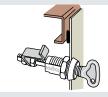
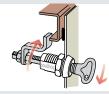


38

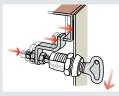
Overview



First 90^o 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:



Black powder coated

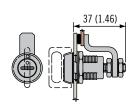
Silver powder coated

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

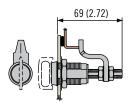
A series of basic housing styles of the *VISE ACTION®* compression latch have been developed to meet specific door configuration and mounting requirements - for depth, thickness, strength, grip dimension, and surface protrusion.

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



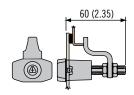
Small

 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

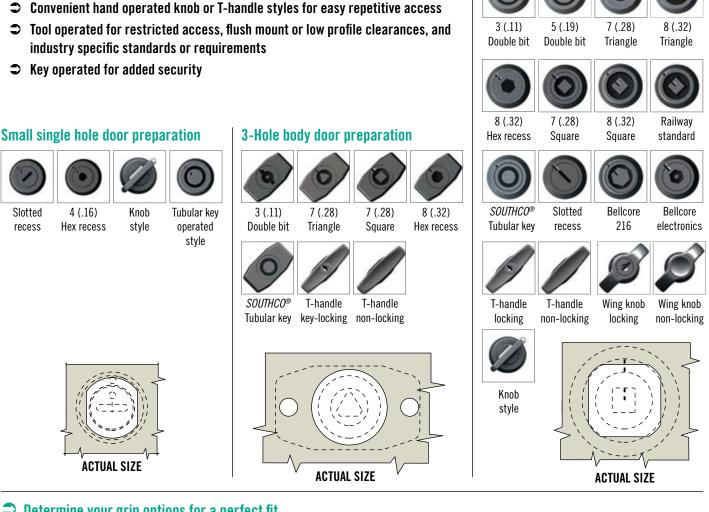


Dimensions in millimeters (inch) unless otherwise stated

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CLIC

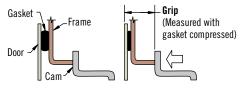


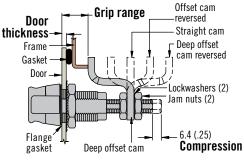
Determine your grip options for a perfect fit

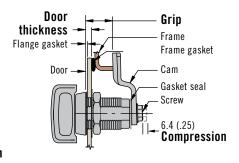
Grip dimension is an important consideration in compression latch applications involving gaskets for environmental or RFI sealing.

industry requirements

For gasketed doors:







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 •

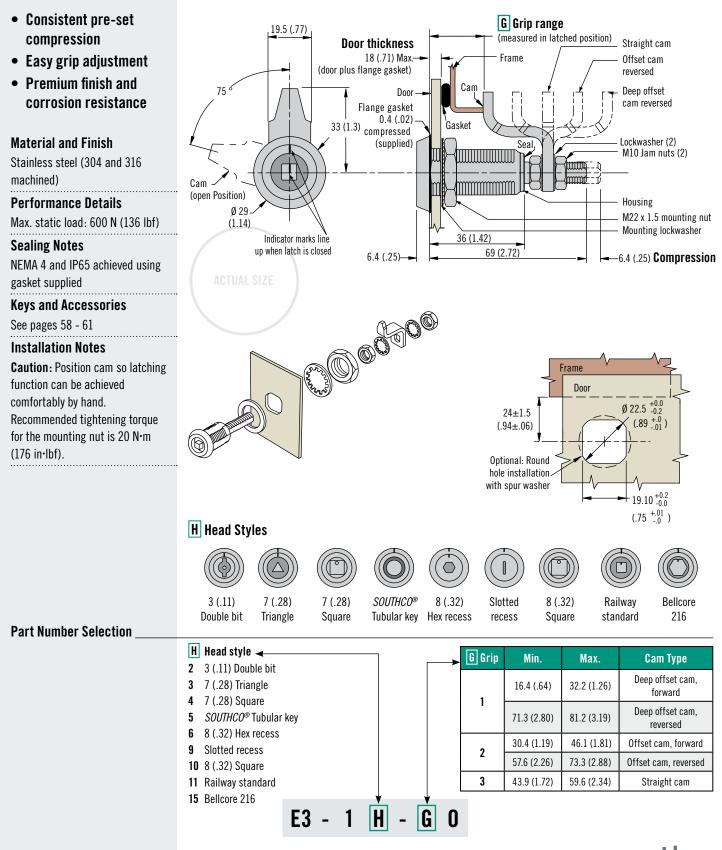
Large single hole body door preparation Choose from a wide range of head styles to fit your application and

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



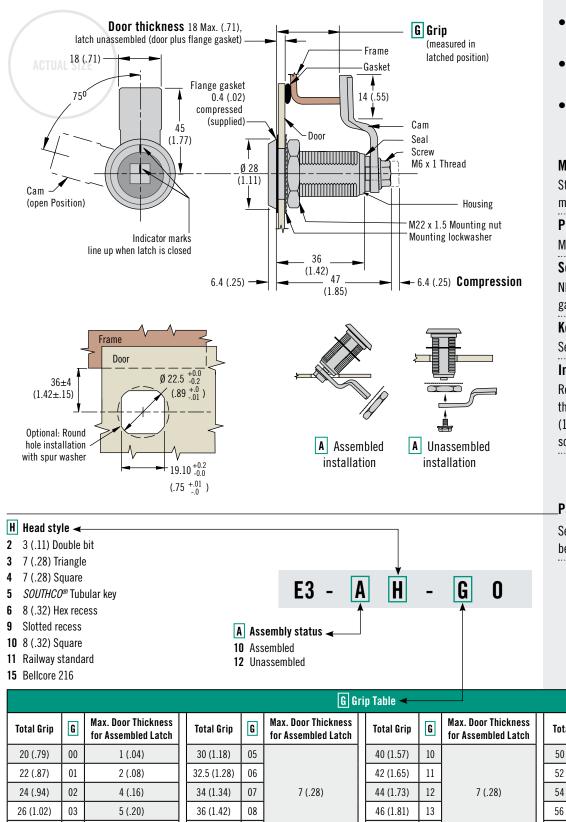


www.southco.com/E3

INFO CLIC

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





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

Material and Finish 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.

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	

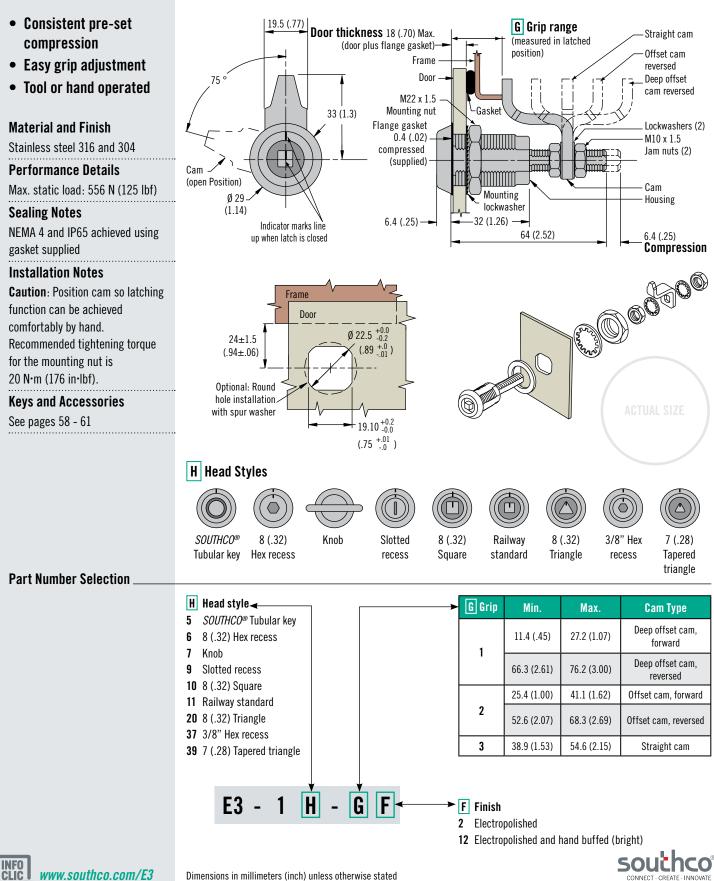




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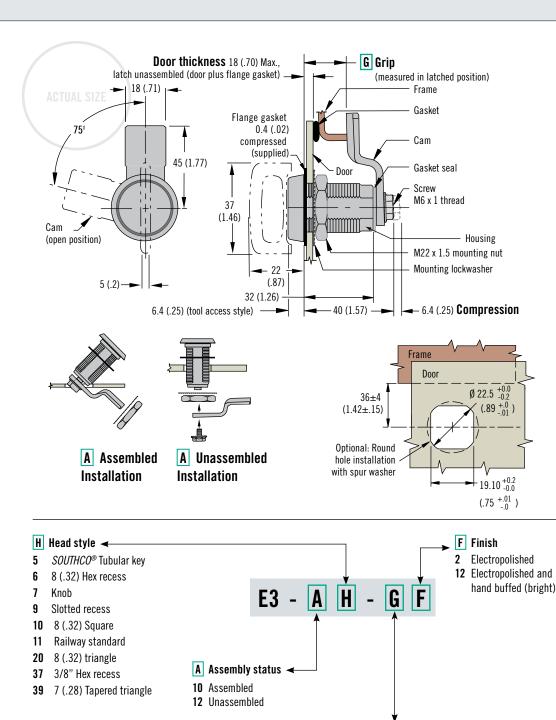
Large · Metal injection molding stainless steel housing · Adjustable grip



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42

E3 *VISE ACTION®* Compression Latch 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.

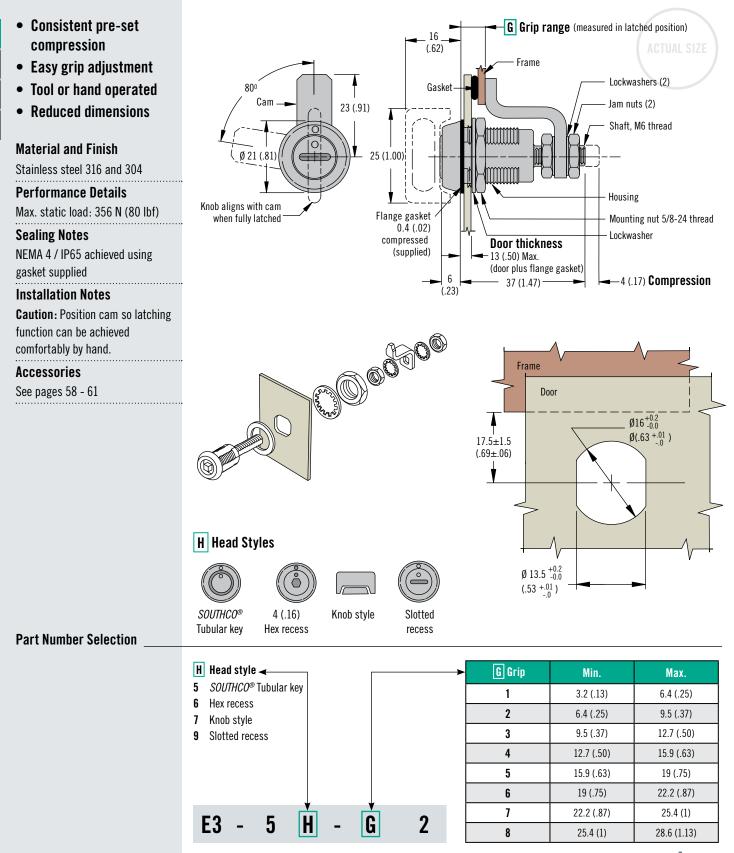
	G Grip Table										
Total Grip	G	Max. Door Thickness for Assembled Latch	Total Grip	G	Max. Door Thickness for Assembled Latch	Total Grip	G	Max. Door Thickness for Assembled Latch	Total Grip	G	Max. Door Thickness for Assembled Latch
15 (.59)	00	Use unassembled	25 (.98)	05	5 (.20)	35 (1.38)	10		45 (1.77)	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	







Small · Metal injection molding stainless steel housing · Adjustable grip



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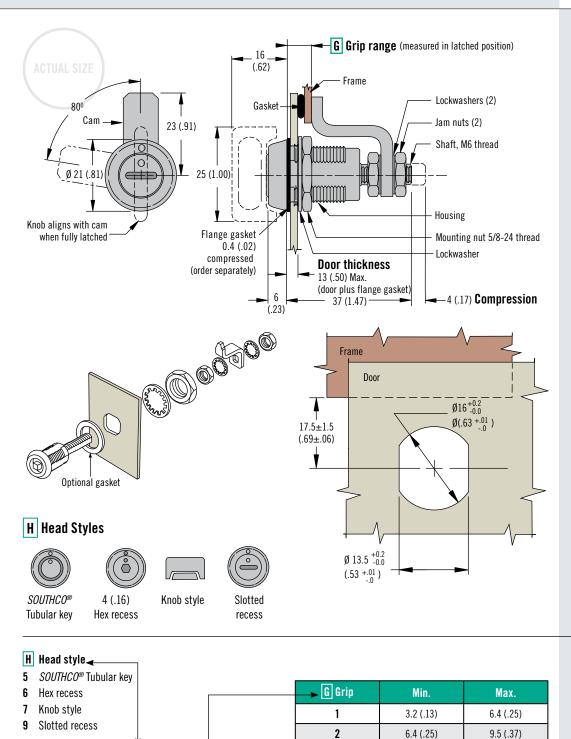
000 Mai

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INFO CLIC

Dimensions in millimeters (inch) unless otherwise stated

Small · Zinc and plated steel · Adjustable grip



3

4

5

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7

8

- 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



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F Finish ৰ

Chrome plated

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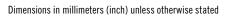
CONNECT · CREATE · INNOVATI

Black powder coated

Silver powder coated

G

F



9.5 (.37)

12.7 (.50)

15.9 (.63)

19 (.75)

22.2 (.87)

25.4 (1)

12.7 (.50)

15.9 (.63)

19 (.75)

22.2 (.87)

25.4 (1)

28.6 (1.13)



E3 *VISE ACTION®* Compression Latch Large · Zinc and plated steel · Tool operated · Adjustable grip

- Consistent pre-set compression
 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

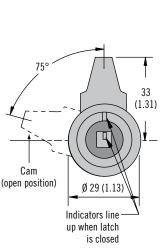
NEMA 4 / IP65 sealing is achieved by using optional flange gasket. Flange gasket part number: E5-17

Installation Notes

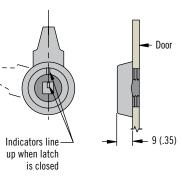
Caution: Position cam so latching function can be achieved comfortably by hand. Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf).

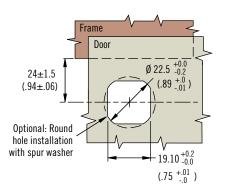
Keys and Accessories

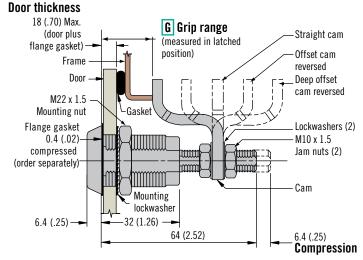
See pages 58 - 61



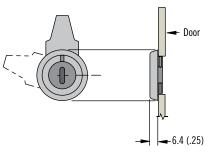
Railway Standard - Bellcore 216

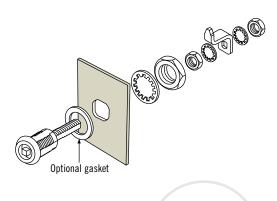






All Other Head Styles (slotted recess shown)





ACTUAL SIZE



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INFO CLIC

H Head Styles (other head styles available)







8 (.32) Square

driver



Railway

standard



Bellcore

216



electronics

SOUTHCO®



8 (.32) Hex

recess

Triangle

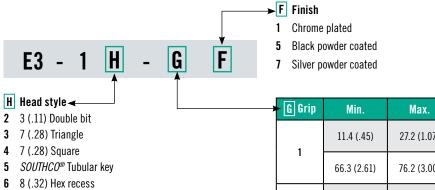


Slotted recess

5 (.19) Double bit



Part Number Selection



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

Cam Type Deep offset cam, 27.2 (1.07) forward Deep offset cam, 76.2 (3.00) reversed Offset cam, 25.4 (1) 41.1 (1.62) forward 2 Offset cam, 52.6 (2.07) 68.3 (2.69) reversed 3 38.9 (1.53) 54.6 (2.15) Straight cam



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E3 *VISE ACTION®* Compression Latch Large · Zinc and plated steel · Hand operated · Adjustable grip

- Consistent pre-set compression
- 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)

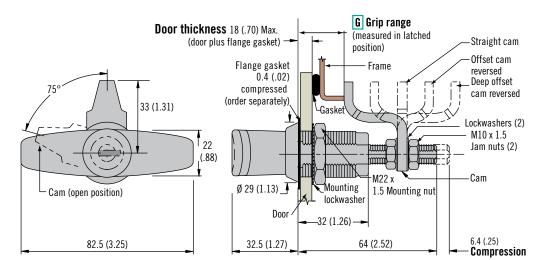
Sealing Notes

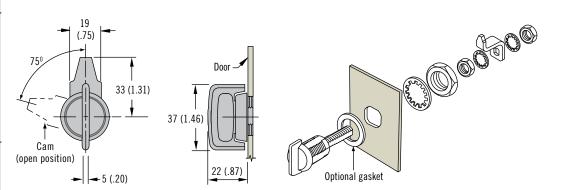
NEMA 4 / IP65 sealing is achieved by using optional flange gasket. Flange gasket part number: E5-17

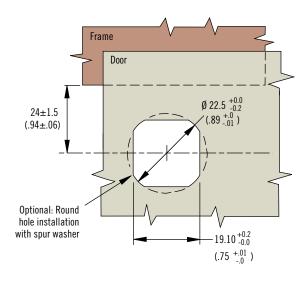
Installation Notes

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











Dimensions in millimeters (inch) unless otherwise stated

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INFO CLIC

H Head Styles





Standard knob

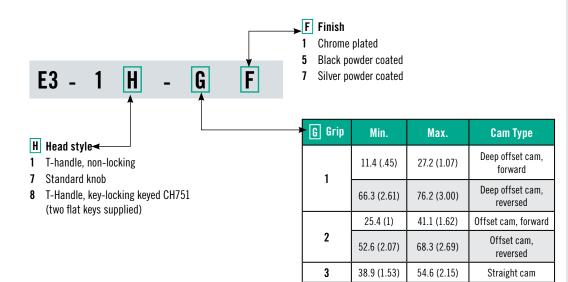
T-handle, key-locking







Part Number Selection









E3 *VISE ACTION®* Compression Latch 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

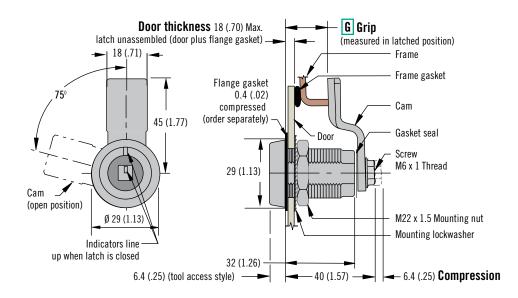
NEMA 4 / IP65 sealing is achieved by using optional flange gasket. Flange gasket part number: E5-17

Installation Notes

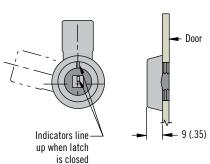
Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for the mounting screw in 10 N·m (88 in·lbf)

Keys and Accessories

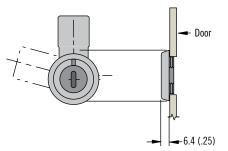
See pages 58 - 61

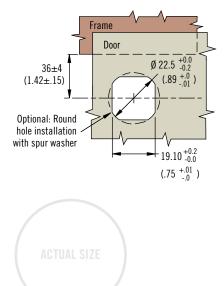


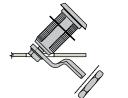
Railway Standard - Bellcore 216



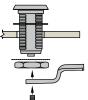
All Other Head Styles (slotted recess shown)







A Assembled Installation



A Unassembled Installation



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INFO CLIC

H Head Styles











8 (.32)

Square driver



Railway standard

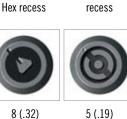
Bellcore 216

Square



SOUTHCO®

Tubular key

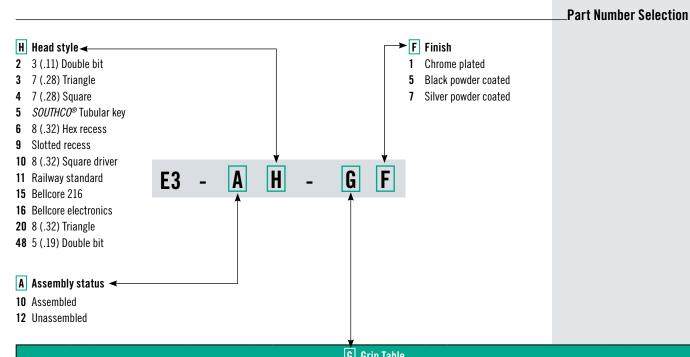


Slotted

8 (.32)

Triangle

Double bit



	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		



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E3 *VISE ACTION®* Compression Latch Large · Zinc and plated steel · Hand operated · Fixed grip

- Consistent pre-set compression
- Quick install
- 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

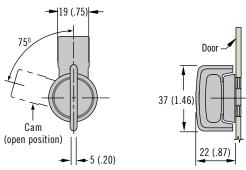
Key CH751 page 58 Washers and sleeve nut see page 60

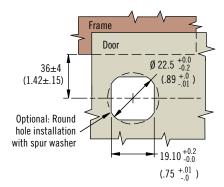
Door Gasket 75° M22 x 1.5 mounting nut Flange gasket 0.4 (.02) 45 (1.77) compressed (order separately) 22 (.88) Mounting Cam (open position) Ø 29 lockwasher (1.13) 32 (1.26)-82.5 (3.25) 32.5 40 (1.57) (1.27)

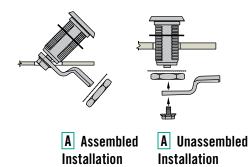
Door thickness 18 (.70) Max.

Frame

latch unassembled (door plus flange gasket)







G Grip range

(measured in latched position)

Cam

Screw M6 x 1 Thread

Gasket seal

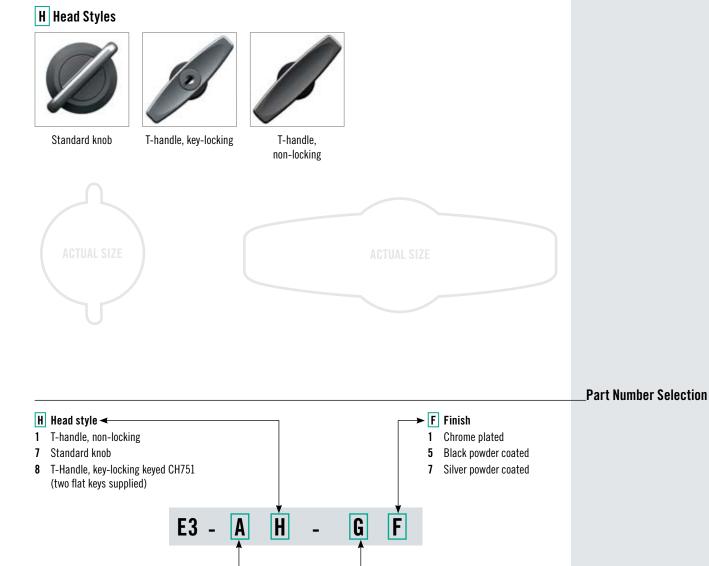
6.4 (.25)

Compression

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	A	Assembly	status
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- 10 Assembled
- 12 Unassembled

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	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		







E3 *VISE ACTION®* Compression Latch Large · Zinc and plated steel · Wing knob · Adjustable grip



Easy grip adjustment
Multiple key codes

compression

Consistent pre-set

Material and Finish

Zinc alloy, powder coated and steel, zinc plated

Performance Details Max. static load: 450 N (100 lbf)

Sealing Notes

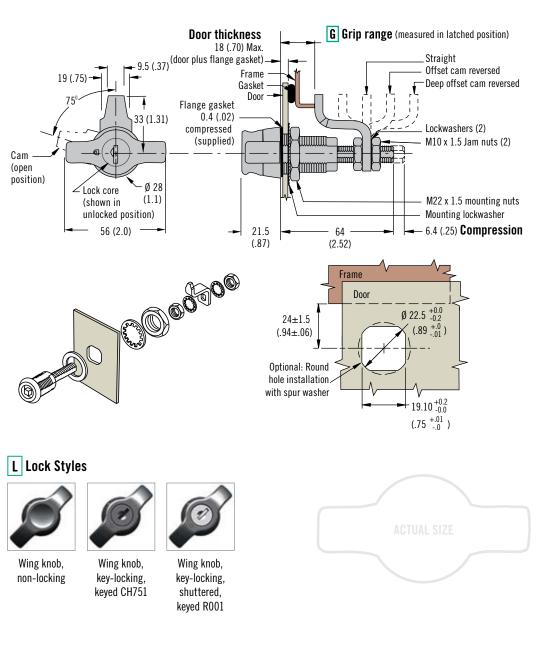
NEMA 4 / IP65 sealing is achieved by using gasket supplied.

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).

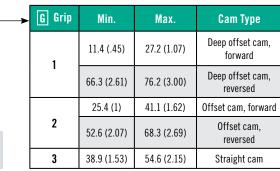
Keys and Accessories

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



Part Number Selection

 Lock style 50 Wing knob, non-locking 51 Wing knob, key-locking, keyed CH751 (1 overmolded key supplied) 58 Wing knob, key-locking, keyed R001 (1 overmolded key supplied) 		
E3 - 1	L - G 5	

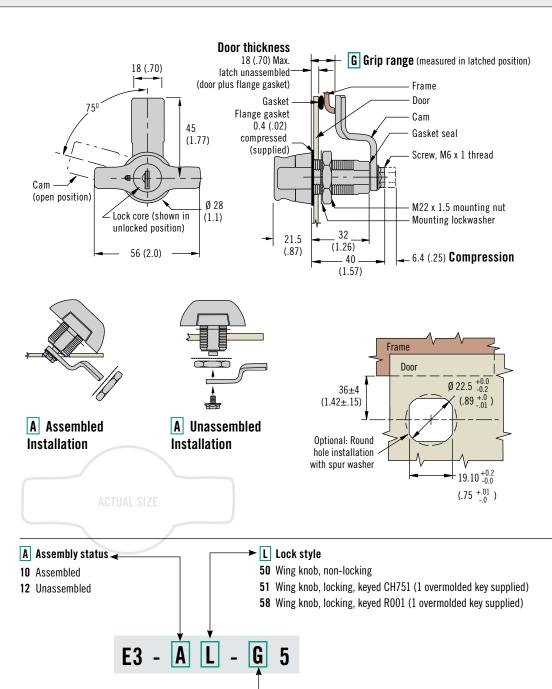




www.southco.com/E3

INFO CLIC

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



- 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

Part Number Selection

					🗕 🕨 🖌 🕞 Gri	p 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	







• Consistent pre-set

• Easy grip adjustment

plated and steel, zinc plated

Max. static load: 450 N (100 lbf)

For door thickness greater than 4

(.16) calculate screw length using

Performance Details

Installation Notes

the following formula:

Pages 58 - 61

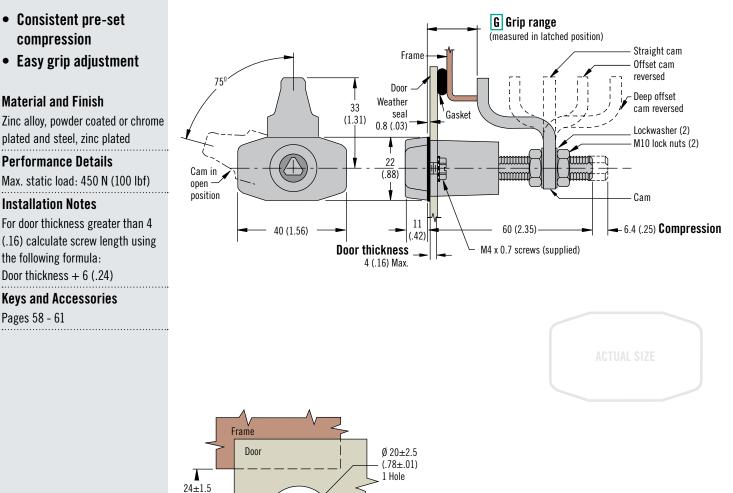
Door thickness + 6 (.24) **Keys and Accessories**

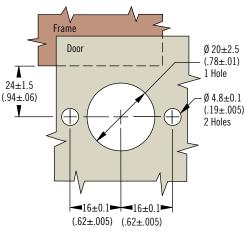
compression

Material and Finish

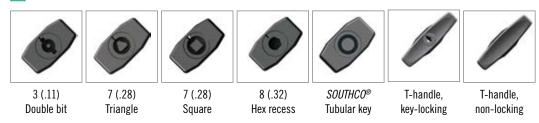
E3 VISE ACTION® Compression Latch

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





H Head Styles



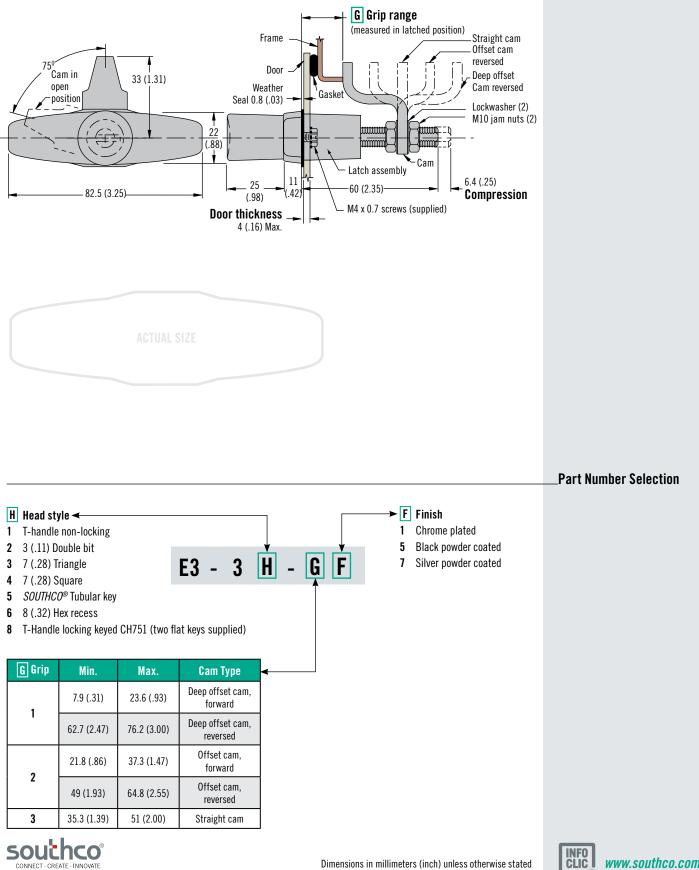
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Dimensions in millimeters (inch) unless otherwise stated

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E3 *VISE ACTION®* Compression Latch Accessories Keys

Material and Finish Keys - Steel **Key Styles** 50 (1.97) For latches with SOUTHCO® Steel, zinc plated \cap Tubular key head styles Part Number 39 (1.54) 2 3 (.11) Double bit Steel tubular key (order separately) Small E3 latches: E3-26-819-15 Ø 11.5 (0.45) Large E3 latches: E3-5-15 3 7 (.28) Triangle 4 7 (.28) Square Keys - Zinc or Nylon **Material and Finish** 55 (2.2) Zinc alloy or nylon 7 8 (.32) Triangle 56 (2.2) H Head style 🗲 8 8 (.32) Square recess 2 3 (.11) Double bit 3 7 (.28) Triangle 4 7 (.28) Square 9 5 (.19) Double bit 7 8 (.32) Triangle 8 8 (.32) Square recess 5 (.19) Double bit 10 8 (.32) Square male 9 (nylon only) F Finish **10** 8 (.32) Square male Plated zinc 1 11 Bellcore electronics (zinc only) 2 Natural zinc **11** Bellcore electronics 3 Nylon black **12** Bellcore 216 12 Bellcore 216 (zinc only) 24 6(.24) Square recess (nylon only) 24 6 (.24) Square recess F H **E**3

Part Number

INFO

CLIC

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 R001



Flat Keys Key CH751



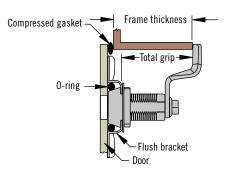


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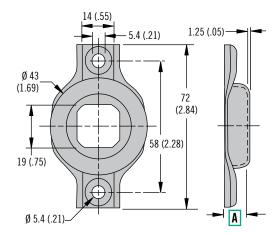
E3 *VISE ACTION®* Compression Latch Accessories

Fixed bracket for flush mounting





А	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	*9.3 E3-77-252-24 304 Stainless steel						
* For use	* For use with Railway standard or Bellcore 216 style only						



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.

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

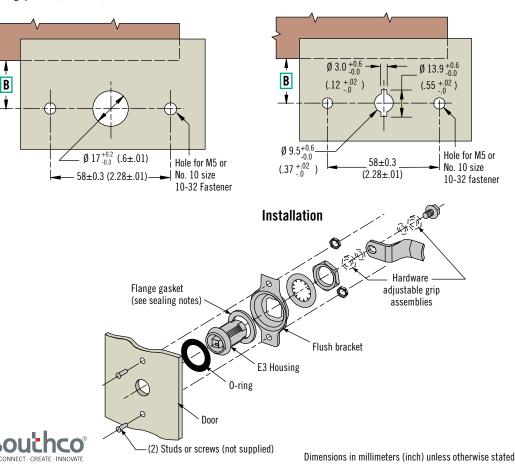
Door preparation

4

В

1

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

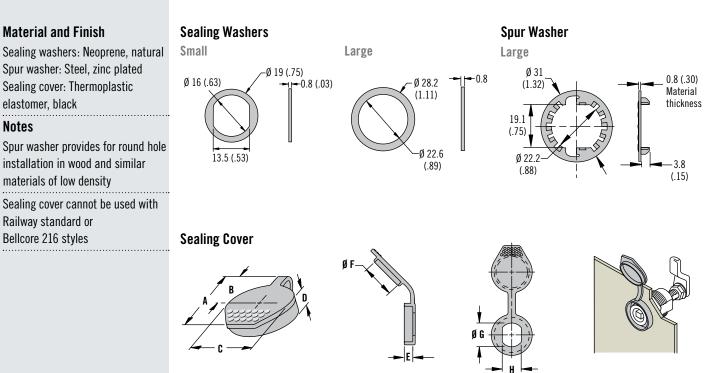






E3 *VISE ACTION®* Compression Latch Accessories

Sealing & spur washers · Sealing covers · Sleeve nut



Latch Ins	stallation Hole Size			Dimen	sions		
ØG	Distance across flat H	A	В	Ø C	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

Zinc allov

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

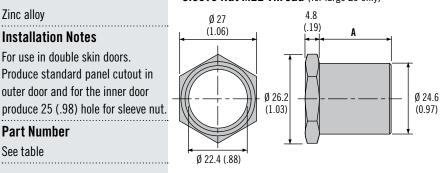
Installation Notes For use in double skin doors. Produce standard panel cutout in outer door and for the inner door

Part Number See table

INFO

CLIC

Sleeve Nut M22 Thread (for large E3 only)



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



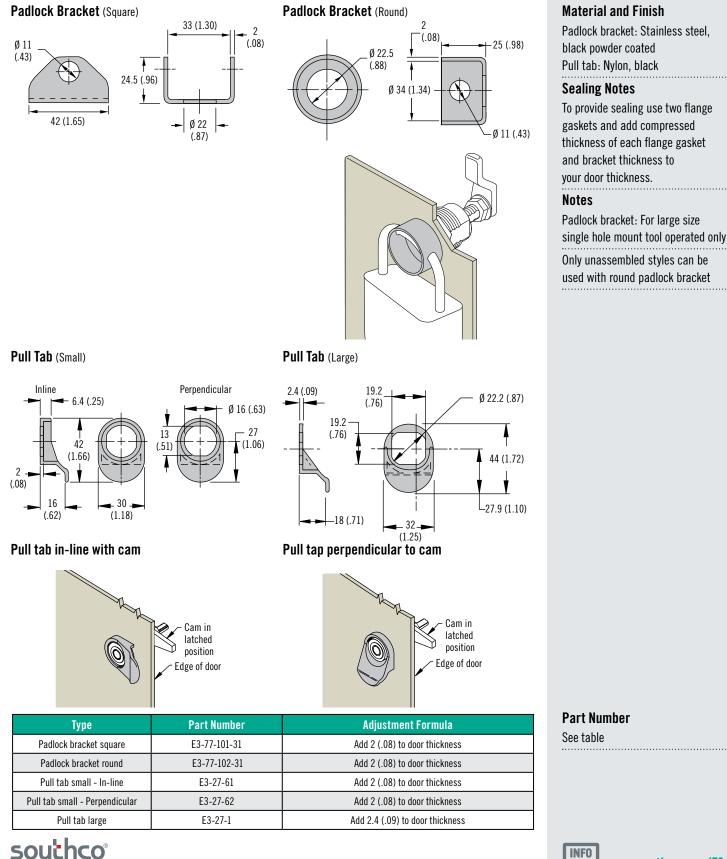
Dimensions in millimeters (inch) unless otherwise stated

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E3 VISE ACTION® Compression Latch Accessories

Padlock brackets · Finger pulls





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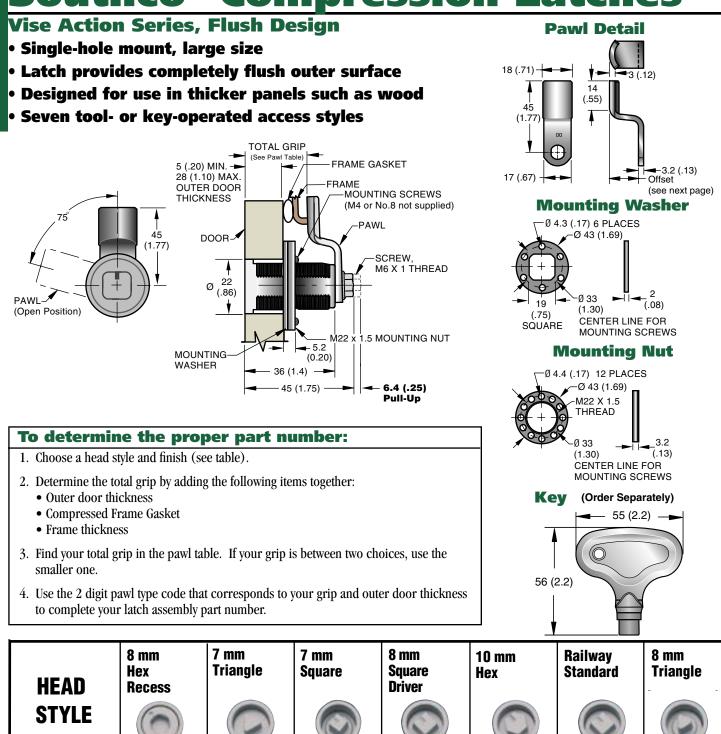
Dimensions in millimeters (inch) unless otherwise stated



Southco[®] Compression Latches

Compression Latches

Fixed



E3-143-XX1•

E3-143-XX5•

E3-143-XX7•

E3-3-1 •

E3-144-XX1•

E3-144-XX5•

E3-144-XX7•

E3-4-1 •

E3-1410-XX1•

E3-1410-XX5•

E3-1410-XX7•

E3-8-1 •

E3-1418-XX1•

E3-1418-XX5•

E3-1418-XX7•

10 mm (.375)

Hex Recess

(Not available

from Southco)

E3-1411-XX1•

E3-1411-XX5•

E3-1411-XX7•

RIC Standard

(European Railway

Standard)

Not available

from Southco

Bright Chrome

Black Powder

Coated

Satin Silver

Polvester

Powder Coated

Keys

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mber

Part Nu

E3-146-XX5

E3-146-XX7



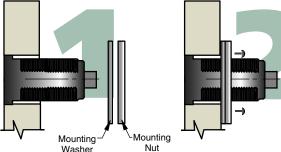
E3-1420-XX1•

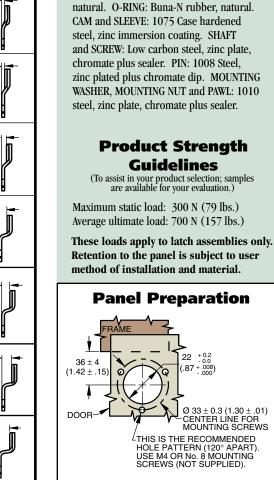
E3-1420-XX5•

E3-1420-XX7•

E3-7-1 •

PAWL TYPE NUMBERS											
Pawl Type	TOTAL Grip	Pawl Offset	Pawl Type	TOTAL Grip	Paw Offse						
XX=00 •	19 (.75)	18 (.71)	XX=10 •	39 (1.53)	2 (.08)						
XX=01 •	21 (.83)	16 (.63)	XX=11 •	41 (1.61)	4 (.16)						
(X=02 •	23 (.91)	14 (.55)	XX=12 •	43 (1.69)	6 (.24)						
XX=03 •	25 (.98)	12 (.47)	XX=13 •	45 (1.77)	8 (.31)						
XX=04 •	27 (1.06)	10 (.39)	XX=14	47 (1.85)	10 (.39)						
XX=05 •	29 (1.14)	8 (.31)	XX=15	49 (1.93)	12 (.47)						
XX=06 •	31 (1.22)	6 (.24)	XX=16	51 (2.01)	14 (.55)						
XX=07 •	33 (1.30)	4 (.16)	XX=17	53 (2.09)	16 (.63)						
XX=08 •	35 (1.38)	2 (.08) -	XX=18	55 (2.17)	18 (.71)						
XX=09 •	37 (1.46)	0 (0)	XX=19	57 (2.24)	20 (.79)						





Installation

Material and Finish HOUSING and CAP: Die-cast zinc, bright chrome plated or powder coated, see table. RETAINER and SPRING: 302 Stainless steel,

- 1. Insert the latch through the rear of the door. Place the mounting washer then the mounting nut onto the latch.
- 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

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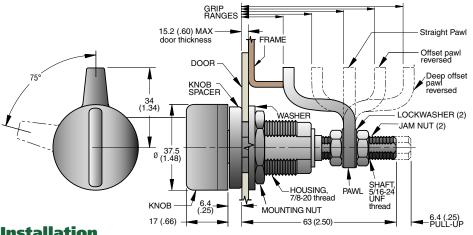
Southco[®] Compression Latches

Vise Action Series Knob Style

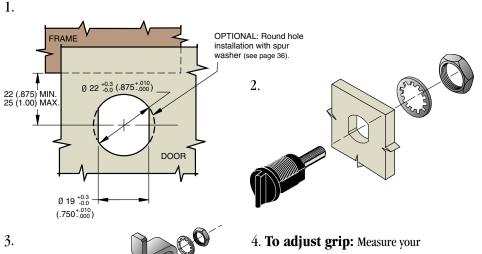
Single-hole mount, large size

00

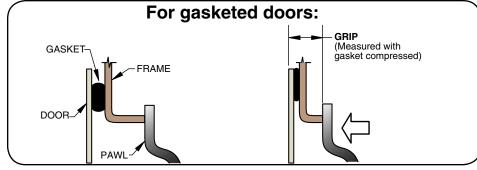
- Wider flange for mounting in non-metallic materials
- Knob provides quick, unrestricted access



Installation



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 Nom (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 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.

* The same pawl (curved forward or reversed) is supplied for both short and long grips. ‡ For intermediate grip, straight pawl is supplied.

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.

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