56 Spring-Loaded Plunger
Flare-in style – Miniature, Small and Large

- Simplified positioning of sliding components
- Quick-release hinge for removable door
- Fast installation and removal of components
- Designate access with color

Material and Finish
End cap: Steel, zinc plated, chromate, plus sealer
Ferrule: Aluminum, natural
Stud: Steel, hardened, zinc plated, chromate, plus sealer
Knob: (Prism plungers only)
PC/ABS, UL94-V0 Rated
Spring: 300 series stainless steel, passivated

Installation Notes
Press with approximately 2,500 N (562 lbf) (Large and Small), 2,000 N (450 lbf) (Mini) until ferrule is flared into the countersink in the panel.
A solid back-up tool must be used for proper installation

Part Number
See table
Install Tool
Part number: 47-110 (Miniature)
56-7-TOOL (Large and Small)

Applications
Retractable Hinge
Positioning / Secondary Catch
Quick Installation

Flare-in style
Bright - Miniature and Small
Prism - Miniature and Small
Prism - Large

ACTUAL SIZE
Dimensions in millimeters (inch) unless otherwise stated

Specifying Prism Color
To indicate color, change the last three digits of the part number.
Example:
56-161-000, black
56-161-013, red

www.southco.com/56
56 Spring-Loaded Plunger
Press-in style – Miniature, Small and Large

- Simplified positioning of sliding components
- Quick-release hinge for removable door
- Fast installation and removal of components
- Designate access with color

Material and Finish
- End cap: Steel, zinc plated, chromate, plus sealer
- Ferrule and stud: Steel, (Large and Small hardened), zinc plated, chromate plus sealer
- Knob: (Prism plungers only) PC/ABS, black, UL94-V0 Rated
- Spring: 300 series stainless steel, passivated

Installation Notes
- Press knob with approximately 13,400 N (3000 lbf) (Large and Small), 8000 N (1800 lbf) (Mini) for steel, 6700 N (1500 lbf) (Large and Small), 5000 N (1124 lbf) (Mini) for aluminum panels until ferrule sits flush with panel. A solid back-up tool must be used for proper installation.

Part Number
- See table

Specifying Prism Color
- To indicate color, change the last three digits of the part number.
- Example: 56-161-000, black; 56-161-013, red

<table>
<thead>
<tr>
<th>Outer Panel Thickness</th>
<th>P</th>
<th>Size</th>
<th>Knob Style</th>
<th>Part Number</th>
<th>Hold-Open</th>
<th>Without</th>
<th>H-1</th>
<th>H-2</th>
<th>E</th>
<th>K</th>
<th>Ø J</th>
<th>Ø M</th>
<th>Ø D</th>
<th>Ø C</th>
<th>Ø R</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Min.</td>
<td>A Max.</td>
<td>4.4 (.17)</td>
<td>Mini</td>
<td></td>
<td></td>
<td>9.2 (.36)</td>
<td>12.9 (.51)</td>
<td>8.5 (.33)</td>
<td>13.6 (.54)</td>
<td>4.29 (.169)</td>
<td>6.6 (.26)</td>
<td>6.7 (.264)</td>
<td>8.4 (.328)</td>
<td>13 (.50)</td>
<td>MIN</td>
<td>4.5 (.18)</td>
</tr>
<tr>
<td>0.8 (.031)</td>
<td>1.5 (.06)</td>
<td>Mini</td>
<td></td>
<td>56-11-15</td>
<td>56-10-15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prism</td>
<td>56-111-000</td>
<td>56-110-000</td>
<td>9.9 (.39)</td>
<td>13.6 (.54)</td>
<td>9 (.354)</td>
<td>14.3 (.56)</td>
<td>6.4 (.250)</td>
<td>8.26 (.325)</td>
<td>6.4 (.250)</td>
<td>13 (.50)</td>
<td>MIN</td>
<td>8.26 (.325)</td>
<td>MIN</td>
<td></td>
</tr>
<tr>
<td>1.52 (.06)</td>
<td>3.81 (.15)</td>
<td>Mini</td>
<td></td>
<td>56-61-15</td>
<td>56-60-15</td>
<td>12.2 (.48)</td>
<td>19.3 (.76)</td>
<td>11.5 (.45)</td>
<td>20.4 (.80)</td>
<td>6.33 (.249)</td>
<td>8.26 (.325)</td>
<td>6.4 (.250)</td>
<td>13 (.50)</td>
<td>MIN</td>
<td>8.26 (.325)</td>
<td>MIN</td>
</tr>
<tr>
<td>8.2 (.32)</td>
<td>13 (.51)</td>
<td>Small</td>
<td></td>
<td>56-161-000</td>
<td>56-160-000</td>
<td>13 (.51)</td>
<td>20 (.79)</td>
<td>13.3 (.52)</td>
<td>21.1 (.83)</td>
<td>6.4 (.250)</td>
<td>13 (.50)</td>
<td>MIN</td>
<td>8.26 (.325)</td>
<td>MIN</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dimensions in millimeters (inch) unless otherwise stated
56 Spring-Loaded Plunger
Thread-in style - Small and Large

- Simplified positioning of sliding components
- Quick-release hinge for removable door
- Fast installation and removal of components

Material and Finish
Knob: Aluminum
Stud: Low carbon steel, case hardened, zinc plated, chromate plus sealer
Shell and sleeve: Steel, zinc plated, chromate plus sealer
Spring: Stainless steel, passivated
Detent washer: Steel, zinc plated (Hold-open only)

Part Number
See table

Dimensions in millimeters (inch) unless otherwise stated

<table>
<thead>
<tr>
<th>Series</th>
<th>Panel Thickness</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum</td>
<td>Maximum</td>
</tr>
<tr>
<td>300</td>
<td>0.64 (.25)</td>
<td>1.52 (.060)</td>
</tr>
<tr>
<td>400</td>
<td>0.79 (.031)</td>
<td>3.18 (.125)</td>
</tr>
</tbody>
</table>

Part Number
See table

Other options available. For complete details on variety, part numbers, installation and specification, go to www.southco.com/56

1-800-453-1692
www.aboveboardelectronics.com
**TL Slide Latch**

**Steel • Slide to close**

- Slide to secure
- Vibration dampening

**Material and Finish**

Steel, zinc plated

---

**Surface Mount**

*Steel · Slide to close*

- Slide action clearance
- Vibration dampening

**Concealed Mount**

- Stand off post

---

**Panel Thickness** | **Required Number of Spacers**
---|---
1.17 - 2.03 (.046 - .080) | None
2.05 - 3.25 (.081 - .128) | One
3.28 - 4.06 (.129 - .160) | Two

Dimensions in millimeters (inch) unless otherwise stated

---

**Part Number**

See table

---

**Material** | **Latch** | **Keeper** | **Spacer**
---|---|---|---
Steel, zinc plated | TL-05-100-07 | TL-05-117-07 | TL-05-114-07
Stainless Steel | TL-05-100-52 | TL-05-117-52 | ~

---

*Other options available. For complete details on variety, part numbers, installation and specification, go to [www.southco.com/TL](http://www.southco.com/TL)*
**19 Swell Action Latch**

**Plastic**

- **Accommodates misalignment**
- **Vibration dampening**

**Material and Finish**

Nylon and glass-filled nylon black with SBR rubber bushing

**Performance Details**

<table>
<thead>
<tr>
<th>Frame thickness</th>
<th>Rated load (short term)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 (.059)</td>
<td>400 N (90 lbf)</td>
</tr>
<tr>
<td>2.5 (.098)</td>
<td>690 N (155 lbf)</td>
</tr>
<tr>
<td>3.2 (.125)</td>
<td>620 N (140 lbf)</td>
</tr>
<tr>
<td>4.8 (.190)</td>
<td>190 N (43 lbf)</td>
</tr>
</tbody>
</table>

**Door Thickness**

<table>
<thead>
<tr>
<th>Door Thickness</th>
<th>Use Washer?</th>
<th>Adjustment Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.7±.2 (.07±.01)</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>1.9 - 2.3 (.08 - .09)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>2.5±.2 (.10±.01)</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2.7 - 4.8 (.11 - .19)</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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

- Ø 2.4 (.09)
- 39 (1.53)
- 16.7 (.66)
- 11.5 (.45)
- 39 (1.53)
- 1.5 - 4.8 (.06 - .19) (see table)

**Part Number**

See table

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

[www.southco.com/19](http://www.southco.com/19)
19 Swell Action Latch
Stainless Steel · Zinc

- Accommodates misalignment
- Vibration dampening

Material and Finish
Zinc alloy, black powder coated, acetal and SBR rubber bushing
Stainless steel, natural or polished, acetal and SBR rubber bushing.

Performance Details

<table>
<thead>
<tr>
<th>Frame thickness</th>
<th>Rated load (short term)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2 (.05) to 3.2 (.13)</td>
<td>330 N (75 lbf)</td>
</tr>
<tr>
<td>3.2 (.13) to 4.8 (.19)</td>
<td>660 N (150 lbf)</td>
</tr>
<tr>
<td>4.8 (.19) to 6.4 (.25)</td>
<td>550 N (125 lbf)</td>
</tr>
<tr>
<td>6.4 (.25) and Up</td>
<td>220 N (50 lbf)</td>
</tr>
</tbody>
</table>

Installation Notes
Maximum tightening torque on mounting nut: 1.0 N·m (9 in-lbf)

Part Number
See table

Material | Part Number | Finish
--- | --- | ---
Zinc alloy | 19-14-10 | Black powder coated
Stainless Steel | 19-14-23 | Natural
Stainless Steel | 19-14-24 | Polished

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/19
19 Swell Action Latch
Plastic · Flush

- Flush low profile design
- Accommodates misalignment
- Vibration resistant

Material and Finish
Nylon black with stainless steel mounting bracket and SBR rubber bushing
Set tool: 1095 Steel, zinc plated

Performance Details

<table>
<thead>
<tr>
<th>Series</th>
<th>Frame thickness</th>
<th>Rated load (short term)</th>
</tr>
</thead>
<tbody>
<tr>
<td>19-83-10</td>
<td>0.5 - 3.2 (.016 - .13)</td>
<td>180 N (40lbf)</td>
</tr>
<tr>
<td>19-93-10</td>
<td>0.5 - 3.2 (.016 - .13)</td>
<td>440 N (100lbf)</td>
</tr>
</tbody>
</table>

19-83-10

- Frame thickness
- Frame or bracket outer surface of cup must contact frame or side mount bracket

19-93-10

- Frame thickness
- Frame or bracket outer surface of cup must contact frame or side mount bracket

Installation notes
Position bracket and retainer over stud and strike set tool. Adjust mounting nut to set latching tension.

Set tool

Tool part number: 17-10019-11

Part Number
See table

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/19
19 Swell Action Latch  
Plastic

- Accommodates misalignment  
- Vibration dampening

Material and Finish
Nylon and glass-filled nylon black with SBR rubber bushing

Performance Details

<table>
<thead>
<tr>
<th>Series</th>
<th>Frame thickness</th>
<th>Rated load (short term)</th>
</tr>
</thead>
<tbody>
<tr>
<td>19-81-10</td>
<td>0.5 - 3.2 (0.016 - 0.13)</td>
<td>180 N (40lbf)</td>
</tr>
<tr>
<td>19-91-10</td>
<td>0.5 - 3.2 (0.016 - 0.13)</td>
<td>440 N (100lbf)</td>
</tr>
</tbody>
</table>

Installation notes
Maximum tightening torque on mounting nut: 1 N•m (9 in•lbf)

Part Number
See table

Other options available. For complete details on variety, part numbers, installation and specification, go to www.southco.com/19

Accessories - Side mount bracket

Dimensions in millimeters (inch) unless otherwise stated

<table>
<thead>
<tr>
<th>Latch Part Number</th>
<th>Ø S</th>
<th>R</th>
<th>X</th>
<th>Z</th>
<th>Bracket Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>19-81-10 and 19-83-10</td>
<td>9.5 (.38)</td>
<td>27 (1.06)</td>
<td>20.5 (.81)</td>
<td>16.7 (.66)</td>
<td>19-0-15666-11</td>
</tr>
<tr>
<td>19-91-10 and 19-93-10</td>
<td>13.5 (.53)</td>
<td>19-0-15665-11</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
NY NYLATCH Panel Fastener
Push / pull style

- Simple reusable panel fastener
- Multiple styles and sizes
- Non-conductive and non-corrosive materials

Material and Finish
Grommet: Polycarbonate, black or white, or polysulfone, black
Plunger: Nylon, black or white, or polyester, black

Performance Details
Ultimate shear load:
4.8 (3/16): 200 N (45 lbf)
6.4 (1/4): 330 N (75 lbf)
7.9 (5/16): 667 N (150 lbf)
Max. operating temperature: 85°C (185°F)
Flammability rating: See part number selection

Dimensions in millimeters (inch) unless otherwise stated

<table>
<thead>
<tr>
<th>G Range</th>
<th>P Max.</th>
<th>C Max.</th>
<th>L Max.</th>
<th>Ø D</th>
<th>G Grommet</th>
<th>L Plunger</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.4 - 3.9 (.059 - .148)</td>
<td>1.0 (.042)</td>
<td>1.6 (.065)</td>
<td>8.4 (.330)</td>
<td>6.5 (.255)</td>
<td>-31</td>
<td>-32</td>
</tr>
<tr>
<td>2.0 - 4.5 (.079 - .176)</td>
<td>1.6 (.065)</td>
<td>2.0 (.079)</td>
<td>8.8 (.346)</td>
<td>-32</td>
<td>-32</td>
<td></td>
</tr>
<tr>
<td>2.8 - 5.3 (.112 - .209)</td>
<td>2.5 (.098)</td>
<td>2.5 (.098)</td>
<td>9.9 (.390)</td>
<td>-33</td>
<td>-33</td>
<td></td>
</tr>
<tr>
<td>3.9 - 6.3 (.152 - .249)</td>
<td>3.5 (.138)</td>
<td>1.3 (.050)</td>
<td>10.9 (.430)</td>
<td>-34</td>
<td>-34</td>
<td></td>
</tr>
</tbody>
</table>

3/16” Sizes Ø 4.8 (.188) ACTUAL SIZE

<table>
<thead>
<tr>
<th>G Range</th>
<th>P Max.</th>
<th>C Max.</th>
<th>L Max.</th>
<th>Ø D</th>
<th>G Grommet</th>
<th>L Plunger</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 - 3.8 (.059 - .148)</td>
<td>1.0 (.042)</td>
<td>2.0 (.079)</td>
<td>9.4 (.371)</td>
<td>8.5 (.336)</td>
<td>-41</td>
<td>-42</td>
</tr>
<tr>
<td>2.1 - 4.4 (.084 - .173)</td>
<td>1.6 (.065)</td>
<td>1.6 (.064)</td>
<td>9.8 (.386)</td>
<td>-42</td>
<td>-42</td>
<td></td>
</tr>
<tr>
<td>3.0 - 5.3 (.118 - .207)</td>
<td>2.5 (.098)</td>
<td>1.6 (.064)</td>
<td>10.9 (.430)</td>
<td>-43</td>
<td>-43</td>
<td></td>
</tr>
<tr>
<td>4.6 - 6.9 (.182 - .271)</td>
<td>4.1 (.162)</td>
<td>4.1 (.162)</td>
<td>12.5 (.494)</td>
<td>-44</td>
<td>-44</td>
<td></td>
</tr>
</tbody>
</table>

1/4” Sizes Ø 6.4 (.250)

<table>
<thead>
<tr>
<th>G Range</th>
<th>P Max.</th>
<th>C Max.</th>
<th>L Max.</th>
<th>Ø D</th>
<th>G Grommet</th>
<th>L Plunger</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 - 3.8 (.059 - .148)</td>
<td>1.0 (.042)</td>
<td>2.4 (.095)</td>
<td>9.4 (.371)</td>
<td>10.7 (.420)</td>
<td>-51</td>
<td>-52</td>
</tr>
<tr>
<td>2.1 - 4.4 (.084 - .173)</td>
<td>1.6 (.065)</td>
<td>2.0 (.080)</td>
<td>9.8 (.386)</td>
<td>-52</td>
<td>-52</td>
<td></td>
</tr>
<tr>
<td>3.0 - 5.3 (.118 - .207)</td>
<td>2.5 (.098)</td>
<td>2.0 (.080)</td>
<td>10.9 (.430)</td>
<td>-53</td>
<td>-53</td>
<td></td>
</tr>
<tr>
<td>4.6 - 6.9 (.182 - .271)</td>
<td>4.1 (.162)</td>
<td>4.1 (.162)</td>
<td>12.5 (.494)</td>
<td>-54</td>
<td>-54</td>
<td></td>
</tr>
<tr>
<td>5.8 - 8.1 (.230 - .319)</td>
<td>5.3 (.210)</td>
<td>5.3 (.210)</td>
<td>13.8 (.542)</td>
<td>-55</td>
<td>-55</td>
<td></td>
</tr>
</tbody>
</table>

5/16” Sizes Ø 7.9 (.313)

Dimensions in millimeters (inch) unless otherwise stated.
**NY NYLATCH** Panel Fastener  
**Push / pull style**

---

**Part Number Selection**

Order grommet and plunger separately

Plunger and grommet size code must match

---

### Grommet Part Number

<table>
<thead>
<tr>
<th>Size</th>
<th>Ø Removable Panel Hole</th>
<th>Ø Frame Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.8 (3/16)</td>
<td>4.57 - 4.65 (.180 - .183)</td>
<td>4.8 - 4.88 (.189 - .192)</td>
</tr>
<tr>
<td>6.4 (1/4)</td>
<td>6.04 - 6.15 (.238 - .242)</td>
<td>6.35 - 6.45 (.250 - .254)</td>
</tr>
<tr>
<td>7.9 (5/16)</td>
<td>7.47 - 7.59 (.294 - .299)</td>
<td>8.03 - 8.2 (.316 - .323)</td>
</tr>
</tbody>
</table>

- **S** Size code
  - 3 Ø 4.8 (.188)
  - 4 Ø 6.4 (.250)
  - 5 Ø 7.9 (.313)

- **M** Material and finish
  - 20 Polycarbonate (UL 94 V-2) black
  - 10 Polycarbonate (UL 94 V-2) white
  - 30 Polysulfone (UL 94 V-0) black

- **G** Grommet length
  - Grommet length number
  - (See grommet and plunger tables on page 154)

---

### Plunger Part Number

<table>
<thead>
<tr>
<th>Size</th>
<th>Ø Hole in removable panel</th>
<th>Ø Hole in frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.8 (3/16)</td>
<td>4.57 - 4.65 (.180 - .183)</td>
<td>4.8 - 4.88 (.189 - .192)</td>
</tr>
<tr>
<td>6.4 (1/4)</td>
<td>6.04 - 6.15 (.238 - .242)</td>
<td>6.35 - 6.45 (.250 - .254)</td>
</tr>
<tr>
<td>7.9 (5/16)</td>
<td>7.47 - 7.59 (.294 - .299)</td>
<td>8.03 - 8.2 (.316 - .323)</td>
</tr>
</tbody>
</table>

- **S** Size code
  - 3 Ø 4.8 (.188)
  - 4 Ø 6.4 (.250)
  - 5 Ø 7.9 (.313)

- **M** Material and finish
  - 50 Nylon (UL 94 V-2) black
  - 51 Nylon (UL 94 V-2) white
  - 60 Polyester (UL 94 V-0) black

- **H** Head style
  - 1 Easy grip
  - 3 Low profile
  - 4 Mini grip
  - (Refer to the plunger length table for the head style availability)

---

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