**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

Dimensions in millimeters (inch) unless otherwise stated

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

**Part Number**

<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</td>
</tr>
</tbody>
</table>

Dimensions in millimeters (inch) unless otherwise stated

www.southco.com/M3

*Measure your Grip from the latch mounting surface to the inside frame surface, with gasket compressed*
**M3 Compression System**

*Actuators • Lift handle*

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

**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**

- **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 347876 (three keys supplied)
  - 12 DIN lock CH751
  - 13 Push button
  - 16 Bellcore 216
  - 17 Bellcore electronics

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

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**Push-Button Handle**

---

**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

---

**Actuator**
<table>
<thead>
<tr>
<th>Door Thickness Range</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 5 (0 - .20)</td>
<td>M3-90</td>
</tr>
<tr>
<td>5 - 10 (.20 - .39)</td>
<td>M3-92</td>
</tr>
</tbody>
</table>

**Actuator with key-lock**
<table>
<thead>
<tr>
<th>Door Thickness Range</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 5 (0 - .20)</td>
<td>M3-91</td>
</tr>
<tr>
<td>5 - 10 (.20 - .39)</td>
<td>M3-93</td>
</tr>
</tbody>
</table>

**Sealing Gasket Part Number**
C5-82

---

Dimensions in millimeters (inch) unless otherwise stated
**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

---

**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

---

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

---

<table>
<thead>
<tr>
<th>Actuator</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paddle (includes bracket and screws)</td>
<td>M3-10</td>
</tr>
<tr>
<td>Paddle with key-lock (includes bracket and screws)</td>
<td>M3-17</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gasket Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental</td>
<td>M3-12</td>
</tr>
<tr>
<td>EMC</td>
<td>M3-13</td>
</tr>
</tbody>
</table>
### M3 Compression System

#### Actuators · Door edge lever · Concealed

- **Simple actuator for top or bottom of door**

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

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

**Part Number**
- Actuator only see table
- 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

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

---

**Door Edge Lever**

- Lever actuator (type B shown)

**Concealed**

- Hex socket actuator (with O-ring)

---

**Actuator**

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

**Actuator**

<table>
<thead>
<tr>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3-30</td>
</tr>
</tbody>
</table>

---

Go to [www.southco.com/M3](http://www.southco.com/M3) for complete details on variety, part numbers, installation and specification.
Hex Rod Length

<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:**

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

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

Dimensions in millimeters (inch) unless otherwise stated

[www.southco.com/M3](http://www.southco.com/M3)