



E3 VISE ACTION® Compression Latch

Overview

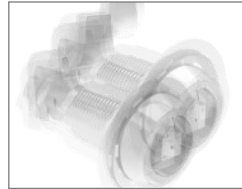
Versatility and simplicity in action

Southco's VISE ACTION® Compression Latches provide mechanical advantage, ensuring tight, vibration resistant door closure to seal out water and dust, while allowing easy access with a choice of key and tool security options. The smooth operation of the VISE ACTION® design aligns the cam behind the frame and draws it up tight with a single continuous half-turn motion.



Environmental Sealing

Provides consistent compression to seal out water and dust



Vibration Resistant

Helps reduce or eliminate noise and rattles caused by vibration



Secure Access

Many tool and key access styles restrict access and discourage vandalism



Simple Operation

Continuous half-turn motion aligns the cam and pulls the latch tight



User Friendly

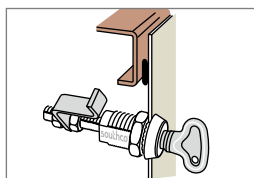
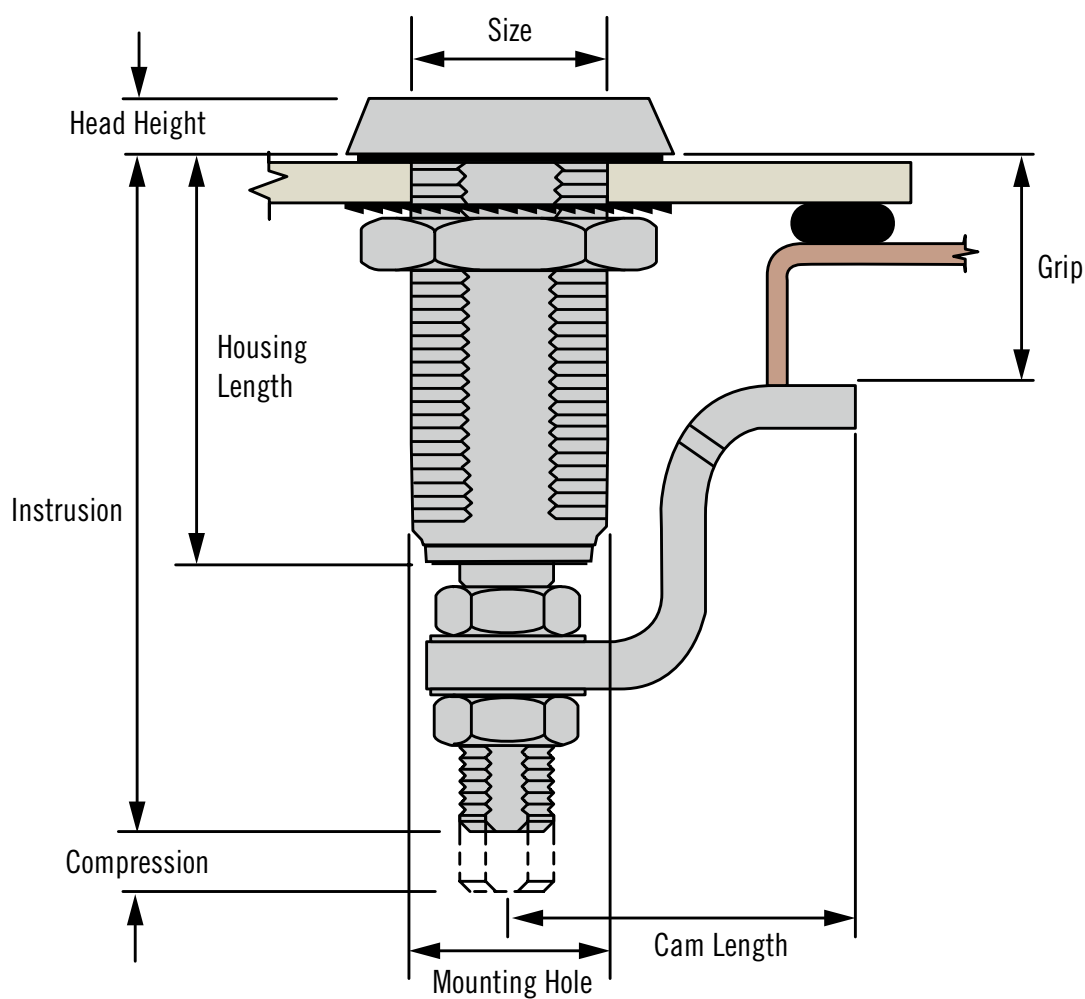
Easy-to-grip knob and handle-actuated styles for quick, simple access



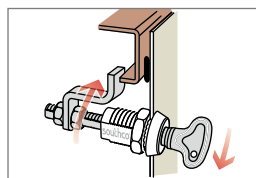
Customizable

Variety of shapes and sizes to accommodate different door/panel thickness

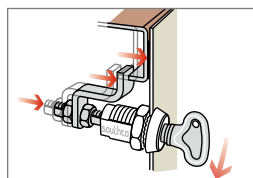
Technical Specifications



First 90° turn:
Cam rotates behind frame



The door is now **latched**
against opening



Completing the half-turn
motion, the shaft and cam
compress to pull the door
against the frame

Available Options

Material

Zinc, stainless steel, aluminum

Finish

Powder coating, chrome plating,
anodizing, passivation,
electropolishing

Grips

Fixed, adjustable

Size

Small (13.5mm mounting hole),
large (19.1mm mounting hole)

Rotation

Turn clockwise to latch,
turn counter-clockwise to latch

Access Restriction

None, tool, key locking, padlockable

Compliance Specifications

NEMA4, IP65/69K, UL, EN 44545-3,
DIN EN 1672-2, DIN EN61373



E3 VISE ACTION® Compression Latch

Zinc housing · Tool or hand operated
Fixed or adjustable grip · 19.1mm size

- Consistent pre-set compression
- Tool operated for security
- EN 45545-3 E10 Compliant

Material and Finish

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

Performance Details

Compression: 6.4 mm (.25 in)

Maximum static load:

Adjustable Grip: 450 N (100 lbf)

Fixed Grip: 300 N (67lbf)

Sealing Notes

NEMA 4 and IP65 enabled by using optional flange gasket (part number E5-17)

Installation Notes

Recommended tightening torque for the mounting nut is 20 N-m (176 in-lbf)

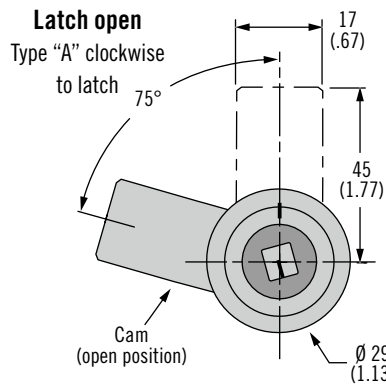
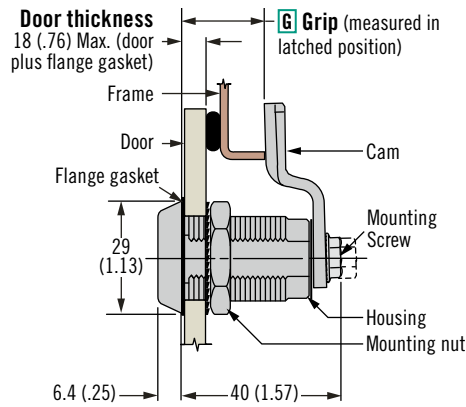
Adjustable Grip: Position cam so latching function can be achieved comfortably by hand.

Fixed Grip: Mounting screw torque 10 N-m (88 in-lbf)

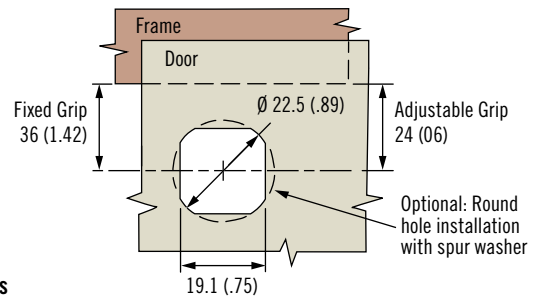
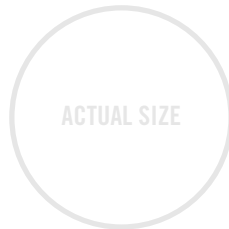
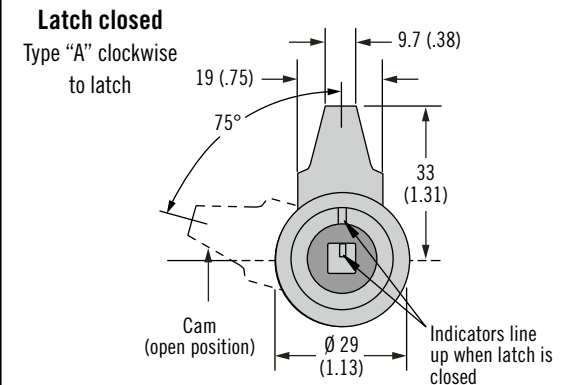
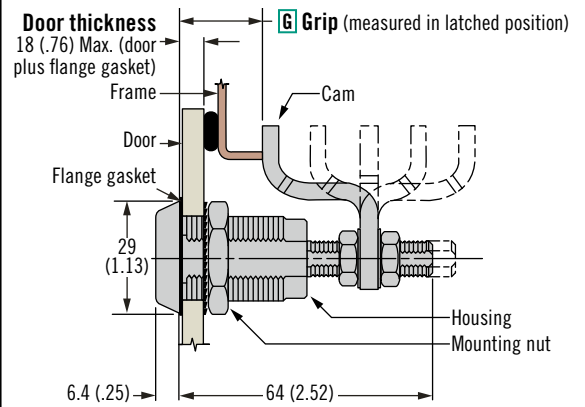
Keys and Accessories

See pages 118-121

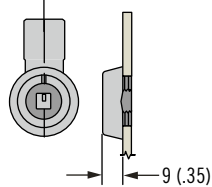
FIXED GRIP



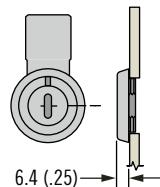
ADJUSTABLE GRIP



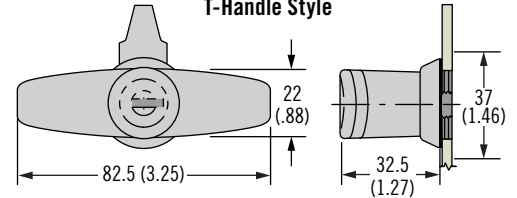
Railway Standard - Bellcore 216



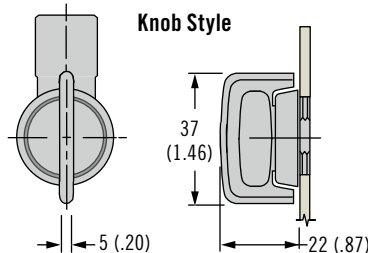
Other tool head styles (Slotted recess shown)



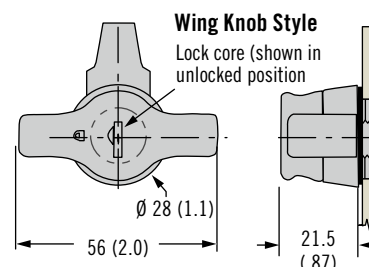
T-Handle Style

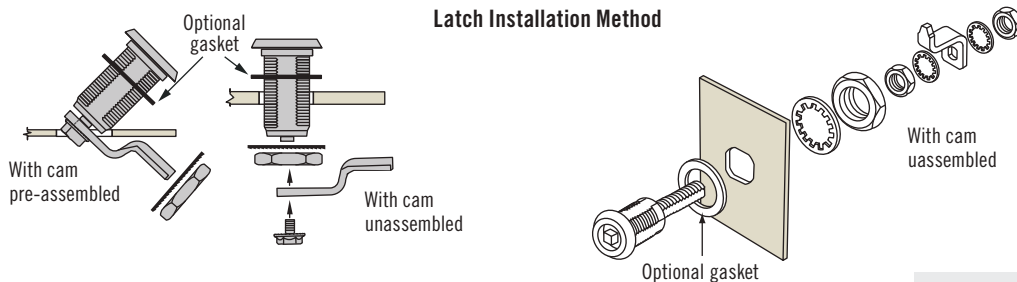


Knob Style



Wing Knob Style





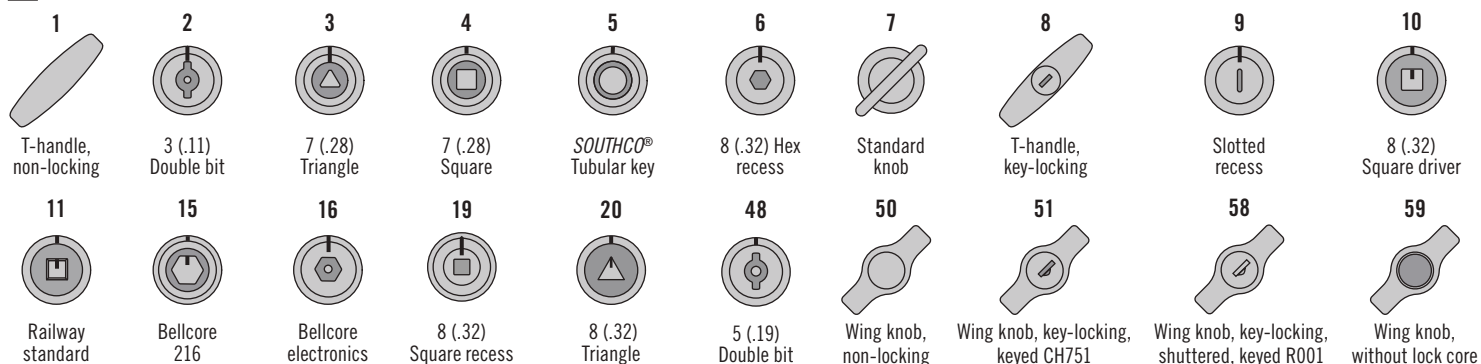
Part Number Selection

E3 - R H - G F

F Finish

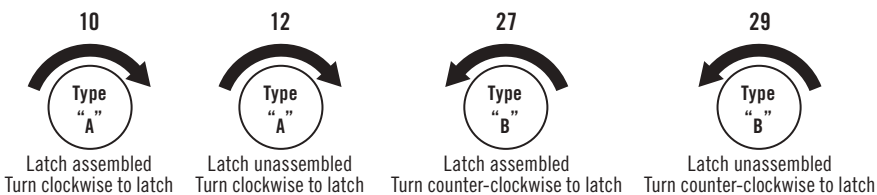
- 1 Chrome plated
- 5 Black powder coated
- 7 Silver powder coated

H Head Styles



FIXED GRIP

R Rotation

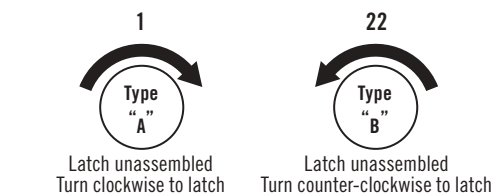


G Grip Table					
Total Grip	G	Maximum Door Thickness with Cam Preassembled	Total Grip	G	Maximum Door Thickness with Cam Preassembled
15 (.59)	00	Use unassembled	35 (1.38)	10	7 (.28)
17 (.67)	01	Use unassembled	37 (1.46)	11	
19 (.75)	02	1 (.04)	39 (1.53)	12	
21 (.83)	03	2 (.08)	41 (1.61)	13	
23 (.91)	04	4 (.16)	43 (1.69)	14	
25 (.98)	05	5 (.20)	45 (1.77)	15	
27 (1.06)	06	6 (.24)	47 (1.85)	16	
29 (1.14)	07	7 (.28)	49 (1.93)	17	7 (.28)
31 (1.22)	08		51 (2.01)	18	
33 (1.30)	09		53 (2.09)	19	

For Fixed Grip, if your grip is between two options choose the smaller grip

ADJUSTABLE GRIP

R Rotation



G Grip Table			
G Grip	Minimum	Maximum	Cam Type
1	11.4 (.45)	27.2 (1.07)	Deep offset cam, forward
	66.3 (2.61)	76.2 (3.00)	Deep offset cam, reversed
2	25.4 (1)	41.1 (1.62)	Offset cam, forward
	52.6 (2.07)	68.3 (2.69)	Offset cam, reversed
3	38.9 (1.53)	54.6 (2.15)	Straight cam

Dimensions in millimeters (inch) unless otherwise stated



E3 VISE ACTION® Compression Latch

Zinc housing · Tool operated

Compact · Fixed or adjustable grip · 19.1mm size

- Minimal panel intrusion
- Consistent pre-set compression
- Tool operated for security
- EN 45545-3 E10 Compliant

Material and Finish

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

Performance Details

Compression: 6.4 mm (.25 in)

Maximum static load:

Adjustable Grip: 450N (100 lbf)

Fixed Grip: 300N (67lbf)

Sealing Notes

NEMA 4 and IP65 enabled by using supplied flange gasket

Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf)

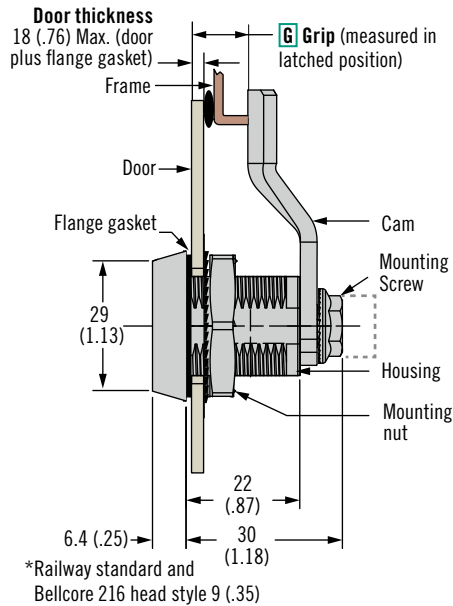
Adjustable Grip: Position cam so latching function can be achieved comfortably by hand.

Fixed Grip: Mounting screw torque 10 N·m (88 in·lbf)

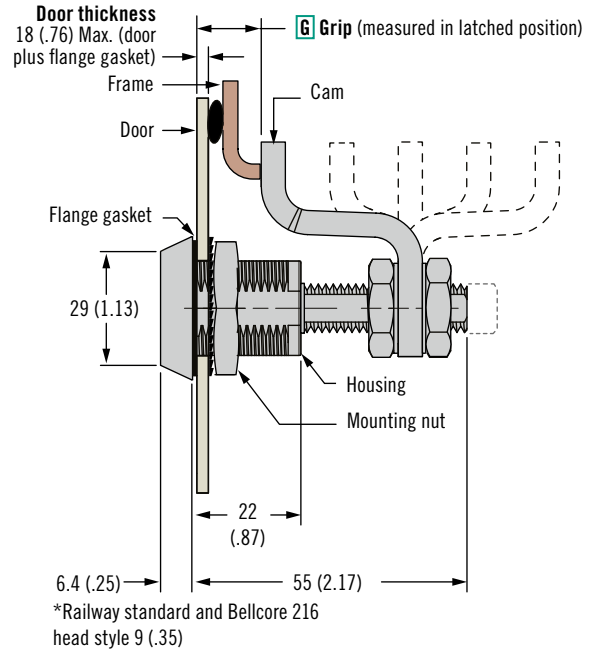
Keys and Accessories

See pages 118-121

FIXED GRIP

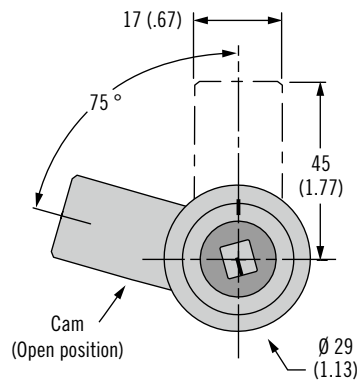


ADJUSTABLE GRIP



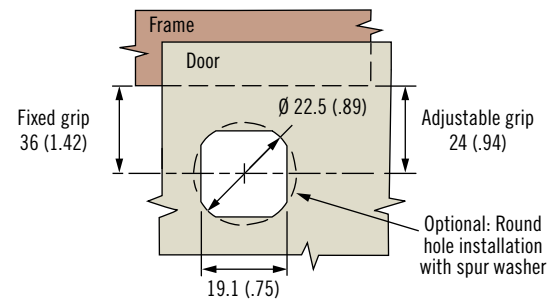
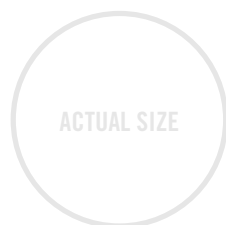
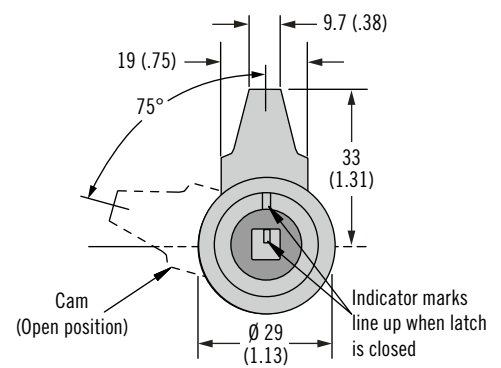
Latch open

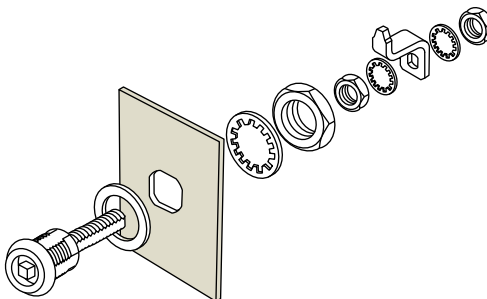
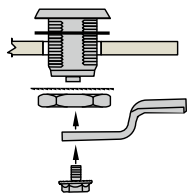
Type "A" clockwise to latch



Latch closed

Type "A" clockwise to latch





FIXED GRIP

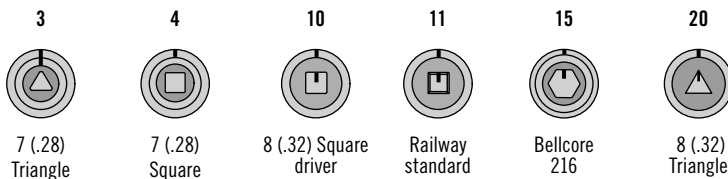
E3 - C R H - UU F

ADJUSTABLE GRIP

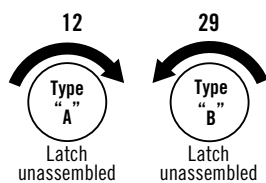
E3 - C R H - O F

- F** Finish
 1 Chrome plated
 5 Black powder coated
 7 Silver powder coated

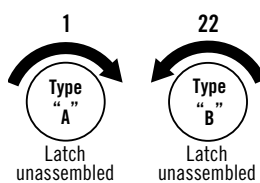
H Head Styles



R Rotation



R Rotation



Part Number Selection

Rotation Option

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

Cam Part Number (order separately from latch)			
Grip	Part Number	Grip	Part Number
4 (.16)	E5-2500	24 (.94)	E5-2510
6 (.24)	E5-2501	26 (1.02)	E5-2511
8 (.31)	E5-2502	28 (1.10)	E5-2512
10 (.39)	E5-2503	30 (1.18)	E5-2513
12 (.47)	E5-2504	32 (1.26)	E5-2514
14 (.55)	E5-2505	34 (1.34)	E5-2515
16 (.63)	E5-2506	36 (1.42)	E5-2516
18 (.71)	E5-2507	38 (1.50)	E5-2517
20 (.79)	E5-2508	40 (1.57)	E5-2518
22 (.87)	E5-2509	42 (1.65)	E5-2519

Minimum Grip	Maximum Grip	Cam Type	Part Number
3.3 (.13)	14.7 (.58)	Deep offset cam, forward	E3-28-201-12
56.6 (2.23)	66.6 (2.62)	Deep offset cam, reversed	
14.6 (.57)	30.3 (1.19)	Offset cam, forward	E3-28-202-12
42 (1.65)	57.7 (2.27)	Offset cam, reversed	
28.2 (1.13)	44.5 (1.75)	Straight cam	E3-28-203-12

See table
 Order latch and cam separately.
 Select grip from Cam table if your grip is between two options choose the smaller grip





E3 VISE ACTION® Compression Latch

Zinc housing · Tool or hand operated
Adjustable grip · 13.5mm size

- Reduced dimensions
- Consistent pre-set compression
- Easy grip adjustment
- Tool operated for security
- EN 45545-3 E10 Compliant

Material and Finish

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

Performance Details

Compression: 4.3 mm (.17 in)
Maximum static load: 330 N (75 lbf)

Sealing Notes

NEMA 4 and IP65 enabled by using optional flange gasket (part number E3-0-30268-02)

Installation Notes

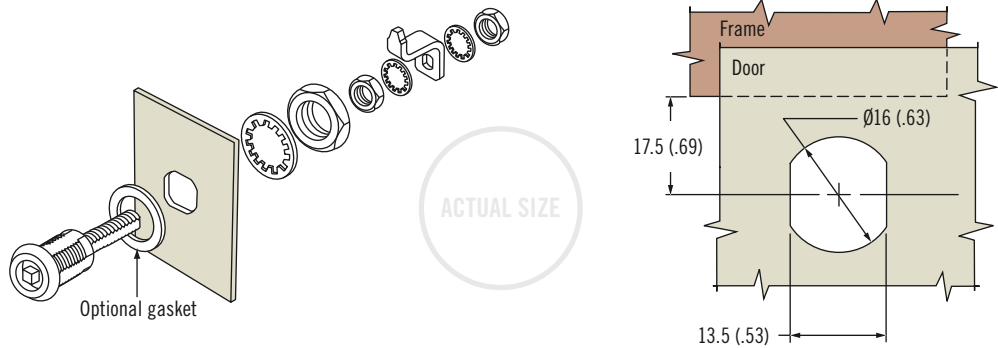
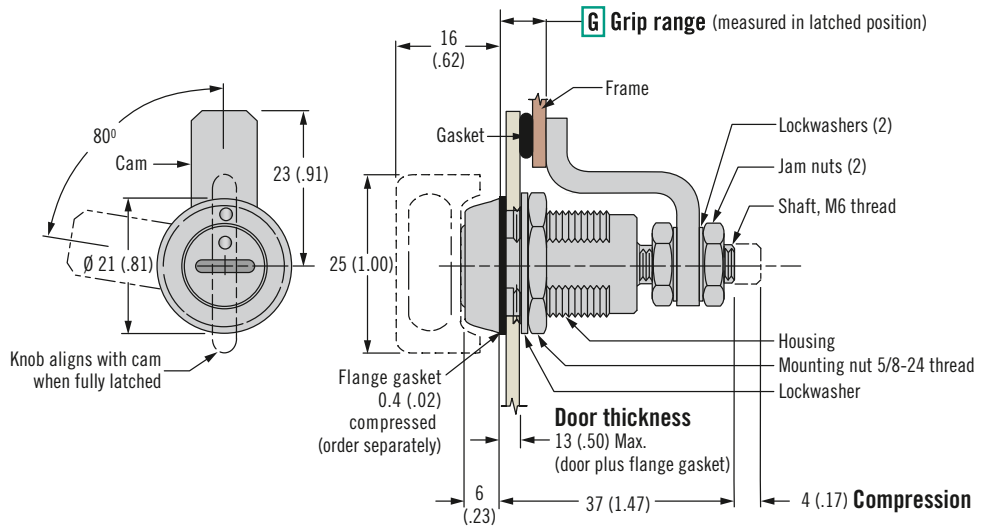
Recommended tightening torque for the mounting nut is 20 N·m (176 in-lbf)
Position cam so latching function can be achieved comfortably by hand.

Keys & Accessories

See pages 118-121

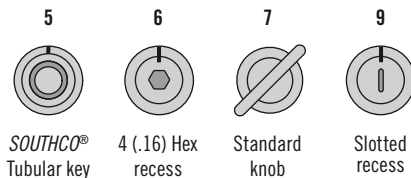
Part Number Selection

See table



E3 - R H - G F

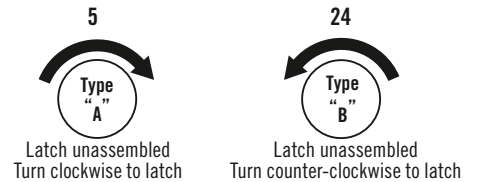
H Head Styles



F Finish

- 1 Chrome plated
- 5 Black powder coated
- 7 Silver powder coated

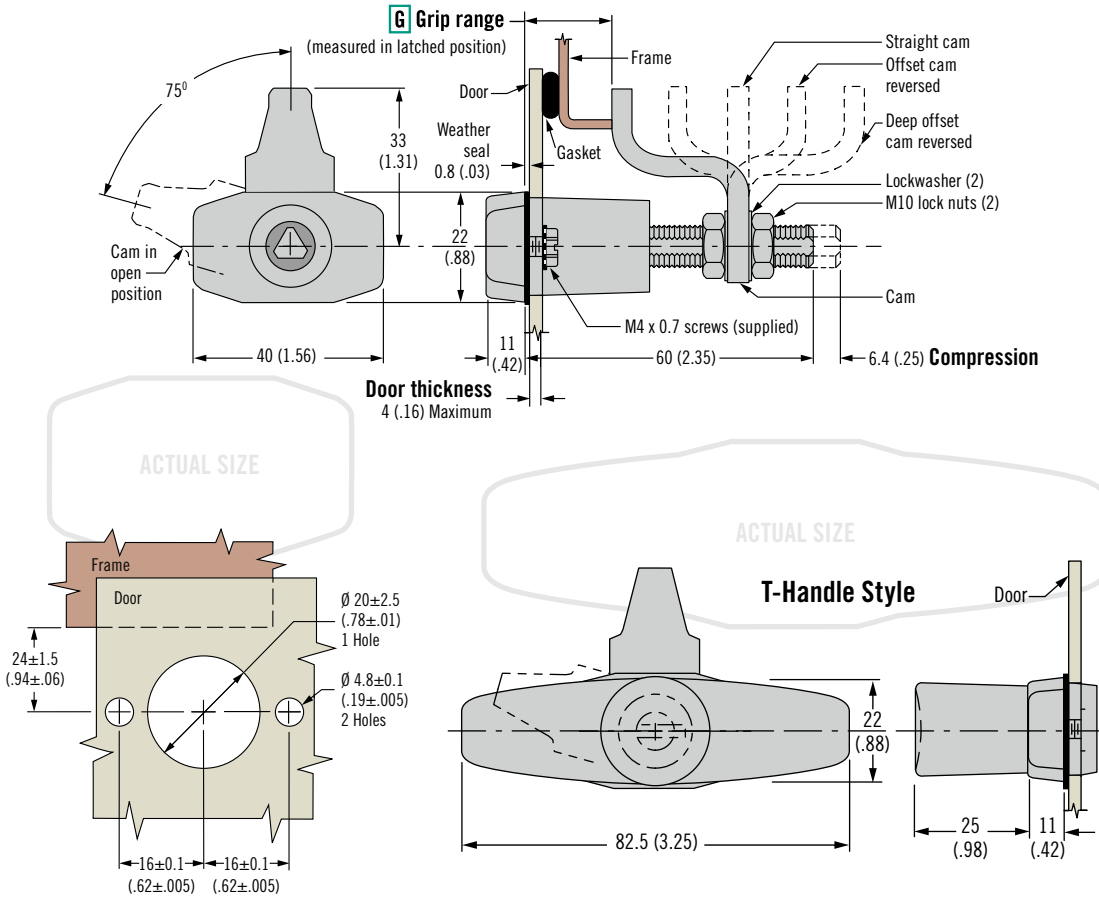
R Rotation



G Grip	Minimum	Maximum
1	3.2 (.13)	6.4 (.25)
2	6.4 (.25)	9.5 (.37)
3	9.5 (.37)	12.7 (.50)
4	12.7 (.50)	15.9 (.63)
5	15.9 (.63)	19 (.75)
6	19 (.75)	22.2 (.87)
7	22.2 (.87)	25.4 (1)
8	25.4 (1)	28.6 (1.13)

E3 VISE ACTION® Compression Latch

Zinc housing · Tool or hand operated
Three hole mount · Adjustable grip · 19.1mm size



- For thick panel or soft material
- Consistent pre-set compression
- Easy grip adjustment
- Simplified round hole prep
- Tool operated for security

Material and Finish

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

Performance Details

Compression: 6.4 mm (.25 in)
Maximum static load: 450 N (100 lbf)

Installation Notes

For door thickness greater than 4 (.16) calculate screw length using the following formula:
Door thickness + 6 (.24)

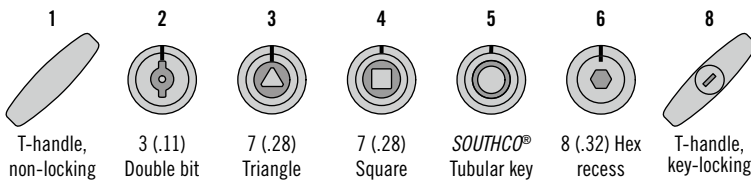
Keys and Accessories

See pages 118-121

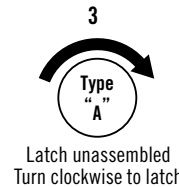
Part Number Selection

E3 - R H - G F

H Head Styles



R Rotation



G Grip	Minimum	Maximum	Cam Type
1	7.9 (.31)	23.6 (.93)	Deep offset cam, forward
	62.7 (2.47)	76.2 (3.00)	Deep offset cam, reversed
2	21.8 (.86)	37.3 (1.47)	Offset cam, forward
	49 (1.93)	64.8 (2.55)	Offset cam, reversed
3	35.3 (1.39)	50.8 (2.00)	Straight cam

F Finish

- 1 Chrome plated
- 5 Black powder coated
- 7 Silver powder coated



E3 VISE ACTION® Compression Latch

Zinc housing · Tool operated

Flush · Fixed grip · 22.0mm size

- Completely flush outer surface
- Consistent pre-set compression
- Designed for thicker panels such as wood
- Tool operated for security

Material and Finish

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

Performance Details

Compression: 6.4 mm (.25 in)

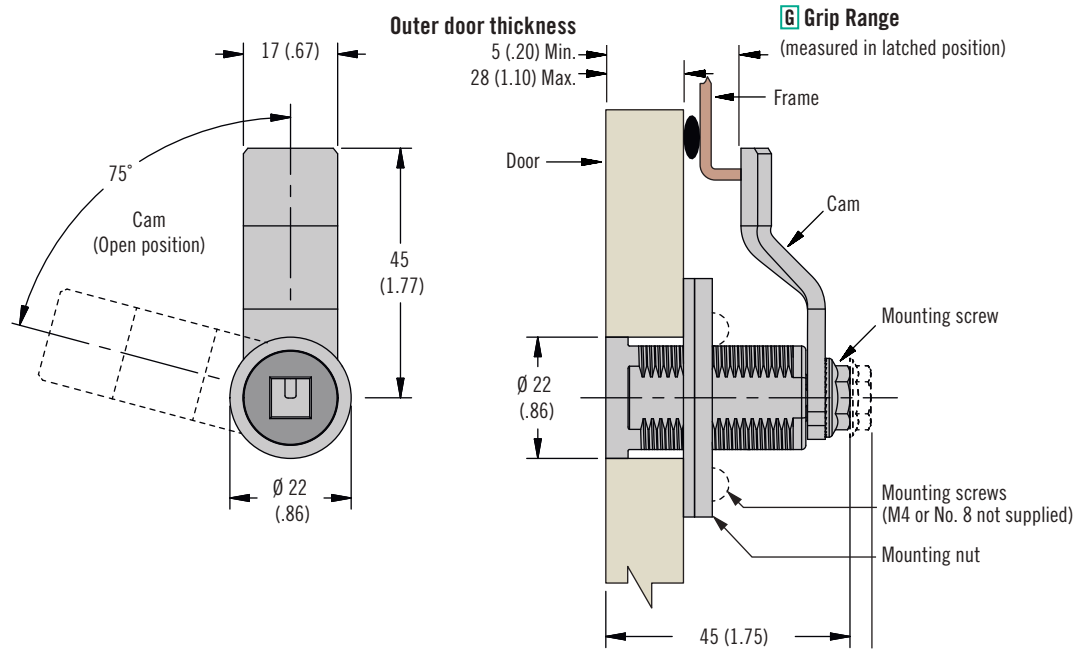
Maximum static load: 300 N (67 lbf)

Installation Notes

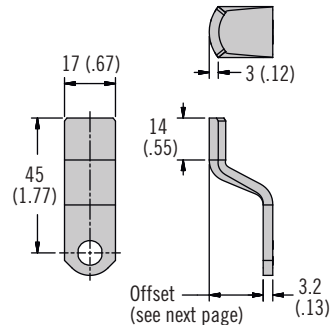
1. Insert the latch through the rear of the door. Place the mounting washer then the mounting nut onto the latch.
2. Adjust mounting nut so that the head of the latch is flush with the outside of the door. The holes in the washer and the nut must be aligned. The latch must be aligned to the latching position. Southco recommends using a minimum of three mounting screws in a pattern shown. Recommended tightening torque for pawl mounting screw is 10 N-m (88.5 in-lbf).

Keys & Accessories

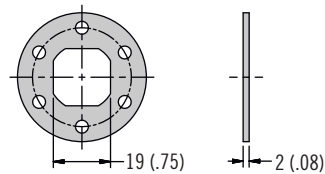
See pages 118-121



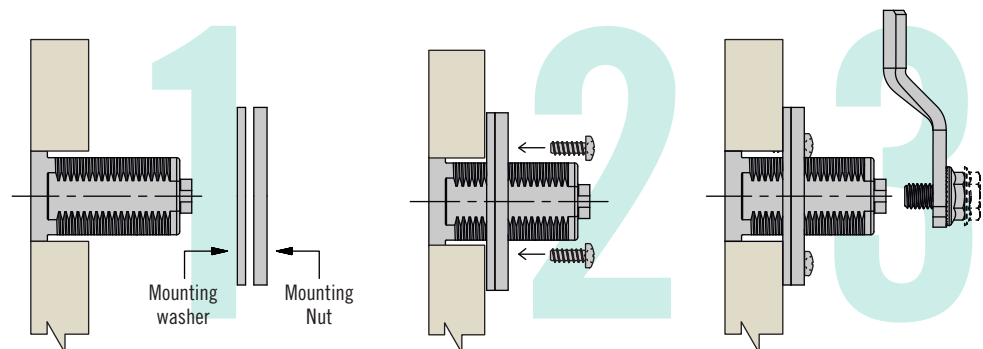
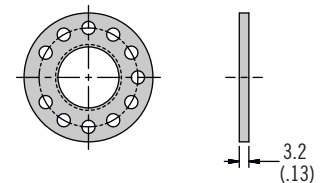
Cam Detail

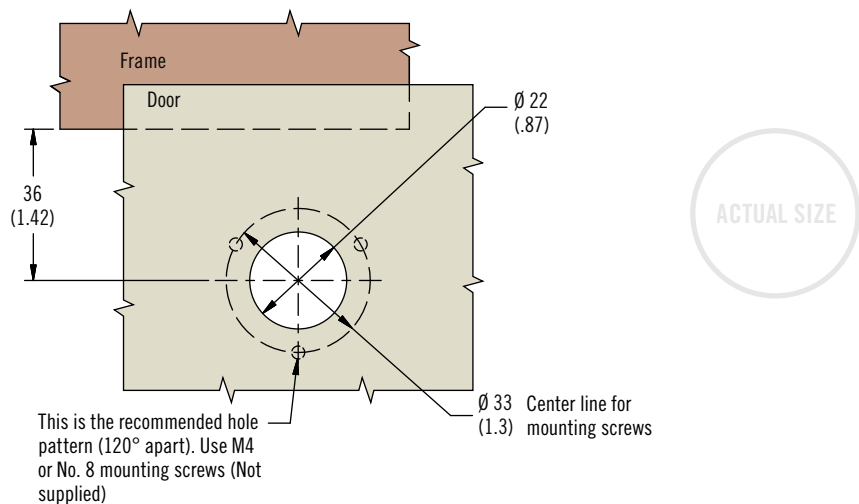


Mounting Washer



Mounting Nut





Part Number Selection








See table

Select grip from table. If your grip is between two options choose the smaller grip

Latches are individually packaged. For layer packaged latches (50 pieces minimum, sold in multiples of 50) add -13 to the part number. Example: E3-1410-XX1-13

*10 (.375) Hex key not available from Southco

H Head Styles

- | | | | | | | |
|--|--|---|---|--|--|--|
| 3

7 (.28)
Triangle | 4

7 (.28)
Square | 6

8 (.32) Hex recess | 10

8 (.32) Square driver | 11

Railway standard | 18

10 (.37) Hex | 20

8 (.32) Triangle |
|--|--|---|---|--|--|--|

E3 - 14 H - G F

F Finish

- 1 Chrome plated
- 5 Black powder coated
- 7 Silver powder coated

G Grip			
Total Grip	G	Total Grip	G
19 (.75)	00	39 (1.53)	10
21 (.83)	01	41 (1.61)	11
23 (.91)	02	43 (1.69)	12
25 (.98)	03	45 (1.77)	13
27 (1.06)	04	47 (1.85)	14
29 (1.14)	05	49 (1.93)	15
31 (1.30)	06	51 (2.01)	16
33 (1.30)	07	53 (2.09)	17
35 (1.38)	08	55 (2.17)	18
37 (1.46)	09	57 (2.24)	19



E3 VISE ACTION® Compression Latch

Zinc housing · Tool operated

Visual Indicator of latch status · Fixed or Adjustable grip · 19.1mm size



- Feature indicates when latch is open
- Consistent pre-set compression
- EN 45545-3 E10 Compliant

Material and Finish

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

Performance Details

Adjustable Grip: Maximum static load: 450 N (100lbf)

Fixed Grip: Maximum static load: 450 N (100lbf)

Sealing Notes

NEMA 4 / IP65 enabled by using supplied flange gasket

Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf).

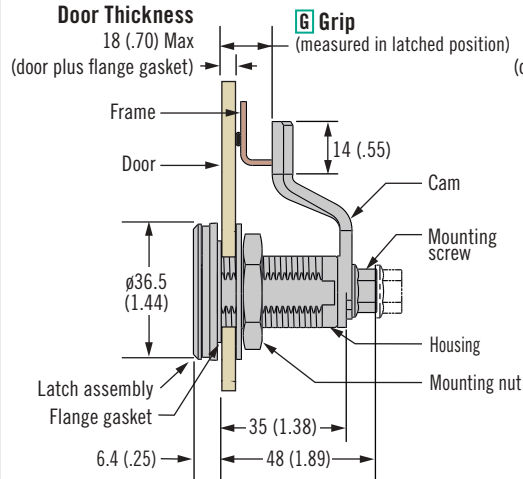
Adjustable Grip: Position cam so latching function can be achieved comfortably by hand.

Fixed Grip: Mounting screw torque 10 N·m (88 in·lbf)

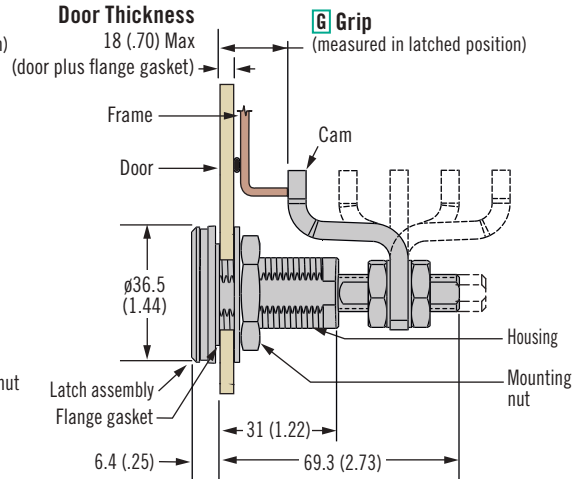
Keys and Accessories

See pages 118-121

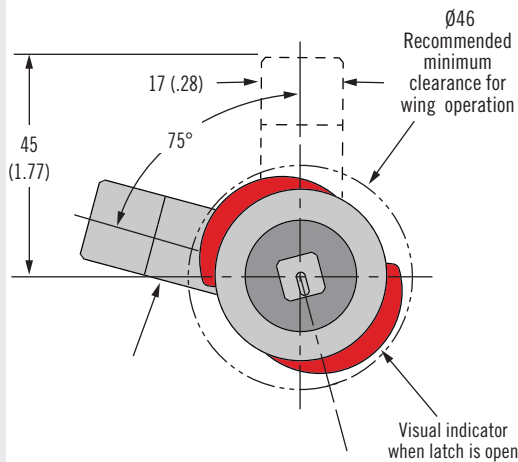
FIXED GRIP



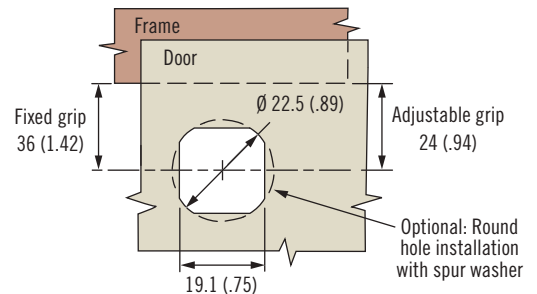
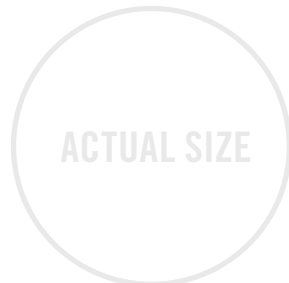
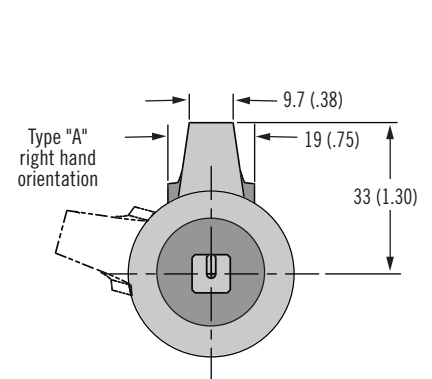
ADJUSTABLE GRIP



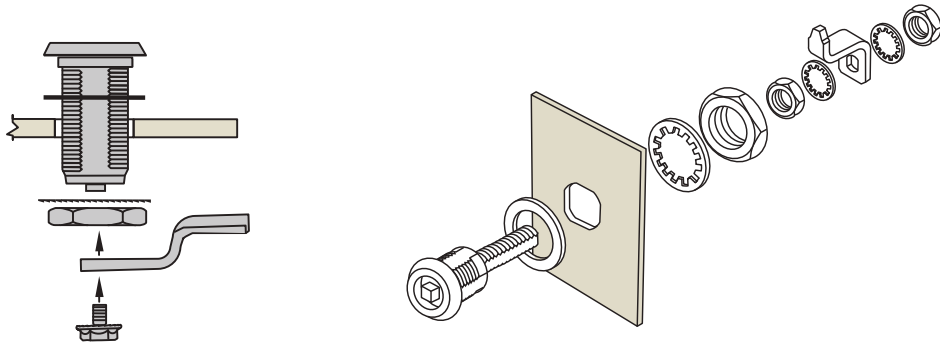
Latch Open



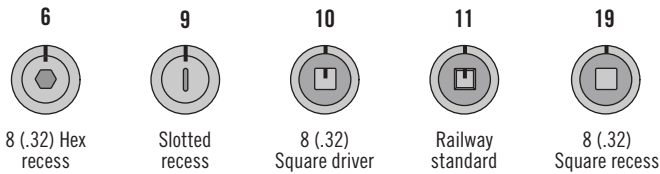
Latch Closed



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H Head Styles

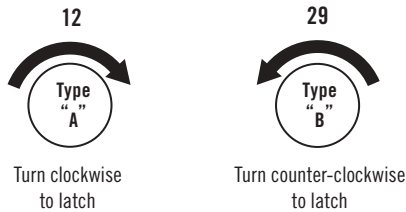


F Finish

- 1 Chrome plated
- 5 Black powder coated
- 7 Silver powder coated

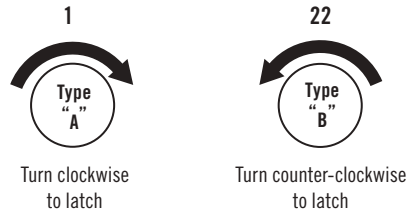
FIXED GRIP

R Rotation



ADJUSTABLE GRIP

R Rotation



E3 - A R H - UU F

E3 - A R H - O F

Part Number Selection

See table
 Order Latch and Cam separately
 Select grip from Cam table.
 For Fixed Grip, if your grip is
 between two options choose the
 smaller grip

Cam Part Number (order separately from latch)			
Grip	Part Number	Grip	Part Number
15 (.59)	E5-2500	35 (1.38)	E5-2510
17 (.67)	E5-2501	37 (1.46)	E5-2511
19 (.75)	E5-2502	39 (1.53)	E5-2512
21 (.83)	E5-2503	41 (1.61)	E5-2513
23 (.91)	E5-2504	43 (1.69)	E5-2514
25 (.98)	E5-2505	45 (1.77)	E5-2515
27 (1.06)	E5-2506	47 (1.85)	E5-2516
29 (1.14)	E5-2507	49 (1.93)	E5-2517
31 (1.22)	E5-2508	51 (2.01)	E5-2518
33 (1.30)	E5-2509	53 (2.09)	E5-2519

Cam Part Number (order separately from latch)			
Minimum Grip	Maximum Grip	Cam Type	Part Number
11.4 (.45)	27.2 (1.07)	Deep offset cam, forward	E3-28-201-12
66.3 (2.61)	76.2 (3.00)	Deep offset cam, reversed	
25.4 (1.00)	41.1 (1.62)	Offset cam, forward	E3-28-202-12
52.6 (2.07)	68.3 (2.69)	Offset cam, reversed	
38.9 (1.53)	54.6 (2.15)	Straight cam	E3-28-203-12





E3 VISE ACTION® Compression Latch

Stainless steel housing · Tool operated
Fixed or adjustable grip · 19.1mm size



- Consistent pre-set compression
- Premium finish
- Corrosion resistance
- Tool operated for security
- EN 45545-3 E60 Compliant

Material and Finish

Stainless steel 304 and 316

Performance Details

Compression: 6.4 mm (.25 in)

Maximum static load:

Adjustable Grip: 600 N (136 lbf)

Fixed Grip: 450 N (100 lbf)

Sealing Notes

NEMA 4 and IP66/IP67 enabled by using supplied flange gasket

Installation Notes

Recommended tightening torque for the mounting nut is

20 N·m (176 in-lbf)

Adjustable Grip: Position cam so latching function can be achieved comfortably by hand.

Fixed Grip: Mounting screw torque 10 N·m (88 in-lbf)

Keys and Accessories

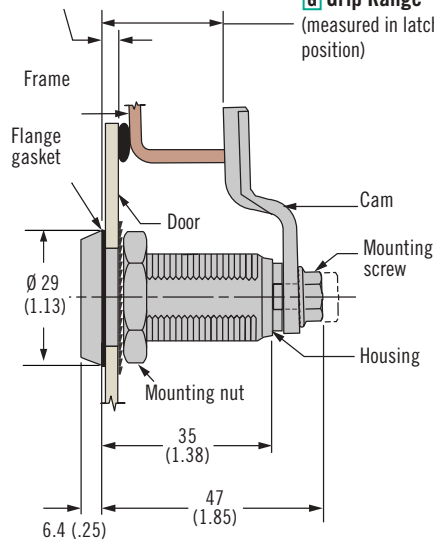
See pages 118-121

FIXED GRIP

Door thickness

18 (.71), latch unassembled.
(door plus flange gasket)

G Grip Range
(measured in latched position)

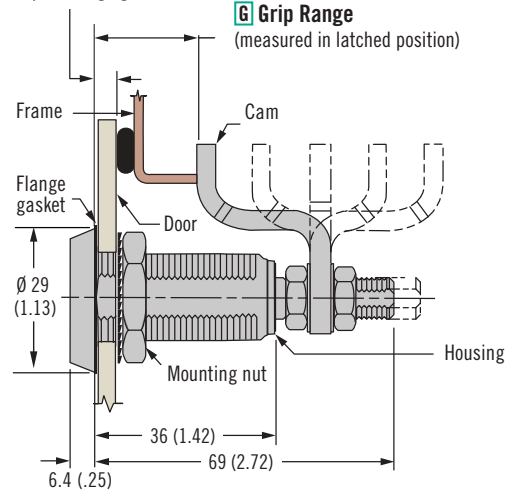


ADJUSTABLE GRIP

Door thickness

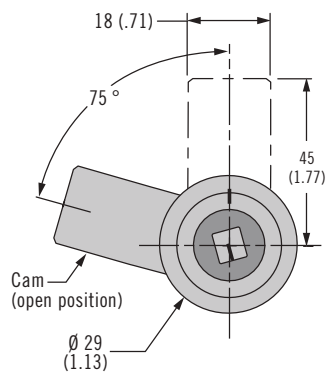
18 (.71), latch unassembled.
(door plus flange gasket)

G Grip Range
(measured in latched position)



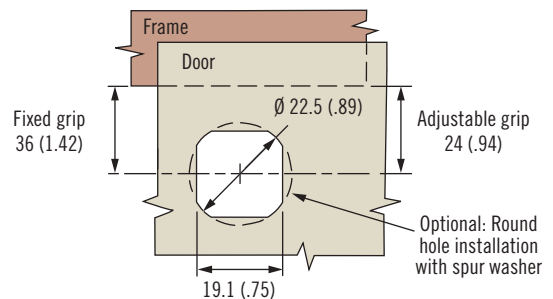
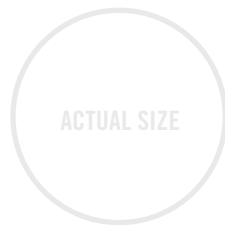
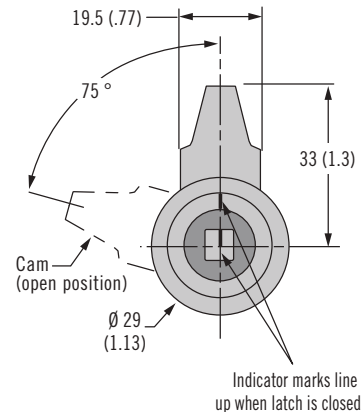
Latch open

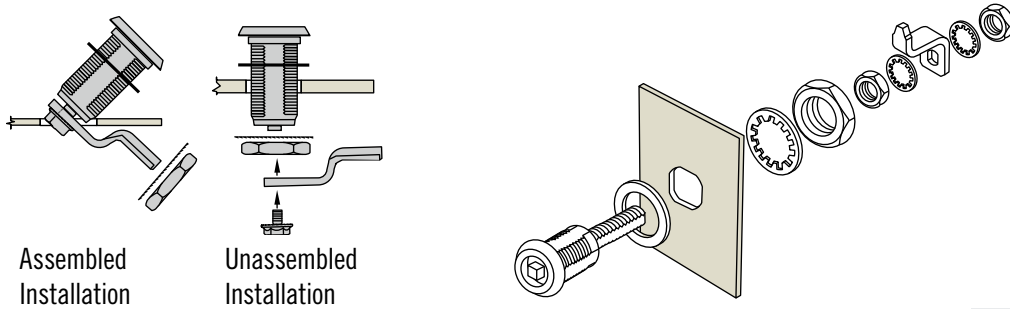
Type "A" clockwise to latch



Latch closed

Type "A" clockwise to latch

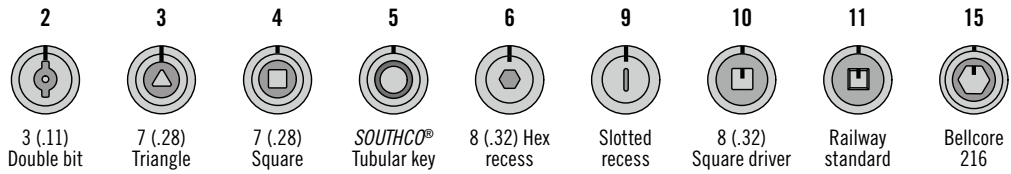




Part Number Selection

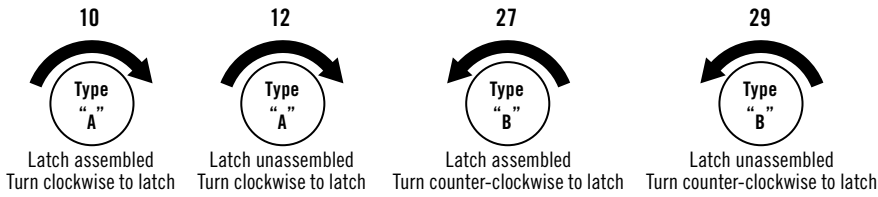
E3 - R H - G O

H Head Styles



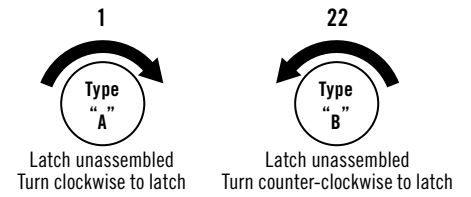
FIXED GRIP

R Rotation



ADJUSTABLE GRIP

R Rotation



G Grip Table					
Total Grip	G	Max. Door Thickness for Assembled Latch	Total Grip	G	Max. Door Thickness for Assembled Latch
20 (.79)	00	1 (.04)	40 (1.57)	10	7 (.28)
22 (.87)	01	2 (.08)	42 (1.65)	11	
24 (.94)	02	4 (.16)	44 (1.73)	12	
26 (1.02)	03	5 (.20)	46 (1.81)	13	
28 (1.10)	04	6 (.24)	48 (1.89)	14	
30 (1.18)	05	7 (.28)	50 (1.97)	15	
32 (1.26)	06		52 (2.05)	16	
34 (1.34)	07		54 (2.13)	17	
36 (1.42)	08		56 (2.20)	18	
38 (1.50)	09		58 (2.28)	19	

For Fixed Grip, if your grip is between two options choose the smaller grip

G Grip	Minimum	Maximum	Cam Type
1	16.4 (.64)	32.2 (1.26)	Deep offset cam, forward
	71.3 (2.80)	81.2 (3.19)	Deep offset cam, reversed
2	30.4 (1.19)	46.1 (1.81)	Offset cam, forward
	57.6 (2.26)	73.3 (2.88)	Offset cam, reversed
3	43.9 (1.72)	59.6 (2.34)	Straight cam



E3 VISE ACTION® Compression Latch

Stainless steel housing · Tool operated

Compact · Fixed or adjustable grip · 19.1mm size

- Minimal panel intrusion
- Consistent pre-set compression
- Premium finish
- Corrosion resistance
- Tool operated for security
- EN 45545-3 E60 Compliant

Material and Finish

Stainless steel 304 and 316

Performance Details

Compression: 6.4 mm (.25 in)

Maximum static load:

Adjustable Grip: 600 N (136 lbf)

Fixed Grip: 450 N (100 lbf)

Sealing Notes

NEMA 4 and IP65 enabled by using supplied flange gasket

Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in-lbf)

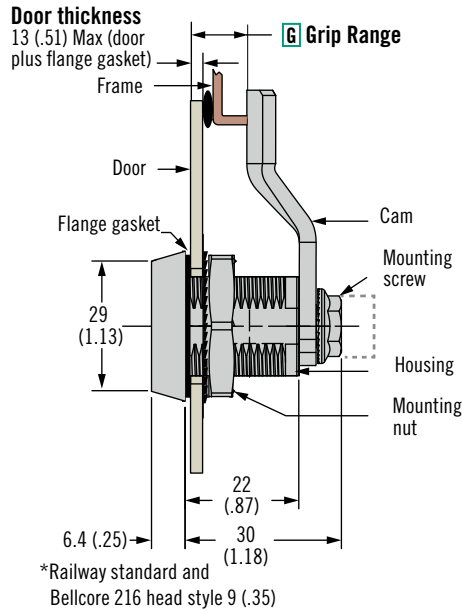
Adjustable Grip: Position cam so latching function can be achieved comfortably by hand.

Fixed Grip: Mounting screw torque 10 N·m (88 in-lbf)

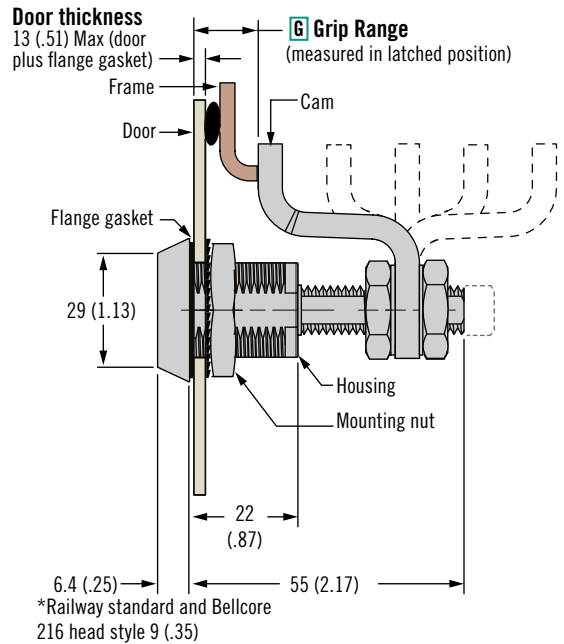
Keys and Accessories

See pages 118-121

FIXED GRIP

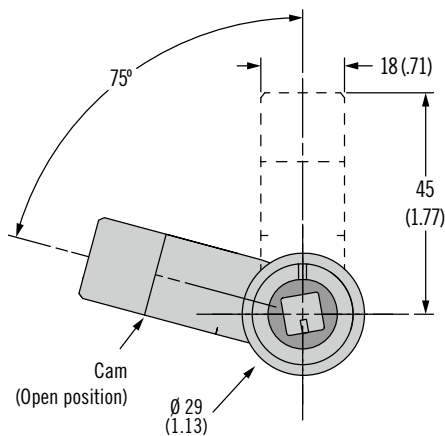


ADJUSTABLE GRIP



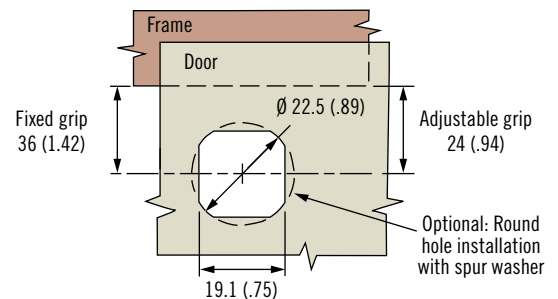
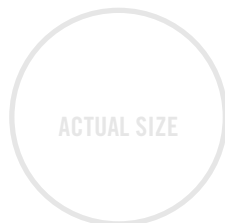
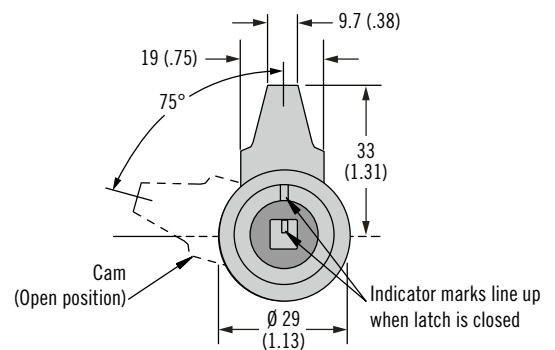
Latch open

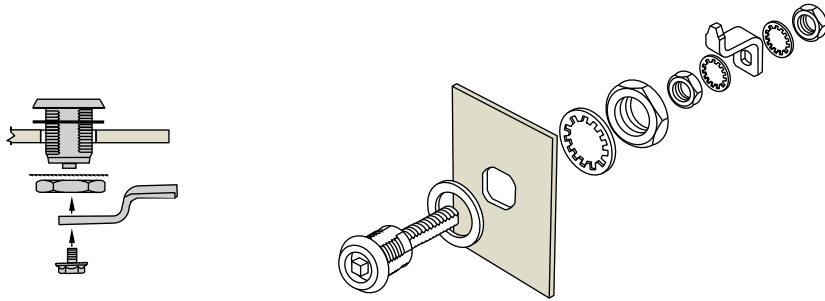
Type "A" clockwise to latch



Latch closed

Type "A" clockwise to latch





FIXED GRIP

E3 - C R H - UUO

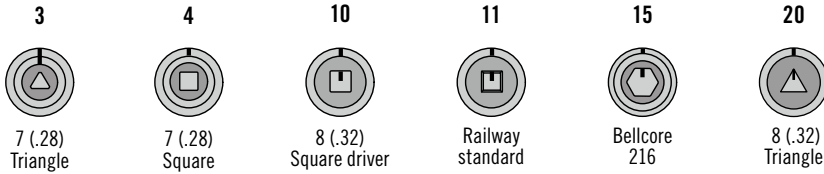
ADJUSTABLE GRIP

E3 - C R H - 00

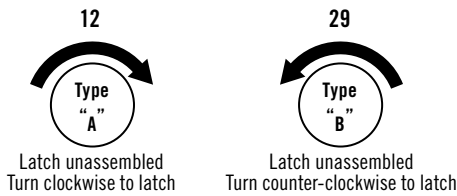
Part Number Selection

See table
Order latch and cam separately.

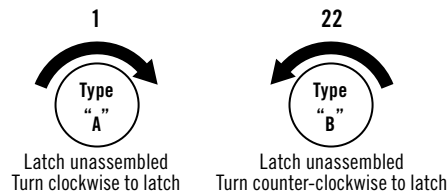
H Head Styles



R Rotation



R Rotation



Cam Part Number (order separately from latch)			
Grip	Part Number	Grip	Part Number
4 (.16)	E3-28-700-24	24 (.94)	E3-28-710-24
6 (.24)	E3-28-701-24	26 (1.02)	E3-28-711-24
8 (.31)	E3-28-702-24	28 (1.10)	E3-28-712-24
10 (.39)	E3-28-703-24	30 (1.18)	E3-28-713-24
12 (.47)	E3-28-704-24	32 (1.26)	E3-28-714-24
14 (.55)	E3-28-705-24	34 (1.34)	E3-28-715-24
16 (.63)	E3-28-706-24	36 (1.42)	E3-28-716-24
18 (.71)	E3-28-707-24	38 (1.50)	E3-28-717-24
20 (.79)	E3-28-708-24	40 (1.57)	E3-28-718-24
22 (.87)	E3-28-709-24	42 (1.65)	E3-28-719-24

Cam Part Number Table (order separately from latch)			
Minimum Grip	Maximum Grip	Cam Type	Part Number
3.3 (.13)	14.7 (.58)	Deep offset cam, forward	E3-28-201-24
56.6 (2.23)	66.5 (2.62)	Deep offset cam, reversed	
14.6 (.57)	30.3 (1.19)	Offset cam, forward	E3-28-202-24
42 (1.65)	57.7 (2.27)	Offset cam, reversed	
28.2 (1.13)	44.5 (1.75)	Straight cam	E3-28-203-24

Select grip from Cam table if your grip is between two options choose the smaller grip





E3 VISE ACTION® Compression Latch

Stainless steel housing · Tool operated

High-pressure sealed · Fixed or adjustable grip · 19.1mm size

- Consistent pre-set compression
- Premium finish
- Corrosion resistance
- IP69K Compliant
- Easy clean
- Conform to DIN EN 1672-2
- Tool operated for security
- EN 45545-3 E60 Compliant

Material and Finish

Stainless Steel 316

Performance Details

Compression: 6.4 mm (.25 in)

Maximum static load:

Adjustable Grip: 600 N (136 lbf)

Fixed Grip: 450 N (100 lbf)

Keys

Use Southco key E3-17-1 only

Installation Notes

Recommended tightening torque for the mounting nut is

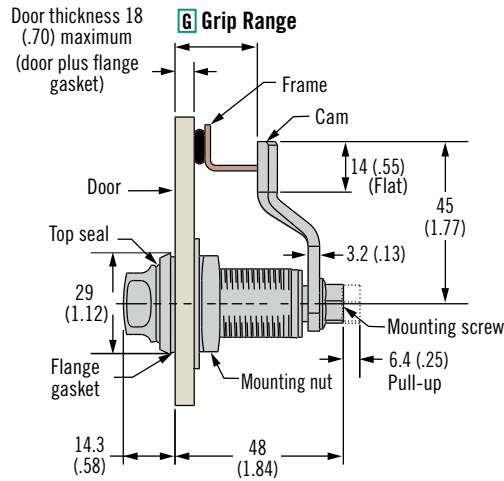
20 N·m (176 in·lbf)

Accessories

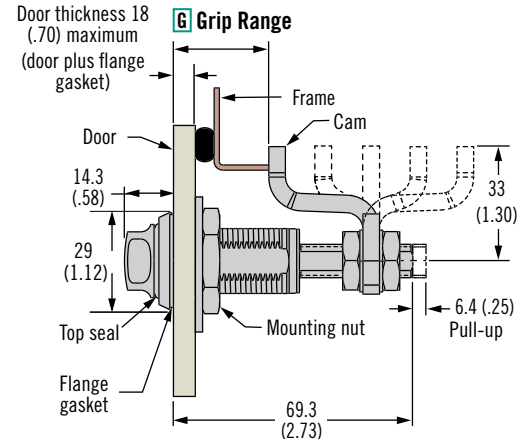
Replacement flange gasket:

Part number: E5-17-101

FIXED GRIP

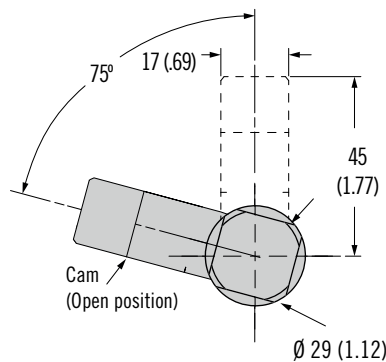


ADJUSTABLE GRIP



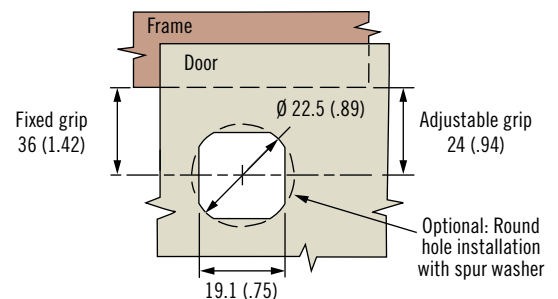
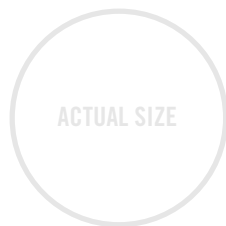
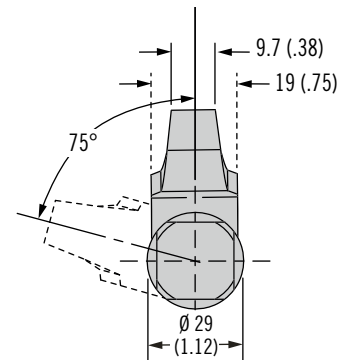
Latch Open

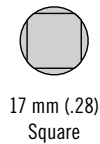
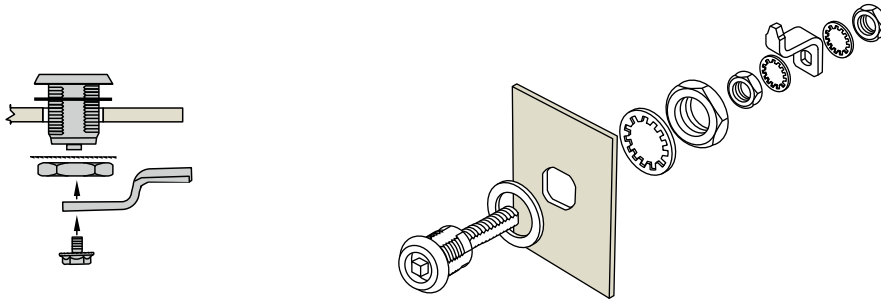
Type "A" clockwise to latch



Latch Closed

Type "A" clockwise to latch





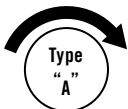
Part Number Selection

FIXED GRIP

E3 - H R 38 - UUO

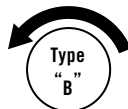
R Rotation

12



Latch unassembled
Turn clockwise to latch

29



Latch unassembled
Turn counter-clockwise to latch

ADJUSTABLE GRIP

E3 - H R 38 - 00

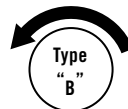
R Rotation

1



Latch unassembled
Turn clockwise to latch

22



Latch unassembled
Turn counter-clockwise to latch

Fixed Grip Cam part number

Grip	Part Number	Grip	Part Number
20 (.79)	E5-1200-24	40 (1.57)	E5-1210-24
22 (.87)	E5-1201-24	42 (1.65)	E5-1211-24
24 (.94)	E5-1202-24	44 (1.73)	E5-1212-24
26 (1.02)	E5-1203-24	46 (1.81)	E5-1213-24
28 (1.10)	E5-1204-24	48 (1.89)	E5-1214-24
30 (1.18)	E5-1205-24	50 (1.97)	E5-1215-24
32 (1.26)	E5-1206-24	52 (2.05)	E5-1216-24
34 (1.34)	E5-1207-24	54 (2.13)	E5-1217-24
36 (1.42)	E5-1208-24	56 (2.20)	E5-1218-24
38 (1.50)	E5-1209-24	58 (2.28)	E5-1219-24

Adjustable Grip Cam part number

Minimum Grip	Maximum Grip	Cam Type	Part Number
16.4 (.64)	32.2 (1.26)	Deep offset cam, forward	E3-28-201-24
71.3 (2.80)	81.2 (3.19)	Deep offset cam, reversed	
30.4 (1.19)	46.1 (1.81)	Offset cam, forward	E3-28-202-24
57.6 (2.26)	73.3 (2.88)	Offset cam, reversed	
43.9 (1.72)	59.6 (2.34)	Straight cam	E3-28-203-24

See table
Order latch and cam separately.
Select grip from Cam table if your grip is between two options choose the smaller grip



E3 VISE ACTION® Compression Latch

Stainless steel housing · Tool operated

Bi-Stable cover series · Fixed or adjustable grip · 19.1mm size

- Consistent pre-set compression
- Premium finish
- Corrosion resistance
- Designed to work with separate bi-stable cover with fin
- Cover pops open when latch is not secure, providing visual indication of latch status
- Tool operated for security
- EN 45545-3 E60 Compliant

Material and Finish

Latch: Stainless steel 304 and 316

Cover: Stainless steel 316

Performance Details

Compression: 6.4 mm (.25 in)

Maximum static load:

Adjustable Grip: 600 N (136 lbf)

Fixed Grip: 450 N (100 lbf)

Sealing Notes

Latch: NEMA 4 and IP65 enabled by using the supplied flange gasket

Latch with Bi-Stable Cover: NEMA 4 and IP66 enabled by using the supplied flange gasket

Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in-lbf).

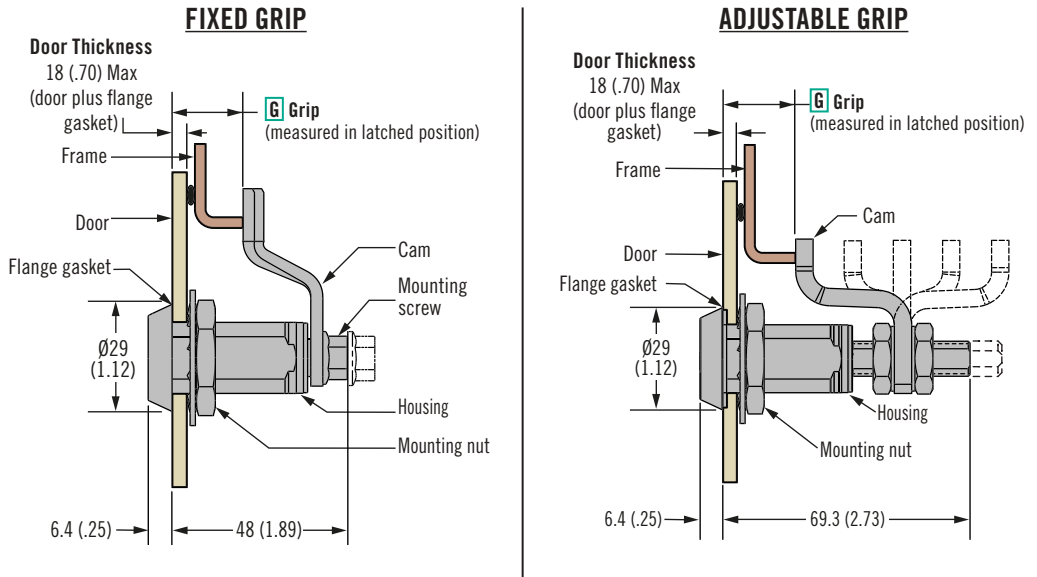
Adjustable Grip: Position cam so latching function can be achieved comfortably by hand.

Fixed Grip: Mounting screw torque 10 N·m (88 in-lbf)

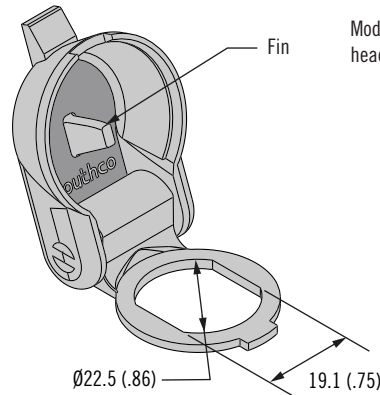
Keys and Accessories

See pages 118-121 (modified head styles work with standard keys)

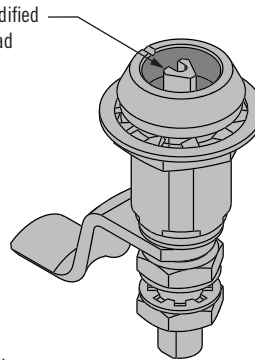
Make Safety Visible™
by Southco



Bi-Stable Cover with fin
Part number E3-80-251-40 (ordered separately)

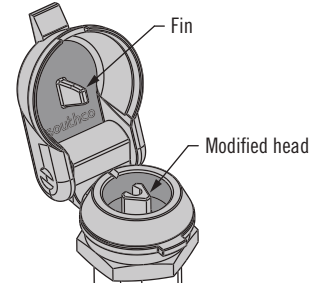


Bi-Stable Cover Latch

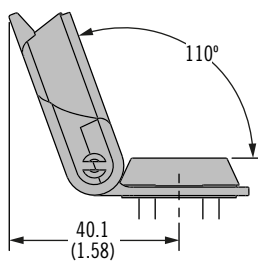


Bi-Stable Cover with fin installed on Bi-Stable Cover Latch

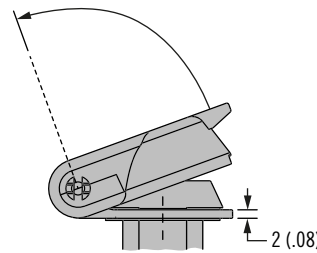
The Bi-Stable Cover can be completely closed only when the latch is fully secured and the fin fits into the notch in the modified head.



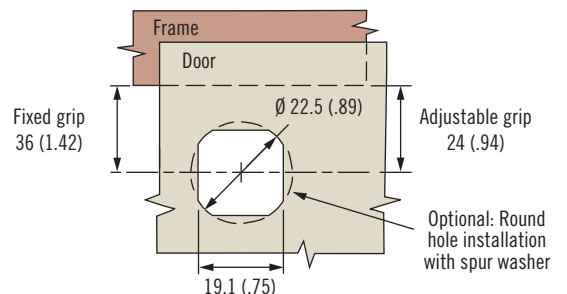
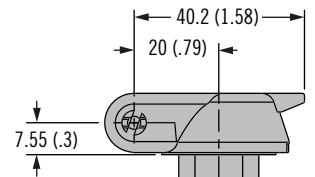
Cover in open position

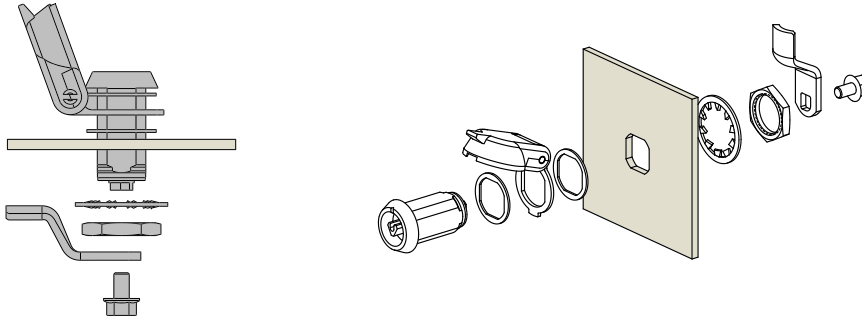


Cover returns to open position

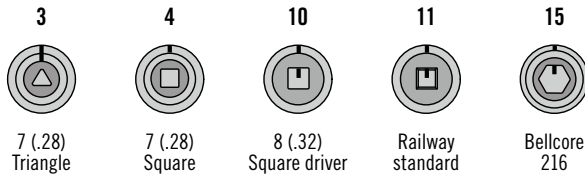


Cover in closed position



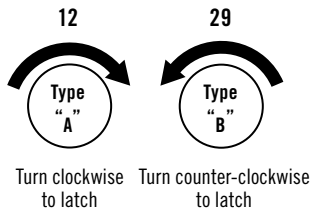


H Head Styles



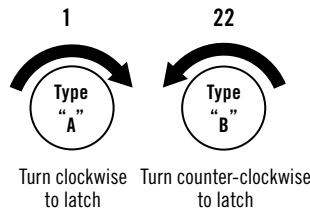
FIXED GRIP

R Rotation



ADJUSTABLE GRIP

R Rotation



E3 - R H B - UUO

Cam Part Number (order separately from latch)			
Grip	Part Number	Grip	Part Number
20 (1.79)	E5-1200-24	40 (1.57)	E5-1210-24
22 (.87)	E5-1201-24	42 (1.65)	E5-1211-24
24 (.94)	E5-1202-24	44 (1.73)	E5-1212-24
26 (1.02)	E5-1203-24	46 (1.81)	E5-1213-24
28 (1.10)	E5-1204-24	48 (1.89)	E5-1214-24
30 (1.18)	E5-1205-24	50 (1.97)	E5-1215-24
32 (1.26)	E5-1206-24	52 (2.05)	E5-1216-24
34 (1.34)	E5-1207-24	54 (2.13)	E5-1217-24
36 (1.42)	E5-1208-24	56 (2.20)	E5-1218-24
38 (1.50)	E5-1209-24	58 (2.28)	E5-1219-24

E3 - R H B - 00

Cam Part Number (order separately from latch)			
Minimum Grip	Maximum Grip	Cam Type	Part Number
16.4 (.64)	32.2 (1.26)	Deep offset cam, forward	E3-28-201-24
71.3 (2.80)	81.2 (3.19)	Deep offset cam, reversed	
30.4 (1.19)	46.1 (1.81)	Offset cam, forward	E3-28-202-24
57.6 (2.26)	73.3 (2.88)	Offset cam, reversed	
43.9 (1.72)	59.6 (2.34)	Straight cam	E3-28-203-24

Part Number Selection

See table
 Order Latch and Cam separately
 Bi-Stable Cover with fin:
 E3-80-251-40
 Select grip from Cam table.
 For Fixed Grip, if your grip is
 between two options choose the
 smaller grip





E3 VISE ACTION® Compression Latch

Stainless steel housing · Hand operated

T-Handle · Fixed or adjustable grip · 19.1mm size

- Consistent pre-set compression
- Premium finish
- Corrosion resistance
- EN 45545-3 E60 Compliant

Material and Finish

Stainless steel

Performance Details

Compression: 6.4 mm (.25 in)

Maximum static load:

Adjustable Grip: 600 N (136 lbf)

Fixed Grip: 450 N (100 lbf)

Sealing Notes

NEMA 4 and IP65 enabled by using supplied flange gasket

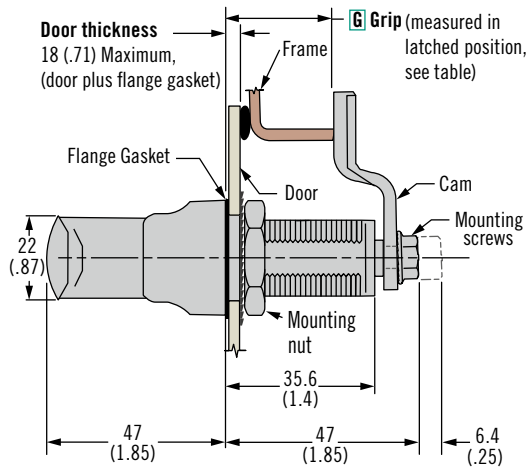
Installation Notes

Recommended tightening torque for the mounting nut is 20 N-m (176 in-lbf).

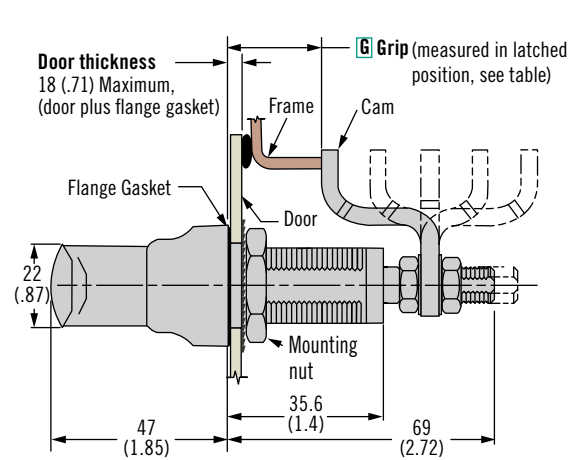
Adjustable Grip: Position cam so latching function can be achieved comfortably by hand.

Fixed Grip: Mounting screw torque 10 N-m (88 in-lbf)

FIXED GRIP

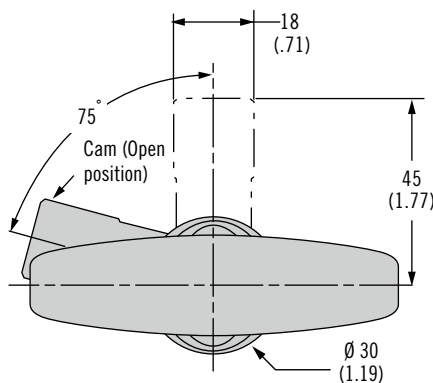


ADJUSTABLE GRIP



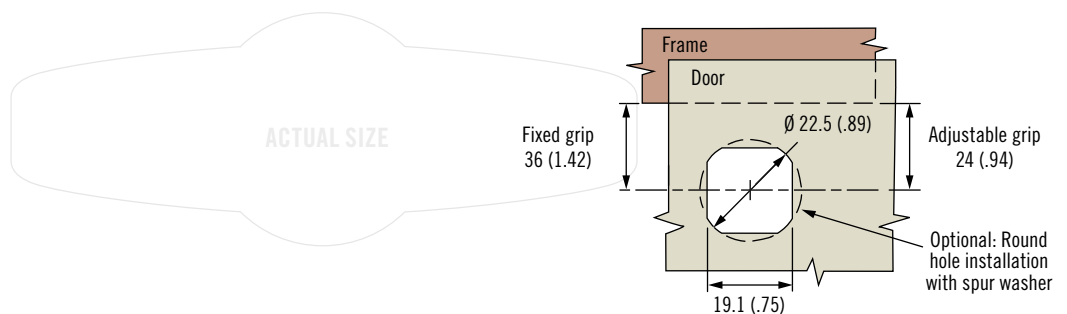
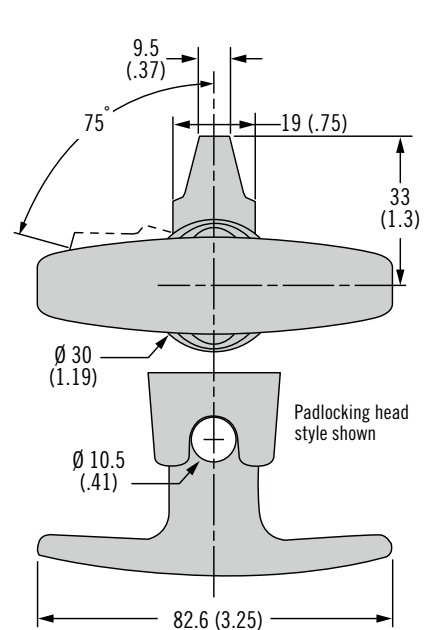
Latch open

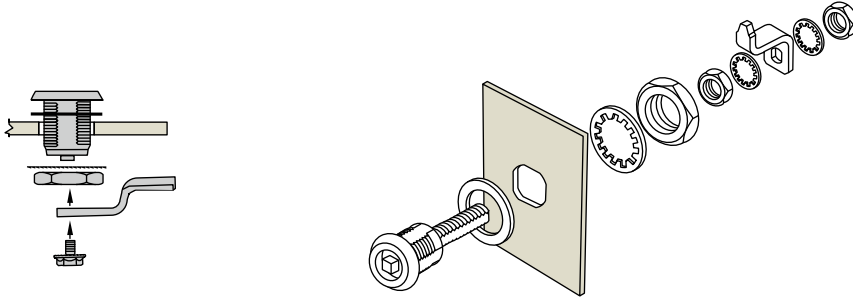
Type "A" clockwise to latch



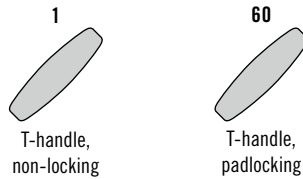
Latch closed

Type "A" clockwise to latch





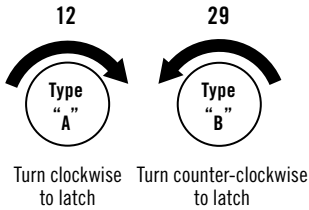
H Head Styles



Fixed Grip

E3 - R H - UU12

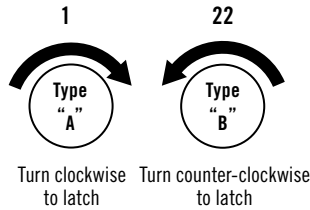
R Rotation



Adjustable Grip

E3 - R H - 012

R Rotation



Cam Part Number Table (order separately from latch)

Grip	Part Number	Grip	Part Number
20 (.79)	E5-1200-24	40 (1.57)	E5-1210-24
22 (.87)	E5-1201-24	42 (1.65)	E5-1211-24
24 (.94)	E5-1202-24	44 (1.73)	E5-1212-24
26 (1.02)	E5-1203-24	46 (1.81)	E5-1213-24
28 (1.10)	E5-1204-24	48 (1.89)	E5-1214-24
30 (1.18)	E5-1205-24	50 (1.97)	E5-1215-24
32 (1.26)	E5-1206-24	52 (2.05)	E5-1216-24
34 (1.34)	E5-1207-24	54 (2.13)	E5-1217-24
36 (1.42)	E5-1208-24	56 (2.20)	E5-1218-24
38 (1.50)	E5-1209-24	58 (2.28)	E5-1219-24

Cam Part Number Table (order separately from latch)

Minimum Grip	Maximum Grip	Cam Type	Part Number
16.4 (.64)	32.2 (1.26)	Deep offset cam, forward	E3-28-201-24
71.3 (2.80)	81.2 (3.19)	Deep offset cam, reversed	
30.4 (1.19)	46.1 (1.81)	Offset cam, forward	E3-28-202-24
57.6 (2.26)	73.3 (2.88)	Offset cam, reversed	
43.9 (1.72)	59.6 (2.34)	Straight cam	E3-28-203-24

Part Number Selection



See table
Order latch and cam separately

Select grip from table, if your grip is between two options choose smaller.



E3 VISE ACTION® Compression Latch

Stainless steel housing · Tool or hand operated

Fixed or adjustable grip · 19.1mm size

- Consistent pre-set compression
- Available premium finish
- Corrosion resistance
- Tool operated for security
- EN 45545-3 E60 Compliant

Material and Finish

Stainless steel 304 and 316 (MIM)

Performance Details

Compression: 6.4 mm (.25 in)

Maximum static load:

Adjustable Grip: 556 N (125 lbf)

Fixed Grip: 450 N (100 lbf)

Sealing Notes

NEMA 4 and IP65 enabled by using supplied flange gasket

Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf).

Adjustable Grip: Position cam so latching function can be achieved comfortably by hand.

Fixed Grip: Mounting screw torque 10 N·m (88 in·lbf)

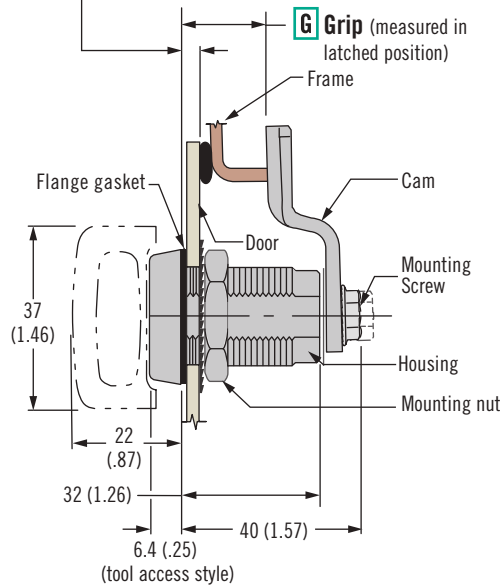
Keys and Accessories

See pages 118-121

FIXED GRIP

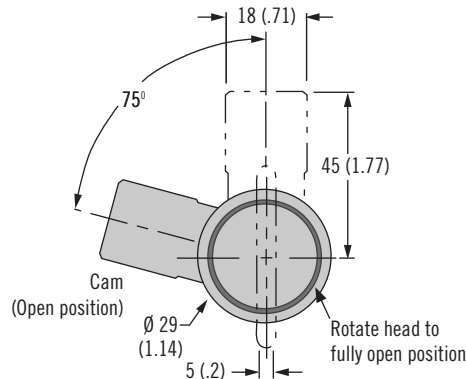
Door thickness

18 (.70) Max., latch unassembled (door plus flange gasket)



Latch open

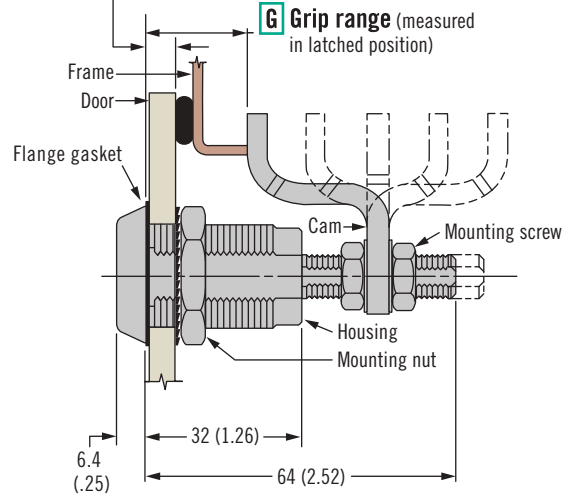
Type "A" clockwise to latch



ADJUSTABLE GRIP

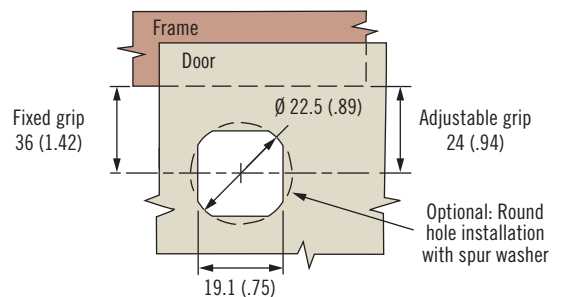
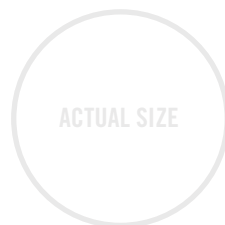
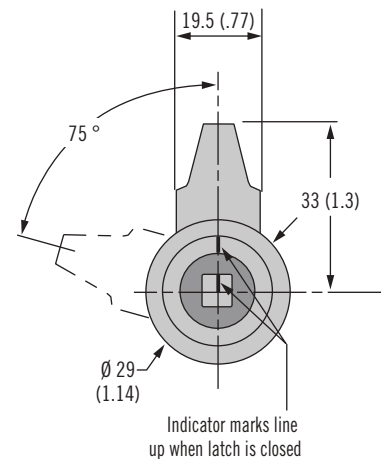
Door thickness

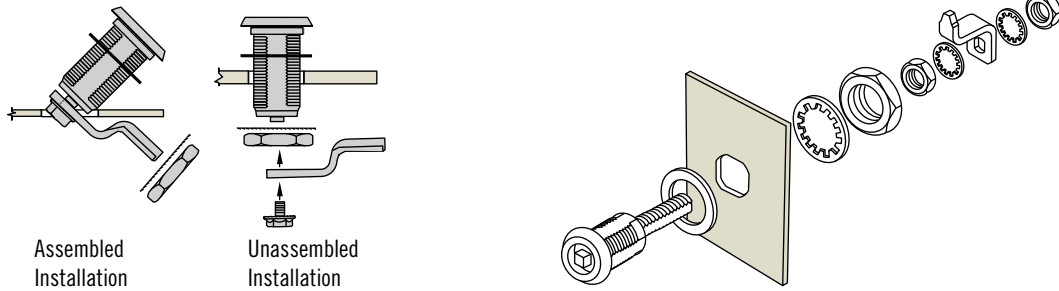
18 (.70) Maximum (door plus flange gasket)



Latch closed

Type "A" clockwise to latch



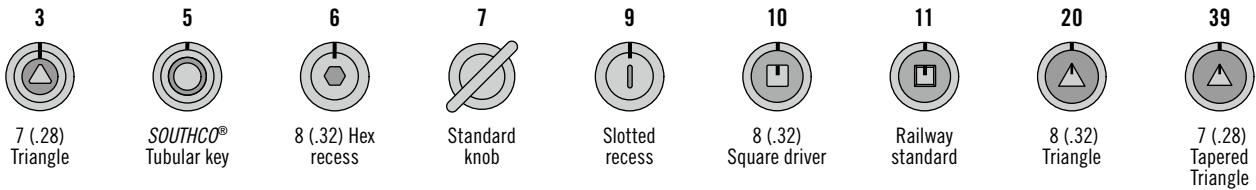


Part Number Selection

E3 - R H - G F

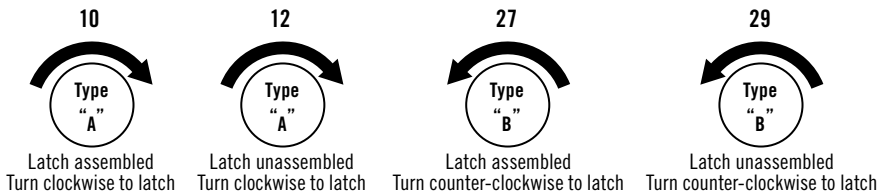
F Finish
 2 Electropolished
 12 Electropolished and hand buffed (bright)

H Head Styles



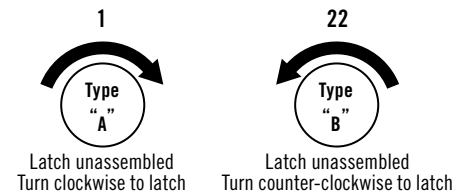
FIXED GRIP

R Rotation



ADJUSTABLE GRIP

R Rotation



G Grip Table					
Total Grip	G	Max. Door Thickness for Assembled Latch	Total Grip	G	Max. Door Thickness for Assembled Latch
15 (.59)	00	Use unassembled	35 (1.38)	10	7 (.28)
17 (.67)	01	Use unassembled	37 (1.46)	11	
19 (.75)	02	1 (.04)	39 (1.53)	12	
21 (.83)	03	2 (.08)	41 (1.61)	13	
23 (.91)	04	4 (.16)	43 (1.69)	14	
25 (.98)	05	5 (.20)	45 (1.77)	15	
27 (1.06)	06	6 (.24)	47 (1.85)	16	
29 (1.14)	07	7 (.28)	49 (1.93)	17	
31 (1.22)	08		51 (2.01)	18	
33 (1.30)	09		53 (2.09)	19	

For Fixed Grip, if your grip is between two options choose the smaller grip

G Grip	Minimum	Maximum	Cam Type
1	11.4 (.45)	27.2 (1.07)	Deep offset cam, forward
	66.3 (2.61)	76.2 (3.00)	Deep offset cam, reversed
2	25.4 (1.00)	41.1 (1.62)	Offset cam, forward
	52.6 (2.07)	68.3 (2.69)	Offset cam, reversed
3	38.9 (1.53)	54.6 (2.15)	Straight cam



E3 VISE ACTION® Compression Latch

Stainless steel housing · Tool operated
 Compact · Fixed grip · 20.1mm size

- Minimal panel intrusion
- Consistent pre-set compression
- Corrosion resistance
- Tool operated for security
- EN 45545-3 E60 Compliant



Material and Finish

Stainless steel 316 (MIM)

Performance Details

Compression: 6.4 mm (.25 in)
 Maximum static load: 300 N (67 lbf)

Sealing Notes

NEMA 4 and IP65 enabled by using supplied flange gasket

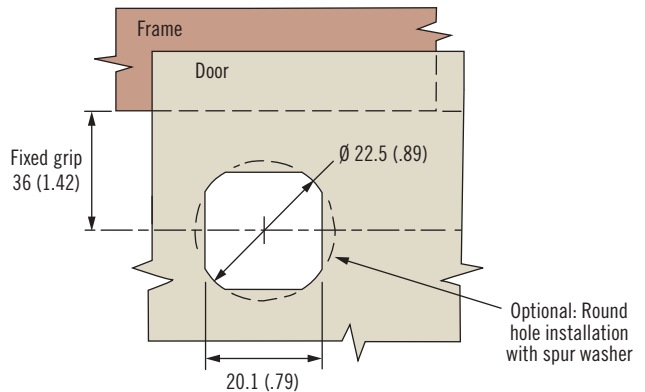
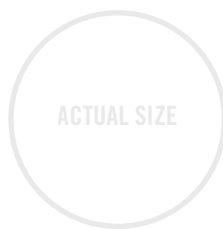
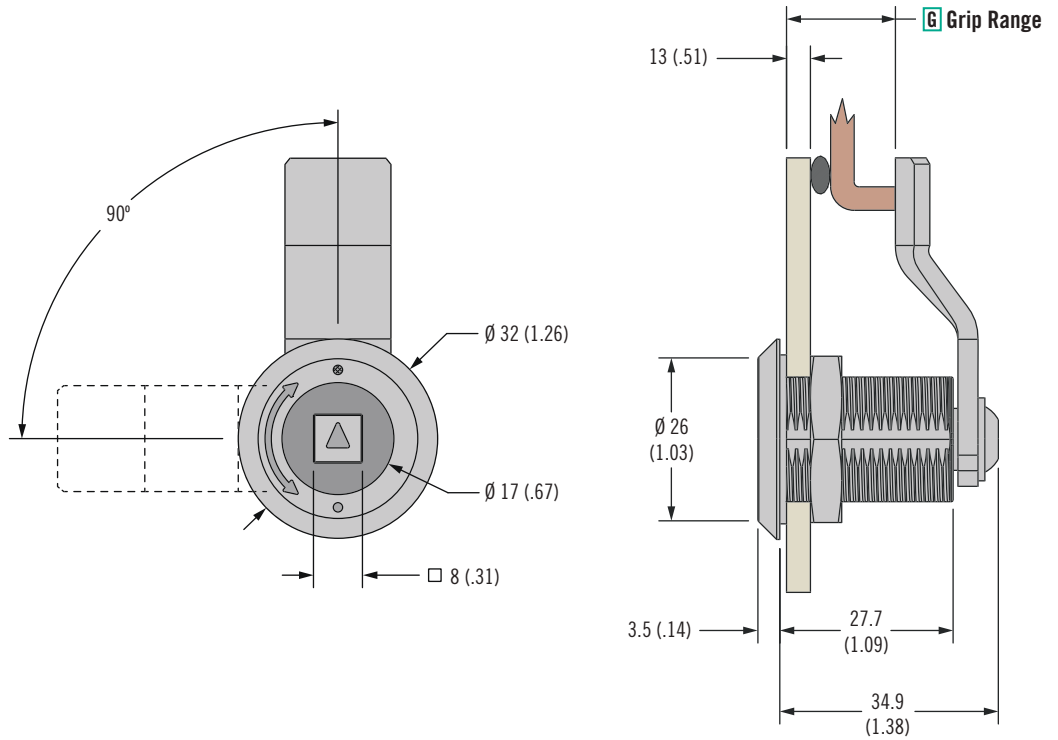
Installation Notes

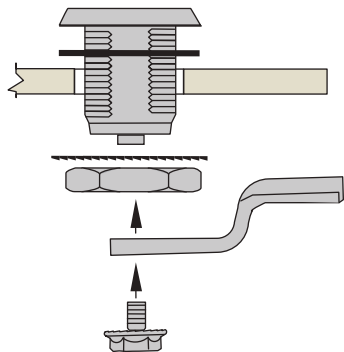
Recommended tightening torque for the mounting nut is 20 N·m (176 in-lbf)
 Fixed Grip: Mounting screw torque 10 N·m (88 in-lbf)

Keys and Accessories

See pages 118-121

FIXED GRIP



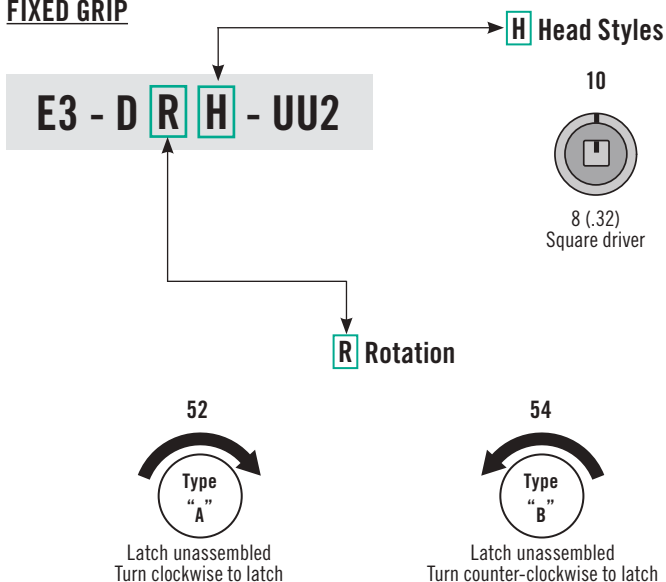


Part Number Selection

See table

Order latch and cam separately.

FIXED GRIP



Cam Part Number (order separately from latch)			
Grip	Part Number	Grip	Part Number
10 (.39)	E3-28-700-24	30 (1.18)	E3-28-710-24
12 (.47)	E3-28-701-24	32 (1.26)	E3-28-711-24
14 (.55)	E3-28-702-24	34 (1.34)	E3-28-712-24
16 (.63)	E3-28-703-24	36 (1.42)	E3-28-713-24
18 (.71)	E3-28-704-24	38 (1.50)	E3-28-714-24
20 (.79)	E3-28-705-24	40 (1.57)	E3-28-715-24
22 (.87)	E3-28-706-24	42 (1.65)	E3-28-716-24
24 (.94)	E3-28-707-24	44 (1.73)	E3-28-717-24
26 (1.02)	E3-28-708-24	46 (1.81)	E3-28-718-24
28 (1.10)	E3-28-709-24	48 (1.89)	E3-28-719-24

Select grip from Cam table.

If your grip is between two options choose the smaller grip.



E3 VISE ACTION® Compression Latch

Stainless steel housing · Tool operated

Visual indicator of latch status · Fixed or adjustable grip · 19.1mm size



- Feature indicates when latch is open
- Consistent pre-set compression
- Premium finish
- Corrosion resistance
- Tool operated for security
- EN 45545-3 E60 Compliant

Material and Finish

Stainless steel 304 and 316 (MIM)

Performance Details

Compression: 6.4 mm (.25 in)

Adjustable Grip: Maximum static load: 450 N (100 lbf)

Fixed Grip: Maximum static load: 450 N (100 lbf)

Fixed Grip: Maximum static load: 450 N (100 lbf)

Sealing Notes

NEMA 4 and IP66/IP67 enabled by using supplied flange gasket

Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf).

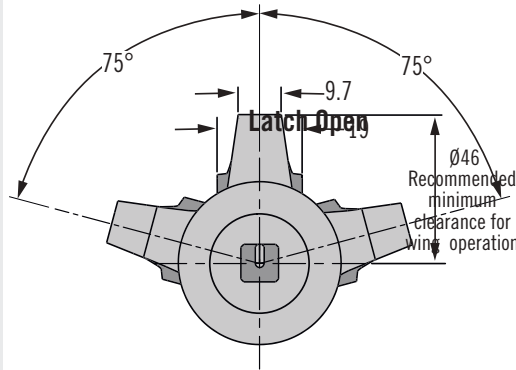
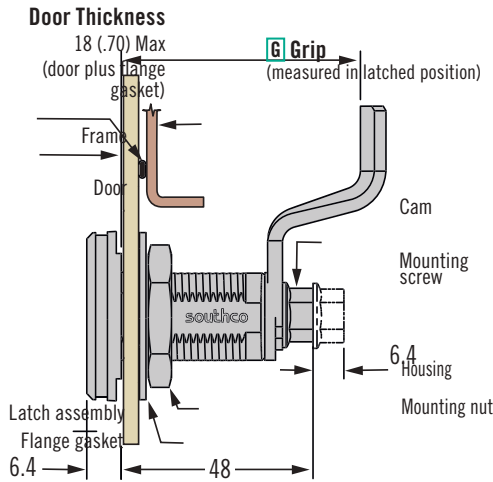
Adjustable Grip: Position cam so latching function can be achieved comfortably by hand.

Fixed Grip: Mounting screw torque 10 Nm (88 in lbf)

Keys and Accessories

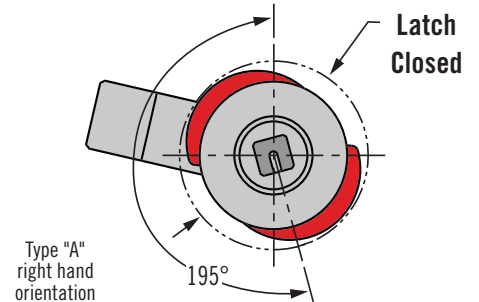
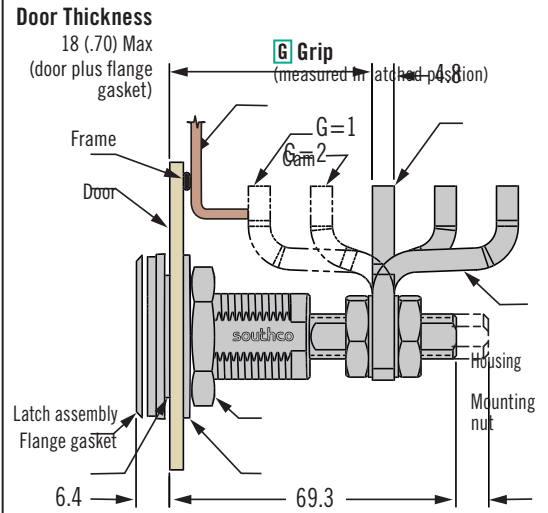
See pages 118-121

FIXED GRIP

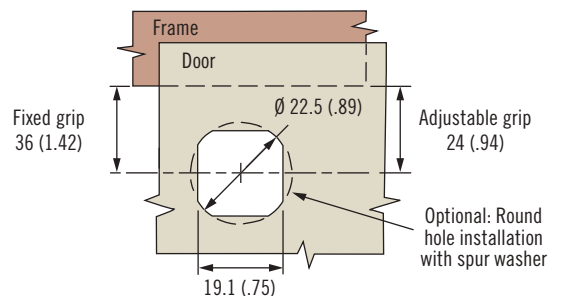
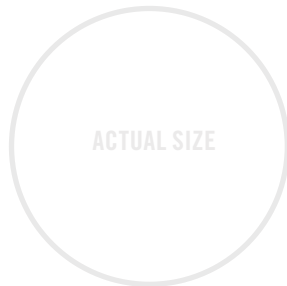


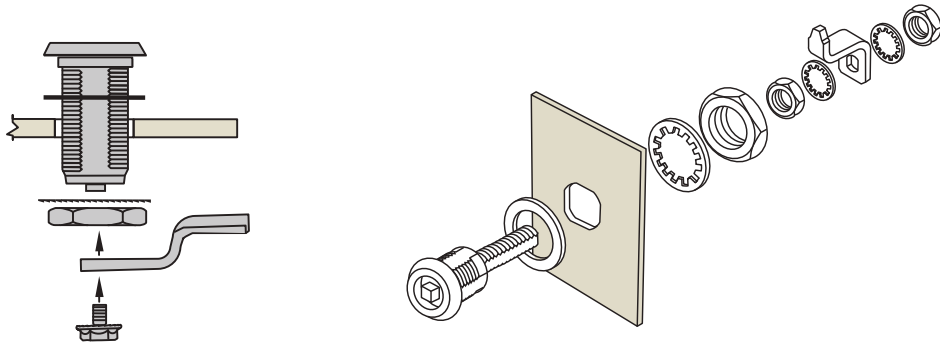
Visual indicator when latch is open

ADJUSTABLE GRIP

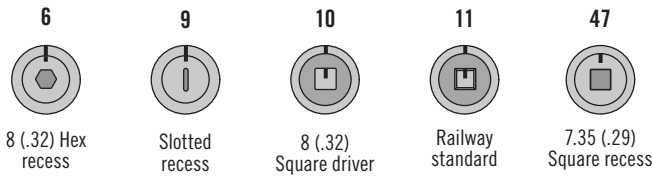


Make Safety Visible™
by Southco



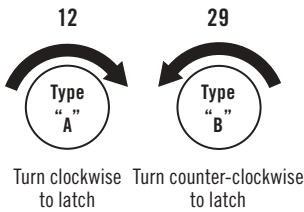


H Head Styles



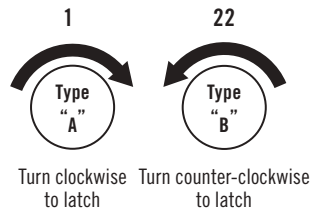
FIXED GRIP

R Rotation



ADJUSTABLE GRIP

R Rotation



E3 - A R H - UU2

E3 - A R H - 02

Part Number Selection

See table
Order Latch and Cam separately
Select grip from Cam table.
For Fixed Grip, if your grip is between two options choose the smaller grip

Cam Part Number (order separately from latch)			
Grip	Part Number	Grip	Part Number
15 (.59)	E3-28-700-24	35 (1.38)	E3-28-710-24
17 (.67)	E3-28-701-24	37 (1.46)	E3-28-711-24
19 (.75)	E3-28-702-24	39 (1.53)	E3-28-712-24
21 (.83)	E3-28-703-24	41 (1.61)	E3-28-713-24
23 (.91)	E3-28-704-24	43 (1.69)	E3-28-714-24
25 (.98)	E3-28-705-24	45 (1.77)	E3-28-715-24
27 (1.06)	E3-28-706-24	47 (1.85)	E3-28-716-24
29 (1.14)	E3-28-707-24	49 (1.93)	E3-28-717-24
31 (1.22)	E3-28-708-24	51 (2.01)	E3-28-718-24
33 (1.30)	E3-28-709-24	53 (2.09)	E3-28-719-24

Cam Part Number (order separately from latch)			
Minimum Grip	Maximum Grip	Cam Type	Part Number
11.4 (.45)	27.2 (1.07)	Deep offset cam, forward	E3-28-201-24
66.3 (2.61)	76.2 (3.00)	Deep offset cam, reversed	
25.4 (1.00)	41.1 (1.62)	Offset cam, forward	E3-28-202-24
52.6 (2.07)	68.3 (2.69)	Offset cam, reversed	
38.9 (1.53)	54.6 (2.15)	Straight cam	E3-28-203-24





E3 VISE ACTION® Compression Latch

Aluminum housing · Tool operated
Fixed or adjustable grip · 19.1mm size

- Light weight
- Consistent pre-set compression
- Premium finish
- Corrosion resistance
- Tool operated for security
- EN 45545-3 E30 Compliant

Material and Finish

Aluminum, anodized or powder coated
Black hard anodized assembly -
Stainless Steel cam and hardware
All other finishes - Steel cam and hardware

Performance Details

Compression: 6.4 mm (.25 in)
Maximum static load: 530 N (120 lbf)
Complies with DIN EN 61373
vibration standard

Sealing Notes

NEMA 4 and IP65 enabled by using
supplied flange gasket

Installation Notes

Recommended tightening torque for
the mounting nut is
20 N m (176 in lbf).
Position cam so latching function
can be achieved comfortably by
hand.

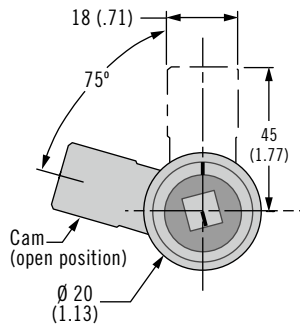
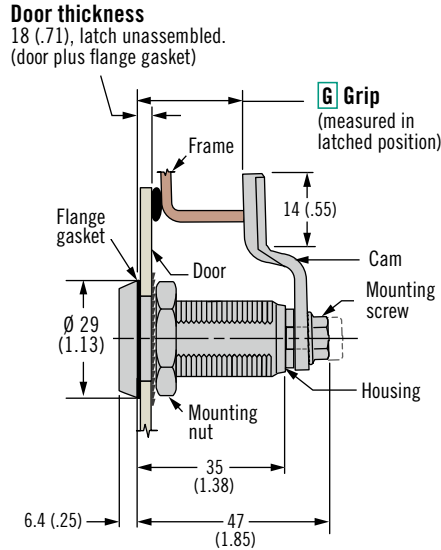
Keys and Accessories

See pages 118-121

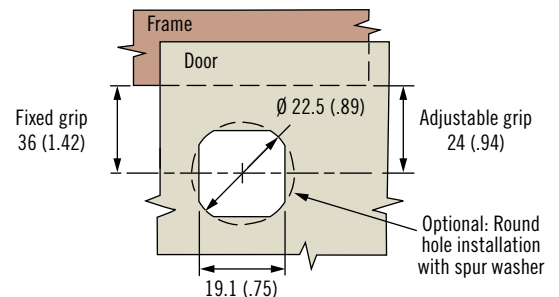
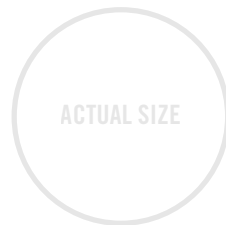
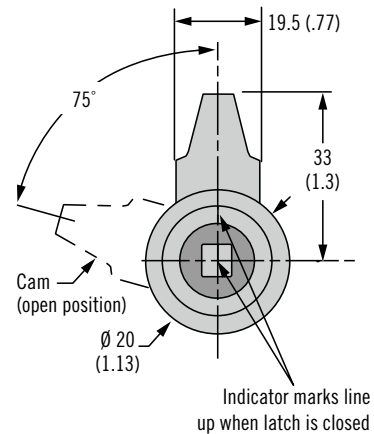
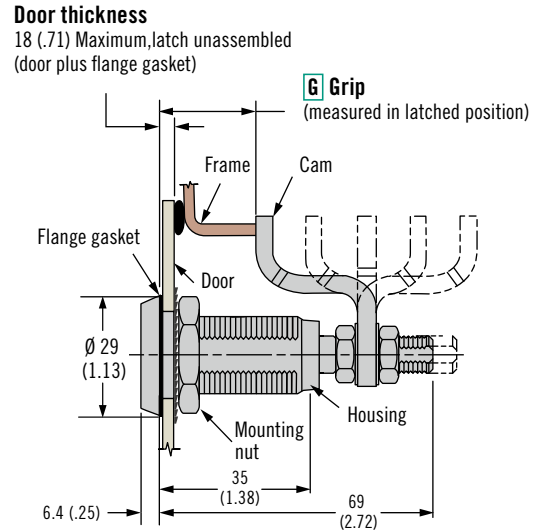
Part Number Selection

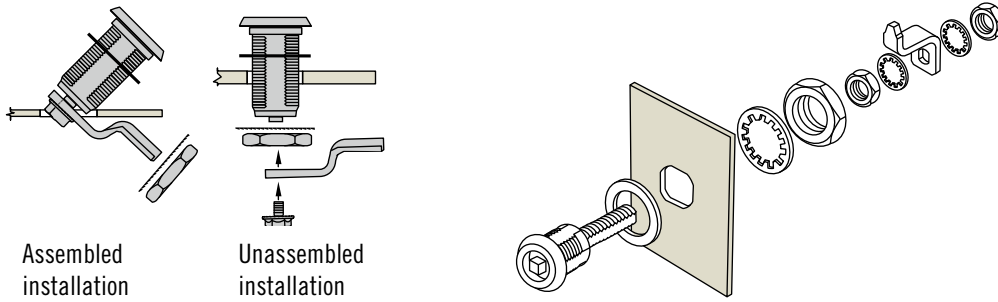
See table.

FIXED GRIP



ADJUSTABLE GRIP



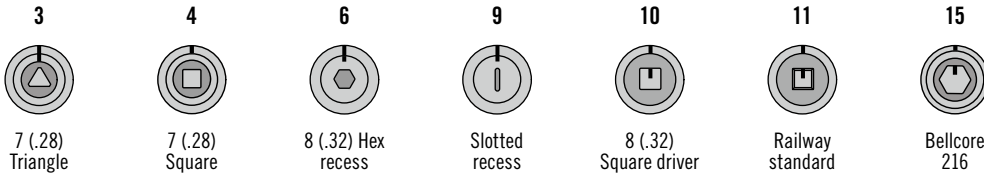


Part Number Selection

E3 - R H - G F

- F Finish**
 59 Black Hard Anodized
 06 Clear Powder Coat
 56 Black Powder Coat
 76 Silver Powder Coat

H Head Styles

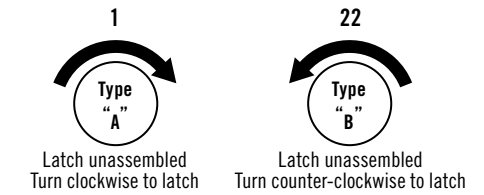
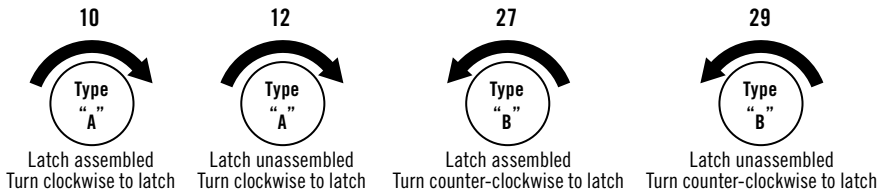


FIXED GRIP

ADJUSTABLE GRIP

R Rotation

R Rotation



G Grip Table					
Total Grip	G	Max. Door Thickness for Assembled Latch	Total Grip	G	Max. Door Thickness for Assembled Latch
20 (.79)	00	1 (.04)	40 (1.57)	10	7 (.28)
22 (.87)	01	2 (.08)	42 (1.65)	11	
24 (.94)	02	4 (.16)	44 (1.73)	12	
26 (1.02)	03	5 (.20)	46 (1.81)	13	
28 (1.10)	04	6 (.24)	48 (1.89)	14	
30 (1.18)	05	7 (.28)	50 (1.97)	15	
32 (1.25)	06		52 (2.05)	16	
34 (1.34)	07		54 (2.13)	17	
36 (1.42)	08		56 (2.20)	18	
38 (1.50)	09		58 (2.28)	19	

For Fixed Grip, if your grip is between two options choose the smaller grip

G Grip	Minimum	Maximum	Cam Type
1	16.4 (.64)	32.2 (1.26)	Deep offset cam, forward
	71.3 (2.80)	81.2 (3.19)	Deep offset cam, reversed
2	30.4 (1.19)	46.1 (1.81)	Offset cam, forward
	57.6 (2.26)	73.3 (2.88)	Offset cam, reversed
3	43.9 (1.72)	59.6 (2.34)	Straight cam



E3 VISE ACTION® Compression Latch

Stainless steel housing · Tool or hand operated

Adjustable grip · 13.5mm size

- Reduced dimensions
- Consistent pre-set compression
- Easy grip
- Corrosion resistance
- Tool operated for security
- EN 45545-3 E60 Compliant

Material and Finish

Stainless steel 304 and 316 (MIM)

Performance Details

Compression: 4.3 mm (.17 in)

Maximum static load: 356 N (80 lbf)

Sealing Notes

NEMA 4 and IP65 enabled by using supplied flange gasket

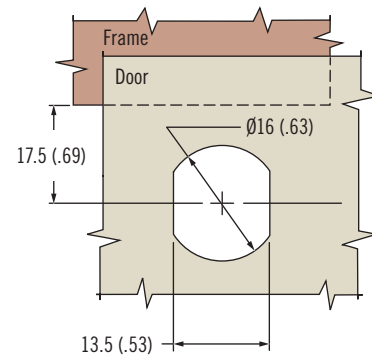
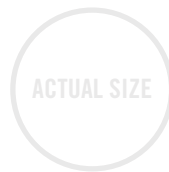
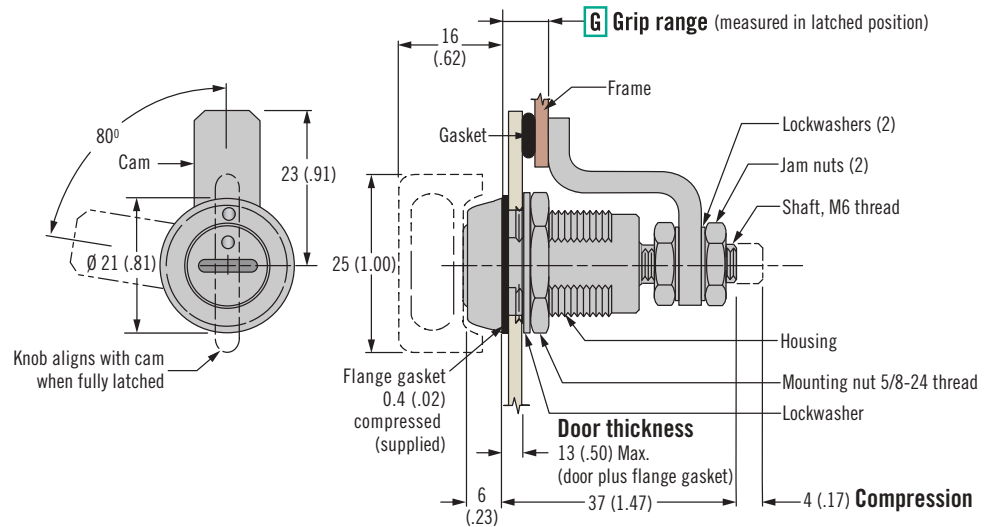
Installation Notes

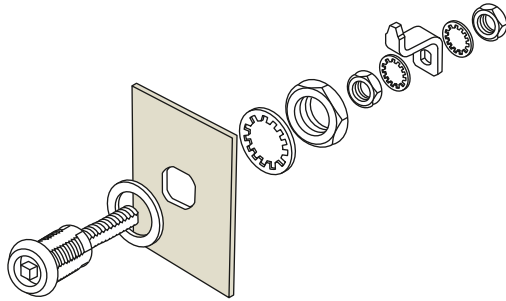
Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf).

Position cam so latching function can be achieved comfortably by hand.

Keys & Accessories

See pages 118-121

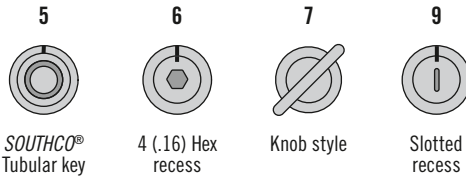




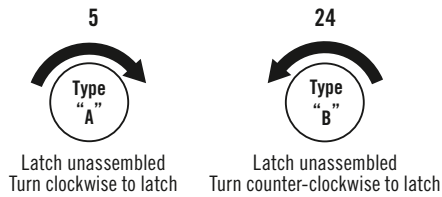
E3 - R H - G F

F Finish
2 Electropolished

H Head Styles



R Rotation



G Grip	Minimum	Maximum
1	3.2 (.13)	6.4 (.25)
2	6.4 (.25)	9.5 (.37)
3	9.5 (.37)	12.7 (.50)
4	12.7 (.50)	15.9 (.63)
5	15.9 (.63)	19 (.75)
6	19 (.75)	22.2 (.87)
7	22.2 (.87)	25.4 (1)
8	25.4 (1)	28.6 (1.13)

Part Number Selection
See table





E3 VISE ACTION® Compression Latch Accessories

Fixed mounting bracket · Flush cup

Material and Finish

Stainless steel or galvanized steel with rubber o-ring

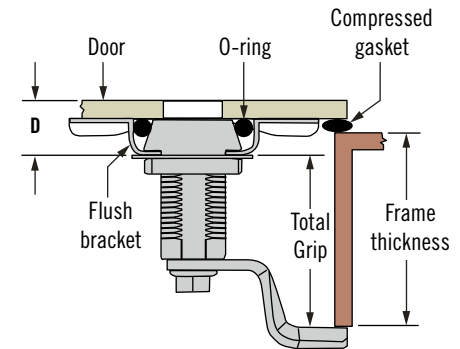
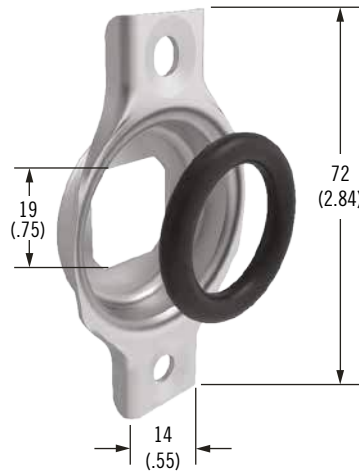
Sealing Notes

Environmental sealing is achieved by using latch with flange gasket and sealing the mounting screw threads.

Notes

For use with 19.1mm size single hole mount tool operated E3 VISE ACTION® compression latches

Flush Mounting Bracket



To calculate the **Total Grip**, subtract cup depth (**D**) from **frame thickness + compressed gasket**

E3 - 77 - 25 **D - **M****

D Depth

- 1 6.6 mm (for tool head style)
- 2 9.3 mm (for Railway standard or Bellcore 216 head style only)

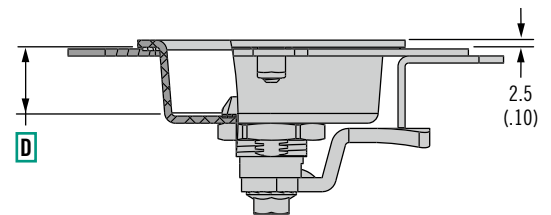
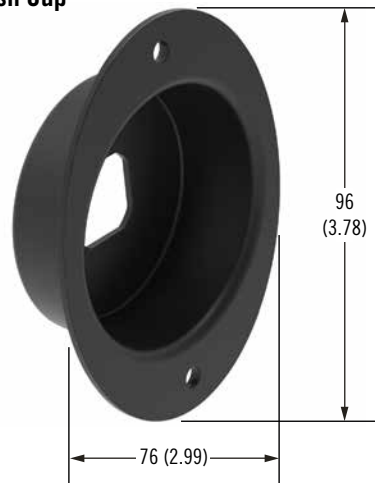
M Material

- 12 Galvanized steel
- 24 Stainless steel 304

Material and Finish

Carbon steel, black powder coated

Flush Cup



To calculate total grip, add cup depth (**D**) to latch grip

E5 - 2 **M - 61 **D** - 5**

M Mounting Style

- 0 M5 studs
- 1 Through hole

D Depth

- 1 19 mm (for wingknob head style)
- 2 4 mm (for tool head style)

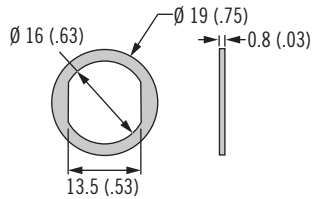
E3 VISE ACTION® Compression Latch Accessories

Flange gaskets · Spur washers · Sealing covers

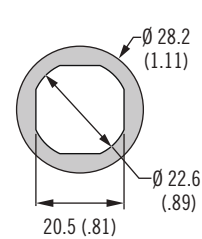


Flange gasket

13.5mm size

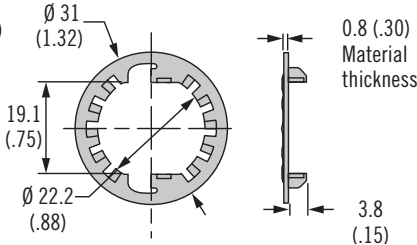


19.1mm size



Spur Washer

19.1mm size



Type	Part Number
Flange gasket 13.5mm size	E3-0-30268-02
Flange gasket 19.1mm size	E5-17
Flange gasket 19.1mm size	E5-17-101

Type	Part Number
Spur washer 19.1mm size	90-6-875

Material and Finish

Flange gasket: Neoprene, natural
Spur washer: Steel, zinc plated

Notes

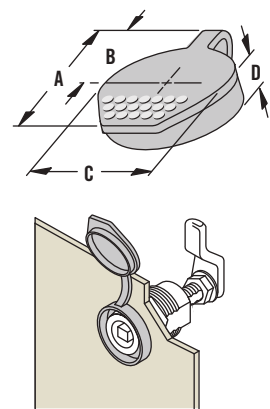
Spur washer provides for round hole installation in wood and similar materials of low density

Adjustment Formula

Flange gasket : add 0.4 (.02) to door thickness

Spur washer : add 0.8 (.03) to door thickness

Sealing Cover



Latch Installation Hole Size		Dimensions			
Ø G	F	A	B	Ø C	D
16 (.63)	13.5 (.53)	40 (1.58)	20 (.85)	29 (1.13)	10.5 (.42)
22.5 (.88)	19.6 (.77)	47 (1.84)	28 (1.09)	35 (1.38)	11.7 (.46)

Type	Part Number
Sealing cover 13.5mm size	90-1
Sealing cover 19.1mm size	90-3

Material and Finish

Sealing cover: Thermoplastic elastomer, black

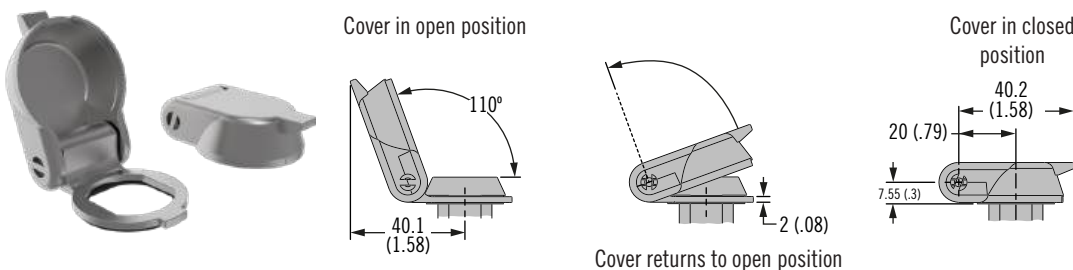
Notes

Thermoplastic sealing cover cannot be used with Railway standard or Bellcore 216 styles

Adjustment Formula

Sealing cover : add 2.3 (.09) to door thickness

Bi-Stable Sealing Cover – Stainless Steel



Type	Part Number
Bi-Stable sealing cover 19.1mm size	E3-80-252-40

Material and Finish

Sealing cover: Stainless steel (MIM), electropolished

Notes

Bi-Stable sealing cover can only be used with tool head styles

Adjustment Formula

Sealing cover : add 2.0 (.08) to door thickness



E3 VISE ACTION® Compression Latch Accessories

Padlock brackets · Pull tabs · Sleeve nuts

Material and Finish

Stainless steel, black powder coated

Sealing Notes

To provide sealing use two flange gaskets and add compressed thickness of each flange gasket and bracket thickness to your door thickness.

Notes

Padlock bracket: For 19.1mm size single hole mount tool operated only
Only unassembled styles can be used with round padlock bracket.
Not for use with Southco Tubular Key

Notes

Add 2.0 (.08) to door thickness

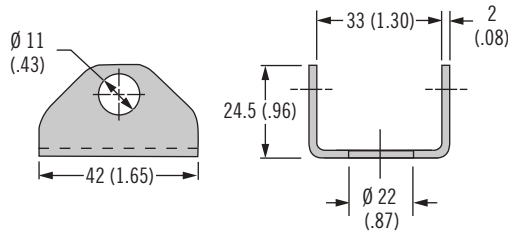
Material and Finish

Nylon, black

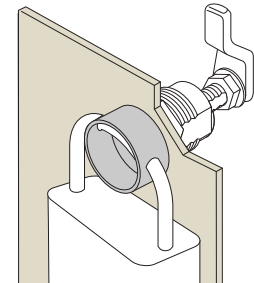
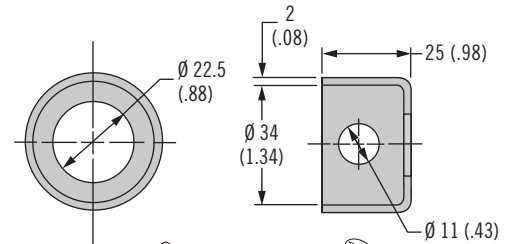
Adjustment Formula

Add 2.0 (.08) to door thickness

Padlock Bracket (Square)

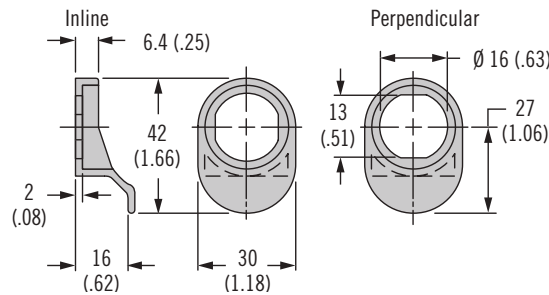


Padlock Bracket (Round)

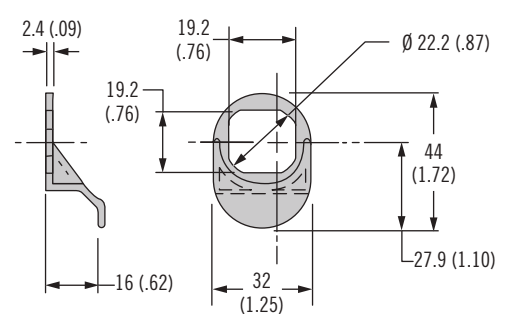


Type	Part Number
Padlock bracket square	E3-77-101-31
Padlock bracket round	E3-77-102-31

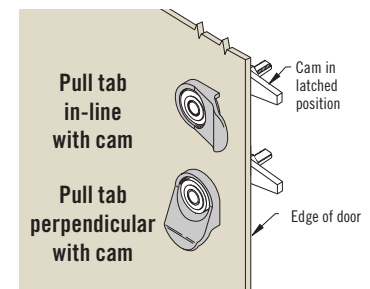
Pull Tab (13.5mm size)



Pull Tab (19.1mm size)



Type	Part Number
Pull tab 13.5 mm size – In-line	E3-27-61
Pull tab 13.5 mm size – Perpendicular	E3-27-62
Pull tab 19.1 mm size	E3-27-1



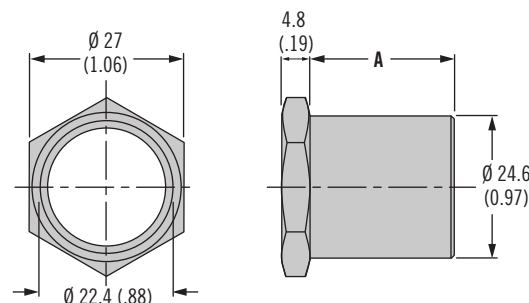
Material and Finish

Zinc alloy

Installation Notes

For use in double skin doors.
Product standard panel cutout in outer door and for the inner door produce 25 (.98) hole for sleeve nut

Sleeve Nut M22 Thread (for 19.1mm size E3 only)



Type	A	Part Number
Sleeve Nut – short	12.7 (.50)	E3-34-263-36
Sleeve Nut - long	25 (.98)	E3-34-264-36

Dimensions in millimeters (inch) unless otherwise stated



Tool Operated Key

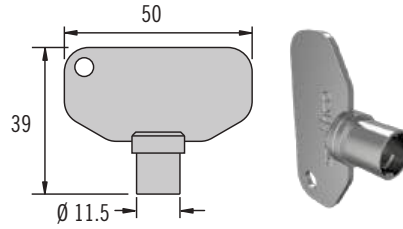


- F** Finish
- 1 Plated zinc
 - 2 Natural zinc
 - 3 Nylon black

E3 - H - F

H Head style

Southco® Tubular Key



Material and Finish

Tool Operated: Zinc, bright nickel plate or natural and nylon, black
 Tubular: Steel, bright nickel plate

2	3	4	7	8
3 (.11) Double bit	7 (.28) Triangle	7 (.28) Square	8 (.32) Triangle	8 (.32) Square recess
9	10	11	12	14
5 (.19) Double bit	8 (.32) Square male	Bellcore electronics	Bellcore 216	Railway Standard
15	16	17	25	E3-5-15
Railway male	7 (.28) Tapered triangle	17 (.67) square	6 (.24) Square male	Southco® Tubular 19.1 (.75)

E3-26-819-15



Southco® Tubular
13.5 (.65)

Overmolded Keys

Key CH751
PK-10-10-05



Key R001
PK-10-10-05-KR001



Flat Keys

Key CH751
PK-10-10



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 keys

Single: PK-10-10

Pair: PK-10-01



E9 Quarter Turn Compression Latch

Zinc housing · Tool operated

Fixed or Adjustable grip · 20.1 mm size

- Quarter turn actuation
- Rotates and compresses at same time
- Consistent pre-set compression
- Tool operated for security

Material and Finish

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

Performance Details

Compression: 4.0 mm (.16 in)
 Maximum static load:
 Fixed Grip: 250 N (56 lbf)

Sealing Notes

NEMA 4 and IP66/IP67

Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf)
 Fixed Grip: Mounting screw torque 5 N·m (44 in·lbf)

Keys

See page 121

Accessories

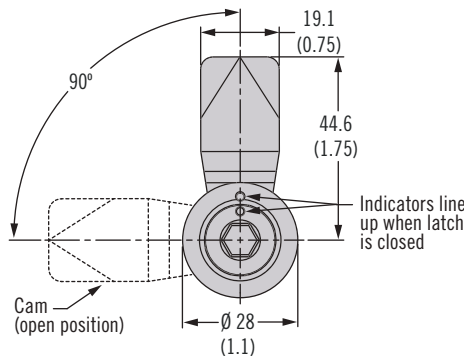
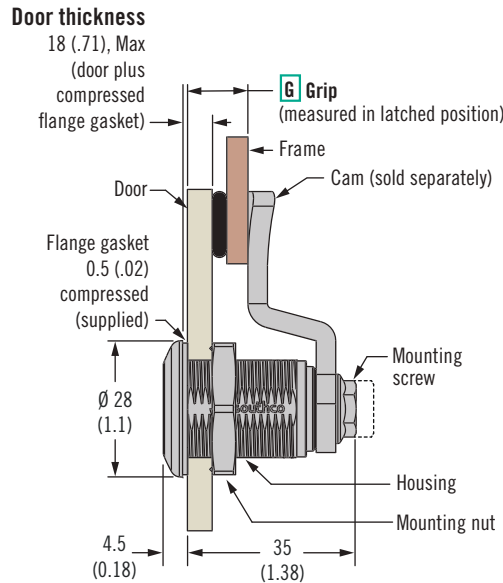
See pages 174-175

Optional Keeper for Roller Cam

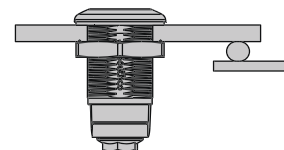
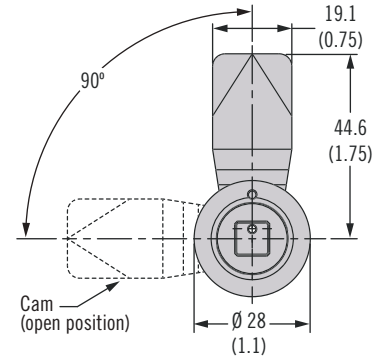
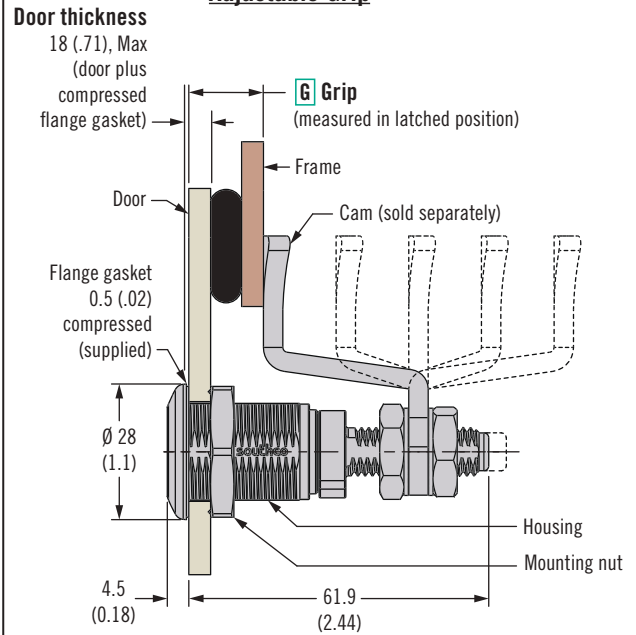
Part number E5-74-601-33
 (if selected, add 4 mm to grip calculation)



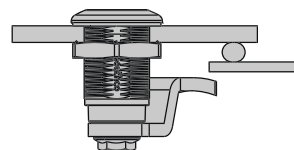
Fixed Grip



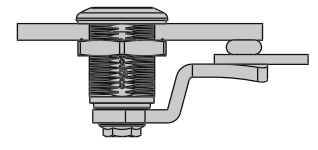
Adjustable Grip



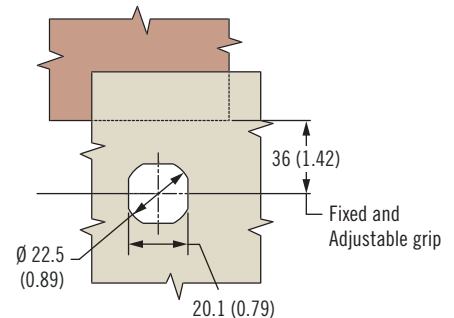
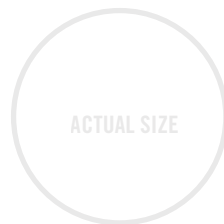
The first 30° turn: Cam rotates behind the frame



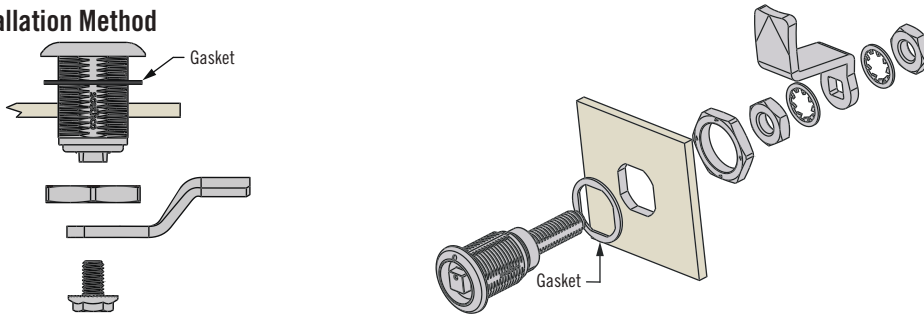
The cam then compresses the shaft and cam compress to pull the door against the frame



Completing the quarter turn motion, the shaft and cam compress to pull the door against the frame



Latch Installation Method



Part Number Selection

Order latch and cam separately

R Rotation ← → **M** Finish

E9 - A0 HH R - 0 M

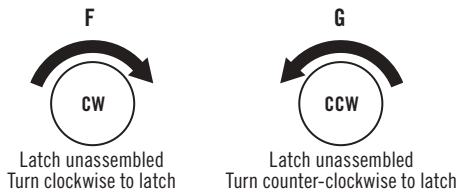
- 1 Black powder coated
- 2 Silver powder coated
- 3 Chrome Plated

HH Head Styles

00 Slotted recess	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	10 Bellcore 216	11 Bellcore electronics	12 Railway standard

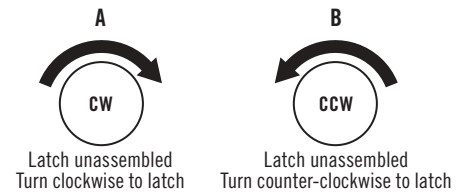
R Rotation

Fixed Grip

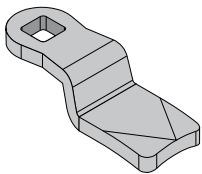


R Rotation

Adjustable Grip

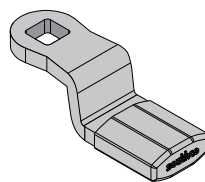


Cam Options – See Page 112



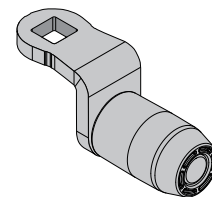
Cam

- Stable frame engagement
- Improved surface contact
- Minimal frame surface prep



Protected Cam

- Protective cam covering
- Provides smoother operation
- Reduces scratching frame



Roller Cam

- Reduces operating effort
- Minimize scratching frame finish
- Detented feel (with optional keeper)



E9 Quarter Turn Compression Latch Accessories

Cams

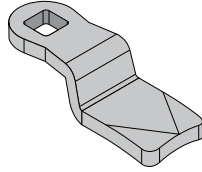
Material and Finish

Cam: Steel

Protected cam: Steel, nylon

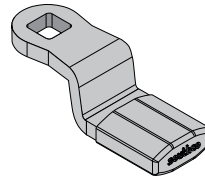
Roller cam: Steel, nylon

Cam Options



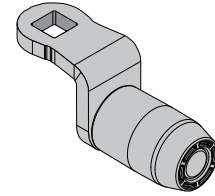
Cam

- Stable frame engagement
- Improved surface contact
- Minimal frame surface prep



Protected Cam

- Protective cam covering
- Provides smoother operation
- Reduces scratching frame



Roller Cam

- Reduces operating effort
- Minimize scratching frame finish
- Detented feel (with optional keeper)

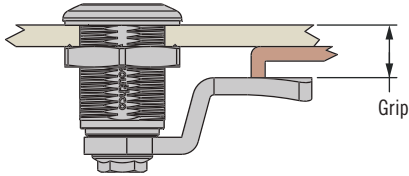
Fixed Grip Cams – for use with E9 zinc latches

Cam Part Number Table (order separately from latch)

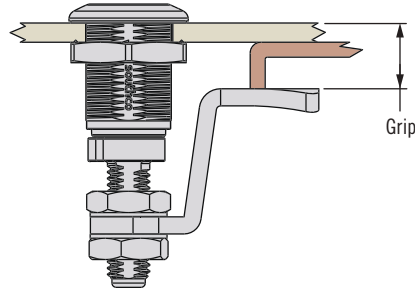
Grip	Cam Part Number	Grip	Protected Cam Part Number	Grip	Roller Cam Part Number
1 (.04)	E5-6126	1 (.04)	E5-6121-P	1 (.04)	E5-7116
3 (.12)	E5-6125	3 (.12)	E5-6120-P	3 (.12)	E5-7115
5 (.20)	E5-6124	5 (.20)	E5-6119-P	5 (.20)	E5-7114
7 (.28)	E5-6123	7 (.28)	E5-6118-P	7 (.28)	E5-7113
9 (.35)	E5-6101	9 (.35)	E5-6117-P	9 (.35)	E5-7112
11 (.43)	E5-6102	11 (.43)	E5-6116-P	11 (.43)	E5-7111
13 (.51)	E5-6103	13 (.51)	E5-6115-P	13 (.51)	E5-7110
15 (.59)	E5-6104	15 (.59)	E5-6114-P	15 (.59)	E5-7109
17 (.67)	E5-6105	17 (.67)	E5-6113-P		
19 (.75)	E5-6106	19 (.75)	E5-6112-P		
21 (.83)	E5-6107	21 (.83)	E5-6111-P		
23 (.91)	E5-6108	23 (.91)	E5-6110-P		
25 (.98)	E5-6109	25 (.98)	E5-6109-P	25 (.98)	E5-7109
27 (1.06)	E5-6110	27 (1.06)	E5-6110-P	27 (1.06)	E5-7110
29 (1.14)	E5-6111	29 (1.14)	E5-6111-P	29 (1.14)	E5-7111
31 (1.22)	E5-6112	31 (1.22)	E5-6112-P	31 (1.22)	E5-7112
33 (1.30)	E5-6113	33 (1.30)	E5-6113-P	33 (1.30)	E5-7113
35 (1.38)	E5-6114	35 (1.38)	E5-6114-P	35 (1.38)	E5-7114
37 (1.46)	E5-6115	37 (1.46)	E5-6115-P	37 (1.46)	E5-7115
39 (1.54)	E5-6116	39 (1.54)	E5-6116-P	39 (1.54)	E5-7116
41 (1.61)	E5-6117	41 (1.61)	E5-6117-P	41 (1.61)	E5-7117
43 (1.69)	E5-6118	43 (1.69)	E5-6118-P	43 (1.69)	E5-7118
45 (1.77)	E5-6119	45 (1.77)	E5-6119-P	45 (1.77)	E5-7119
47 (1.85)	E5-6120	47 (1.85)	E5-6120-P	47 (1.85)	E5-7120
49 (1.93)	E5-6121	49 (1.93)	E5-6121-P	49 (1.93)	E5-7121
51 (2.01)	E5-6122	51 (2.01)	E5-6122-P	51 (2.01)	E5-7122
		53 (2.09)	E5-6123-P		

If grip falls between two choices, use smaller option

Fixed Grip Latch



Adjustable Grip Latch



Adjustable Grip Cams – for use with E9 zinc latches

Cam Part Number Table (order separately from latch)			
Minimum Grip	Maximum Grip	Cam Type	Part Number
9 (.35)	20.5 (.81)	Offset cam	E5-4128
17 (.67)	28.5 (1.12)	Offset cam	E5-4124
25 (.98)	36.5 (1.44)	Offset cam	E5-4103
33 (1.30)	44.5 (1.75)	Offset cam	E5-4107
41 (1.61)	52.5 (2.07)	Offset cam	E5-4111
49 (1.93)	60.5 (2.38)	Offset cam	E5-4115
57 (2.24)	68.5 (2.70)	Offset cam	E5-4119
63 (2.48)	74.5 (2.93)	Offset cam	E5-4122

Protected Cam Part Number Table (order separately from latch)			
Minimum Grip	Maximum Grip	Cam Type	Part Number
14 (.55)	25.5 (1.00)	Deep offset cam, forward	E5-4001
25.5 (1.00)	37 (1.46)	Offset cam, forward	E5-4002
37 (1.46)	48.5 (1.91)	Straight cam	E5-4003
48.5 (1.91)	60 (2.36)	Offset cam, reverse	E5-4002
60 (2.36)	71.5 (2.81)	Deep offset cam, reverse	E5-4001

Roller Cam Part Number Table (order separately from latch)			
Minimum Grip	Maximum Grip	Cam Type	Part Number
3.5 (.14)	15 (.59)	Offset cam, forward	E5-4505
7.5 (.30)	19 (.75)	Offset cam, forward	E5-4506
17.5 (.69)	29 (1.14)	Offset cam, forward	E5-4507
27.5 (1.08)	39 (1.54)	Offset cam, forward	E5-4508
37 (1.46)	48.5 (1.91)	Offset cam, reversed	E5-4508
47 (1.85)	58.5 (2.30)	Offset cam, reversed	E5-4507
57 (2.24)	68.5 (2.70)	Offset cam, forward	E5-4506
61 (2.40)	72.5 (2.85)	Offset cam, forward	E5-4505

Optional Keeper for Roller Cam

Part number E5-74-601-33

(if selected, add 4 mm to grip calculation)





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

Material and Finish

Black powder coat version:
 Handle: Aluminum, Zinc Alloy
 Cup and hardware: Steel
 Stainless Steel version:
 Handle, cup and hardware: Stainless steel

Performance Details

Maximum static load:
 1000 N (225 lbf)
 Compression: 6.4 mm (.25 in)

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.
 Maximum tightening torque:
 20 N·m (177 in·lbf)

Keys

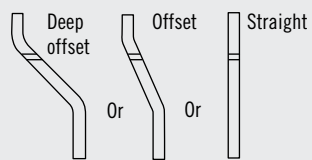
See page 121

Part Number Selection

See table
 For Standard and Medium cup,
 Order both parts separately

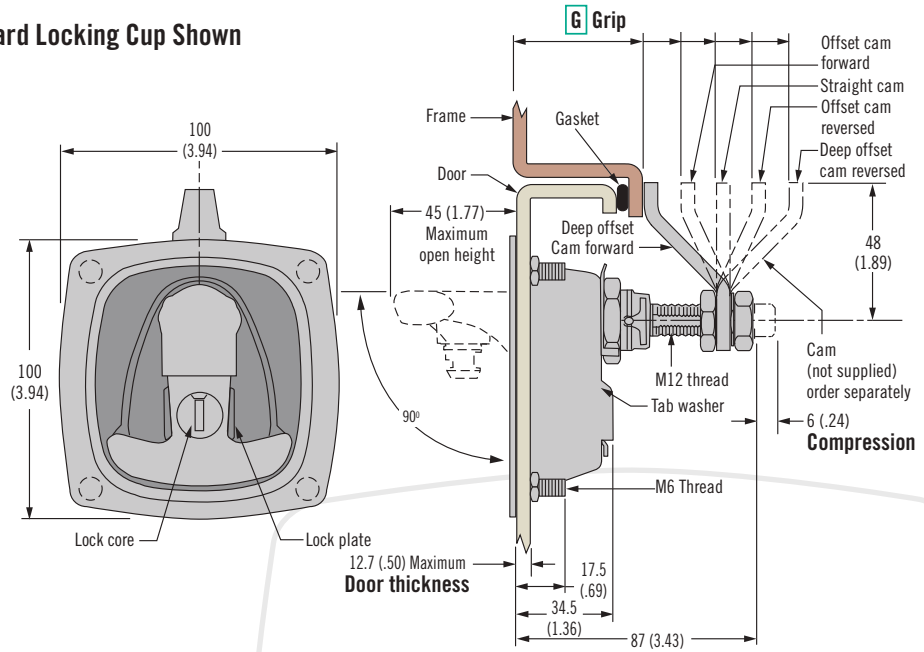
Choose latch body style

Choose cam (see table)

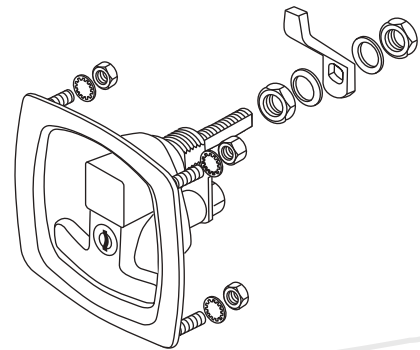
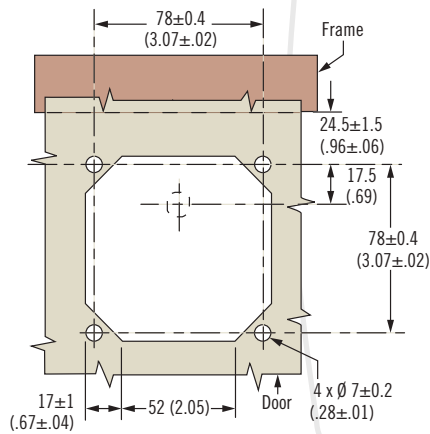


Large cup comes standard with cam part number 62-0-40145

Standard Locking Cup Shown



ACTUAL SIZE



Latch part number (no cam)

N2 - 2 - C 0 L - 01 - F

- C** Cup style
 - 3 Standard cup
 - 5 Medium cup
 - 7 Large cup
- L** Locking style
 - 0 Non-locking
 - 1 Key-locking keyed alike CH751 (2 keys supplied)
- F** Finish
 - 5 Black powder coated
 - 20 Polished stainless (Only offered with standard cup style)

Cam Part Number Table (order separately)

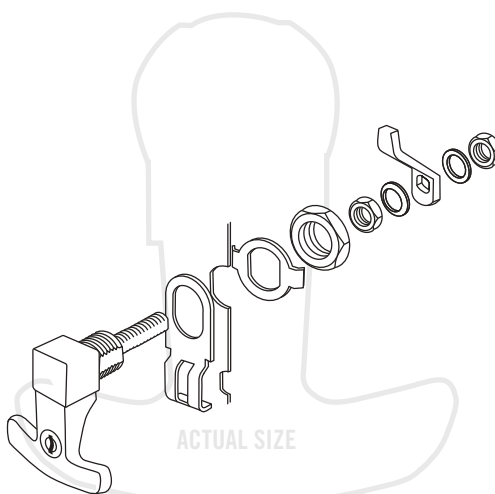
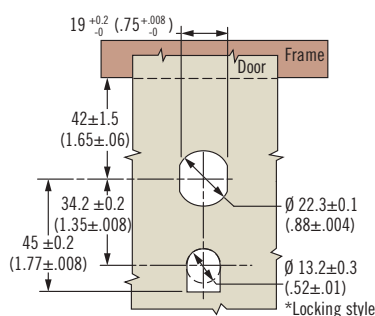
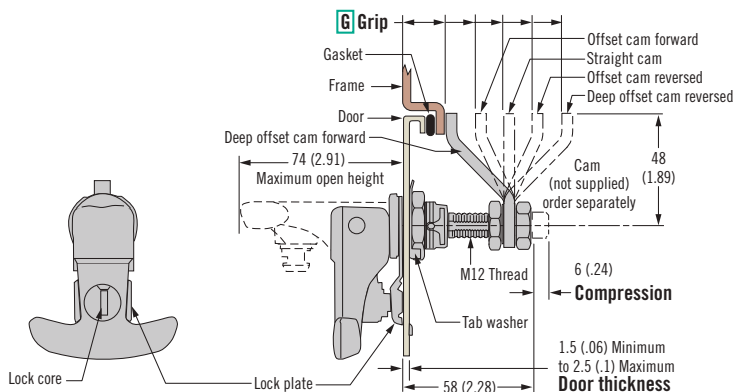
Part Number		Grip		Cam Type
Steel	Stainless Steel	Minimum	Maximum	
N2-21-101-12	N2-21-101-24	28 (1.10)	43 (1.69)	Deep offset cam, forward
		88 (3.46)	104 (4.09)	Deep offset cam, reversed
N2-21-102-12	N2-21-102-24	43 (1.69)	58 (2.28)	Offset cam, forward
		73 (2.87)	88 (3.46)	Offset cam, reversed
N2-21-103-12	N2-21-103-24	58 (2.28)	73 (2.87)	Straight



N2 Compression Latch

Lift & turn series · Folding T-handle · No cup style · Adjustable grip

Locking Shown



- Heavy-duty performance
- Low profile when latched
- Easy grip adjustment
- Intuitive operation

Material and Finish

Black powder coat version:
 Handle: Aluminum, Zinc Alloy
 Hardware: Steel
 Stainless Steel version:
 Handle and hardware:
 Stainless steel

Performance Details

Maximum static load:
 1000 N (225 lbf)
 Compression: 6.4 mm (.25 in)

Installation Notes

1. Insert latch and tighten mounting nut.
2. Bend tab washer over mounting nut.
3. With latch in closed position, adjust jam nuts to position cam at correct grip. Maximum tightening torque: 20 N·m (177 in·lbf)

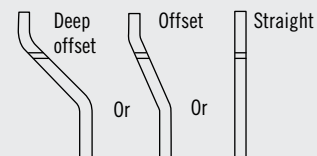
Keys

See page 121

Order both parts separately

Choose latch body style

Choose cam (see table)



Part Number Selection

See table

F Finish
 5 Black powder coated
 20 Polished stainless

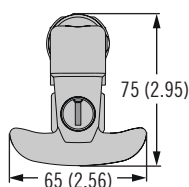
L Locking style
 0 Non-locking
 1 Key-locking keyed alike
 CH751 (2 keys supplied)

Latch part number
 (no cam)

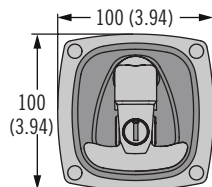
N2 - 2 - 10 L - 01 - F

Cam Part Number Table (order separately)				
Part Number		Grip		Cam Type
Steel	Stainless Steel	Minimum	Maximum	
N2-21-101-12	N2-21-101-24	2.5 (.10)	15 (.59)	Deep offset cam, forward
		60 (2.36)	75 (2.95)	Deep offset cam, reversed
N2-21-102-12	N2-21-102-24	15 (.59)	30 (1.18)	Offset cam, forward
		45 (1.77)	60 (2.36)	Offset cam, reversed
N2-21-103-12	N2-21-103-24	30 (1.18)	45 (1.77)	Straight

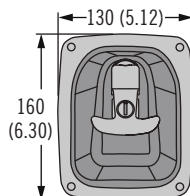
N2 Product Family



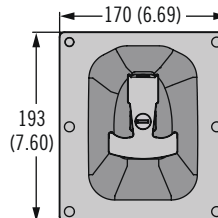
No Cup Style



Standard Cup



Medium Cup



Large Cup



Dimensions in millimeters (inch) unless otherwise stated

www.southco.com/N2

Notes

Other styles available
 Custom colors and keycodes
 Contact Southco for details



62 Compression Latch

Lift & turn series · Flush style · Adjustable grip

- Low profile
- Easy grip adjustment
- Intuitive operation

Material and Finish

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

Performance Details

Maximum static load: 220N (50 lbf)
 Compression: 2mm (.08 in)

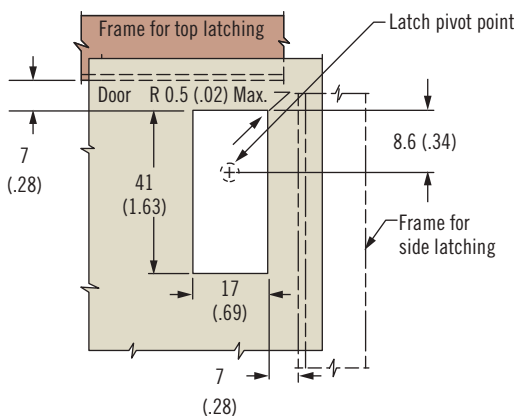
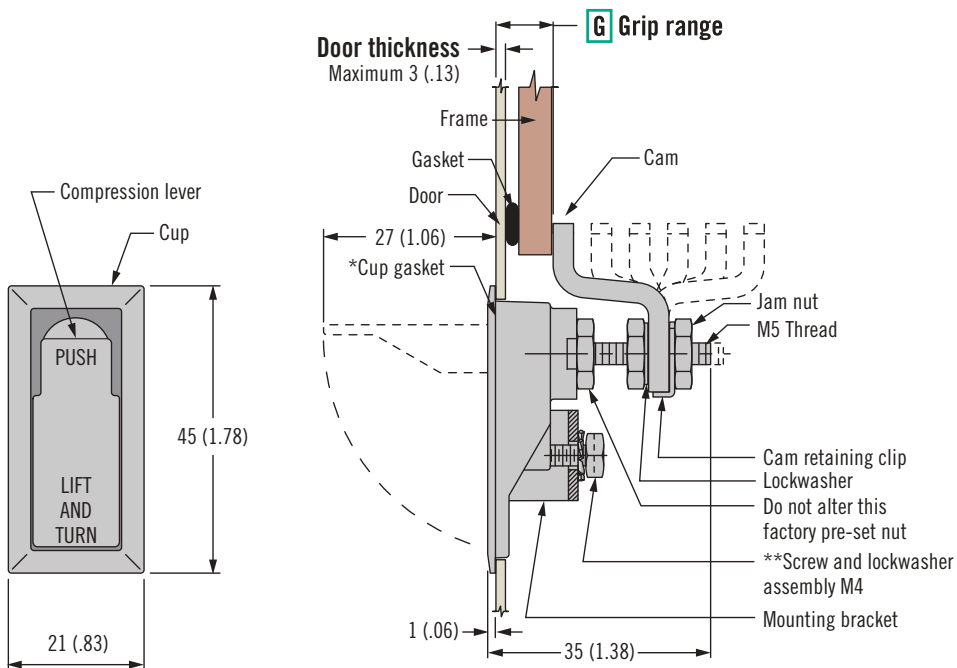
Sealing Notes

Sealing the mounting screw threads required.

Installation Notes

Screw and lockwasher assembly M4 x 10. For door thickness greater than 3 (.11) calculate screw length using the following formula:
 Door thickness + 7 (.28)

Add 0.4 (.02) to door thickness when using cup gasket



Part Number Selection

See table



S Sealing option

- 0 No Gasket
- 4 Gasket Included (see sealing and installation notes)

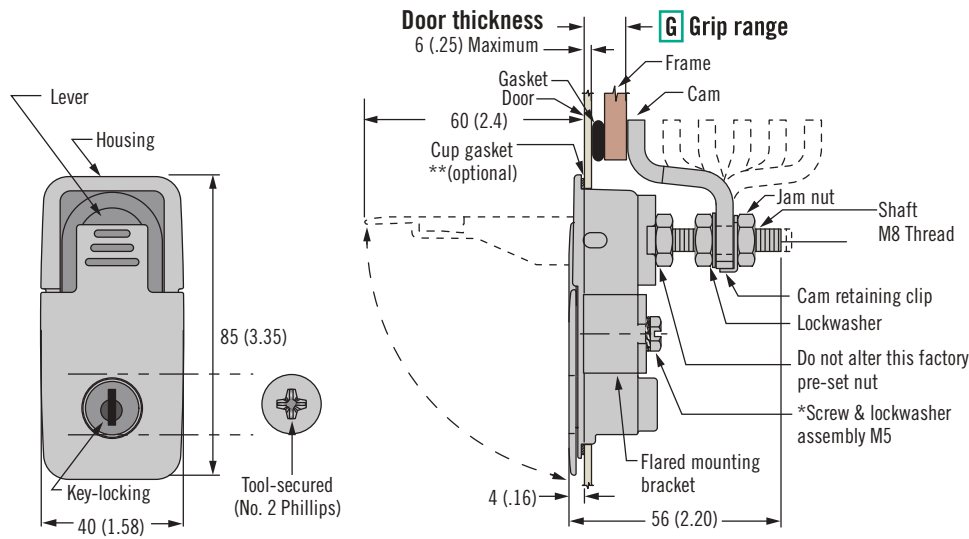
F Finish

- 1 Polished chrome
- 2 Brushed chrome
- 5 Black powder coated

G Grip	Minimum	Maximum	Cam Type
1	4.5 (.17)	10.5 (.41)	Deep offset cam, forward
	34.5 (1.35)	40.5 (1.59)	Deep offset cam, reversed
2	10.5 (.41)	16.5 (.65)	Offset cam forward
	28.5 (1.12)	34.5 (1.35)	Offset cam reverse
3	16.5 (.65)	22.5 (.88)	Shallow offset cam, forward
	22.5 (.88)	28.5 (1.12)	Shallow offset cam, reversed

62 Compression Latch

Lift & turn series · Flush style · Adjustable grip



- Low profile
- Intuitive operation

Material and Finish

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

Performance Details

Maximum static load: 440 N (100 lbf)
Compression: 3mm (.12 in)

Sealing Notes

Environmental sealing is achieved by using a cup gasket and sealing the mounting screw threads.

Installation Notes

Screw and lockwasher assembly M5 x 16. For door thickness greater than 6 (.25) calculate screw length using the following formula:

Door thickness + 10 (.39)

Add 0.4 (.02) to door thickness when using cup gasket

Accessories

Cup gasket:
Part number: 62-973-431

Keys

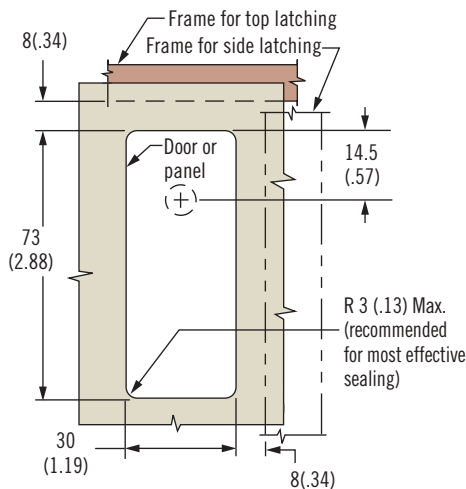
PK-10-01
See page 121

Notes

For lock core selection and a complete overview of the *SOUTHCO*® Key-Choice System see page 190

Part Number Selection

See table



62-4 L - G F 1 - P

- L Lock style**
 - 0 Non-locking
 - 2 Key-locking without dust shutter keyed alike CH751
 - 3 Tool secured No. 2 Phillips
 - 20 4 mm Hex Recess
 - 21 Locking without lock core (order separately see page 190)
- P Packaging option**
 - 3 Layer packed
 - 2 Individually packed
- F Finish**
 - 0 Textured chrome
 - 1 Polished chrome
 - 5 Black powder coated

G Grip	Minimum	Maximum	Cam Type
1	6 (.23)	16 (.63)	Deep offset cam, forward
	56 (2.20)	66 (2.59)	Deep offset cam, reversed
2	16 (.63)	26 (1.02)	Offset cam forward
	46 (1.81)	56 (2.20)	Offset cam reverse
3	26 (1.02)	36 (1.41)	Shallow offset cam, forward
	36 (1.41)	46 (1.81)	Shallow offset cam, reversed



62 Compression Latch

Lift & turn series · Flush style · Adjustable grip

- Low profile when latched
- Easy grip adjustment
- Intuitive operation

Material and Finish

Zinc alloy, chrome brushed and steel, zinc plated

Performance Details

Maximum static load: 1250 N (280 lbf)
 Compression: 5.5 mm (.22 in)

Installation Notes

*Screw and lockwasher assembly 5/16-18UNC x 3/4.
 For door thickness greater than 6 (.25) calculate screw length using the following formula:
 Door thickness + 7 (.28)

Accessories

Actuator for three point locking assembly (order separately)
 Part number: 62-19-501-15

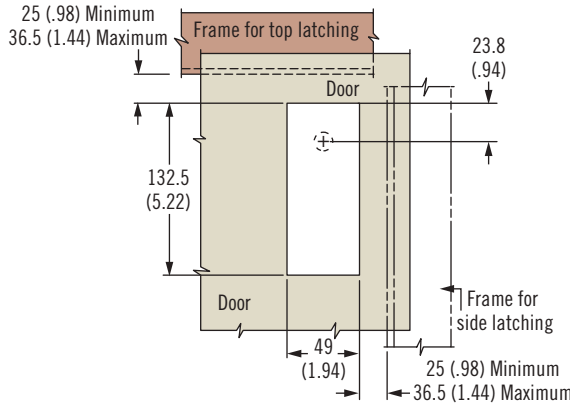
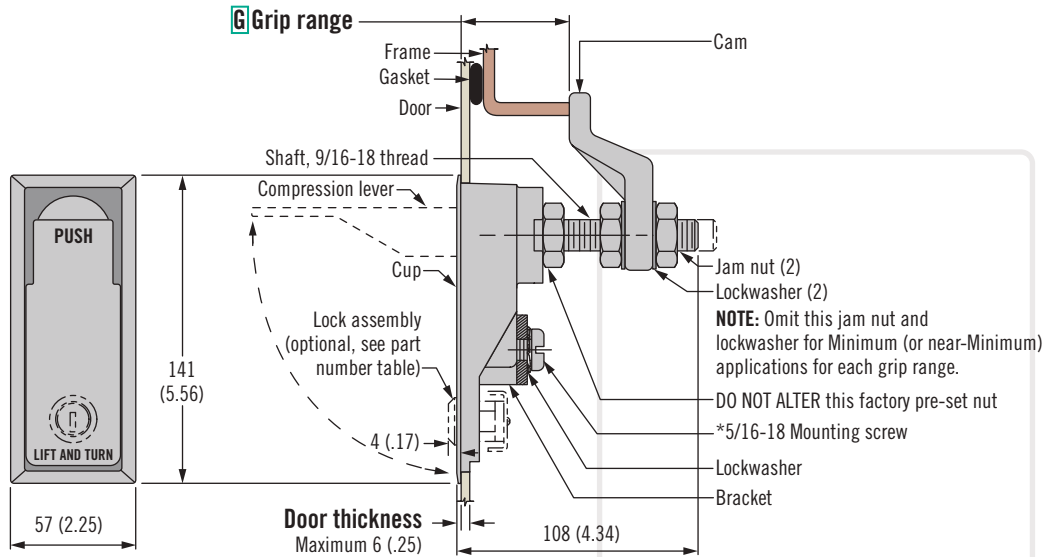


Keys

See page 121

Part Number Selection

See table



ACTUAL SIZE

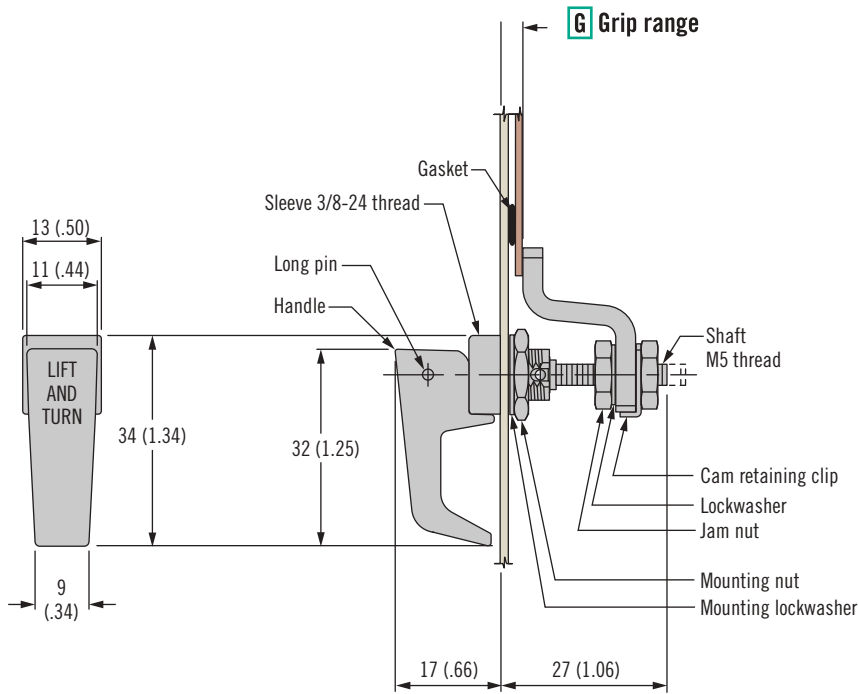
H Head style

- 0 Non-locking
- 1 Key-locking keyed alike CH751 (two flat keys supplied)

62 - 10 - 8 **H** 1 - 20

62 Compression Latch

Lift & turn series · Handle style · Adjustable grip



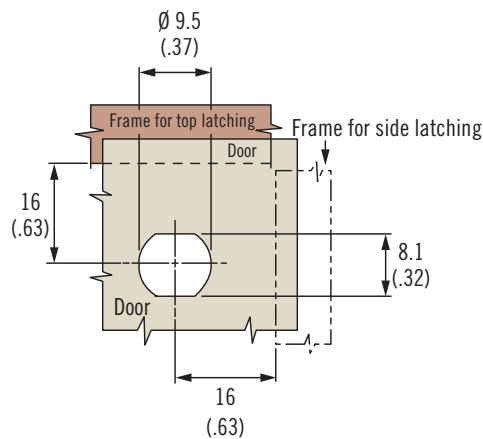
- Easy grip adjustment
- Intuitive operation

Material and Finish

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

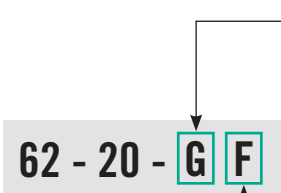
Performance Details

Maximum static load: 220 N (50 lbf)
Compression: 3 mm (.11 in)



Part Number Selection

See table



F Finish

- 1 Polished chrome
- 5 Black powder coated

G Grip	Minimum	Maximum	Cam Type
1	0 (0)	4 (.16)	Deep offset cam, forward
	28 (1.10)	34 (1.34)	Deep offset cam, reversed
2	4 (.16)	10 (.39)	Offset cam, forward
	22 (.87)	28 (1.10)	Offset cam, reverse
3	10 (.39)	16 (.63)	Shallow offset cam, forward
	16 (.63)	22 (.87)	Shallow offset cam, reversed



62 Compression Latch

Lift & turn series · Handle style · Adjustable grip

- Easy grip adjustment
- Intuitive operation

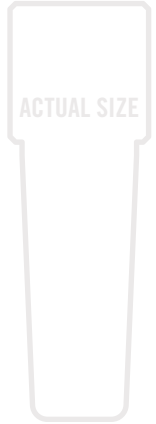
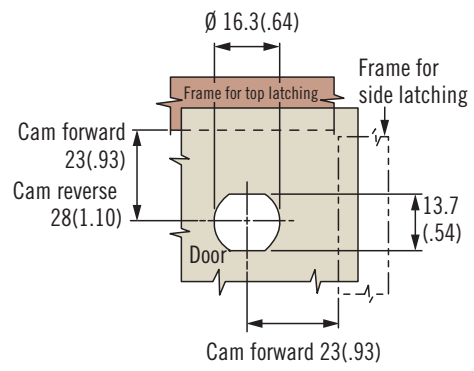
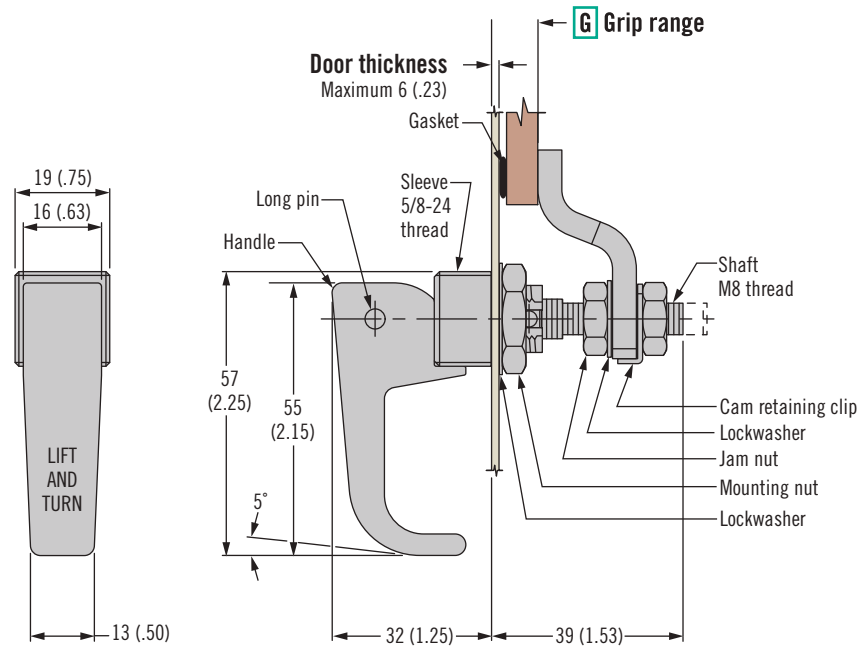
Material and Finish

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

Performance Details

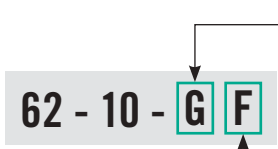
Maximum static load: 550 N (125 lbf)

Compression: 5 mm (.19 in)



Part Number Selection

See table

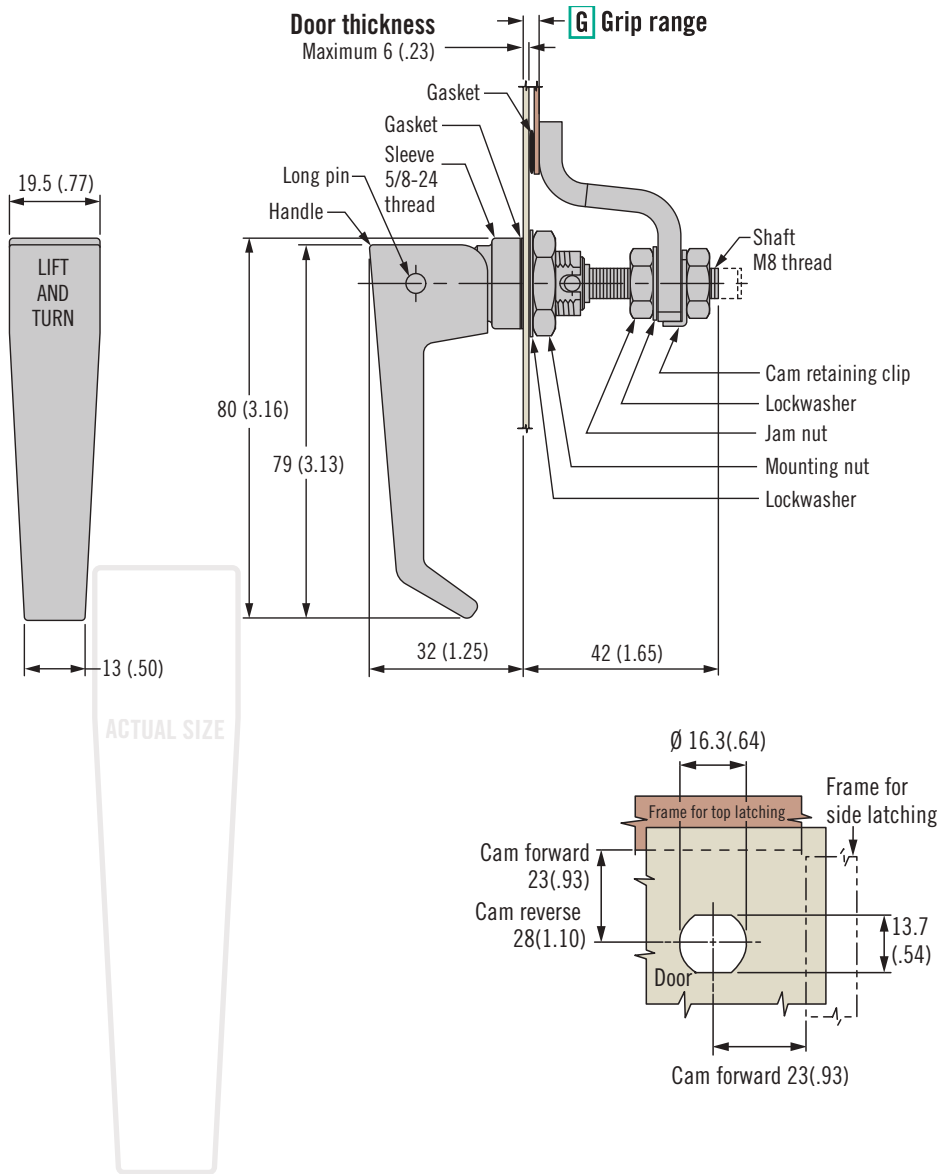


- F Finish**
- 1 Polished chrome
 - 2 Brushed chrome
 - 3 Natural with chemical protective film
 - 5 Black powder coated

G Grip	Minimum	Maximum	Cam Type
1	42 (1.66)	52 (2.05)	Deep offset cam, reversed
	2 (.08)	12 (.47)	Offset cam, forward
2	32 (1.25)	42 (1.66)	Offset cam, reversed
	12 (.47)	22 (.87)	Shallow offset cam, forward
3	22 (.87)	32 (1.25)	Shallow offset cam, reversed

62 Compression Latch

Lift & turn series · Handle style · Adjustable grip



- Easy grip adjustment
- Intuitive operation

Material and Finish

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

Performance Details

Maximum static load: 670 N (150 lbf)
Compression: 5 mm (.19 in)

Notes

Larger sizes available, visit www.southco.com/62

Part Number Selection

See table

62 - 30 - G F

F Finish

- 1 Polished chrome
- 2 Brushed chrome
- 5 Black powder coated

G Grip	Minimum	Maximum	Cam Type
1	0 (0)	5 (.20)	Deep offset cam, forward
	45 (1.77)	55 (2.16)	Deep offset cam, reversed
2	5 (.20)	15 (.59)	Offset cam, forward
	35 (1.37)	45 (1.77)	Offset cam, reversed
3	15 (.59)	25 (.98)	Shallow forward
	25 (.98)	35 (1.37)	Shallow reversed



62 Compression Latch

Lift & turn series · Flush style · Adjustable grip

- Low profile
- Easy grip adjustment
- Intuitive operation

Material and Finish

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

Performance Details

Maximum static load: 220N (50 lbf)
 Compression: 2mm (.08 in)

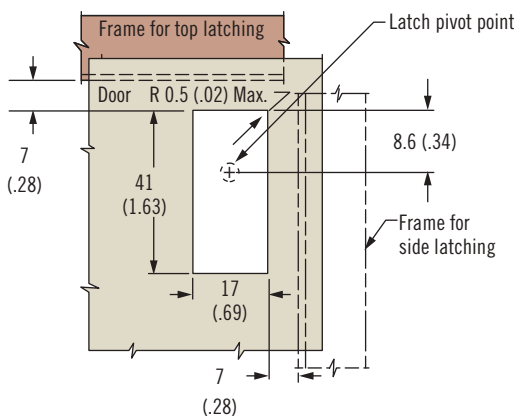
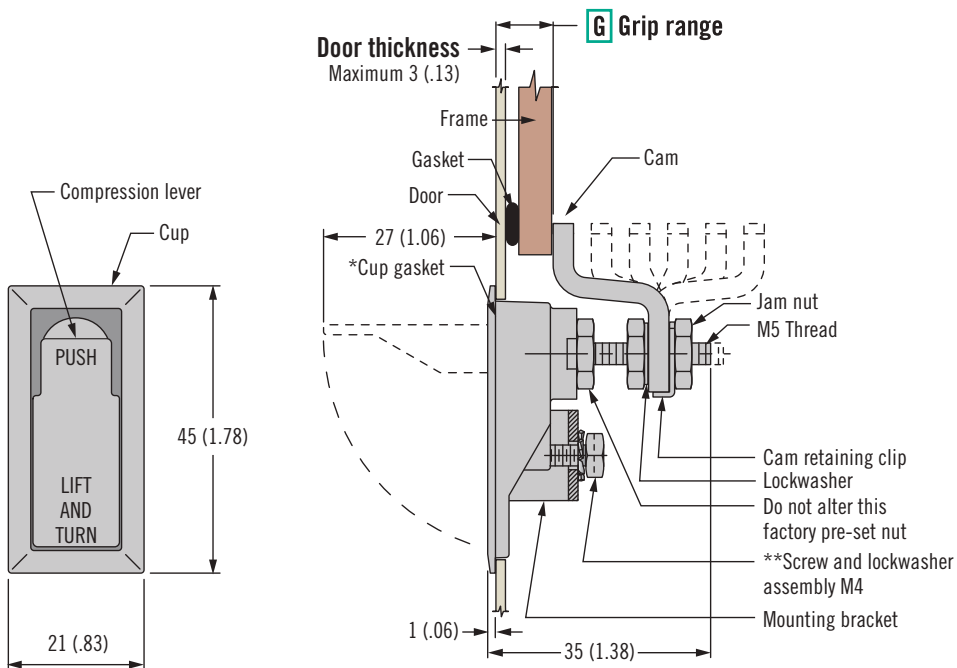
Sealing Notes

Sealing the mounting screw threads required.

Installation Notes

Screw and lockwasher assembly M4 x 10. For door thickness greater than 3 (.11) calculate screw length using the following formula:
 Door thickness + 7 (.28)

Add 0.4 (.02) to door thickness when using cup gasket



Part Number Selection

See table



S Sealing option

- 0 No Gasket
- 4 Gasket Included (see sealing and installation notes)

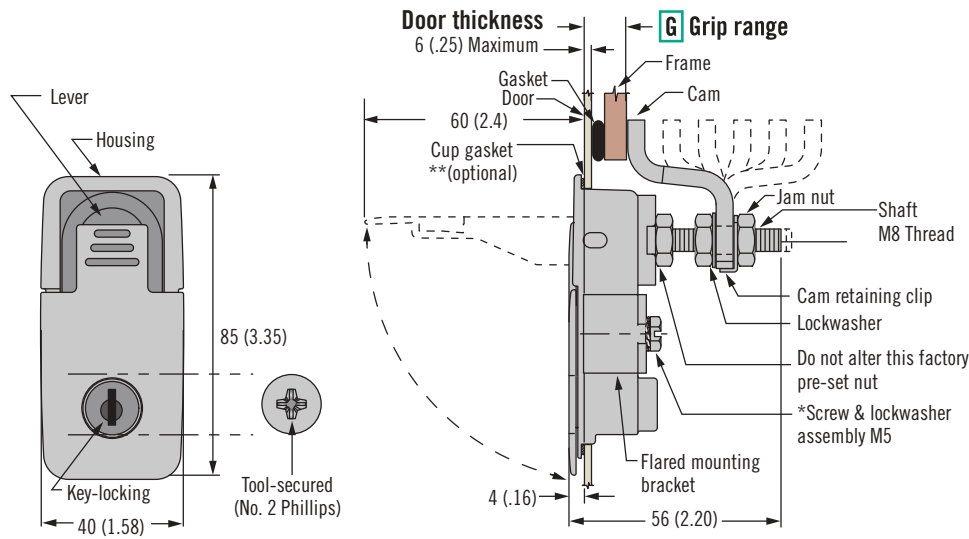
F Finish

- 1 Polished chrome
- 2 Brushed chrome
- 5 Black powder coated

G Grip	Minimum	Maximum	Cam Type
1	4.5 (.17)	10.5 (.41)	Deep offset cam, forward
	34.5 (1.35)	40.5 (1.59)	Deep offset cam, reversed
2	10.5 (.41)	16.5 (.65)	Offset cam forward
	28.5 (1.12)	34.5 (1.35)	Offset cam reverse
3	16.5 (.65)	22.5 (.88)	Shallow offset cam, forward
	22.5 (.88)	28.5 (1.12)	Shallow offset cam, reversed

62 Compression Latch

Lift & turn series · Flush style · Adjustable grip



- Low profile
- Intuitive operation

Material and Finish

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

Performance Details

Maximum static load: 440 N (100 lbf)
Compression: 3mm (.12 in)

Sealing Notes

Environmental sealing is achieved by using a cup gasket and sealing the mounting screw threads.

Installation Notes

Screw and lockwasher assembly M5 x 16. For door thickness greater than 6 (.25) calculate screw length using the following formula:

Door thickness + 10 (.39)

Add 0.4 (.02) to door thickness when using cup gasket

Accessories

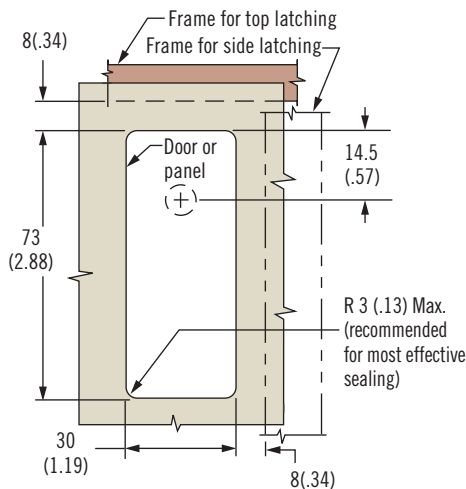
Cup gasket:
Part number: 62-973-431

Keys

PK-10-01
See page 121

Notes

For lock core selection and a complete overview of the *SOUTHCO*® Key-Choice System see page 190



Part Number Selection

See table

62 - 4 L - G F 1 - P

- L Lock style**
 - 0 Non-locking
 - 2 Key-locking without dust shutter keyed alike CH751
 - 3 Tool secured No. 2 Phillips
 - 20 4 mm Hex Recess
 - 21 Locking without lock core (order separately see page 190)
- P Packaging option**
 - 3 Layer packed
 - 2 Individually packed
- F Finish**
 - 0 Textured chrome
 - 1 Polished chrome
 - 5 Black powder coated

G Grip	Minimum	Maximum	Cam Type
1	6 (.23)	16 (.63)	Deep offset cam, forward
	56 (2.20)	66 (2.59)	Deep offset cam, reversed
2	16 (.63)	26 (1.02)	Offset cam forward
	46 (1.81)	56 (2.20)	Offset cam reverse
3	26 (1.02)	36 (1.41)	Shallow offset cam, forward
	36 (1.41)	46 (1.81)	Shallow offset cam, reversed



62 Compression Latch

Lift & turn series · Flush style · Adjustable grip

- Low profile when latched
- Easy grip adjustment
- Intuitive operation

Material and Finish

Zinc alloy, chrome brushed and steel, zinc plated

Performance Details

Maximum static load: 1250 N (280 lbf)
 Compression: 5.5 mm (.22 in)

Installation Notes

*Screw and lockwasher assembly 5/16-18UNC x 3/4.
 For door thickness greater than 6 (.25) calculate screw length using the following formula:
 Door thickness + 7 (.28)

Accessories

Actuator for three point locking assembly (order separately)
 Part number: 62-19-501-15

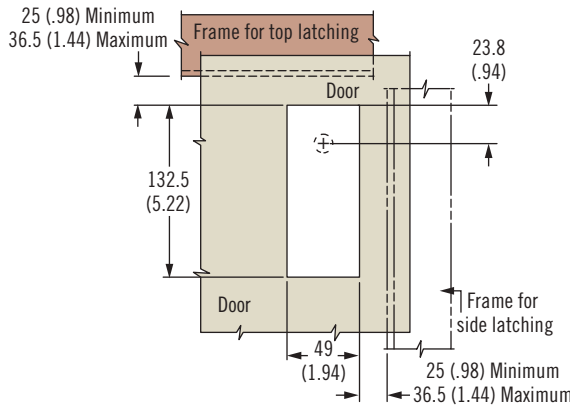
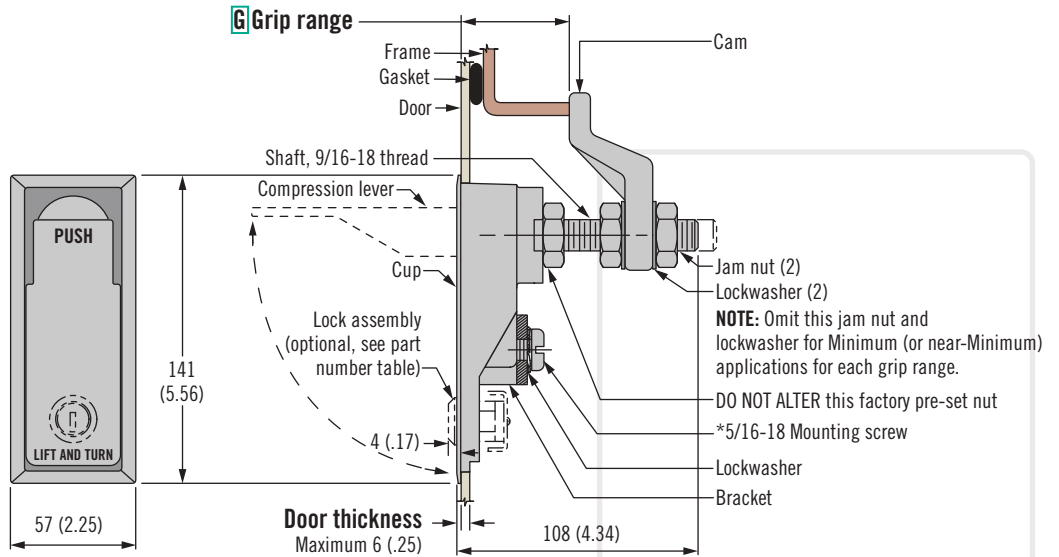


Keys

See page 121

Part Number Selection

See table



ACTUAL SIZE

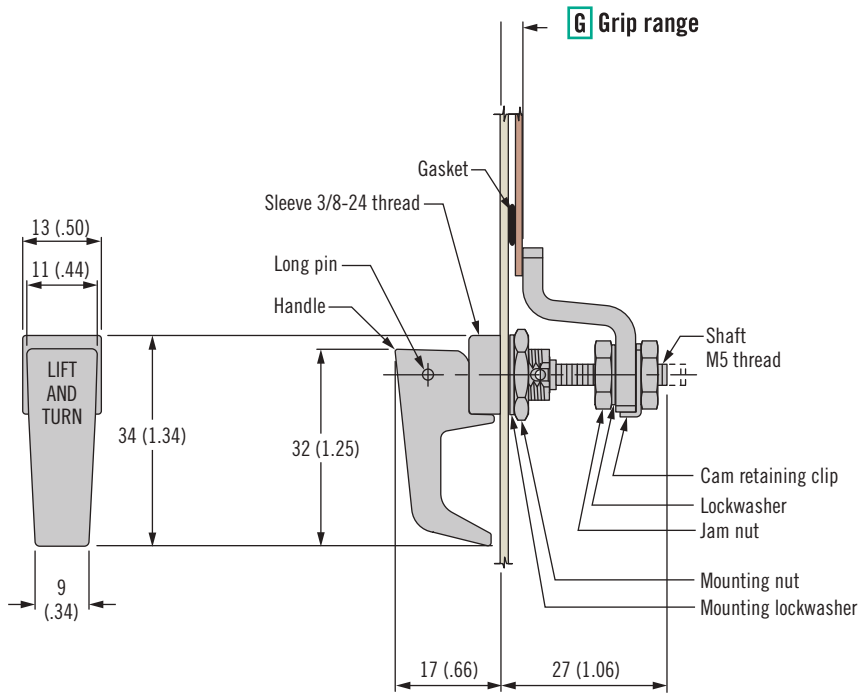
H Head style

- 0 Non-locking
- 1 Key-locking keyed alike CH751 (two flat keys supplied)

62 - 10 - 8 **H** 1 - 20

62 Compression Latch

Lift & turn series · Handle style · Adjustable grip



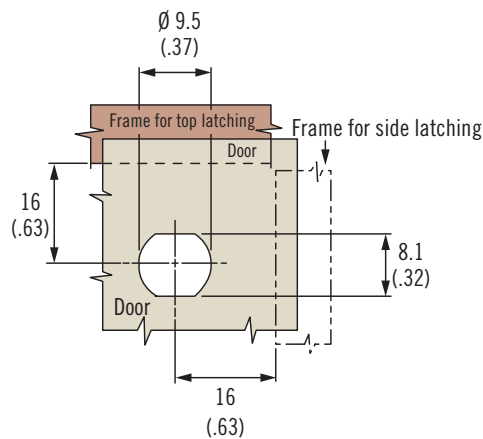
- Easy grip adjustment
- Intuitive operation

Material and Finish

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

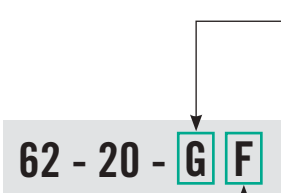
Performance Details

Maximum static load: 220 N (50 lbf)
Compression: 3 mm (.11 in)



Part Number Selection

See table



F Finish

- 1 Polished chrome
- 5 Black powder coated

G Grip	Minimum	Maximum	Cam Type
1	0 (0)	4 (.16)	Deep offset cam, forward
	28 (1.10)	34 (1.34)	Deep offset cam, reversed
2	4 (.16)	10 (.39)	Offset cam, forward
	22 (.87)	28 (1.10)	Offset cam, reverse
3	10 (.39)	16 (.63)	Shallow offset cam, forward
	16 (.63)	22 (.87)	Shallow offset cam, reversed



62 Compression Latch

Lift & turn series · Handle style · Adjustable grip

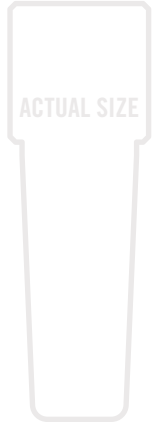
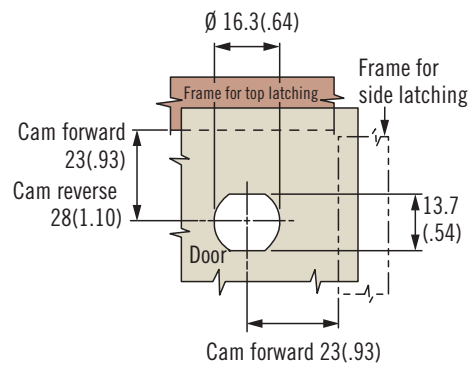
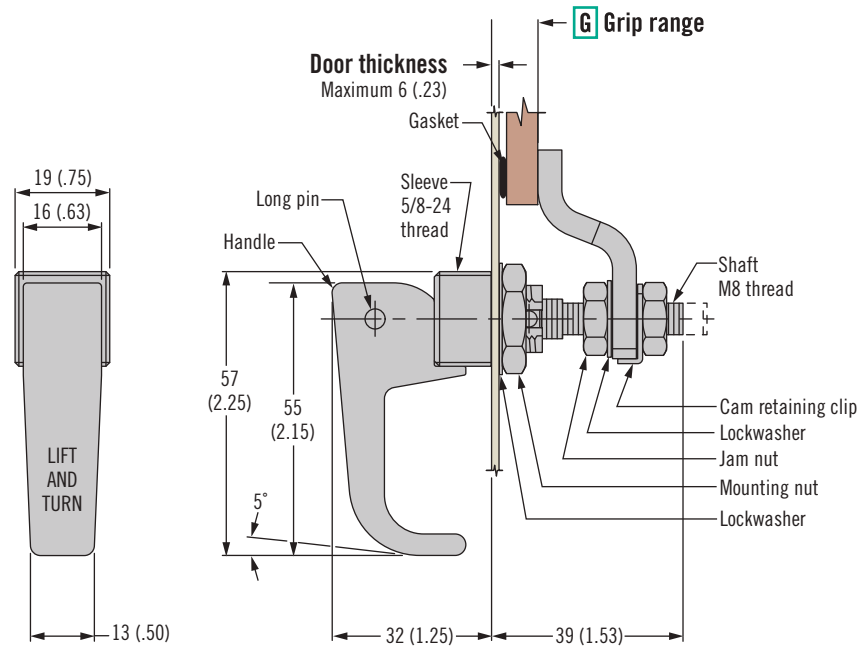
- Easy grip adjustment
- Intuitive operation

Material and Finish

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

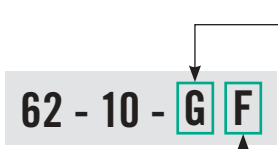
Performance Details

Maximum static load: 550 N (125 lbf)
 Compression: 5 mm (.19 in)



Part Number Selection

See table

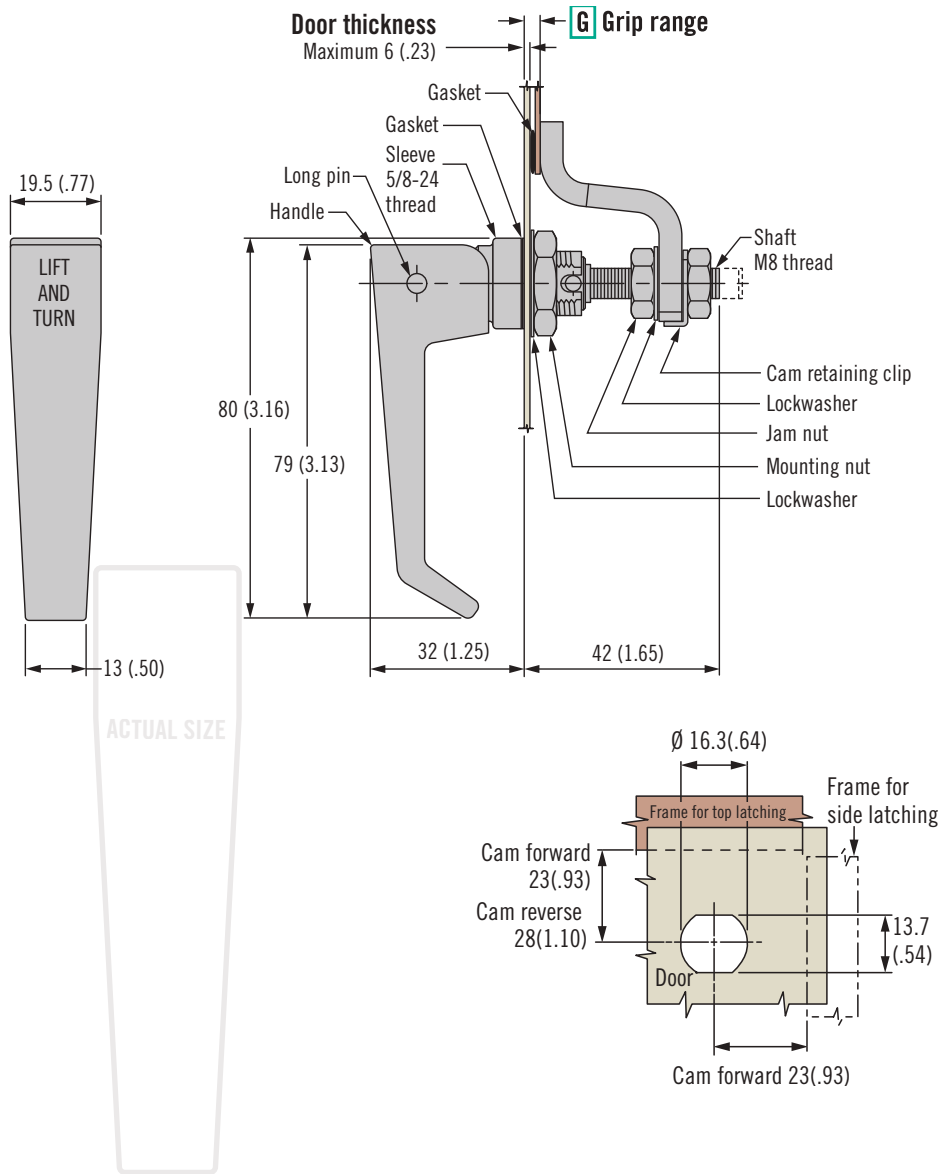


- F Finish**
- 1 Polished chrome
 - 2 Brushed chrome
 - 3 Natural with chemical protective film
 - 5 Black powder coated

G Grip	Minimum	Maximum	Cam Type
1	42 (1.66)	52 (2.05)	Deep offset cam, reversed
	2 (.08)	12 (.47)	Offset cam, forward
2	32 (1.25)	42 (1.66)	Offset cam, reversed
	12 (.47)	22 (.87)	Shallow offset cam, forward
3	22 (.87)	32 (1.25)	Shallow offset cam, reversed

62 Compression Latch

Lift & turn series · Handle style · Adjustable grip



- Easy grip adjustment
- Intuitive operation

Material and Finish

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

Performance Details

Maximum static load: 670 N (150 lbf)
Compression: 5 mm (.19 in)

Notes

Larger sizes available, visit www.southco.com/62

Part Number Selection

See table

62 - 30 - G F

F Finish

- 1 Polished chrome
- 2 Brushed chrome
- 5 Black powder coated

G Grip	Minimum	Maximum	Cam Type
1	0 (0)	5 (.20)	Deep offset cam, forward
	45 (1.77)	55 (2.16)	Deep offset cam, reversed
2	5 (.20)	15 (.59)	Offset cam, forward
	35 (1.37)	45 (1.77)	Offset cam, reversed
3	15 (.59)	25 (.98)	Shallow forward
	25 (.98)	35 (1.37)	Shallow reversed



M1 20 Series Compression Latch

Cast 316 stainless steel · Lift & turn · Adjustable grip
50mm (2") size

- Consistent pre-set compression
- Easy grip adjustment
- Flush round hole install

Material and Finish

Cast 316 grade stainless steel

Performance Details

Short cam

Maximum static load:
460 N (103 lbf)

Long cam

Maximum static load: 350 N (78 lbf)

Sealing Notes

NEMA 4 / IP66 sealing is achieved by using supplied flange gasket

Keys

Lock style 8

Part number: M1-546



Lock style 9

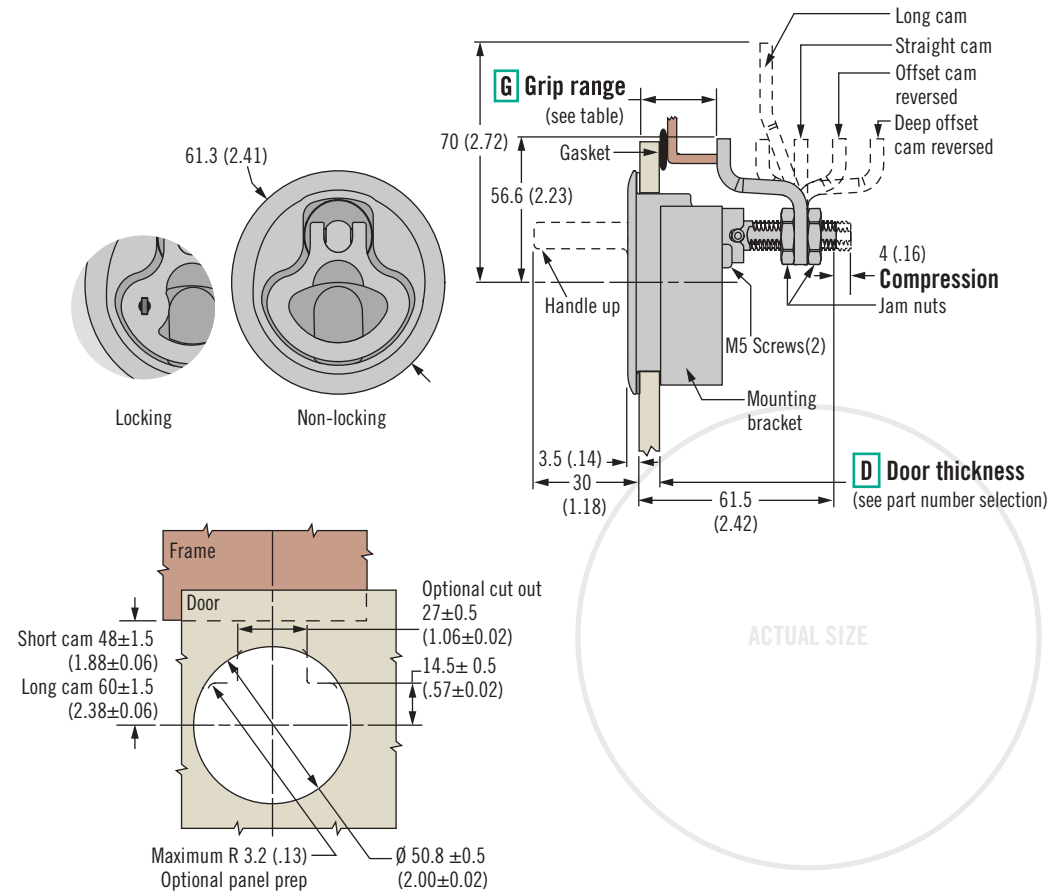


Part number: M1-525-39-S008

Part Number Selection

See table

See page 257 for complimentary styled push to close version



L Lock style

- 3 Non-locking
- 8 Locking (2 keys supplied)
- 9 Key-locking keyed alike S008 (2 overmolded keys supplied)

F Finish

- 6 Stainless steel, Black PVD
- 8 Stainless steel

M1 - 20 - L D - G F

D	Door Thickness	Grip Adjustment Value
1	2 - 12 (.075 - .475)	19 (.75)
2	12 - 22.5 (.475 - .885)	9 (.35)
3	18.5 - 29 (.73 - 1.14)	2.5 (.10)

G Grip Range		
Short cam		
5	21 - 28 (.83 - 1.10)	Deep offset forward
4	27 - 40 (1.06 - 1.57)	Offset forward
3	39 - 52 (1.54 - 2.05)	Straight
4	51 - 64 (2.01 - 2.52)	Offset reversed
5	63 - 76 (2.48 - 3.00)	Deep offset reversed
Long cam		
8	21 - 28 (.83 - 1.10)	Deep offset forward
7	27 - 40 (1.06 - 1.57)	Offset forward
6	39 - 52 (1.54 - 2.05)	Straight
7	51 - 64 (2.01 - 2.52)	Offset reversed
8	63 - 76 (2.48 - 3.00)	Deep offset reversed

Note

All grips of 35 (1.38) or below, highlighted in , in the table above, are potentially a function of door thickness and may not always be achievable, depending on actual door thickness used. In this range of grips, the minimum achievable grip will be limited to actual door thickness + grip adjustment value, or the minimum values shown in the table, whichever is greater.

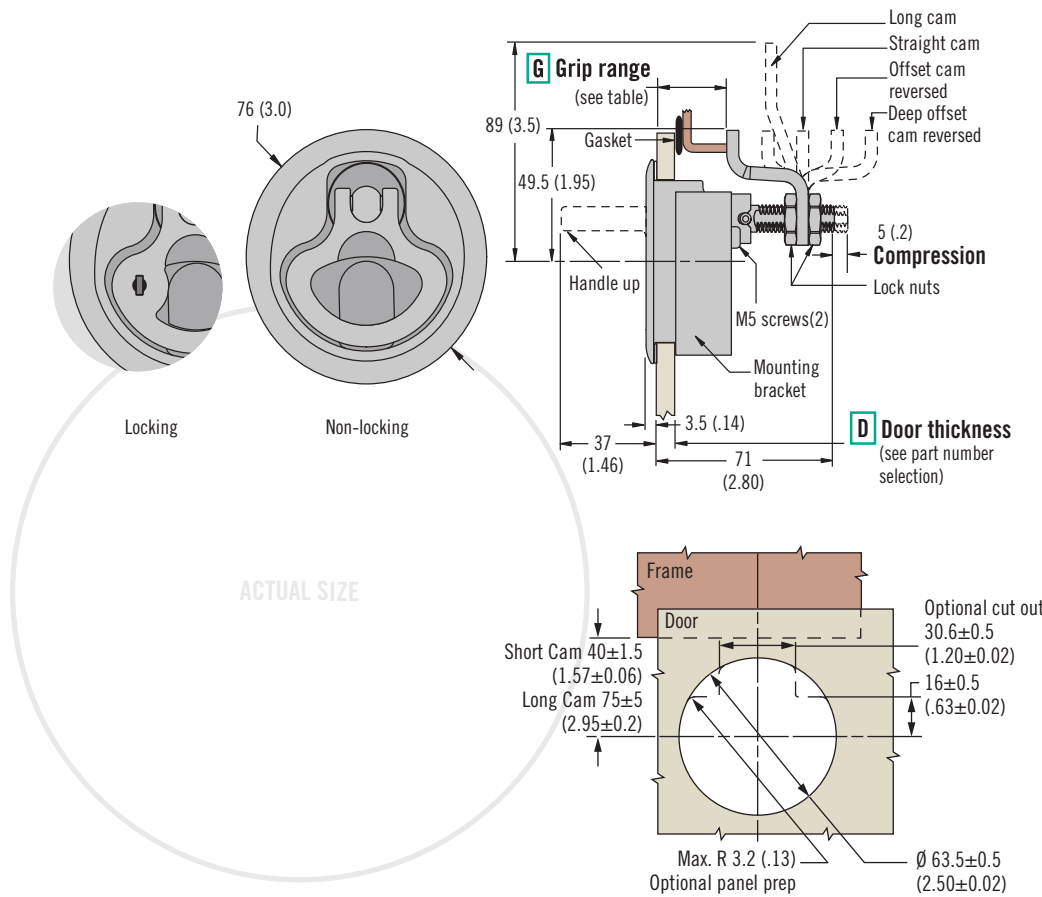
Examples:

For a door thickness of 4mm, the minimum achievable grip is 23 and is achieved with a deep offset cam in the forward position. (4 + 19 = 23)

For a door thickness of 20mm, the minimum achievable grip is 29 and is achieved with an offset cam in the forward position. (20 + 9 = 29)

M1 25 Series Compression Latch

Cast 316 stainless steel · Lift & turn · Adjustable grip
64mm (2.5") size



- Consistent pre-set compression
- Easy grip adjustment

Material and Finish

Stainless steel cast 316 grade

Performance Details

Short cam

Maximum static load:
1010 N (227 lbf)

Long cam

Maximum static load: 350 N (78 lbf)

Sealing Notes

NEMA 4 / IP66 sealing is achieved by using supplied flange gasket

Keys

Lock style 8

Part number: M1-546

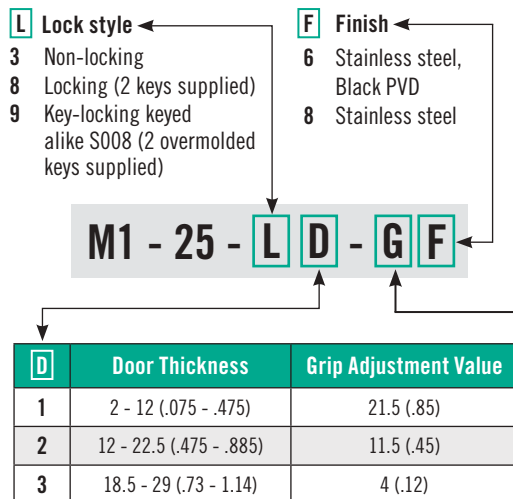
Lock style 9

Part number: M1-525-39-S008

Part Number Selection

See table

See page 258 for complimentary styled push to close version



G Grip Range		
Short cam		
5	23.5 - 35 (.92 - 1.38)	Deep offset forward
4	34 - 48 (1.34 - 1.89)	Offset forward
3	47 - 61 (1.85 - 2.40)	Straight
4	60 - 75 (2.36 - 2.95)	Offset reversed
5	74 - 88 (2.91 - 3.47)	Deep offset reversed
Long cam		
8	23.5 - 35 (.92 - 1.38)	Deep offset forward
7	34 - 48 (1.34 - 1.89)	Offset forward
6	47 - 61 (1.85 - 2.40)	Straight
7	60 - 75 (2.36 - 2.95)	Offset reversed
8	74 - 88 (2.91 - 3.47)	Deep offset reversed

Note

All grips of 33.5 (1.32) or below, highlighted in , in the table above, are potentially a function of door thickness and may not always be achievable, depending on actual door thickness used. In this range of grips, the minimum achievable grip will be limited to actual door thickness + grip adjustment value, or the minimum values shown in the table, whichever is greater.

Examples:

For a door thickness of 4mm, the minimum achievable grip is 25.5 and is achieved with a deep offset cam in the forward position. (4 + 21.5 = 25.5)

For a door thickness of 20mm, the minimum achievable grip is 31.5 and is achieved with a deep offset cam in the forward position. (20 + 11.5 = 31.5)



C5 Compression Latch

Sealed lever latch

90mm size

- Low profile when latched
- Easy grip adjustment
- Push button actuation

Material and Finish

Zinc alloy, black powder coated

Performance Details

Maximum static load:
445 N (100 lbf)

Sealing Notes

NEMA 4 / IP65 sealing is achieved by using optional flange gasket and sealing the mounting screw threads

Accessories

Dust cover:

Part number: C5-0-34682
(add 2.2 (.086) to door thickness)

Flange Gasket:

Part number: C5-82
(add 0.8 (0.03) to door thickness)



Rubber Bumper:

Part Number: C5-25-301-82



Keys

See page 121

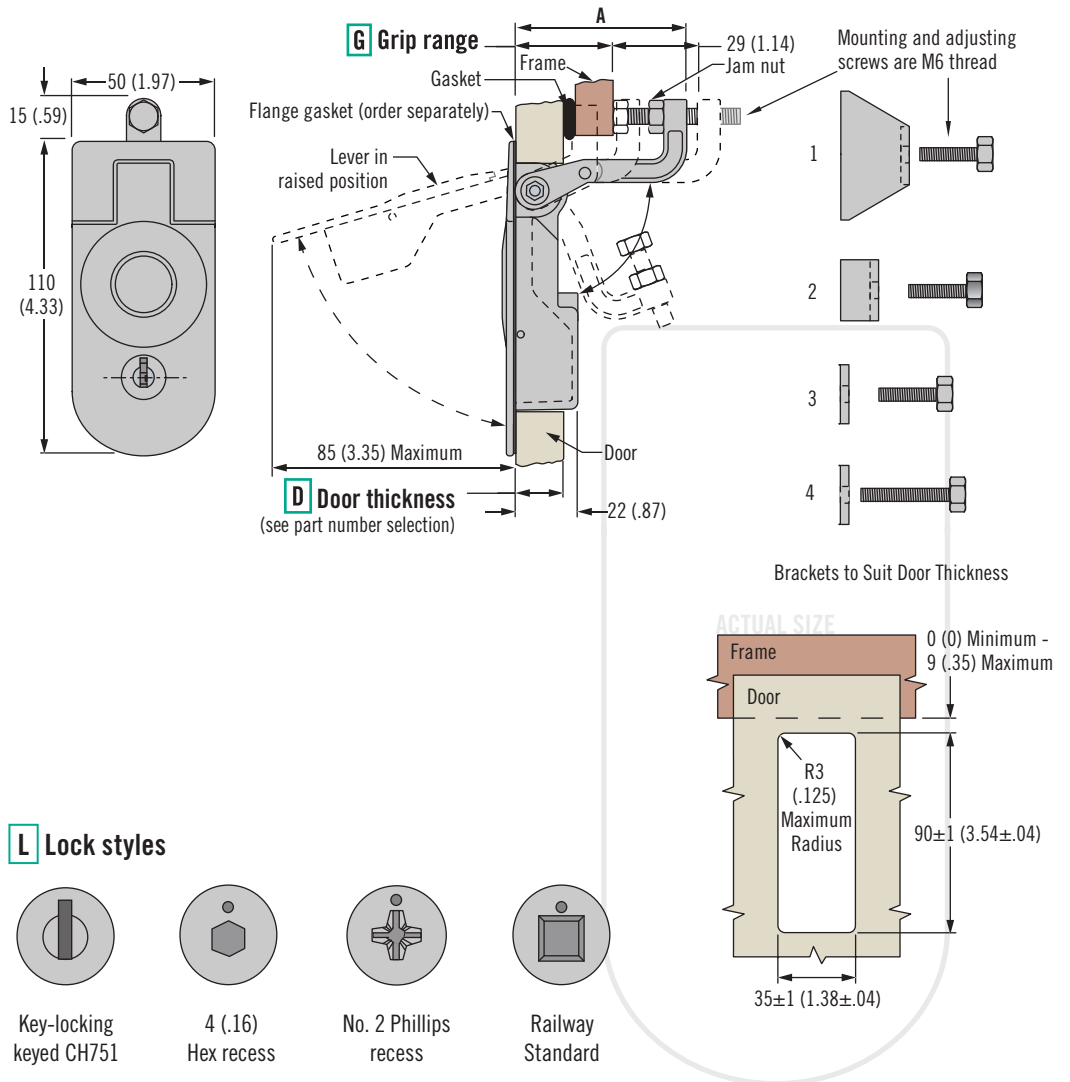
Part Number Selection

See table

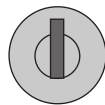
Notes

For lock core selection and a complete overview of the *SOUTHCO*®

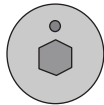
Key-Choice System see page 190



L Lock styles



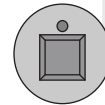
Key-locking
keyed CH751



4 (.16)
Hex recess



No. 2 Phillips
recess



Railway
Standard

L Lock style

- 1 Non-locking
- 2 Locking without dust shutter, keyed alike CH751 (two flat keys supplied)
- 3 Locking with dust shutter, keyed alike CH751 (two flat keys supplied)
- 4 4 (.16) Hex recess
- 5 No. 2 Phillips recess
- 6 Railway standard
- 9 Locking without lock core (order separately see page 190)

D Door thickness

- 1 1 - 11 (.04 - .43)
- 2 11 - 21 (.43 - .83)
- 3 21 - 31 (.83 - 1.22)
- 4 31 - 41 (1.22 - 1.61)

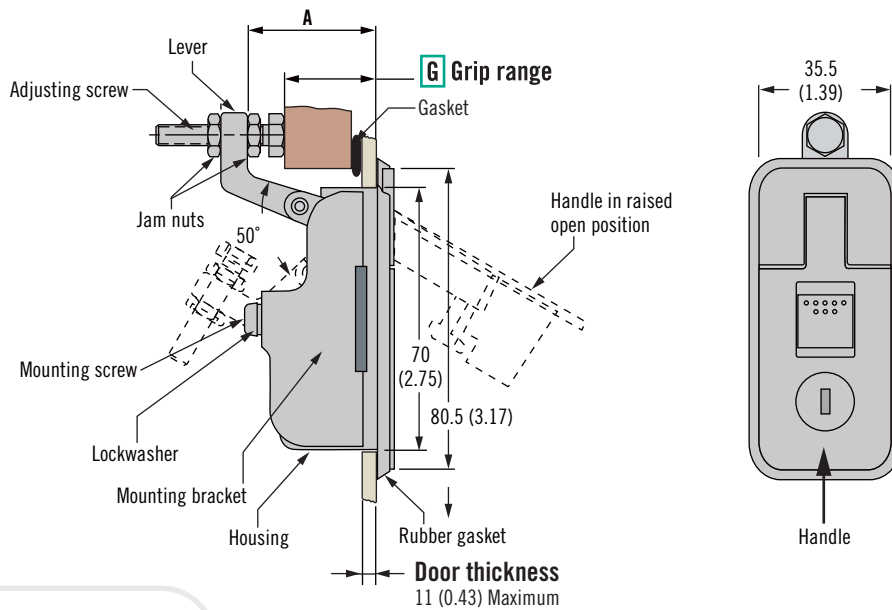
- ### P Packaging option
- 3 Layer packed (omit for individually packaged latches)

C5 - L D - G 5 - P

G Grip Range		A
1	1 - 14 (.04 - .55)	29 (1.14) Door thickness option 1 and 2 only
2	14 - 29 (.55 - 1.14)	44 (1.73) Door thickness option 1, 2 and 3 only
3	29 - 45 (1.14 - 1.77)	60 (2.36)
4	45 - 57 (1.77 - 2.25)	72 (2.84)

C5 Compression Latch

Sealed lever latch
71mm size



- Low profile when latched
- Easy grip adjustment
- Push button actuation

Material and Finish

Zinc alloy, powder coated and steel, zinc plated

Performance Details

Maximum static load:

Grip 1 - 25 (.04 - .98):

290 N (65 lbf)

Grip 15 - 30 (.59 - 1.18):

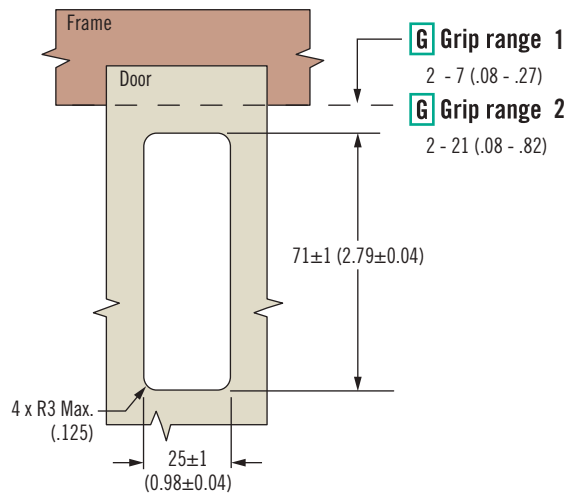
170 N (40 lbf)

Sealing Notes

Environmental sealing is achieved by sealing the mounting screw threads

Keys

See page 121



Part Number Selection

See table

C5 - M - L 1 - G F

- F** Finish
- 5 Black powder coated
 - 12 Chrome plated

- L** Lock style
- 1 Non-locking
 - 3 Key-locking with dust shutter, keyed alike CH751 (two flat keys supplied)

	G Grip Range	A
1	1 - 25 (.04 - .98)	36.5 (1.44)
2	15 - 30 (.59 - 1.18)	40.0 (1.57)



C2 Compression Latch

Lever latch

- Low profile when latched
- Easy grip adjustment
- Push button actuation
- Optional Sealing

Material and Finish

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

Performance Details

Maximum static load: 200 N (45 lbf)

Sealing Notes

For sealed option, NEMA 4 / IP65 sealing is achieved by using the supplied flange gasket.

Installation Notes

* For door thickness greater than 5 (.20) calculate screw length using the following formula:
Door thickness + 12 (.47)

Door thickness + 12 (.47)

Accessories

Rubber Bumper:

Part Number: C2-25-301-82
(reduces min. and max. grip by 1.6 (0.06))



Keys

See page 121

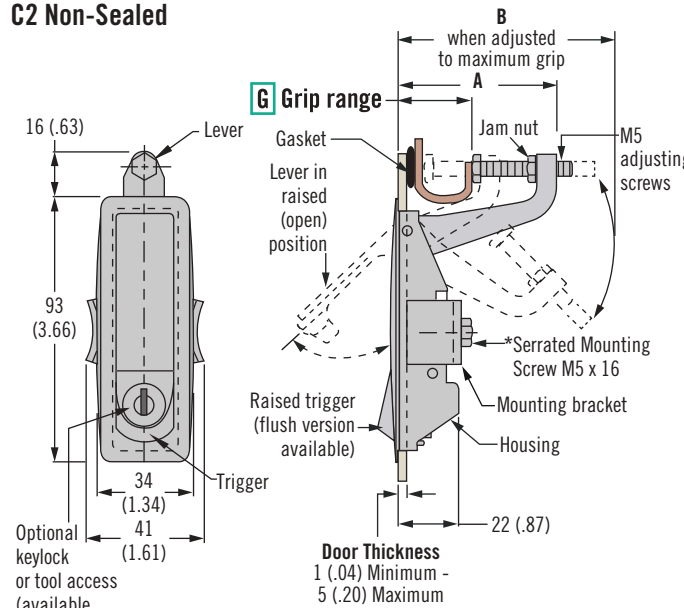
Part Number Selection

See table

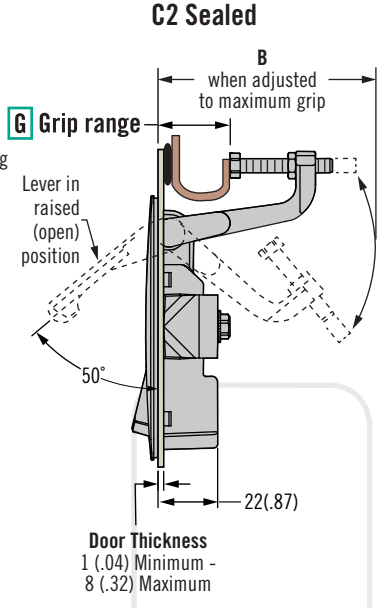
Notes

For lock core selection and a complete overview of the *SOUTHCO*® Key-Choice System see page 190

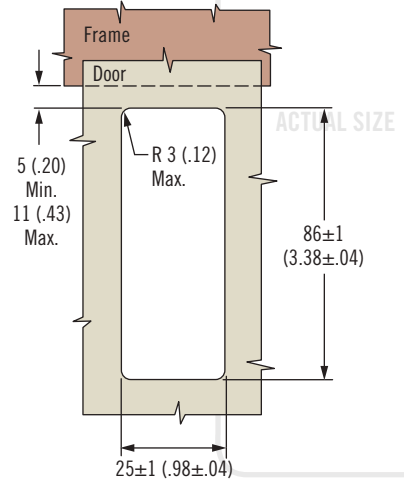
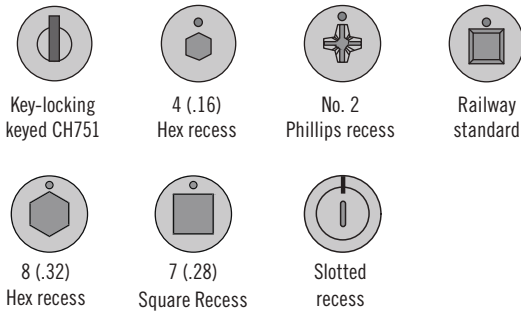
C2 Non-Sealed



C2 Sealed



L Lock Styles



L Lock style

- 1 Non-locking raised trigger
- 2 Key-locking raised trigger keyed CH751 (two flat keys supplied)
- 3 Non-locking flush trigger
- 4 4 (.16) Hex recess raised trigger
- 10 No. 2 Phillips recess raised trigger
- 11 7 (.28) Square recess raised trigger
- 13 Locking without lock core raised trigger (see page 190 for lock core options)
- 14 Railway standard raised trigger
- 15 8 (.32) Hex recess raised trigger
- 16 Slotted recess raised trigger

S Sealing Option

- 3 Non-sealed
- 4 Sealed

F Finish

- 1 Textured chrome
- 5 Black powder coated

P Packaging option

- 3 Layer packed (omit for individually packaged latches)

C2 - S G - L F - P

G Grip Range	A	B
2	1 - 24 (.04 - .95)	35 (1.38) 63 (2.48)
3	23 - 46 (.91 - 1.81)	57 (2.24) 84 (3.31)

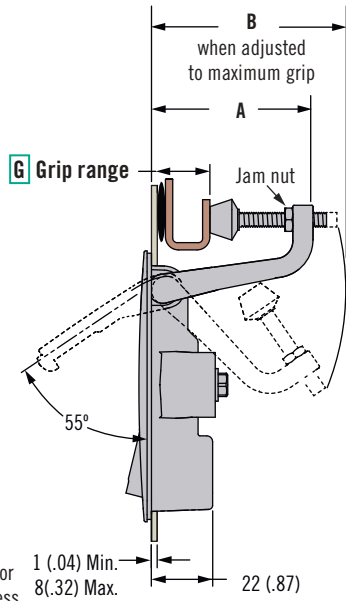
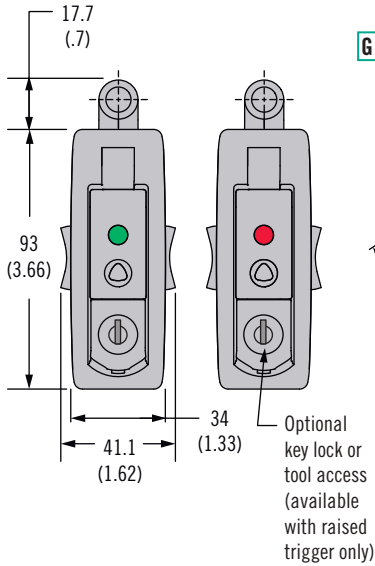
C2 Compression Latch

Lever latch · Access indicator of latch access

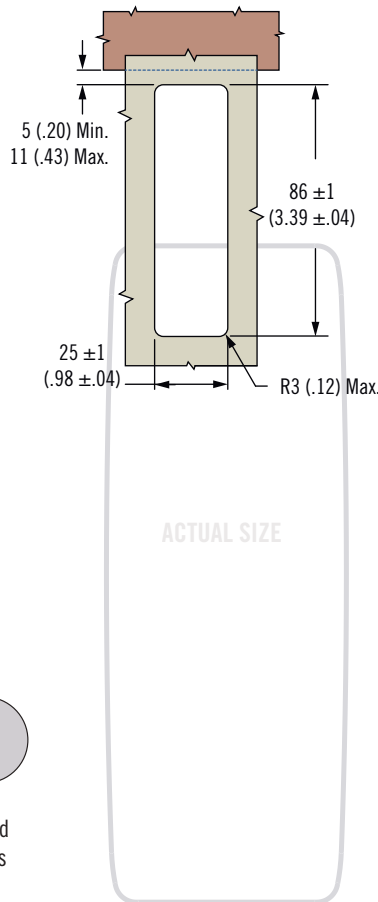


Visual Indicator

Green – Unaccessed
Red – Accessed (Operated)



Panel Preparation



L Lock Styles



Key-locking keyed CH751 4 (.16) Hex recess No. 2 Phillips recess Railway standard Slotted recess

- Feature indicates that latch has been accessed
- Easy grip adjustment
- Push button actuation
- Integrated bumper screw

Material and Finish

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

Performance Details

Maximum static load: 200 N (45 lbf)

Sealing Notes

NEMA 4 and IP65 enabled using supplied gasket.

Installation Notes

* For door thickness greater than 5 (.20) calculate screw length using the following formula:
 Door thickness + 12 (.47)

Keys

See page 121

Indicator Reset Key

Part number: C2-26-301-05
 Required to reset red indicator back to green



Part Number Selection

See table

Notes

For lock core selection and a complete overview of the *SOUTHCO*® Key-Choice System see page 190

Make Safety Visible™
 by Southco

L Lock style

- 1 Non-locking raised trigger
- 2 Key-locking raised trigger keyed CH751 (two flat keys supplied)
- 3 Non-locking flush trigger
- 4 4 (.16) Hex recess raised trigger
- 10 No. 2 Phillips recess raised trigger
- 13 Locking without lock core raised trigger (see page 190 for lock core options)
- 14 Railway standard raised trigger
- 16 Slotted recess raised trigger

F Finish

- 1 Textured chrome
- 5 Black powder coated

P Packaging option

- 3 Layer packed (omit for individually packaged latches)

C2 - A4 G - L F - P

G Grip Range	A	B
2	1 - 18 (.04 - .71)	35 (1.38) 65 (2.56)
3	17 - 39 (.67 - 1.53)	57 (2.24) 85 (3.35)



C2 Compression Latch

Lever latch · Push to lock

- Low profile when latched
- Easy grip adjustment
- Push button actuation
- Integrated bumper

Material and Finish

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

Performance Details

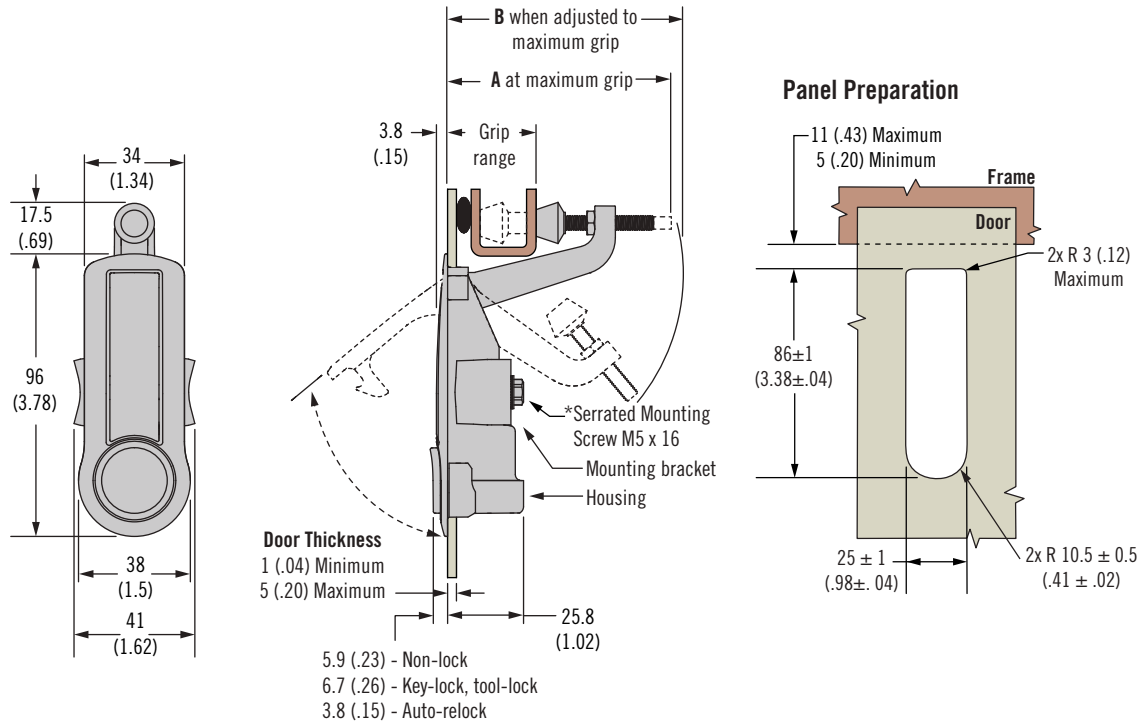
Maximum static load: 200 N (45 lbf)

Installation Notes

* Serrated Mounting Screw M5 x 16. For door thickness greater than 5 (.20) calculate screw length using the following formula:
Door thickness + 12 (.47)

Keys

See page 121



L Lock Styles



Part Number Selection

See table

Notes

For lock core selection and a complete overview of the *SOUTHCO*® Key-Choice System see page 190

L Lock style

- 1 Non-locking raised trigger
- 2 Key-locking raised trigger keyed CH751 (two flat keys supplied)
- 4 4 (.16) Hex recess raised trigger
- 10 No. 2 Phillips recess raised trigger
- 13 Locking without lock core raised trigger (see page 190 for lock core options)
- 14 Railway standard raised trigger
- 15 8 (.32) Hex recess raised trigger
- 16 Slotted recess raised trigger
- 22 Key-locking raised trigger keyed CH751 (two flat keys supplied); (key retained in unlocked position)
- 34 Auto relock: 4 (.16) Hex recess flush trigger
- 310 Auto relock: No. 2 Phillips recess flush trigger
- 314 Auto relock: Railway standard flush trigger
- 315 Auto relock: 8 (.32) Hex recess flush trigger
- 316 Auto relock: Slotted recess flush trigger

F Finish

- 1 Bright chrome
- 5 Black powder coated

P Packaging option

- 3 Layer packed (omit for individually packaged latches)

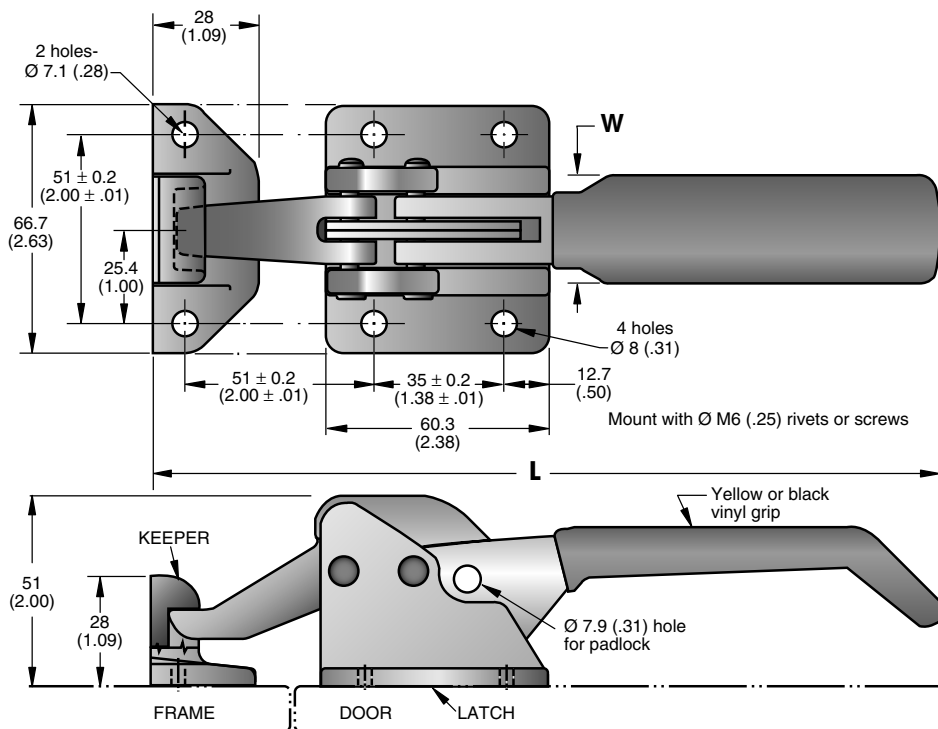
C2 - 5 G - L F - P

G Grip Range	A	B
2	1-18 (.04-.71)	58 (2.28) 63 (2.48)
3	18-40 (.71-1.57)	80 (3.15) 84 (3.31)

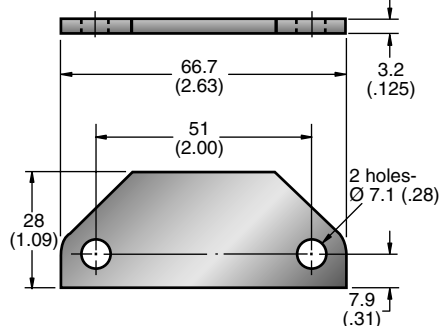
Southco® Compression Latches

Over-center Lever Latch

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



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



One supplied with each assembly.
For extra shims order part no.
A2-54-501-11.



Raise the handle; built in leverage applies a prying force against any rust, ice or paint that tries to resist opening.



Close the door, push the handle down; the same linkage forces a secure closure regardless of dirt or corrosion.

Material and Finish

BASE, LEVER, PAWL and KEEPER: Malleable iron.

LINKS: 1065 Steel.

MAIN CROSSPINS: 10B21 Steel.

Components listed above are zinc immersion coated plus bright metallic organic coating.

LINK PINS: 1215 Steel, zinc plated plus bright chromate dip.

SHIM: 1010 Steel, zinc immersion coating plus bright metallic organic coating.

SPRING: 302 Stainless steel, passivated.

OTHER PINS: 302 Stainless steel, passivated.

Product Strength Guidelines

(To assist in your product selection; samples are available for your evaluation.)

Maximum static load: 2220 N (500 lbs.)

Average ultimate load: 4450 N (1000 lbs.)

Latch is packaged one unit per box.

millimeter (inch)
millimeter (inch)

Dimensions without tolerances are for reference only.

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



27 · 48 Compression Latches

Self-adjusting · Single hole mount

- Two sizes available
- Easy grip adjustment
- Multiple head styles

Material and Finish

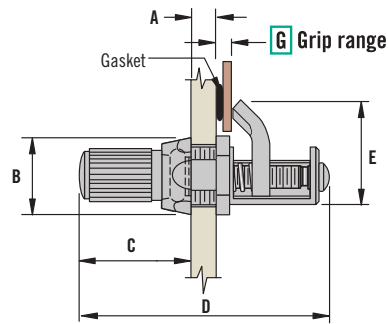
Steel, zinc plated or stainless steel

Performance Details

Maximum static load:

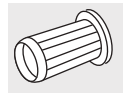
25 (Miniature series): 155 N (35 lbf)

48 (Small series): 220N (50 lbf)

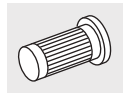


Size	A	B	C	D	E
27 Series Miniature	4.8 (.19) Maximum	10.3 (.41) Maximum	17.5 (.69) Maximum	31.8 (1.25)	13.9 (.55)
48 Series Small	4.8 (.19) Maximum	21 (.81) Maximum	19 (.75) Maximum	44 (1.73)	25.3 (.99)

Nylon knob



Knurled



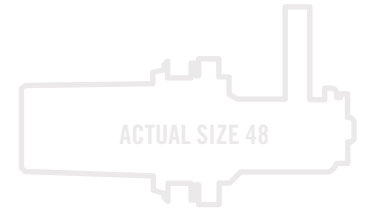
Slotted



Hex recess



Phillips recess



27 Series · Miniature

Material	Grip Range		Knurled	Slotted	Hex Recess	Nylon Knob
	Minimum	Maximum				
Steel	0.8 (.03)	7.1 (.28)	27-99-123-10 *	27-10-501-10 *	27-10-701-10 *	27-10-311-10 *
Stainless steel	0.8 (.03)	7.1 (.28)	27-99-123-20 *	27-10-501-20 *	27-10-701-20 *	27-10-311-20 *

* all part numbers shown are for clockwise rotation. For specification and ordering details visit: www.southco.com

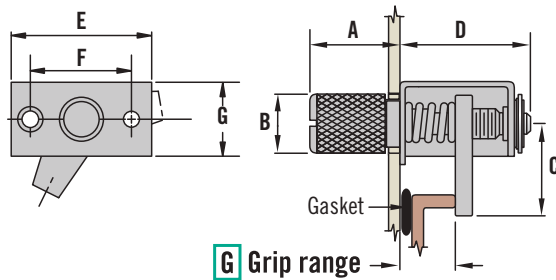
48 Series · Small

Material	Grip Range		Nylon Knob	Slotted	Hex Recess	Phillips Recess
	Minimum	Maximum				
Steel	2.4 (.09)	9.5 (.38)	48-10-401-10	48-11-R	48-81-R	48-91-R
Steel	8.7 (.34)	15.9 (.63)	48-10-402-10	48-12-R	48-82-R	48-92-R
Steel	15.1 (.59)	22.2 (.88)	48-10-403-10	48-13-R	48-83-R	48-93-R

For specification and ordering details visit: www.southco.com

43 · 44 · 14 Compression Latches

Self-adjusting · Three hole mount



G Grip range

- Three sizes available
- Three hole installation
- Easy grip adjustment

Material and Finish

Steel, zinc plated or stainless steel

Performance Details

Maximum static load:

43 (Small): 330 N (75 lbf)

44 (Medium): 490 N (110 lbf)

14 (Large): 670 N (150 lbf)

Size	A	B	C	D	E	F	G
43 Small	15.1 (.59)	8.9 (.35)	15.9 (.63)	22.2 (.88)	28.6 (1.13)	20.6 (.81)	13.9 (.55)
44 Medium	23.8 (.94)	14.6 (.57)	25.4 (1.0)	32.1 (1.27)	44.5 (1.75)	31.8 (1.25)	22.2 (.88)
14 Large	28.6 (1.13)	22.7 (.90)	34 (1.34)	44.5 (1.75)	63.5 (2.5)	47.6 (1.87)	33.3 (1.31)

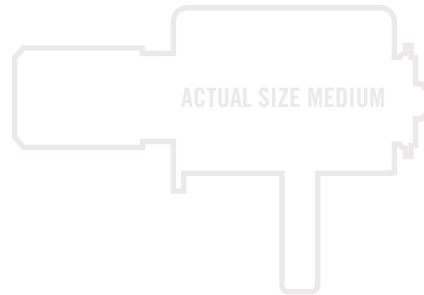
43 · Small size series

Material	G Grip Range		Knurled Head	Slotted Head
	Minimum	Maximum		
Steel	3.2 (.12)	7.1 (.28)	43-1-4-0	43-1-13-0
	6.4 (.25)	13.5 (.53)	43-1-5-0	43-1-14-0
	12.7 (.50)	19.8 (.78)	43-1-6-0	43-1-15-0



44 · Medium size series

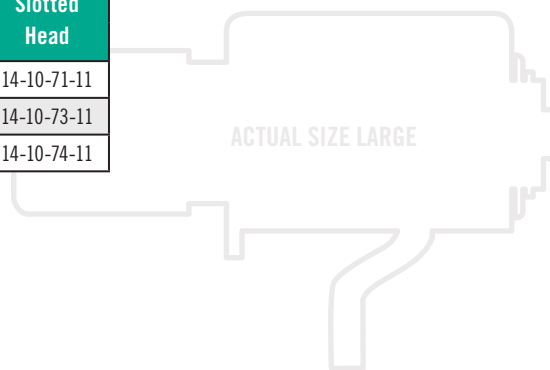
Material	G Grip Range		Knurled Head	Slotted Head
	Minimum	Maximum		
Steel	3.2 (.12)	9.5 (.37)	44-1-1-0	44-1-16-0
	9.5 (.37)	19.1 (.75)	44-1-2-0	44-1-17-0
	19.1 (.75)	28.6 (1.12)	44-1-3-0	44-1-18-0
Stainless steel	3.2 (.12)	9.5 (.37)	44-1-1-24	44-1-16-24
	9.5 (.37)	19.1 (.75)	44-1-2-24	44-1-17-24
	19.1 (.75)	28.6 (1.12)	44-1-3-24	44-1-18-24



Also available: Tool recess, Slotted, Hex recess

14 · Large size series

Material	G Grip Range		Knurled Head	Slotted Head
	Minimum	Maximum		
Steel	3.2 (.13)	19 (.75)	14-10-11-11	14-10-71-11
	9.5 (.38)	31.8 (1.25)	14-10-13-11	14-10-73-11
	22.2 (.88)	42.9 (1.69)	14-10-14-11	14-10-74-11





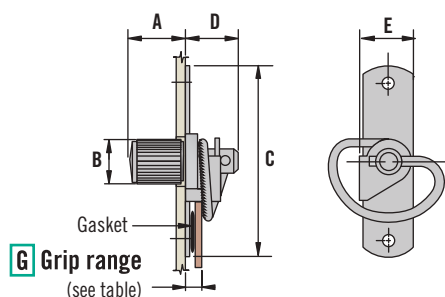
57 Compression Latch

Self-adjusting · Spring latch series

- Four sizes available
- Three hole installation
- Accommodates grip variances

Material and Finish

Steel, zinc plated or stainless steel



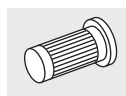
G Grip range
(see table)

Size	A	B	C	D	E
Miniature	11.9 (.47)	13.5 (.53)	27 (1.06)	7.5 (.03)	8.5 (.33)
Small	15.1 (.59)	14.7 (.58)	39.7 (1.56)	11.1 (.44)	11.6 (.46)
Medium	19.1 (.75)	24.1 (.95)	58.7 (2.31)	17.5 (.69)	17.5 (.69)
Large	26.2 (1.03)	28.2 (1.11)	88.9 (3.5)	25 (.98)	26.2 (1.03)

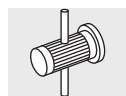
Nylon knob



Knurled



T-bar



Slot



Hex recess



Tool recess



57 Series

Size	Material	G Grip Range		Knurled	Slotted	Nylon Knob
		Minimum	Maximum			
Mini	Steel	1.2 (.05)	4.3 (.17)	57-20-201-10	57-20-101-10	57-20-401-10
Small	Steel	1.2 (.05)	6.4 (.25)	57-30-201-10	57-30-101-10	57-30-401-10
Medium	Steel	1.6 (.06)	9.5 (.38)	57-10-201-10	57-10-101-10	57-10-401-10
Medium	Stainless steel	1.6 (.06)	9.5 (.38)	57-10-201-40	57-10-101-40	~
Large	Steel	2.4 (.09)	14.3 (.56)	~	57-40-101-10	57-40-401-10