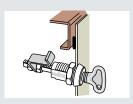
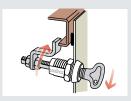


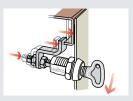
Overview



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 NEMA4 / 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:



Chrome plated



Black powder coated



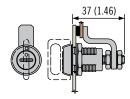
Silver powder coated

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

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

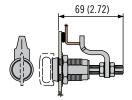
A series of basic housing styles of the VISE ACTION® compression latch have been developed to meet specific door configuration and mounting requirements - for depth, thickness, strength, grip dimension, and surface protrusion.

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



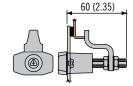
Small

 Optimum compression for use in confined space applications



Large

- Largest choice of head styles
- Max. 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





- 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

Small single hole door preparation



recess



4(.16)

Hex recess



Knob

style



Tubular key operated style

3-Hole body door preparation

Triangle

T-handle

Tubular key key-locking non-locking



Double bit

SOUTHCO®



Square

T-handle



Hex recess





3 (.11)

Double bit

8 (.32)

Hex recess

Tubular key

T-handle

locking



Large single hole body door preparation

7 (.28)

Triangle

8 (.32)

Square

5 (.19)

Double bit

7 (.28)

Square







Railway

standard

8 (.32)

Triangle







non-locking

recess





216



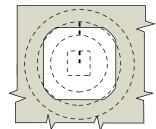
Wing knob locking





Knob

style



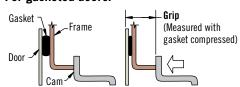
ACTUAL SIZE

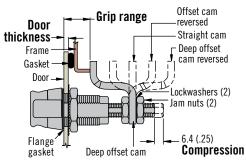
ACTUAL SIZE

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:





ACTUAL SIZE

Door Grip thickness Frame Flange gasket Frame gasket Cam Door Gasket seal Screw 6.4 (.25) Compression

Adjustable cam designs

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

Fixed cam designs

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





Large · Machined stainless steel housing · Tool operated · Adjustable grip

- Consistent pre-set compression
- Easy grip adjustment
- Premium finish and corrosion resistance

Material and Finish

Stainless steel (304 and 316 machined)

Performance Details

Max. static load: 600 N (136 lbf)

Sealing Notes

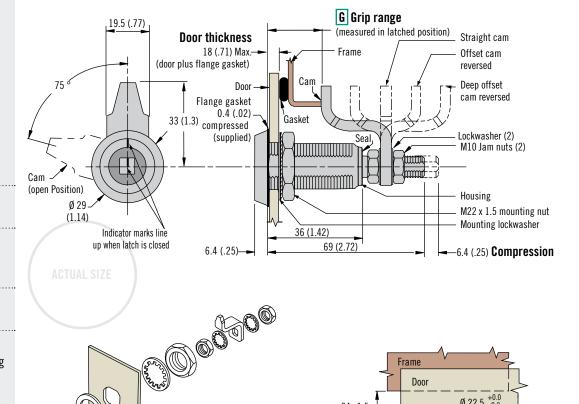
NEMA 4 and IP65 achieved using gasket supplied

Keys and Accessories

See pages 58 - 61

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).



H Head Styles





7 (.28)

Triangle



7 (.28)

Square



SOUTHCO®

Tubular key



8(.32)

Hex recess



Slotted

recess

 24 ± 1.5

Optional: Round hole installation. with spur washer

 $(.94 \pm .06)$

8 (.32)

Square

Door



Railway

standard

Ø 22.5 ^{+0.0}_{-0.2}

 $(.89^{+.0}_{-.01})$

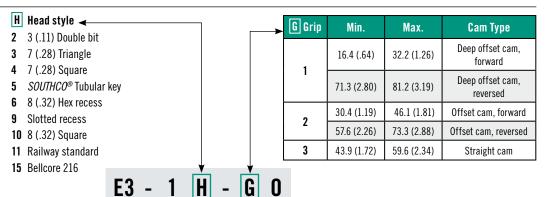
19.10 +0.2 $(.75^{+.01}_{-.0})$



Bellcore

216

3 (.11) Double bit **Part Number Selection**

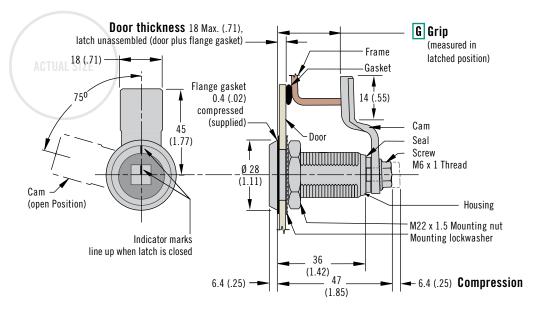


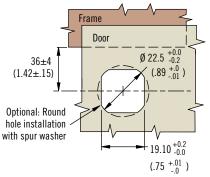


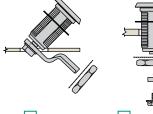


Large · Machined stainless steel housing · Tool operated · Fixed grip













- Consistent pre-set compression
- Premium finish and corrosion resistance
- Reduced internal protrusion







Stainless steel (304 and 316 machined)

Performance Details

Max. static load: 450 N (102 lbf)

Sealing Notes

NEMA 4 and IP65 achieved using gasket supplied

Keys and Accessories

See pages 58 - 61

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)

Part Number Selection

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

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

	E3 -	A	H	-	G	0	
A Assem 10 Assem 12 Unasse							

	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		40 (1.57)	10		50 (1.97)	15	
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	7 (.28)	44 (1.73)	12	7 (.28)	54 (2.13)	17	7 (.28)
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	







Large · Metal injection molding stainless steel housing · Adjustable grip

- Consistent pre-set compression
- Easy grip adjustment
- Tool or hand operated

Material and Finish

Stainless steel 316 and 304

Performance Details

Max. static load: 556 N (125 lbf)

Sealing Notes

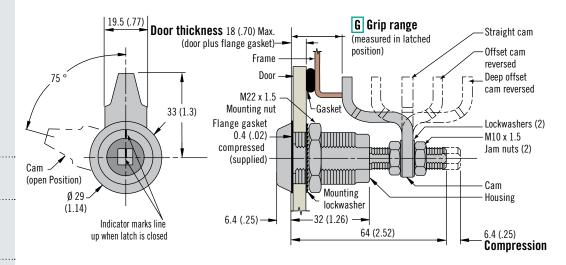
NEMA 4 and IP65 achieved using gasket supplied

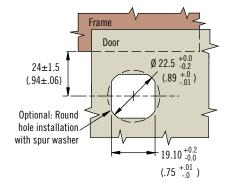
Installation Notes

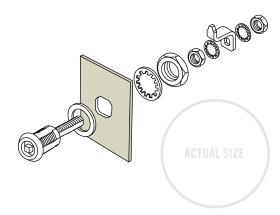
Caution: Position cam so latching function can be achieved comfortably by hand.
Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf).

Keys and Accessories

See pages 58 - 61







H Head Styles



Tubular key



Hex recess





recess



Square



standard



Triangle

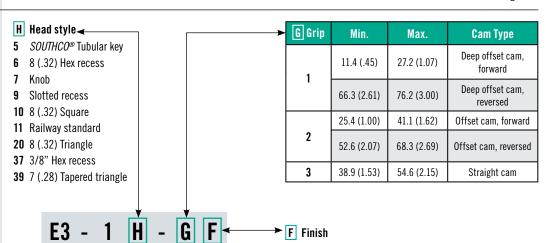


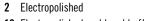
recess



7 (.28) Tapered triangle

Part Number Selection





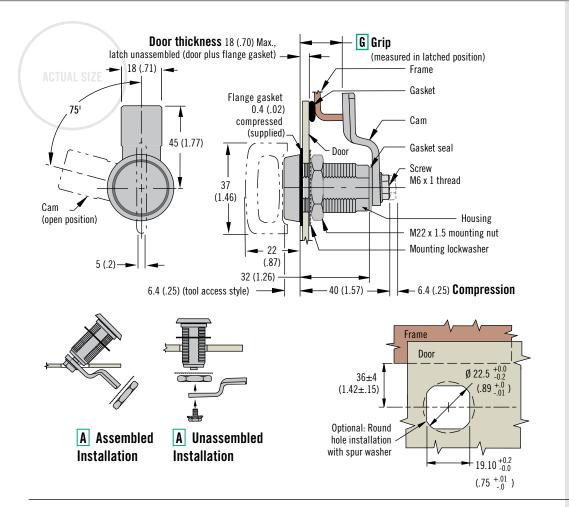
12 Electropolished and hand buffed (bright)





Large · Metal injection molding stainless steel housing · Fixed grip





- Consistent pre-set compression
- Tool or hand operated
- Reduced internal protrusion





Material and Finish

Stainless steel 316 and 304

Performance Details

Max. static load: 445 N (100 lbf)

Sealing Notes

NEMA 4 / 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 in 10 N·m (88 in·lbf)

Keys and Accessories

See pages 58 - 61

Part Number Selection

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

5 SC	ad style ← DUTHCO® Tubular key (.32) Hex recess					F 2 12	Finish Electropolished Electropolished and
7 Kn 9 Sld 10 8 11 Ra 20 8 37 3/	ob otted recess (.32) Square ailway standard (.32) triangle /8" Hex recess	A Assembly 10 Assemble 12 Unassemb	i	A H	- G F	_	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		45 (1.77)	15	
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		39 (1.53)	12	7 (.28)	49 (1.93)	17	7 (.28)
21 (.83)	03	2 (.08)	31 (1.22)	08	7 (.28)	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	







Large · Aluminum · Tool Operated · Fixed grip

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

Material and Finish

Aluminum, Anodized or Powder Coated.

Hardware: Stainless Steel

Performance Details

Max. static load: 450 N (102 lbf) Proven to meet European Fire Test Standard EN45545-2

Sealing Notes

NEMA 4 and IP65 achieved using gasket supplied

Keys and Accessories

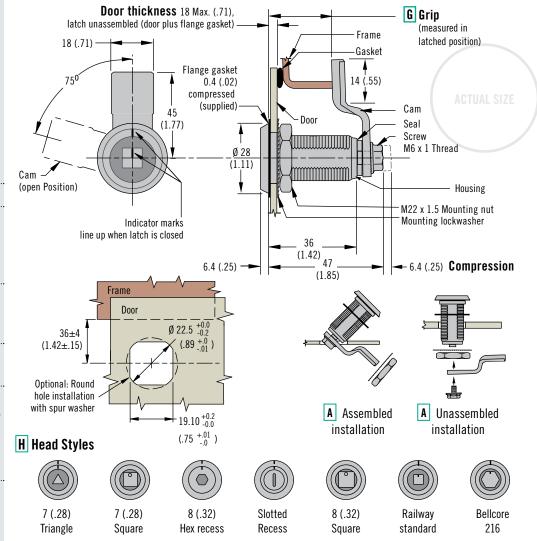
See www.southco.com

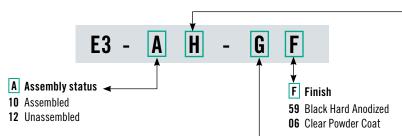
Installation Notes

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)

Part Number Selection

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





H Head style

7 (.28) Triangle

7 (.28) Square

8 (.32) Hex recess

Slotted Recess

8 (.32) Square

Railway standard

15 Bellcore 216

					լնյն	ih ianie	_				
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		40 (1.57)	10		50 (1.97)	15	
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	7 (.28)	44 (1.73)	12	7 (.28)	54 (2.13)	17	7 (.28)
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	

Dimensions in millimeters (inch) unless otherwise stated









Small \cdot Metal injection molding stainless steel housing \cdot Adjustable grip



- Consistent pre-set compression
- Easy grip adjustment
- Tool or hand operated
- Reduced dimensions

Material and Finish

Stainless steel 316 and 304

Performance Details

Max. static load: 356 N (80 lbf)

Sealing Notes

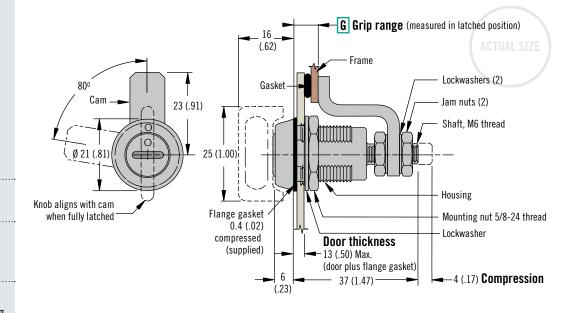
NEMA 4 / IP65 achieved using gasket supplied

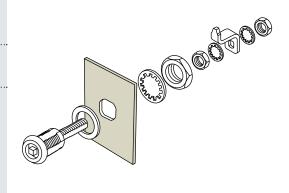
Installation Notes

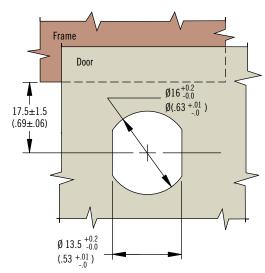
Caution: Position cam so latching function can be achieved comfortably by hand.

Accessories

See pages 58 - 61







H Head Styles



SOUTHCO® Tubular key



4 (.16)

Hex recess

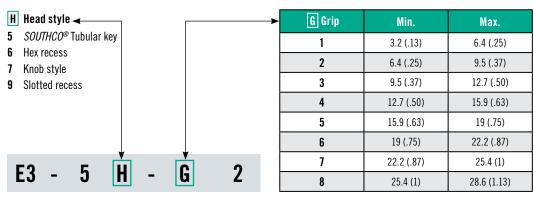


Knob style



Slotted recess

Part Number Selection

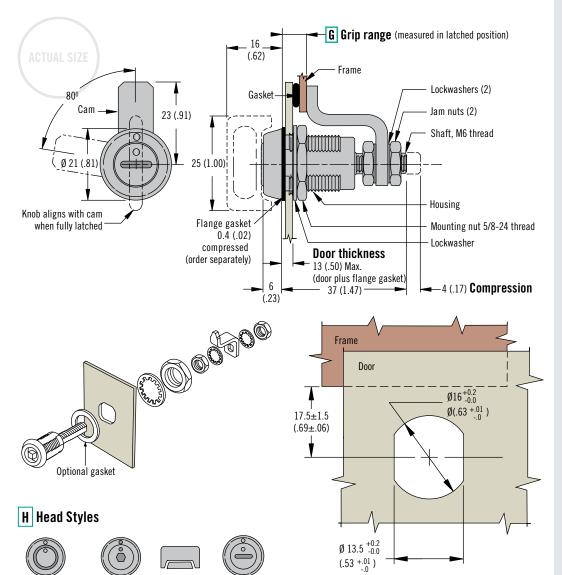






Small \cdot Zinc and plated steel \cdot Adjustable grip





- Consistent pre-set compression
- Easy grip adjustment
- Tool or hand operated
- Reduced dimensions

Material and Finish

Zinc alloy, powder coated and steel, zinc plated

Performance Details

Max. static load: 330 N (75 lbf)

Sealing Notes

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

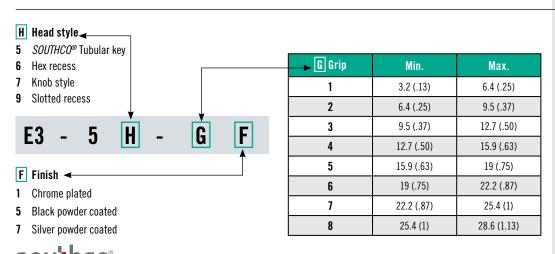
Installation Notes

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

Accessories

See pages 58 - 61

Part Number Selection







4 (.16)

Hex recess

Knob style

Slotted

recess

SOUTHCO®

Tubular key

Dimensions in millimeters (inch) unless otherwise stated



Large \cdot Zinc and plated steel \cdot Tool operated \cdot Adjustable grip



- Easy grip adjustment
- Tool operated for security

Material and Finish

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

Performance Details

Max. static load: 450 N (100 lbf)

Sealing Notes

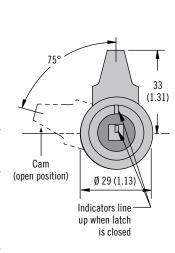
NEMA 4 / IP65 sealing is achieved by using optional flange gasket. Flange gasket part number: E5-17

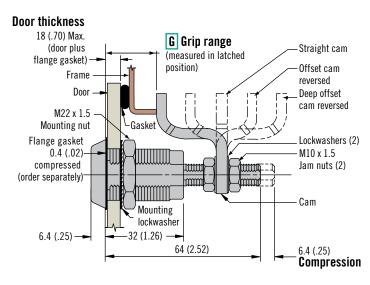
Installation Notes

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).

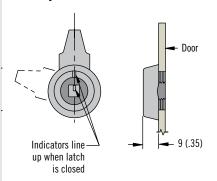
Keys and Accessories

See pages 58 - 61

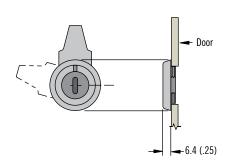


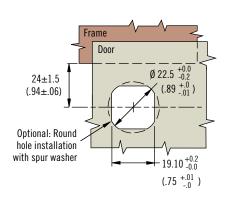


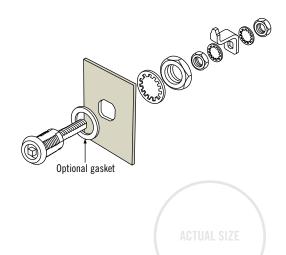
Railway Standard - Bellcore 216



All Other Head Styles (slotted recess shown)







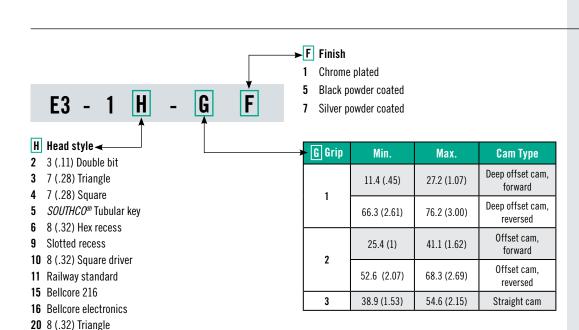




H Head Styles (other head styles available)



Part Number Selection





48 5 (.19) Double bit



Large · Zinc and plated steel · Hand operated · Adjustable grip





- Easy grip adjustment
- Hand operated

Material and Finish

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

Performance Details

Max. static load: 450 N (100 lbf)

Sealing Notes

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

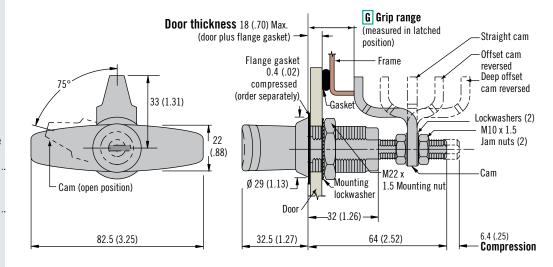
Installation Notes

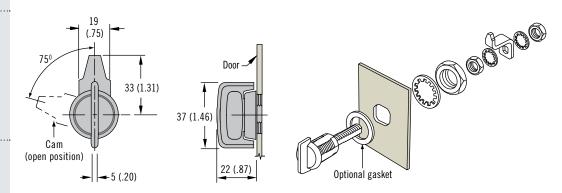
Caution: Position cam so latching function can be achieved comfortably by hand.

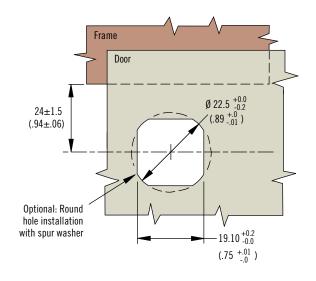
Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf).

Keys and Accessories

Key CH751 page 58 Washers and sleeve nut see page 60















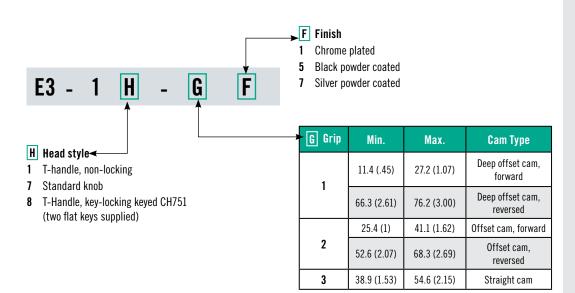




T-handle, key-locking

T-handle, non-locking

ACTUAL SIZE









Large · Zinc and plated steel · Tool operated · Fixed grip



- Consistent pre-set compression
- Quick install
- Reduced internal protrusion

Material and Finish

Zinc alloy, powder coated or chrome plated and steel plated

Performance Details

Max. static load: 300 N (67 lbf)

Sealing Notes

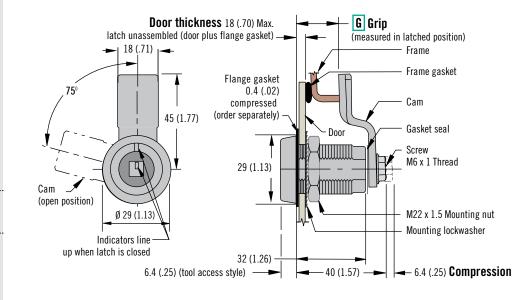
NEMA 4 / IP65 sealing is achieved by using optional flange gasket. Flange gasket part number: E5-17

Installation Notes

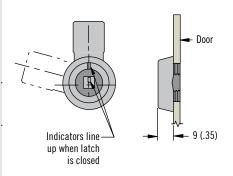
Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for the mounting screw in 10 N·m (88 in·lbf)

Keys and Accessories

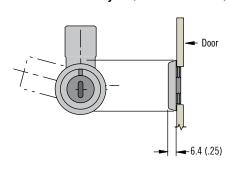
See pages 58 - 61

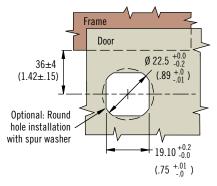


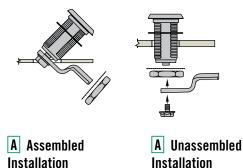
Railway Standard - Bellcore 216



All Other Head Styles (slotted recess shown)













H Head Styles













3 (.11) Double bit

7 (.28) Triangle

7 (.28) Square

SOUTHCO® Tubular key

8 (.32) Hex recess

Slotted recess













8 (.32) Square driver

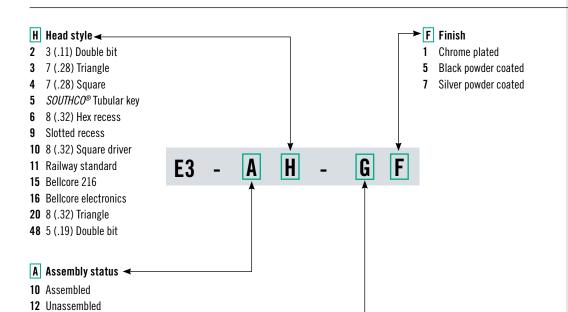
Railway standard

Bellcore 216

Bellcore electronics

8 (.32) Triangle

5 (.19) Double bit



	Y										
	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		45 (1.77)	15	
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		39 (1.53)	12	7 (.28)	49 (1.93)	17	7 (.28)
21 (.83)	03	2 (.08)	31 (1.22)	08	7 (.28)	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	







Large · Zinc and plated steel · Hand operated · Fixed grip



 Reduced internal protrusion

Material and Finish

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

Performance Details

Max. static load: 300 N (67 lbf)

Sealing Notes

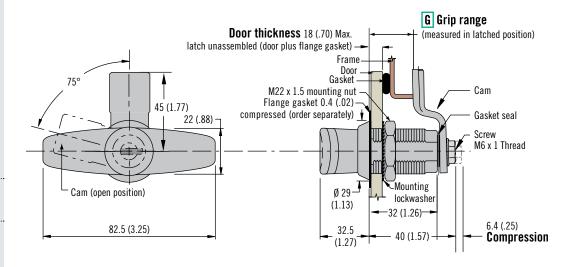
NEMA 4 / IP65 sealing is achieved by using optional flange gasket. Flange gasket part number: E5-17

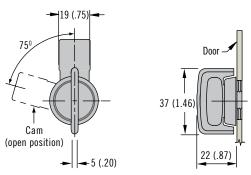
Installation Notes

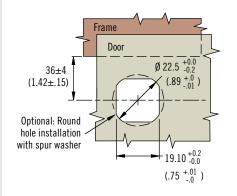
Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for the mounting screw in 10 N·m (88 in·lbf)

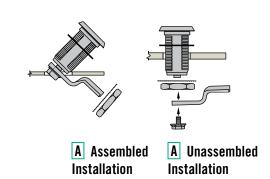
Keys and Accessories

Key CH751 page 58 Washers and sleeve nut see page 60













H Head Styles







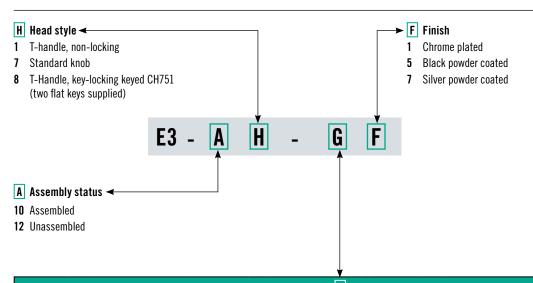
Standard knob

T-handle, key-locking

T-handle, non-locking



ACTUAL SIZE



	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		45 (1.77)	15	
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		39 (1.53)	12	7 (.28)	49 (1.93)	17	7 (.28)
21 (.83)	03	2 (.08)	31 (1.22)	08	7 (.28)	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	







Large · Zinc and plated steel · Wing knob · Adjustable grip



- Multiple key codes

Material and Finish

Zinc alloy, powder coated and steel, zinc plated

Performance Details

Max. static load: 450 N (100 lbf)

Sealing Notes

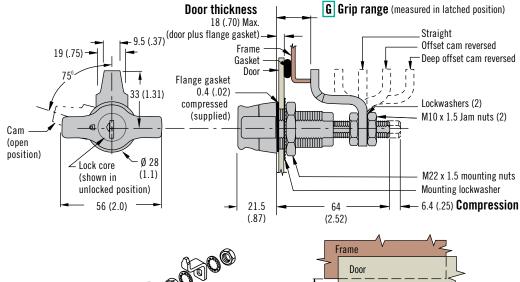
NEMA 4 / IP65 sealing is achieved by using gasket supplied.

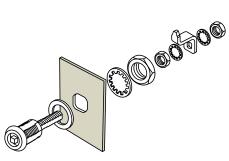
Installation Notes

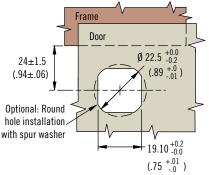
Caution: Position cam so latching function can be achieved comfortably by hand. Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf).

Keys and Accessories

Key CH751 page 58 Key R001 page 58 Washers and sleeve nut see page 60







L Lock Styles



non-locking





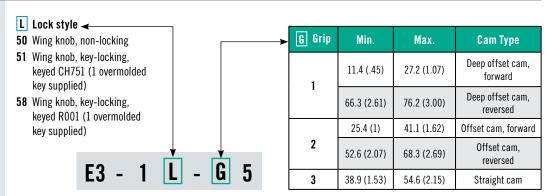
key-locking,

keyed CH751



Wing knob, key-locking, shuttered. keyed R001

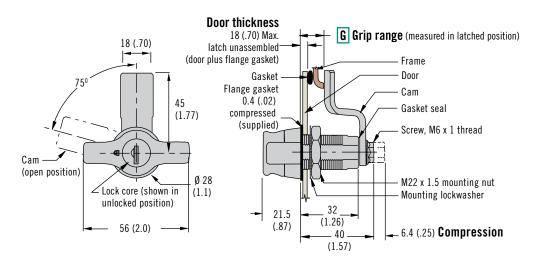


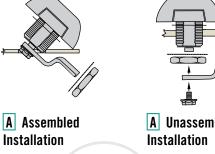


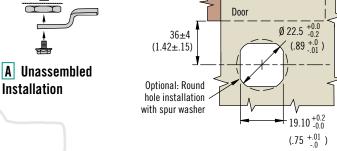


Large · Zinc and plated steel · Wing knob · Fixed grip

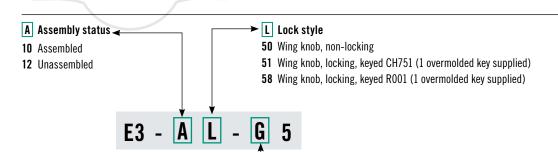








Frame



- Consistent pre-set compression
- Minimal internal protrusion
- Multiple key codes

Material and Finish

Zinc alloy, powder coated and steel, zinc plated

Performance Details

Max. static load: 300 N (67 lbf)

Sealing Notes

NEMA 4 / IP65 sealing is achieved by 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

Key CH751 page 58 Key R001 page 58 Washers and sleeve nut see page 60

	□ 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		45 (1.77)	15	
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		39 (1.53)	12	7 (.28)	49 (1.93)	17	7 (.28)
21 (.83)	03	2 (.08)	31 (1.22)	08	7 (.28)	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	







Large \cdot Zinc and plated steel \cdot Tool & hand operated Three hole mount \cdot Adjustable grip

- Consistent pre-set compression
- Easy grip adjustment

Material and Finish

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

Performance Details

Max. static load: 450 N (100 lbf)

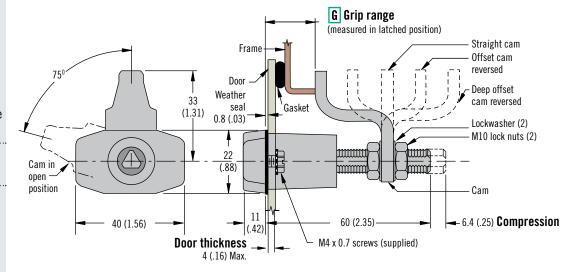
Installation Notes

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

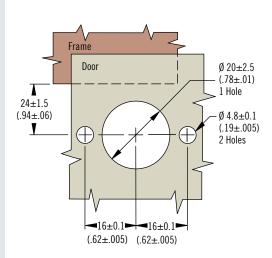
Door thickness + 6 (.24)

Keys and Accessories

Pages 58 - 61





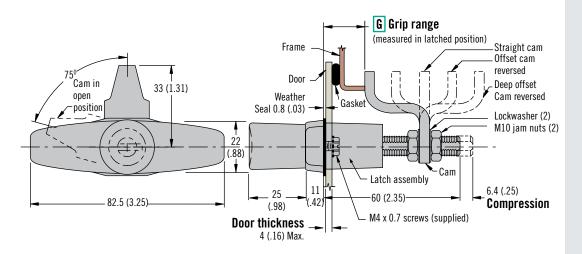


H Head Styles



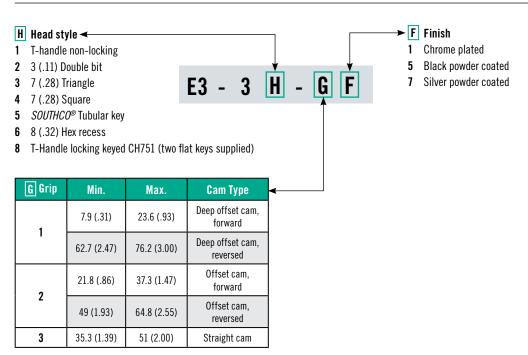








ACTUAL SIZE









E3 VISE ACTION® Compression Latch Accessories Keys

Material and Finish

Steel, zinc plated

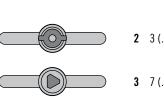
Part Number

Steel tubular key (order separately) Small E3 latches: E3-26-819-15 Large E3 latches: E3-5-15

Keys - Steel

50 (1.97) For latches with SOUTHCO® Tubular key head styles 39 (1.54) Ø 11.5 (0.45)

Key Styles



2 3 (.11) Double bit



3 7 (.28) Triangle



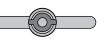
4 7 (.28) Square



7 8 (.32) Triangle



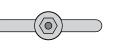
8 (.32) Square recess



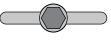
9 5 (.19) Double bit



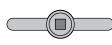
10 8 (.32) Square male



11 Bellcore electronics



12 Bellcore 216



24 6 (.24) Square recess

Material and Finish

Zinc alloy or nylon

Keys - Zinc or Nylon 55 (2.2) 56 (2.2) H Head style ◀ 2 3 (.11) Double bit **3** 7 (.28) Triangle 4 7 (.28) Square 8 (.32) Triangle 8 (.32) Square recess 5 (.19) Double bit (nylon only) F Finish **10** 8 (.32) Square male Plated zinc (zinc only) Natural zinc 11 Bellcore electronics Nylon black **12** Bellcore 216 (zinc only) 24 6(.24) Square recess (nylon only) F H **E3**

Part Number

Overmolded key CH751: Single: PK-10-10-05 Pair: PK-10-01-05

Overmolded key R001: Single: PK-10-10-05-KR001 Pair: PK-10-01-05-KR001

Flat key Pair: PK-10-01

Overmolded Keys

Key CH751



Key R001



Flat Keys

Key CH751



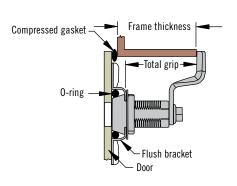




E3 VISE ACTION® Compression Latch Accessories

Fixed bracket for flush mounting





Α	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 Pailway standard or Pollcore 216 style only						

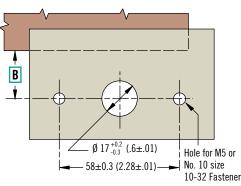
For use with Railway standard or Bellcore 216 style only

1.25 (.05) 5.4 (.21) Ø 43 (1.69)72 (2.84)58 (2.28) 19 (.75) Ø 5.4 (.21)

To calculate the **Total Grip**, use the following formula: Frame Thickness + Compressed Gasket - A Use this **Total Grip** with the appropriate E3 tables in the SOUTHCO® Handbook to determine cam type.

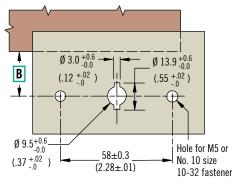
Door preparation

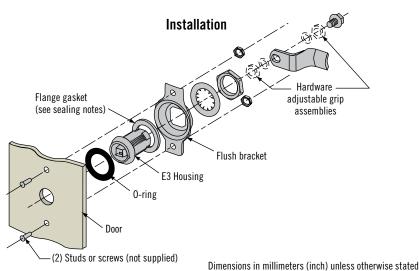
For **B** dimensions: Large adjustable grip 24±1.5 (.94±.06) Fixed grip 36 ± 4 (1.42 ± .15)



Double bit (key retained style)

Key can only be removed in the latch closed position.





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 40 -55) and sealing the mounting screw threads.

Notes

For use with large single hole mount tool operated E3 VISE ACTION® compression latches, see pages 40 - 43, 46 - 47 and 50 - 51





E3 VISE ACTION® Compression Latch Accessories

Ø 28.2

(1.11)

(.89)

Sealing & spur washers · Sealing covers · Sleeve nut

Material and Finish

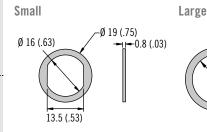
Sealing washers: Neoprene, natural Spur washer: Steel, zinc plated Sealing cover: Thermoplastic elastomer, black

Notes

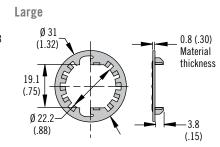
Spur washer provides for round hole installation in wood and similar materials of low density

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

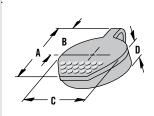
Sealing Washers

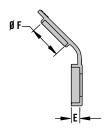


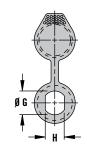
Spur Washer

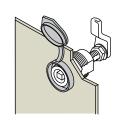


Sealing Cover









Latch Ins	stallation Hole Size	Dimensions							
Ø G	Distance across flat H	A	В	ØC	D	E	ØF		
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

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

Material and Finish

Zinc alloy

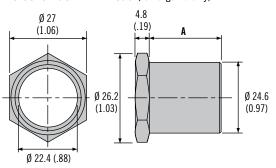
Installation Notes

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 large E3 only)



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



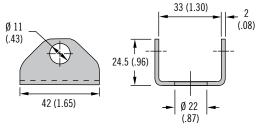


E3 VISE ACTION® Compression Latch Accessories

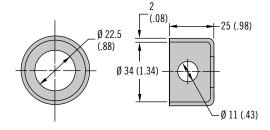
Padlock brackets · Finger pulls

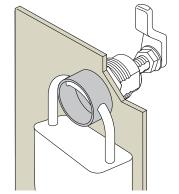






Padlock Bracket (Round)





Material and Finish

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

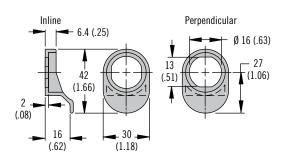
Sealing Notes

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

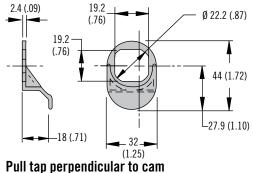
Notes

Padlock bracket: For large size single hole mount tool operated only
Only unassembled styles can be used with round padlock bracket

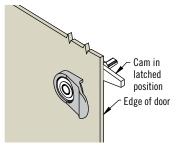
Pull Tab (Small)

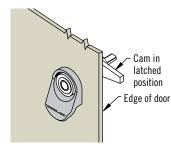


Pull Tab (Large)



Pull tab in-line with cam





Туре	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 small - In-line	E3-27-61	Add 2 (.08) to door thickness		
Pull tab small - Perpendicular	E3-27-62	Add 2 (.08) to door thickness		
Pull tab large	E3-27-1	Add 2.4 (.09) to door thickness		



Part Number

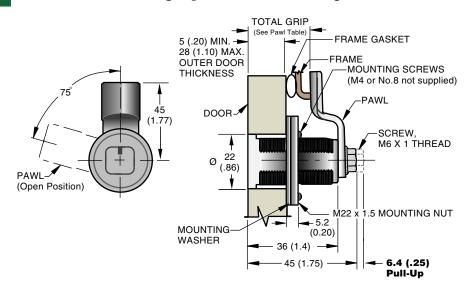
See table



Southco® Compression Latches

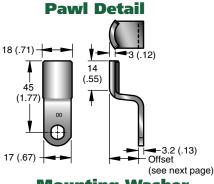
Vise Action Series, Flush Design

- Single-hole mount, large size
- Latch provides completely flush outer surface
- Designed for use in thicker panels such as wood
- Seven tool- or key-operated access styles

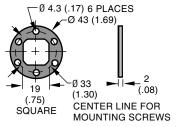


To determine the proper part number:

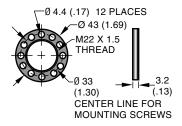
- 1. Choose a head style and finish (see table).
- 2. Determine the total grip by adding the following items together:
 - · Outer door thickness
 - Compressed Frame Gasket
 - · Frame thickness
- 3. Find your total grip in the pawl table. If your grip is between two choices, use the smaller one.
- 4. Use the 2 digit pawl type code that corresponds to your grip and outer door thickness to complete your latch assembly part number.



Mounting Washer



Mounting Nut



Kev (Order Separately)

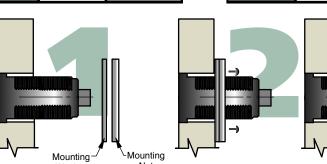


	HEAD STYLE	8 mm Hex Recess	7 mm Triangle	7 mm Square	8 mm Square Driver	10 mm Hex	Railway Standard	8 mm Triangle
	Bright Chrome		E3-143- XX 1●	E3-144- XX 1●	E3-1410- XX 1●	E3-1418- XX 1●	E3-1411- XX 1●	E3-1420- XX 1●
	Black Powder Coated	E3-146- XX 5	E3-143- XX 5●	E3-144- XX 5●	E3-1410- XX 5●	E3-1418- XX 5●	E3-1411- XX 5•	E3-1420- XX 5●
Number	Satin Silver Polyester Powder Coated	E3-146- XX 7	E3-143- XX 7●	E3-144- XX 7●	E3-1410- XX 7●	E3-1418- XX 7●	E3-1411- XX 7●	E3-1420- XX 7●
Part	Keys		E3- 3 -1 ●	E3- 4- 1 ●	E3- 8 -1 ●	10 mm (.375) Hex Recess (Not available from Southco)	RIC Standard (European Railway Standard) Not available from Southco	E3- 7 -1 ●

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-**XX**1-13.

PAWL TYPE NUMBERS					RS
Pawl Type	TOTAL GRIP	Pawl Offset		Pawl Type	TC G
XX=00 •	19 (.75)	18 (.71)		XX=10 •	(1
XX=01 •	21 (.83)	16 (.63)		XX=11 •	(1
XX=02 ●	23 (.91)	14 (.55)		XX=12 ●	(-
XX=03 •	25 (.98)	12 (.47)		XX=13 •	(-
XX=04 •	27 (1.06)	10		XX=14	(1
XX=05 •	29 (1.14)	8 (.31)		XX=15	(1
XX=06 •	31 (1.22)	6 (.24)		XX=16	(2
XX=07 ●	33 (1.30)	4 (.16) -		XX=17	(2
XX=08 •	35 (1.38)	2 (.08) -		XX=18	(2
XX=09 •	37 (1.46)	0 (0)		XX=19	(2

OMDE		
Pawl Type	TOTAL GRIP	Pawl Offset
XX=10 •	39 (1.53)	(.08)
XX=11 •	41 (1.61)	(.16)
XX=12 •	43 (1.69)	(.24)
XX=13 •	45 (1.77)	8 (.31)
XX=14	47 (1.85)	(.39)
XX=15	49 (1.93)	(.47)
XX=16	51 (2.01)	(.55)
XX=17	53 (2.09)	16 (.63)
XX=18	55 (2.17)	(.71)
XX=19	57 (2.24)	(.79)
		m





Material and Finish

HOUSING and CAP: Die-cast zinc, bright chrome plated or powder coated, see table. RETAINER and SPRING: 302 Stainless steel, natural. O-RING: Buna-N rubber, natural. CAM and SLEEVE: 1075 Case hardened steel, zinc immersion coating. SHAFT and SCREW: Low carbon steel, zinc plate, chromate plus sealer. PIN: 1008 Steel, zinc plated plus chromate dip. MOUNTING WASHER, MOUNTING NUT and PAWL: 1010 steel, zinc plate, chromate plus sealer.

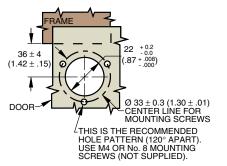
Product Strength Guidelines

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

Maximum static load: 300 N (79 lbs.) Average ultimate load: 700 N (157 lbs.)

These loads apply to latch assemblies only. Retention to the panel is subject to user method of installation and material.

Panel Preparation



Installation

- 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 as shown above.
- 3. Place pawl on latch shaft and tighten pawl mounting screw while holding the pawl with a 17 (.67) wrench.

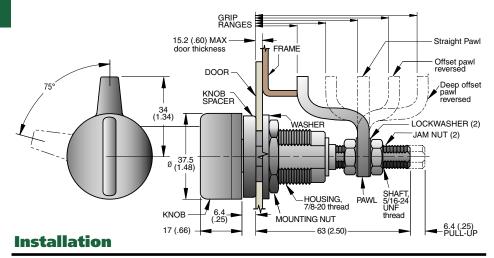
Recommended tightening torque for the Pawl Mounting Screw is 10 N•m (88.5 in-lbs).

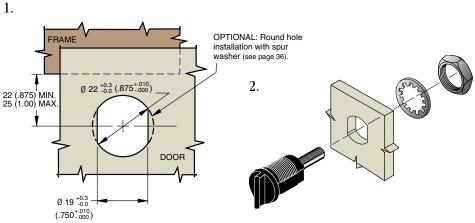
millimeter (inch)
millimeter
(inch)
Dimensions without tolerances are for reference only

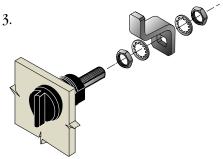
Southco® Compression Latches

Vise Action Series Knob Style

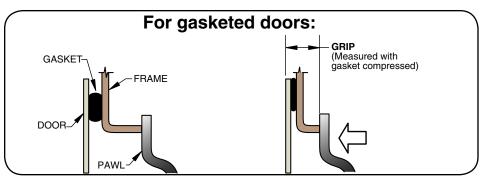
- Single-hole mount, large size
- Wider flange for mounting in non-metallic materials
- Knob provides quick, unrestricted access







4. **To adjust grip:** Measure your grip. Open door. Position pawl on shaft to your grip measurement (with pawl in latched position). Tighten jam nuts hard against lock-washers and pawl using two wrenches.



CAUTION: Set pawl position so that no more than 3.4 N•m (30 in.-lbs.) of torque is required to secure door.



Accessory for this latch. See page 36.

Material and Finish

HOUSING: Die cast zinc, black powder coated.

SPRING: 302 Stainless steel, natural. O-RING: Buna-N rubber, black. PIN: 1008 Steel, zinc plated plus chromate dip.

WASHER and PAWL: 1010 Steel, zinc plate, chromate plus sealer.

CAM and SLEEVE: 1075 Case hardened

steel, zinc immersion coating. SHAFT: Low carbon steel, zinc plate, chromate plus sealer.

JAM NUTS: Steel, zinc plate, chromate plus sealer.

LOCKWASHERS: Spring steel, zinc plate, chromate plus sealer.

MOUNTING NUT: Brass, zinc plate, chromate plus sealer.

KNOB: Glass filled nylon, black. KNOB SPACER: Nylon, black.

RETAINER: Polycarbonate, black.

GRIP I	RANGE	PART NUMBERS	
MIN.	MAX.		
10 (.39)	27 (1.06)	E3-10-50 4-5 0 * ●	
24 (.94)	40 (1.57)	E3-10-50 5-5 0 * ●	
36 (1.42)	52.5 (2.06)	E3-10-50 6-5 0 ‡ ●	
49 (1.94)	65.5 (2.57)	E3-10-50 5-5 0 * ●	
63.5 (2.50)	79 (3.11)	E3-10-50 4-5 0 * ●	

Spur Washer listed on page, 36.

Product Strength Guidelines

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

Maximum static load: 445 N (100 lbs.) Average ultimate load: 890 N (200 lbs.)

millimeter (inch)
millimeter
(inch)
Dimensions without tolerances are for reference only.

^{*} The same pawl (curved forward or reversed) is supplied for both short and long grips.

[‡] For intermediate grip, straight pawl is supplied.