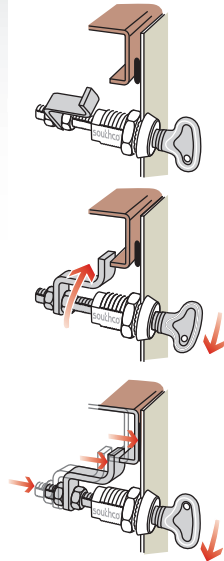


COMPRESSION LATCHES

WISE ACTION® Latches

Pages 76 - 93



Reduce or eliminate noise and rattle, or compress gaskets for environmental or EMI / RFI sealing. A wide variety of compression latch styles include many secure key and tool access options.

An extensive line of premium latches built around the unique *SOUTHCO® VISE ACTION®* mechanism that provides both cam engagement and vibration-dampening compression with a continuous half-turn motion. New access styles, new materials and finish options, and expanded installation styles make this the most versatile compression latch solution.

- Up to 6.4mm (.25 ") compression
- Over-center action resists accidental opening
- Numerous hand, tool and key actuation styles
- Extensive range of body & installation styles
- Sealed versions to meet NEMA / IP standards



E3



E3



E3



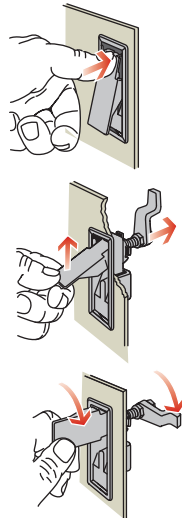
E3



E3

Lift and Turn

Pages 94 - 103



Simply lift handle to release compression, then turn handle 90° to open. Larger profile latches provide ample hand grip to unlatch and manipulate larger doors. Flush mounted and miniature styles for better aesthetics or where space is limited. Available in a wide range of materials and finishes.

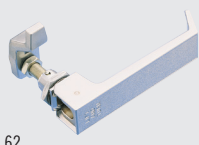
- Convenience of latch and handle in one
- Choices of pre-set pull-up compression
- Includes stylish flush mount options



M1



62



62



62



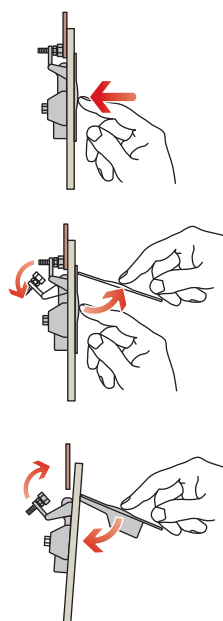
62



N2

This compression latch family includes a wide range of low profile and flush lever latch solutions, some with push-button handle release for stylized enclosures ranging from transit storage compartments to electronics cabinetry. Also includes heavy-duty latches for compressing and prying open gasketed doors in industrial strength applications such as refrigerated storage.

- Latch and handle capability in one assembly
- Over-center models provide secure closure plus opening leverage
- Accommodates a wide range of grip dimensions
- Includes stylish flush mount options
- Sealed versions to meet NEMA / IP standards
- Several tool and key access versions



Lever

Pages 104 - 107



A7



C2



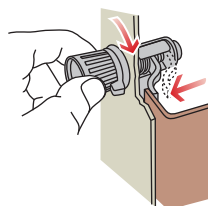
C5



C5

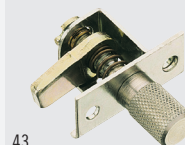
SOUTHCO® self-adjusting latches provide user controlled compression adjustment during each actuation. They are available in a range of styles from miniature versions to larger sizes for heavier duty applications, ranging from construction equipment to industrial enclosures. They also provide some of the quickest, most economical, and easiest to access compression solutions for quietening small access doors in vibration-prone sheet metal applications ranging from HVAC equipment to fan-cooled electronics enclosures.

- User-controlled compression
- Adjusts easily for grip setting or dimensional variations in cabinets
- Numerous actuation styles
- Accommodates a wide range of grip dimensions



Self-Adjusting

Pages 108 - 110



43



57



Compression Latches

Selection guide

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



Key-Locking Available



Key-Choice System



NEMA / IP Rated



Multi-Point Latching



Padlockable

















Stainless Steel



Vibration Resistant



Fire Resistant

	Product class	MATERIAL			INSTALLATION		
		Stainless Steel	Zinc and Steel	Aluminum	Round Hole Install	Flush / Low Profile	Maximum Door Thickness
WISE ACTION® LATCHES PAGES 76-93	 E3 19.1mm	✓	✓	✓	✓ Use spur washer	✓	18 (.71)
	 E3 13.5mm	✓	✓			✓	12.7 (.50)
	 E3 3 Hole		✓		✓	✓	4 (.16)
LIFT AND TURN PAGES 94-103	 N2	✓	✓			✓	12.7 (.50)
	 62 Flush		✓			✓	6 (.24)
	 62 Handle		✓				6 (.24)
	 M1	✓			✓	✓	29 (1.14)
LEVER PAGES 104-107	 C5 90mm		✓			✓	41 (1.61)
	 C5 71mm		✓			✓	11 (.43)
	 C2		✓			✓	8 (.32)
	 A7		✓				Surface mount
SELF-ADJUSTING PAGES 108-110	 27, 48	✓	✓			✓	4.8 (.19)
	 43, 44, 14	✓	✓		✓	✓	Rear mount
	 57	✓	✓		✓	✓	Rear mount

Dimensions in millimeters (inch) unless otherwise stated

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

www.southco.com








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Request Info

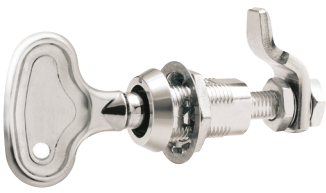


1-800-453-1692

www.aboveboardelectronics.com

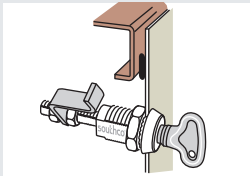
	PERFORMANCE					OPTIONS				
Fire EN 45545 	NEMA / IP Rated 	Vibration Resistant 	Maximum Static Load	Compression	Grip Range	Key-Locking 	Tool Access	Key-Choice System 	Padlockable 	Multi-Point Latching 
✓	✓	✓	300 - 600 N (67 - 135 lbf)	6.4 (.25)	11.4 - 81.2 (.45 - 3.20)	✓	✓		✓	✓
✓	✓	✓	330 - 356 N (75 - 80 lbf)	4 (.17)	3.2 - 28.6 (.13 - 1.13)		✓			
		✓	450 N (100 lbf)	6.4 (.25)	7.9 - 76.2 (.31 - 3.00)	✓	✓			✓
		✓	1000 N (225 lbf)	6 (.24)	3.5 - 104 (.14 - 4.1)	✓				✓
		✓	220 - 1250 N (50 - 280 lbf)	2 - 5.5 (.06 - .22)	4.5 - 111 (.17 - 4.38)	✓	✓	✓		✓
		✓	220 - 670 N (50 - 150 lbf)	3 - 5 (.11 - .19)	0 - 55 (0 - 2.16)					✓
	✓	✓	350 - 1010 N (78 - 227 lbf)	4 - 5 (.16 - .2)	10 - 88 (.39 - 3.47)	✓				✓
	✓	✓	450 N (100 lbf)	User defined	1 - 57 (.04 - 2.25)	✓	✓	✓		
		✓	170 - 290 N (40 - 65 lbf)	User defined	1 - 30 (.04 - 1.18)	✓				
	✓	✓	1100 N (250 lbf)	User defined	1 - 46 (.04 - 1.81)	✓	✓	✓		
		✓	2200 N (500 lbf)	9.5 (.38)	Surface mount flush	✓				
		✓	155 N (35 lbf)	User defined	0.8 - 22.2 (.03 - .88)		✓			
		✓	330 - 670 N (75 - 150 lbf)	User defined	3.2 - 42.9 (.13 - 1.69)		✓			
		✓	13.4 - 137 N (3 - 31 lbf)	User defined	1.2 - 14.3 (.05 - .56)		✓			

Dimensions in millimeters (inch) unless otherwise stated

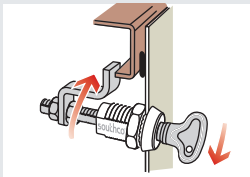


E3 VISE ACTION® Compression Latch

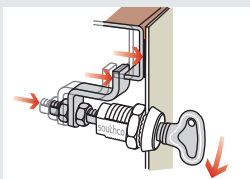
Overview



First 90° turn:
Cam rotates behind frame



The door is now **latched**
against opening



Then as you complete the
half-turn motion, the shaft
and cam compress to pull the
door snugly against the frame
or gasket into the
locked position

Versatility and simplicity in action

Every *SOUTHCO*® *VISE ACTION*® Series latch solution starts with the single-turn latching and compressing action that is built into each model. At the heart of it all is our *VISE ACTION*® design that has proven itself in millions of installations.

Product features

- Suitable for a wide range of load configurations
- Excellent corrosion resistance
- Durable and reliable operation
- Multiple size, material and access configurations
- Compression achieved with minimal manual torque
- Suitable for NEMA 4 / IP65 applications

➤ Match material and finish options for style and functionality requirements

Variety of materials and finishes to complement your application.

Die-cast zinc latch bodies standard finishes:



Stainless steel latch bodies are made by metal injection molding or precise machining.

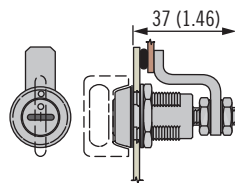
Aluminum latch bodies standard finishes:



➤ Select one of these three housing styles to fit your access requirements

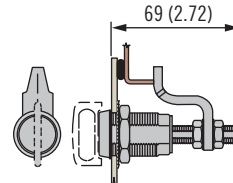
A series of basic housing styles of the *VISE ACTION*® compression latch have been developed to meet specific door configuration and mounting requirements - for depth, thickness, strength, grip dimension, and surface protrusion.

- Right and left hand actuation
- Optional pre-assembled cam for quick installation
- Wide choice of accessories



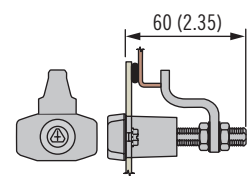
13.5mm Size

- Optimum compression for use in confined space applications



19.1mm Size

- Largest choice of head styles
- Maximum grip range in door to frame spacing
- Minimal protrusion style available



3-Hole Mount

- Simplified round-hole mounting
- Suitable for thick, soft or weak panels

Dimensions in millimeters (inch) unless otherwise stated

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

www.southco.com

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Request Info



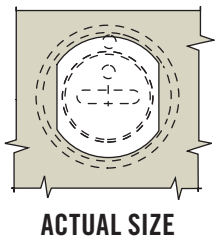
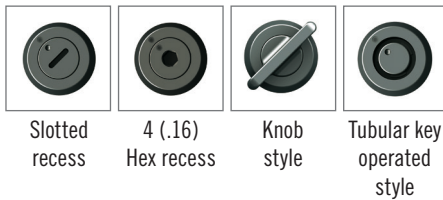
1-800-453-1692

www.aboveboardelectronics.com

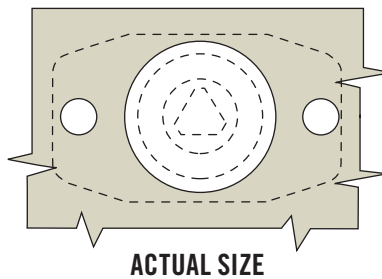
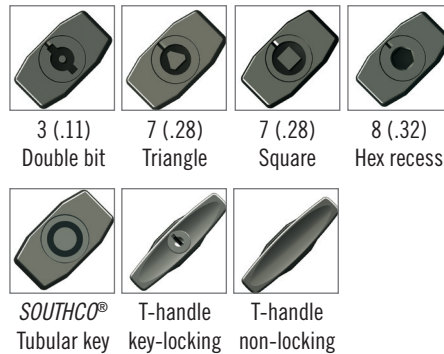
➔ Choose from a wide range of head styles to fit your application and industry requirements

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

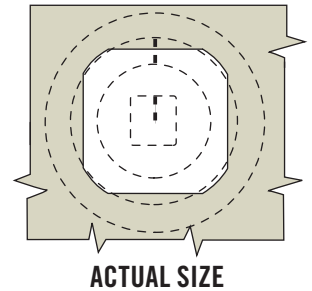
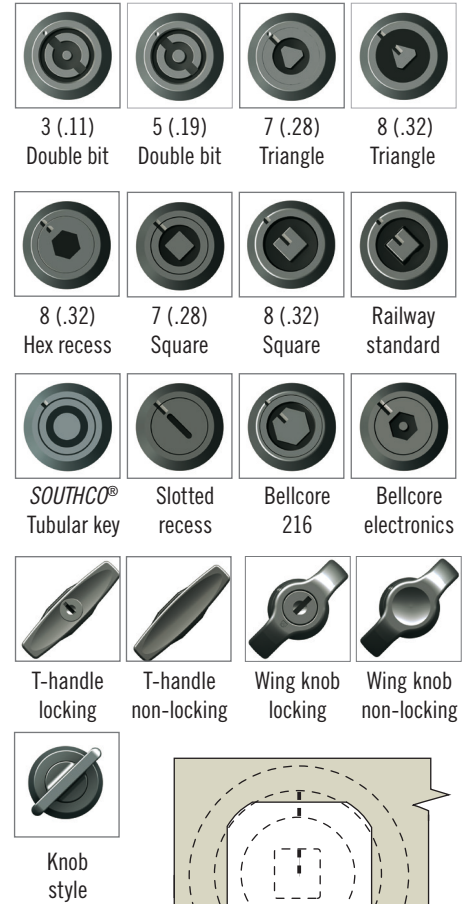
13.5mm single hole door preparation



3-Hole body door preparation



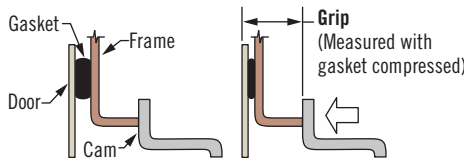
19.1mm single hole body door preparation



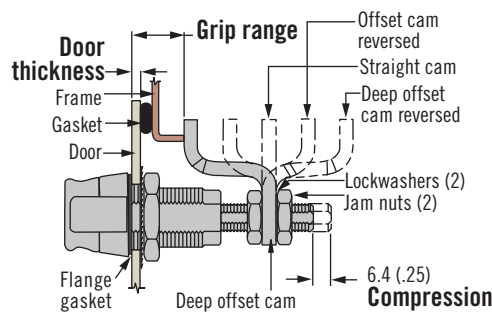
➔ Determine your grip options for a perfect fit

Grip dimension is an important consideration in compression latch applications involving gaskets for environmental or RFI sealing.

For gasketed doors:

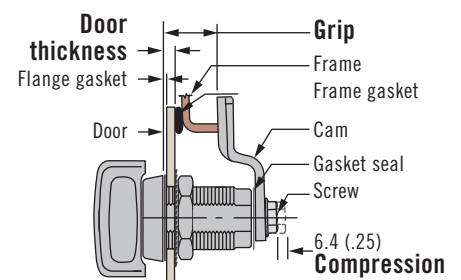


Dimensions in millimeters (inch) unless otherwise stated



Adjustable cam designs

- Maximum flexibility in tolerance or gasket compression
- Cam choice to suit a broad range of grip



Fixed cam designs

- Precise fit and minimum internal protrusion
- Wide cam selection for accurate grip dimension



E3 VISE ACTION® Compression Latch

Machined stainless steel housing · Tool operated
Adjustable grip · 19.1mm size

- Consistent pre-set compression
- Easy grip adjustment
- Premium finish and corrosion resistance
- EN 45545-3 E60 Compliant

Material and Finish

Stainless steel (304 and 316 machined)

Performance Details

Maximum static load:
600 N (136 lbf)

Sealing Notes

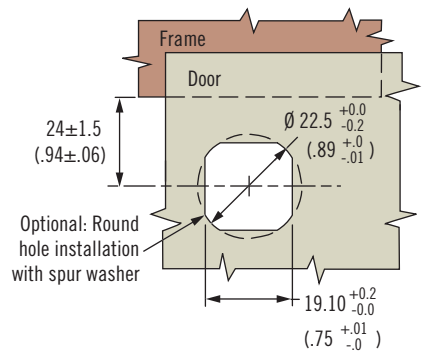
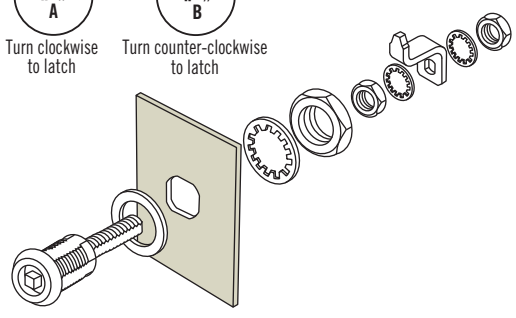
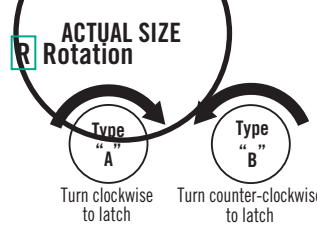
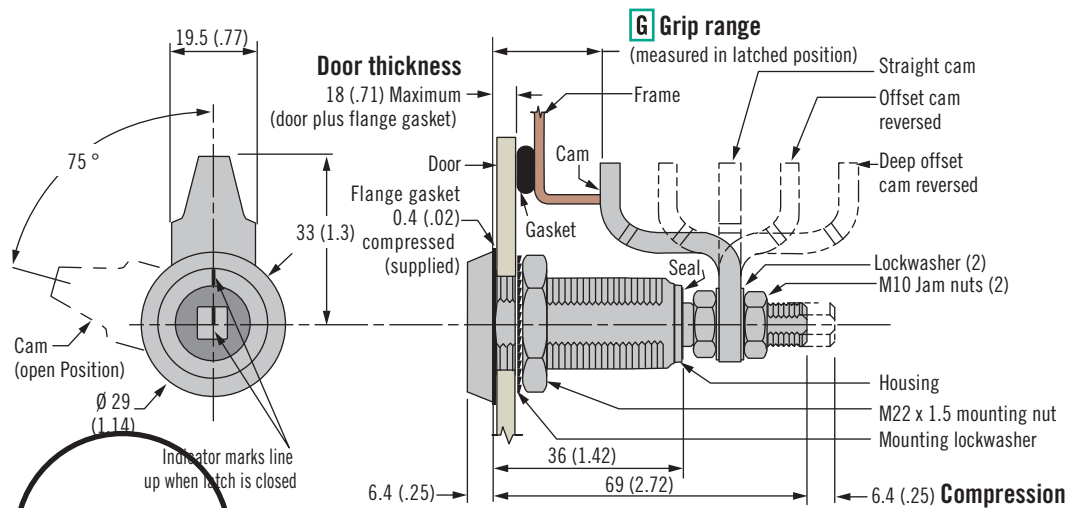
NEMA 4 and IP65 enabled using gasket supplied

Keys and Accessories

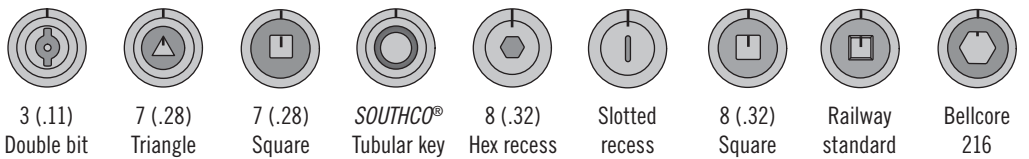
See page 90

Installation Notes

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



Head Styles



Part Number Selection

See table

H	Head Style	R	Rotation	G	Grip	Minimum	Maximum	Cam Type
2	3 (.11) Double bit	9	Slotted recess	1	16.4 (.64)	32.2 (1.26)	Deep offset cam, forward	
3	7 (.28) Triangle	10	8 (.32) Square		71.3 (2.80)	81.2 (3.19)	Deep offset cam, reversed	
4	7 (.28) Square	11	Railway standard		30.4 (1.19)	46.1 (1.81)	Offset cam, forward	
5	SOUTHCO® Tubular key	15	Bellcore 216	2	57.6 (2.26)	73.3 (2.88)	Offset cam, reversed	
6	8 (.32) Hex recess				3	43.9 (1.72)	59.6 (2.34)	Straight cam

E3 - R H - G O

Dimensions in millimeters (inch) unless otherwise stated

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

www.southco.com/E3

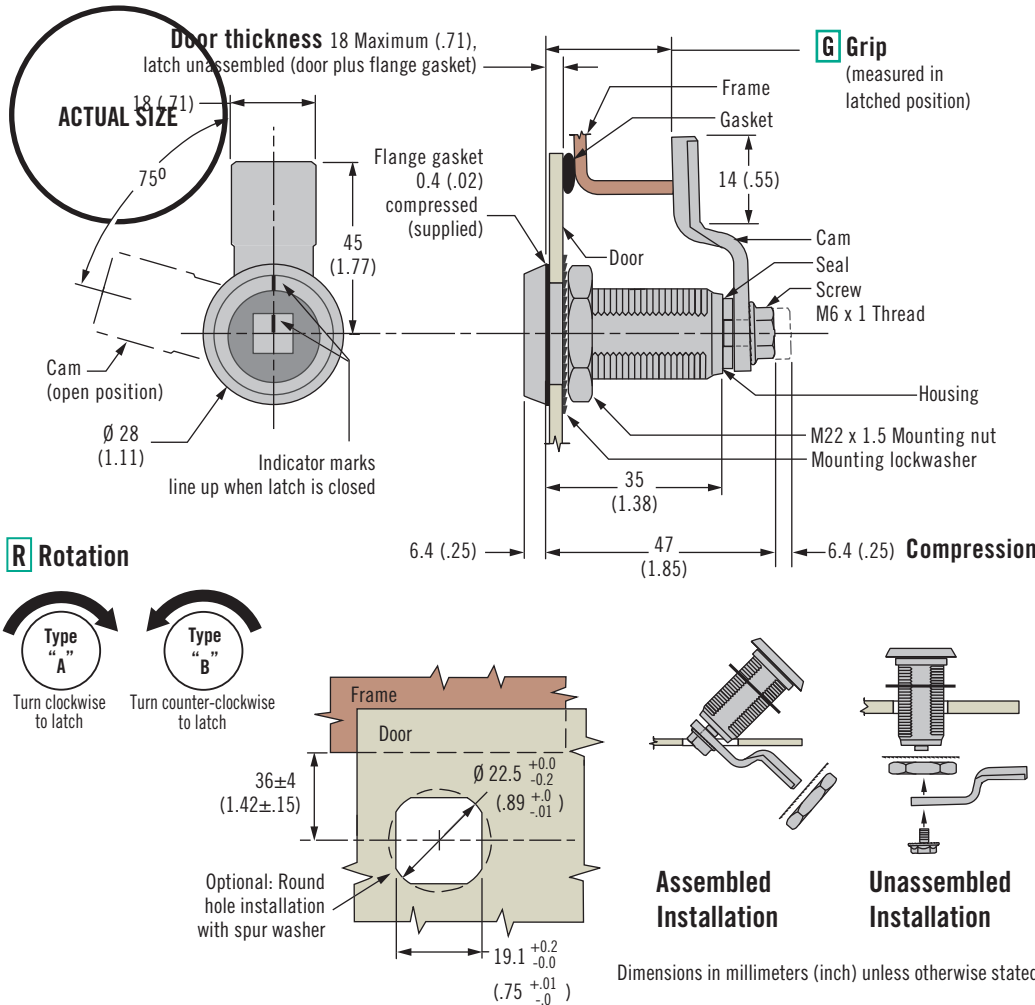


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www.aboveboardelectronics.com

E3 VISE ACTION® Compression Latch

Machined stainless steel housing · Tool operated

Fixed grip · 19.1mm size



- Consistent pre-set compression
- Premium finish and corrosion resistance
- Reduced internal protrusion
- EN 45545-3 E60 Compliant

Material and Finish

Stainless steel (304 and 316 machined)

Performance Details

Maximum static load: 450 N (100 lbf)

Sealing Notes

NEMA 4 and IP65 enabled using gasket supplied

Keys and Accessories

See page 90

Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for the mounting screw is 10 N·m (88 in·lbf)

- H Head style**
- 2 3 (.11) Double bit
 - 3 7 (.28) Triangle
 - 4 7 (.28) Square
 - 5 SOUTHCO® Tubular key
 - 6 8 (.32) Hex recess
 - 9 Slotted recess
 - 10 8 (.32) Square
 - 11 Railway standard
 - 15 Bellcore 216

- R Rotation**
- 10 Type A clockwise to latch - Latch assembled
 - 12 Type A clockwise to latch - Latch unassembled
 - 27 Type B counter-clockwise to latch - Latch assembled
 - 29 Type B counter-clockwise to latch - Latch unassembled

E3 - R H - G O

Part Number Selection

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

G Grip Table

Total Grip	G	Max. Door Thickness for Assembled Latch	Total Grip	G	Max. Door Thickness for Assembled Latch	Total Grip	G	Max. Door Thickness for Assembled Latch	Total Grip	G	Max. Door Thickness for Assembled Latch
20 (.79)	00	1 (.04)	30 (1.18)	05	7 (.28)	40 (1.57)	10	7 (.28)	50 (1.97)	15	7 (.28)
22 (.87)	01	2 (.08)	32.5 (1.28)	06		42 (1.65)	11		52 (2.05)	16	
24 (.94)	02	4 (.16)	34 (1.34)	07		44 (1.73)	12		54 (2.13)	17	
26 (1.02)	03	5 (.20)	36 (1.42)	08		46 (1.81)	13		56 (2.20)	18	
28 (1.10)	04	6 (.24)	38 (1.50)	09	48 (1.89)	14	58 (2.28)	19			





E3 VISE ACTION® Compression Latch

Metal injection molding stainless steel housing · Tool or hand operated
Adjustable grip · 19.1mm size

- Consistent pre-set compression
- Easy grip adjustment
- Tool or hand operated
- EN 45545-3 E60 Compliant

Material and Finish

Stainless steel 316 and 304

Performance Details

Maximum static load:
556 N (125 lbf)

Sealing Notes

NEMA 4 and IP65 enabled using gasket supplied

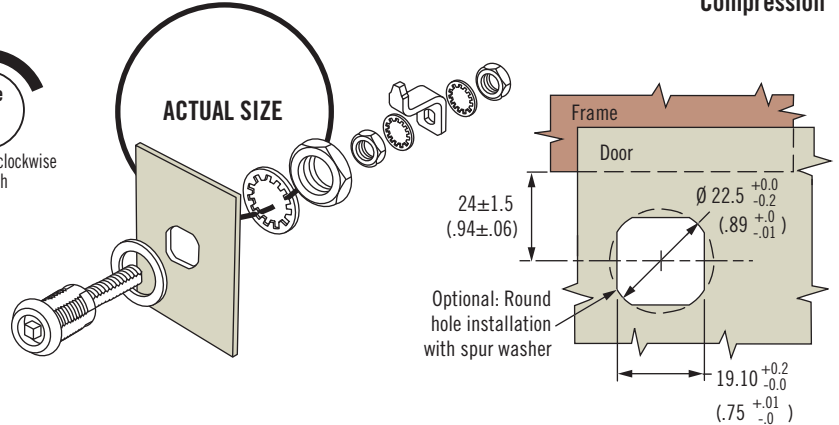
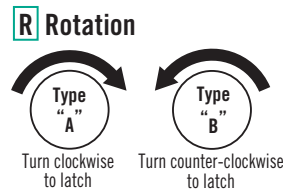
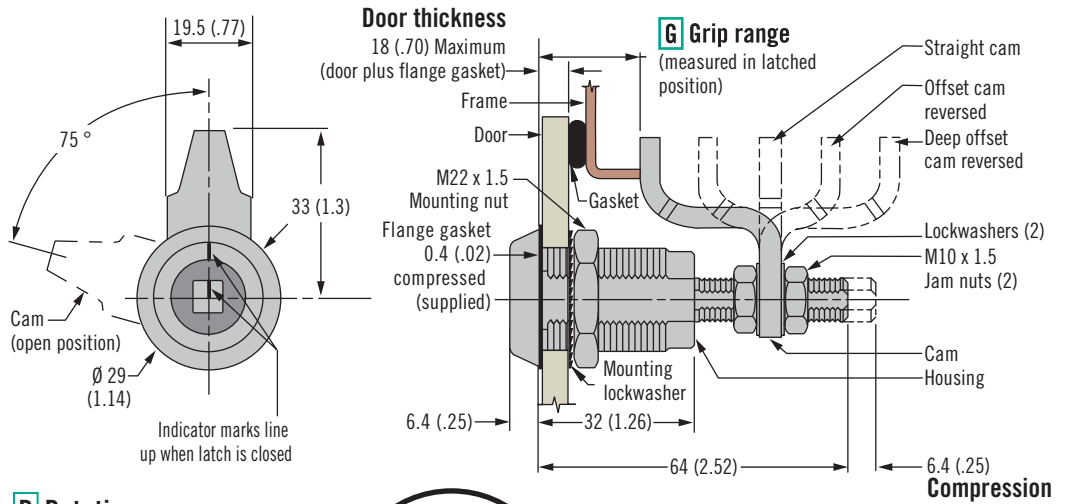
Installation Notes

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

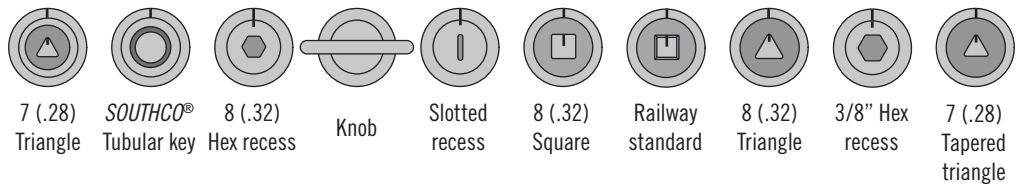
Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf).

Keys and Accessories

See page 90



H Head Styles



Part Number Selection

See table

E3 - R H - G F		Grip	Minimum	Maximum	Cam Type	
R Rotation 1 Type A clockwise to latch 22 Type B counter-clockwise to latch	H Head style 3 7 (.28) Triangle 5 SOUTHCO® Tubular key 6 8 (.32) Hex recess 7 Knob 9 Slotted recess	F Finish 2 Electropolished 12 Electropolished and hand buffed (bright)	1	11.4 (.45)	27.2 (1.07)	Deep offset cam, forward
			1	66.3 (2.61)	76.2 (3.00)	Deep offset cam, reversed
			2	25.4 (1.00)	41.1 (1.62)	Offset cam, forward
			2	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

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

www.southco.com/E3



Request Info

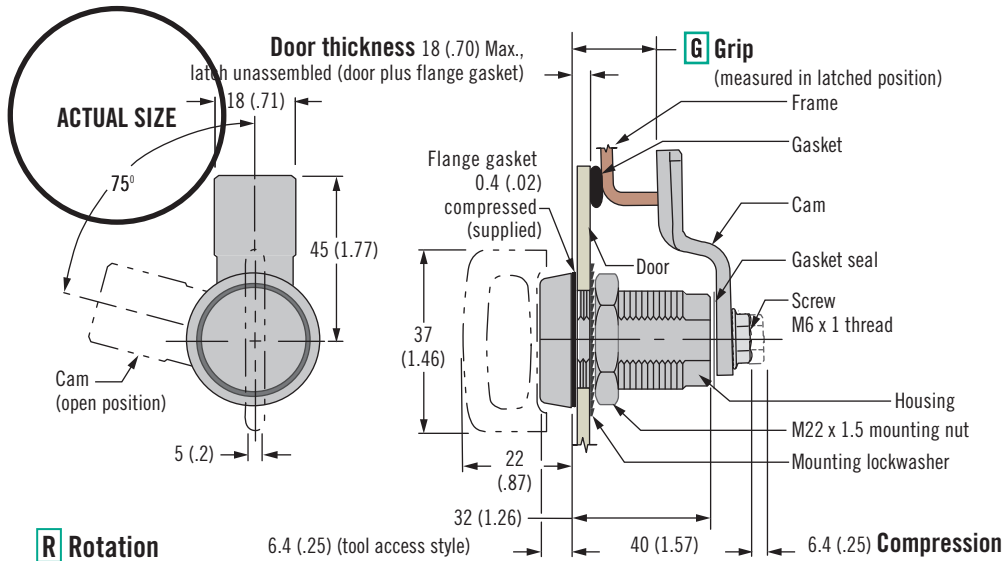


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E3 VISE ACTION® Compression Latch

Metal injection molding stainless steel housing · Tool or hand operated
Fixed grip · 19.1mm size



- Consistent pre-set compression
- Tool or hand operated
- Reduced internal protrusion
- EN 45545-3 E60 Compliant

Material and Finish

Stainless steel 316 and 304

Performance Details

Maximum static load:
450 N (100 lbf)

Sealing Notes

NEMA 4 / IP65 enabled using gasket supplied

Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for the mounting screw in 10 N·m (88 in·lbf)

Keys and Accessories

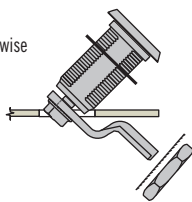
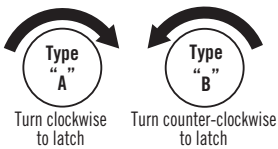
See page 90

Part Number Selection

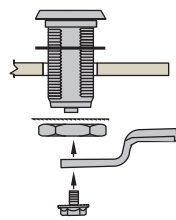
See table

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

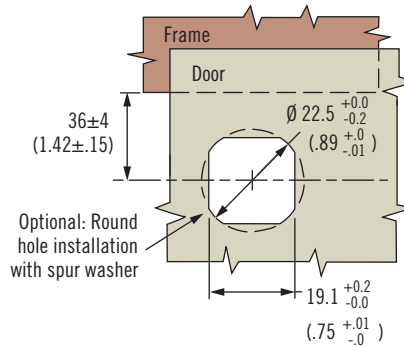
R Rotation



Assembled Installation



Unassembled Installation



Dimensions in millimeters (inch) unless otherwise stated

H Head style

- | | | | |
|----|----------------------|----|--------------------------|
| 3 | 7 (.28) Triangle | 11 | Railway standard |
| 5 | SOUTHCO® Tubular key | 20 | 8 (.32) triangle |
| 6 | 8 (.32) Hex recess | 37 | 3/8" Hex recess |
| 7 | Knob | 39 | 7 (.28) Tapered triangle |
| 9 | Slotted recess | | |
| 10 | 8 (.32) Square | | |

E3 - R H - G F

R Rotation

- | | |
|----|---|
| 10 | Type A clockwise to latch - Latch assembled |
| 12 | Type A clockwise to latch - Latch unassembled |
| 27 | Type B counter-clockwise to latch - Latch assembled |
| 29 | Type B counter-clockwise to latch - Latch unassembled |

- ### F Finish
- | | |
|----|--|
| 2 | Electropolished |
| 12 | Electropolished and hand buffed (bright) |

G Grip Table

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





E3 VISE ACTION® Compression Latch

Metal injection molding stainless steel housing · Tool or hand operated
Adjustable grip · 13.5mm size

- Consistent pre-set compression
- Easy grip adjustment
- Tool or hand operated
- Reduced dimensions
- EN 45545-3 E60 Compliant

Material and Finish

Stainless steel 316 and 304

Performance Details

Maximum static load: 356 N (80 lbf)

Sealing Notes

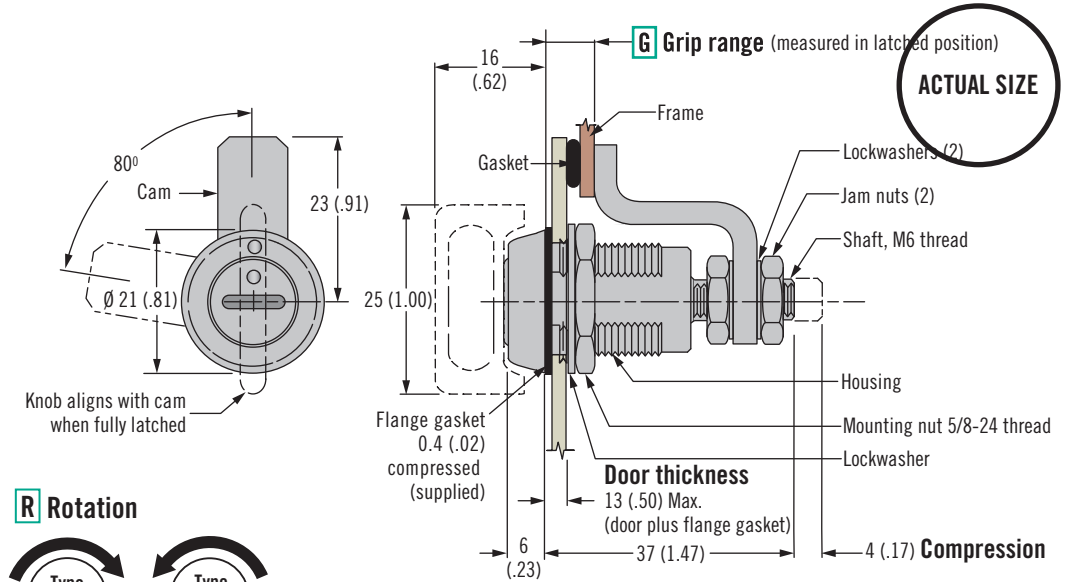
NEMA 4 / IP65 enabled using gasket supplied

Installation Notes

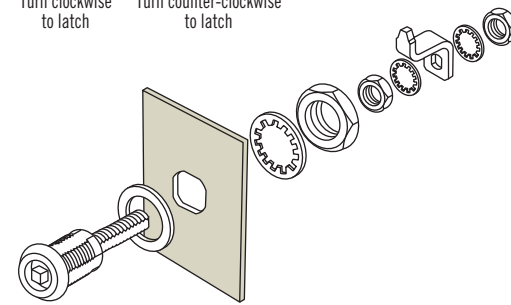
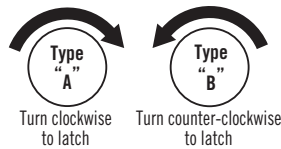
Caution: Position cam so latching function can be achieved comfortably by hand.

Accessories

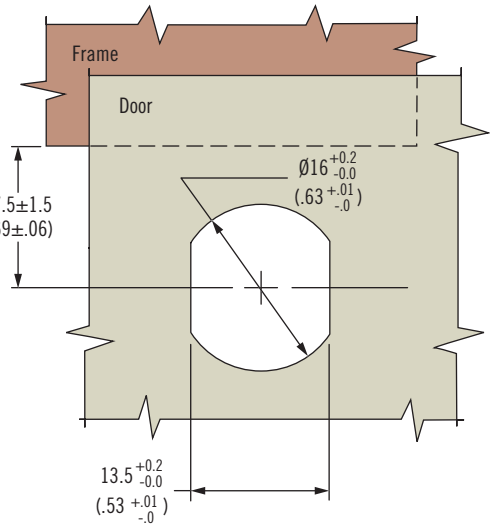
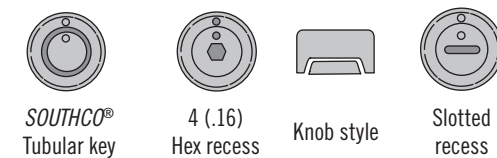
See page 90



R Rotation



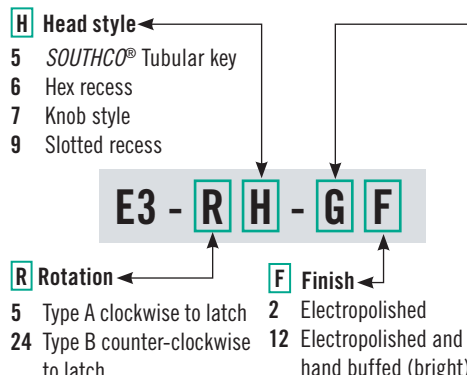
H Head Styles



Dimensions in millimeters (inch) unless otherwise stated

Part Number Selection

See table



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)

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

www.southco.com/E3



Request Info



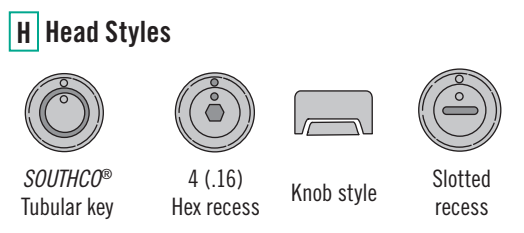
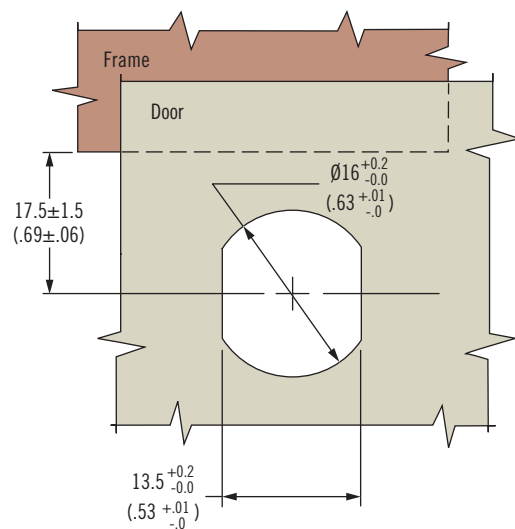
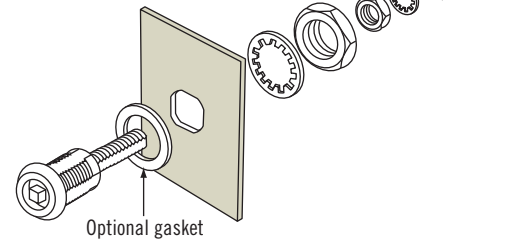
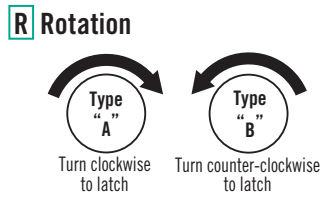
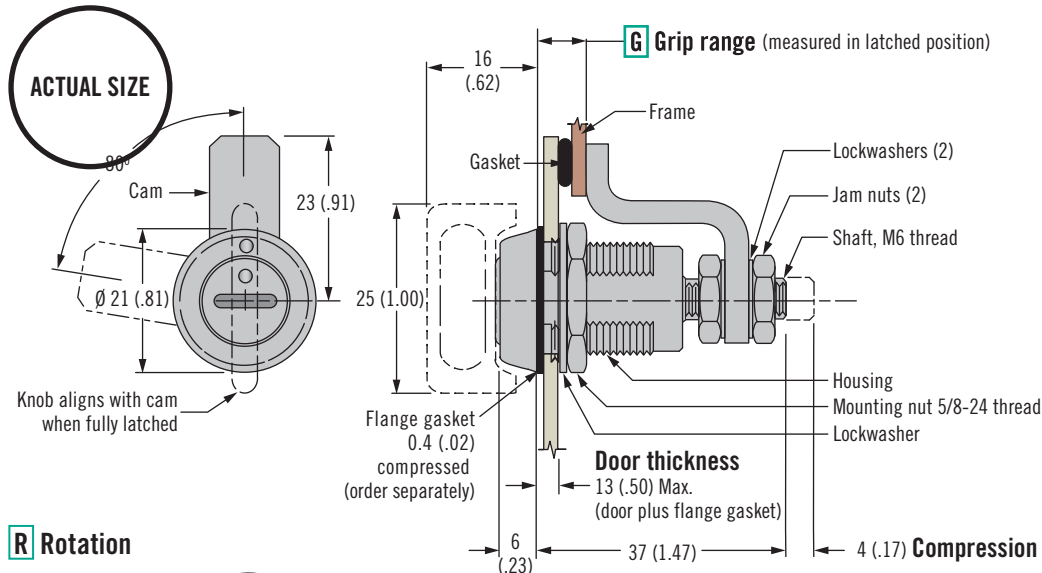
1-800-453-1692

www.aboveboardelectronics.com

E3 VISE ACTION® Compression Latch

Zinc and plated steel · Tool or hand operated

Adjustable grip · 13.5mm size



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

Material and Finish
Zinc alloy, powder coated and steel, zinc plated

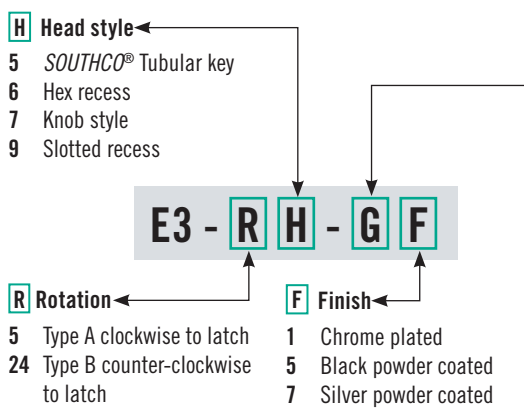
Performance Details
Maximum static load: 330 N (75 lbf)

Sealing Notes
NEMA 4 / IP65 sealing is enabled by using optional flange gasket.
Flange gasket part number: E3-0-30268-02

Installation Notes
Caution: Position cam so latching function can be achieved comfortably by hand.

Accessories
See page 90

Part Number Selection
See table



Dimensions in millimeters (inch) unless otherwise stated

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)

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



E3 VISE ACTION® Compression Latch

Zinc and plated steel · Tool or hand operated
Adjustable grip · 19.1mm size

- 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

Maximum static load:
450 N (100 lbf)

Sealing Notes

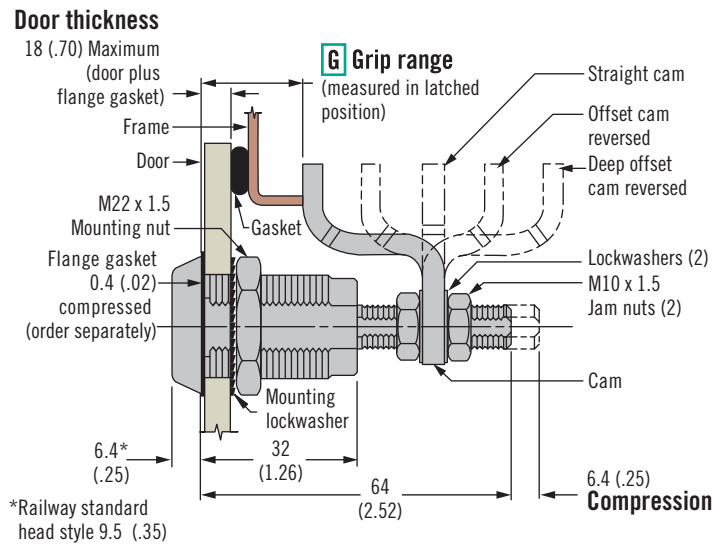
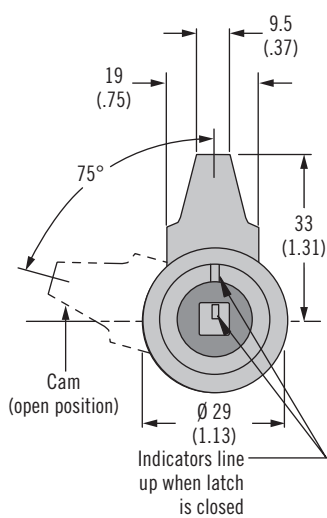
NEMA 4 / IP65 sealing is enabled by using optional flange gasket. Flange gasket part number: E5-17

Installation Notes

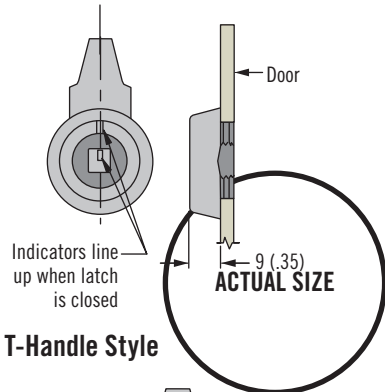
Caution: Position cam so latching function can be achieved comfortably by hand. Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf).

Keys and Accessories

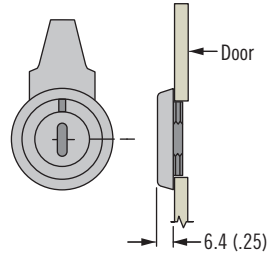
See page 90



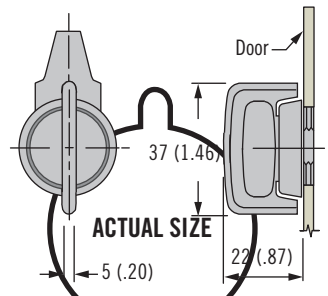
Railway Standard - Bellcore 216



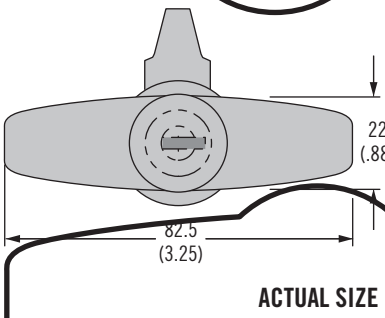
Other Tool Head Styles (slotted recess shown)



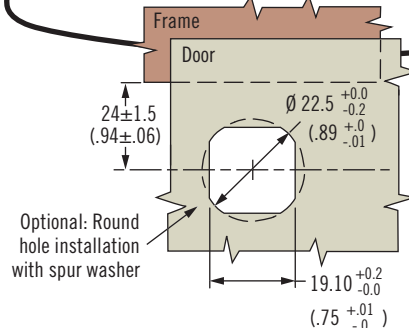
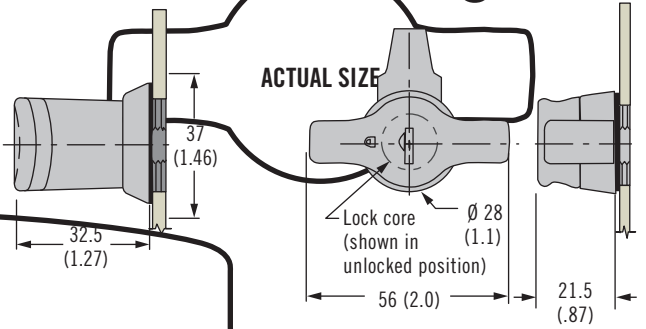
Knob Style



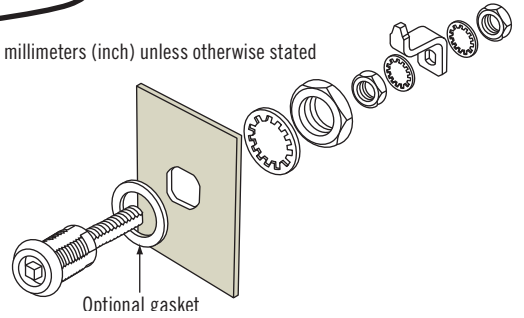
T-Handle Style



Wing Knob Style



Dimensions in millimeters (inch) unless otherwise stated



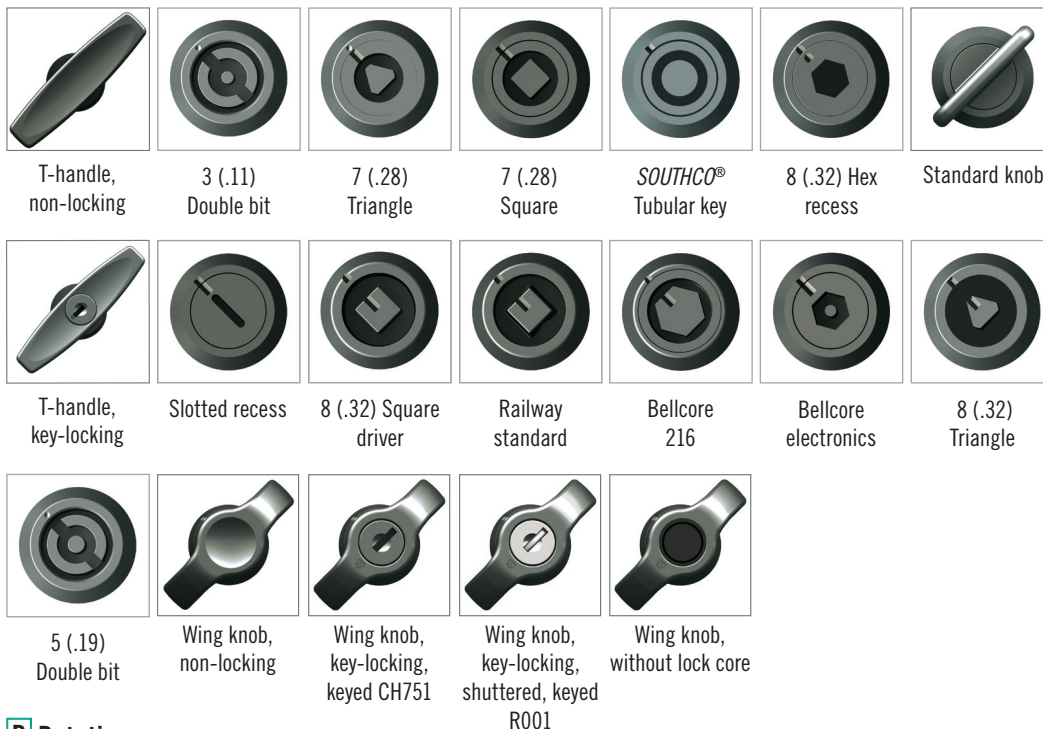
Other options available. For complete details on variety, part numbers, installation and specification, go to

www.southco.com/E3

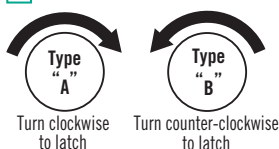


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www.aboveboardelectronics.com

H Head Styles (other head styles available)



R Rotation



Part Number Selection
See table

E3 - R H - G F

R Rotation

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

H Head style

- 1 T-handle, non-locking
- 2 3 (.11) Double bit
- 3 7 (.28) Triangle
- 4 7 (.28) Square
- 5 SOUTHCO® Tubular key
- 6 8 (.32) Hex recess
- 7 Standard knob
- 8 T-Handle, key-locking keyed CH751 (two flat keys supplied)
- 9 Slotted recess
- 10 8 (.32) Square driver
- 11 Railway standard
- 15 Bellcore 216
- 16 Bellcore electronics
- 20 8 (.32) Triangle
- 48 5 (.19) Double bit
- 50 Wing knob, non-locking
- 51 Wing knob, key-locking, keyed CH751 (1 over-molded key supplied)
- 58 Wing knob, key-locking, keyed R001 (1 overmolded key supplied)
- 59 Wing knob (no lock)

F Finish

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

Dimensions in millimeters (inch) unless otherwise stated

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

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

www.southco.com/E3





E3 VISE ACTION® Compression Latch

Zinc and plated steel · Tool or hand operated

Fixed grip · 19.1mm size

- Consistent pre-set compression
- Quick install
- Reduced internal protrusion
- EN 45545-3 E10 Compliant

Material and Finish

Zinc alloy, powder coated or chrome plated and steel plated

Performance Details

Maximum static load: 300 N (67 lbf)

Sealing Notes

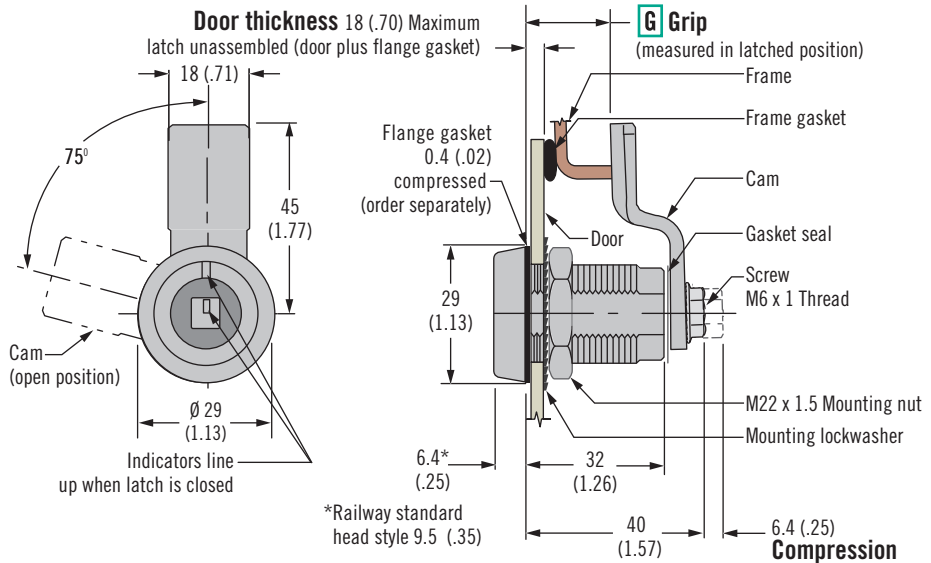
NEMA 4 / IP65 sealing is enabled by using optional flange gasket. Flange gasket part number: E5-17

Installation Notes

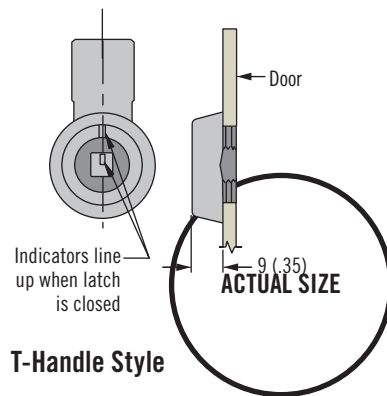
Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for the mounting screw in 10 N·m (88 in·lbf)

Keys and Accessories

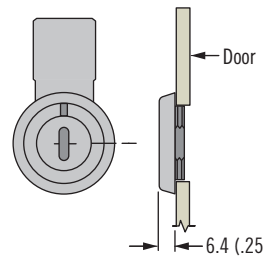
See page 90



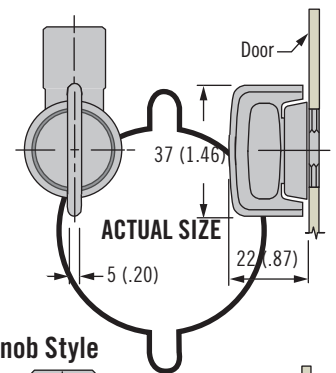
Railway Standard - Bellcore 216



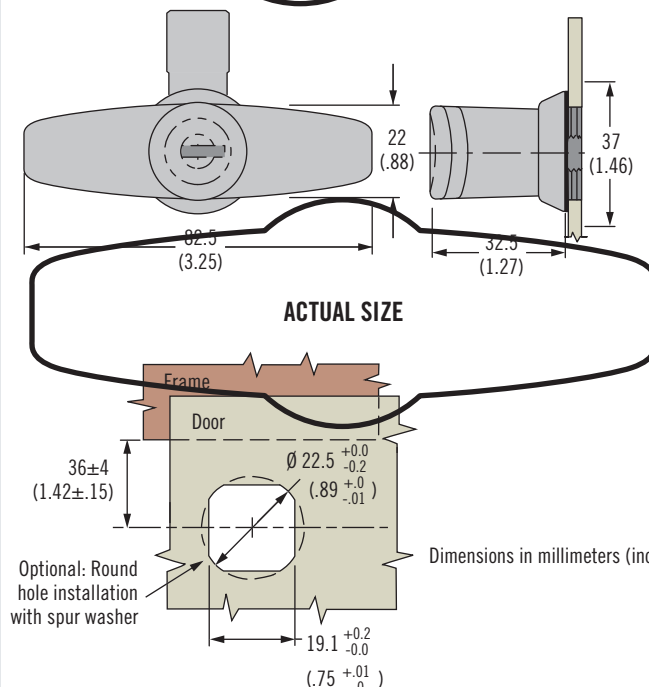
Other Tool Head Styles (slotted recess shown)



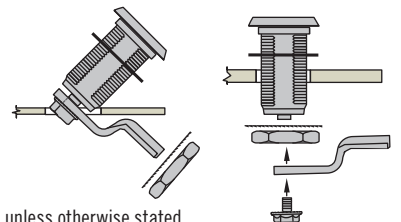
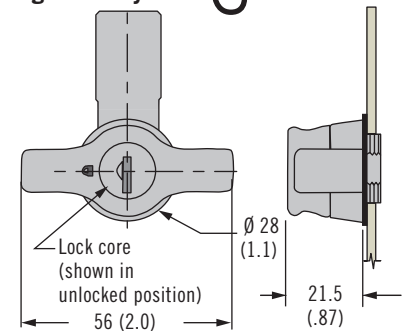
Knob Style



T-Handle Style



Wing Knob Style



Assembled Installation

Unassembled Installation

Dimensions in millimeters (inch) unless otherwise stated

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

www.southco.com/E3



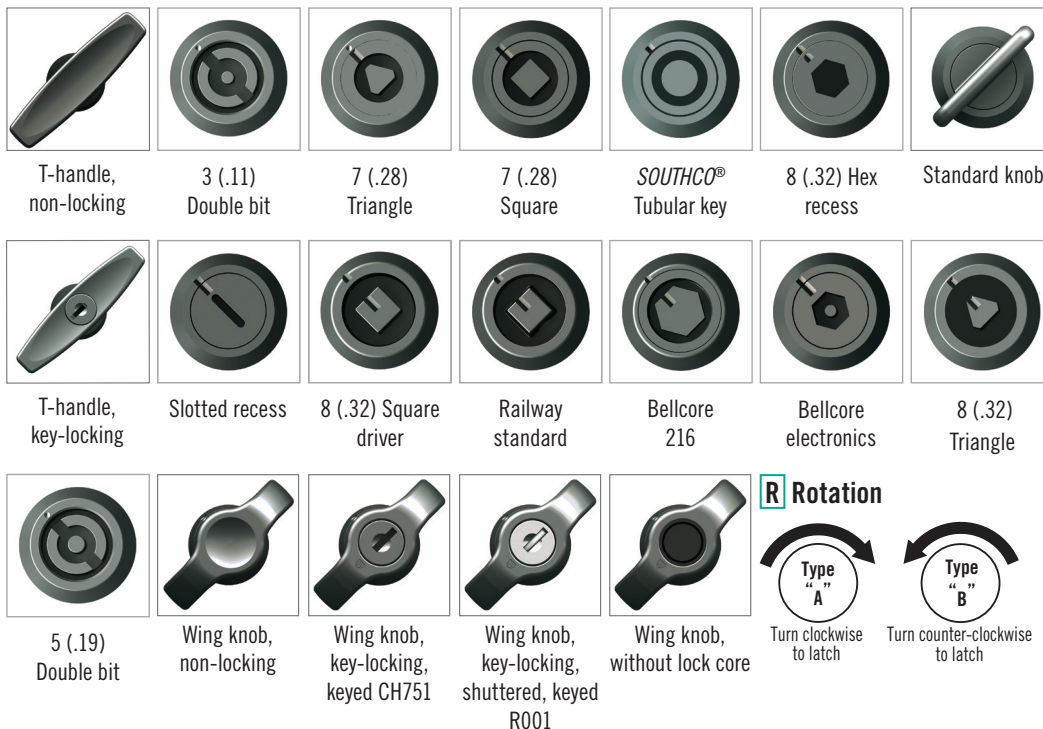
Request Info



1-800-453-1692

www.aboveboardelectronics.com

H Head Styles (other head styles available)



Part Number Selection
See table

E3 - R H - G F

- R Rotation**
- 10 Type A clockwise to latch - Latch assembled
 - 12 Type A clockwise to latch - Latch unassembled
 - 27 Type B counter-clockwise to latch - Latch assembled
 - 29 Type B counter-clockwise to latch - Latch unassembled

- F Finish**
- 1 Chrome plated
 - 5 Black powder coated
 - 7 Silver powder coated
- Dimensions in millimeters (inch) unless otherwise stated

- H Head style**
- 1 T-handle, non-locking
 - 2 3 (.11) Double bit
 - 3 7 (.28) Triangle
 - 4 7 (.28) Square
 - 5 SOUTHCO® Tubular key
 - 6 8 (.32) Hex recess
 - 7 Standard knob
 - 8 T-Handle, key-locking keyed CH751 (two flat keys supplied)
 - 9 Slotted recess
 - 10 8 (.32) Square driver
 - 11 Railway standard
 - 15 Bellcore 216
 - 16 Bellcore electronics
 - 20 8 (.32) Triangle
 - 48 5 (.19) Double bit
 - 50 Wing knob, non-locking
 - 51 Wing knob, locking, keyed CH751 (1 overmolded key supplied)
 - 58 Wing knob, locking, keyed R001 (1 overmolded key supplied)
 - 59 Wing knob (no lock)

G Grip Table

Total Grip	G	Maximum Door Thickness for Assembled Latch	Total Grip	G	Maximum 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	7 (.28)
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	



E3 VISE ACTION® Compression Latch

Zinc and plated steel · Tool or hand operated
 Three hole mount · Adjustable grip · 19.1mm size

- Consistent pre-set compression
- Easy grip adjustment

Material and Finish

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

Performance Details

Maximum static load:
 450 N (100 lbf)

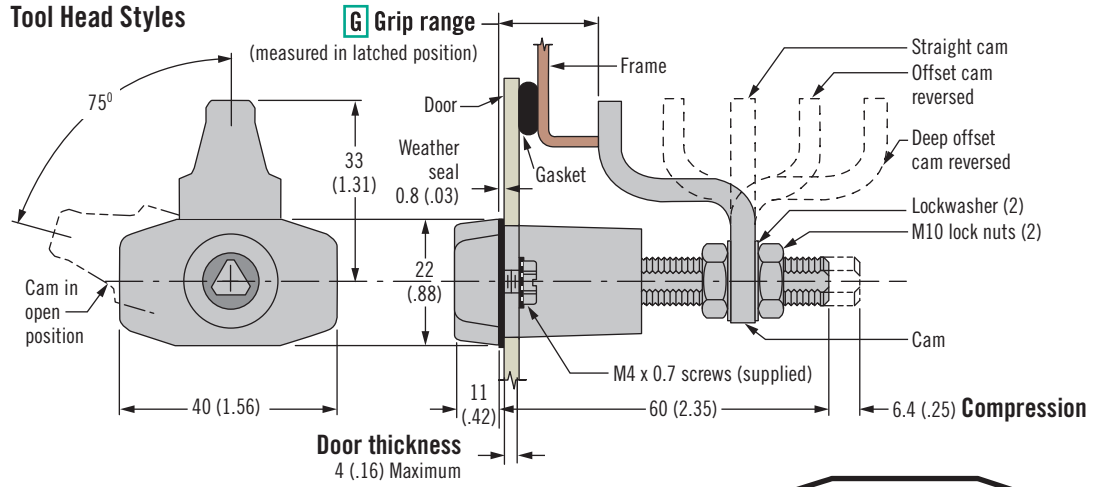
Installation Notes

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

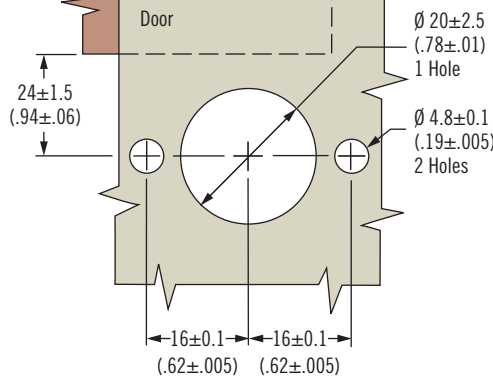
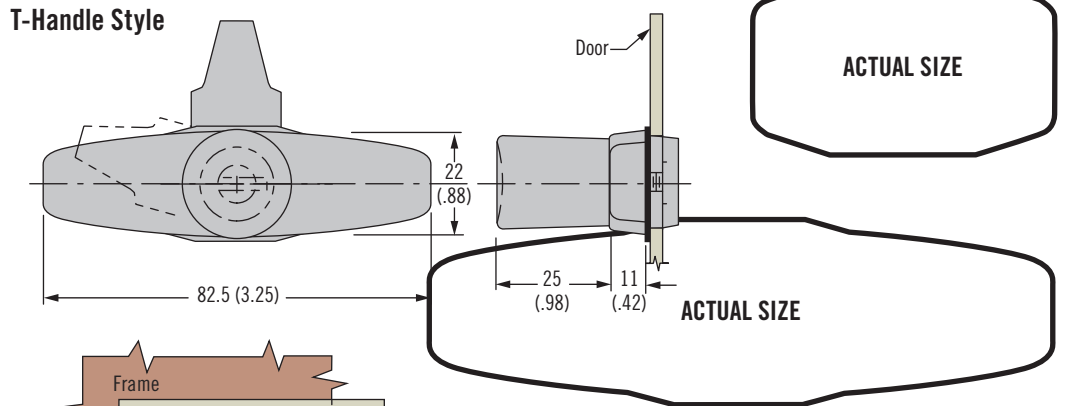
Keys and Accessories

See page 90

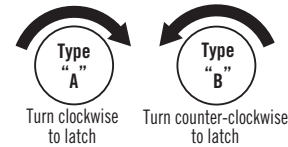
Tool Head Styles



T-Handle Style



R Rotation



Part Number Selection

See table

Dimensions in millimeters (inch) unless otherwise stated

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)	51 (2.00)	Straight cam

H Head style

- 1 T-handle non-locking
- 2 3 (.11) Double bit
- 3 7 (.28) Triangle
- 4 7 (.28) Square
- 5 SOUTHCO® Tubular key
- 6 8 (.32) Hex recess
- 8 T-Handle locking keyed CH751 (two flat keys supplied)

F Finish

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

E3 - R H - G F

R Rotation

- 3 Type A clockwise to latch
- 23 Type B clockwise to latch



E3 VISE ACTION® Compression Latch

Aluminum · Tool Operated · Fixed grip
19.1mm size



- Light Weight
- Premium finish and corrosion resistance
- Reduced internal protrusion
- 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

Maximum static load: 450 N (102 lbf)

Complies with DIN EN 61373 vibration standard

(See www.southco.com for details)

Sealing Notes

NEMA 4 and IP65 achieved using gasket supplied

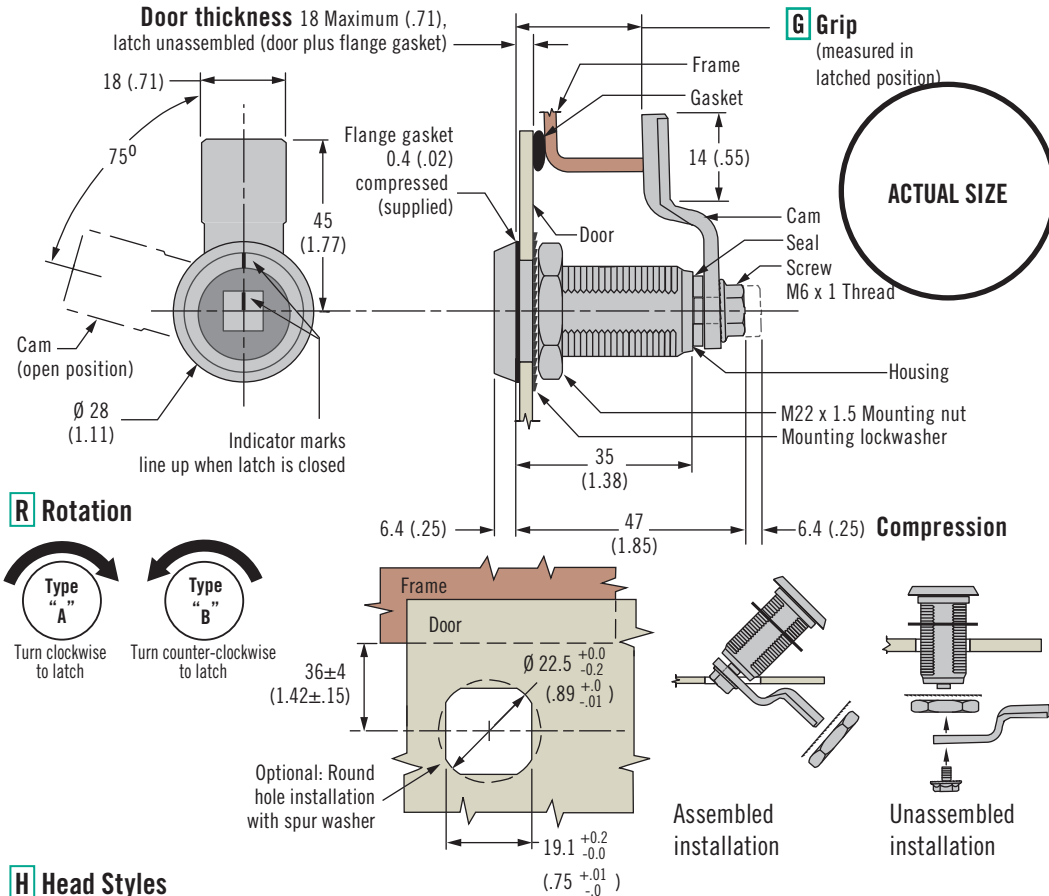
Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for the mounting screw is 10 N·m (88 in·lbf)

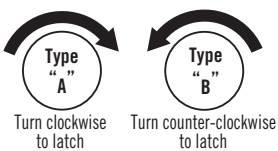
Keys and accessories see page 90

Part Number Selection

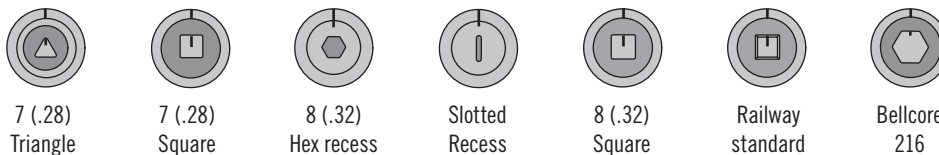
Select grip from table, if your grip is between two options choose smaller.



R Rotation



H Head Styles



H Head style

- 3 7 (.28) Triangle
- 4 7 (.28) Square
- 6 8 (.32) Hex recess
- 9 Slotted Recess
- 10 8 (.32) Square
- 11 Railway standard
- 15 Bellcore 216

F Finish

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

R Rotation

- 10 Type A clockwise to latch - Latch assembled
- 12 Type A clockwise to latch - Latch unassembled
- 27 Type B counter-clockwise to latch - Latch assembled
- 29 Type B counter-clockwise to latch - Latch unassembled

Dimensions in millimeters (inch) unless otherwise stated

G Grip Table

Total Grip	G	Max. Door Thickness for Assembled Latch	Total Grip	G	Max. Door Thickness for Assembled Latch	Total Grip	G	Max. Door Thickness for Assembled Latch	Total Grip	G	Max. Door Thickness for Assembled Latch
20 (.79)	00	1 (.04)	30 (1.18)	05	7 (.28)	40 (1.57)	10	7 (.28)	50 (1.97)	15	7 (.28)
22 (.87)	01	2 (.08)	32.5 (1.28)	06		42 (1.65)	11		52 (2.05)	16	
24 (.94)	02	4 (.16)	34 (1.34)	07		44 (1.73)	12		54 (2.13)	17	
26 (1.02)	03	5 (.20)	36 (1.42)	08		46 (1.81)	13		56 (2.20)	18	
28 (1.10)	04	6 (.24)	38 (1.50)	09	48 (1.89)	14	58 (2.28)	19			





E3 VISE ACTION® Compression Latch Accessories

Keys

Material and Finish

Steel, zinc plated

Part Number

Steel tubular key (order separately)

Small E3 latches: E3-26-819-15

Large E3 latches: E3-5-15

Material and Finish

Zinc alloy or nylon

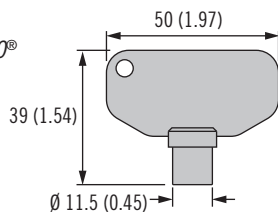
Notes

*Does not work with 7mm tapered triangle

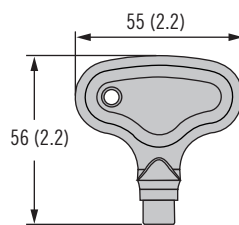
Keys - Steel

For latches with *SOUTHCO*®

Tubular key head styles



Keys - Zinc or Nylon



H Head style

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

F Finish

- 1 Plated zinc
- 2 Natural zinc
- 3 Nylon black

E3 - H - F

Key Styles

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

Part Number

Overmolded key CH751:

Single: PK-10-10-05

Pair: PK-10-01-05

Overmolded key R001:

Single: PK-10-10-05-KR001

Pair: PK-10-01-05-KR001

Flat key

Pair: PK-10-01

Overmolded Keys

Key CH751

PK-10-10-05

Key R001

PK-10-10-05-KR001



Flat Keys

Key CH751

PK-10-01

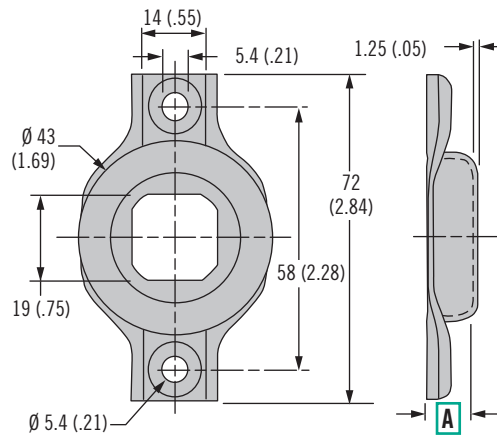
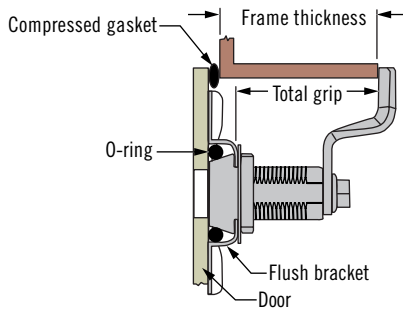


Dimensions in millimeters (inch) unless otherwise stated



E3 VISE ACTION® Compression Latch Accessories

Fixed bracket for flush mounting



Material and Finish

Stainless steel or galvanized steel with rubber o-ring

Sealing Notes

Environmental sealing is achieved by using latch with flange gasket (optional or included with latch see pages 78-89) and sealing the mounting screw threads.

Notes

For use with 19.1mm size single hole mount tool operated E3 VISE ACTION® compression latches, see pages 78-81, 84-87, 89

A	Part Number	Material
6.6	E3-77-251-12	Galvanized steel
*9.3	E3-77-252-12	Galvanized steel
6.6	E3-77-251-24	304 Stainless steel
*9.3	E3-77-252-24	304 Stainless steel
* For use with Railway standard or Bellcore 216 style only		

To calculate the **Total Grip**, use the following formula:

$$\text{Frame Thickness} + \text{Compressed Gasket} - \text{A}$$

Use this **Total Grip** with the appropriate E3 tables in the SOUTHCO® Handbook to determine cam type.

Door preparation

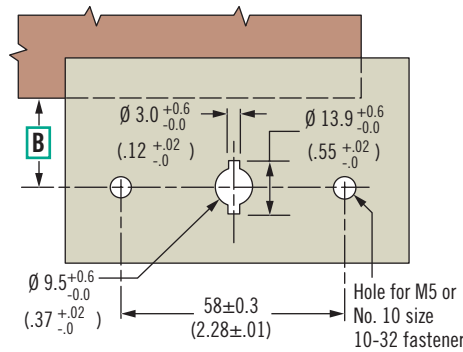
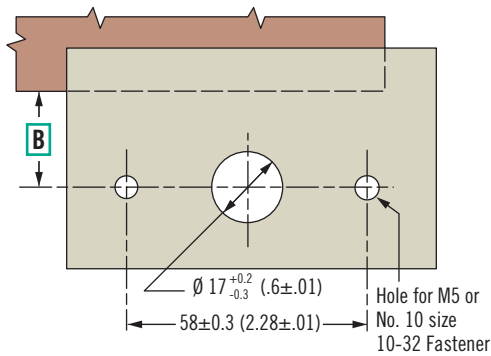
For **B** dimensions:

Large adjustable grip 24 ± 1.5 (.94 ± .06)

Fixed grip 36 ± 4 (1.42 ± .15)

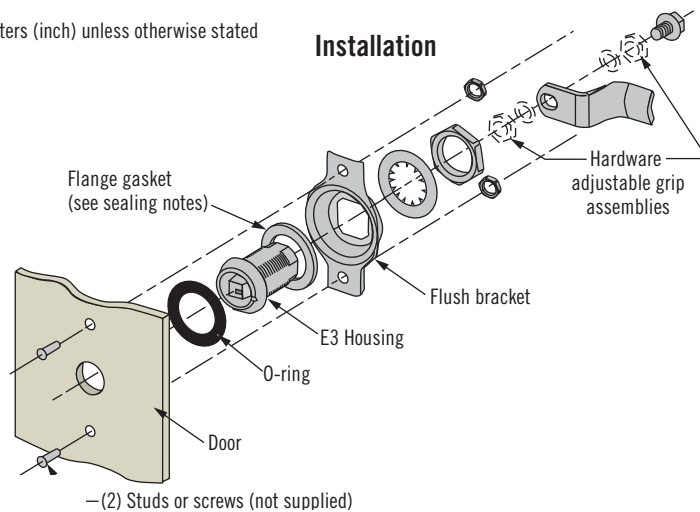
Double bit (key retained style)

Key can only be removed in the latch closed position.



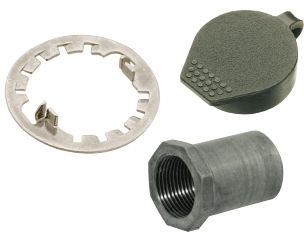
Dimensions in millimeters (inch) unless otherwise stated

Installation



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

www.southco.com/E3



E3 VISE ACTION® Compression Latch Accessories

Sealing & spur washers · Sealing covers · Sleeve nut

Material and Finish

Sealing washers: Neoprene, natural

Spur washer: Steel, zinc plated

Sealing cover: Thermoplastic elastomer, black

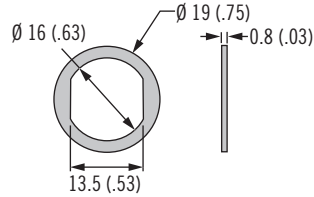
Notes

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

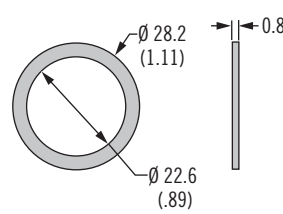
Sealing cover cannot be used with Railway standard or Bellcore 216 styles

Sealing Washers

13.5mm size

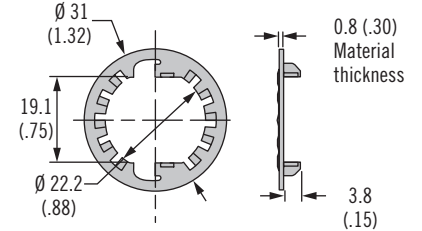


19.1mm size

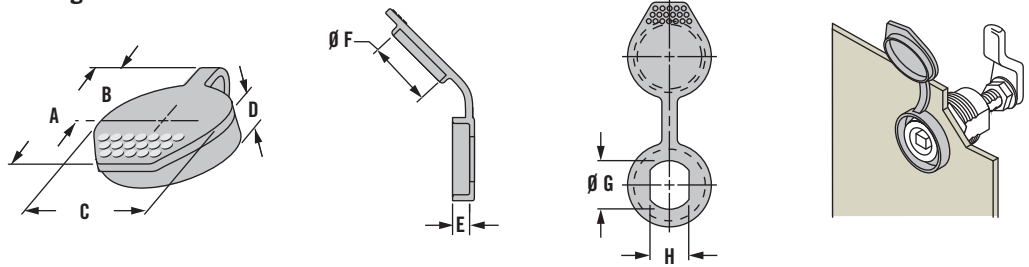


Spur Washer

19.1mm size



Sealing Cover



Latch Installation Hole Size		Dimensions					
Ø G	Distance across flat H	A	B	Ø C	D	E	Ø F
16 (.63)	13.5 (.53)	40 (1.58)	20 (.85)	29 (1.13)	10.5 (.42)	6.1 (.24)	22.3 (.88)
22.5 (.88)	19.6 (.77)	47 (1.84)	28 (1.09)	35 (1.38)	11.7 (.46)	6.9 (.27)	28.7 (1.13)

Part Number

See table

Type	Part Number	Adjustment Formula
Sealing washer 13.5mm size	E3-0-30268-02	Add 0.4 (.02) to door thickness
Sealing washer 19.1mm size	E5-17	Add 0.4 (.02) to door thickness
Spur washer 19.1mm size	90-6-875	Add 0.8 (.03) to door thickness
Sealing cover 13.5mm size	90-1	Add 2.3 (.09) to door thickness
Sealing cover 19.1mm size	90-3	Add 2.3 (.09) to door thickness

Material and Finish

Zinc alloy

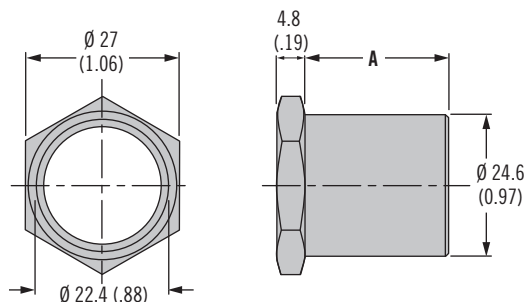
Installation Notes

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

Part Number

See table

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



Dimensions in millimeters (inch) unless otherwise stated

A	Part Number
12.7 (.50)	E3-34-263-36
25 (.98)	E3-34-264-36

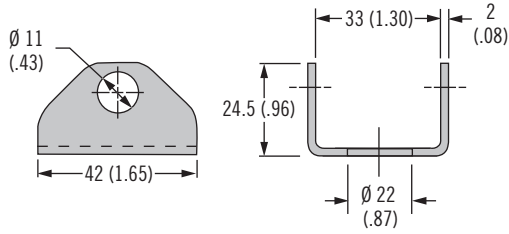


E3 VISE ACTION® Compression Latch Accessories

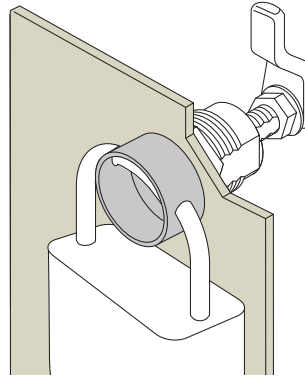
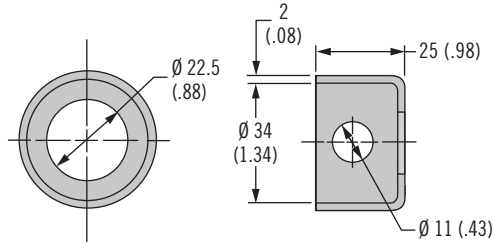
Padlock brackets · Finger pulls



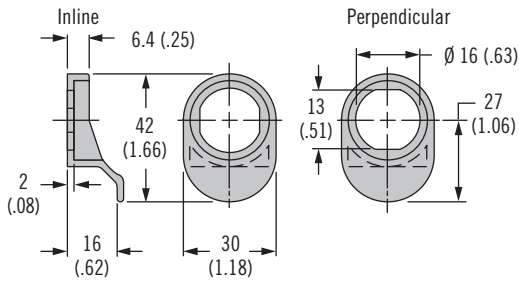
Padlock Bracket (Square)



Padlock Bracket (Round)

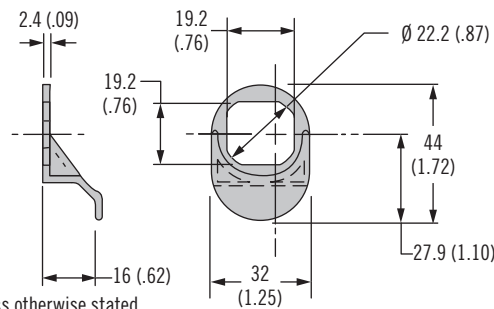


Pull Tab (13.5mm size)

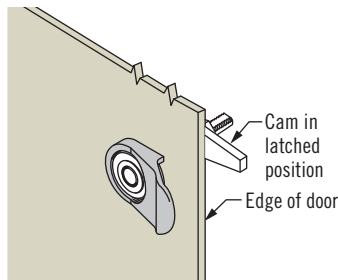


Dimensions in millimeters (inch) unless otherwise stated

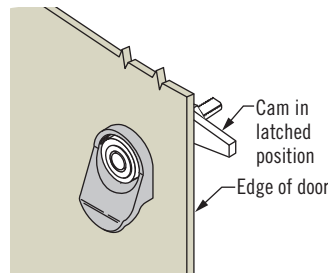
Pull Tab (19.1mm size)



Pull tab in-line with cam



Pull tab perpendicular to cam



Material and Finish

Padlock bracket: Stainless steel, black powder coated
 Pull tab: Nylon, black

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

Type	Part Number	Adjustment Formula
Padlock bracket square	E3-77-101-31	Add 2 (.08) to door thickness
Padlock bracket round	E3-77-102-31	Add 2 (.08) to door thickness
Pull tab 13.5mm size - In-line	E3-27-61	Add 2 (.08) to door thickness
Pull tab 13.5mm size - Perpendicular	E3-27-62	Add 2 (.08) to door thickness
Pull tab 19.1mm size	E3-27-1	Add 2.4 (.09) to door thickness

Part Number

See table

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

www.southco.com/E3





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

Stainless steel, aluminum, black powder coated and plated steel

Performance Details

Maximum static load:
1000 N (225 lbf)

Installation Notes

1. Insert latch and tighten 4 mounting nuts.
2. With latch in closed position, adjust jam nuts to position cam at correct grip.
Maximum tightening torque:
20 N•m (177 in-lbf)

Keys

See page 90

Notes

N2 product family:
See opposite page for details

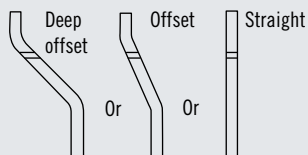
Part Number Selection

See table

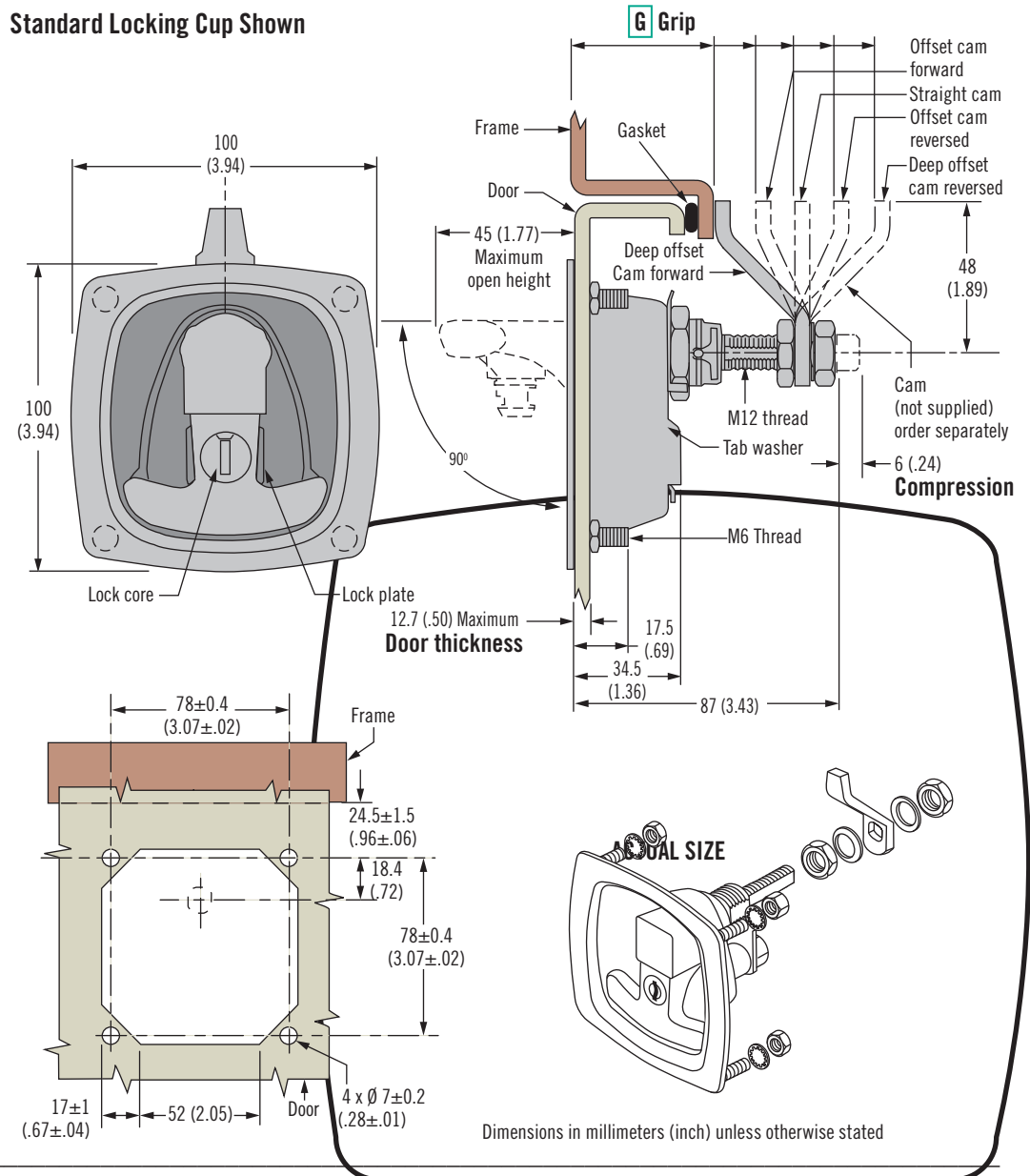
Order both parts separately

Choose latch body style

Choose cam (see table)



Standard Locking Cup Shown



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

Cam Part Number Table (order separately)

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

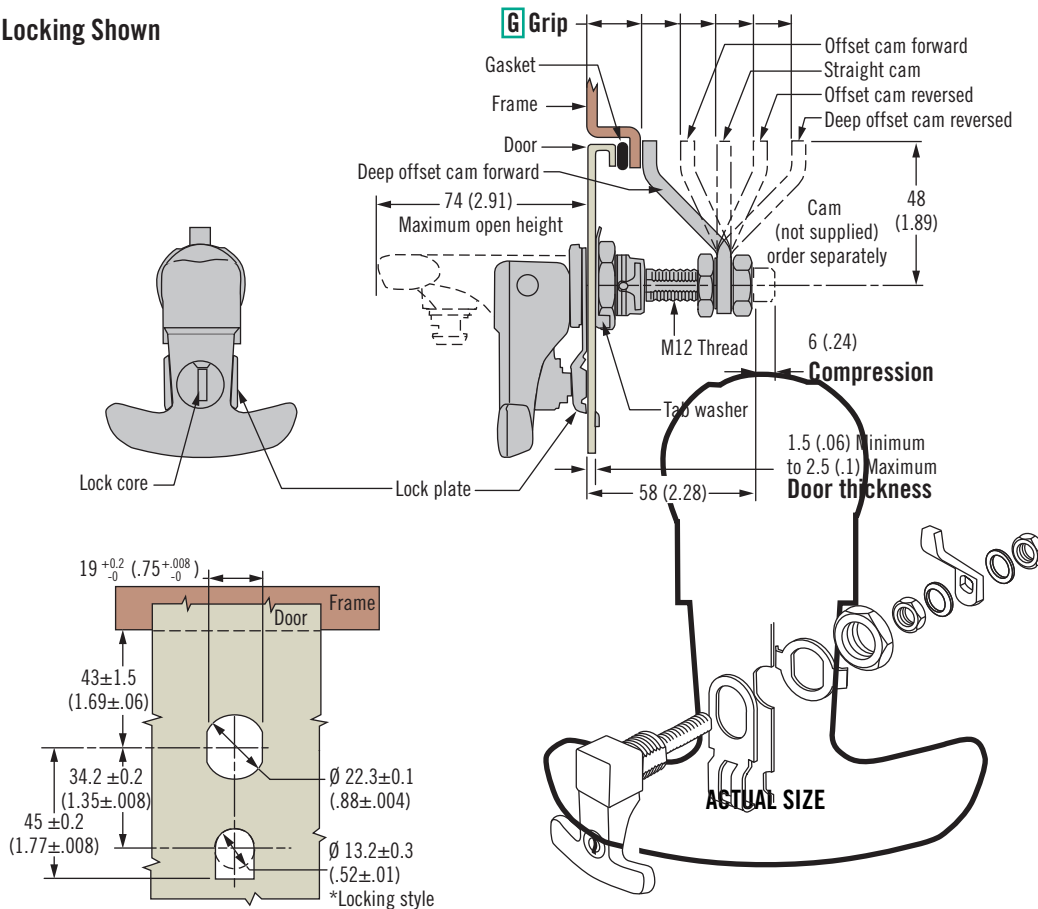


N2 Compression Latch

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



Locking Shown



Dimensions in millimeters (inch) unless otherwise stated

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

Material and Finish

Stainless steel, aluminum, black powder coated and plated steel

Performance Details

Maximum static load:
1000 N (225 lbf)

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 90

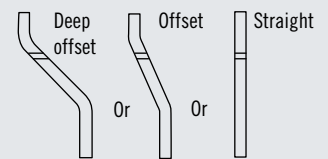
Part Number Selection

See table

Order both parts separately

Choose latch body style

Choose cam (see table)



- F** Finish
- 5 Black powder coated
 - 20 Polished stainless

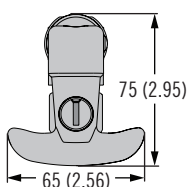
- L** Locking style
- 0 Non-locking
 - 1 Key-locking keyed alike
CH751 (2 keys supplied)

Latch part number (no cam)

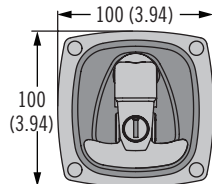
N2 - 2 - 10 L - 01 - F

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

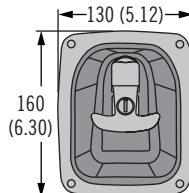
N2 Product Family



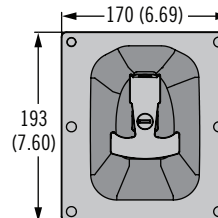
No Cup Style



Standard Cup



Medium Cup



Large Cup

Notes

Other styles available
Custom colors and keycodes
Contact Southco for details

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

www.southco.com/N2





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)

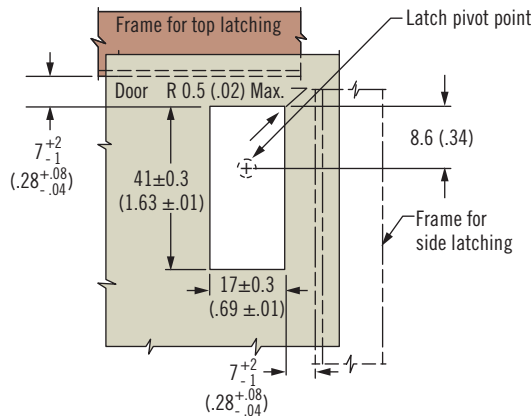
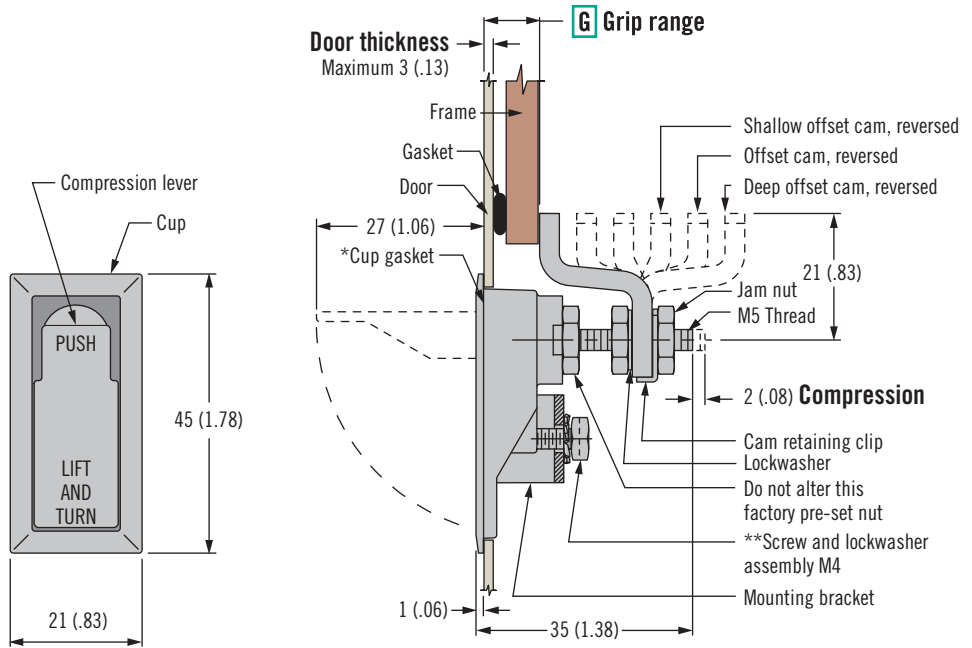
Sealing Notes

* 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



Dimensions in millimeters (inch) unless otherwise stated

ACTUAL SIZE

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

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

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

www.southco.com/62



Request Info

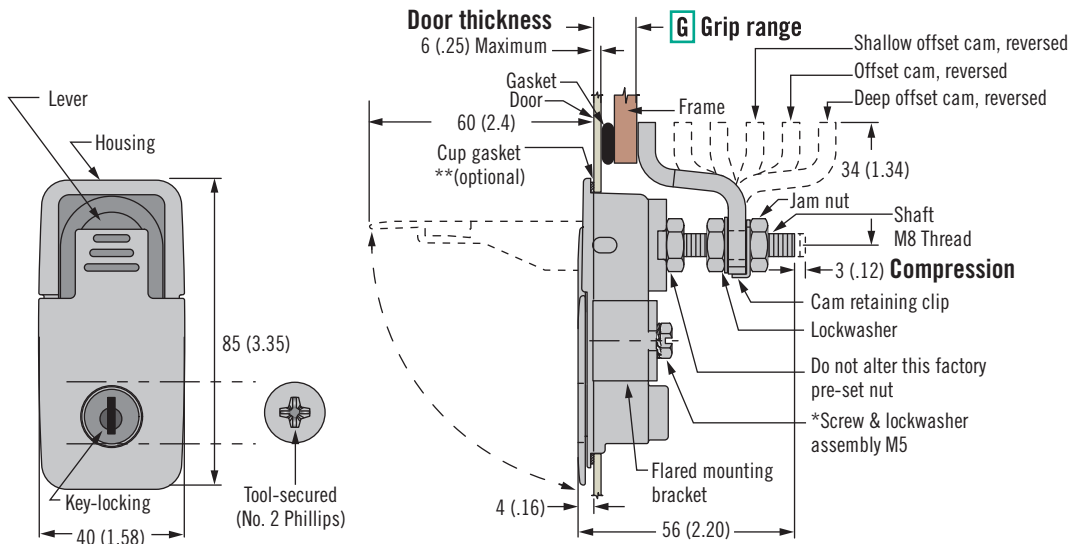


1-800-453-1692

www.aboveboardelectronics.com

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)

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

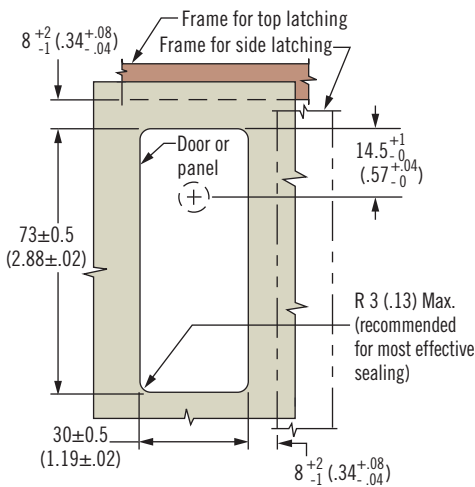
PK-10-01
See page 90

Notes

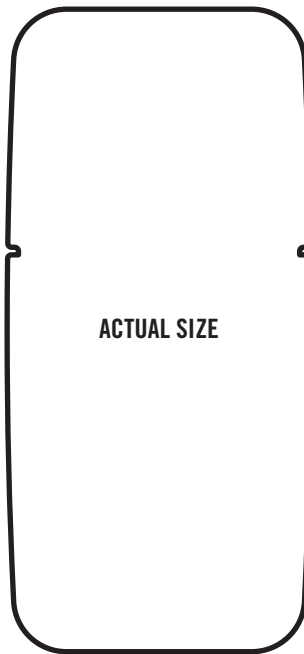
For lock core selection and a complete overview of the *SOUTHCO*® Key-Choice System see page 158

Part Number Selection

See table



Dimensions in millimeters (inch) unless otherwise stated

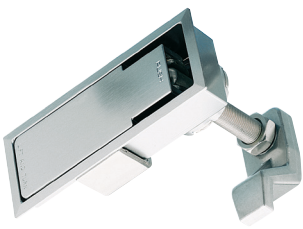


62 - 4 L - G F 1 - P

- L Lock style**
- 0 Non-locking
 - 2 Key-locking without dust shutter keyed alike CH751
 - 3 Tool secured No. 2 Phillips
 - 21 Locking without lock core (order separately see page 158)

- 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)

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

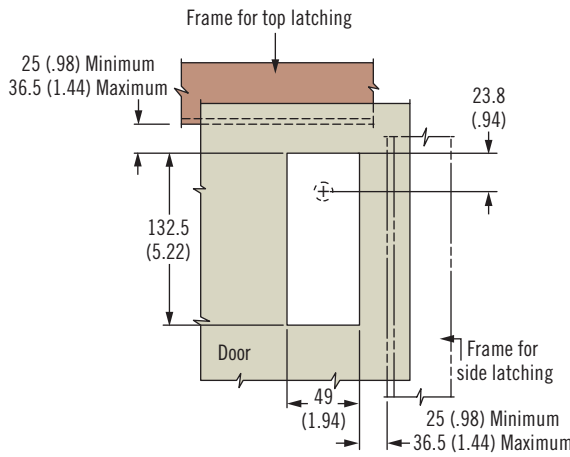
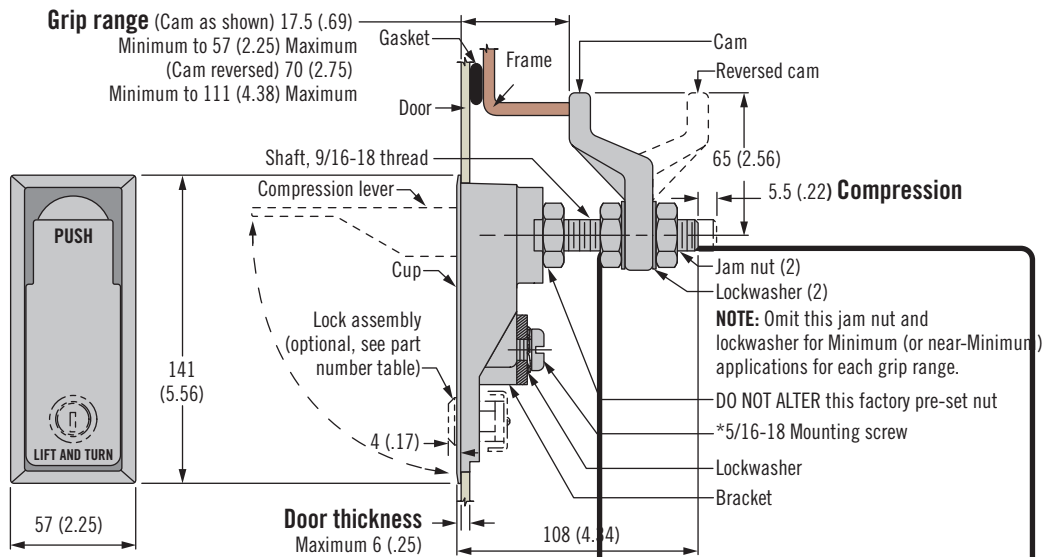


Keys

See page 90

Part Number Selection

See table



Dimensions in millimeters (inch) unless otherwise stated

ACTUAL SIZE

H Head style

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

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

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

www.southco.com/62



Request Info

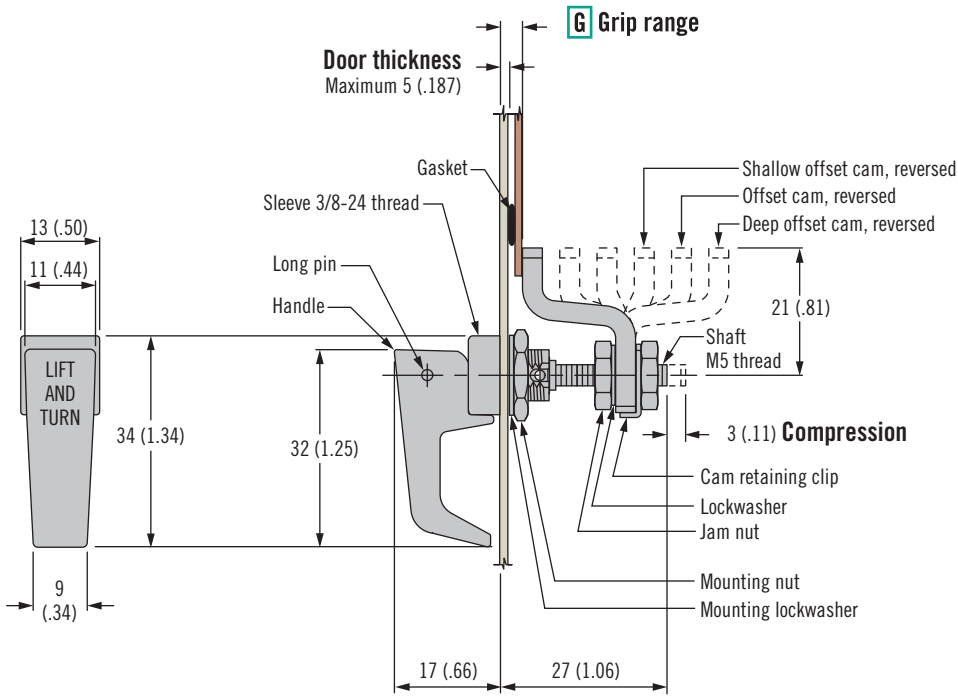


1-800-453-1692

www.aboveboardelectronics.com

62 Compression Latch

Lift & turn series · Handle style · Adjustable grip



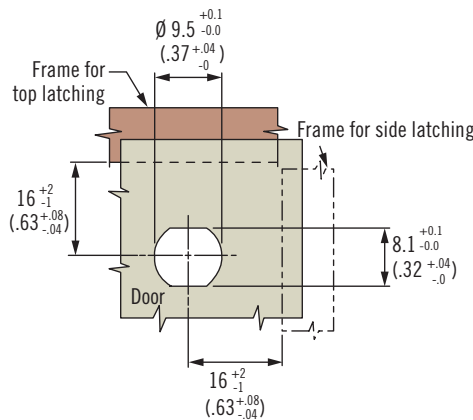
- Easy grip adjustment
- Intuitive operation

Material and Finish

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

Performance Details

Maximum static load: 220 N (50 lbf)



Dimensions in millimeters (inch) unless otherwise stated

Part Number Selection

See table

62 - 20 - G F

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

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

www.southco.com/62





62 Compression Latch

Lift & turn series · Handle style · Adjustable grip

- Easy grip adjustment
- Intuitive operation

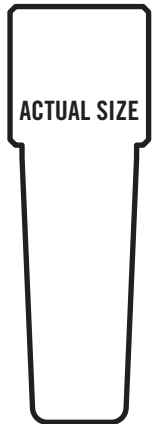
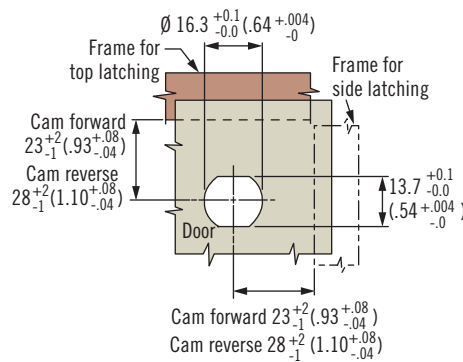
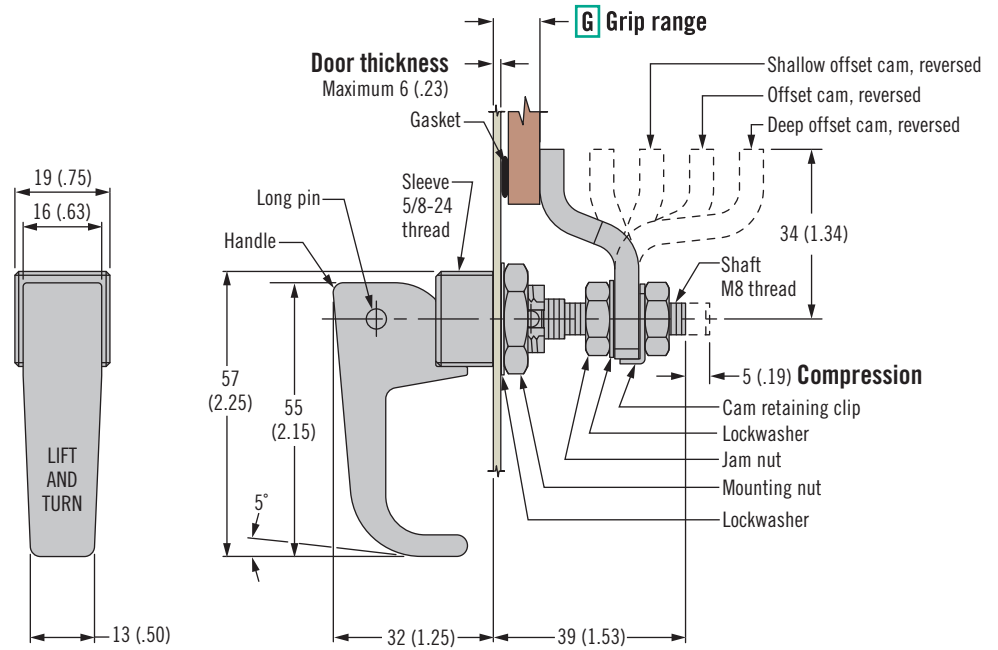
Material and Finish

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

Performance Details

Maximum static load:

550 N (125 lbf)



Dimensions in millimeters (inch) unless otherwise stated

Part Number Selection

See table

62 - 10 - G F		G Grip	Minimum	Maximum	Cam Type
1	2 (.08)	2	42 (1.66)	52 (2.05)	Deep offset cam, forward
			12 (.47)	22 (.87)	Shallow offset cam, forward
2	32 (1.25)	3	42 (1.66)	32 (1.25)	Offset cam, reversed
			22 (.87)	32 (1.25)	Shallow offset cam, reversed

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

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

www.southco.com/62



Request Info

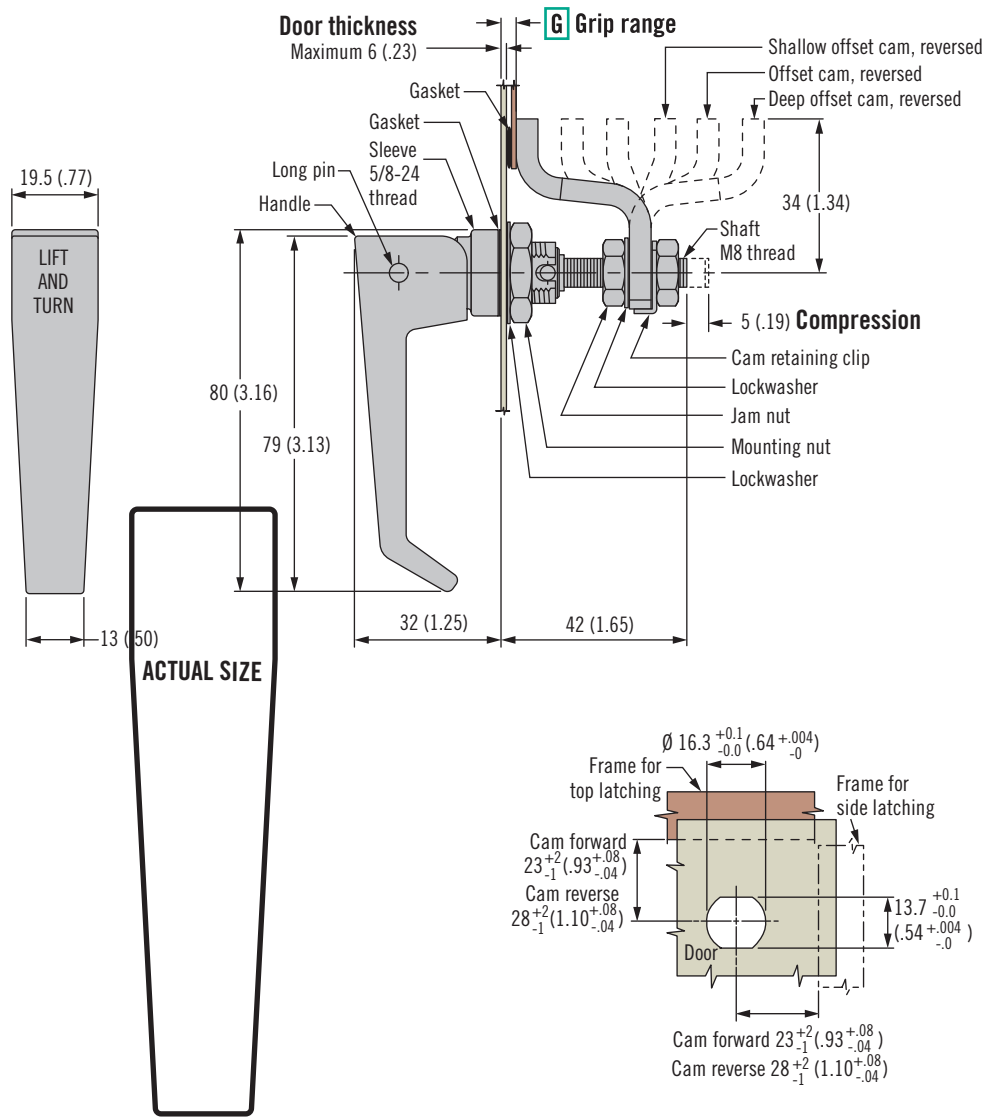
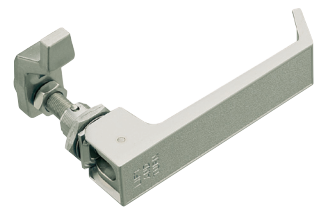


1-800-453-1692

www.aboveboardelectronics.com

62 Compression Latch

Lift & turn series · Handle style · Adjustable grip



Dimensions in millimeters (inch) unless otherwise stated

- 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)

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

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

www.southco.com/62



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

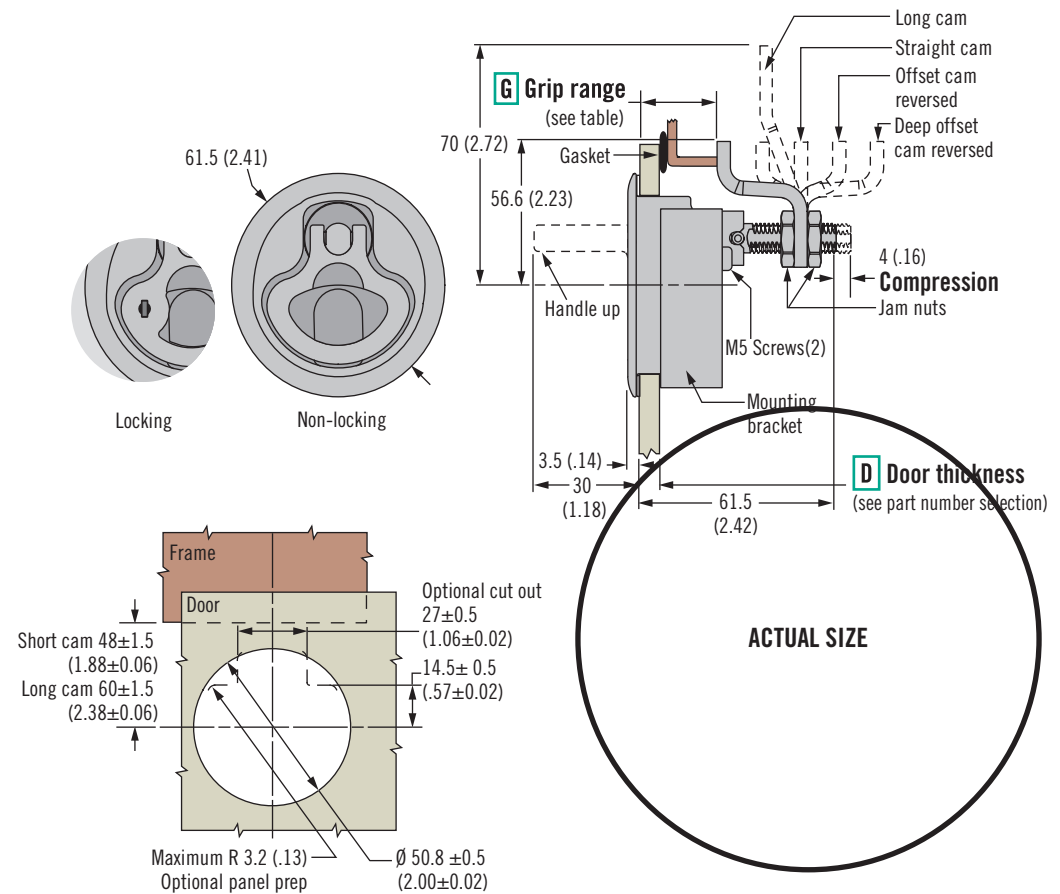


Part number: M1-525-39-S008

Part Number Selection

See table

See page 223 for complimentary styled push to close version



Dimensions in millimeters (inch) unless otherwise stated

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

M1 - 20 - L D - G 8

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)

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 (2.01 - 2.52)	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 (2.01 - 2.52)	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)

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

www.southco.com/M1A



Request Info

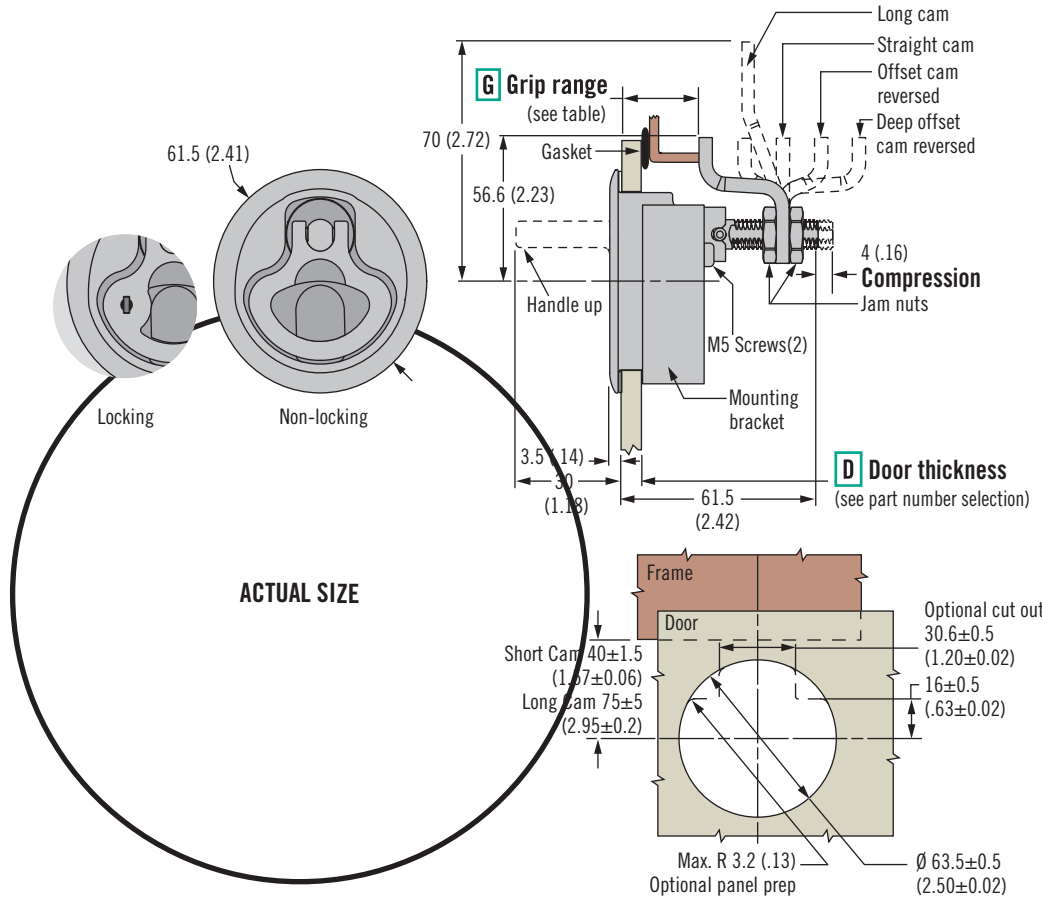
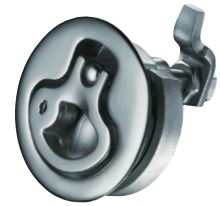


1-800-453-1692

www.aboveboardelectronics.com

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 224 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)

M1 - 25 - L D - G 8

D	Door Thickness	Grip Adjustment Value
1	2 - 12 (.075 - .475)	21.5 (.85)
2	12 - 22.5 (.475 - .885)	11.5 (.45)
3	18.5 - 29 (.73 - 1.14)	4 (.12)

Dimensions in millimeters (inch) unless otherwise stated

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 or chrome plated and steel, zinc plated

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

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



Rubber Bumper:
Part Number: C5-25-301-82



Keys

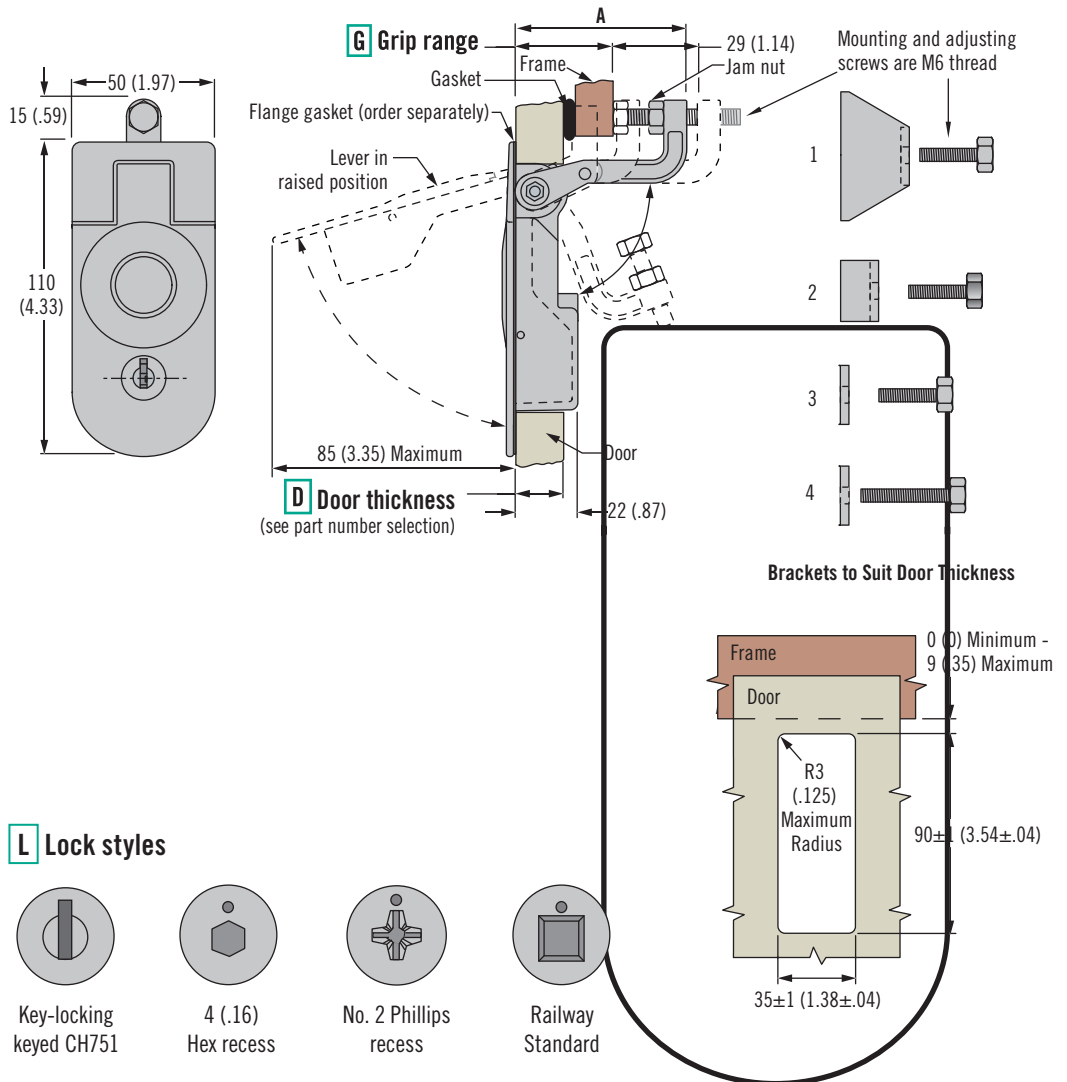
See page 90

Part Number Selection

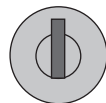
See table

Notes

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



L Lock styles



Key-locking
keyed CH751



4 (.16)
Hex recess



No. 2 Phillips
recess



Railway
Standard

Dimensions in millimeters (inch) unless otherwise stated

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)
- 9 Locking without lock core (order separately see page 158)
- 4 4 (.16) Hex recess
- 5 No. 2 Phillips recess
- 6 Railway standard

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 Latches are sold layer packed
Omit for individually packaged latches

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

C5 - L D - G 5 - P

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

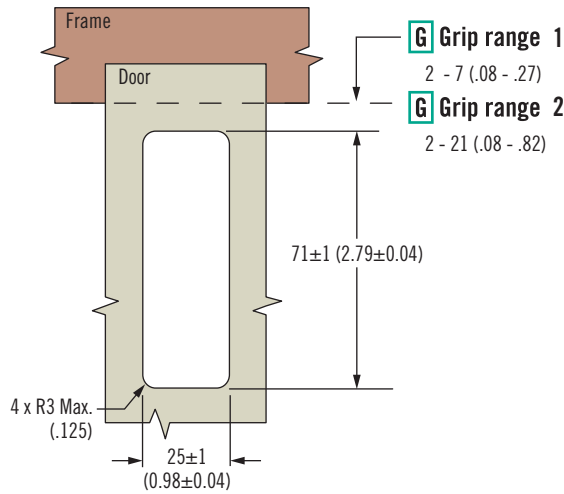
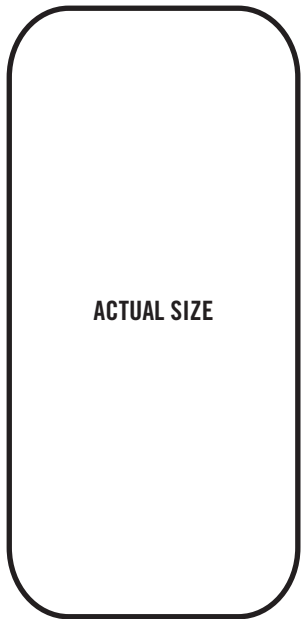
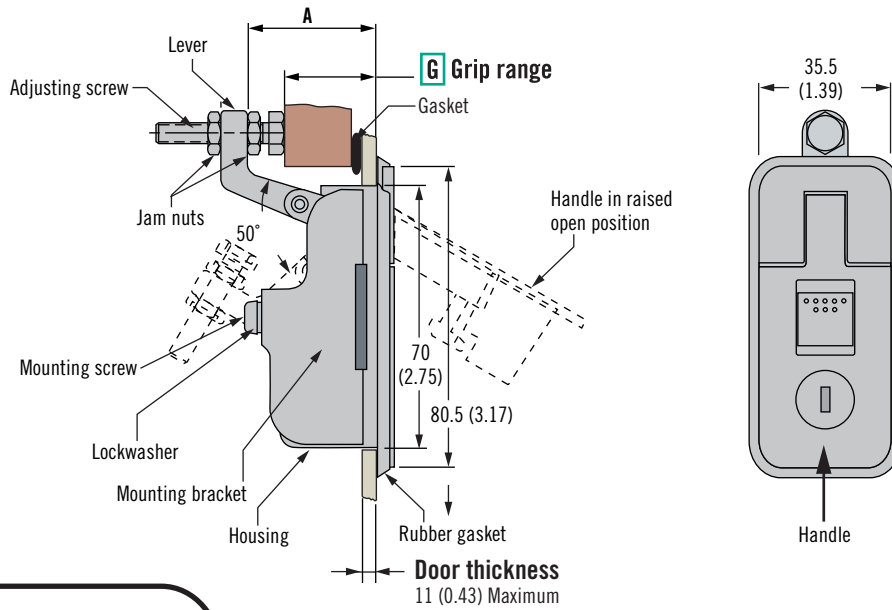
www.southco.com/C5



C5 Compression Latch

Sealed lever latch

71mm size



Dimensions in millimeters (inch) unless otherwise stated

- 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):

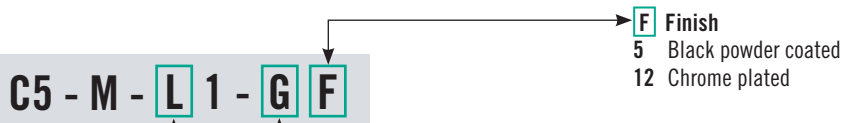
170 N (40 lbf)

Sealing Notes

Environmental sealing is achieved by sealing the mounting screw threads

Keys

See page 90



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

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

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

Part Number Selection

See table

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

www.southco.com/C5





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)

Accessories

Rubber Bumper:
Part Number: C2-25-301-82
(reduces min. and max. grip by 2 (0.08))



Keys

See page 90

Part Number Selection

See table

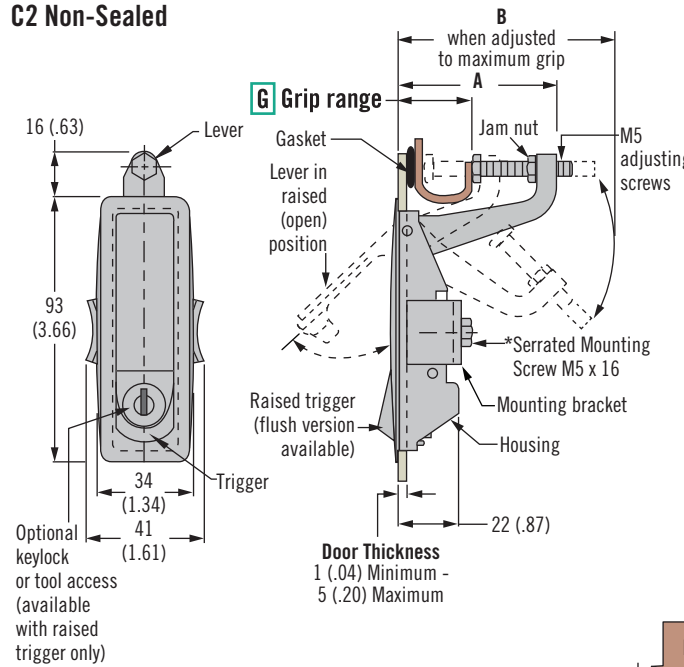
Notes

For lock core selection and a complete overview of the *SOUTHCO*[®] Key-Choice System see www.southco.com

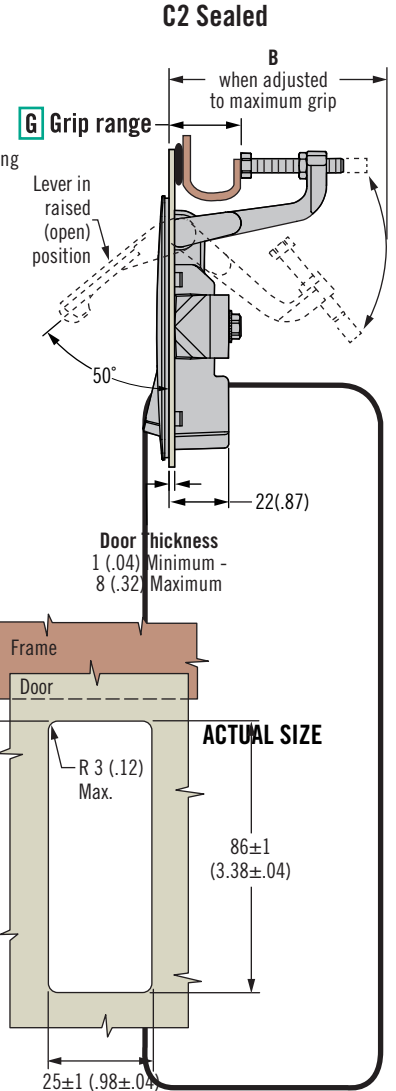
Other options available. For complete details on variety, part numbers, installation and specification, go to

www.southco.com/C2

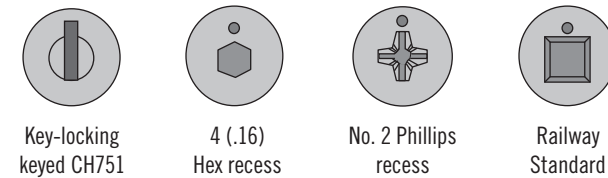
C2 Non-Sealed



C2 Sealed



L Lock Styles



Dimensions in millimeters (inch) unless otherwise stated

L Lock style

- 1 Non-locking raised trigger
- 2 Key-locking raised trigger keyed CH751 (two flat keys supplied)
- 3 Flush trigger non-locking
- 4 4 (.16) Hex recess raised trigger
- 10 No. 2 Phillips raised trigger
- 13 Locking without lock core (see page 158 for lock core options)
- 14 Railway standard

F Finish

- 1 Textured chrome
- 5 Black powder coated

P Packaging option

- 3 Latches are sold layer packed. Omit for individually packaged latches.

C2 - S G - L F - P

S Sealing Option

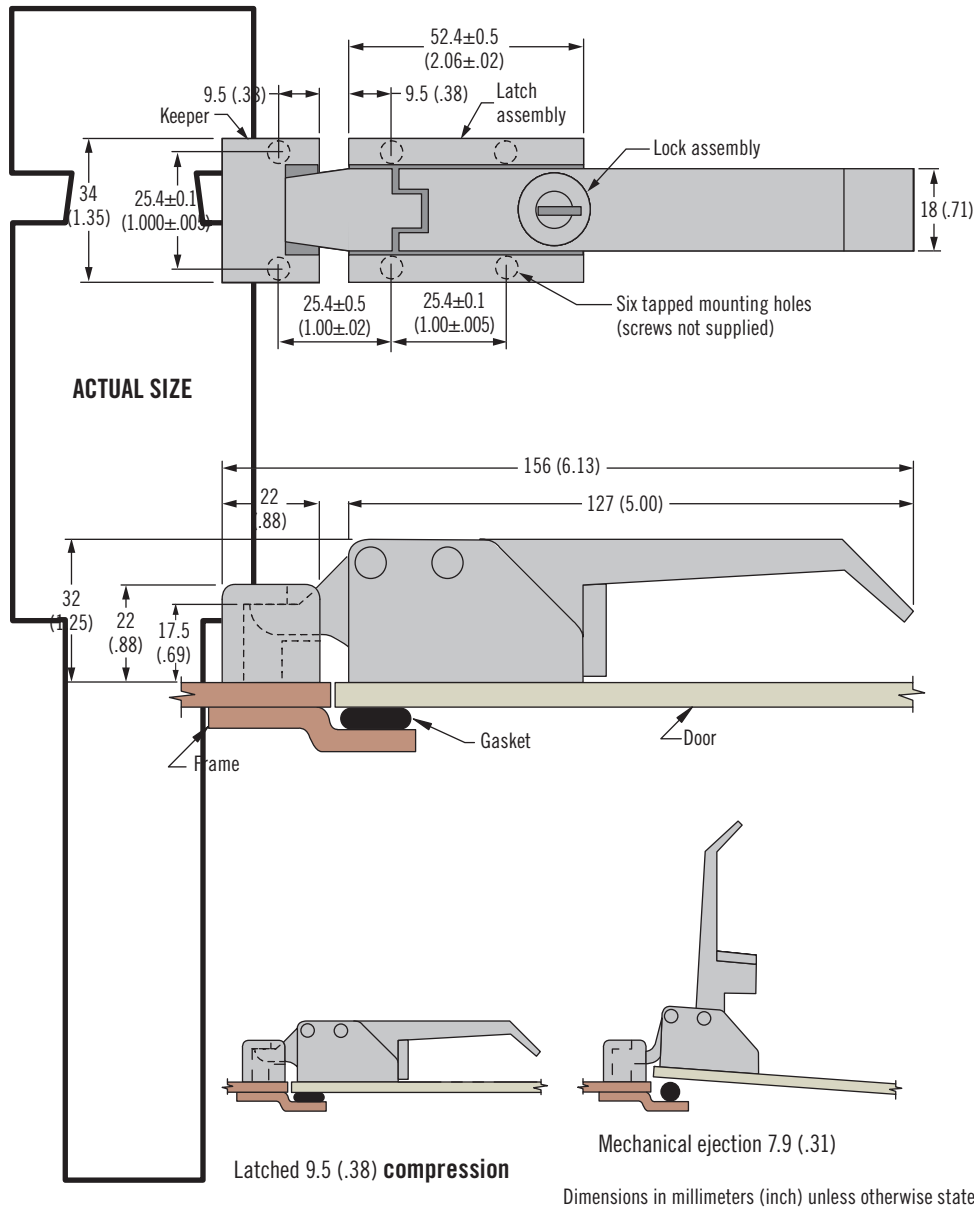
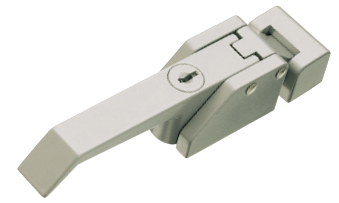
- 3 Non-sealed
- 4 Sealed

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)



A7 Compression Latch

Lever latch · Over-center action



- Intuitive operation
- Built in leverage helps open stuck doors
- Consistent gasket compression



Material and Finish

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

Performance Details

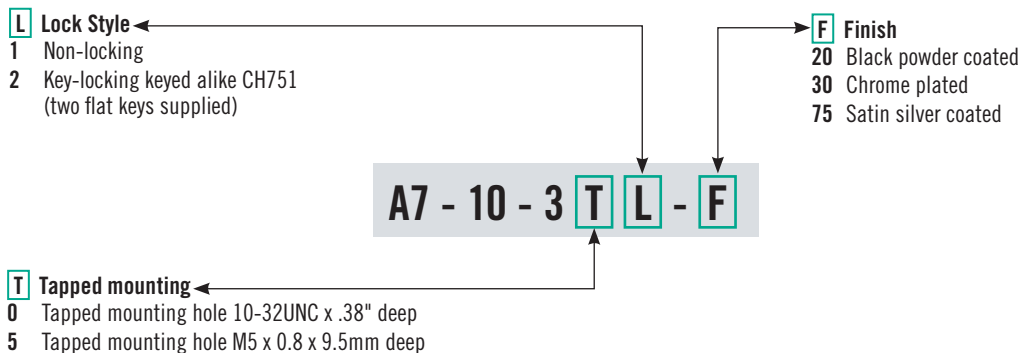
Maximum static load:
2200 N (500 lbf)

Keys

PK-10-01
See page 90

Part Number Selection

See table





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

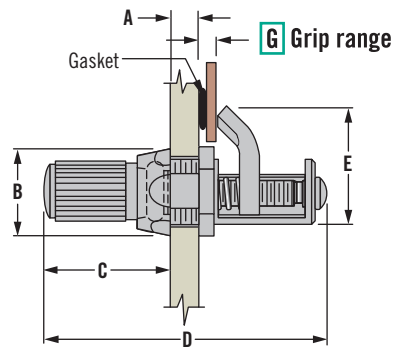
Performance Details

27: Maximum static load:

155 N (35 lbf)

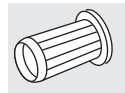
48: Maximum static load:

220 N (50 lbf)

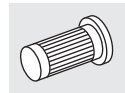


Size	A	B	C	D	E
27 Series Miniature	4.8 (.19) Maximum	10.3 (.41) Maximum	17.5 (.69) Maximum	31.8 (1.25)	13.9 (.55)
48 Series Small	4.8 (.19) Maximum	21 (.81) Maximum	19 (.75) Maximum	44 (1.73)	25.3 (.99)

Nylon knob



Knurled



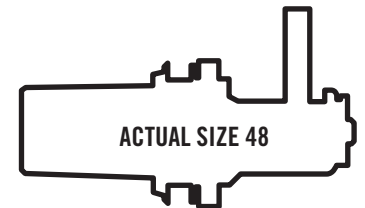
Slotted



Hex recess



Phillips recess



Dimensions in millimeters (inch) unless otherwise stated

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

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

www.southco.com/27
www.southco.com/48

A B E
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Request Info

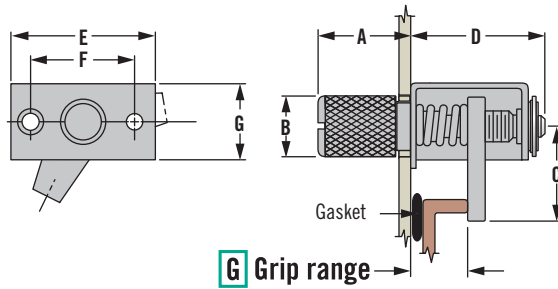
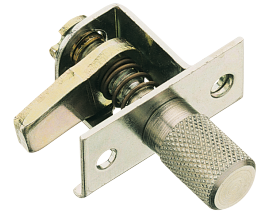


1-800-453-1692

www.aboveboardelectronics.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)

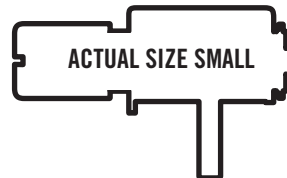
44 Medium: 490 N (110 lbf)

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)

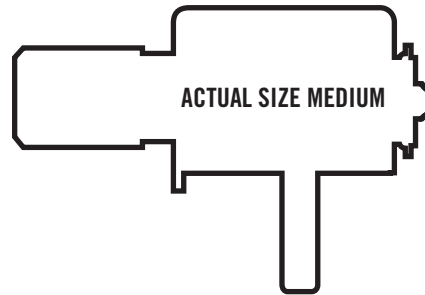
43 - Small size series

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

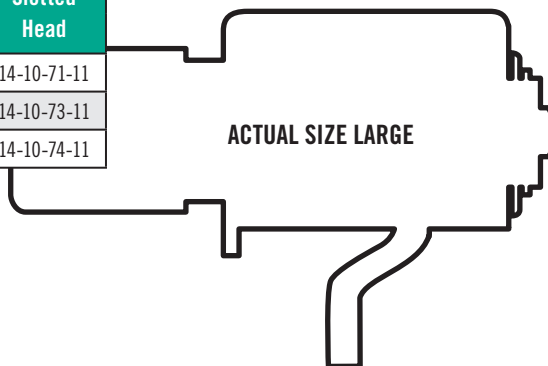
Material	G Grip Range		Knurled Head	Slotted Head
	Minimum	Maximum		
Steel	3.2 (.12)	9.5 (.37)	44-1-1-0	44-1-16-0
	9.5 (.37)	19.1 (.75)	44-1-2-0	44-1-17-0
	19.1 (.75)	28.6 (1.12)	44-1-3-0	44-1-18-0
Stainless steel	3.2 (.12)	9.5 (.37)	44-1-1-24	44-1-16-24
	9.5 (.37)	19.1 (.75)	44-1-2-24	44-1-17-24
	19.1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



Dimensions in millimeters (inch) unless otherwise stated

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

www.southco.com/43
www.southco.com/44
www.southco.com/14



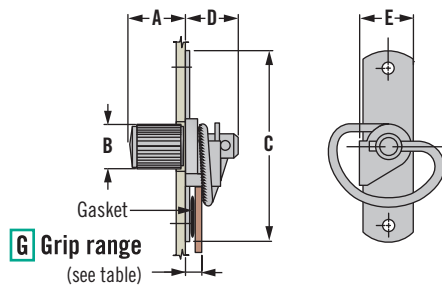


57 Compression Latch

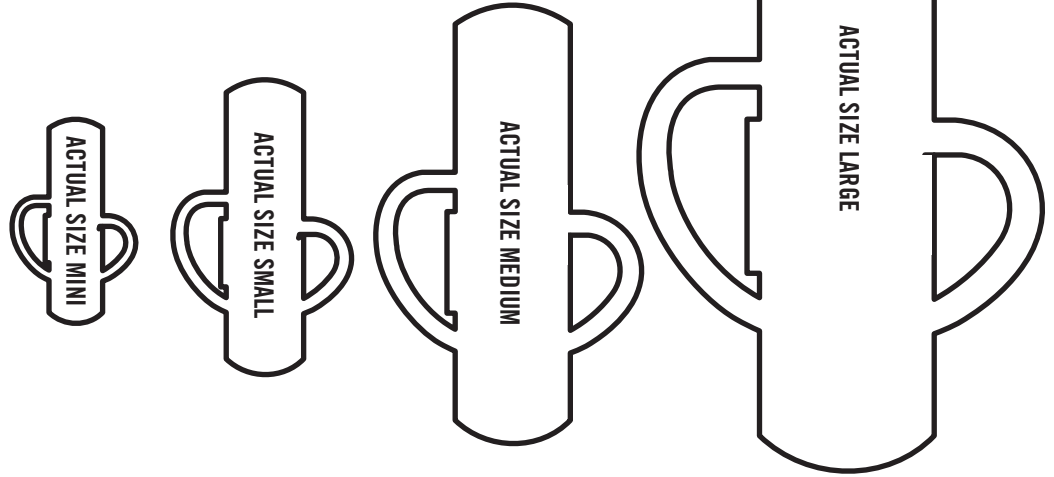
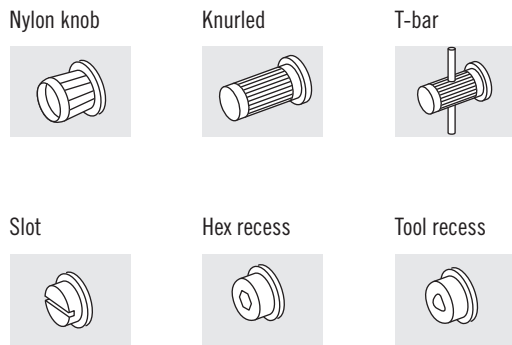
Self-adjusting · Spring latch series

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

Material and Finish
Steel, zinc plated or stainless steel



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)



Dimensions in millimeters (inch) unless otherwise stated

57 Series

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

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

www.southco.com/57



Request Info

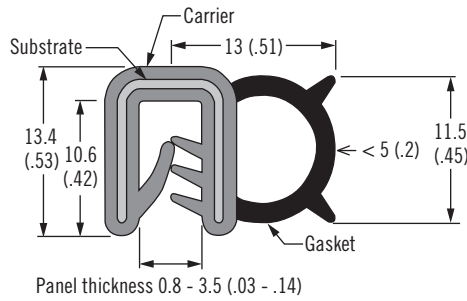
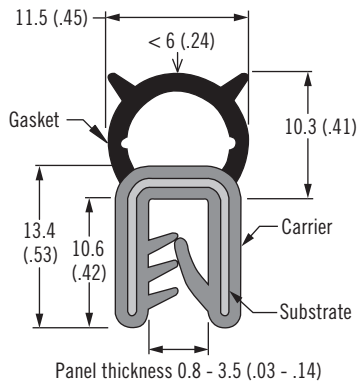


1-800-453-1692

www.aboveboardelectronics.com

GA Gaskets

Self-gripping



- Broad application range
- Multiple industry standard profiles
- Clip-on or groove mount

Material and Finish

Gasket: EPDM Sponge, black
 Carrier: 70 Durometer EPDM, black
 Substrate: Steel wire

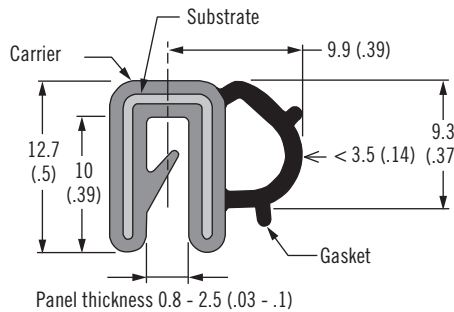
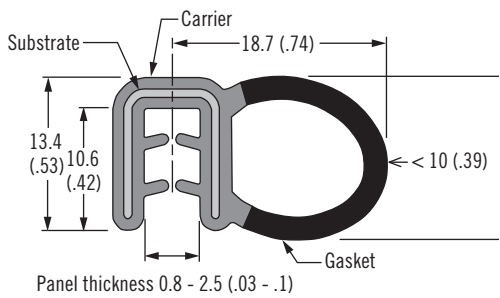
Notes

Maximum recommended compression: see "<" symbol in drawings

Other profiles available

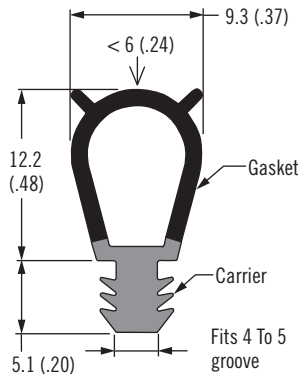
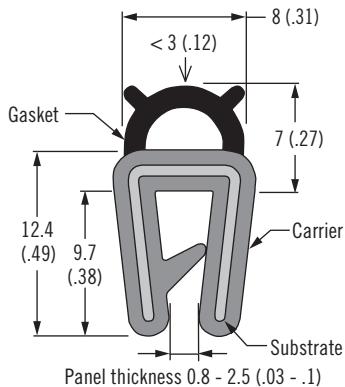
Part Number	Coil Length Meters (Feet)
GA-007-82-M500	50 (164)

Part Number	Coil Length Meters (Feet)
GA-202-82-M500	50 (164)



Part Number	Coil Length Meters (Feet)
GA-204-82-M500	50 (164)

Part Number	Coil Length Meters (Feet)
GA-206-82-M500	50 (164)



Dimensions in millimeters (inch) unless otherwise stated

Part Number	Coil Length Meters (Feet)
GA-209-82-M500	50 (164)

Part Number	Coil Length Meters (Feet)
GA-704-81-M500	50 (164)