Multi-point latching systems provide a convenient solution for large door spans with a single user touch point operating multiple latch points.

Multiple points of engagement provide extra security and strength by eliminating pry points, door flexing and rattle.

Available in multiple styles for gasket sealed applications.

Multi-point rod systems provide a simple, economical add-on for many SOUTHCO® single point latches.

Rod systems can be included in your original cabinet design or retrofit as needed. Additional latching points provide extra security and strength by eliminating pry points, flexing and rattle.

Available in multiple styles for gasket sealed applications.
The H3 electronic locking swinghandle provides the functionality of a manual latching system with the added benefit of electronic locking for access control. For more information see pages 38-39 in the Electronic Access section.

- Remote lock and unlock
- Single or multi-point
- Low power, gear motor driven mechanism
- Momentary or continuous lock actuation
- High security DIN lock manual override
- Directly integrates with industry standard rack monitoring and access control systems
- Fits industry standard panel preparations
- Integrated sensors detect lock and latch status for network control, monitoring and alarm functions
- Accommodates both left and right doors
Multi-Point Systems

Multi-point latching systems provide a convenient solution for large door spans, with a single user touch point operating multiple latching points. Providing multiple points of engagement alleviates door flexing and rattling, and eliminates pry points on doors with longer spans. Over-center mechanisms provide the ultimate in consistent compression along the entire edge of the enclosure door. Available with a choice of stylish actuators and security options to suit all your application requirements.

M3 Adjustable Compression
- Designed for NEMA/IP rated enclosures
- Multiple security options
- Each latch fully adjustable for perfect door trim

CR Compression Swinghandle
- Designed for NEMA/IP rated enclosures
- Multiple security options
- Designed with center point compression and heavy-duty adjustable rod roller system

F2 Lift Handle
- Designed for indoor enclosures and installed outside the sealed area

H3 Swinghandle
- Designed for NEMA/IP rated enclosures
- Multiple actuator styles
- Suitable for A5 modular rod system
- Linear actuator assembly for limited space application

Dimensions in millimeters (inch) unless otherwise stated
**SOUTHCO®** rod systems are a simple add-on option for many single-point latches to provide multi-point latching for added strength and security, eliminating pry points, flexing and rattle. Available with a variety of stylish actuators and security options to suit all your enclosure requirements.

In this handbook, where a latch product page displays the multi-point icon, it indicates that you can add a rod system of your choice.

A rod system will require the center latching device to be ordered separately and the rod system components to be ordered from the same family.

### COMPATIBLE PRODUCT CLASS FAMILIES

<table>
<thead>
<tr>
<th>EAS</th>
<th>COMPRESSION</th>
<th>CAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3 - EM</td>
<td>E3 Large</td>
<td>62</td>
</tr>
<tr>
<td></td>
<td>M1</td>
<td>E5</td>
</tr>
<tr>
<td></td>
<td>H3</td>
<td>92</td>
</tr>
<tr>
<td></td>
<td>68</td>
<td>01</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td></td>
</tr>
</tbody>
</table>

**A5 Modular Rod System**

Adjustable rod system
(shown with H3 swing handle latch)

Dimensions in millimeters (inch) unless otherwise stated
**Multi-Point Latching Systems**

Selection guide

Use this selection guide to help make the right choice of multi-point system for your application.

### COMPLETE SYSTEMS

<table>
<thead>
<tr>
<th>Actuator</th>
<th>Latch</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Zinc and Steel, Zinc Plated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zinc Stainless Steel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Plastic and Steel, Zinc Plated</td>
</tr>
</tbody>
</table>

#### MULTI-POINT LATCHING SYSTEMS

PAGES 174-197

- **M3**
- **CR**
- **F2**
- **H3**

Dimensions in millimeters (inch) unless otherwise stated.

### ROD SYSTEMS

<table>
<thead>
<tr>
<th>Product Class</th>
<th>MATERIAL</th>
<th>PERFORMANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Zinc Actuator with Plated Steel Rod</td>
<td>Zinc Plated Steel actuator with Aluminium Rod</td>
</tr>
<tr>
<td>A5</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>A5 - A8</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>H3 Linear Actuator</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

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

**ROD SYSTEMS**

PAGES 198-201

1-800-453-1692
www.aboveboardelectronics.com
<table>
<thead>
<tr>
<th>PERFORMANCE</th>
<th>ACCESS STYLE</th>
<th>INSTALLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Static Load</td>
<td>NEMA / IP Rated</td>
<td>Compression</td>
</tr>
<tr>
<td>890 N (200 lbf)</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>500 N (112 lbf)</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>100 N (22 lbf)</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>250 N (56 lbf)</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

Dimensions in millimeters (inch) unless otherwise stated

<table>
<thead>
<tr>
<th>COMPATIBLE PRODUCT CLASS FAMILIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAS PAGES 38-39</td>
</tr>
<tr>
<td>H3 - EM</td>
</tr>
</tbody>
</table>

Dimensions in millimeters (inch) unless otherwise stated
M3 Compression System
Remote compression latch

- Consistent compression driven by rotational rod
- Adjustable grip
- Meets NEMA 4 / IP66 and EMI standards
- Can be driven by hand, tool or key-locking actuators

Material and Finish
Zinc alloy and steel, zinc plated

Performance Details
Max. static load: 890 N (200 lbf) per latch
Average ultimate load: 1335 N (300 lbf)

Grip range
- Cam forward: 3.5 (.14) to 10.2 (.40)
- Cam reversed: 10.2 (.40) to 20 (.79)

Notes
Do not exceed 20 (.79) grip range with cam reversed

Part Number
The complete system consists of:
Remote compression latch and/or optional keeper (see page 178)
Actuator (see pages 179-182)
Rods (see page 183)

Order each component separately

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

www.southco.com/M3

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote compression latch</td>
<td>M3-50</td>
</tr>
<tr>
<td>Keeper (optional)</td>
<td>M3-51 use for grip ranges 15 – 30 (.69 – 1.18)</td>
</tr>
</tbody>
</table>
M3 Compression System
Actuators · Lift handle

Lift Handle
Locking options

- Southco keylock
- Bellcore electronics
- Bellcore 216
- DIN profile

Dimensions in millimeters (inch) unless otherwise stated

<table>
<thead>
<tr>
<th>Frame edge location</th>
<th>10±0.5 (.39±.02)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting hole pattern for remote compression latch</td>
<td>43±0.3 (.169±.01)</td>
</tr>
<tr>
<td>Minimum</td>
<td>17 (.67)</td>
</tr>
<tr>
<td>Maximum</td>
<td>178±1 (.064)</td>
</tr>
<tr>
<td>R5</td>
<td>20 (.80)</td>
</tr>
</tbody>
</table>

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

Sealing Notes
NEMA 4 / IP66 achieved using gasket supplied

DIN Profile Key Part
M3-0-36406

Part Number Selection

Actuator only
The complete system consists of:
Remote compression latch and/or optional keeper (see page 178)
Actuator (see page 178-182)
Rods (see page 183)

Order each component separately

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

www.southco.com/M3

- Suitable for left and right side latching
- Meets NEMA 4 / IP66 and EMI standards
- Ejecting handle

Padlock option
0 Non padlock
1 Padlockable

Door thickness range
10 1.5 - 3 (.06 - .12)
11 3 - 4.5 (.12 - .18)
25 24 - 25.5 (.94 - 1.0)

Lock style
10 Key-locking keyed alike CH751 (two keys supplied)
11 DIN profile supplied keyed alike 347276
   (three keys supplied)
12 DIN lock CH751
13 Push button
16 Bellcore 216
17 Bellcore electronics

www.aboveboardelectronics.com
M3 Compression System
Actuators · Push-button handle

- Suitable for left and right side latching

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

Sealing Notes
NEMA 4 / IP66 achieved using optional gaskets (ordered separately)

Part Number
Actuator and sealing gasket only see table
The complete system consists of: Remote compression latch and/or optional keeper (see page 178) Actuator (see pages 179-182) Rods (see page 183) Order each component separately

Other options available. For complete details on variety, part numbers, installation and specification, go to www.southco.com/M3

- Push-button handle
  - 0 - 5 (0 - .20) M3-90
  - 5 - 10 (.20 - .39) M3-92

- Push-button handle with key-lock
  - 0 - 5 (0 - .20) M3-91
  - 5 - 10 (.20 - .39) M3-93

Sealing Gasket Part Number
C5-82

Dimensions in millimeters (inch) unless otherwise stated

www.aboveboardelectronics.com
M3 Compression System
Actuators - Paddle handle

- Suitable for left and right side latching

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

Sealing Notes
NEMA 4 / IP66 achieved using gasket supplied

Dimensions in millimeters (inch) unless otherwise stated

Paddle Handle

Program Part Number
M3-10
M3-17

Part Number
Actuator and gaskets only see table
The complete system consists of:
Remote compression latch and/or optional keeper (see page 178)
Actuator (see pages 179-182)
Rods (see page 183)
Order each component separately

Other options available. For complete details on variety, part numbers, installation and specification, go to
www.southco.com/M3

Request Info
1-800-453-1692
www.aboveboardelectronics.com
M3 Compression System
Actuators · Door edge lever · Concealed

Dimensions in millimeters (inch) unless otherwise stated

Door Edge Lever

Lever actuator (type B shown)

19.4 (.76)
19 (.75)

76.2 (3.00)

3.2 (.125)

152 (6.00)

Material and Finish
Door edge lever: Zinc alloy, black powder coated and steel, zinc plated
Adapter: Zinc alloy, chemical protective film
Concealed: Zinc alloy, chemical protective film

Notes
Concealed: Operated by 8mm hex wrench (not supplied)

Part Number
Actuator

The complete system consists of:
Remote compression latch
Remote compression latch and/or optional keeper (see page 178)
Actuator (see pages 179-182)
Rods (see page 183)
Order each component separately

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

www.southco.com/M3

- Simple actuator for top or bottom of door

<table>
<thead>
<tr>
<th>Actuator</th>
<th>Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lever (includes adapter and O-ring)</td>
<td>A</td>
<td>M3-31</td>
</tr>
<tr>
<td>B</td>
<td>M3-32</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Actuator</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hex socket with O-ring seal</td>
<td>M3-30</td>
</tr>
</tbody>
</table>

www.aboveboardelectronics.com
M3 Compression System
Rods and Calculator

### Hexagonal Rod

<table>
<thead>
<tr>
<th>Hex Rod Length (length measured in centimeters)</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>125 cm</td>
<td>M3-125</td>
</tr>
<tr>
<td>155 cm</td>
<td>M3-155</td>
</tr>
<tr>
<td>185 cm</td>
<td>M3-185</td>
</tr>
</tbody>
</table>

### Material and Finish
Stainless steel, natural

### Notes
If you choose to use your own rods, they should have no more than 1 degree of twist in any meter length.

### Part Number
Rod only see table
The complete system consists of:
- Remote compression latch and/or optional keeper (see page 178)
- Actuator (see pages 179-182)
- Rods (see page 183)

Order each component separately.

### Calculation Notes
Once you have completed the calculation please order the following parts:
- 1 x Actuator
- 1 or 2 rods to correct length
- Number of compression latches determined from calculation

### Calculator
To determine the minimum number of remote compression latches you require along the door edge:

\[ N = \frac{L \times R}{470} \]

- \( N \) = Number of compression latches along door edge (rounded to the nearest whole number)
- \( L \) = Total length of gasketing material in millimeters
- \( R \) = Gasket compression rate in N/mm

**Example:**

\[ 5200 \text{ mm} \times 0.3 \text{ N/mm} = \frac{3.28}{470} \approx 3 \text{ latches} \]

Remote compression latches should be evenly spaced along edge of door.

Dimensions in millimeters (inch) unless otherwise stated.

Remote compression latches should be evenly spaced along edge of door.
**CR Compression System**

Swinghandle actuator

- Consistent compression
- Adjustable grip
- Meets NEMA 4 / IP66 and EMI standards

**Material and Finish**
Handle actuator: Zinc alloy black powder coated
Mounting hardware: Acetal black, stainless steel and brass

**Performance Details**
Maximum static load: 500 N (110 lbf) per latch point
Average ultimate load: 1400 N (315 lbf)

---

**Part Number Selection**
See table

Actuator only
The complete system consists of:
- Actuator (see part number selector)
- Cam (see page 185)
- Rod end (see page 186)
- Rods (see page 186)
- Rod guide (see page 186)

Order each component separately

---

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

[www.southco.com/CR](http://www.southco.com/CR)

---

**Dimensions in millimeters (inch) unless otherwise stated**

**CR - 19 - L - R 5**

**Lock style**
- 11 Key-locking keyed alike CH751 (2 keys supplied)
- 21 Keylocking keyed alike CH751 (2 keys supplied) and padlock hasp
- 32 DIN 1834 profile keyed alike 347876 (3 keys supplied)
- 44 Bellcore electronics
- 45 Bellcore 216
- 54 Bellcore electronics and padlock hasp
- 55 Bellcore 216 and padlock hasp

**Rotation**
- 1 Universal 180°
- 2 Counter-clockwise 90°
- 3 Clockwise 90°
Cam
See page 184 for definition of cam grip

Dimensions in millimeters (inch) unless otherwise stated

<table>
<thead>
<tr>
<th>Cam Part Number</th>
<th>Offset A</th>
<th>Cam Grip Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Cam Forward</td>
</tr>
<tr>
<td>CR-846-1000-24</td>
<td>0 (0.0)</td>
<td>56.5 - 62</td>
</tr>
<tr>
<td>CR-846-1005-24</td>
<td>5 (.20)</td>
<td>51.5 - 57</td>
</tr>
<tr>
<td></td>
<td></td>
<td>61.5 - 67</td>
</tr>
<tr>
<td>CR-846-1010-24</td>
<td>10 (.39)</td>
<td>46.5 - 52</td>
</tr>
<tr>
<td></td>
<td></td>
<td>66.5 - 72</td>
</tr>
<tr>
<td>CR-846-1015-24</td>
<td>15 (.59)</td>
<td>41.5 - 47</td>
</tr>
<tr>
<td></td>
<td></td>
<td>71.5 - 77</td>
</tr>
<tr>
<td>CR-846-1020-24</td>
<td>20 (.79)</td>
<td>36.5 - 42</td>
</tr>
<tr>
<td></td>
<td></td>
<td>76.5 - 82</td>
</tr>
<tr>
<td>CR-846-1025-24</td>
<td>25 (.98)</td>
<td>31.5 - 37</td>
</tr>
<tr>
<td></td>
<td></td>
<td>81.5 - 87</td>
</tr>
<tr>
<td>CR-846-1030-24</td>
<td>30 (1.18)</td>
<td>26.5 - 32</td>
</tr>
<tr>
<td></td>
<td></td>
<td>86.5 - 92</td>
</tr>
<tr>
<td>CR-846-1035-24</td>
<td>35 (1.38)</td>
<td>21.5 - 27</td>
</tr>
<tr>
<td></td>
<td></td>
<td>91.5 - 97</td>
</tr>
<tr>
<td>CR-846-1040-24</td>
<td>40 (1.58)</td>
<td>16.5 - 22</td>
</tr>
<tr>
<td></td>
<td></td>
<td>96.5 - 102</td>
</tr>
<tr>
<td>CR-846-1045-24</td>
<td>45 (1.77)</td>
<td>11.5 - 17</td>
</tr>
<tr>
<td></td>
<td></td>
<td>101.5 - 107</td>
</tr>
<tr>
<td>CR-846-1050-24</td>
<td>50 (1.97)</td>
<td>6.5 - 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>106.5 - 112</td>
</tr>
</tbody>
</table>

Material and Finish
Stainless steel

Part Number
Cam see table

The complete system consists of:
Actuator (see page 184)
Cam (see page 185)
Rod end (see page 186)
Rods (see page 186)
Rod guide (see page 186)

Order each component separately

Other options available. For complete details on variety, part numbers, installation and specification, go to www.southco.com/CR
## CR Compression System

**Rod end · Rod · Rod guide · Installation**

### Material and Finish

Rod end: Stainless steel and nylon, black  
Rod: Aluminum  
Rod guide: Brass

### Notes

Rod end: When more than one rod end fits desired rod end grip range select the part number with the lowest offset value.  
Rod: Sold separately without mounting hole, in standard length of 1000 (39.37). Rod will need to be cut to desired lengths and mounting holes Ø 8.5 (.33) drilled. Minimum 300 (11.81), Maximum 1000 (39.37).  
Rod guide: M6 thread with prevailing torque for vibration resistance

### Part Number

Rod end, rod and rod guides see tables.  
The complete system consists of:  
Actuator (see page 184)  
Cam (see page 185)  
Rod end (see page 186)  
Rods (see page 186)  
Rod guide (see page 186)  
Order each component separately.

Other options available. For complete details on variety, part numbers, installation and specification, go to [www.southco.com/CR](http://www.southco.com/CR)

---

### Rod End Grip when used with 1000 (39.37) rod

<table>
<thead>
<tr>
<th>Offset</th>
<th>Formula for Stud Length  $\frac{2}{3} (\frac{2}{3})$ Distance from front of door to the end of the threaded stud (not supplied)</th>
<th>Rod End Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>+30 (1.18)</td>
<td>Rod end grip -16.5 (.65)</td>
<td>CR-51-30-24</td>
</tr>
<tr>
<td>+15 (1.59)</td>
<td>Rod end grip -1.5 (.06)</td>
<td>CR-51-15-24</td>
</tr>
<tr>
<td>0 (0)</td>
<td>Rod end grip +13.5 (.53)</td>
<td>CR-50-01-24</td>
</tr>
<tr>
<td>-30 (1.18)</td>
<td>Rod end grip +43.5 (1.71)</td>
<td>CR-52-30-24</td>
</tr>
</tbody>
</table>

### Example:

Rod end grip = 40 (1.57)  
Rod end offset = +15 (.59)  
Stud Length = 40 (1.57) - 1.5 (.06) = 38.5 (1.51)

---

### Rod

<table>
<thead>
<tr>
<th>Rod Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR-64-1000-50</td>
</tr>
</tbody>
</table>

### Rod Guide

<table>
<thead>
<tr>
<th>Rod Guide Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR-843-01-26</td>
</tr>
</tbody>
</table>
Installation

Single Skin Door
View From Front

Double Skin Door
View From Front

View From Rear

Dimensions in millimeters (inch) unless otherwise stated.
**F2 Compression System**

**System integration**

- Designed for indoor enclosures
- Operates outside the enclosure's seal
- Installs close to the door edge
- System engages when door is up to 15 mm (.59 in) away from the closed position

**Notes**

One complete system consists of:
- One actuator assembly (see page 189)
- Two rod assemblies (see pages 190-191)
- Keepers (quantity depends on no. of latches specified; see page 191)

Order each component separately

Dimensions in millimeters (inch) unless otherwise stated
F2 Compression System
Surface and flush actuators

Dimensions in millimeters (inch) unless otherwise stated

Flush Actuator

Surface Actuator

- Designed for indoor enclosures
- Operates outside the enclosure’s seal
- System engages when door is up to 15 mm (.59 in) away from the closed position

Material and Finish
PC/ABS plastic, black
Zinc alloy and steel, zinc plated

Performance Details
Max. static load:
100 N (22 lbf) per latch point
500 N (112 lbf) for entire system

Flammability rating:
UL94-VO for all plastic components

Accessories
Flat key keyed alike CH751 (2 keys per ring)
Part number: PK-10-01

Overmolded key keyed alike CH751 (2 keys per ring)
Part number: PK-10-01-05

Plain key SC001 (2 keys per ring)
Part number: FK-KEY-SC001

Part Number
Actuator only see table
One complete system consists of:
One actuator assembly (see page 189)
Two rod assemblies (see pages 190-191)
Keepers (quantity depends on no. of latches specified; see page 191)
Order each component separately

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

www.southco.com/F2

---

<table>
<thead>
<tr>
<th>Lock Style</th>
<th>Surface Actuator Part Number</th>
<th>Flush Actuator Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-locking</td>
<td>F2-20-17</td>
<td>F2-20-12</td>
</tr>
<tr>
<td>Key-locking keyed alike</td>
<td>F2-20-18</td>
<td>F2-20-13</td>
</tr>
<tr>
<td>SC001 (two keys supplied)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Key-locking keyed alike</td>
<td>F2-20-19</td>
<td>–</td>
</tr>
<tr>
<td>CH751 (two keys supplied)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

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1-800-453-1692
www.aboveboardelectronics.com
F2 Compression System
Rod assembly - High compression

- Multiple lengths and latching point locations
- Latching mechanisms engage keepers when door is up to 15 mm (.59 in) away from the closed position

Material and Finish
PC/ABS plastic black, zinc alloy and steel, zinc plated

Installation Notes
Latch installation stud is not supplied. Use M5 press-in studs or non-flanged weld studs. Length is 6 (.24) to 10 (.39) Maximum, measured from inside surface of the door. Example: F2-10-625-25

Stud must be positioned within 0.2 (.008) of nominal

Part Number
High compression rod assembly only see table

One complete system consists of:
One actuator assembly (see page 189)
Two rod assemblies (see pages 190-191)
Keepers (quantity depends on no. of latches specified; see page 191)
Order each component separately

Other options available. For complete details on variety, part numbers, installation and specification, go to www.southco.com/F2

Dimensions in millimeters (inch) unless otherwise stated

- No Latch Point • - Actuator Connection ● - Latch Point ▲ - Latch Stud Location

<table>
<thead>
<tr>
<th>Rod Length</th>
<th>Latch Installation Stud Locations from Centerline of Actuator</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>F2-10-125-1</td>
</tr>
<tr>
<td>125 (4.92)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>172 (6.772)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>625 (24.61)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>672 (26.457)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>250 (9.84)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>297 (11.693)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>375 (14.76)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>422 (16.614)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500 (19.69)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>547 (21.535)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>625 (24.61)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>672 (26.457)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>750 (29.53)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>797 (31.378)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>875 (34.45)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>922 (36.299)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

www.southco.com/F2

Request Info
1-800-453-1692
www.aboveboardelectronics.com
F2 Compression System
Rod assembly · Flexible

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/F2

F2 Compression System
Keeper

• Keeper roller provides for smooth operation

Notes
Order one keeper per latching point

Part Number
Keeper only see table
One complete system consists of:
One actuator assembly (see page 189)
Two rod assemblies (see pages 190-191)
Keepers (quantity depends on no. of latches specified; see page 191)
Order each component separately

Other options available. For complete details on variety, part numbers, installation and specification, go to
www.southco.com/F2

Grip | Part Number | X | Rod System Compatibility
--- | --- | --- | ---
15 (.59) | F2-30-15 | 11.5 (.45) | ✔ | ✔
19 (.75) | F2-30-19 | 15.5 (.61) | ✔ | ✔
20 (.79) | F2-30-20 | 16.5 (.65) | ✔ | ✔
22 (.87) | F2-30-22 | 18.5 (.73) | ✔ | ✔
25 (.98) | F2-30-25 | 21.5 (.85) | ✔ | ✔

Grip Part Number X

Right hand units only:
15 (.59) | F2-30-15 | 11.5 (.45)
19 (.75) | F2-30-19 | 15.5 (.61)
20 (.79) | F2-30-20 | 16.5 (.65)
22 (.87) | F2-30-22 | 18.5 (.73)
25 (.98) | F2-30-25 | 21.5 (.85)

Part Number

F2-11-125-19
F2-11-250-19
F2-11-375-19
F2-11-500-19
F2-11-625-19
F2-11-750-19
F2-11-875-19

Material and Finish
Glass-filled nylon black, brass and steel, zinc plated

Part Number
Rod and cam assembly only see table
The complete system consists of:
One actuator assembly (see page 189)
Two rod assemblies (see pages 190-191)
Keepers (quantity depends on no. of latches specified; see page 191)
Order each component separately

Other options available. For complete details on variety, part numbers, installation and specification, go to
www.southco.com/F2

Front and back of units only:
15 (.59) | F2-30-15 | 11.5 (.45) | ✔ | ✔
19 (.75) | F2-30-19 | 15.5 (.61) | ✔ | ✔
20 (.79) | F2-30-20 | 16.5 (.65) | ✔ | ✔
22 (.87) | F2-30-22 | 18.5 (.73) | ✔ | ✔
25 (.98) | F2-30-25 | 21.5 (.85) | ✔ | ✔

F2-11-125-19
F2-11-250-19
F2-11-375-19
F2-11-500-19
F2-11-625-19
F2-11-750-19
F2-11-875-19

Rod Length | Rod Part Number
--- | ---
125 (4.92) | F2-11-125-19
250 (9.84) | F2-11-250-19
375 (14.76) | F2-11-375-19
500 (19.69) | F2-11-500-19
625 (24.61) | F2-11-625-19
750 (29.53) | F2-11-750-19
875 (34.45) | F2-11-875-19

Cam Assembly Part Number
Hardware pack assembly contains 1 x cam, washer and shoulder nut (order 1 hardware pack per latching point) F2-50-1

Keeper Ro System Compatibility
High Compression | Flexible
--- | ---
✔ | ✔
✔ | ✔
✔ | ✔
✔ | ✔
✔ | ✔

Grip | Part Number | X | Rod System Compatibility
--- | --- | --- | ---
15 (.59) | F2-30-15 | 11.5 (.45) | ✔ | ✔
19 (.75) | F2-30-19 | 15.5 (.61) | ✔ | ✔
20 (.79) | F2-30-20 | 16.5 (.65) | ✔ | ✔
22 (.87) | F2-30-22 | 18.5 (.73) | ✔ | ✔
25 (.98) | F2-30-25 | 21.5 (.85) | ✔ | ✔

Grip Part Number X

Right hand units only:
15 (.59) | F2-30-15 | 11.5 (.45)
19 (.75) | F2-30-19 | 15.5 (.61)
20 (.79) | F2-30-20 | 16.5 (.65)
22 (.87) | F2-30-22 | 18.5 (.73)
25 (.98) | F2-30-25 | 21.5 (.85)

Part Number

F2-11-125-19
F2-11-250-19
F2-11-375-19
F2-11-500-19
F2-11-625-19
F2-11-750-19
F2-11-875-19

Material and Finish
Glass-filled nylon black, brass and steel, zinc plated

Part Number
Rod and cam assembly only see table
The complete system consists of:
One actuator assembly (see page 189)
Two rod assemblies (see pages 190-191)
Keepers (quantity depends on no. of latches specified; see page 191)
Order each component separately

Other options available. For complete details on variety, part numbers, installation and specification, go to
www.southco.com/F2

F2 Compression System
Rod assembly · Flexible

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/F2

F2 Compression System
Keeper

• Keeper roller provides for smooth operation

Notes
Order one keeper per latching point

Part Number
Keeper only see table
One complete system consists of:
One actuator assembly (see page 189)
Two rod assemblies (see pages 190-191)
Keepers (quantity depends on no. of latches specified; see page 191)
Order each component separately

Other options available. For complete details on variety, part numbers, installation and specification, go to
www.southco.com/F2
**H3 Swinghandle System**

**Medium / large - Sealed / non-sealed**

- Zinc alloy swinghandle system
- Multiple locking options; including DIN profile
- Indoor/outdoor version
- Available for medium (125mm x 25mm) and large (150mm x 25mm) door cutout
- Linear and rotational systems available

**Material and Finish**

Handle: Zinc alloy, black powder coated or satin chrome plated
Cam: Steel, zinc plated

**Performance Details**

Maximum static load: 250 N (56 lbf)

**Sealing Notes**

Sealed version meets NEMA 4/IP66 water intrusion standards

**Keys**

See page 130

**Notes**

Key removal in unlocked position only available on non-sealed version
Product available to meet TELCORDIA® GR-487 contact
Southco for details
Electromechanical swinghandle available see pages 38-39
For single point and actuator plate system see pages 144-145
For dimension details of DIN lock version, please contact Southco
For plastic version see page 196.

**TELCORDIA** is a registered trademark of Telcordia Technologies Inc.

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

www.southco.com/H3
Dimensions in millimeters (inch) unless otherwise stated

**Medium H3-50**

**Large H3-60**

**Cam Part Number Table For Use With Linear Actuator Or Actuator Plate**

<table>
<thead>
<tr>
<th>Grip With Linear Actuator</th>
<th>Grip With Actuator Plate</th>
<th>Part Number</th>
<th>Grip With Linear Actuator</th>
<th>Grip With Actuator Plate</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>~</td>
<td>~</td>
<td>E5-6107</td>
<td>36.9 (1.45)</td>
<td>26.3 (1.04)</td>
<td>E5-6115</td>
</tr>
<tr>
<td>~</td>
<td>12.3 (.48)</td>
<td>E5-6108</td>
<td>38.9 (1.53)</td>
<td>28.3 (1.11)</td>
<td>E5-6116</td>
</tr>
<tr>
<td>24.9 (.98)</td>
<td>14.3 (.56)</td>
<td>E5-6109</td>
<td>40.9 (1.61)</td>
<td>30.3 (1.19)</td>
<td>E5-6117</td>
</tr>
<tr>
<td>26.9 (1.06)</td>
<td>16.3 (.64)</td>
<td>E5-6110</td>
<td>42.9 (1.69)</td>
<td>32.3 (1.27)</td>
<td>E5-6118</td>
</tr>
<tr>
<td>28.9 (1.14)</td>
<td>18.3 (.72)</td>
<td>E5-6111</td>
<td>44.9 (1.76)</td>
<td>34.3 (1.35)</td>
<td>E5-6119</td>
</tr>
<tr>
<td>30.9 (1.22)</td>
<td>20.3 (.80)</td>
<td>E5-6112</td>
<td>46.9 (1.85)</td>
<td>36.3 (1.43)</td>
<td>E5-6120</td>
</tr>
<tr>
<td>32.9 (1.30)</td>
<td>22.3 (.88)</td>
<td>E5-6113</td>
<td>48.9 (1.93)</td>
<td>38.3 (1.51)</td>
<td>E5-6121</td>
</tr>
<tr>
<td>34.9 (1.37)</td>
<td>24.3 (.96)</td>
<td>E5-6114</td>
<td>50.9 (2.00)</td>
<td>40.3 (1.59)</td>
<td>E5-6122</td>
</tr>
</tbody>
</table>

**Latch Part Number (no cam)**

- **Size**
  - 50 Medium - 152 (5.98) length
  - 60 Large - 177 (6.97) length

- **Actuator style**
  1. No padlock hasp for use with linear actuator (see page 194)
  2. With padlock hasp for use with linear actuator (see page 194)
  3. No padlock hasp for use as single point or with actuator plate (see page 195)
  4. With padlock hasp for use as single point or with actuator plate (see page 195)

- **Sealing option**
  - 0 Non-sealed
  - 1 Sealed

- **Finish**
  - 44 Satin chrome
  - 50 Black powder coated

Note: 2 Overmolded keys supplied

---

**Part Number Selection**

For single point:
Order latch and cam separately (see page 144-145)

For multi-point order:
Latch and cam (if 3 point latching required)
Linear actuator and rod adaptors (see page 194)
Rods (see pages 198-201)
Rod guides (see pages 198-201)

---

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

www.southco.com/H3
H3 Linear Actuator
Linear actuator and rod adaptor

- Linear actuator for H3 swinghandles
- Linear rod travel for limited space
- Suitable for left and right hand applications

Material and Finish
Zinc alloy and steel, zinc plated

To Select Linear Actuator and Rod Adaptor:
For use with H3-50 and H3-60 swinghandles (see pages 192-193)
Order linear actuator and rod adaptors separately (1 actuator and 2 adaptors required per latch)

Accessories
Replacement rod adaptor retainer pin part number: H3-0-44778-01

Part Number
Linear actuator and rod adaptors see table
For multi-point order:
Latch (see pages 192-193)
Cam (if 3 point latching required) (see page 193)
Linear actuator and rod adaptor (see table)
Rods (see pages 198-201)
Rod guides (if required) (see page 198)

Other options available. For complete details on variety, part numbers, installation and specification, go to
www.southco.com/H3

Dimensions in millimeters (inch) unless otherwise stated

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Linear actuator</th>
<th>H3-51-40</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rod adaptor</td>
<td>A5-92-201-31</td>
</tr>
</tbody>
</table>
A5 Modular System
Actuator plates

Dimensions in millimeters (inch) unless otherwise stated

**Actuator Plate**
A5-90-101-11

<table>
<thead>
<tr>
<th>Part Number</th>
<th>X</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5-90-101-11</td>
<td>22.2</td>
<td>4.7</td>
</tr>
<tr>
<td>A5-90-104-11</td>
<td>25.2</td>
<td>7.7</td>
</tr>
<tr>
<td>A5-90-401-11</td>
<td>22.6</td>
<td>5.1</td>
</tr>
<tr>
<td>A5-90-501-11</td>
<td>23.4</td>
<td>5.9</td>
</tr>
</tbody>
</table>

A5-90-401-11 (Short Cam)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>X</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5-90-401-11</td>
<td>18.71</td>
<td>3.5</td>
</tr>
</tbody>
</table>

A5-90-301-11 (Long Cam)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>X</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5-90-301-11</td>
<td>18</td>
<td>6.6</td>
</tr>
</tbody>
</table>

**To Select Correct Actuator:**
1. Choose actuator plate to match latch family (one per latch required)
2. Order rods and rod guides from page 198

**Part Number**
Actuator plate see table
Rods (see page 198)
Rod guides (see page 198)

**Modular actuators to suit multiple latch families using A5 modular rods**

**Material and Finish**
Zinc alloy, steel, zinc plated and stainless steel set screw

Other options available. For complete details on variety, part numbers, installation and specification, go to www.southco.com/A5
H3 Swinghandle System
Plastic · Large · Non-sealed

- Lightweight Glass filled nylon swinghandle system UL94-V0 rated
- DIN profile locking options
- Push or turn to close versions available

Material and Finish
Handle: Glass filled nylon
Cam: Steel, zinc plated

Performance Details
Max. static load: 250 N (56 lbf)

Keys
See page 130

Notes
Electromechanical swinghandle available see pages 38-39
For metal version visit pages 144-145 and 192-193

Part Number Selection
For single point:
Order latch and cam separately
For multi-point order:
Latch and cam
Linear actuator and rod adaptors
Rods
Rod guides

Note
*2 keys supplied

Latch Part Number (no cam)

T Style
65 Push to close handle
66 Turn to close handle

H3 - T - 5 L - 071

Cam Part Number Table

<table>
<thead>
<tr>
<th>Grip</th>
<th>Part Number (length = 38mm)</th>
<th>Part Number (length = 45mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.5 (.61)</td>
<td>ES-6710</td>
<td>ES-6110</td>
</tr>
<tr>
<td>17.5 (.69)</td>
<td>ES-6711</td>
<td>ES-6111</td>
</tr>
<tr>
<td>19.5 (.77)</td>
<td>ES-6712</td>
<td>ES-6112</td>
</tr>
<tr>
<td>21.5 (.85)</td>
<td>ES-6713</td>
<td>ES-6113</td>
</tr>
<tr>
<td>23.5 (.93)</td>
<td>ES-6714</td>
<td>ES-6114</td>
</tr>
<tr>
<td>OTHER</td>
<td></td>
<td>Please contact Southco</td>
</tr>
</tbody>
</table>

Dimensions in millimeters (inch) unless otherwise stated

For complete details on variety, part numbers, installation and specification, go to www.southco.com/H3

www.aboveboardelectronics.com
1-800-453-1692
H3 Linear Actuators
Linear actuators and rod adaptor for plastic H3 swinghandle system

Dimensions in millimeters (inch) unless otherwise stated

Linear Actuator
(Right Hand Mounting shown)

Panel Preparation

Cam

Closed Position

Open Position

Rod Adaptor

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Linear actuator right hand mounting</th>
<th>H3-61-56-33</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Linear actuator left hand mounting</td>
<td>H3-61-55-33</td>
</tr>
<tr>
<td></td>
<td>Rod adaptor</td>
<td>A5-92-201-31</td>
</tr>
</tbody>
</table>

Other options available. For complete details on variety, part numbers, installation and specification, go to www.southco.com/H3

Material and Finish
Zinc alloy and steel, zinc plated

To Select Linear actuator and Rod Adaptor:
For use with H3-65 and H3-66 swinghandles. Order linear actuator and rod adaptors separately (1 actuator and 2 adaptors required per latch)

Accessories
Replacement rod adaptor retainer pin part number: H3-0-44778-01

Part Number
Linear actuator and rod adaptors see table

For multi-point order: Latch Cam (if 3 point latching required) Linear actuator and rod adaptor (see table)
Rods, Rod guides
**A5 Modular System**

**Rods and rod guides**

**Material and Finish**

Rods: Aluminum or steel, zinc plated

Rod rollers: Glass-filled nylon, black

Rod guides: Glass-filled nylon, black with steel, zinc plated hardware

**To Select Correct Assembly:**

1. Choose actuator plate to match latch family or linear actuator and 2 adaptors. See drawing J-A5-F30 for rod type and latch family compatibility.

2. Order rod guides (2 per assembly). Fixed rod guide recommended for fixed point rod. Adjustable rod guide recommended for rod roller assembly.

3. Order rods (2 per assembly)

**Part Number**

Order rod and rod guide separately see tables

Other rod lengths available. Please contact Southco

---

### Rods

<table>
<thead>
<tr>
<th>Rod Roller</th>
<th>Ø 18 (.71)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1000 (39.4)</td>
</tr>
<tr>
<td></td>
<td>Ø 8 (.31)</td>
</tr>
</tbody>
</table>

**Fixed Point Rod**

|            | 1000 (39.4) |
|            | Ø 8 (.31) |

---

### Rod Roller Steel Part Number

<table>
<thead>
<tr>
<th>Material</th>
<th>Fixed Point Rod Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>A5-55-1000-10</td>
</tr>
<tr>
<td>Steel</td>
<td>A5-55-1000-11</td>
</tr>
</tbody>
</table>

---

### Rod Guides

**Adjustable**

<table>
<thead>
<tr>
<th>Ø 8.5 (.33)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 6.4 (.25)</td>
</tr>
<tr>
<td>15 (.59)</td>
</tr>
<tr>
<td>10.3 (.40)</td>
</tr>
</tbody>
</table>

**Fixed**

<table>
<thead>
<tr>
<th>M6 x 1 nut</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 28 (1.10)</td>
</tr>
<tr>
<td>24 (.94)</td>
</tr>
</tbody>
</table>

---

### Adjustable Rod Guide Part Number

(includes 2 rod guides, 2 springs and 2 M6 nuts)

A5-87-401

---

### Fixed Rod Guide Part Number

(one piece supplied)

A5-81-301-71

---

Other options available. For complete details on variety, part numbers, installation and specification, go to www.southco.com/A5

---

www.aboveboardelectronics.com
Linear Actuator Assembly
(adjustable with rod roller shown)

Actuator Plate Assembly
(fixed point shown)

Notes
Modular system allows for any configuration of rod and rod guides

Dimensions in millimeters (inch) unless otherwise stated
A5 Flat Rod Systems
Rods, Guides, Adapters and Keepers

- Compatible with standard Southco latches, providing a variety of operating styles
- Mid Roller system allows latching outside of gasketed area

Material and Finish
Rods: Steel, zinc nickel plated
Rod rollers: Stainless Steel or Glass-filled nylon, black
Rod guides: Glass-filled nylon, black
Flat rod keeper: Zinc alloy, black powder coated

To select correct assembly:
1. Determine rod style and length desired
2. Choose actuator plate or linear actuator to match latch family
3. Choose adapter to match latch family
4. Refer to www.southco.com for additional details on offset and lengths

Note
Important: Adapters are used with A5-F30 and A5-F50 Rods only.
Product available to meet TELCORDIA GR-487. Contact Southco for details.
TELCORDIA is a registered trademark of Telcordia Technologies, Inc.

Dimensions in millimeters (inch) unless otherwise stated
### A5 Flat Rod Systems
Rods, Guides and Keepers

- Modular actuators to suit multiple latch families using A5 flat rods

#### Standard Hole Detail

- Round: Ø 5.5 (.22) 7.5 (.3)
- Square: 101.5 (4)
- Lantern: 7.5 (.3)

#### Others available upon request

- Rod Guide A5-F90-71
- Rod Keeper A5-F80-69

---

#### Rod Assembly Part Number

<table>
<thead>
<tr>
<th>Rod Style</th>
<th>Rod Assembly Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>F20 Mid Roller</td>
</tr>
<tr>
<td>3</td>
<td>F30 Offset with Roller</td>
</tr>
<tr>
<td>5</td>
<td>F50 Offset Plate with Roller</td>
</tr>
</tbody>
</table>

#### Rod Guide A5-F90-71

<table>
<thead>
<tr>
<th>Adapter Type</th>
<th>A5-F90-71</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>None (H3 with linear actuator)</td>
</tr>
<tr>
<td>1</td>
<td>Adapter - 3.25mm (0.13) (H3 Latches)</td>
</tr>
<tr>
<td>2</td>
<td>Adapter - 7.8 (0.31) Offset (92 Latches)</td>
</tr>
<tr>
<td>3</td>
<td>Adapter - 17.25 (0.68) Offset (E5 Latches)</td>
</tr>
<tr>
<td>4</td>
<td>Adapter - -7.5 (0.30) Offset (Medium 62 Latches)</td>
</tr>
</tbody>
</table>

#### Flat Rod Actuator Plate Part Number

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>E5-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E5-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E5-9</td>
<td></td>
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<tr>
<td>62 Series M8 threaded shaft</td>
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<td>92 Series M10 threaded shaft</td>
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#### Adapter Type

- A = 3
- A = 1
- A = 4
- A = 2

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**Note:** Adapters are used with round hole type rods only.

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**Demand for A5 Rods, Guides and Keepers**

- Modular actuators to suit multiple latch families using A5 flat rods

**Flat Rod Actuators**

- Rod Assembly Part Number
- Rod Guide A5-F90-71
- Rod Keeper A5-F80-69

**Specifications**

- Dimensions in millimeters (inch) unless otherwise stated

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**Request Info**

1-800-453-1692

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