

CAM LATCHES, SWINGHANDLES & PANEL FASTENERS

Fixed Grip

Pages 116 - 133



SOUTHCO[®] fixed grip cam latches offer the most flexible and versatile latch solution thanks to their modular design. Their 90° cam rotation provides quick, easy actuation that is also readily adaptable to multi-point latching. Combining three basic components in material, finish or geometry make them suitable for a wide range of applications.

- Cost effective, easy to configure and install
- Numerous hand, key and tool actuation styles
- Wide material choice
- Provide defined grip
- Sealed versions to meet NEMA / IP standards



Adjustable Grip

Pages 134 - 143



Multiple models of *SOUTHCO*[®] adjustable grip cam latches use threaded cams, jam nuts, or set screws to provide adjustment over a generous grip range. Their 90° cam rotation provides quick, easy actuation that is also readily adaptable to multi-point latching. This enables end-users to compensate for material or fabrication variances in order to satisfy design specifications. It also provides the opportunity for field adjustment of grip dimensions to compensate for wear or misalignment.

- User controls grip adjustment
- One latch fits many applications, minimizing latch inventory requirements
- Wide range of mounting and actuation styles



Get the convenience of a swinghandle latch combined with exceptional versatility for single or multi-point latching. Many grip and security options are available. Durable latches are suitable for enclosures of all sizes.

Multi-point latching rods are available in rod-roller and standard tapered-end style. DIN lock cores and standard *SOUTHCO*® PK lock cores offer multiple key code options with hundreds of standard key codes and custom key code options.

For Swinghandle assemblies suitable for multi-point latching applications, see pages 192-196.

Swinghandle for Single-Point Latching

Pages 144 - 145

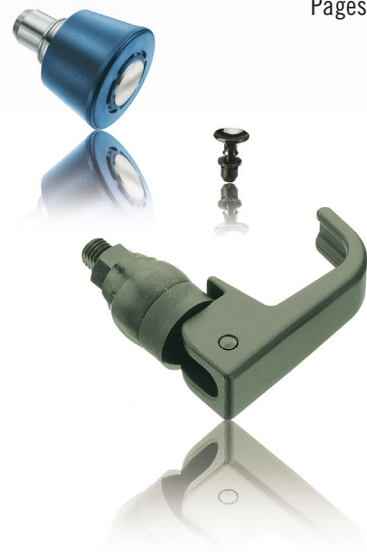


Southco offers several fastener designs to assist in panel fastening and positioning applications

- Plungers provide quick installation and removal of components and can serve as a quick-release retractable hinge for removable doors
- Swell latches allow for quick and easy access, with convenient single-hole mounting, plus latch and handle in one assembly
- TL slide latches resist opening under vibration and shock loads

Panel Fasteners

Pages 146 - 155





Cam Latches and Swinghandles

Selection guide

Dimensions in millimeters (inch) unless otherwise stated

Use this selection guide to choose the right cam latch for your application



Key-Locking Available



Key-Choice System



NEMA / IP Rated



Multi-Point Latching



Padlockable



Stainless Steel



Vibration Resistant










Fire Resistant

	Product Class	MATERIAL			INSTALLATION			
		Stainless Steel	Zinc and Steel	Plastic	Round Hole Install	Flush / Low Profile	Maximum Door Thickness	
FIXED GRIP PAGES 116-133	 E5	✓	✓	✓		✓	14 (.55)	
	 E5		✓		✓	✓	3.2 (.13)	
ADJUSTABLE GRIP PAGES 134-143	 92		✓		✓		3 (.12) With screws supplied	
	 68		✓		✓		25 (1.00) Medium size	
	 01		✓			✓	9.5 (.38)	
	 24		✓			✓	7.9 (.31)	
	 69			✓			12.7 (.50)	
	 61			✓	✓	✓	50 (1.97)	
	SWINGHANDLES PAGES 144-145	 H3-50		✓			✓	3.2 (.13)
		 H3-60		✓			✓	3.2 (.13)



Dimensions in millimeters (inch) unless otherwise stated

		PERFORMANCE			ACCESS STYLE				
Fire EN 45545 	NEMA / IP Rated 	Vibration Resistant 	Maximum Static Load	Grip Range	Key-Locking 	Tool Operable	Key-Choice System 	Padlockable 	Multi-Point Capable 
✓	✓	✓	300 - 670 N (67 - 150 lbf)	2 - 44 (.08 - 1.73)	✓	✓	✓	✓	✓
			330 N (74 lbf)	22.7 - 36.7 (.89 - 1.44)	✓		✓		✓
			200 - 400 N (45 - 90 lbf)	16 - 44.5 (.63 - 1.75)	✓				✓
			890 - 1300 N (200 - 300 lbf)	0 - 57 (0 - 2.25)					✓
			160 - 220 N (35-50 lbf)	0 - 28.6 (0 - 1.13)	✓				✓
			445 - 2670 N (100 - 600 lbf)	17.5 - 62 (.69 - 2.44)	✓				✓
		✓	44 - 330 N (10 - 75 lbf)	3.2 - 61.9 (.13 - 2.44)					
			110 N (25 lbf)	4 - 70 (.16 - 2.75)		✓			
	✓		250 N (56 lbf)	10.3 - 40.3 (.41 - 1.59)	✓	✓		✓	✓
	✓		250 N (56 lbf)	10.3 - 40.3 (.41 - 1.59)	✓	✓		✓	✓



E5 Cam Latches

Overview

Modularity and simplicity in action

The *SOUTHCO*® E5 cam latch is a highly modular and easy to configure solution, suitable for a wide range of applications. By changing any of the three basic components (access style driver, latch body or cam) in either geometry or material, the E5 can be easily adjusted to suit most applications.

Product features

- Cost effective, easy to design and install
 - Multiple material and access options to suit multiple needs
 - Suitable to meet NEMA 4 / IP65 sealing standards
 - Corrosion-resistant materials available
 - Highly modular and configurable
- Match material and finish options for style and functionality requirements

A variety of materials and finishes to complement your application.

Die-cast zinc latch bodies standard finishes:



Chrome plated



Black powder coated

Corrosion resistant materials available



316
Stainless steel



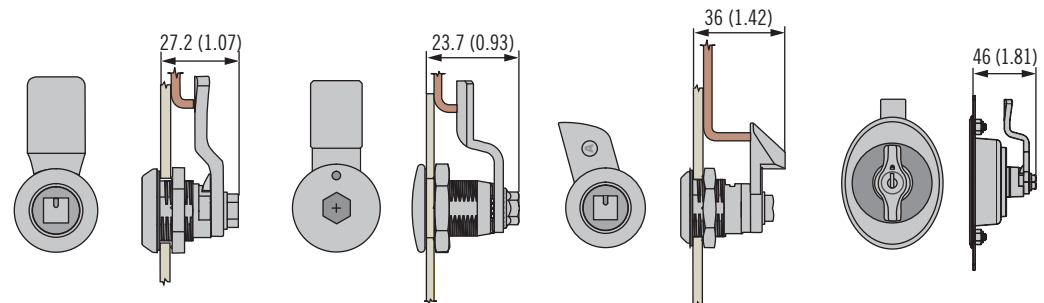
Glass-filled
nylon, black



304
Stainless steel

➤ Select one of these four styles to fit your access requirements

There are four basic E5 styles to meet specific door configuration and mounting requirements in terms of design, depth, surface protrusion and operation style.



E5 Standard

Industry standard, highly modular and configurable options in a wide choice of materials, finishes and access styles. (See page 118)

Dimensions in millimeters (inch) unless otherwise stated

E5 Low Profile

Stylish, low profile design. Tool and hand operated access styles in zinc alloy chrome plated or black powder coated. (See page 120)

E5 Push-to-Close

Standard E5 with the added functionality of a spring-loaded cam or actuator for single or multi-point operation. Provides quicker turn-to-open, push-to-close action. (See page 128)

E5 Flush Cup Wing Knob

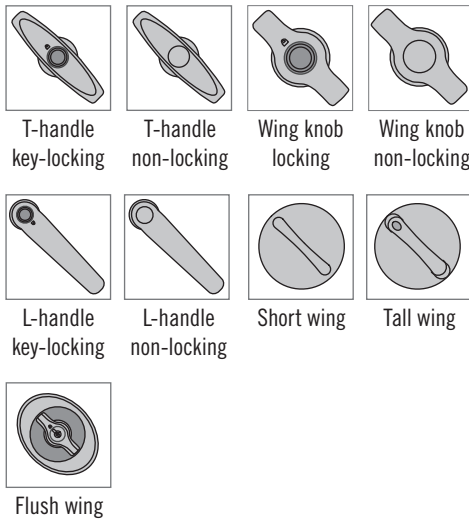
Stylish oval cup design. Provides a clean, flush outer surface. Ideal for multi-point actuation of large doors in aesthetically pleasing applications. (See page 122)



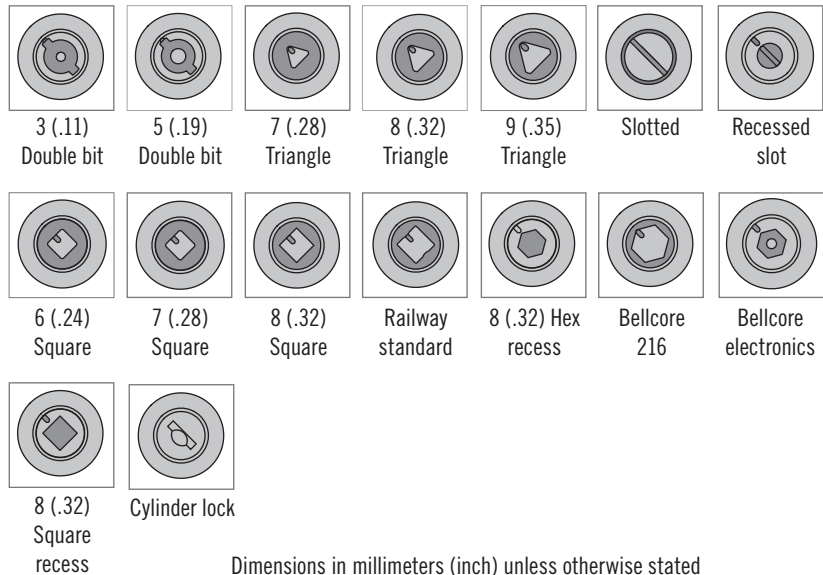
➤ Choose from a wide range of operating styles to fit application and industry requirements.

- Convenient hand-operated wing knob, T and L-handle styles for easy hand access
- Tool operated for restricted access, flush-mount or low-profile clearances, and industry-specific standards
- Key operated for added security

Hand operable



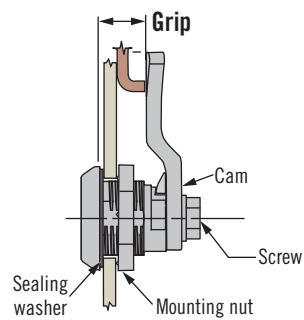
Tool / key operable



Dimensions in millimeters (inch) unless otherwise stated

➤ Determine your grip options for a perfect fit

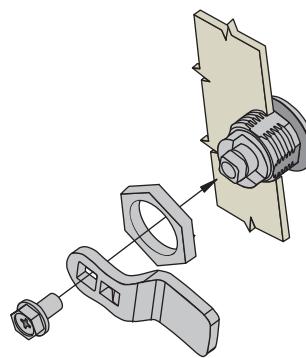
Total grip includes the dimensions of all elements in-between the mounting surface of the latch and the latch's contact surface on the frame - including door thickness, compressed seals and gaskets, accessories, frame offset, etc.



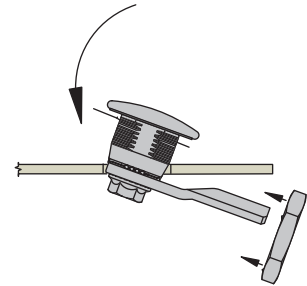
Selecting the right cam for the E5 is easy once the total grip is known. Southco provides a wide selection of standard cams in many grip increments, and special ones like hook and push-to-close cams. Standard cams provide vibration resistance and grip variation tolerance.

Installation

Some *SOUTHCO*® E5 latches are shipped latch and cam separately and some completely pre-assembled. See product pages for details.



E5 Standard
Latch and cam shipped separately.



E5 Low Profile
Latch and cam shipped pre-assembled.





E5 Cam Latch

Stainless steel · Tool operated · Fixed grip

- Single hole install
- Latched / unlatched indicator
- EN 45545-3 E60 Compliant

Material and Finish

Stainless steel, 304 or 316 grade

Performance Details

Maximum static load:

304 Stainless steel 550 N (124 lbf)

316 Stainless steel 670 N (150 lbf)

Sealing Notes

NEMA 4 / IP65 achieved using gasket supplied

Installation Notes

Mounting nut:

Maximum tightening torque:

20 N·m (177 in·lbf)

Screw Maximum tightening torque

10 N·m (90 in·lbf)

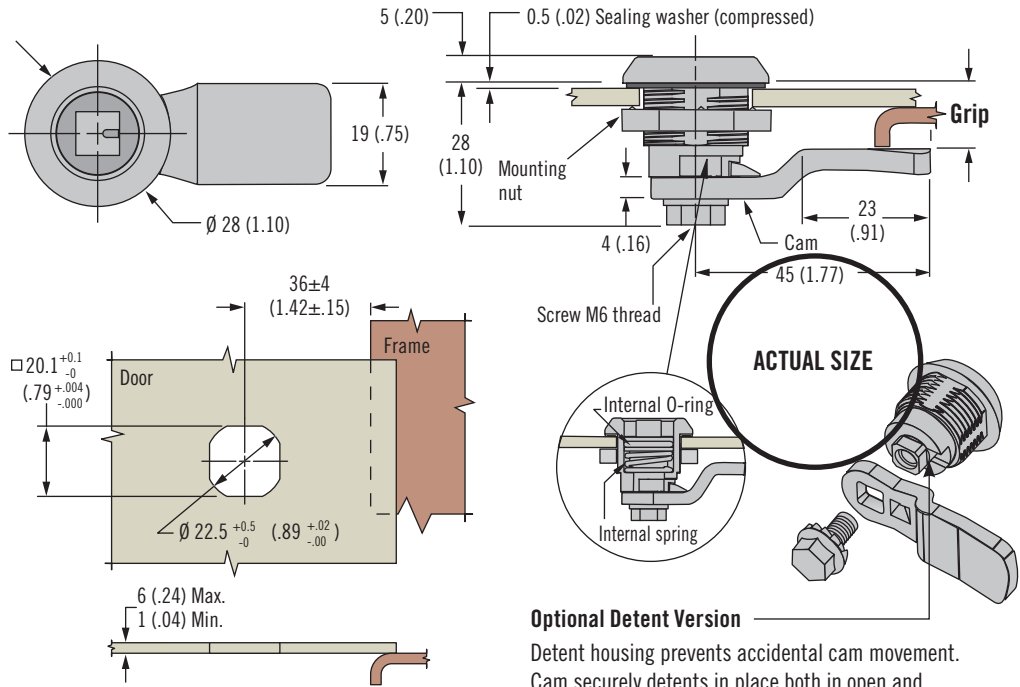
Keys and Accessories

See page 130

Part Number Selection

See table

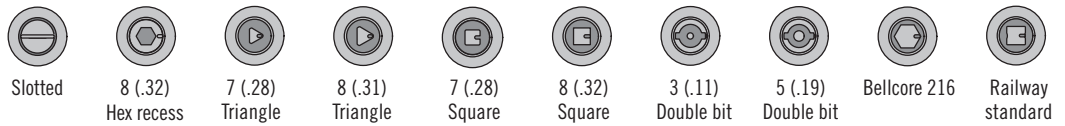
Order latch and cam separately



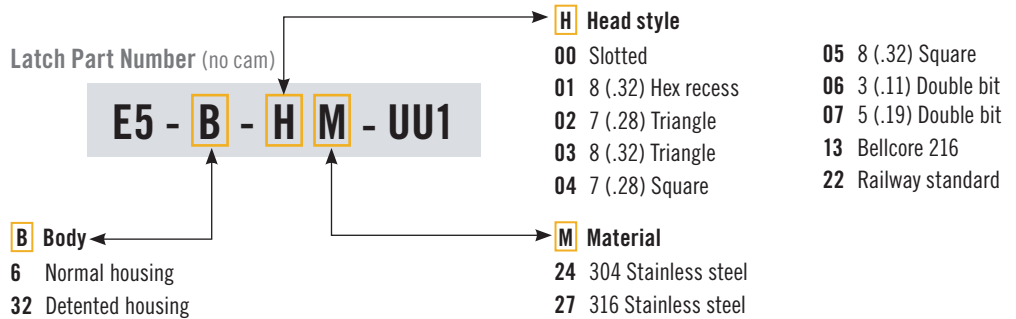
Optional Detent Version

Detent housing prevents accidental cam movement. Cam securely detents in place both in open and closed positions.

H Head Styles



Dimensions in millimeters (inch) unless otherwise stated



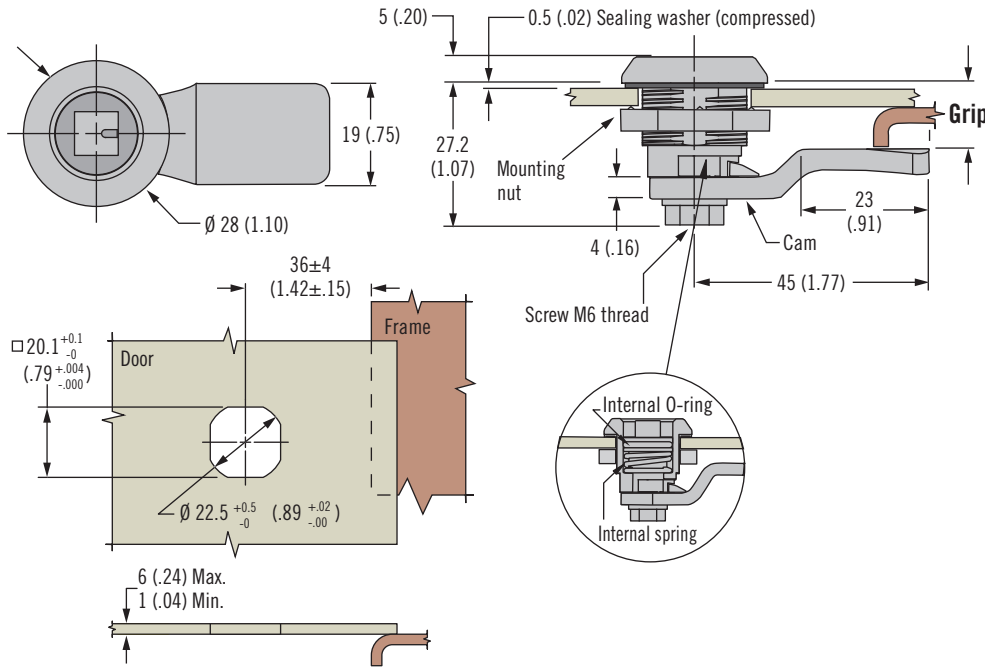
Cam Part Number Table (order separately from latch)

Grip +2(.08) - 0 (.00)	Part Number		Grip +2(.08) - 0 (.00)	Part Number		Grip +2(.08) - 0 (.00)	Part Number		Grip +2(.08) - 0 (.00)	Part Number	
	304 Stainless steel	316 Stainless steel		304 Stainless steel	316 Stainless steel		304 Stainless steel	316 Stainless steel		304 Stainless steel	316 Stainless steel
4 (.16)	E5-8003	E5-9003	14 (.55)	E5-8008	E5-9008	24 (.94)	E5-8013	E5-9013	34 (1.34)	E5-8018	E5-9018
6 (.24)	E5-8004	E5-9004	16 (.63)	E5-8009	E5-9009	26 (1.02)	E5-8014	E5-9014	36 (1.42)	E5-8019	E5-9019
8 (.31)	E5-8005	E5-9005	18 (.71)	E5-8010	E5-9010	28 (1.10)	E5-8015	E5-9015	38 (1.50)	E5-8020	E5-9020
10 (.39)	E5-8006	E5-9006	20 (.79)	E5-8011	E5-9011	30 (1.18)	E5-8016	E5-9016	40 (1.57)	E5-8021	E5-9021
12 (.47)	E5-8007	E5-9007	22 (.87)	E5-8012	E5-9012	32 (1.25)	E5-8017	E5-9017	42 (1.65)	E5-8022	E5-9022



E5 Cam Latch

Zinc · Tool operated · Fixed grip



- Single hole install
- Latched / unlatched indicator

Material and Finish

Zinc alloy, powder coated or chrome plated and steel, zinc plated

Performance Details

Maximum static load: 330 N (74 lbf)

Installation Notes

Mounting nut:
Maximum tightening torque:
10 N·m (88 in·lbf)

Screw Maximum tightening torque:
5 N·m (45 in·lbf)

Sealing Notes

NEMA 4 / IP65 achieved using gasket supplied

Keys and Accessories

See page 130

Notes

Suitable for push-to-close action
see page 128

H Head Styles

Slotted	8 (.32) Hex recess	7 (.28) Triangle	8 (.32) Triangle	7 (.28) Square	8 (.32) Square	3 (.11) Double bit	5 (.19) Double bit	8 (.32) Square recess	Bellcore 216
Bellcore electronics	Recessed slot (tamper resistant)	Railway standard	Dimensions in millimeters (inch) unless otherwise stated						

Latch Part Number (no cam)

E5 - 6 - H F - UU1

H Head style

- | | |
|------------------------------|--|
| 00 Slotted | 07 5 (.19) Double bit |
| 01 8 (.32) Hex recess | 08 8 (.32) Square recess |
| 02 7 (.28) Triangle | 13 Bellcore 216 |
| 03 8 (.32) Triangle | 19 Bellcore electronics |
| 04 7 (.28) Square | 21 Recessed slot (tamper resistant) |
| 05 8 (.32) Square | 22 Railway standard |
| 06 3 (.11) Double bit | |

F Finish

- 2 Bright chrome
- 5 Black powder coated

Part Number Selection

See table

Order latch and cam separately

Cam Part Number Table (order separately from latch)							
Grip +2(.08) -0(.00)	Part Number	Grip +2(.08) -0(.00)	Part Number	Grip +2(.08) -0(.00)	Part Number	Grip +2(.08) -0(.00)	Part Number
4 (.16)	E5-6003	14 (.55)	E5-6008	24 (.94)	E5-6013	34 (1.34)	E5-6018
6 (.24)	E5-6004	16 (.63)	E5-6009	26 (1.02)	E5-6014	36 (1.42)	E5-6019
8 (.31)	E5-6005	18 (.71)	E5-6010	28 (1.10)	E5-6015	38 (1.50)	E5-6020
10 (.39)	E5-6006	20 (.79)	E5-6011	30 (1.18)	E5-6016	40 (1.57)	E5-6021
12 (.47)	E5-6007	22 (.87)	E5-6012	32 (1.25)	E5-6017	42 (1.65)	E5-6022





E5 Cam Latch Low Profile

Zinc · Tool or hand operated · Fixed grip

- Single hole install
- Latched / unlatched indicator
- Shipped fully assembled
- EN 45545-3 E60 Compliant

Material and Finish

Zinc alloy, powder coated or chrome plated and steel, zinc plated

Performance Details

Maximum static load: 330 N (74 lbf)

Installation Notes

Mounting nut
Maximum tightening torque:
10 N·m (88 in·lbf)

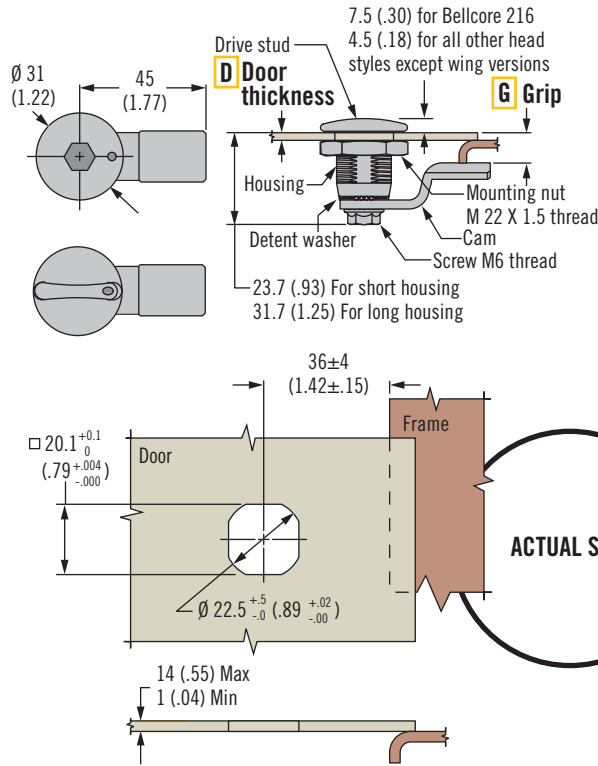
Keys and Accessories

See page 130

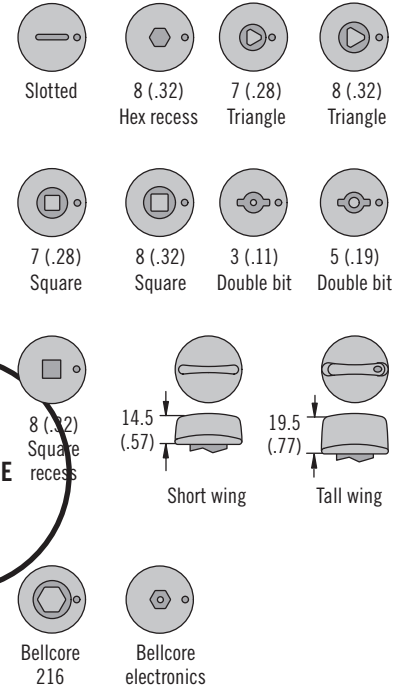
Part Number Selection

See table

Latch is shipped fully assembled
For door thicknesses
1 - 6 (.039 - .236) grip must
exceed door thickness by 4 (.157)
for assembled installation
When sealing option is selected,
add 0.4 (.02) to grip calculation
to accommodate sealing washer



H Head Styles



H Head style

- 00 Slotted
- 01 8 (.32) Hex recess
- 02 7 (.28) Triangle
- 03 8 (.32) Triangle
- 04 7 (.28) Square
- 05 8 (.32) Square
- 06 3 (.11) Double bit
- 07 5 (.19) Double bit
- 08 8 (.32) Square recess
- 11 Short wing
- 12 Tall wing
- 13 Bellcore 216
- 19 Bellcore Electronics

F Finish

- 1 Textured chrome
- 5 Black powder coated

S Sealing option

- 0 No o-ring or external seal
- 1 O-ring and external seal to meet NEMA 4/IP65 standards

E5 - D - H F - G S

- D Door thickness range**
- 1 1 - 6 (.039 - .236) (short housing supplied)
 - 2 1 - 14 (.039 - (.551) (long housing supplied)

Dimensions in millimeters (inch) unless otherwise stated

G Grip table											
G	Grip		G	Grip		G	Grip		G	Grip	
	Short housing	Long housing		Short housing	Long housing		Short housing	Long housing		Short housing	Long housing
00	Do not use	6 (.24)	05	8 (.31)	16 (.63)	10	18 (.71)	26 (1.02)	15	28 (1.10)	36 (1.42)
01	Do not use	8 (.31)	06	10 (.39)	18 (.71)	11	20 (.79)	28 (1.10)	16	30 (1.18)	38 (1.50)
02	2 (.08)	10 (.39)	07	12 (.47)	20 (.79)	12	22 (.87)	30 (1.18)	17	32 (1.25)	40 (1.57)
03	4 (.16)	12 (.47)	08	14 (.55)	22 (.87)	13	24 (.94)	32 (1.25)	18	34 (1.34)	42 (1.65)
04	6 (.24)	14 (.55)	09	16 (.63)	24 (.94)	14	26 (1.02)	34 (1.34)	19	36 (1.42)	44 (1.73)

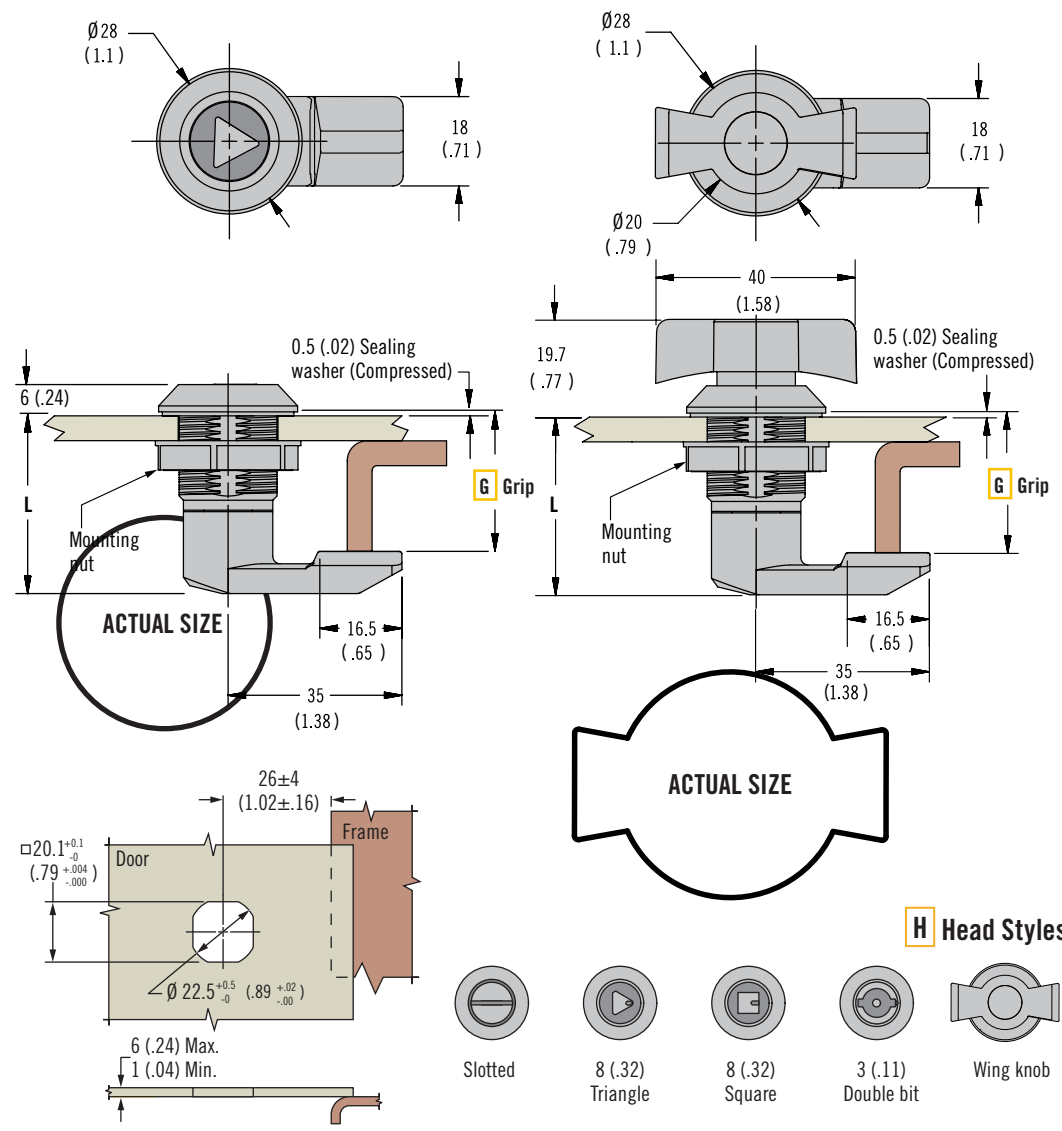
If grip falls between two choices, use the smaller option





E5 Cam Latch

Glass-filled nylon · Tool or hand operated · Fixed grip



Latch Part Number

E5 - 4 - H 3 - G 1

H Head Styles

- 00 Slotted
- 03 8 (.32) Triangle
- 05 8 (.32) Square
- 06 3 (.11) Double bit
- 30 Wing knob

Dimensions in millimeters (inch) unless otherwise stated

G Grip table

Total Grip	G	L	Max. Door Thickness for Assembled Latch	Total Grip	G	L	Max. Door Thickness for Assembled Latch	Total Grip	G	L	Max. Door Thickness for Assembled Latch
16 (.63)	16	30 (1.18)	5 (.20)	24 (.94)	24	38 (1.50)	6 (.24)	30 (1.18)	30	44 (1.73)	6 (.24)
18 (.71)	18	32 (1.26)	5 (.20)	25 (.98)	25	39 (1.54)	6 (.24)	32 (1.26)	32	46 (1.81)	6 (.24)
20 (.79)	20	34 (1.34)	6 (.24)	26 (1.02)	26	40 (1.57)	6 (.24)	34 (1.34)	34	48 (1.89)	6 (.24)
22 (.87)	22	36 (1.42)	6 (.24)	28 (1.10)	28	42 (1.65)	6 (.24)	36 (1.42)	36	50 (1.97)	6 (.24)

- Single hole install
- Corrosion-resistant materials

Material and Finish

Glass-filled nylon and Stainless steel

Performance Details

Average ultimate load:
300 N (68 lbf)

Installation Notes

Mounting nut
Maximum tightening torque:
4.25 N·m (38 in·lbf)

Sealing Notes

NEMA 4 / IP65 achieved using gasket supplied

Keys and Accessories

See page 130

Part Number Selection

See table



E5 Cam Latch

Zinc · Flush cup wing style · Hand operated · Fixed grip

- Low profile
- Multiple key code options

Material and Finish

Zinc alloy, powder coated and steel, zinc plated

Performance Details

Maximum static load: 330 N (74 lbf)

Installation Notes

Mounting nuts 10-24 UNC (supplied) maximum tightening torque: 3 N·m (25 in·lbf)

Screw maximum tightening torque: 10 N·m (90 in·lbf)

Keys

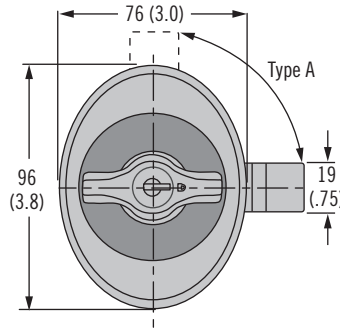
See page 130

Notes

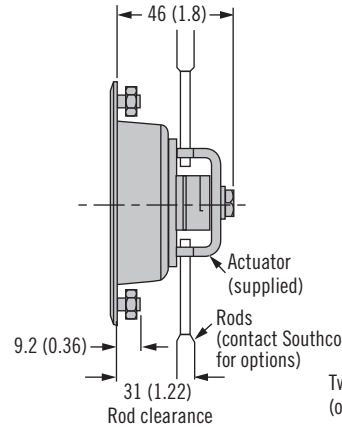
Two point push-to-close action: Internal spring causes return of wing knob and actuator to original latched position when wing knob is released after opening. Ideal for use with cables and rotary latches.

For lock core selection and a complete overview of the *SOUTHCO*® Key-Choice System see page 158

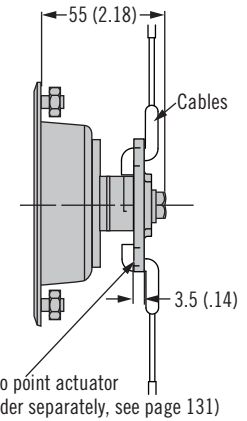
Single Point



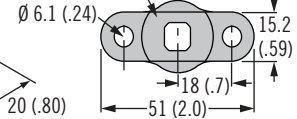
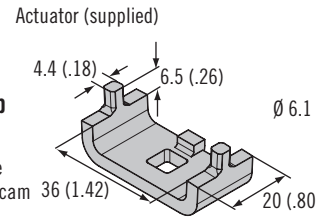
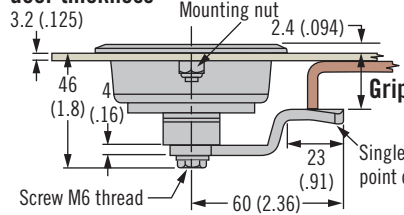
Two Point (for use with rods)



Two Point Push-to-Close Action (spring-loaded)

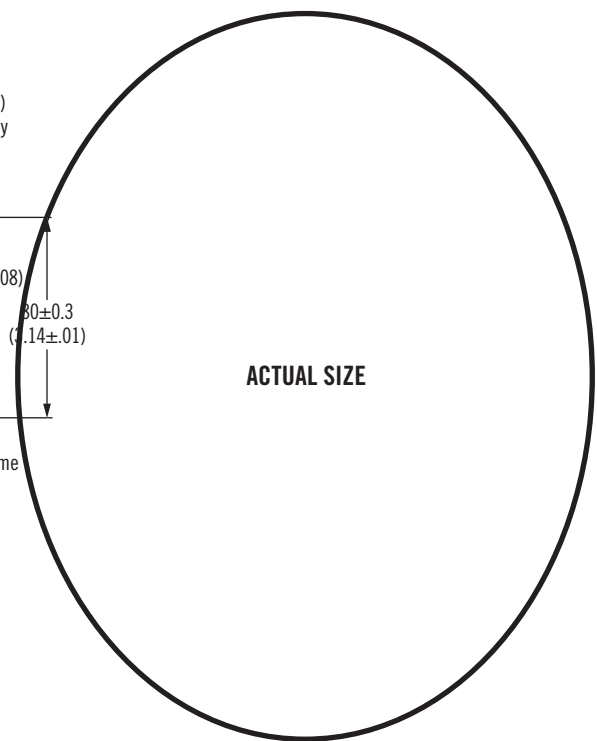
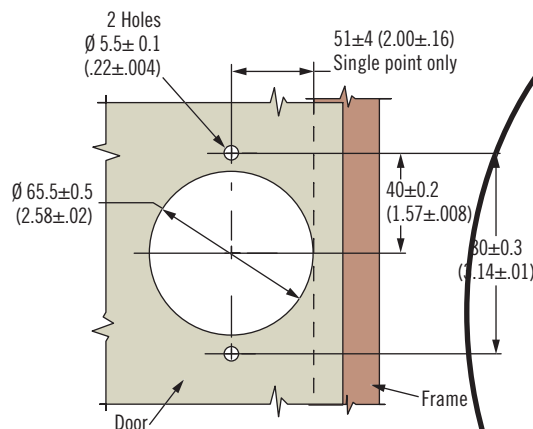


Maximum door thickness



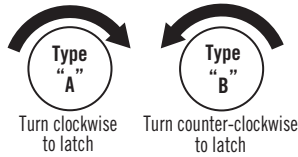
Dimensions in millimeters (inch) unless otherwise stated

Type A (reverse frame for type B)

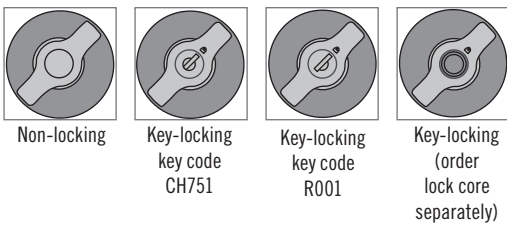




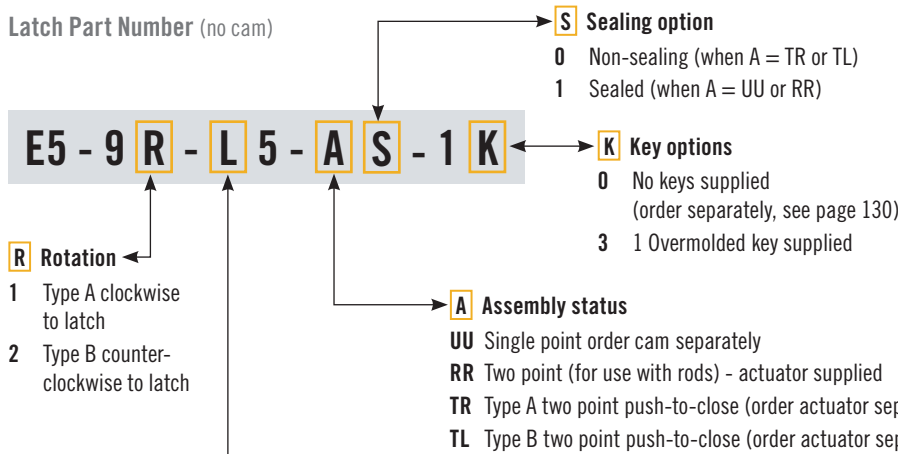
R Rotation



L Lock Styles



Latch Part Number (no cam)



Dimensions in millimeters (inch) unless otherwise stated

Grip	Part Number	Grip	Part Number
22.7 (.89)	E5-6603	30.7 (1.21)	E5-6607
24.7 (.97)	E5-6604	32.7 (1.29)	E5-6608
26.7 (1.05)	E5-6605	34.7 (1.37)	E5-6609
28.7 (1.13)	E5-6606	36.7 (1.44)	E5-6610

If grip falls between two choices, use the smaller option

Part Number Selection

See table

Single point

Order latch and cam separately

Two point (for use with rods)

Order latch only
(two point actuator supplied)

Two point push-to-close action (spring loaded)

Order latch and actuator separately.
Actuator part number A5-91-201-11,
see page 131 for details.

To be used with *SOUTHCO*® R4 rotary series latches and cables
see page 272.





E5 Cam Latch

Zinc · L-handle · Hand operated · Fixed grip

- Single hole install
- Multiple key codes

Material and Finish

Zinc alloy, powder coated or chrome plated and steel, zinc plated

Performance Details

Maximum static load: 330 N (74 lbf)

Sealing Notes

NEMA 4 / IP65 achieved using gasket supplied

Installation Notes

Mounting nut: Maximum tightening torque: 10 N·m (88 in·lbf)
 Screw maximum tightening torque: 10 N·m (90 in·lbf)

Keys

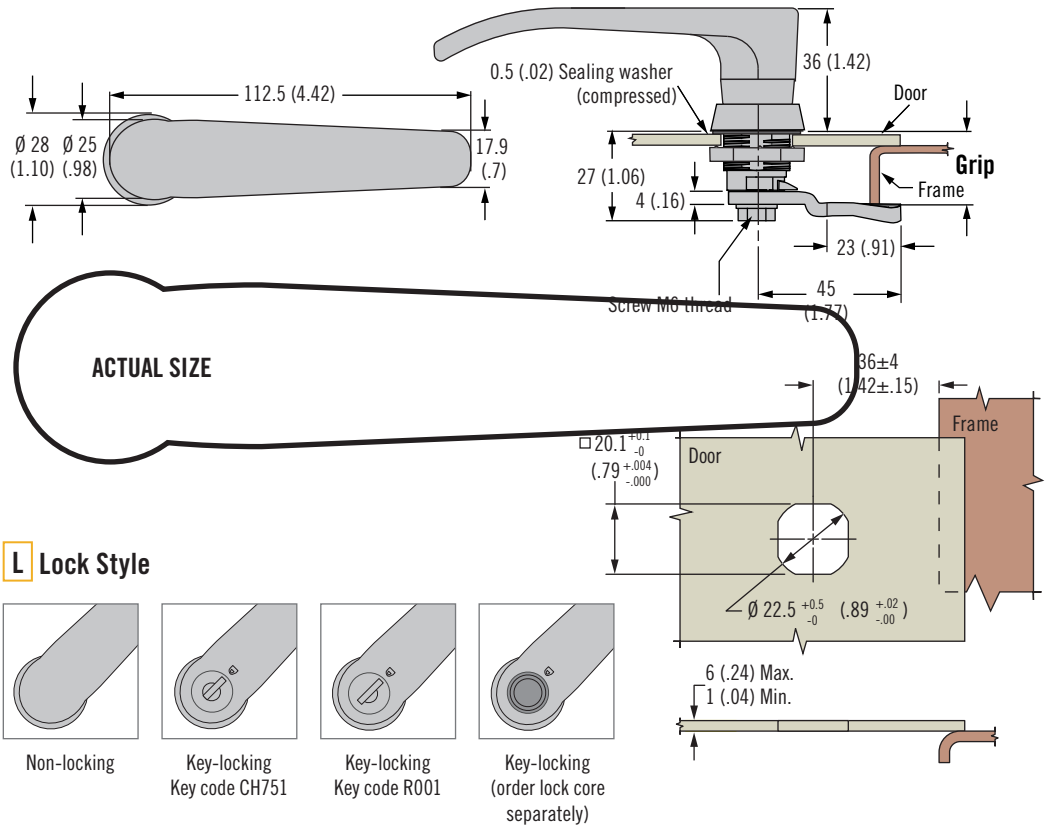
See page 130

Notes

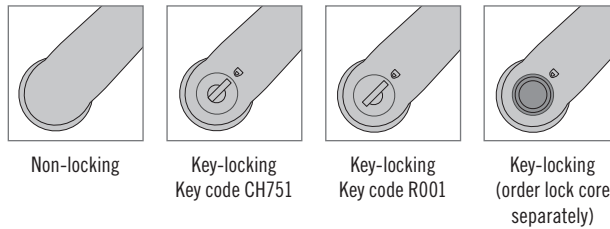
Suitable for push-to-close action see page 128
 For lock core selection and a complete overview of the *SOUTHCO*® Key-Choice System see page 158
 For adjustable grip versions see page 134

Part Number Selection

Order latch and cam separately



L Lock Style



Latch Part Number (no cam)

E5 - 9 - L F - UU1 - 1 K

F Finish
 2 Bright chrome
 5 Black powder coated

L Lock style

- 70 Non-locking (omit last two digits of part number)
- 71 Keyed CH751 (lock core finish matches handle finish)
- 72 Keyed R001 (stainless steel scalp shuttered)
- 73 Without lock core (omit last two digits of part number)

K Key options

- 0 No keys supplied (order separately, see page 130)
- 3 1 Overmolded key supplied

Order lock core separately, see page 158

Dimensions in millimeters (inch) unless otherwise stated

Cam Part Number Table (order separately from latch)							
Grip	Part Number	Grip	Part Number	Grip	Part Number	Grip	Part Number
4 (.16)	E5-6003	14 (.55)	E5-6008	24 (.94)	E5-6013	34 (1.34)	E5-6018
6 (.24)	E5-6004	16 (.63)	E5-6009	26 (1.02)	E5-6014	36 (1.42)	E5-6019
8 (.31)	E5-6005	18 (.71)	E5-6010	28 (1.10)	E5-6015	38 (1.50)	E5-6020
10 (.39)	E5-6006	20 (.79)	E5-6011	30 (1.18)	E5-6016	40 (1.57)	E5-6021
12 (.47)	E5-6007	22 (.87)	E5-6012	32 (1.25)	E5-6017	42 (1.65)	E5-6022

If grip falls between two choices. use the smaller option





E5 Cam Latch

Zinc · T-handle · Hand operated · Fixed grip

- Single hole install
- Multiple key codes

Material and Finish

Zinc alloy, powder coated or chrome plated and steel, zinc plated

Performance Details

Maximum static load: 330 N (74 lbf)

Sealing Notes

NEMA 4 / IP65 achieved using gasket supplied

Installation Notes

Mounting nut:
Maximum tightening torque:
10 N·m (88 in·lbf)

Screw:
Maximum tightening torque:
10 N·m (90 in·lbf)

Keys

See page 130

Notes

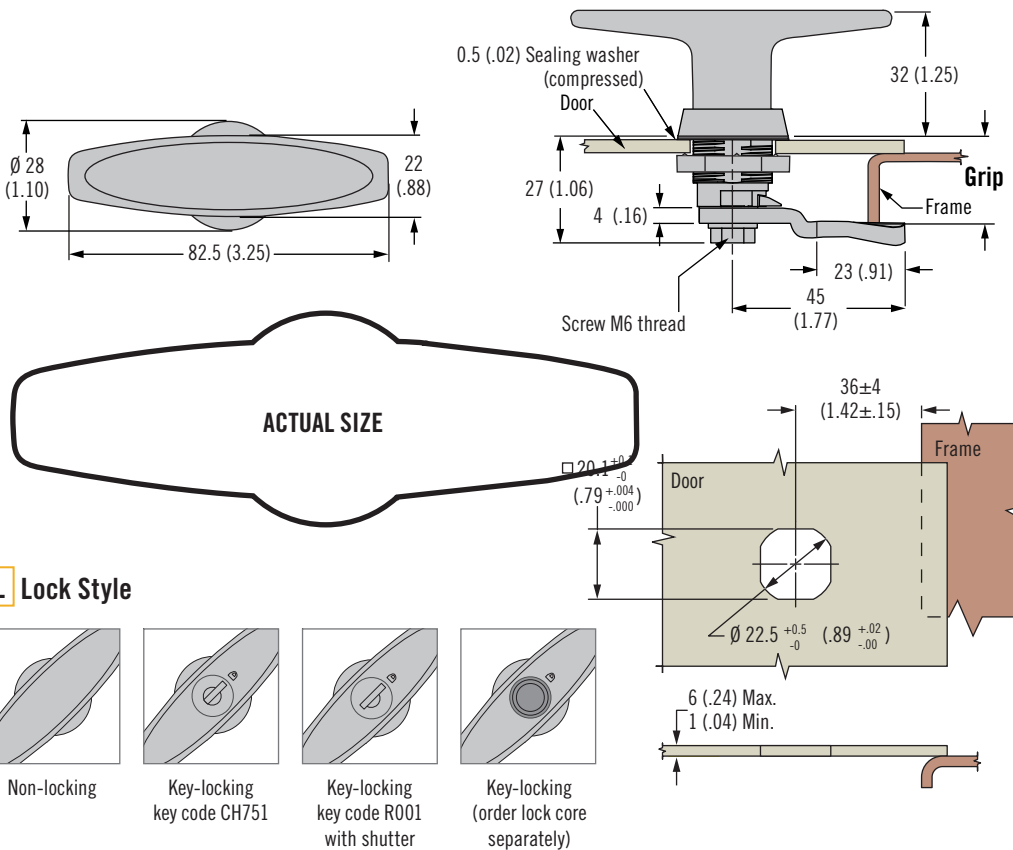
Suitable for push-to-close action see page 128

For adjustable grip versions see page 134

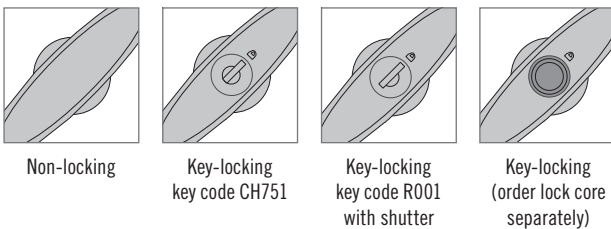
For lock core selection and a complete overview of the *SOUTHCO*® Key-Choice System see page 158

Part Number Selection

Order latch and cam separately



L Lock Style



Latch Part Number (no cam)

E5 - 9 - L F - UU1 - 1 K

- F Finish**
- 2 Bright chrome
 - 5 Black powder coated

- L Lock style**
- 60 Non-locking (omit last two digits of part number)
 - 61 Keyed CH751 (lock core finish matches handle finish)
 - 62 Keyed R001 (stainless steel scalp shuttered)
 - 63 Without lock core (omit last two digits of part number)
Order lock core separately, see page 158

- K Key options**
- 0 No keys supplied (order separately, see page 130)
 - 3 1 Overmolded key supplied

Dimensions in millimeters (inch) unless otherwise stated

Cam Part Number Table (order separately from latch)							
Grip	Part Number	Grip	Part Number	Grip	Part Number	Grip	Part Number
4 (.16)	E5-6003	14 (.55)	E5-6008	24 (.94)	E5-6013	34 (1.34)	E5-6018
6 (.24)	E5-6004	16 (.63)	E5-6009	26 (1.02)	E5-6014	36 (1.42)	E5-6019
8 (.31)	E5-6005	18 (.71)	E5-6010	28 (1.10)	E5-6015	38 (1.50)	E5-6020
10 (.39)	E5-6006	20 (.79)	E5-6011	30 (1.18)	E5-6016	40 (1.57)	E5-6021
12 (.47)	E5-6007	22 (.87)	E5-6012	32 (1.25)	E5-6017	42 (1.65)	E5-6022

If grip falls between two choices, use the smaller option



E5 Cam Latch

Zinc · Wing style · Padlockable wing style · Fixed grip

- Single hole install
- Multiple key codes

Material and Finish

Wing: Zinc alloy, black powder coated and steel, zinc plated

Padlockable wing: Zinc alloy, chrome plated and steel, zinc plated

Padlockable wing: Zinc alloy, chrome plated and steel, zinc plated

Performance Details

Maximum static load: 330 N (74 lbf)

Sealing Notes

Wing style sealed to meet NEMA 4 / IP65 standards

Installation Notes

Mounting nut maximum tightening torque: 10 N·m (88 in·lbf)

Screw Maximum tightening torque: 5 N·m (45 in·lbf)

Keys

See page 130

Notes

Wing style suitable for push-to-close action see page 128

For lock core selection and a complete overview of the *SOUTHCO*® Key-Choice System see page 158

Part Number Selection

Order latch and cam separately

Cam part number see table page 127

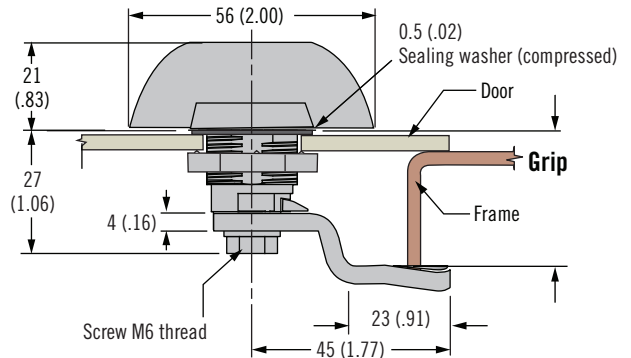
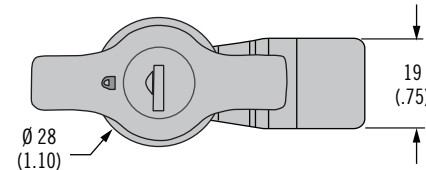
Part Number Selection

See table

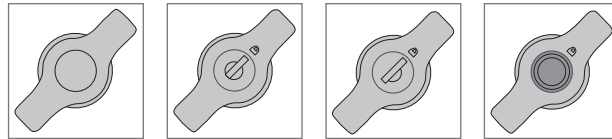
Order latch and cam separately

Cam part number see table page 127

Wing



L Lock Styles

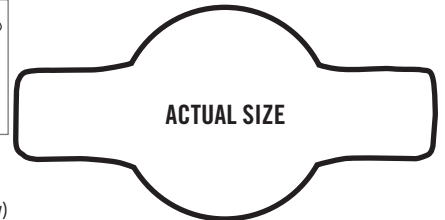


Non-locking

Key-locking key code CH751

Key-locking key code R001 with shutter

Key-locking lock core (order separately)



ACTUAL SIZE

Latch Part Number (no cam)

E5 - 9 - L 5 - UU1 - 1 K

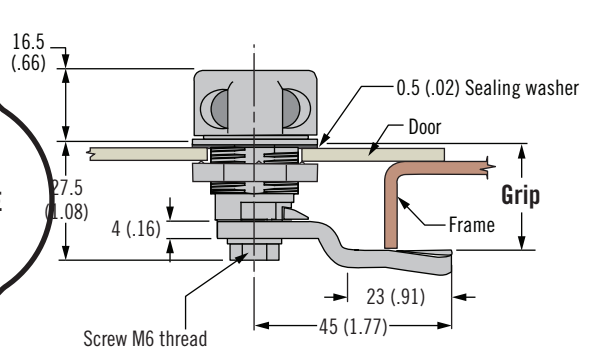
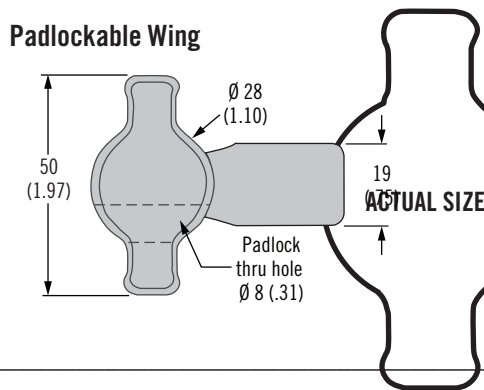
K Key options

- 0 No keys supplied (order separately, see page 130)
- 3 1 Overmolded key supplied

L Lock style

- 30 Non-locking (omit last two digits of part number)
- 31 Key-locking black lock core keyed alike CH751
- 32 Key-locking stainless steel scalp and shuttered lock core keyed alike R001
- 33 Without lock core (omit last two digits of part number)
Order lock core separately, see page 158

Padlockable Wing



Dimensions in millimeters (inch) unless otherwise stated

R Rotation

- 1 Type B counter-clockwise to latch
- 2 Type A clockwise to latch

Latch Part Number (no cam)

E5 - 31 - 5 R 2 - UU0

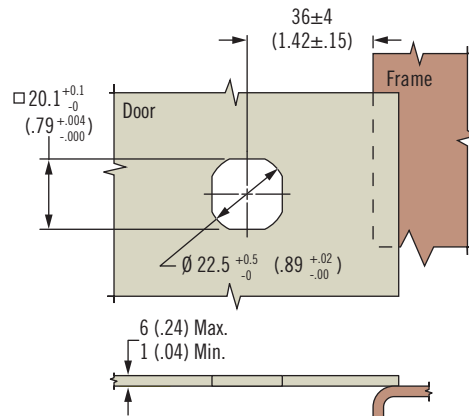
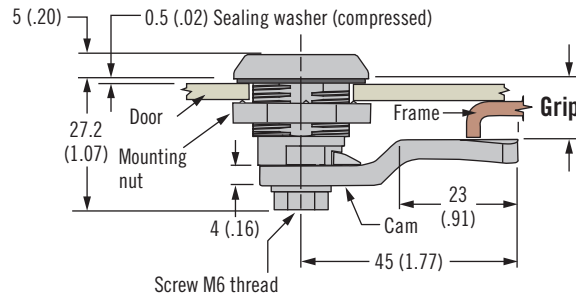
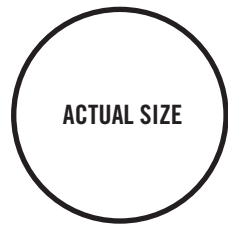
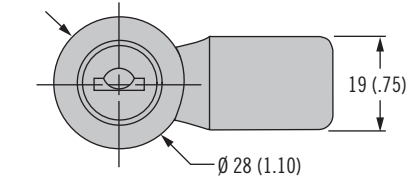


E5 Cam Latch

Zinc · Cylinder lock · Fixed grip



Cylinder Lock



Dimensions in millimeters (inch) unless otherwise stated

F Finish

- 2 Bright chrome
- 5 Black powder coated

K Key options CH751

- 0 No keys supplied (order separately, see page 130)
- 2 2 Flat keys supplied

Latch Part Number
(no cam)

E5 - 5 - 40 F - UU1 - 1 K

- Single hole install
- Latched / unlatched indicator

Material and Finish

Zinc alloy, powder coated and steel, zinc plated
Scalp stainless steel

Performance Details

Maximum static load: 330 N (74 lbf)

Installation Notes

Mounting nut maximum tightening torque: 10 N·m (88 in·lbf)
Screw Maximum tightening torque: 5 N·m (45 in·lbf)

Sealing Notes

NEMA 4 / IP65 achieved using gasket supplied

Keys and Accessories

See page 130

Notes

Suitable for push-to-close action
see page 128

Part Number Selection

See table

Order latch and cam separately

Cam Part Number Table (order separately from latch)

Grip	Part Number	Grip	Part Number	Grip	Part Number	Grip	Part Number
4 (.16)	E5-6003	14 (.55)	E5-6008	24 (.94)	E5-6013	34 (1.34)	E5-6018
6 (.24)	E5-6004	16 (.63)	E5-6009	26 (1.02)	E5-6014	36 (1.42)	E5-6019
8 (.31)	E5-6005	18 (.71)	E5-6010	28 (1.10)	E5-6015	38 (1.50)	E5-6020
10 (.39)	E5-6006	20 (.79)	E5-6011	30 (1.18)	E5-6016	40 (1.57)	E5-6021
12 (.47)	E5-6007	22 (.87)	E5-6012	32 (1.25)	E5-6017	42 (1.65)	E5-6022

If grip falls between two choices, use the smaller option





E5 Cam Latch

Zinc · Push-to-close · Hand, key or tool operated · Single and two point

- Single hole installation
- Latched / unlatched indicator
- Push-to-close action

Material and Finish

Zinc alloy, powder coated and steel, zinc plated

Performance Details

Maximum static load: 330 N (74 lbf)

Installation Notes

Mounting nut maximum tightening torque: 10 N·m (88 in·lbf)

Screw Maximum tightening torque: 5 N·m (45 in·lbf) for two point actuator only

Keys and Accessories

See page 130

Notes

Single Point: Push-to-close action in unlocked position only and key inserted (cylinder lock)

Two Point: Order actuator separately (see page 131)

For lock core selection and a complete overview of the *SOUTHCO*® Key-Choice System see page 158

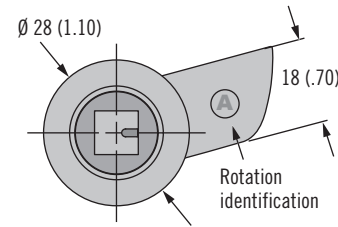
Actuator Part Number

See page 131 for details

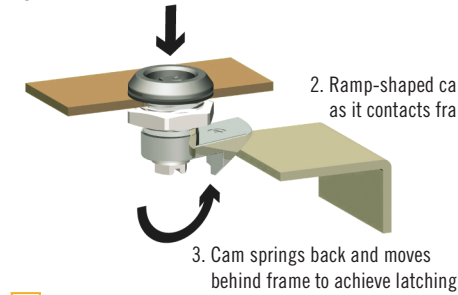
Two point to be used with *SOUTHCO*® R4 rotary series latches and cables see page 272

Two point push to close action: Internal spring causes return of driver and actuator to original latched position when driver is released after opening. Ideal for use with cables and rotary latches.

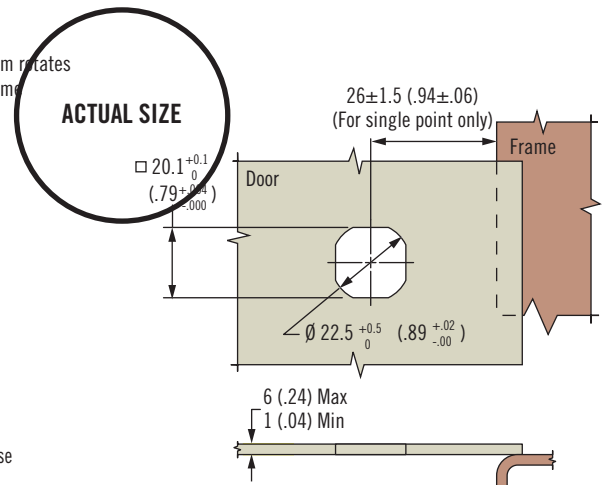
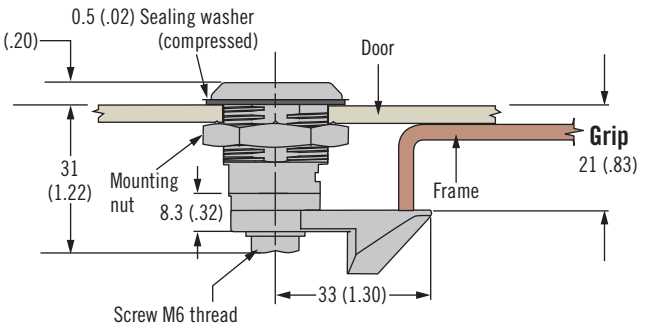
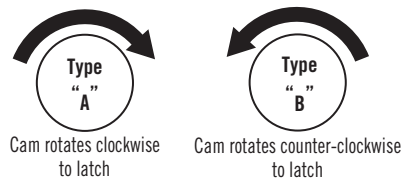
Single Point Spring-Loaded (Type A tool operated shown)



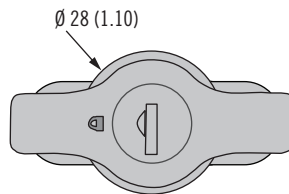
Operation



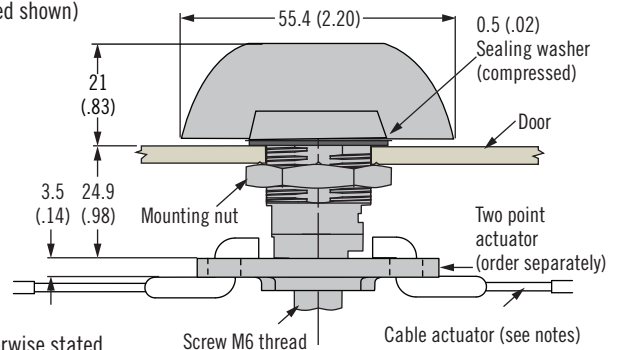
Rotation



Two Point Spring-Loaded (Type A hand operated shown)

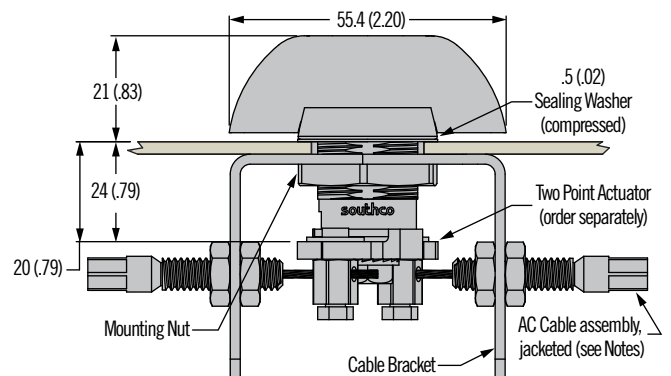


Dimensions in millimeters (inch) unless otherwise stated



Two Point Actuator for bare cable

(order separately, see page 132)



Hand / Key Operated

- F Finish**
- 2 Bright chrome (not available for wing type)
 - 5 Black powder coated

- T Type**
- 5 Cylinder lock keyed alike CH751
 - 9 Wing / T-handle / L-handle





- R Rotation**
- 51 Type A single point (for visual identification cam stamped A or B)
 - 52 Type B single point (for visual identification cam stamped A or B)
 - TR Type A two point (order actuator separately)
 - TL Type B two point (order actuator separately)

Part Number Selection

Latch supplied fully assembled

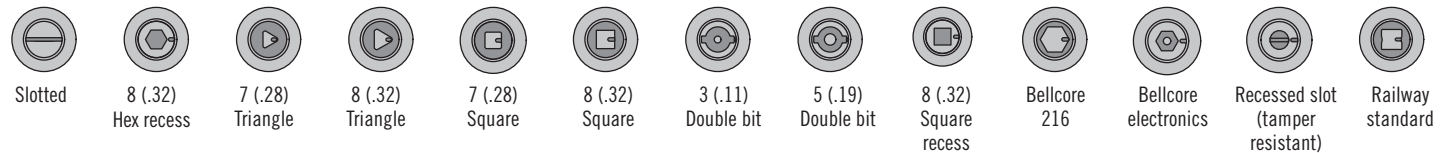
- K Key options**
- 0 No keys supplied (order separately, see page 130)
 - 3 1 Overmolded key supplied

E5 - T - L F - R 0 - 1 K

Lock style	T = 5		T = 9	
				
	Cylinder Lock	Wing	T-handle	L-handle
Non-locking (omit last two digits of part number)	~	30	60	70
Keyed CH751 (lock core finish matches handle finish)	~	31	61	71
Keyed CH751 (stainless steel scalp shuttered)	40	~	~	~
Keyed R001 reversible (stainless steel scalp shuttered)	~	32	62	72
Without lock core (omit last two digits of part number) (to be ordered separately see page 158)	~	33	63	73

Tool Operated

H Head Styles



Dimensions in millimeters (inch) unless otherwise stated

- F Finish**
- 2 Bright chrome
 - 5 Black powder coated

- H Head style**
- 00 Slotted
 - 01 8 (.32) Hex recess
 - 02 7 (.28) Triangle
 - 03 8 (.32) Triangle
 - 04 7 (.28) Square
 - 05 8 (.32) Square
 - 06 3 (.11) Double bit
 - 07 5 (.19) Double bit
 - 08 8 (.32) Square recess
 - 13 Bellcore 216
 - 19 Bellcore electronics
 - 21 Recessed slot (tamper resistant)
 - 22 Railway standard

- R Rotation**
- 51 Type A single point (for visual identification, cam stamped A or B)
 - 52 Type B single point (for visual identification, cam stamped A or B)
 - TR Type A two point (order actuator separately)
 - TL Type B two point (order actuator separately)

Part Number Selection

Latch supplied fully assembled

E5 - 6 - H F - R 0





E5 Cam Latch Accessories

Keys

Material and Finish

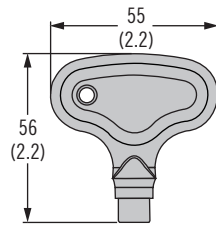
Tool key: Zinc alloy or nylon

Overmolded key: Nickel plated and ABS plastic black

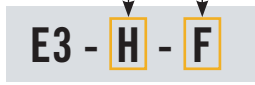
Flat key: Nickel plated

Keys Zinc or Nylon

- H** Head style
- 2 3 (.11) Double bit
 - 3 7 (.28) Triangle
 - 4 7 (.28) Square
 - 7 8 (.32) Triangle
 - 8 8 (.32) Square recess
 - 9 5 (.19) Double bit (nylon only)
 - 10 8 (.32) Square male (zinc only)
 - 11 Bellcore electronics
 - 12 Bellcore 216 (zinc only)

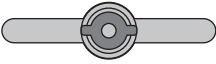
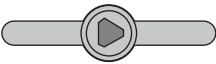
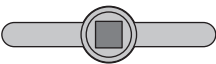
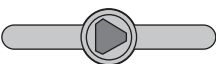
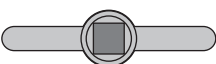






- F** Finish
- 1 Plated zinc
 - 2 Natural zinc
 - 3 Nylon, black



Dimensions in millimeters (inch) unless otherwise stated

Head Styles

-  2 3 (.11) Double bit
-  3 7 (.28) Triangle
-  4 7 (.28) Square
-  7 8 (.32) Triangle
-  8 8 (.32) Square recess
-  9 5 (.19) Double bit
-  10 8 (.32) Square male
-  11 Bellcore electronics
-  12 Bellcore 216

Part Number

Overmolded key CH751:

Single: PK-10-10-05

Pair: PK-10-01-05

Overmolded key R001:

Single: PK-10-10-05-KR001

Pair: PK-10-01-05-KR001

Flat key

Pair: PK-10-01

Overmolded Keys

Key CH751

Key R001



Flat Keys

Key CH751

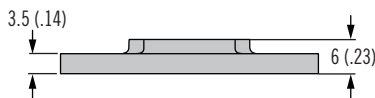
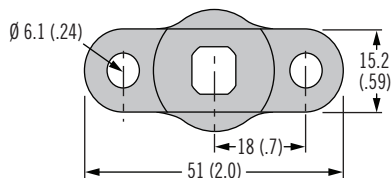


E5 Cam Latch Accessories

Multi-point actuators · Dummy cam



Multi-Point Actuator



Part Number

A5-91-201-11

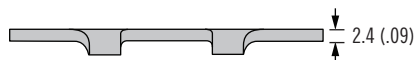
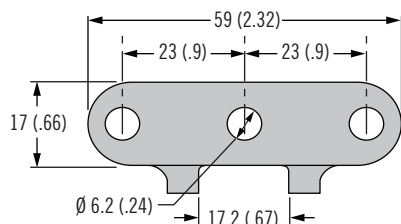
Material and Finish

Zinc alloy

Notes

Actuator plate (for multi-point see page 272 for cable assembly) (not recommended for key-locking)
Not to be used with low profile E5

Multi-Point Actuator - Low Profile



Part Number

A8-4-01-03

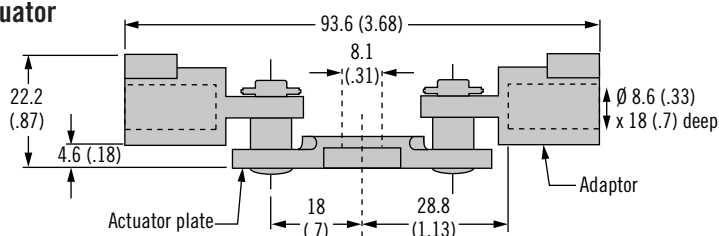
Material and Finish

Steel, plated

Notes

Actuator plate (for multi-point see pages 198-199 for rods)
For use with all E5 latches

Multi-Point Actuator



Part Number

A5-90-101-11

Material and Finish

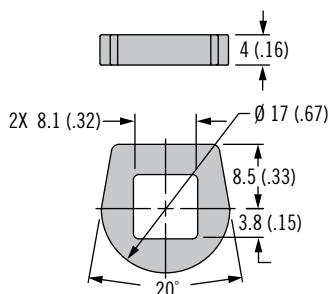
Zinc alloy and steel, zinc plated

Notes

Actuator plate (for multi-point see page 198 for rods)
Not to be used with low profile E5

Dummy Cam

Dimensions in millimeters (inch) unless otherwise stated



Part Number

Steel	H3-0-45688
Stainless Steel	H3-0-45688-24

Material and Finish

Steel, stainless steel

Notes

Replaces cam when used with actuator plate A5-90-101-11 in order to create a 2-point latching system





E5 Cam Latch Accessories

Hooked cam · Multi-point actuator · Cable brackets

Material and Finish

Steel plated

Hook cam: Steel, plated

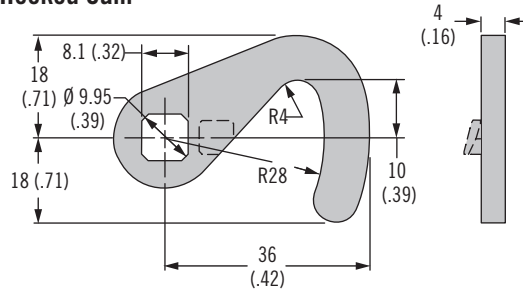
Multi-point actuator: Zinc alloy, plated

Cable bracket: Steel, plated

Notes

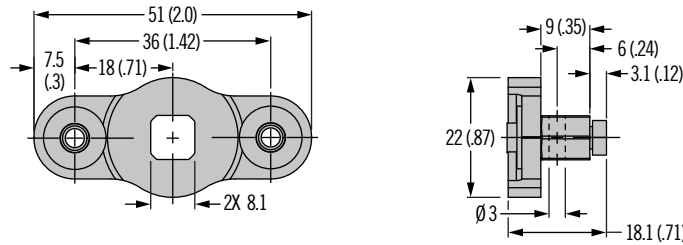
Not to be used with low profile E5

Hooked Cam



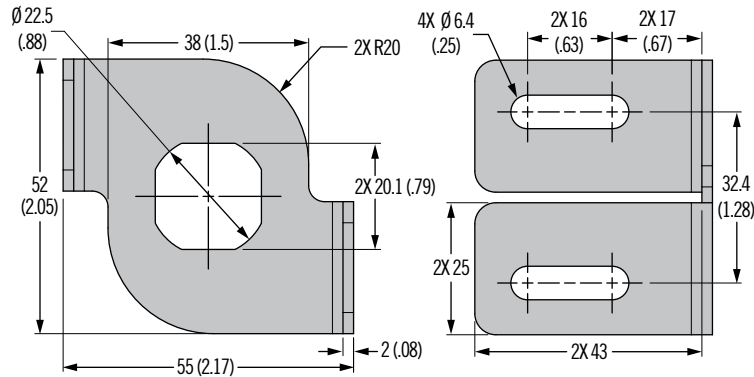
Hooked Cam Part Number	
E5-6200	No stop
E5-6210	Stop for clockwise rotation
E5-6220	Stop for counter-clockwise rotation

Multi-Point Actuator



Part Number
A5-99-136

Cable Bracket – Counter Clockwise Rotation



Part Number
AC-0-49617-11-L

Part Number

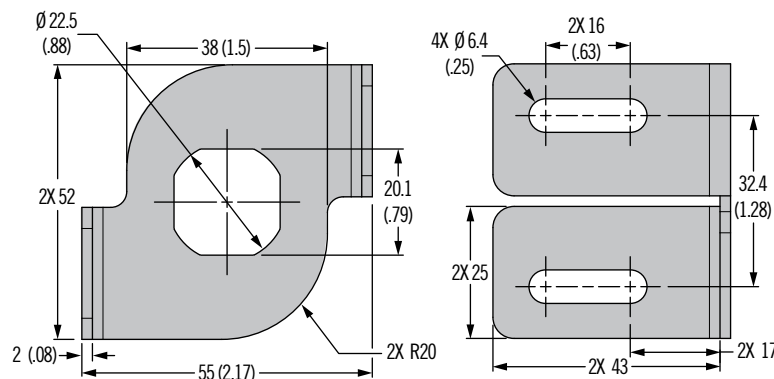
See table

Notes

See page 272 for additional cable assembly selections

Cable Bracket – Clockwise Rotation

Dimensions in millimeters (inch) unless otherwise stated

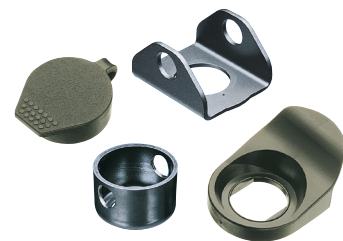


Part Number
AC-0-49617-11-R

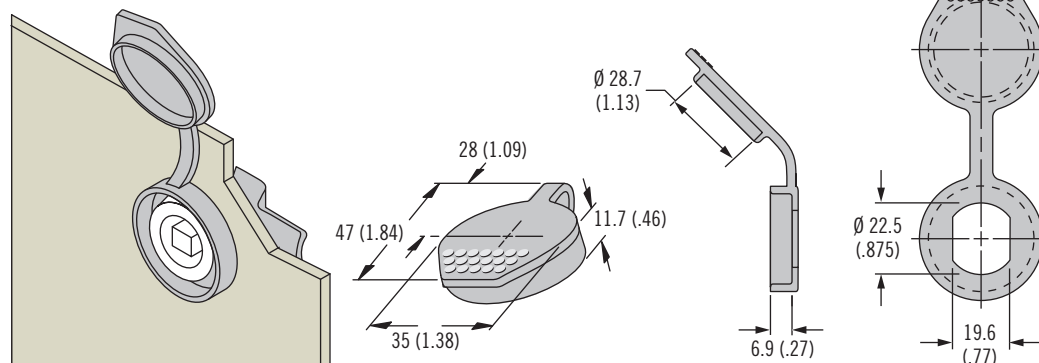


E5 Cam Latch Accessories

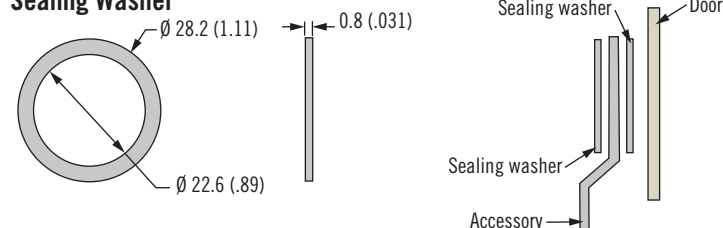
Sealing cover · Sealing washer · Pull tab · Padlock bracket



Sealing Cover

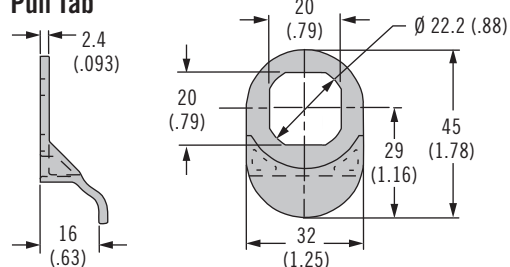


Sealing Washer

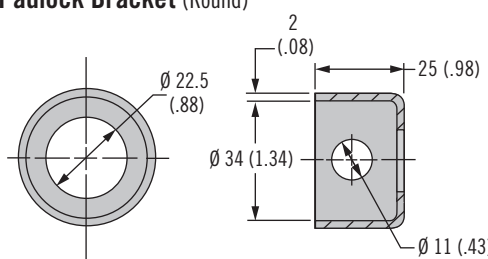


Type	Part Number	Grip Adjustment Formula
Sealing washer	E5-17	Add 0.4 (0.02) compressed height to door thickness
Sealing cover	90-3	Add 2.3 (.090) to door thickness

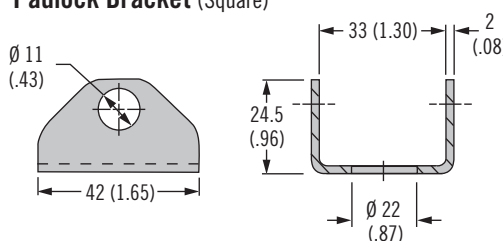
Pull Tab



Padlock Bracket (Round)



Padlock Bracket (Square)



Shown perpendicular to latch cam

Shown in-line with latch cam

Dimensions in millimeters (inch) unless otherwise stated

Type	Part Number	Grip Adjustment Formula
Padlock bracket square	E3-77-101-31	Add 2 (.08) to door thickness
Padlock bracket round	E3-77-102-31	Add 2 (.08) to door thickness
Pull tab	E5-18	Add 2.4 (.093) to door thickness

Material and Finish

Sealing washer: Neoprene natural

Sealing cover: Thermoplastic elastomer, black

Installation Notes

To provide sealing: use two sealing washers and add compressed thickness of each washer and accessory thickness to your door thickness range.

Notes

Sealing washer for use with all E5 products

Sealing cover for use with tool operated and cylinder lock E5 only

Part Number

See table

Material and Finish

Padlock bracket: Stainless steel, black powder coated

Pull tab: Nylon, black

Installation Notes

To provide sealing: use two sealing washers and add compressed thickness of each washer and accessory thickness to your door thickness range.

Notes

Padlock brackets and pull tabs for use with tool operated and cylinder lock E5 only

Part Number

See table





92 Cam Latch

T and L-Handle · Adjustable grip

- Round hole install
- Detents in open and closed position

Material and Finish

Zinc alloy and steel, zinc plated

Performance Details

Maximum static load:
 Short cam 400 N (90 lbf)
 Long cam 200 N (45 lbf)

Installation Notes

Screw and lockwasher assembly
 M4 x 10 (supplied).
 For door thickness > 3.0 (.12),
 calculate screw length using the
 following formula:
 Door thickness + 7.00 (.28)

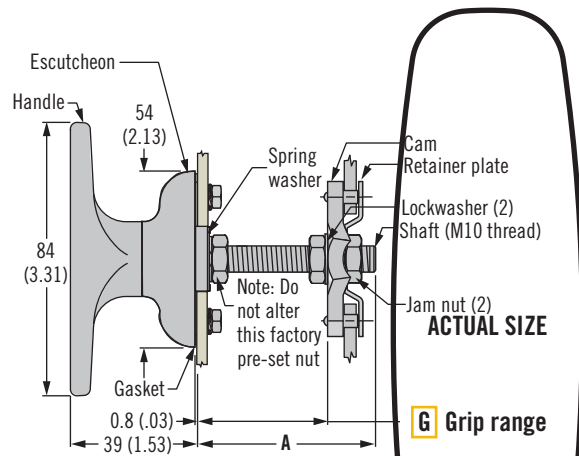
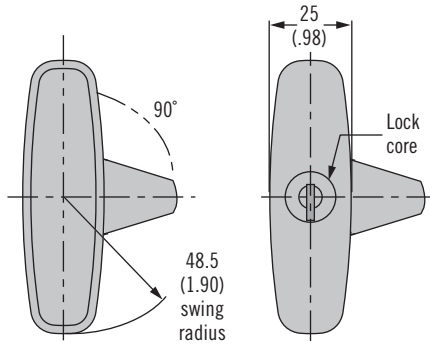
Keys

See page 130

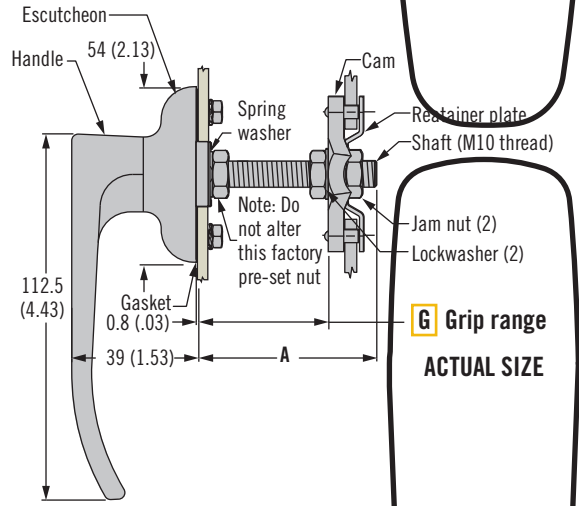
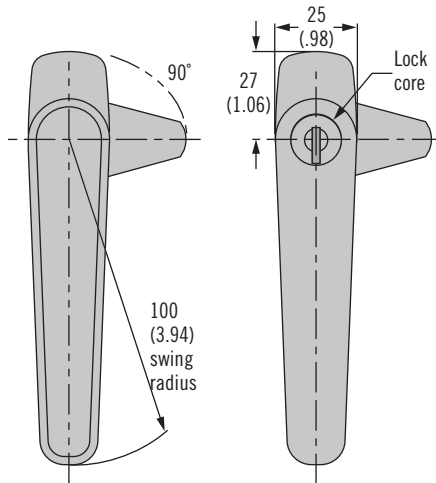
Notes

For fixed grip versions see page 124
 For version with 8 (.32) square shaft
 see page 143

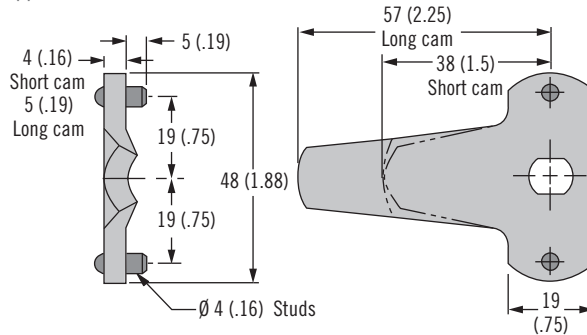
T-Handle



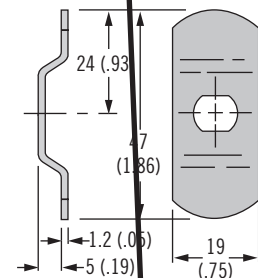
L-Handle



Cam (supplied)

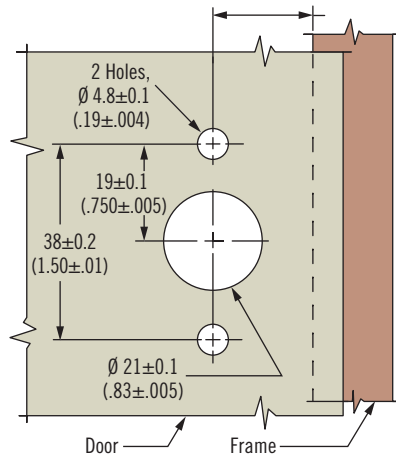
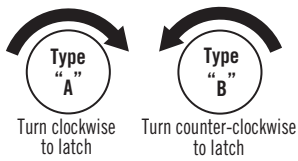
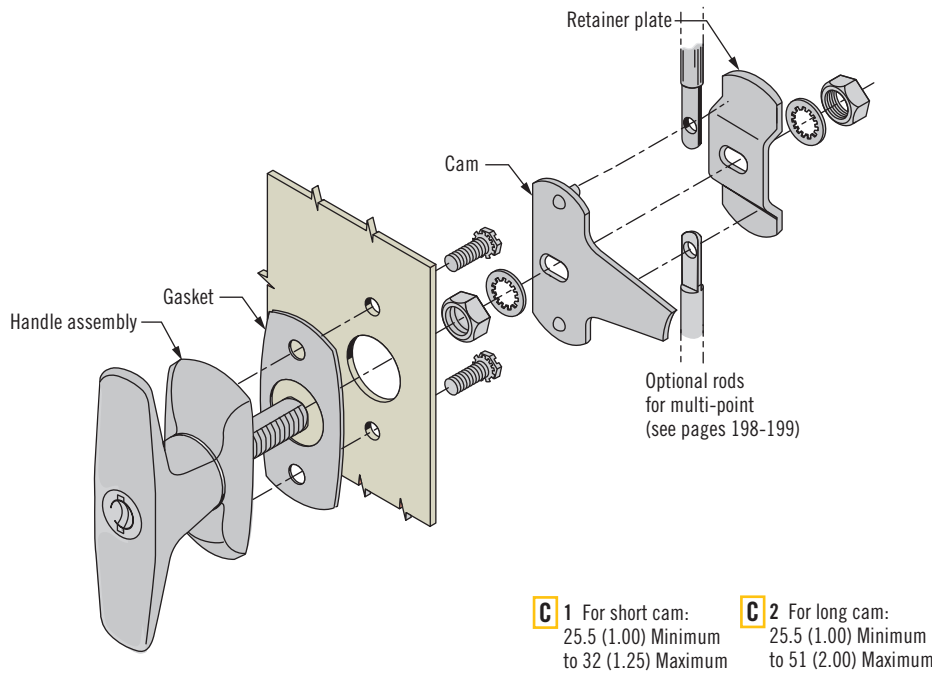


Retainer Plate (supplied)



Dimensions in millimeters (inch) unless otherwise stated





Dimensions in millimeters (inch) unless otherwise stated

R Rotation

- Type A clockwise to latch
- Type B counter-clockwise to latch

F Finish

- Bright chrome
- Black powder coated

C Cam

- Short 38 (1.5)
- Long 57 (2.25)

L Lock style

- T-handle non-locking
- T-handle key-locking CH751 (two keys supplied)
- L-handle non-locking
- L-handle key-locking CH751 (two keys supplied)

G Grip

Grip	Minimum	Maximum	A
1		19 (.75)	32 (1.25)
2	16 (.63)	32 (1.25)	44.5 (1.75)
3		44.5 (1.75)	57.5 (2.25)

92 - L R - F G C

Part Number Selection

See table



68 Cam Latch

Small · T-Handle · Adjustable grip

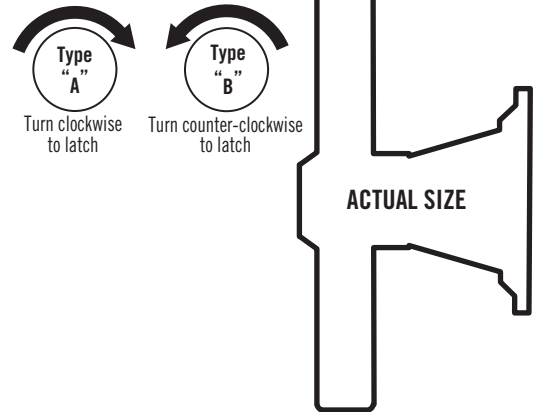
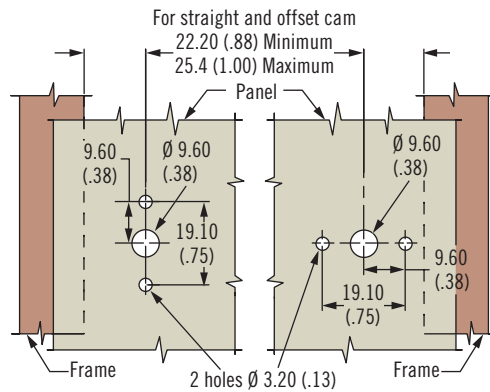
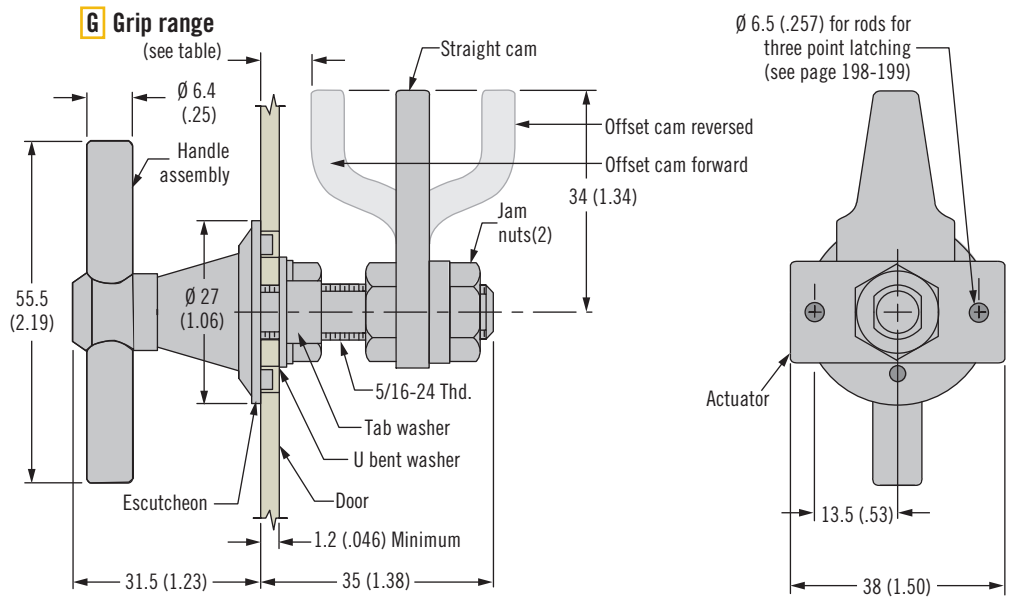
• Robust design

Material and Finish

Zinc alloy and steel, zinc plated

Performance Details

Maximum static load:
1100 N (250 lbf)



Dimensions in millimeters (inch) unless otherwise stated

Part Number Selection

See table

68 - 50 - 30 G - F

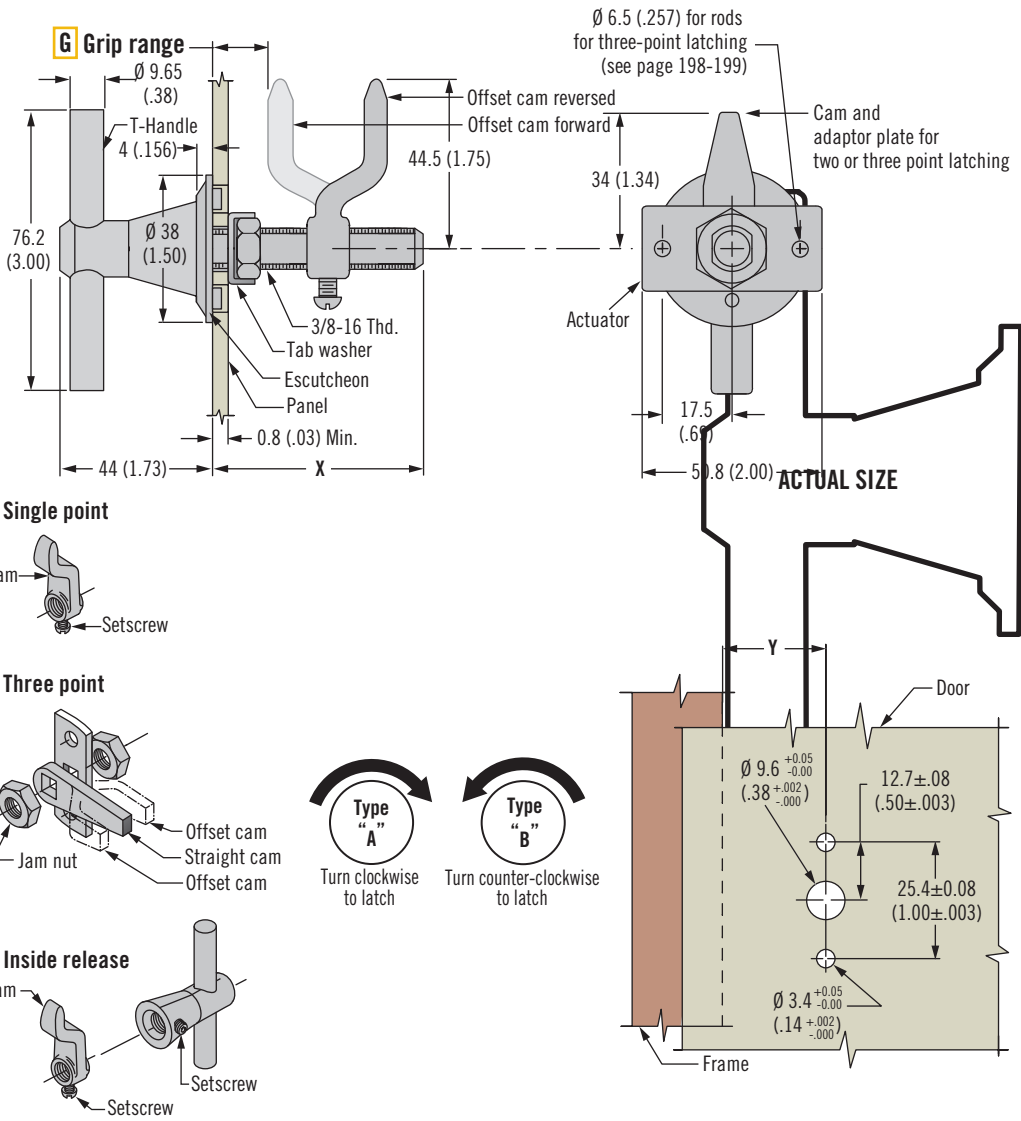
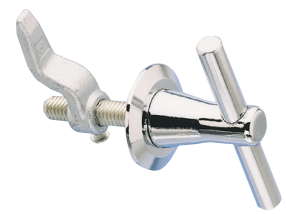
G Grip	Minimum	Maximum	Cam Type
1	0 (0)	12.7 (.50)	Offset cam forward position
	25.4 (1.00)	38 (1.50)	Offset cam reversed position
2	12.7 (.50)	25.4 (1.00)	Straight cam

- F Finish**
- 10 Zinc plate bright chromate
 - 20 Chrome plated



68 Cam Latch

Medium · T-Handle · Adjustable grip



- Robust design
- Optional internal actuation

Material and Finish

Zinc alloy and steel, zinc plated

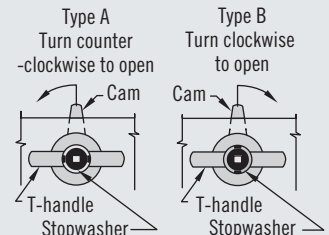
Performance Details

Maximum static load:
1100 N (250 lbf)

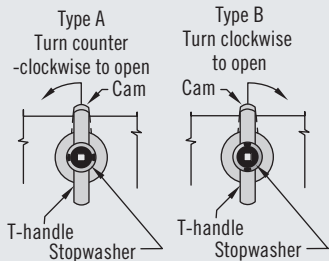
Installation Notes

T-handle orientation and operation:

1. Handle parallel to the edge of door when latched.



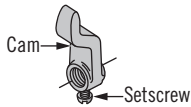
2. Handle perpendicular to edge of door when latched.



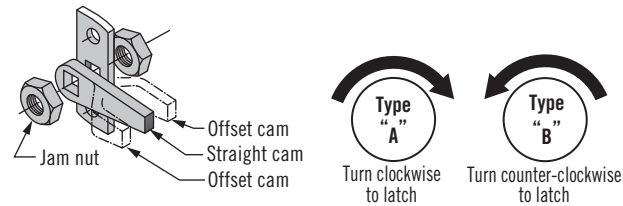
Part Number Selection

See table

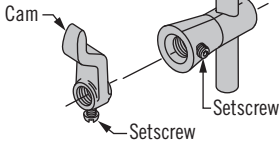
A Single point



A Three point



A Inside release



A Assembly

- 1 Single point
- 3 Three point
- 4 Inside release

Dimensions in millimeters (inch) unless otherwise stated

68 - 10 - A 0 G - F

F Finish

- 10 Zinc plate bright chromate
- 20 Chrome plated

Assembly	G Grip	Grip Range		X	Y	Cam Type	
		Minimum	Maximum				
Single point	1	3.2 (.13)	25.4 (1.00)	46.4 (1.83)	31.8±3.2 (1.25±.13)	Offset cam forward position	
		25.4 (1.00)	50.8 (2.00)			Offset cam reversed position	
Three point	1	1.6 (.06)	19.8 (.78)			28.6±1.6 (1.13±.06)	Offset cam forward position
		27 (1.06)	45.2 (1.78)				Offset cam reversed position
Three point	2	14.3 (.56)	32.5 (1.28)			Straight cam	
		Inside release	1		3.2 (.13)	25.4 (1.00)	65 (2.56)
25.4 (1.00)	50.8 (2.00)			Offset cam reversed position			





68 Cam Latch

Medium · Folding bail handle · Adjustable grip

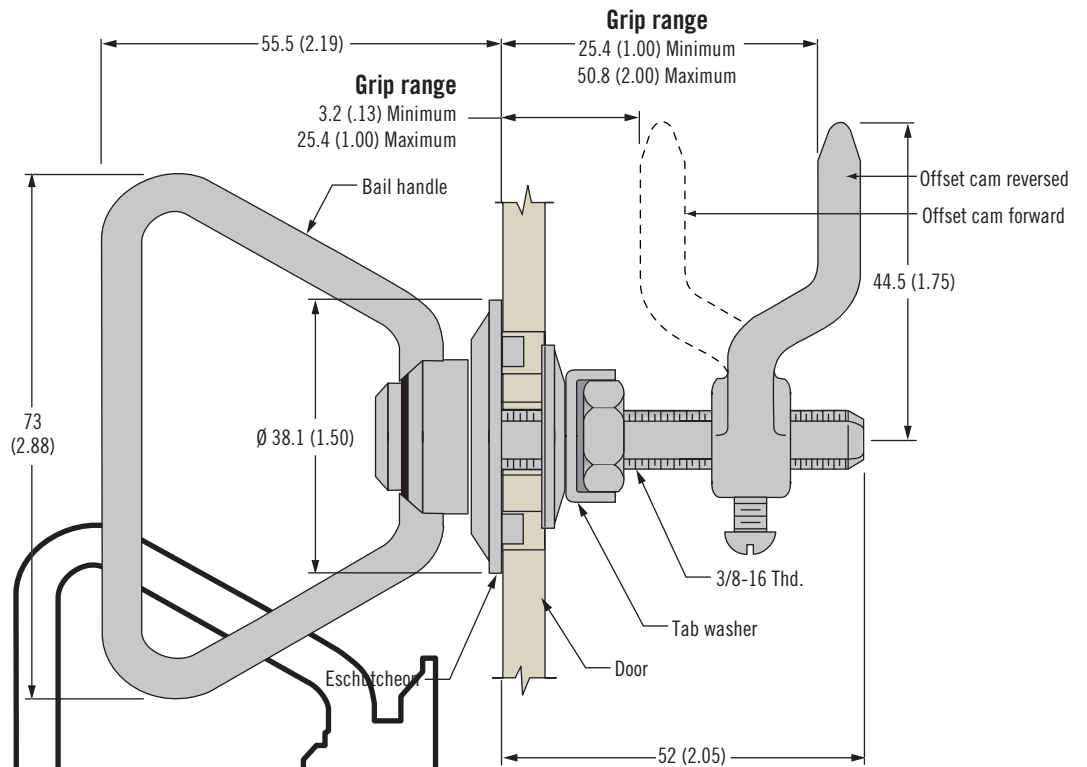
- Robust design
- 90° rotation

Material and Finish

Zinc alloy and steel, zinc plated

Performance Details

Maximum static load
890 N (200 lbf)

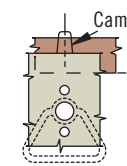


Bail Handle Orientation and Operation

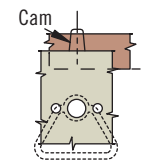
(Shown in latched position)

Type "A"
(Turn clockwise to latch)

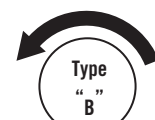
Type "B"
(Turn counter-clockwise to latch)



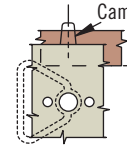
Bail parallel to edge of door when latched



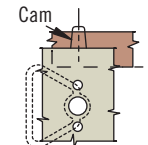
Bail parallel edge of door when latched



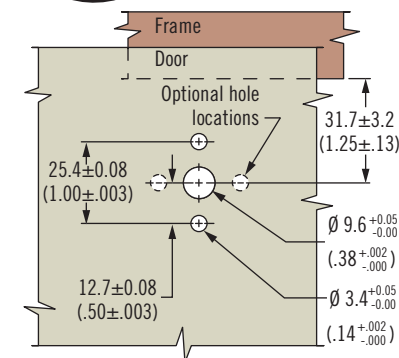
Turn counter-clockwise to latch



Bail perpendicular to edge of door when latched



Bail perpendicular to edge of door when latched



Dimensions in millimeters (inch) unless otherwise stated

Part Number Selection

See table

68 - 20 - 101 - **F**

F Finish

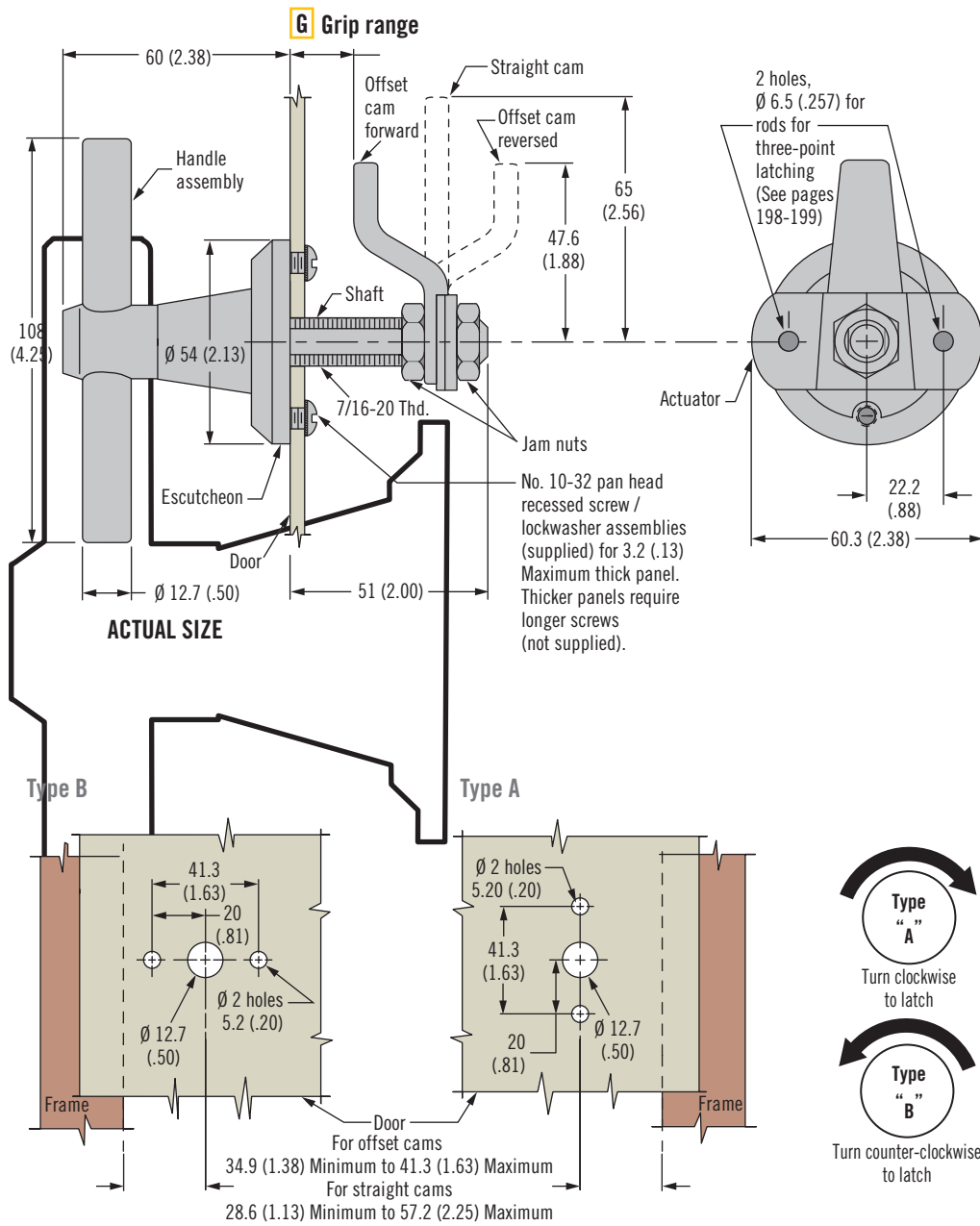
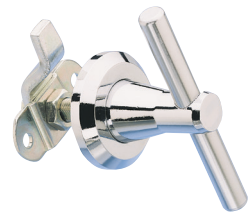
10 Zinc plate bright chromate

20 Chrome plated



68 Cam Latch

Large · T-Handle · Adjustable grip



Dimensions in millimeters (inch) unless otherwise stated

- Robust construction
- 90° movement

Material and Finish

Zinc alloy and steel, zinc plated

Performance Details

Maximum static load:
1300 N (300 lbf)

68 - 70 - 30 G - F

- F Finish**
- 10 Zinc plate bright chromate
 - 20 Chrome plated

G Grip	Minimum	Maximum	Cam Type
1	0 (0)	19 (.75)	Offset cam forward position
	25.4 (1.00)	57 (2.25)	Offset cam reversed position
2	6.4 (.25)	38 (1.50)	Straight cam

Part Number Selection

See table





01 Cam Latch

Small · Flush handle · Cup style · Adjustable grip

• **Low profile design**

Material and Finish

ABS, zinc and steel, zinc plated

Performance Details

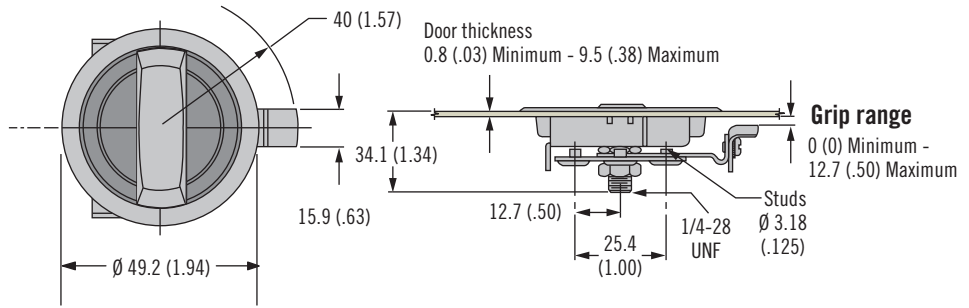
Maximum static load: 160 N (35 lbf)

Flammability rating: UL94-HB

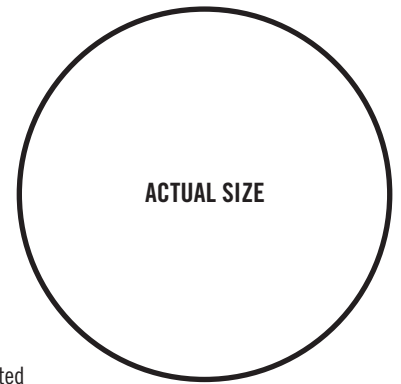
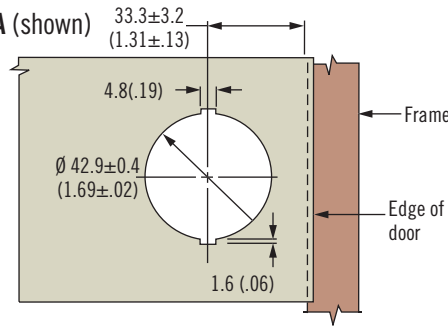
Notes

For multi-point latching options see page 176

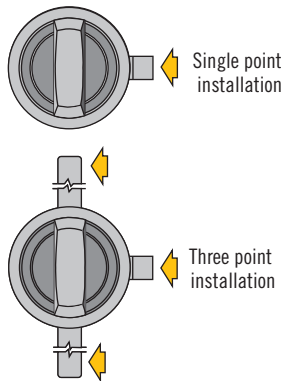
For fixed grip version see page 122



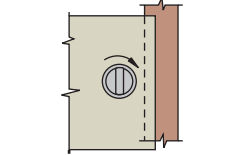
Type A (shown)



Dimensions in millimeters (inch) unless otherwise stated

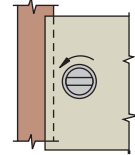


Type A Assemblies (Turn handle clockwise to latch)



Handle shown **parallel** to edge of door when latched

Type B Assemblies (Turn handle counter-clockwise to latch)



Handle shown **perpendicular** to edge of door when latched

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

Part Number Selection

See table



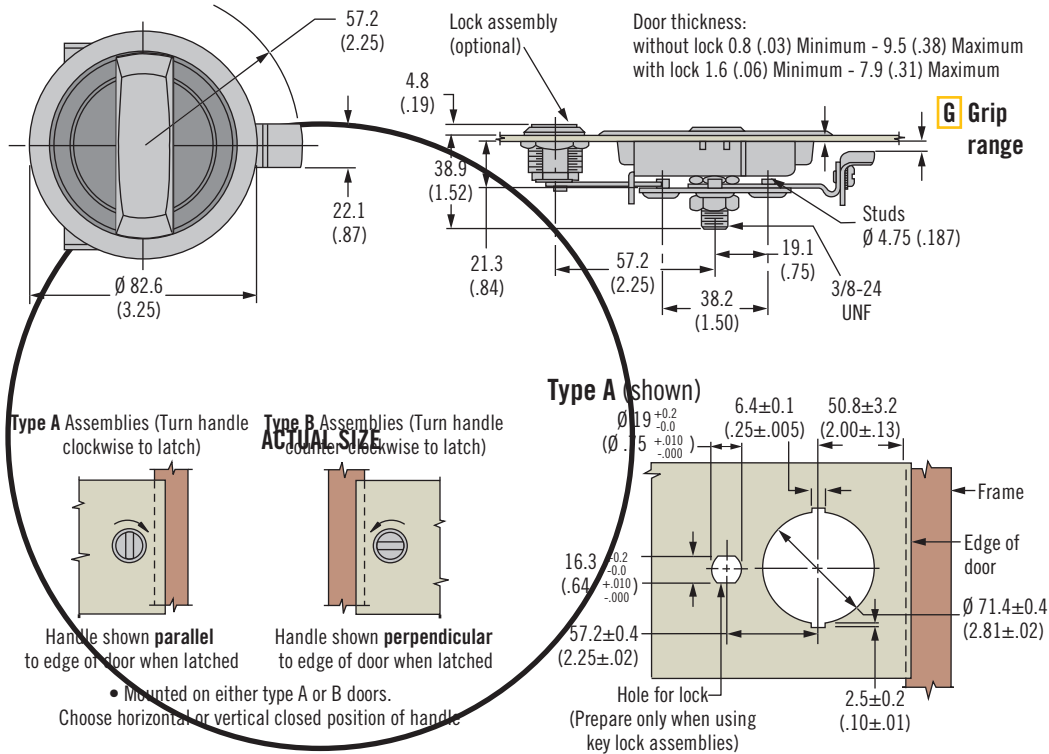
R Rotation

- 1 Type B counter-clockwise to latch for **parallel** installation
- 2 Type B counter-clockwise to latch for **perpendicular** installation
- 1 Type A clockwise to latch for **perpendicular** installation
- 2 Type A clockwise to latch for **parallel** installation



01 Cam Latch

Medium · Flush and bail handle · Cup style · Adjustable grip



• Low profile design

Material and Finish

ABS, zinc and steel, zinc plated

Performance Details

Maximum static load: 220 N (50 lbf)

Flammability rating UL94-HB

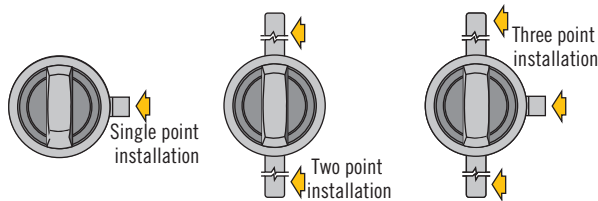
Keys

See page 130

Notes

For multi-point latching options see page 176

For fixed grip version see page 122



Part Number Selection

See table

L Lock style

- 1 Non-locking flat handle
- 2 Non-locking folding bail handle
- 3 Locking flat handle keyed alike CH751 (two keys supplied)
- 4 Locking folding bail handle keyed alike CH751 (two keys supplied)

Dimensions in millimeters (inch) unless otherwise stated

F Finish

- 1 Bright chrome
- 5 Black (flat handle only)

01 - L 3 - G F

G Grip	Grip Range	Type A	Type B	Cam Type
1	0 - 12.7 (0 - .50)	Perpendicular	Parallel	Single or three point latching
2	0 - 12.7 (0 - .50)	Parallel	Perpendicular	Single or three point latching
3	12.7 - 28.6 (.50 - 1.13)	Perpendicular	Parallel	Single or three point latching
4	12.7 - 28.6 (.50 - 1.13)	Parallel	Perpendicular	Single or three point latching
5	Two point only	Perpendicular	Parallel	Two point only
6	Two point only	Parallel	Perpendicular	Two point only





24 Cam Latch

Flush T-handle · Adjustable grip

• **Concealed mounting type**

Material and Finish

Zinc alloy and steel, zinc plated or stainless steel

Performance Details

Maximum static load:
445 N (100 lbf)

Installation Notes

Maximum tightening torque of mounting nuts not to exceed 2.8 N·m (25 in·lbf)

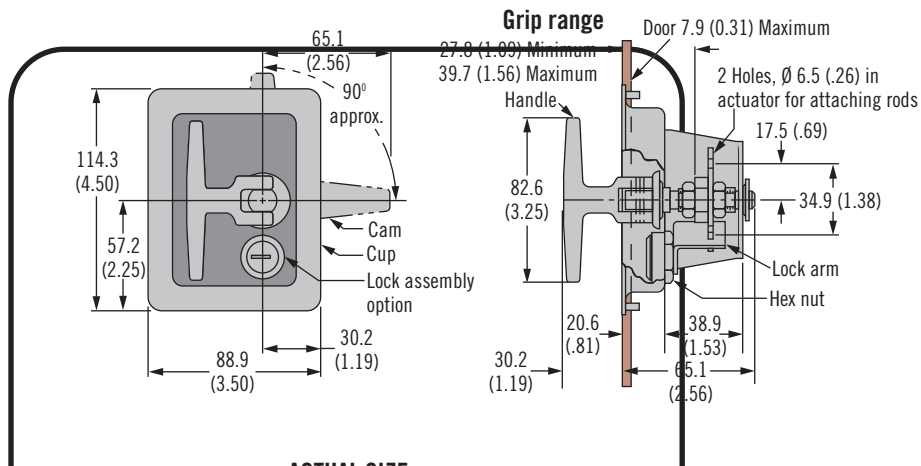
Keys

See page 130

Other options available. For complete details on variety, part numbers, installation and specification, go to



www.southco.com/24



Part Number		
Style	With Mounting Studs	
	Cup and bracket polished stainless steel. Handle zinc chrome plated	Cup and bracket steel dacrotized. Handle zinc dacrotized
Locking keyed alike CH751 supplied	24-20-812-35	24-20-812-10
Non-locking	24-20-302-35	24-20-302-10
Non-locking environmentally sealed	24-20-312-35	24-20-312-10



69 Cam Latch

Arrowhead · Detent design · Adjustable grip

- Arrow indicates cam orientation
- Single hole installation
- Detented design
- Adjustable grip

Material and Finish

Nylon and steel, zinc plated

Performance Details

Small size working load:

44 N (10 lbf)

Medium size working load:

220 N (50 lbf)

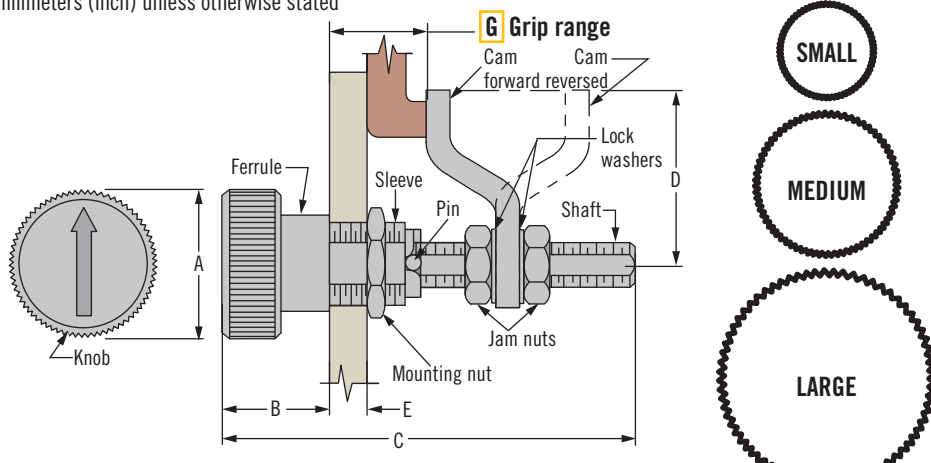
Large size working load:

330 N (75 lbf)

Other options available. For complete details on variety, part numbers, installation and specification, go to

www.southco.com/69

Dimensions in millimeters (inch) unless otherwise stated



Size	Part Number	Grip Range		A	B	C	D	E
		Minimum	Maximum					
Small	69-10-301-11	4 (.16)	28.2 (1.11)	12.7 (.50)	12.7 (.50) Max.	38.1 (1.50)	13.5 (.53)	4.75 (.188)
Medium	69-10-401-11	3.2 (.13)	33.3 (.13)	19.1 (.75)	17.5 (.69) Max.	47.5 (1.87)	15.9 (.63)	6.35 (.25)
Large	69-10-501-11	4.8 (.19)	61.9 (2.44)	28.6 (1.13)	25.4 (1) Max.	79.2 (3.12)	34.1 (1.34)	12.7 (.50)



Request Info



1-800-453-1692

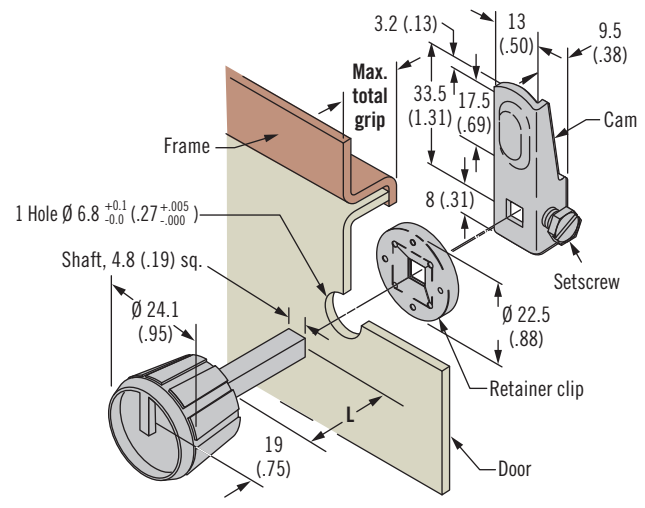
www.aboveboardelectronics.com



61 Cam Latch

Universal cabinet series · Adjustable grip

Knob Style



- Single hole installation
- Accommodates wide grip ranges

Material and Finish

Nylon and steel, zinc plated

Performance Details

Maximum static load: 110 N (25 lbf)

Notes

Knob style shown. Additional L-handle and flush slotted styles available

Maximum Total Grip	Shaft Length L	Assembly Part number
12.5 (.50)	25.5 (1.00)	61-10-102-11
25 (1.00)	38 (1.50)	61-10-104-11
44.5 (1.75)	57 (2.25)	61-10-107-11

Other options available. For complete details on variety, part numbers, installation and specification, go to



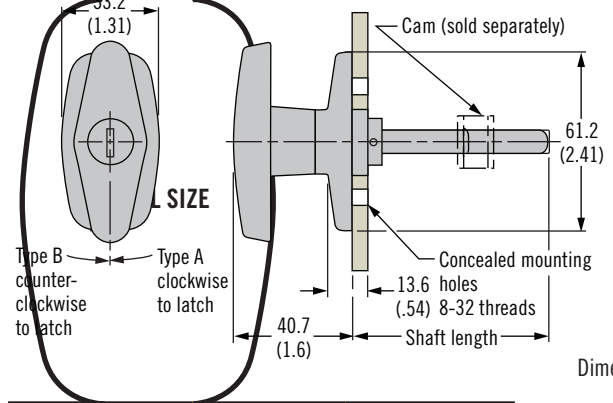
www.southco.com/61

92 Cam Latch

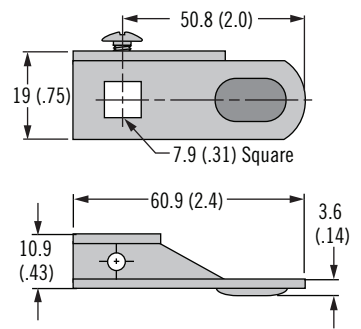
T, Compact-T and L-handle · Adjustable grip



Compact T-handle



Cam



Dimensions in millimeters (inch) unless otherwise stated

Finish	Shaft Length	Locking Compact-T Part Number	
		Type A	Type B
Black	38.1 (1.5)	92-61-113-50	92-61-213-50
	50.8 (2.0)	92-61-114-50	92-61-214-50
	63.5 (2.5)	92-61-115-50	92-61-215-50

Cam Part Number
92-24-203-12

Compact T-handle style shown. T and L-handle style available. Locking and non-locking.

- Easy cam adjustments

Material and Finish

Zinc alloy, powder coated or chrome plated and steel, zinc plated

Performance Details

Maximum static load: 150 N (34 lbf)

Notes

Black and chrome finish available
 For versions with threaded shaft see page 134.
 For fixed grip versions see page 124.
 Gasket Part Number: 92-70-G (sold separately)

Other options available. For complete details on variety, part numbers, installation and specification, go to

www.southco.com/92





H3 Swinghandle

Medium / large · Sealed / non-sealed

- Zinc alloy swinghandle system
- Multiple locking options; including DIN profile
- Indoor/outdoor version
- Available for medium (125mm x 25mm) and large (150mm x 25mm) door cutout

Material and Finish

Handle: Zinc alloy, black powder coated or satin chrome plated
Cam: Steel, zinc plated

Performance Details

Maximum static load: 250 N (56 lbf)

Sealing Notes

Sealed version meets NEMA 4 / IP66 water intrusion standards

Keys

See page 130

Multi-Point Systems

See page 192

Notes

*For dimension details of DIN lock version, please contact Southco

Product available to meet **TELCORDIA®** GR-487; contact Southco for details

Electromechanical swinghandle available see page 38

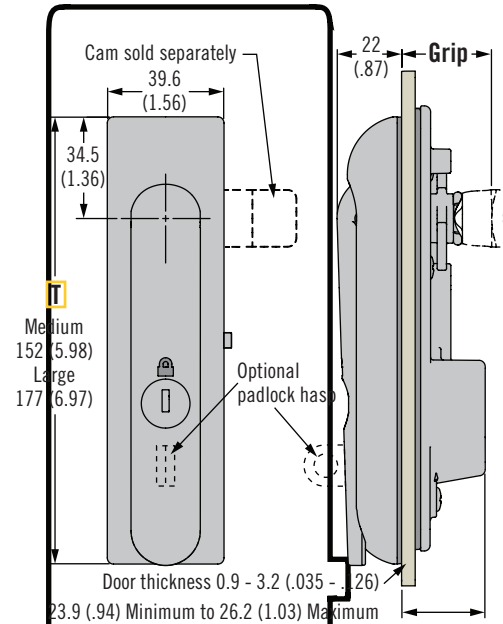
Key removal in lock position only for sealed version

For plastic version see page 196

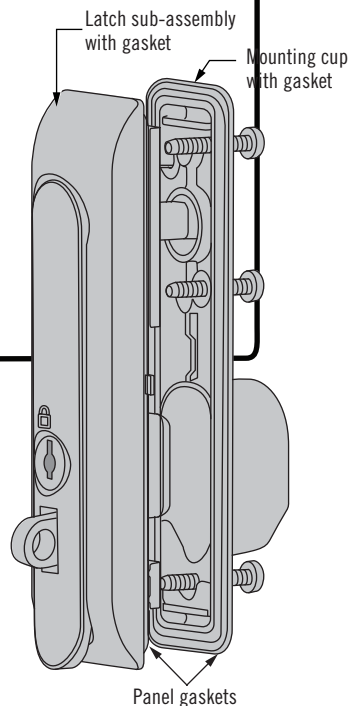
TELCORDIA is a registered trademark of Telcordia Technologies, Inc.

Sealed (H3-50 medium shown)

(H3-60 large available part number selection)

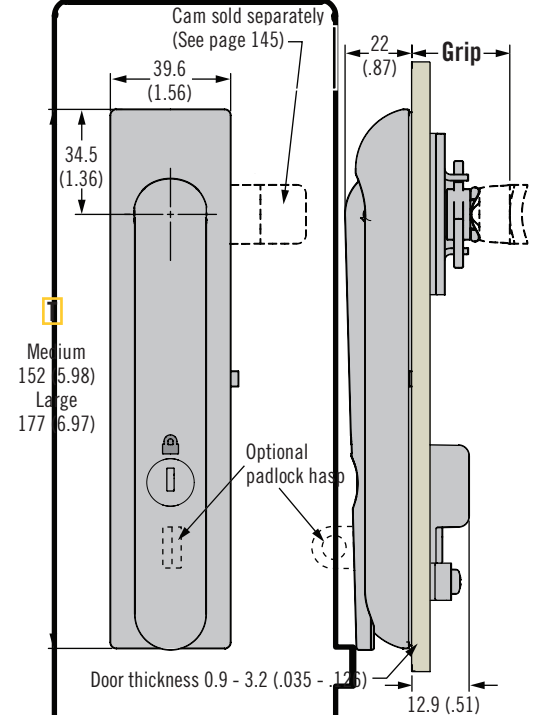


ACTUAL SIZE H3-50 MEDIUM

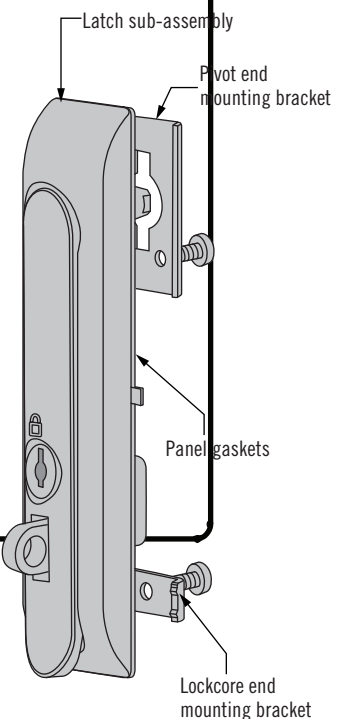


Non-Sealed (H3-60 large shown)

(H3-50 medium available part number selection)



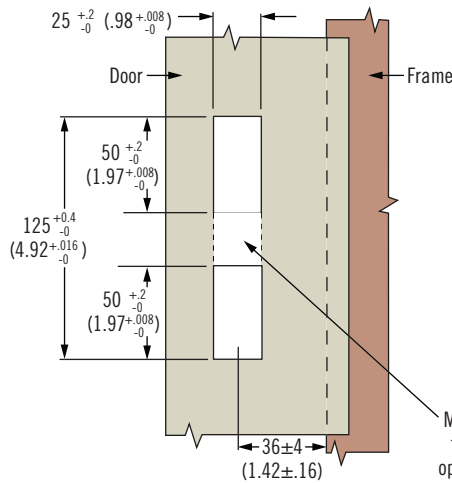
ACTUAL SIZE H3-60 LARGE



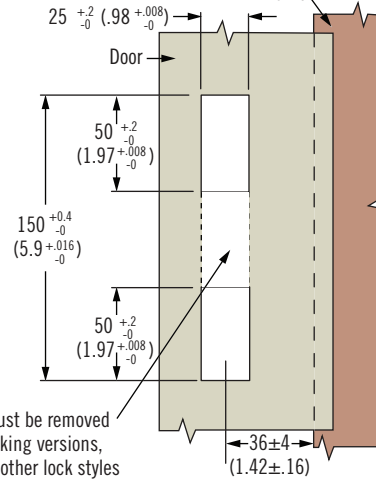
Dimensions in millimeters (inch) unless otherwise stated



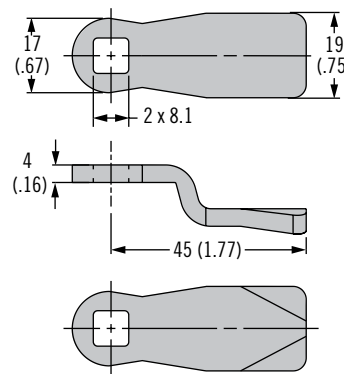
Medium H3-50



Large H3-60



Cam Part Number Table For Use As Single Point Or With Actuator Plate (order separately from latch)			
Grip	Part Number	Grip	Part Number
10.3 (.41)	E5-6107	26.3 (1.04)	E5-6115
12.3 (.48)	E5-6108	28.3 (1.11)	E5-6116
14.3 (.56)	E5-6109	30.3 (1.19)	E5-6117
16.3 (.64)	E5-6110	32.3 (1.27)	E5-6118
18.3 (.72)	E5-6111	34.3 (1.35)	E5-6119
20.3 (.80)	E5-6112	36.3 (1.43)	E5-6120
22.3 (.88)	E5-6113	38.3 (1.51)	E5-6121
24.3 (.96)	E5-6114	40.3 (1.59)	E5-6122



Part Number Selection

For single point:
Order latch and cam separately

For multi-point:
1. Order latch and cam separately
2. Order multi-point system accessories (linear actuator or actuator plate, rod, rod guide) if 3 point latching required see pages 192-201.

Notes

Actuator style **A** options 1 and 2 see pages 192-193

*2 Overmolded keys supplied

Dimensions in millimeters (inch) unless otherwise stated

Latch Part Number (no cam)

T Size ←
50 Medium - 152 (5.98) height
60 Large - 177 (6.97) height

A Actuator style ←
3 No padlock hasp for use as single point or with actuator plate (see page 195)
4 With padlock hasp for use as single point or with actuator plate (see page 195)

H3 - T - A L - S F

S Sealing option ←
0 Non-sealed
1 Sealed

F Finish ←
44 Satin chrome
50 Black powder coated

L Lock style

- 00 Locking DIN profile (no lock supplied)
- 01 Locking keyed alike CH751*
- 02 Locking keyed alike 300*
- 03 Locking keyed alike 333*
- 04 Non-locking
- 05 Locking keyed alike HL450*
- 20 Non-locking with detent
- 21 Locking DIN profile keyed alike CH751*
- 22 Locking DIN profile keyed alike 300*
- 23 Locking DIN profile keyed alike 333*
- 24 DIN without Lock Plug
- 40 3 mm Double-bit
- 41 5 mm Double-bit
- 42 Bellcore 216
- 43 Bellcore Hex-Pin Recess
- 47 8 mm triangle
- 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

For linear actuator version (see pages 192-193)





56 Spring-Loaded Plunger

Flare-in style – Miniature, Small and Large

- Simplified positioning of sliding components
- Quick-release hinge for removable door
- Fast installation and removal of components
- Designate access with color

Material and Finish

End cap: Steel, zinc plated, chromate, plus sealer
 Ferrule: Aluminum, natural
 Stud: Steel, hardened, zinc plated, chromate, plus sealer
 Knob: (Prism plungers only)
 PC/ABS, UL94-V0 Rated
 Spring: 300 series stainless steel, passivated

Installation Notes

Press with approximately 2,500 N (562 lbf) (Large and Small), 2,000 N (450 lbf) (Mini) until ferrule is flared into the countersink in the panel. A solid back-up tool must be used for proper installation

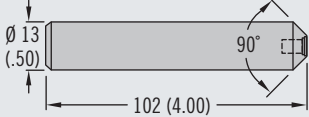
Part Number

See table

Install Tool

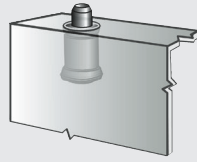
Part number: 47-110 (Miniature)
 56-7-TOOL (Large and Small)

Flaring tool

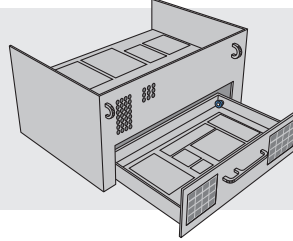


Applications

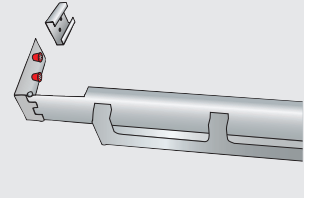
Retractable Hinge



Positioning / Secondary Catch

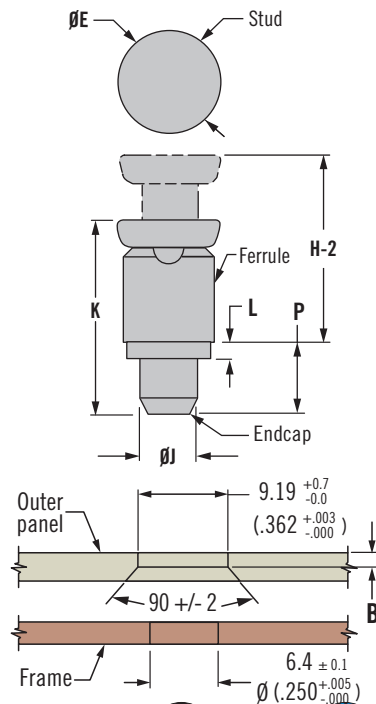


Quick Installation

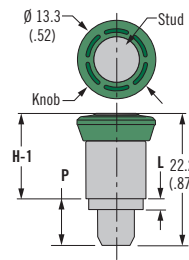


Flare-in style

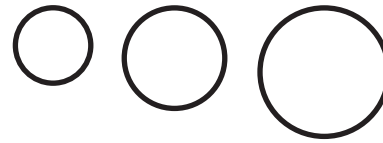
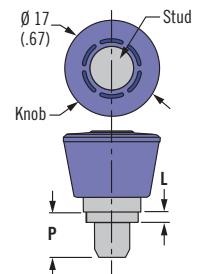
Bright - Miniature and Small



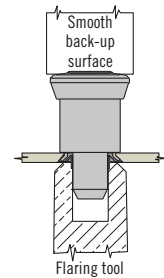
Prism - Miniature and Small



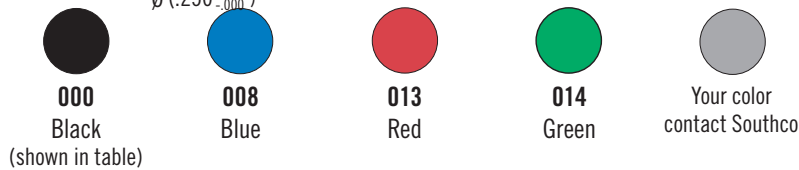
Prism - Large



ACTUAL SIZE



Dimensions in millimeters (inch) unless otherwise stated



Specifying Prism Color

To indicate color, change the last three digits of the part number.

Example:

56-161-000, black
 56-161-013, red

Outer Panel Thickness		P	Size	Knob Style	Part Number		H-1	H-2	Ø E	K	L	B	Ø J	Ø D	Ø C
A Min.	A Max.				Hold-Open	Without									
0.8 (.031)	1.5 (.06)	4.4 (.17)	Mini	Bright	56-21-1-15	56-20-1-15	9.9 (.39)	13.6 (.54)	8.5 (.33)	14.3 (.56)	1.0 (.04)	0.41 (.016)	4.29 (.169) MAX	6.76 ^{+0.1} _{-0.0}	4.3 ^{+0.13} _{-0.0}
				Prism	56-121-1-000	56-120-1-000	10.6 (.42)	14.3 (.56)	9 (.35)	15 (.59)					
				Bright	56-21-2-15	56-20-2-15	9.1 (.36)	12.8 (.50)	8.5 (.33)	14.3 (.56)					
				Prism	56-121-2-000	56-120-2-000	9.8 (.39)	13.5 (.53)	9 (.35)	15 (.59)					
1.5 (.06)	2.3 (.09)	5.2 (.20)	Small	Bright	56-71-1-15	56-70-1-15	13.7 (.54)	19.8 (.78)	11.5 (.45)	21.5 (.85)	1.78 (.07)	0.41 (.016)	6.33 (.249)	9.19 ^{+0.08} _{-0.0}	6.4 ^{+0.1} _{-0.0}
				Prism	56-171-1-000	56-170-1-000	14.5 (.57)	20.5 (.81)	13.3 (.52)	22.2 (.87)					
				Bright	56-71-2-15	56-70-2-15	12.2 (.48)	18.2 (.72)	11.5 (.45)	21.5 (.85)					
				Prism	56-171-2-000	56-170-2-000	12.9 (.51)	19 (.75)	13.3 (.52)	22.2 (.87)					
3.17 (.125)	4.7 (.185)	9.4 (.37)	Large	Bright	56-271-1-15	56-270-1-15	14.5 (.57)	20.5 (.81)	17 (.67)	22.2 (.87)	3.3 (.13)	1.52 (.06)	6.33 (.249)	9.19 ^{+0.08} _{-0.0}	6.4 ^{+0.1} _{-0.0}
				Prism	56-271-1-000	56-270-1-000	14.5 (.57)	20.5 (.81)	17 (.67)	22.2 (.87)					
				Bright	56-271-2-15	56-270-2-15	12.2 (.48)	18.2 (.72)	11.5 (.45)	21.5 (.85)					
				Prism	56-271-2-000	56-270-2-000	12.9 (.51)	19 (.75)	17 (.67)	22.2 (.87)					



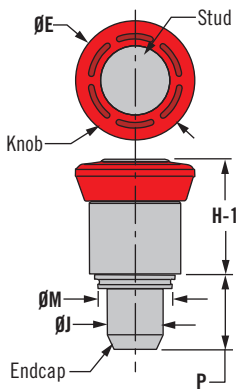
56 Spring-Loaded Plunger

Press-in style – Miniature, Small and Large

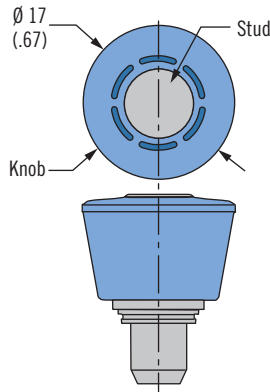


Press-In Style

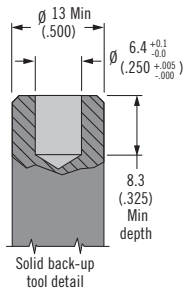
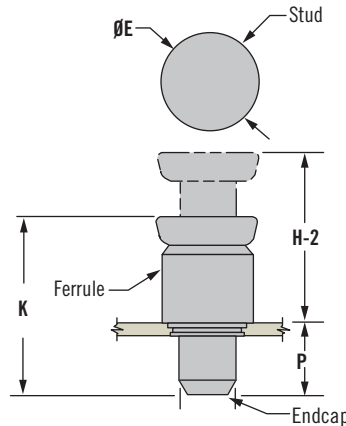
Prism - Miniature and Small



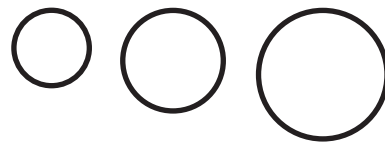
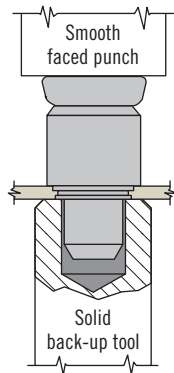
Prism - Large



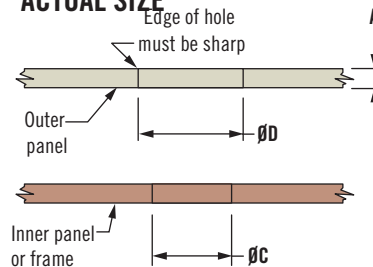
Bright - Miniature and Small



(Customer Supplied)



ACTUAL SIZE



000
Black
(shown in table)



008
Blue



013
Red



014
Green



Your color
contact Southco

Dimensions in millimeters (inch) unless otherwise stated

- Simplified positioning of sliding components
- Quick-release hinge for removable door
- Fast installation and removal of components
- Designate access with color

Material and Finish

End cap: Steel, zinc plated, chromate, plus sealer

Ferrule and stud: Steel, (Large and Small hardened), zinc plated, chromate plus sealer

Knob: (Prism plungers only) PC/ABS, black, UL94-V0 Rated

Spring: 300 series stainless steel, passivated

Installation Notes

Press knob with approximately 13,400 N (3000 lbf) (Large and Small), 8000 N (1800 lbf) (Mini) for steel, 6700 N (1500 lbf) (Large and Small), 5000 N (1124 lbf) (Mini) for aluminum panels until ferrule sits flush with panel. A solid back-up tool must be used for proper installation.

Part Number

See table

Specifying Prism Color

To indicate color, change the last three digits of the part number.

Example:
56-161-000, black; 56-161-013, red

Outer Panel Thickness		P	Size	Knob Style	Part Number		H-1	H-2	E	K	ø J	ø M	ø D	ø C	ø R	S
A Min.	A Max.				Hold-Open	Without										
0.8 (.031)	1.5 (.06)	4.4 (.17)	Mini	Bright	56-11-15	56-10-15	9.2 (.36)	12.9 (.51)	8.5 (.33)	13.6 (.54)	4.29 (.169) MAX	6.6 (.26)	6.7 ^{+0.08} / _{-0.0} (.264 ^{+0.003} / _{-0.003})	4.3 ^{+0.13} / _{-0.0} (.17 ^{+0.005} / _{-0.005})	9 (.35) MIN	4.5 (.18) MIN
				Prism	56-111-000	56-110-000	9.9 (.39)	13.6 (.54)	9 (.354)	14.3 (.56)						
1.52 (.06)	3.81 (.15)	8.2 (.32)	Small	Bright	56-61-15	56-60-15	12.2 (.48)	19.3 (.76)	11.5 (.45)	20.4 (.80)	6.33 (.249)	8.26 (.325)	8.4 ^{+0.0} / _{-0.1} (.328 ^{+0.003} / _{-0.003})	6.4 ^{+0.1} / _{-0.0} (.250 ^{+0.005} / _{-0.005})	13 (.50) MIN	8.26 (.325) MIN
				Prism	56-161-000	56-160-000	13 (.51)	20 (.79)	13.3 (.52)	21.1 (.83)						
			Large	Prism	56-261-000	56-260-000	13 (.51)	20 (.79)	17 (.67)	21.1 (.83)						





56 Spring-Loaded Plunger

Thread-in style · Small and Large

- Simplified positioning of sliding components
- Quick-release hinge for removable door
- Fast installation and removal of components

Material and Finish

Knob: Aluminum

Stud: Low carbon steel, case hardened, zinc plated, chromate plus sealer

Shell and sleeve: Steel, zinc plated, chromate plus sealer

Spring: Stainless steel, passivated

Detent washer: Steel, zinc plated (Hold-open only)

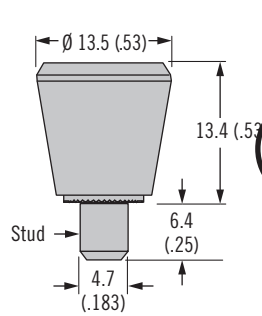
Part Number

See table

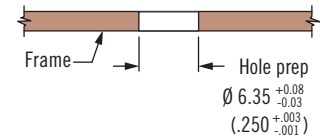
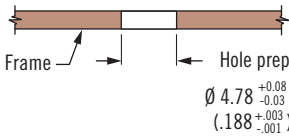
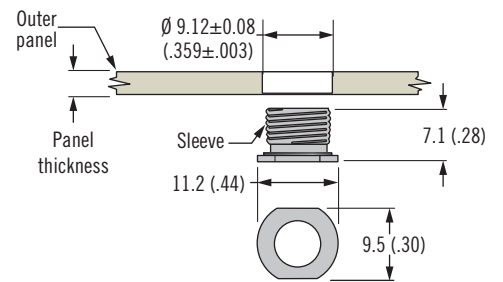
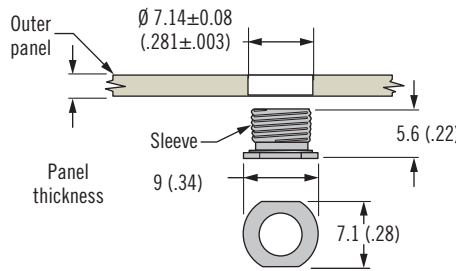
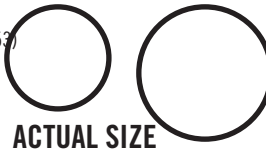
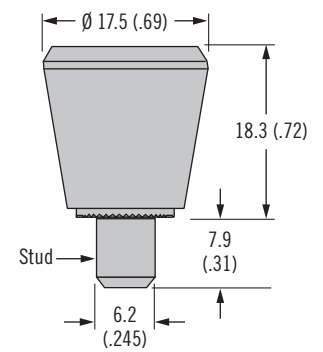
Part Number

See table

300 Series Bright - Small



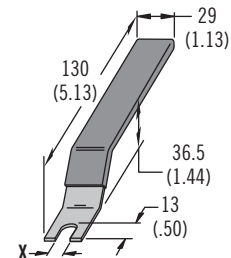
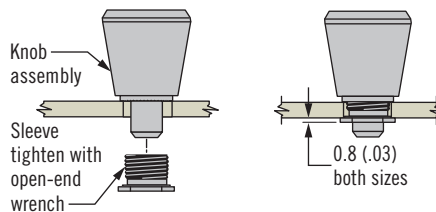
400 Series Bright - Large



Dimensions in millimeters (inch) unless otherwise stated

Series	Panel Thickness		Part Number	
	Minimum	Maximum	With Hold Open Feature	Without Hold Open Feature
300	0.64 (.025)	1.52 (.060)	56-10-301-20	56-99-196-20
400	0.79 (.031)	3.18 (.125)	56-10-401-20	56-99-197-20

Installation tool



Series	X (Tool)	Tool Part Number
300	7.1 (.28)	56-0-22041-03
400	9.5 (.38)	56-0-22041-04

Other options available. For complete details on variety, part numbers, installation and specification, go to

www.southco.com/56



Request Info

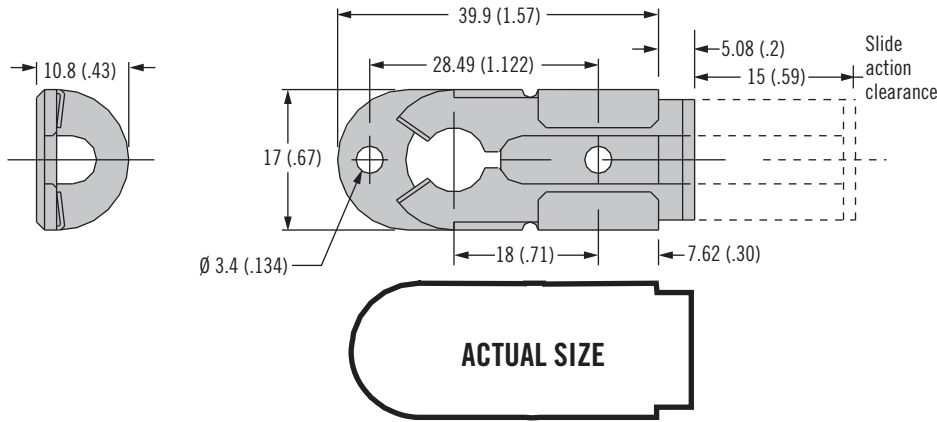


1-800-453-1692

www.aboveboardelectronics.com

TL Slide Latch

Steel · Slide to close

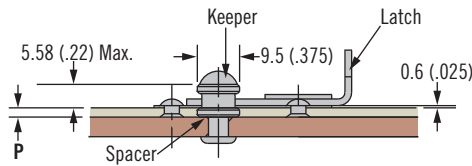


- Slide to secure
- Vibration dampening

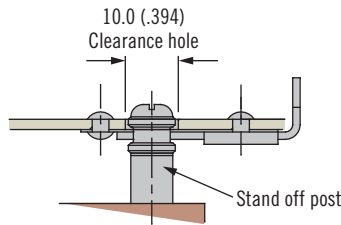
Material and Finish

Steel, zinc plated

Surface Mount



Concealed Mount

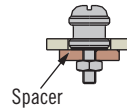


Panel Thickness	Required Number of Spacers
1.17 - 2.03 (.046 - .080)	None
2.05 - 3.25 (.081 - .128)	One
3.28 - 4.06 (.129 - .160)	Two

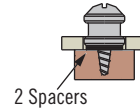
3.96 (.156)
Rivet



No.8
Screw & nut



No.8 RD. HD.
Wood screw



Inside diameter of keeper and spacer: 4.4 (0.17)

Dimensions in millimeters (inch) unless otherwise stated

Material	Latch		Keeper	Spacer
	Surface Mount	Concealed Mount		
Steel, zinc plated	TL-05-100-07	TL-05-110-07	TL-05-117-07	TL-05-114-07
Stainless Steel	TL-05-100-52	TL-05-110-52	TL-05-117-52	~

Part Number

See table

Other options available. For complete details on variety, part numbers, installation and specification, go to

www.southco.com/TL





19 Swell Action Latch

Plastic

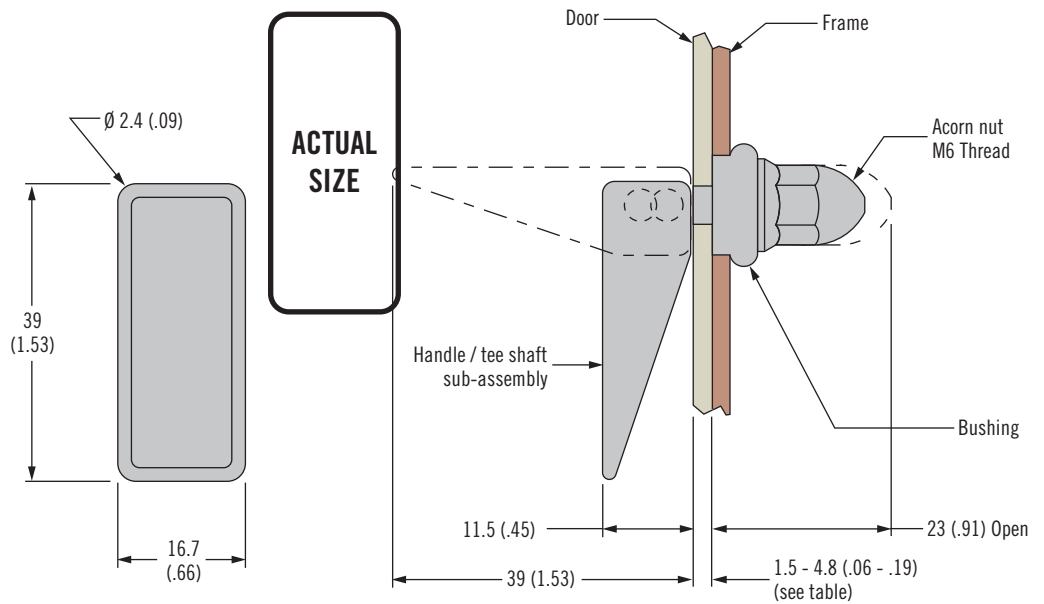
- Accommodates misalignment
- Vibration dampening

Material and Finish

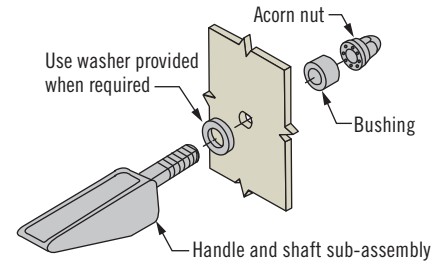
Nylon and glass-filled nylon black with SBR rubber bushing

Performance Details

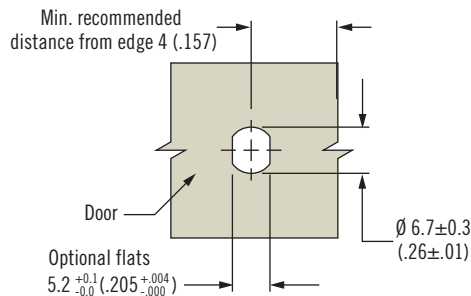
Frame thickness	Rated load (short term)
1.5 (.059)	400 N (90lbf)
2.5 (.098)	690 N (155lbf)
3.2 (.125)	620 N (140lbf)
4.8 (.190)	190 N (43lbf)



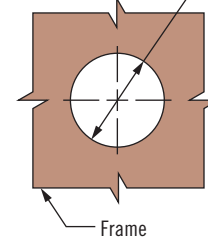
Door Thickness	Use Washer?	Adjustment Required
1.7±0.2 (.07±.01)	Yes	No
1.9 - 2.3 (.08 - .09)	Yes	Yes
2.5±0.2 (.10±.01)	No	No
2.7 - 4.8 (.11 - .19)	No	Yes



Dimensions in millimeters (inch) unless otherwise stated



Ø 13.7±0.3 (.54±.01) for frame thickness up to 3.2 (.13)
 Ø 14.1±0.3 (.56±.01) for frame thickness 3.2 - 4.8 (.13 - .19)



Part Number

See table

Part Number	Packaging
19-51-01	Components bulk packaged
19-54-01	1 Assembly per bag

Other options available. For complete details on variety, part numbers, installation and specification, go to

www.southco.com/19



Request Info

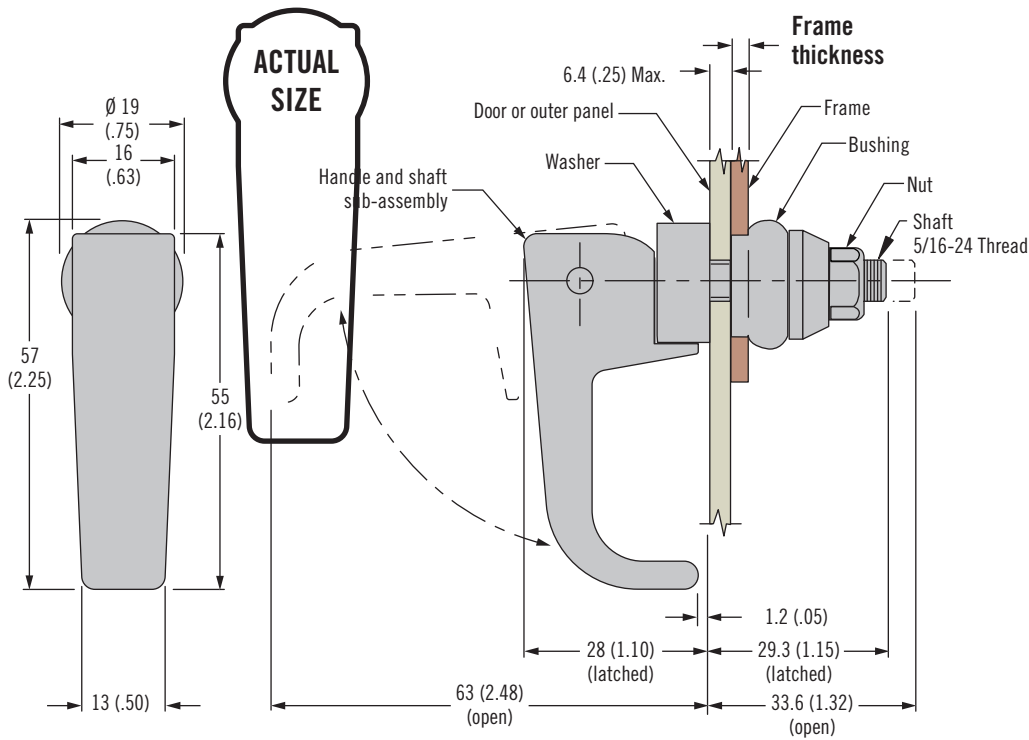


1-800-453-1692

www.aboveboardelectronics.com

19 Swell Action Latch

Stainless Steel · Zinc



- Accommodates misalignment
- Vibration dampening

Material and Finish

Zinc alloy, black powder coated, acetal and SBR rubber bushing

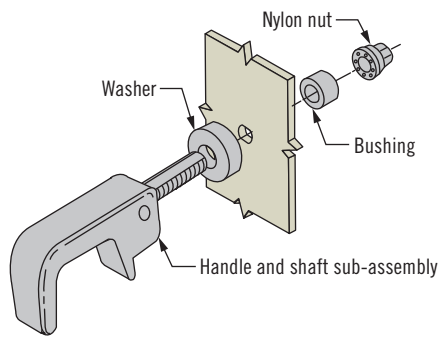
Stainless steel, natural or polished, acetal and SBR rubber bushing.

Performance Details

Frame thickness	Rated load (short term)
1.2 (.05) to 3.2 (.13)	330 N (75 lbf)
3.2 (.13) to 4.8 (.19)	660 N (150 lbf)
4.8 (.19) to 6.4 (.25)	550 N (125 lbf)
6.4 (.25) and Up	220 N (50 lbf)

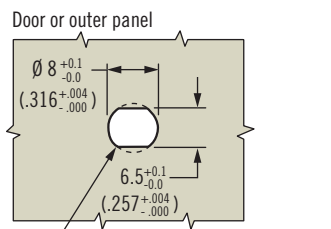
Installation Notes

Maximum tightening torque on mounting nut: 1.0 N·m (9 in·lbf)

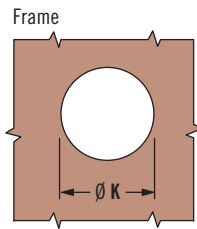


Frame Thickness	ϕK ^{+0.5 (.031)} _{-0.0 (.000)}
1.2 - 3.2 (.05 - .13)	19 (.750)
3.2 - 4.8 (.13 - .19)	19.5 (.766)
4.8 - 6.4 (.19 - .25)	20 (.781)
6.4 (.25) and up	20.5 (.797)

Dimensions in millimeters (inch) unless otherwise stated



Optional: Round hole installation.
Caution: Handle orientation will shift with use and loosen.



Part Number

See table

Material	Part Number	Finish
Zinc alloy	19-14-10	Black powder coated
Stainless Steel	19-14-23	Natural
Stainless Steel	19-14-24	Polished

Other options available. For complete details on variety, part numbers, installation and specification, go to

www.southco.com/19





19 Swell Action Latch

Plastic · Flush

- Flush low profile design
- Accommodates misalignment
- Vibration resistant

Material and Finish

Nylon black with stainless steel mounting bracket and SBR rubber bushing
Set tool: 1095 Steel, zinc plated

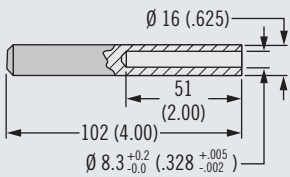
Performance Details

Series	Frame thickness	Rated load (short term)
19-83-10	0.5 - 3.2 (.016 - .13)	180 N (40lbf)
19-93-10	0.5 - 3.2 (.016 - .13)	440 N (100lbf)
	3.2 - 4.8 (.125 - .19)	330 N (75lbf)

Installation notes

Position bracket and retainer over stud and strike set tool. Adjust mounting nut to set latching tension.

Set tool



Tool part number: 17-10019-11

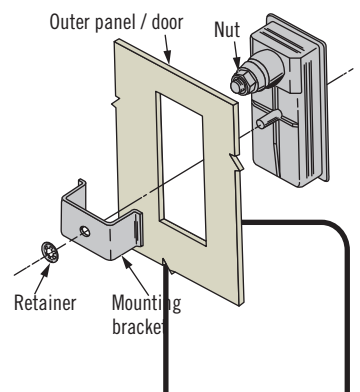
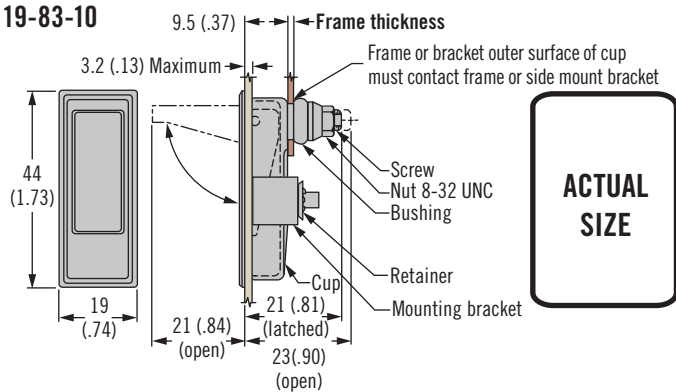
Part Number

See table

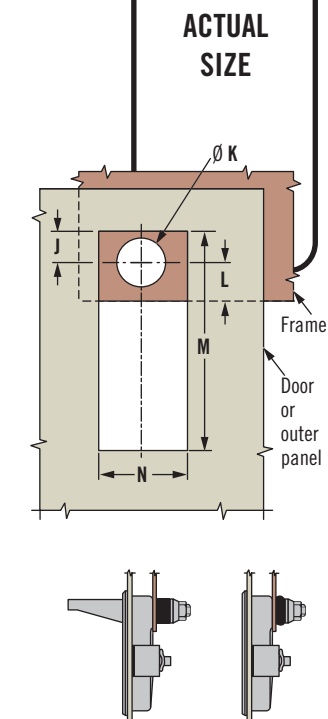
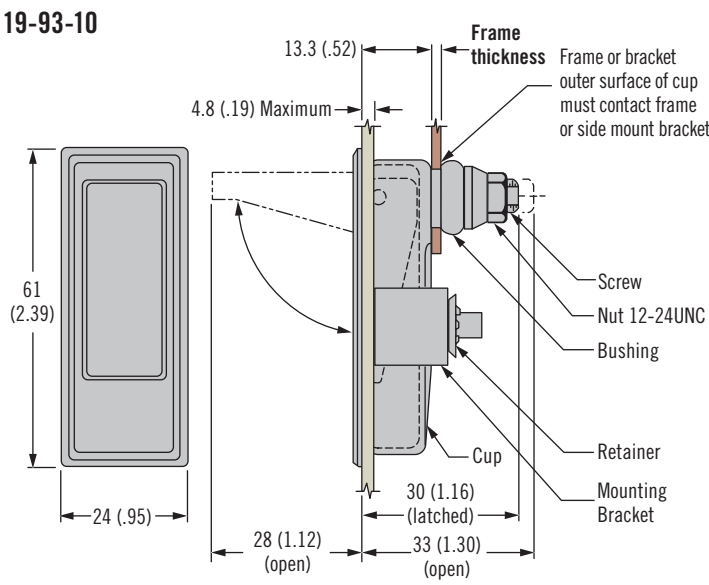
Other options available. For complete details on variety, part numbers, installation and specification, go to

www.southco.com/19

19-83-10



19-93-10



Dimensions in millimeters (inch) unless otherwise stated

Part Number	Max. Misalignment Between Centerlines of Panel Hole and Frame Hole	Frame or Bracket					Outer Panel / Door	
		Rated Load (Short Term)	Frame Thickness	J ± 0.3 (.010)	Ø K +0.5 (.020) -0.0 (.000)	L Max.	M	N
19-83-10	0.4 (.015)	180 N (40lbf)	3.2 (.13) Max.	6 (.234)	9.5 (.375)	11 (.45)	41.5 ^{+0.4} _{-0.0} (1.64 ^{+0.005} _{-0.0})	16.5 ^{+0.0} _{-0.4} (.640 ^{+0.0} _{-.005})
19-93-10	0.6 (.025)	440 N (100lbf)	Up to 3.2 (.13)	8 (.312)	13.5 (.531)	15 (.56)	57.5 ± .02 (2.265 ± .005)	20.5 ^{+0.4} _{-0.0} (.812 ^{+0.0} _{-.005})
	0.8 (.030)	330 N (75lbf)	3.2 - 4.8 (.13 - .19)		14 (.56)			



Request Info

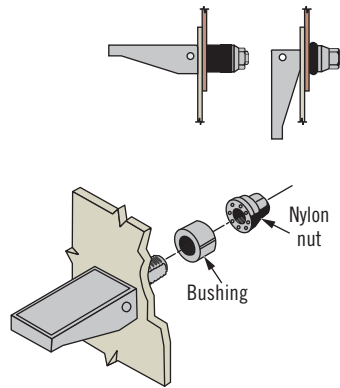
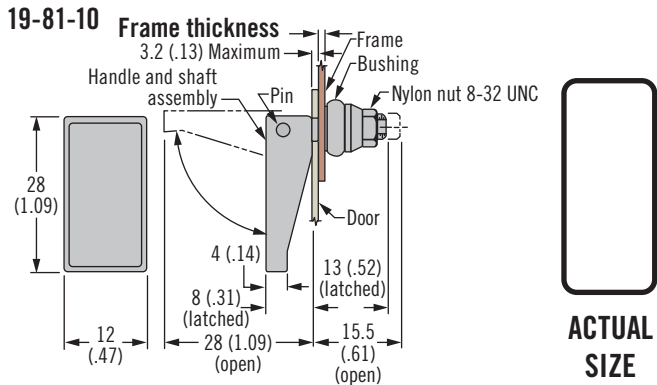


1-800-453-1692

www.aboveboardelectronics.com

19 Swell Action Latch

Plastic



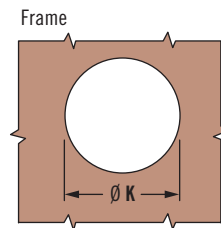
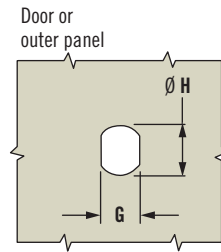
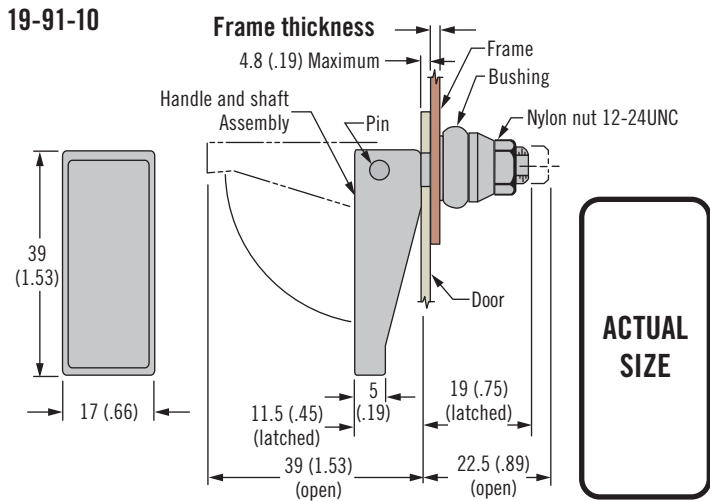
- Accommodates misalignment
- Vibration dampening

Material and Finish

Nylon and glass-filled nylon black with SBR rubber bushing

Performance Details

Series	Frame thickness	Rated load (short term)
19-81-10	0.5 - 3.2 (.016 - .13)	180 N (40lbf)
19-91-10	0.5 - 3.2 (.016 - .13)	440 N (100lbf)
	3.2 - 4.8 (.125 - .19)	330 N (75lbf)

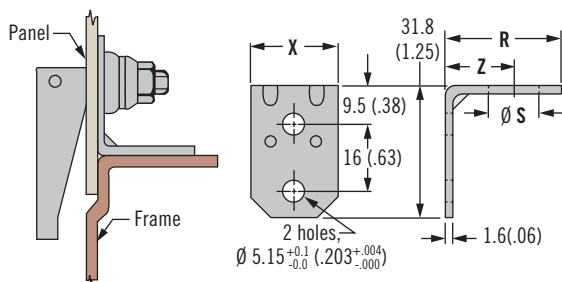


Installation notes

Maximum tightening torque on mounting nut: 1 N•m (9 in•lbf)

Part Number	G +0.1 (+.004) -0.0 (-.000)	H +0.1 (+.004) -0.0 (-.000)	Frame Thickness	K +0.5 (+.030) -0.0 (-.000)
19-81-10	3.3 (.130)	4.1 (.161)	3.2 (.13) Maximum	9.5 (.375)
19-91-10	4.5 (.177)	5.8 (.228)	Up to 3.2 (.13)	13.5 (.531)
			3.2 - 4.8 (.13 - .19)	14 (.547)

Accessories - Side mount bracket



Dimensions in millimeters (inch) unless otherwise stated

Part Number

See table

Latch Part Number	Ø S	R	X	Z	Bracket Part Number
19-81-10 and 19-83-10	9.5 (.38)	27 (1.06)	20.5 (.81)	16.7 (.66)	19-0-15666-11
19-91-10 and 19-93-10	13.5 (.53)				19-0-15665-11

Other options available. For complete details on variety, part numbers, installation and specification, go to

www.southco.com/19





NY NYLATCH Panel Fastener

Push / pull style

- Simple reusable panel fastener
- Multiple styles and sizes
- Non-conductive and non-corrosive materials

Material and Finish

Grommet: Polycarbonate, black or white, or polysulfone, black

Plunger: Nylon, black or white, or polyester, black

Performance Details

Ultimate shear load:

4.8 (3/16): 200 N (45 lbf)

6.4 (1/4): 330 N (75 lbf)

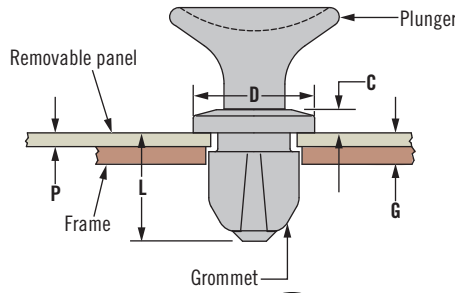
7.9 (5/16): 667 N (150 lbf)

Max. operating temperature:

85°C (185°F)

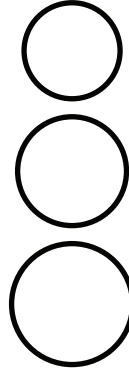
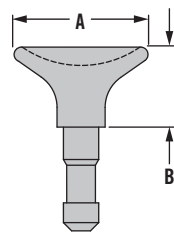
Flammability rating:

See part number selection

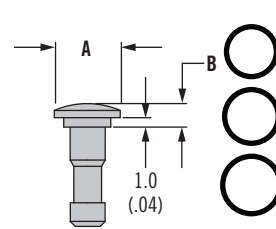


Head Style Code	Plunger Size					
	4.8 (3/16)		6.4 (1/4)		7.9 (5/16)	
	A	B	A	B	A	B
Easy Grip	12.7 (.50)	8.1 (.32)	14.4 (.57)	8.6 (.34)	16.0 (.63)	9.6 (.38)
Low Profile	6.6 (.26)	2.5 (.10)	7.1 (.28)	2.5 (.10)	7.6 (.30)	2.8 (.11)
Mini Grip	6.3 (.25)	6.6 (.26)	8.1 (.32)	7.1 (.28)	9.6 (.38)	7.6 (.30)

[H] Easy Grip

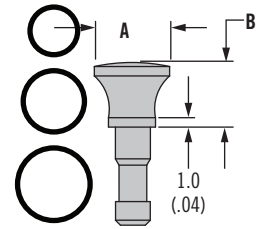


[H] Low Profile



ACTUAL SIZE

[H] Mini Grip



ACTUAL SIZE

3/16" Sizes \varnothing 4.8 (.188) ACTUAL SIZE

Sheet Capacity		Dimensions			Length Number	
G Range	P Max.	C Max.	L Max.	\varnothing D	[G] Grommet	[L] Plunger
1.4 - 3.9 (.056 - .153)	1.0 (.042)	1.6 (.065)	8.4 (.330)	6.5 (.255)	-31	-32
2.0 - 4.5 (.079 - .176)	1.6 (.065)	1.3 (.050)	8.8 (.346)		-32	-32
2.8 - 5.3 (.112 - .209)	2.5 (.098)		9.9 (.390)		-33	-33
3.9 - 6.3 (.152 - .249)	3.5 (.138)		10.9 (.430)		-34	-34

1/4" Sizes \varnothing 6.4 (.250)

Sheet Capacity		Dimensions			Length Number	
G Range	P Max.	C Max.	L Max.	\varnothing D	[G] Grommet	[L] Plunger
1.5 - 3.8 (.059 - .148)	1.0 (.042)	2.0 (.079)	9.4 (.371)	8.5 (.336)	-41	-42
2.1 - 4.4 (.084 - .173)	1.6 (.065)	1.6 (.064)	9.8 (.386)		-42	-42
3.0 - 5.3 (.118 - .207)	2.5 (.098)		10.9 (.430)		-43	-43
4.6 - 6.9 (.182 - .271)	4.1 (.162)		12.5 (.494)		-44	-44

Dimensions in millimeters (inch) unless otherwise stated

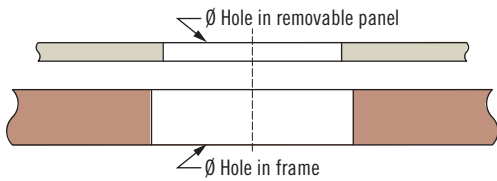
5/16" Sizes \varnothing 7.9 (.313)

Sheet Capacity		Dimensions			Length Number	
G Range	P Max.	C Max.	L Max.	\varnothing D	[G] Grommet	[L] Plunger
1.5 - 3.8 (.059 - .148)	1.0 (.042)	2.4 (.095)	9.4 (.371)	10.7 (.420)	-51	-52
2.1 - 4.4 (.084 - .173)	1.6 (.065)	2.0 (.080)	9.8 (.386)		-52	-52
3.0 - 5.3 (.118 - .207)	2.5 (.098)		10.9 (.430)		-53	-53
4.6 - 6.9 (.182 - .271)	4.1 (.162)		12.5 (.494)		-54	-54
5.8 - 8.1 (.230 - .319)	5.3 (.210)		13.8 (.542)		-55	-55



NY NYLATCH Panel Fastener

Push / pull style



Size	Ø Removable Panel Hole	Ø Frame Hole
4.8 (3/16)	4.57 - 4.65 (.180 - .183)	4.8 - 4.88 (.189 - .192)
6.4 (1/4)	6.04 - 6.15 (.238 - .242)	6.35 - 6.45 (.250 - .254)
7.9 (5/16)	7.47 - 7.59 (.294 - .299)	8.03 - 8.2 (.316 - .323)

Part Number Selection

Order grommet and plunger separately

Plunger and grommet size code must match

Grommet Part Number

S Size code

- 3 Ø 4.8 (.188)
- 4 Ø 6.4 (.250)
- 5 Ø 7.9 (.313)

M Material and finish

- 20 Polycarbonate (UL 94 V-2) black
- 10 Polycarbonate (UL 94 V-2) white
- 30 Polysulfone (UL 94 V-0) black

NY - **S** **G** - **G** - **M**

G Grommet length

Grommet length number
(See grommet and plunger tables on page 154)

Dimensions in millimeters (inch) unless otherwise stated

Plunger Part Number

S Size code

- 3 Ø 4.8 (.188)
- 4 Ø 6.4 (.250)
- 5 Ø 7.9 (.313)

M Material and finish

- 50 Nylon (UL 94 V-2) black
- 51 Nylon (UL 94 V-2) white
- 60 Polyester (UL 94 V-0) black

NY - **S** **P** - **L** - **H** - **M**

L Plunger length

Plunger length number
(See grommet and plunger tables on page 154)

H Head style

- 1 Easy grip
 - 3 Low profile
 - 4 Mini grip
- (Refer to the plunger length table for the head style availability)

