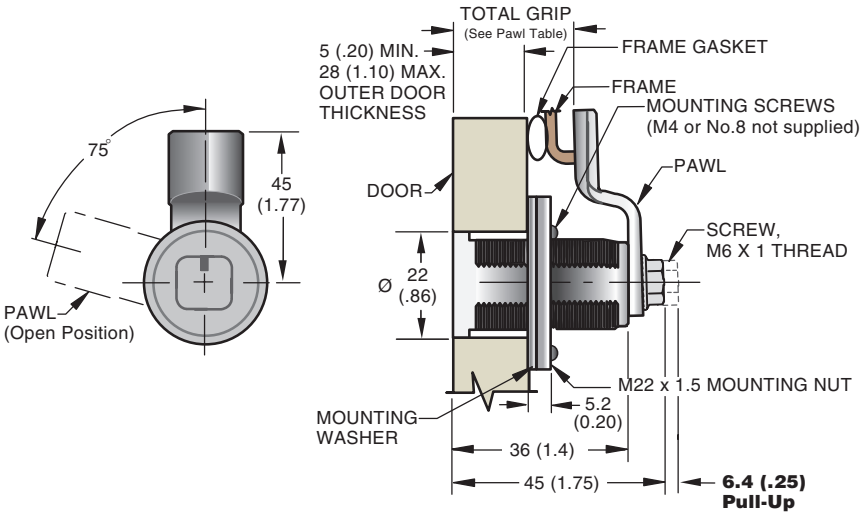
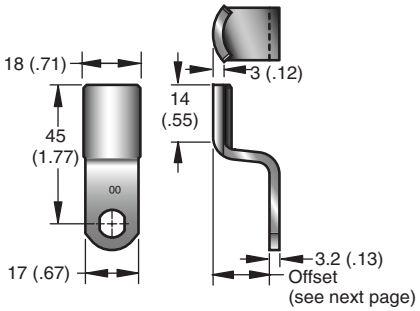
Southco® Compression Latches

Vise Action Series, Flush Design

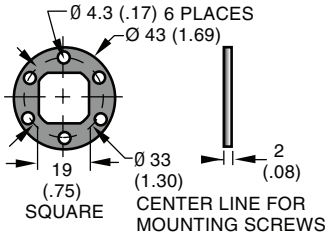
- **Single-hole mount, large size**
- **Latch provides completely flush outer surface**
- **Designed for use in thicker panels such as wood**
- **Seven tool- or key-operated access styles**



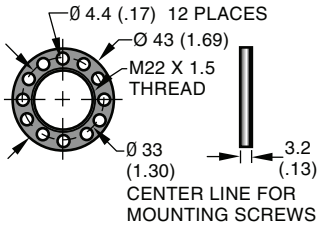
Pawl Detail



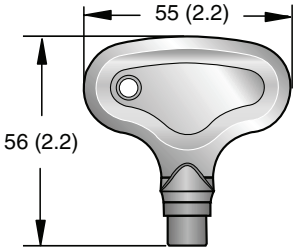
Mounting Washer



Mounting Nut



Key (Order Separately)



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.

	HEAD STYLE	8 mm Hex Recess	7 mm Triangle	7 mm Square	8 mm Square Driver	10 mm Hex	Railway Standard	8 mm Triangle
Part Number	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•
	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•
	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 •

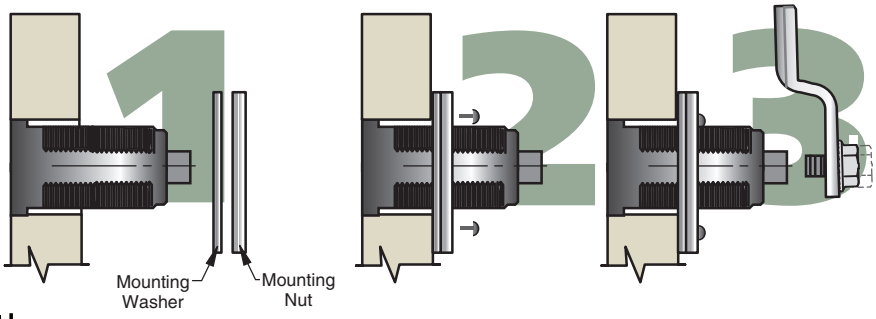
Latches are individually packaged. For layer packaged latches (50 pieces minimum, sold in multiples of 50) add -13 to the part number. Example: E3-1410-**XX**1-13.

 • Products identified with this symbol are stocked subject to prior sale in one or more of our global locations. If unavailable from our facility nearest you, allow for shipping time from another facility.

PAWL TYPE NUMBERS

Pawl Type	TOTAL GRIP	Pawl Offset
XX=00 •	19 (.75)	18 (.71)
XX=01 •	21 (.83)	16 (.63)
XX=02 •	23 (.91)	14 (.55)
XX=03 •	25 (.98)	12 (.47)
XX=04 •	27 (1.06)	10 (.39)
XX=05 •	29 (1.14)	8 (.31)
XX=06 •	31 (1.22)	6 (.24)
XX=07 •	33 (1.30)	4 (.16)
XX=08 •	35 (1.38)	2 (.08)
XX=09 •	37 (1.46)	0 (0)

Pawl Type	TOTAL GRIP	Pawl Offset
XX=10 •	39 (1.53)	2 (.08)
XX=11 •	41 (1.61)	4 (.16)
XX=12 •	43 (1.69)	6 (.24)
XX=13 •	45 (1.77)	8 (.31)
XX=14	47 (1.85)	10 (.39)
XX=15	49 (1.93)	12 (.47)
XX=16	51 (2.01)	14 (.55)
XX=17	53 (2.09)	16 (.63)
XX=18	55 (2.17)	18 (.71)
XX=19	57 (2.24)	20 (.79)



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.

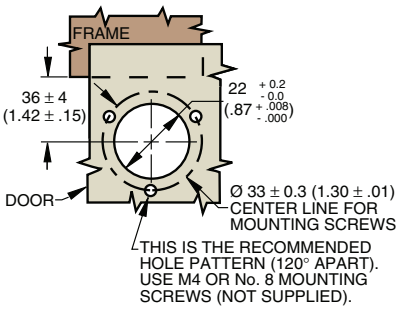
Product Strength Guidelines

(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.

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