812 SERIES

Pneumatic Toggle Clamps | Product Overview

Features:
• Smallest of the pneumatic hold down series
• Pneumatic version of Model 201-U

Applications:
• Assembly
• Welding

Also Available:
See page MC-ACC-1 for spindle accessories
See page MC-PSC-38 for sensing options
High temperature version available upon request as Model 812-U-HT

812-U

Technical Information | Holding Capacities

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Holding Capacity</th>
<th>Maximum Exerting Force @ 5bar [72PSI]</th>
<th>Accessories (Supplied)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inner</td>
<td>Outer</td>
<td>Inner</td>
</tr>
<tr>
<td>812-U</td>
<td>440 N</td>
<td>245 N</td>
<td>613 N</td>
</tr>
</tbody>
</table>

†Per double stroke at 5bar [72PSI]

Max. Operating Temp: -23°C to 74°C [-10°F to 165°F]
Optional Sensors: 810156, 810158
Replacement Clamp Assembly: 812-U-LC
Replacement Cylinder Assembly: 812CYL

In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity. See Technical Appendix Section for details.
Note:
Model 812-U requires either 810156 or 810158 sensors. Two (2) sensors are required if detecting both open and closed positions. These sensors use 810156-1 (included with sensors) band clamp to mount the sensor to the cylinder wall.
802 SERIES

Pneumatic Toggle Clamps | Product Overview

Features:
- Pneumatic version of Model 202-U
- Sensor ready for T-slot or round sensors

Applications:
- Assembly
- Welding

Also Available:
- See page MC-ACC-1 for spindle accessories
- See page MC-PSC-38 for sensing options

High temperature version available upon request, add -HT to model number. Example: 802-U-HT

Technical Information | Holding Capacities

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Holding Capacity</th>
<th>Max. Exerting Force @ 5bar [72PSI]</th>
<th>Accessories (Supplied)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Weight</th>
<th>Bore Size</th>
<th>Air Consumption†</th>
<th>Port Size</th>
<th>Spindle Accessory</th>
<th>Flanged Washers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.52 lb</td>
<td>0.69 kg</td>
<td>[0.0006] 0.02</td>
<td>1/8 NPT G-1/8</td>
<td>202208-M</td>
<td>215105</td>
</tr>
</tbody>
</table>

†Per double stroke at 5bar [72PSI]

Max Cylinder Pressure: 10bar [145psig]*
Max Operating Temp: -10°C to 90°C [-14°F to 194°F]
Replacement Seal Kit: 802550-20-1-00
Replacement Clamp Assembly: 802-U-LC
Replacement Cylinder Assembly: 802CYL

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity. See Technical Appendix for details.

Sensor Accessories

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Sensor Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>810169</td>
<td>Round Reed Switch with Quick Disconnect</td>
</tr>
<tr>
<td>8EA-109-1</td>
<td>T-slot Reed Switch with Quick Disconnect</td>
</tr>
<tr>
<td>CABL-010</td>
<td>Quick Disconnect 2M Extension Cable</td>
</tr>
<tr>
<td>CABL-013</td>
<td>Quick Disconnect 5M Extension Cable</td>
</tr>
</tbody>
</table>

See Pneumatic Accessories section for more options.
Dimensions and technical information are subject to change without notice.
807 SERIES
Pneumatic Toggle Clamps | Product Overview

Features:
- Pneumatic version of Series 207 manual clamps
- Sensor ready for round or T-slot sensors.
- Built-in flow restriction eliminates need for external flow controls

Applications:
- Assembly
- Welding

Also Available:
See page MC-ACC-1 for spindle accessories
See page MC-PSC-38 for sensing options
High temperature version available upon request, add –HT to model number. Example: 807-U–HT

### Technical Information | Holding Capacities

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Holding Capacity</th>
<th>Maximum Exerting Force @ 5bar [72PSI]</th>
<th>Accessories (Supplied)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inner</td>
<td>Outer</td>
<td>Inner</td>
</tr>
<tr>
<td>807-U</td>
<td>[375 lbf]</td>
<td>[1670 N]</td>
<td>[275 lbf]</td>
</tr>
<tr>
<td>807-UE</td>
<td>[350 lbf]</td>
<td>[1160 N]</td>
<td>[540 lbf]</td>
</tr>
<tr>
<td>807-S</td>
<td>[500 lbf]</td>
<td>[2220 N]</td>
<td>[260 lbf]</td>
</tr>
<tr>
<td>807-SE</td>
<td>[500 lbf]</td>
<td>[2220 N]</td>
<td>[260 lbf]</td>
</tr>
</tbody>
</table>

†Per double stroke at 5bar [72PSI]

Max Cylinder Pressure: 10bar [145psig]*
Max Operating Temp: -10°C to 90°C [-14°F to 194°F]
Replacement Seal Kit: 802450-32-1-00
Replacement Clamp Assembly: 807-U-LC, 807-S-LC
Replacement Cylinder Assembly: 807CYL

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity. See Technical Appendix for details.

Sensor Accessories

<table>
<thead>
<tr>
<th>Sensor Accessories</th>
<th>Item Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round Reed Switch with Quick Disconnect</td>
<td>810169</td>
</tr>
<tr>
<td>T-slot Reed Switch with Quick Disconnect</td>
<td>8EA-109-1</td>
</tr>
<tr>
<td>Quick Disconnect 2M Extension Cable</td>
<td>CABL-010</td>
</tr>
<tr>
<td>Quick Disconnect 5M Extension Cable</td>
<td>CABL-013</td>
</tr>
</tbody>
</table>

See Pneumatic Accessories section for more options
810 SERIES

Pneumatic Toggle Clamps | Product Overview

Features:
- Pneumatic version of Series 210 manual clamps
- Sensor ready for round or T-slot style sensors
- Built-in flow restriction eliminates need for external flow controls

Applications:
- Assembly
- Welding

Also Available:
See page MC-ACC-1 for spindle accessories
See page MC-PSC-38 for sensing options

Technical Information | Holding Capacities

<table>
<thead>
<tr>
<th>Model</th>
<th>Inner</th>
<th>Outer</th>
<th>Inner</th>
<th>Outer</th>
<th>Weight</th>
<th>Bore Size</th>
<th>Air Consumption†</th>
<th>Port Size</th>
<th>Spindle Accessory</th>
<th>Flanged Washers</th>
<th>Bolt Retainer</th>
</tr>
</thead>
<tbody>
<tr>
<td>810-U</td>
<td>600 lbf</td>
<td>2670 N</td>
<td>290 lbf</td>
<td>1290 N</td>
<td>856 lbf</td>
<td>3834 N</td>
<td>407 lbf</td>
<td>1823 N</td>
<td>[4.07lb]</td>
<td>1,85kg</td>
<td>[1.57]</td>
</tr>
<tr>
<td>810-UE</td>
<td>750 lbf</td>
<td>3340 N</td>
<td>500 lbf</td>
<td>2220 N</td>
<td>1020 lbf</td>
<td>3143 N</td>
<td>702 lbf</td>
<td>1823 N</td>
<td>[1.57]</td>
<td>40</td>
<td>0.029</td>
</tr>
<tr>
<td>810-S</td>
<td>750 lbf</td>
<td>3340 N</td>
<td>500 lbf</td>
<td>2220 N</td>
<td>1020 lbf</td>
<td>3143 N</td>
<td>702 lbf</td>
<td>1823 N</td>
<td>[1.57]</td>
<td>40</td>
<td>0.029</td>
</tr>
</tbody>
</table>

†Per double stroke at 5bar [72PSI]

Max Cylinder Pressure: 10bar [145psig]*
Max Operating Temp: -10°C to 90°C [-14°F to 194°F]
Replacement Seal Kit: 810450-40-1-00
Replacement Clamp Assembly: 810-U-LC, 810-S-LC
Replacement Cylinder Assembly: 810CYL

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity.

Sensor Accessories
- Round Reed Switch with Quick Disconnect 810169
- T-slot Reed Switch with Quick Disconnect 8EA-109-1
- Quick Disconnect 2M Extension Cable CABL-010
- Quick Disconnect 5M Extension Cable CABL-013

See Pneumatic Accessories section for more options
846 SERIES

Pneumatic Toggle Clamps | Product Overview

Features:
- Similar in size to 807 but with higher holding capacity
- Large, solid clamping arm is easily modified to suit application requirements
- Sensor ready for round or T-slot style sensors

Applications:
- Assembly
- Welding

Also Available:
See page MC-PSC-38 for sensing options

Technical Information | Holding Capacities

<table>
<thead>
<tr>
<th>Model</th>
<th>Inner</th>
<th>Outer</th>
<th>Inner</th>
<th>Outer</th>
<th>Weight (N)</th>
<th>Bore Size (mm)</th>
<th>Max. Exerting Force @ 5bar [72PSI]</th>
<th>Air Consumption† (dm³ [ft³])</th>
<th>Port Size</th>
</tr>
</thead>
</table>

†Per double stroke at 5bar [72PSI]

This item is available upon request.

Max Cylinder Pressure: 10bar [145psig]*
Max Operating Temp: -10°C to 90°C [-14°F to 194°F]
Replacement Seal Kit: 810450-40-1-00
Replacement Clamp Assembly: 846-LC
Replacement Cylinder Assembly: 846CYL

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity. See Technical Appendix Section for details.

Sensor Accessories

<table>
<thead>
<tr>
<th>Sensor Accessories</th>
<th>Item Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round Reed Switch with Quick Disconnect</td>
<td>810169</td>
</tr>
<tr>
<td>T-slot Reed Switch with Quick Disconnect</td>
<td>8EA-109-1</td>
</tr>
<tr>
<td>Quick Disconnect 2M Extension Cable</td>
<td>CABL-010</td>
</tr>
<tr>
<td>Quick Disconnect 5M Extension Cable</td>
<td>CABL-013</td>
</tr>
</tbody>
</table>

See Pneumatic Accessories section for more options
Dimensions and technical information are subject to change without notice.
847 SERIES

Pneumatic Toggle Clamps | Product Overview

Features:

- Pneumatic version of Series 247 manual clamps
- Switch ready for Ø4mm or 6,5mmX5mm sensors
- Built-in flow restriction eliminates need for external flow controls

Applications:

- Assembly
- Welding

Also Available:

- See page MC-ACC-1 for spindle accessories
- See page MC-PSC-38 for sensing options

847-U  847-S

Technical Information | Holding Capacities

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Holding Capacity</th>
<th>Max. Exerting Force @ 5bar [72PSI]</th>
<th>Accessories (Supplied)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inner</td>
<td>Outer</td>
<td>Inner</td>
</tr>
</tbody>
</table>

†Per double stroke at 5bar [72PSI]

Max Cylinder Pressure: 10bar [145psig] *
Max Operating Temp: -10°C to 90°C [-14°F to 194°F]
Replacement Seal Kit: 847450-50-1-00
Replacement Clamp Assembly: 847-U-LC, 847-S-LC
Replacement Cylinder Assembly: 847CYL

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity. See Technical Appendix Section for details.

Sensor Accessories

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Round Reed Switch with Quick Disconnect 810169</td>
</tr>
<tr>
<td>T-slot Reed Switch with Quick Disconnect 8EA-109-1</td>
</tr>
<tr>
<td>Quick Disconnect 2M Extension Cable CABL-010</td>
</tr>
<tr>
<td>Quick Disconnect 5M Extension Cable CABL-013</td>
</tr>
</tbody>
</table>

See Pneumatic Accessories section for more options

Dimensions and technical information are subject to change without notice
847 SERIES
Pneumatic Toggle Clamps | Dimensions

Dimensions and technical information are subject to change without notice.
8007 SERIES

Pneumatic Toggle Clamps | Product Overview

Features:
- Hardened pins and bushing at all pivot points for long life cycle
- Solid clamping bar may be modified to suit application requirements
- Sensor ready for round or T-slot style sensors

Applications:
- Assembly
- Welding

Also Available:
See page MC-PSC-38 for sensing options

8007-E  8007-EHL  8007-EHR

Technical Information | Holding Capacities

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Holding Capacity</th>
<th>Max. Exerting Force @ 5bar [72PSI]</th>
<th>Bore Size</th>
<th>Air Consumption†</th>
<th>Port Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inner</td>
<td>Outer</td>
<td>Inner</td>
<td>Outer</td>
<td>Weight</td>
</tr>
<tr>
<td>8007-E</td>
<td>[830 lbf]</td>
<td>[405 lbf]</td>
<td>[606 lbf]</td>
<td>[225 lbf]</td>
<td>1,6kg [3.53lb]</td>
</tr>
<tr>
<td>8007-EHL</td>
<td>3700 N</td>
<td>1800 N</td>
<td>2700 N</td>
<td>1000 N</td>
<td>1,7kg [3.75lb]</td>
</tr>
<tr>
<td>8007-EHR</td>
<td>8007-EHL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

†Per double stroke at 5bar [72PSI]

Max Cylinder Pressure: 10bar [145psig]*
Max Operating Temp: -10°C to 90°C [-14°F to 194°F]
Replacement Clamp Assembly: 8007-LC

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity. See Technical Appendix Section for details.

Sensor Accessories

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<thead>
<tr>
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<th>Item Number</th>
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<tbody>
<tr>
<td>Round Reed Switch with Quick Disconnect</td>
<td>810169</td>
</tr>
<tr>
<td>T-slot Reed Switch with Quick Disconnect</td>
<td>8EA-109-1</td>
</tr>
<tr>
<td>Quick Disconnect 2M Extension Cable</td>
<td>CABL-010</td>
</tr>
<tr>
<td>Quick Disconnect 5M Extension Cable</td>
<td>CABL-013</td>
</tr>
</tbody>
</table>

See Pneumatic Accessories section for more options

Dimensions and technical information are subject to change without notice
Dimensions and technical information are subject to change without notice.
858 SERIES

Pneumatic Toggle Clamps | Product Overview

Features:
• Hardened pins and bushing at all pivot points for long lifecycle
• Large, solid clamping arm is easily modified to suit application requirements
• Sensor ready for round or T-slot style sensors

Applications:
• Assembly
• Welding

Also Available:
See page MC-PSC-38 for sensing options

Technical Information | Holding Capacities

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Holding Capacity</th>
<th>Max. Exerting Force @ 5bar [72PSI]</th>
</tr>
</thead>
<tbody>
<tr>
<td>858</td>
<td>[4,000 lbf]</td>
<td>[17800 N]</td>
</tr>
<tr>
<td>858-E</td>
<td>[2,000 lbf]</td>
<td>[8900 N]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Inner</th>
<th>Outer</th>
<th>Inner</th>
<th>Outer</th>
<th>Weight</th>
<th>Bore Size</th>
<th>Air Consumption†</th>
<th>Port Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>858</td>
<td>17800 N</td>
<td>8900 N</td>
<td>6857 N</td>
<td>3585 N</td>
<td>7.31kg</td>
<td>[2.48] 63</td>
<td>[0.109] 3.08</td>
<td>1/4 NPT</td>
</tr>
<tr>
<td>858-E</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>G-1/4</td>
</tr>
</tbody>
</table>

†Per double stroke at 5bar [72PSI]

Max Cylinder Pressure: 10bar [145psig]*
Max Operating Temp: -10°C to 90°C [-14°F to 194°F]
Replacement Seal Kit: 850450-63-1-00
Replacement Clamp Assembly: 858-LC
Replacement Cylinder Assembly: 858CYL

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity. See Technical Appendix Section for details.

Sensor Accessories
- Round Reed Switch with Quick Disconnect: 810169
- T-slot Reed Switch with Quick Disconnect: 8EA-109-1
- Quick Disconnect 2M Extension Cable: CABL-010
- Quick Disconnect 5M Extension Cable: CABL-013

See Pneumatic Accessories section for more options
## 8021, 8071 SERIES

**Pneumatic Toggle Clamps | Product Overview**

### Features:
- Enclosed clamp for dirty environments such as spot and MIG welding
- Non-pivoting cylinder can be hard-piped into fixtures
- Sensor ready for round or T-slot style sensors

### Applications:
- Assembly
- Welding

### Also Available:
See page MC-ACC-1 for spindle accessories
See page MC-PSC-38 for sensing options

### Technical Information | Holding Capacities

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Holding Capacity</th>
<th>Max. Exerting Force @ 5bar [72PSI]</th>
<th>Accessories (Supplied)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8021-UE</td>
<td>[255 lbf] 1335 N</td>
<td>[100 lbf] 449 N</td>
<td>Flanged Washer 8021122</td>
</tr>
<tr>
<td>8071-UE</td>
<td>[310 lbf] 1380 N</td>
<td>[283 lbf] 1267 N</td>
<td></td>
</tr>
</tbody>
</table>

† This item is available upon request. *Per double stroke at 5bar [72PSI]

### Technical Information
- **Max Cylinder Pressure:** 10bar [145psig]*
- **Max Operating Temp:** -10°C to 90°C [-14°F to 194°F]
- **Replacement Seal Kit:** 8021: 802450-32-1-00
  8071: 810450-40-1-00

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity. See Technical Appendix Section for details.

### Sensor Accessories

<table>
<thead>
<tr>
<th>Item Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>810169</td>
</tr>
<tr>
<td>8EA-109-1</td>
</tr>
<tr>
<td>CABL-010</td>
</tr>
<tr>
<td>CABL-013</td>
</tr>
</tbody>
</table>

See Pneumatic Accessories section for more options
8021, 8071 SERIES
Pneumatic Toggle Clamps | Dimensions | -UE

Dimensions and technical information are subject to change without notice
817, 827 SERIES

Pneumatic Toggle Clamps | Product Overview

**Features:**
- Dual mounting surfaces for maximum flexibility
- Sensor ready for round or T-slot style sensors
- Built-in flow restriction eliminates need for external flow controls

**Applications:**
- Assembly
- Welding

**Also Available:**
- See page MC-ACC-1 for spindle accessories
- See page MC-PSC-38 for sensing options

---

**Technical Information | Holding Capacities**

<table>
<thead>
<tr>
<th>Model</th>
<th>Inner</th>
<th>Outer</th>
<th>Inner</th>
<th>Outer</th>
<th>Weight</th>
<th>Bore Size</th>
<th>Air Consumption†</th>
<th>Port Size</th>
<th>Spindle Accessory</th>
<th>Flanged Washers</th>
<th>Bolt Retainer</th>
</tr>
</thead>
<tbody>
<tr>
<td>817-U</td>
<td>1670 N</td>
<td>[375 lbf]</td>
<td>1648 N</td>
<td>[369 lbf]</td>
<td>1.05kg</td>
<td>[1.26]</td>
<td>[0.015]</td>
<td>1/8NPT G-1/8</td>
<td>225208-M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>827-U</td>
<td>1735 N</td>
<td>[500 lbf]</td>
<td>1383 N</td>
<td>[309 lbf]</td>
<td>1.57</td>
<td>[0.029]</td>
<td>235106</td>
<td>G-1/8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>827-UE</td>
<td>2200 N</td>
<td>[600 lbf]</td>
<td>1383 N</td>
<td>[309 lbf]</td>
<td>1.57</td>
<td>[0.029]</td>
<td>235106</td>
<td>G-1/8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>827-S</td>
<td>1470 N</td>
<td>[500 lbf]</td>
<td>1257 N</td>
<td>[281 lbf]</td>
<td>1.57</td>
<td>[0.029]</td>
<td>210114</td>
<td>G-1/8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>827-SE</td>
<td>3110 N</td>
<td>[700 lbf]</td>
<td>1257 N</td>
<td>[281 lbf]</td>
<td>1.57</td>
<td>[0.029]</td>
<td>210114</td>
<td>G-1/8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

†Per double stroke at 5bar [72PSI]

**Max Cylinder Pressure:** 10bar [145psig]*
**Max Operating Temp:** -10°C to 90°C [-14°F to 194°F]
**Replacement Seal Kit:** 817: 802450-32-1-00
827: 810450-40-1-00
**Replacement Clamp Assembly:** 817-U-LC, 817-S-LC, 827-U-LC, 827-S-LC
**Replacement Cylinder Assembly:** 817: 807CYL, 827: 810CYL

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity. See Technical Appendix Section for details.

**Sensor Accessories**
- Round Reed Switch with Quick Disconnect 810169
- T-slot Reed Switch with Quick Disconnect 8EA-109-1
- Quick Disconnect 2M Extension Cable CABL-010
- Quick Disconnect 5M Extension Cable CABL-013

See Pneumatic Accessories section for more options
817, 827 SERIES

Pneumatic Toggle Clamps | Dimensions | -U/-UE/-S/-SE

**Mounting Options:**
Use two bolts in the “side” mounting holes, to secure mounting bracket, when “top” mounting.

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>A2</th>
<th>A3</th>
<th>A4</th>
<th>B</th>
<th>B2</th>
<th>B3</th>
<th>C</th>
<th>C1</th>
<th>C2</th>
<th>C3</th>
<th>C4</th>
</tr>
</thead>
<tbody>
<tr>
<td>817-U</td>
<td>0.63</td>
<td>0.44</td>
<td>0.60</td>
<td>1</td>
<td>0.63</td>
<td>1.00</td>
<td>2.44</td>
<td>1.00</td>
<td>2.69</td>
<td>0.63</td>
<td>0.12</td>
<td>1.25</td>
</tr>
<tr>
<td>817-UE</td>
<td>1</td>
<td>11,2</td>
<td>15,1</td>
<td></td>
<td>16</td>
<td>25,4</td>
<td>62</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>817-S</td>
<td>0.63</td>
<td>0.60</td>
<td>1</td>
<td></td>
<td>0.63</td>
<td>1.00</td>
<td>2.44</td>
<td>1.00</td>
<td>2.69</td>
<td>0.63</td>
<td>0.12</td>
<td>1.25</td>
</tr>
<tr>
<td>827-U</td>
<td>1.25</td>
<td>0.66</td>
<td>16,8</td>
<td>1.25</td>
<td>31,8</td>
<td>1.75</td>
<td>44.45</td>
<td>3.08</td>
<td>44,45</td>
<td>3.89</td>
<td>0.79</td>
<td>0.12</td>
</tr>
<tr>
<td>827-UE</td>
<td>31,8</td>
<td>12,8</td>
<td>7,9</td>
<td>31,8</td>
<td>19,2</td>
<td>44,45</td>
<td>99,2</td>
<td>77,2</td>
<td>98,8</td>
<td>99,2</td>
<td>1.76</td>
<td>45,3</td>
</tr>
<tr>
<td>827-S</td>
<td>0.63</td>
<td>0.60</td>
<td>1</td>
<td></td>
<td>0.63</td>
<td>1.00</td>
<td>2.44</td>
<td>1.00</td>
<td>2.69</td>
<td>0.63</td>
<td>0.12</td>
<td>1.25</td>
</tr>
<tr>
<td>827-SE</td>
<td>1.25</td>
<td>0.66</td>
<td>16,8</td>
<td>1.25</td>
<td>31,8</td>
<td>1.75</td>
<td>44.45</td>
<td>3.08</td>
<td>44,45</td>
<td>3.89</td>
<td>0.79</td>
<td>0.12</td>
</tr>
</tbody>
</table>

Dimensions and technical information are subject to change without notice.

MC-PTC | 20
# 868 SERIES

## Pneumatic Toggle Clamps | Product Overview

### Features:
- Hardened pins and bushing at all pivot points for long lifecycle
- Large, solid clamping arm is easily modified to suit application requirements
- Sensor ready for round or T-slot style sensors

### Applications:
- Assembly
- Welding

### Also Available:
See page MC-PSC-38 for sensing options

---

## Technical Information | Holding Capacities

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Holding Capacity</th>
<th>Max. Exerting Force @ 5bar [72PSI]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inner (lbf)</td>
<td>Outer (lbf)</td>
</tr>
<tr>
<td>868</td>
<td>4000</td>
<td>17800</td>
</tr>
<tr>
<td>868-E</td>
<td>2400</td>
<td>10675</td>
</tr>
<tr>
<td></td>
<td>Inner (N)</td>
<td>Outer (N)</td>
</tr>
<tr>
<td>868</td>
<td>1704</td>
<td>7637</td>
</tr>
<tr>
<td>868-E</td>
<td>800</td>
<td>3585</td>
</tr>
<tr>
<td></td>
<td>Weight (kg)</td>
<td>Bore Size (mm)</td>
</tr>
<tr>
<td>868</td>
<td>17.0</td>
<td>63</td>
</tr>
<tr>
<td>868-E</td>
<td>7.7</td>
<td>63</td>
</tr>
<tr>
<td></td>
<td>Air Consumption† dm³ [ft³]</td>
<td></td>
</tr>
<tr>
<td>868</td>
<td>0.109</td>
<td>3,08</td>
</tr>
<tr>
<td>868-E</td>
<td>0.03</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Port Size</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1/4 NPT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>G-1/4</td>
<td></td>
</tr>
</tbody>
</table>

*Per double stroke at 5bar [72PSI]

### Max Cylinder Pressure:
- 10bar [145psig]*

### Max Operating Temp:
- -10°C to 90°C [-14°F to 194°F]

### Replacement Seal Kit:
- 850450-63-1-00

### Replacement Clamp Assembly:
- 868-LC

### Replacement Cylinder Assembly:
- 868CYL

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity. See Technical Appendix Section for details.

### Sensor Accessories

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Item Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round Reed Switch with Quick Disconnect</td>
<td>810169</td>
</tr>
<tr>
<td>T-slot Reed Switch with Quick Disconnect</td>
<td>8EA-109-1</td>
</tr>
<tr>
<td>Quick Disconnect 2M Extension Cable</td>
<td>CABL-010</td>
</tr>
<tr>
<td>Quick Disconnect 5M Extension Cable</td>
<td>CABL-013</td>
</tr>
</tbody>
</table>

See Pneumatic Accessories section for more options

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Dimensions and technical information are subject to change without notice
868 SERIES
Pneumatic Toggle Clamps | Dimensions

Dimensions and technical information are subject to change without notice

868 Series
Pneumatic Toggle Clamps | Dimensions
803 SERIES

Pneumatic Toggle Clamps | Product Overview

Features:
- Pneumatic version of Model 603 manual straight line action clamp
- Sensor ready for round or T-slot style sensors

Applications:
- Assembly
- Welding

Also Available:
See page MC-ACC-1 for spindle accessories
See page MC-PSC-38 for sensing options
High temperature version available
Upon Request, add -HT to model number. Example: 803-U-HT

803
803-ME

Technical Information | Holding Capacities | Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Holding Capacity</th>
<th>Maximum Exerting Force @ 5bar [72PSI]</th>
<th>Plunger Travel</th>
<th>Plunger Thread</th>
<th>Weight</th>
<th>Bore Size</th>
<th>Air Consumption† dm³ [ft³]</th>
<th>Port Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>803</td>
<td>[600 lbf] 2670 N</td>
<td>[675 lbf] 3015 N</td>
<td>[0.75] 19.1</td>
<td>5/16-18 M8</td>
<td>[1.26] 32</td>
<td>[0.015] 0.42</td>
<td>1/8 NPT</td>
<td>G-1/8</td>
</tr>
<tr>
<td>803-ME</td>
<td>M8 G-1/8</td>
<td></td>
<td></td>
<td>M8</td>
<td>0.84kg</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

†Per double stroke at 5bar [72PSI]

Max Cylinder Pressure: 10bar [145psig]
Max Operating Temp: -10°C to 90°C [-14°F to 194°F]
Replacement Seal Kit: 802450-32-1-00
Replacement Clamp Assembly: 803-LC, 803-M-LC
Replacement Cylinder Assembly: 807CYL

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity.
See Technical Appendix Section for details.

Sensor Accessories

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Round Reed Switch with Qk Disconnect</th>
<th>810169</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T-slot Reed Switch with Qk Disconnect</td>
<td>8EA-109-1</td>
</tr>
<tr>
<td></td>
<td>Quick Disconnect 2M Extension Cable</td>
<td>CABL-010</td>
</tr>
<tr>
<td></td>
<td>Quick Disconnect 5M Extension Cable</td>
<td>CABL-013</td>
</tr>
</tbody>
</table>

See Pneumatic Accessories section for more options

Dimensions and technical information are subject to change without notice.

Dimensions and technical information are subject to change without notice.
Features:
- Fully enclosed straight line action clamp for the dirtiest environments
- Compact design with high holding capacity
- Sensor ready for round style sensors

Applications:
- Assembly
- Welding

Also Available:
See page MC-ACC-1 for spindle accessories
See page MC-PSC-38 for sensing options

Technical Information | Holding Capacities | Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Holding Capacity</th>
<th>Maximum Exerting Force @ 5bar [72PSI]</th>
<th>Plunger Travel</th>
<th>Plunger Thread</th>
<th>Weight</th>
<th>Bore Size</th>
<th>Air Consumption†</th>
<th>Port Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>8031</td>
<td>2000 lbf (8900 N)</td>
<td>731 lbf (3285 N)</td>
<td>0.75</td>
<td>M8</td>
<td>1.17 lb</td>
<td>0.26</td>
<td>0.006 dm³ [ft³]</td>
<td>1/8 NPT</td>
</tr>
</tbody>
</table>

Max Cylinder Pressure: 10bar [145psig]*
Max Operating Temp: -10°C to 90°C [-14°F to 194°F]
*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity. See Technical Appendix Section for details.

Sensor Accessories
- Round Reed Switch with Quick Disconnect 810169
- Quick Disconnect 2M Extension Cable CABL-010
- Quick Disconnect 5M Extension Cable CABL-013
See Pneumatic Accessories section for more options

Dimensions and technical information are subject to change without notice
830 SERIES
Pneumatic Toggle Clamps | Product Overview

Features:
- Pneumatic version of Model 630 manual straight line action clamp
- Sensor ready for round or T-slot style sensors
- Built-in flow restriction eliminates need for external flow controls

Applications:
- Assembly
- Welding

Also Available:
- See page MC-ACC-1 for spindle accessories
- See page MC-PSC-38 for sensing options

Technical Information | Holding Capacities | Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Holding Capacity</th>
<th>Maximum Exerting Force @ 5bar [72PSI]</th>
<th>Plunger Travel</th>
<th>Plunger Thread</th>
<th>Weight</th>
<th>Bore Size</th>
<th>Air Consumption†</th>
<th>Port Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>830</td>
<td>[2500 lbf]</td>
<td>[800 lbf]</td>
<td>[0.75]</td>
<td>[3/8-16]</td>
<td>2.79kg</td>
<td>[1.57]</td>
<td>[0.029]</td>
<td>1/8 NPT</td>
</tr>
<tr>
<td>830-ME</td>
<td>11100 N</td>
<td>3582 N</td>
<td>19.1</td>
<td>M10</td>
<td>40</td>
<td>0.83</td>
<td></td>
<td>G-1/8</td>
</tr>
</tbody>
</table>

†Per double stroke at 5bar [72PSI]

Max Cylinder Pressure: 10bar [145psig]
Max Operating Temp: -10°C to 90°C [-14°F to 194°F]
Replacement Seal Kit: 810450-40-1-00
Replacement Clamp Assembly: 830-LC, 830-M-LC
Replacement Cylinder Assembly: 810CYL

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity. See Technical Appendix Section for details.

Sensor Accessories
- Round Reed Switch with Quick Disconnect
- T-slot Reed Switch with Quick Disconnect
- Quick Disconnect 2M Extension Cable
- Quick Disconnect 5M Extension Cable

See Pneumatic Accessories section for more options

Max Cylinder Pressure: 10bar [145psig]
Max Operating Temp: -10°C to 90°C [-14°F to 194°F]
Replacement Seal Kit: 810450-40-1-00
Replacement Clamp Assembly: 830-LC, 830-M-LC
Replacement Cylinder Assembly: 810CYL

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity. See Technical Appendix Section for details.

Sensor Accessories
- Round Reed Switch with Quick Disconnect
- T-slot Reed Switch with Quick Disconnect
- Quick Disconnect 2M Extension Cable
- Quick Disconnect 5M Extension Cable

See Pneumatic Accessories section for more options

Dimensions and technical information are subject to change without notice
**Features:**
- Pneumatic version of Model 650 manual straight line action clamp
- Sensor ready for round or T-slot style sensors
- Built-in flow restriction eliminates need for external flow controls

**Applications:**
- Assembly
- Welding
- Light press operations

**Also Available:**
- See page MC-ACC-1 for spindle accessories
- See page MC-PSC-38 for sensing options

---

### Technical Information | Holding Capacities | Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Holding Capacity</th>
<th>Maximum Exerting Force @ 5bar [72PSI]</th>
<th>Plunger Travel</th>
<th>Plunger Thread</th>
<th>Weight</th>
<th>Bore Size</th>
<th>Air Consumption</th>
<th>Port Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>850-ME</td>
<td>M16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>G-1/4</td>
</tr>
</tbody>
</table>

- This item is available upon request.
- †Per double stroke at 5bar [72PSI]

**Max Cylinder Pressure:** 10bar [145psig]
**Max Operating Temp:** -10°C to 90°C [-14°F to 194°F]
**Replacement Seal Kit:** 850450-63-1-00
**Replacement Clamp Assembly:** 850-LC, 850-M-LC
**Replacement Cylinder Assembly:** 868CYL

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamp’s holding capacity. See Technical Appendix Section for details.

**Sensor Accessories**
- Round Reed Switch with Quick Disconnect 810169
- T-slot Reed Switch with Quick Disconnect 8EA-109-1
- Quick Disconnect 2M Extension Cable CABL-010
- Quick Disconnect 5M Extension Cable CABL-013

See Pneumatic Accessories section for more options

---

Dimensions and technical information are subject to change without notice
800, 1200 SERIES
Pneumatic Toggle Clamps | Product Overview

Features:
- Low profile and compact for mounting in tight spaces
- Uniform clamping force throughout full stroke
- Accommodates variable workpiece thickness
- Single acting - air advance, spring return

Applications:
- Assembly
- Welding
- Light machining

How it Works:
1. Clamp arm retracts fully for loading and unloading.
2. Clamp arm moves straight forward.
3. Clamp arm pivots down to hold workpiece.

Technical Information | Holding Capacities | Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Inlet Pressure [bar]</th>
<th>Exerting Force</th>
<th>Max. Pressure at Max. Mechanical Advantage [bar]</th>
<th>Clamping Range</th>
<th>Weight</th>
<th>Port Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>[70<del>150] 4,8</del>10,3</td>
<td>[850<del>1500 lb] 3780</del>6670N</td>
<td>[0.09] 2,3</td>
<td>[0.09] 2,3</td>
<td>[2.50lb] 1,13kg</td>
<td>1/4 NPT</td>
</tr>
<tr>
<td>800-E</td>
<td>[650<del>1200 lb] 2890</del>5340N</td>
<td>[0.16] 4,0</td>
<td>[0.16] 4,0</td>
<td>[2.00lb] 0,9kg</td>
<td>1/4 NPT</td>
<td></td>
</tr>
<tr>
<td>1200</td>
<td>[750<del>1600 lb] 3340</del>7120N</td>
<td>[0.25] 6,4</td>
<td>[0.25] 6,4</td>
<td>[4.00lb] 1,81kg</td>
<td>1/4 NPT</td>
<td></td>
</tr>
<tr>
<td>1200-E</td>
<td>[550<del>1200 lb] 2450</del>5340N</td>
<td>[0.38] 9,6</td>
<td>[0.38] 9,6</td>
<td>[6.40lb] 2,94kg</td>
<td>1/4 NPT</td>
<td></td>
</tr>
</tbody>
</table>

Note: For use with pneumatic power only. This is a single acting device (air clamp, spring return), a 3-way air valve required for control.

Repair Kits: 800-00, 1200-00

Model A B C D E F G H K L M N P Q R MNTG HOLES
800 [1.63] 41,4 [4.81] 122,8 [2.72] 69,1 [0.25] 6,4 [2.21] 56,1 [0.25] 6,4 [3.13] 79,5 [1.19] 30,2 [0.50] 12,7 [2.31] 58,37 [1.50] 38,1 - [0.59] 15,0 [0.09] 2,3 [0.19] 4,8 [0.31] 8