Constant Torque Friction Hinge	172-173
STF-	Enclosed Over Center Latch	133
T9-	Detent Catch	123
T9-	Roller Catch	125
TSS3-	Floor Mounted Slide	263
V2-	Over Center Latch	138
V7-	Over Center Latch	131-132
W12-	Striker, Magnetic Catch	118
W4-	Striker, Magnetic Catch	118
YC-	Stainless Steel Detent Hinge	169
YJ-	Composite Detent Hinge	169
YN-	Ultra-Thin Magnetic Catch	118
Z4-	Striker, Magnetic Catch	118

Easy to Use Product Configurators
www.clancey.com

Design Guide Index	Pages
Cam Lock Design	152
Custom Hinge Capabilities Guide	156
Gas Spring Design Guide	236-237
Knob Design Guide	278
Lanyard Design Guide	212
Slic Pin Design Guide	213
Drive Rivet Design Guide	217
Quarter Turn Fastener Design Guide	177
Fast Lead Screw Design Guide	198

Request Pricing or Samples 24/7/365
www.clancey.com

Series Index for Knobs Section

Series Number	Description	Pages
-00XX-	Ball Knob	286-287
-01XX-	Ball Knob	286
-06XX-	Shaft End Handle	287
-07XX-	Shaft End Handle	287
-20XX-	Hurricane Bar Knob	279
-27XX-	Domed Knurled Knob	283
-28XX-	Four Arm, "Husky" Lobe Knob	280-281
-29XX-	Star Lobe Knob	281
-30XX-	Hurricane Bar & Three Arm Knob	279-280
-40XX-	Star Lobe Knob	281
-42XX-	Octagonal Lobe Knob	282
-43XX-	Fluted Lobe Knob	282
-49XX-	Ball Knob	286
-50XX-	Shaft End Handle	287
-55XX-	Shaft End Handle	287
-70XX-	Soft Surface Lobe Knob	281
-DCXX-	Adjustable Lever, Die Cast	285
-DSXX-	Adjustable Lever, Die Cast - SS	285
-EGXX-	Adjustable Lever, Ergostyle	284
-EHXX-	Adjustable Lever, Hex Head	284
-EPXX-	Adjustable Lever, Push Button	284
-ESXX-	Adjustable Lever, Push Button SS	284
-EXXX-	Knobs, various styles	279, 281-283, 287
-G0XX-	Shaft End Handle	287
-HDXX-	Adjustable Lever, Heavy Duty	285
-HSXX-	Adjustable Lever, Heavy Duty SS	285
-MAXX-	Metal Four Arm Lobe Knob	280
-MBXX-	Metal Ball Knob	286
-SOXX-	Shaft End Handle	287
-SSXX-	Adjustable Lever, Stainless Steel	285

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.

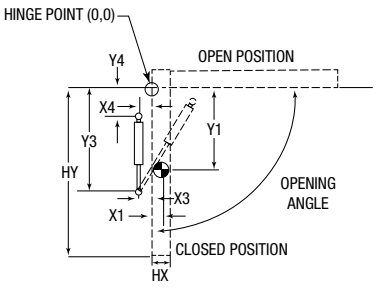
APPLICATION DEVELOPMENT

Section 1 - Customer and Project Information

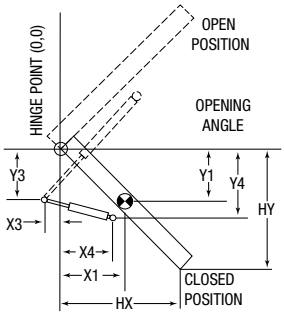
Company Name:	Project Name/Number:
Engineering Contact:	Application Description:
E-mail Address:	Estimated Number of Units Annually:
Phone:	Start of Production Date:

Section 2 - Application Type (Select One of Four Options)

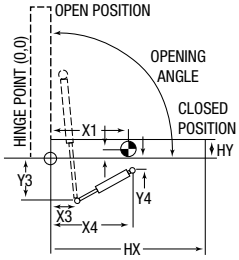
❑ **VERTICAL DOOR**



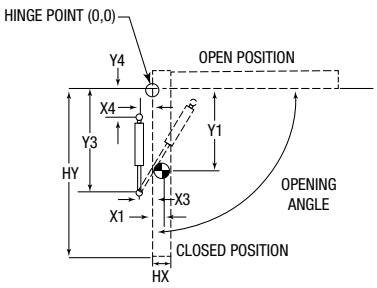
❑ **OFFSET DOOR**



❑ **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

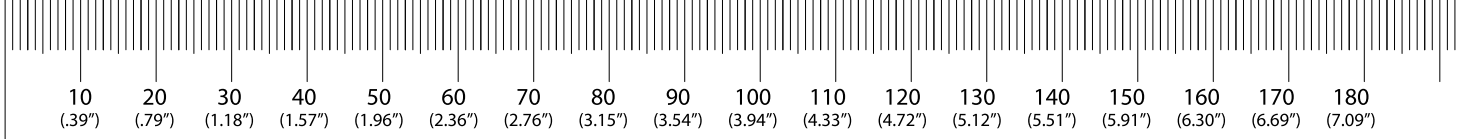
Preferred Mounting Location (optional):

Fixed Point: X3 = _____ Y3 = _____

Moving Point: X4 = _____ Y4 = _____

Desired Handle Effort: To Open = _____ To Close = _____

Desired Number of Gas Springs Per Door: _____



www.clancey.com
800-747-7405 ✆

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

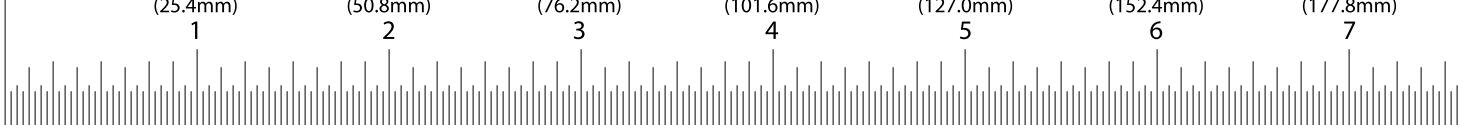
Temperature Measurements

Fahrenheit	(F - 32)	x .555	=	Celsius
Celsius	(1.80 x C) + 32		=	Fahrenheit

All tools and information are for reference only.

www.clancey.com
800-747-7405 ✆

Inch Ruler



clancey
DESIGN DISTRIBUTOR

OUR PRODUCT OFFERING

Offering distinctive human "Touch Points" that enhance the Quality of your product.


ELECTRONIC ACCESS


DRAWER SLIDES


MONITOR MOUNTS


HANDLES


LATCHES


KNOBS


LOCKS


LEVELING MOUNTS


HINGES


WIRE MANAGEMENT


QUICK ACCESS FASTENERS


WORK HOLDING SOLUTIONS


PANEL FASTENERS


CLAMPS


DOOR ASSISTS


HYDRAULIC HOSE & ADAPTERS

www.clancey.com

(p) 800-747-7405
(f) 800-273-4508
(e) info@clancey.com