Round Body Design
Pneumatic Cylinders

### SR/SRM, SRD/SRDM Series, Stainless Steel Body

<table>
<thead>
<tr>
<th>Features</th>
<th>C2-C3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordering Information</td>
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<td>Specification</td>
<td>C5</td>
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<tr>
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<td>Accessories</td>
<td>C32-C33</td>
</tr>
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### SRG/SRGM Series with Stainless Caps

<table>
<thead>
<tr>
<th>Features</th>
<th>C34</th>
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<tbody>
<tr>
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<td>Dimensional Data</td>
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<td>Mounting Style</td>
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<td>Accessories</td>
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</table>

### SRX Series with Continuous Position Feedback

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Ordering Information</td>
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<td>Mounting Styles</td>
<td>C40</td>
</tr>
<tr>
<td>Specification</td>
<td>C40-C41</td>
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<tr>
<td>Dimensional Data</td>
<td>C42-C45</td>
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<td>Accessories</td>
<td>C47</td>
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<td>Connector Options</td>
<td>C48</td>
</tr>
<tr>
<td>Electrical Accessories</td>
<td>C49</td>
</tr>
</tbody>
</table>

### P1A Series - Mini ISO 6432, Stainless Steel

<table>
<thead>
<tr>
<th>Features</th>
<th>C50-C51</th>
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</thead>
<tbody>
<tr>
<td>Ordering Information / Stroke Lengths</td>
<td>C51</td>
</tr>
<tr>
<td>Specification</td>
<td>C52-C54</td>
</tr>
<tr>
<td>Dimensional Data</td>
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</tr>
<tr>
<td>Accessories</td>
<td>C56-C57</td>
</tr>
</tbody>
</table>

### P Series - Aluminum

<table>
<thead>
<tr>
<th>Features</th>
<th>C58-C59</th>
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<tbody>
<tr>
<td>Ordering Information</td>
<td>C59</td>
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<tr>
<td>Specification</td>
<td>C60</td>
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<tr>
<td>Mountings</td>
<td>C60</td>
</tr>
<tr>
<td>Dimensional Data</td>
<td>C61</td>
</tr>
<tr>
<td>Sensor Mounting / Service Kits</td>
<td>C66</td>
</tr>
</tbody>
</table>
**Round Body Pneumatic Cylinders**

**SR Series, Stainless Steel**

**Features**

**STAINLESS STEEL PISTON RODS**
Corrosion resistant stainless steel is now the standard piston rod material for all bore sizes up to and including 1.50 inch bore at no additional cost. The only exception to the stainless steel standard is when a hollow rod or non-rotating hexagonal rod option is specified. Stainless steel is also the standard material on block, trunnion and KDX mounts.

**PRE-LUBRICATION**
All SR Series cylinders are factory prelubricated for use with or without added lubrication.

**ROD BUSHINGS**
Oil impregnated bronze, reamed to a close tolerance provides for smooth operation and long life.

**SEALS**
All piston and rod seals are of a lipseal construction. Buna-N is standard on all models. Fluorocarbon seals are available as an option.

**UNITIZED CONSTRUCTION**
Precision double-rolled unitized construction provides durable, leak-proof service and long life.

**PISTON BODY**
Pistons are precision machined aluminum construction. Piston rod connections are threaded and loctited to provide for leakproof and durable service.

**HEADS AND CAPS**
Aluminum construction with precision machining provides a smooth break away. The tube-to-head connection is a strong double rolled construction.

**CYLINDER TUBE**
Type 304 stainless steel, polished to a micro-inch finish on the I.D. provides low friction and long life. A matte finish on the O.D. provides smudge resistance.

**TEN BORE SIZES** – 5/16” thru 3”. SR Series cylinders are designed to be dimensionally interchangeable with other major stainless steel cylinders.

**SR Series**

The SRM Series air cylinder can be ordered with reed or solid state sensors that are easily adjustable anywhere on the cylinder body, with no special mounting rail required. Nitrile-barium particle composite surrounds the entire piston diameter for non-contact sensing. Sensors are compatible with Programmable Controllers; an LED indicator is also standard. A shielded cable is standard, and can be extended to 32 feet maximum by the user.

**SRD/SRDM Series**

SRD/SRDM Series cylinders are designed to withstand a wide range of operating environments to tolerate moisture and many types of lubricants and solvents. The cylinders have a acetal resin head and cap, an anodized aluminum piston, stainless steel cylinder tube and stainless steel piston rod. Stainless steel accessories are available.
Features

- 304 stainless steel cylinder body, non repairable construction
- Aluminum heads and caps, acetal resin heads and caps are optional
- 12 bore sizes — 5/16” through 3” (see dimensional tables for SRM and SRD/SRDM exclusions).
- Stainless steel piston rods are standard up to 1.50” bore
- 28 standard mounting styles (not all available on SRM and SRD/SRDM – see table on following page)
- Single and double acting
- Adjustable cushions optional on both ends

Operating information

Operating pressure: 250 PSIG (17 bar) for SR and SRM
100 PSIG (7 bar) for SRD/SRDM
Temperature range: -10°F to 165°F (-23°C to 74°C) for SR
14°F to 140°F (-10°C to 60°C) for SRM
32°F to 160°F (0°C to 71°C) for SRD/SRDM
Filtration requirements: 40 micron, dry filtered air

For inventory, lead time, and kit lookup, visit www.pdnplu.com
### Available Mounting Styles

<table>
<thead>
<tr>
<th>Mount Style</th>
<th>Description</th>
<th>5/16&quot;</th>
<th>7/16&quot;</th>
<th>9/16&quot;</th>
<th>3/4&quot;</th>
<th>7/8&quot;</th>
<th>1-1/16&quot;</th>
<th>1-1/4&quot;</th>
<th>1-1/2&quot;</th>
<th>1-3/4&quot;</th>
<th>2&quot;</th>
<th>2-1/2&quot;</th>
<th>3&quot;</th>
</tr>
</thead>
</table>

**Notes:**

1. Recommended maximum stroke is 4" in models N, P, R & RP.
2. Not available on SRM (magnetic piston) cylinders.
3. Not available on SRD/DM (acetal resin caps) cylinders.
4. Recommended maximum stroke is 4" for 5/16" bore models.
5. Max stroke 12" for bore sizes under 3/4"; 32" for bore sizes 3/4" and up.
6. Max stroke 6" for bore sizes under 3/4"; 12" for bore sizes 3/4" and up.

For inventory, lead times, and kit lookup, visit www.pdnplu.com

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**Catalog 0900P-6**

**Round Body Pneumatic Cylinders**

**SR Series, Stainless Steel**

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For inventory, lead times, and kit lookup, visit www.pdnplu.com

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**Parker Hannifin Corporation**

Pneumatic Division

Richland, Michigan

www.parker.com/pneumatics
Specifications

- 304 stainless steel cylinder body.
- Aluminum heads and caps.
- Stainless steel piston rods are standard up to 1.50" bore.
- Nominal pressure rating: 250 psi for SR and SRM
  100 psi for SRD/SRDM
- Standard temperature: -10°F to 165°F (SR)
  14°F to 140°F (SRM)
  32°F to 160°F (SRD/SRDM)
  -10°F to 125°F (Fluorocarbon seals)

In line with our policy of continuing product improvement, the specifications in this catalog are subject to change without notice.

Port Locations

<table>
<thead>
<tr>
<th>Mounting Style</th>
<th>Standard Head Port Location</th>
<th>Standard Cap Port Location</th>
<th>Standard Vent Location</th>
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<tbody>
<tr>
<td>AR</td>
<td>Face</td>
<td>Face</td>
<td>None</td>
</tr>
<tr>
<td>BFR</td>
<td>2</td>
<td>None</td>
<td>2</td>
</tr>
<tr>
<td>BFN</td>
<td>None</td>
<td>Face</td>
<td>2</td>
</tr>
<tr>
<td>BRD</td>
<td>2</td>
<td>2</td>
<td>None</td>
</tr>
<tr>
<td>BFD</td>
<td>2</td>
<td>Face</td>
<td>None</td>
</tr>
<tr>
<td>BRR</td>
<td>2</td>
<td>None</td>
<td>2</td>
</tr>
<tr>
<td>BRN</td>
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<td>2</td>
<td>2</td>
</tr>
<tr>
<td>TFR</td>
<td>1</td>
<td>None</td>
<td>1</td>
</tr>
<tr>
<td>TFN</td>
<td>None</td>
<td>Face</td>
<td>1</td>
</tr>
<tr>
<td>TRD</td>
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<td>1</td>
<td>None</td>
</tr>
<tr>
<td>TFD</td>
<td>1</td>
<td>Face</td>
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</tr>
<tr>
<td>TRN</td>
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<td>1</td>
</tr>
<tr>
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<td>DP</td>
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<tr>
<td>D</td>
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<td>Face</td>
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<td>RP</td>
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<td>NRP</td>
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</tr>
<tr>
<td>N</td>
<td>None</td>
<td>Face</td>
<td>2</td>
</tr>
</tbody>
</table>

End View of Mountings for Port Location

Cylinders will have ports at these locations unless otherwise specified.
# Technical Data

## Round Body Pneumatic Cylinders

### SR Series, Stainless Steel

### Port Size — Rod Diameter, Spring Force Data

<table>
<thead>
<tr>
<th>Bore size</th>
<th>Port size</th>
<th>Rod diameter (or Hex)</th>
<th>Force factor</th>
<th>Spring return (lbs) Normal</th>
<th>Spring return (lbs) Extended</th>
<th>Spring extend (lbs) Normal</th>
<th>Spring extend (lbs) Retracted</th>
</tr>
</thead>
<tbody>
<tr>
<td>.31 (5/16&quot;)</td>
<td>#10-32</td>
<td>1/8&quot;</td>
<td>0.08</td>
<td>0.5</td>
<td>1</td>
<td>0.5</td>
<td>1</td>
</tr>
<tr>
<td>.44 (7/16&quot;)</td>
<td>#10-32</td>
<td>3/16&quot;</td>
<td>0.15</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>.56 (9/16&quot;)</td>
<td>#10-32</td>
<td>3/16&quot;</td>
<td>0.25</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>.75 (3/4&quot;)</td>
<td>1/8 NPTF</td>
<td>1/4&quot;</td>
<td>0.44</td>
<td>3</td>
<td>6</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>.88 (7/8&quot;)</td>
<td>1/8 NPTF</td>
<td>1/4&quot;</td>
<td>0.60</td>
<td>3</td>
<td>6</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>1.06 (1-1/16&quot;)</td>
<td>1/8 NPTF</td>
<td>5/16&quot;</td>
<td>0.89</td>
<td>3&quot;</td>
<td>6&quot;</td>
<td>7.5</td>
<td>15</td>
</tr>
<tr>
<td>1.25 (1-1/4&quot;)</td>
<td>1/8 NPTF</td>
<td>7/16&quot;</td>
<td>1.23</td>
<td>3&quot;</td>
<td>6&quot;</td>
<td>7.5</td>
<td>15</td>
</tr>
<tr>
<td>1.50 (1-1/2&quot;)</td>
<td>1/8 NPTF</td>
<td>7/16&quot;</td>
<td>1.77</td>
<td>6&quot;</td>
<td>12&quot;</td>
<td>9</td>
<td>18</td>
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<tr>
<td>1.75 (1-3/4&quot;)</td>
<td>1/4 NPTF</td>
<td>1/2&quot;</td>
<td>2.40</td>
<td>11</td>
<td>24</td>
<td>11</td>
<td>24</td>
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<tr>
<td>2.00 (2&quot;)</td>
<td>1/4 NPTF</td>
<td>5/8&quot;</td>
<td>3.14</td>
<td>15</td>
<td>30</td>
<td>15</td>
<td>30</td>
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<tr>
<td>2.50 (2-1/2&quot;)</td>
<td>1/4 NPTF</td>
<td>5/8&quot;</td>
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<td>N/A</td>
<td>N/A</td>
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<td>3.00 (3&quot;)</td>
<td>3/8 NPTF</td>
<td>3/4&quot;</td>
<td>7.07</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

* Non-rotating version uses 3/8" hex.
† Block mount and trunnion mount spring return lbs. equals spring extend lbs.

### Springs

- shot peened music wire for high cycle life.
- Spring spacers are provided for every one inch of stroke (1/2" for 5/16" and 7/16" bores) to insure uniform spring rate and prevent spring failure.

### Option Availability

<table>
<thead>
<tr>
<th>Option</th>
<th>Bumpers</th>
<th>Fluorocarbon seals</th>
<th>Rod wipers</th>
<th>Cushions</th>
<th>Acetal resin end caps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bumpers</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>X</td>
<td>◆</td>
</tr>
<tr>
<td>Fluorocarbon seals</td>
<td>–</td>
<td>–</td>
<td>X</td>
<td>S</td>
<td>◆</td>
</tr>
<tr>
<td>Rod wiper</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>◆</td>
</tr>
<tr>
<td>Cushions</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>X</td>
</tr>
</tbody>
</table>

◆ = Available Options
S = Available as Special
X = Not Available
## Non-Standard Rods

For non-standard rod dimensions, or undersized rod end threads, put a “3” in model number and describe the rod using the letters shown in the drawing. Specify CC, LE and A dimensions. LE is measured in retracted position.

### Style N

**Nose mount, spring return**

<table>
<thead>
<tr>
<th>Bore size</th>
<th>SR</th>
<th>SRM</th>
<th>Std. strokes (in.)</th>
<th>Max. stroke (in.)</th>
<th>SS rod std</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/16&quot;</td>
<td>•</td>
<td>SS</td>
<td>1/2, 1, 1-1/2, 2, 2-1/2, 3, 4</td>
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<tr>
<td>7/16&quot;</td>
<td>•</td>
<td>SS</td>
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<td>6</td>
<td>✓</td>
</tr>
<tr>
<td>9/16&quot;</td>
<td>•</td>
<td>SS</td>
<td>1/2, 1, 1-1/2, 2, 2-1/2, 3, 4</td>
<td>6</td>
<td>✓</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>•</td>
<td>SS</td>
<td>1/2, 1, 1-1/2, 2, 2-1/2, 3, 4</td>
<td>6</td>
<td>✓</td>
</tr>
<tr>
<td>7/8&quot;</td>
<td>•</td>
<td>SS</td>
<td>1/2, 1, 1-1/2, 2, 2-1/2, 3, 4</td>
<td>6</td>
<td>✓</td>
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<tr>
<td>1-1/16&quot;</td>
<td>•</td>
<td>SS</td>
<td>1/2, 1, 1-1/2, 2, 2-1/2, 3, 4</td>
<td>6</td>
<td>✓</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>•</td>
<td>SS</td>
<td>1/2, 1, 1-1/2, 2, 2-1/2, 3, 4</td>
<td>6</td>
<td>✓</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
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<tr>
<td>1-3/4&quot;</td>
<td>•</td>
<td>SS</td>
<td>1/2, 1, 1-1/2, 2, 2-1/2, 3, 4</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

### Non-Standard Rods

**Catalog 0900P-6**

**Round Body Pneumatic Cylinders**

*Requires an S designation in model number.*

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For inventory, lead time, and kit lookup, visit www.pdnplu.com

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics
### Style NR

Nose mount, spring return, hex rod

![Round Body Pneumatic Cylinders](image)

#### Bore size

<table>
<thead>
<tr>
<th>Bore size</th>
<th>SR</th>
<th>SRM</th>
<th>Std. stroke (in)</th>
<th>Max. stroke (in)</th>
<th>SS rod std</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/16&quot;</td>
<td>•</td>
<td>•</td>
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<td>✔</td>
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<tr>
<td>9/16&quot;</td>
<td>•</td>
<td>•</td>
<td>1/2, 1, 1-1/2, 2, 3, 4</td>
<td>6</td>
<td>✔</td>
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<tr>
<td>3/4&quot;</td>
<td>•</td>
<td>•</td>
<td>1/2, 1, 1-1/2, 2, 3, 4</td>
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<tr>
<td>7/8&quot;</td>
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<td>•</td>
<td>1/2, 1, 1-1/2, 2, 3, 4</td>
<td>6</td>
<td>✔</td>
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<tr>
<td>1-1/16&quot;</td>
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<td>1-1/4&quot;</td>
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<td>1, 2, 3, 4</td>
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<td>1-1/2&quot;</td>
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<td>1-3/4&quot;</td>
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#### Table

<table>
<thead>
<tr>
<th>Bore size</th>
<th>A</th>
<th>AA</th>
<th>B</th>
<th>C</th>
<th>CC</th>
<th>D</th>
<th>E</th>
<th>EE</th>
<th>J</th>
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* To determine lengths for half inch stroke increments, determine length for next highest whole number stroke and subtract one half inch.
Style NRP
Pivot & nose mount, spring return, hex rod

### Bore sizes

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<th>Max. stroke (in)</th>
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<th>AA</th>
<th>B</th>
<th>C</th>
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* To determine lengths for half inch stroke increments, determine length for next highest whole number stroke and subtract one half inch.

### Bore sizes

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<th>W</th>
<th>X</th>
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* No mounting nuts
## Round Body Pneumatic Cylinders
### SR Series, Stainless Steel

#### Style P
Pivot mount, spring return

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<th>Bore Size</th>
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<th>Max. Stroke (in)</th>
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<th>AA</th>
<th>B</th>
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- **5/16"**
- **7/16"**
- **9/16"**
- **3/4"**
- **7/8"**
- **1-1/16"**
- **1-1/4"**
- **1-1/2"**
- **1-3/4"**
- **2"**

### Bore Sizes

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<th>V</th>
<th>X</th>
<th>XJ</th>
<th>XJ</th>
<th>Z</th>
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- **6.34"** for 1" stroke, 8.34" for 2" stroke, 9.59" for 3" stroke, 12.53" for 4" stroke*
- **7.78"** for 1" stroke, 8.78" for 2" stroke, 10.03" for 3" stroke, 12.97" for 4" stroke*
- **6.59"** for 1" stroke, 8.59" for 2" stroke, 9.84" for 3" stroke, 12.78" for 4" stroke*
- **7.03"** for 1" stroke, 9.03" for 2" stroke, 10.28" for 3" stroke, 13.22" for 4" stroke*

*To determine lengths for half inch stroke increments, determine length for next highest whole number stroke and subtract a half inch.*

For inventory, lead times, and kit lookup, visit: www.pdnplu.com

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics
Style R
Nose mount, spring extended

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▲ 7.11" for 1" stroke, 10.11" for 2" stroke, 12.34" for 3" stroke, 16.34" for 4" stroke.
◆ 7.36" for 1" stroke, 10.36" for 2" stroke, 12.59" for 3" stroke, 16.59" for 4" stroke.
* Bores 5/16" and 7/16" only; to determine lengths for one-quarter inch stroke increments, determine length for the next highest half-inch number stroke and then subtract one-quarter inch.
** Bores 9/16" to 2": to determine lengths for half inch stroke increments, determine length for next highest whole number stroke and subtract one full inch.

For each 1.00" of stroke.
## Round Body Pneumatic Cylinders
### SR Series, Stainless Steel

#### Style RP
Pivot and nose mount, spring extended

**Catalog 0900P-6**  
Mounting Style – RP

**For inventory, lead times, and kit lookup, visit www.pdnplu.com**

---

### Style RP
Pivot and nose mount, spring extended

**For inventory, lead times, and kit lookup, visit www.pdnplu.com**

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* No mounting nuts

#### Bore sizes

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* No mounting nuts

#### Bore sizes

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* No mounting nuts

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- 8.05° for 1" stroke, 11.05° for 2" stroke, 13.28° for 3" stroke, 17.28° for 4" stroke
- 8.50° for 1" stroke, 11.50° for 2" stroke, 17.22° for 3" stroke, 17.72° for 4" stroke
- 8.31° for 1" stroke, 11.31° for 2" stroke, 13.53° for 3" stroke, 17.53° for 4" stroke
- 8.75° for 1" stroke, 11.75° for 2" stroke, 13.97° for 3" stroke, 17.97° for 4" stroke
* Bores 5/16" and 7/16" only: to determine lengths for one-quarter inch stroke increments, determine length for the next highest half-inch number stroke and then subtract one-quarter inch. Bores 9/16" to 2": to determine lengths for half inch stroke increments, determine length for next highest whole number stroke and subtract one full inch.
### Round Body Pneumatic Cylinders

**SR Series, Stainless Steel**

#### Style D

Nose mount, double acting

---

**Bore sizes**

- 5/16”
- 7/16”
- 3/4”

**Bore sizes**

- 9/16”
- 7/8”
- 1-1/16”
- 1-1/4”
- 1-1/2”
- 1-3/4”
- 2”
- 2-1/2”
- 3”

### Specifications

**Bore sizes**

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**Bore sizes**

- 9/16”
- 7/8”
- 1-1/16”
- 1-1/4”
- 1-1/2”
- 1-3/4”
- 2”
- 2-1/2”
- 3”

### Notes

* No mounting nuts

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For inventory, lead time, and kit lookup, visit www.pdnplu.com

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

C13
**Round Body Pneumatic Cylinders**

**SR Series, Stainless Steel**

**Style DP**
Pivot and nose mount, double acting, pivot pin

---

### Bore sizes

- **5/16"**
- **7/16"**
- **3/4"**

---

### Style DP Specifications

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<th>Max. stroke (in)</th>
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For inventory, lead times, and kit lookup, visit www.pdnplu.com
## Round Body Pneumatic Cylinders

### SR Series, Stainless Steel

**Catalog 0900P-6**

**Mounting Style – DXP**

**Style DXP**

Pivot & nose mount, double acting, no pivot pin

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### Bore sizes

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<th>SRD</th>
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### Bore sizes

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* Bore sizes

- 5/16"  
- 7/16"  
- 3/4"  
- 9/16"  
- 7/8"  
- 1-1/16"  
- 1-1/4"  
- 1-1/2"  
- 1-3/4"  
- 2"  
- 2-1/2"  
- 3"  

* No mounting nuts

---

For inventory, lead time, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)
**Style DX**

Threaded both ends, double acting

---

### Round Body Pneumatic Cylinders

**SR Series, Stainless Steel**

**Catalog 0900P-6**

**Mounting Style – DX**

---

**Bore size**

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**Max. stroke (in)**

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**SS rod (in)**

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**Available upon request. Please consult factory.**
**Round Body Pneumatic Cylinders**

**SR Series, Stainless Steel**

**Catalog 0900P-6**

**Mounting Style – KDX**

Threaded both ends, double acting, double rod

---

**Bore sizes**

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**Bore sizes**

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**Style KDX**

Threaded both ends, double acting, double rod

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**Bore sizes**

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For inventory, lead time, and kit lookup, visit www.pdnplu.com
**Style KDXH**

Threaded both ends, double rod, hollow rod

![Diagram of Round Body Pneumatic Cylinders KDXH, A](image)

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**Style A**

Nose mount, spring return, head adjustable stroke

![Diagram of Round Body Pneumatic Cylinders A, Stainless Steel](image)

<table>
<thead>
<tr>
<th>Bore size (in)</th>
<th>SR</th>
<th>SRM</th>
<th>Std. stroke</th>
<th>Max. stroke std</th>
<th>SS rod</th>
<th>A</th>
<th>AS</th>
<th>C</th>
<th>CC</th>
<th>CS</th>
<th>D</th>
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<tbody>
<tr>
<td>3/4&quot;</td>
<td>•</td>
<td>•</td>
<td>Stroke adjustment in 1&quot; increments to 3&quot;: 1&quot; stroke adjusts 0-1&quot;</td>
<td>6</td>
<td>✓</td>
<td>0.50</td>
<td>–</td>
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<td>0.250</td>
<td>1.69</td>
<td>–</td>
</tr>
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<td>0.25</td>
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<th>GM</th>
<th>GW</th>
<th>KK</th>
<th>MB</th>
<th>MT</th>
<th>NM</th>
<th>OP</th>
<th>R</th>
<th>RM</th>
<th>TM</th>
<th>X</th>
<th>ZJ</th>
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<td>0.88</td>
<td>1/4-28 UNF</td>
<td>0.250</td>
<td>2.38</td>
<td>1.44</td>
<td>–</td>
<td>0.19</td>
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<td>3.12</td>
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<td>1.25</td>
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### Round Body Pneumatic Cylinders
#### SR Series, Stainless Steel

#### Style RA
Nose mount, spring extend, cap adjustable stroke

---

**Bore sizes**

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<th>1-1/2&quot;</th>
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**Bore sizes**

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### Specifications

#### Bore sizes

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<th>Std. stroke</th>
<th>Max. stroke (in)</th>
<th>SS rod std</th>
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<td>0.34</td>
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</tr>
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<td>0.32</td>
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<td>0.624</td>
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<td>1/8 NPTF</td>
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#### Bore sizes

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<th>R</th>
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<th>W</th>
<th>WH</th>
<th>X</th>
<th>ZJ</th>
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<tr>
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<td>5/8-18</td>
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<td>0.12</td>
<td>0.09</td>
<td>0.50</td>
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For inventory, lead time, and kit lookup, visit www.pdnplu.com
Style AP
Pivot mount, spring return, head adjustable stroke

Bore sizes

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<tr>
<th>Bore size</th>
<th>SR</th>
<th>SRM</th>
<th>Std. stroke</th>
<th>Max. stroke (in)</th>
<th>SS rod std</th>
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<tr>
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<td>6</td>
<td>✔</td>
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Bore sizes

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<th>CC</th>
<th>D</th>
<th>DA</th>
<th>E</th>
<th>EE</th>
<th>J</th>
<th>KK</th>
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<tr>
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<td>0.38</td>
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<td>1.69</td>
<td>1/4-28 UNF</td>
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<tr>
<td>1-1/16&quot;</td>
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<tr>
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Bore sizes

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<th>OP</th>
<th>PP</th>
<th>R</th>
<th>RW</th>
<th>TD</th>
<th>UT</th>
<th>X</th>
<th>XJ</th>
<th>ZJ</th>
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<tbody>
<tr>
<td>3/4&quot;</td>
<td>7/16-20</td>
<td>5/8-18 UNF</td>
<td>0.34</td>
<td>–</td>
<td>0.62</td>
<td>0.19</td>
<td>0.19</td>
<td>0.250</td>
<td>0.75</td>
<td>1.69</td>
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<td>1.56</td>
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<td>1-1/2&quot;</td>
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## Style BRN

Rear block mount, single acting, spring return

![Diagram of Round Body Pneumatic Cylinders - Style BRN](image)

<table>
<thead>
<tr>
<th>Bore size</th>
<th>SR</th>
<th>SRM</th>
<th>Std. stroke (in)</th>
<th>Max. stroke (in)</th>
<th>SS rod std</th>
<th>A</th>
<th>AA</th>
<th>B</th>
<th>C</th>
<th>CC</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/16&quot;</td>
<td>•</td>
<td>•</td>
<td>1/2, 1, 2, 3, 4</td>
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<td>0.188</td>
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<tr>
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<td>•</td>
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<td>1, 2, 3, 4</td>
<td>6</td>
<td>✓</td>
<td>0.75</td>
<td>1.12</td>
<td>0.624</td>
<td>0.38</td>
<td>0.312</td>
<td>0.25</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>•</td>
<td>•</td>
<td>1, 2, 3, 4</td>
<td>6</td>
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<td>1.25</td>
<td>1.56</td>
<td>0.749</td>
<td>0.25</td>
<td>0.437</td>
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</table>

* To determine lengths for half inch stroke increments, determine length for next highest whole number stroke and subtract one half inch.

## Style BRR

Rear block mount, single acting, spring extend

![Diagram of Round Body Pneumatic Cylinders - Style BRR](image)

<table>
<thead>
<tr>
<th>Bore size</th>
<th>E</th>
<th>EE</th>
<th>KK</th>
<th>KM</th>
<th>SW</th>
<th>V</th>
<th>W</th>
<th>X</th>
<th>SR</th>
<th>SRM</th>
<th>ZJ</th>
<th>ZJ</th>
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<tr>
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<td>#10-32 UNF</td>
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<td>0.94</td>
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</tr>
<tr>
<td>3/4&quot;</td>
<td>1.00</td>
<td>1/8 NPTF</td>
<td>1/4-28 UNF</td>
<td>1/2-20</td>
<td>0.44</td>
<td>0.09</td>
<td>0.62</td>
<td>1.69</td>
<td>2.31</td>
<td>2.56</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-1/16&quot;</td>
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</table>

* To determine lengths for half inch stroke increments, determine length for next highest whole number stroke and subtract one half inch.
### Round Body Pneumatic Cylinders

#### SR Series, Stainless Steel

**Style BFD**

Front block mount, double acting

---

**Catalog 0900P-6**

**Mounting Style – BFD**

**Round Body Pneumatic Cylinders**

**SR Series, Stainless Steel**

---

#### Bore sizes

<table>
<thead>
<tr>
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<tr>
<td>Max. stroke (in)</td>
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#### Bore sizes

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<th>E</th>
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<th>FH</th>
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<td>–</td>
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<td>#10-32</td>
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<td>1/8 NPTF</td>
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<td>1/4-20 UNC</td>
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<tr>
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<td>0.25</td>
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#### Bore sizes

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<td>1/4-28 UNF</td>
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<tr>
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<td>7/16-20 UNF</td>
<td>1.88</td>
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For inventory, lead times, and kit lookup, visit www.pdnpu.com

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics
**Round Body Pneumatic Cylinders**

**SR Series, Stainless Steel**

**Catalog 0900P-6**

**Mounting Style – BRD**

Rear block mount, double acting

---

**Bore size**

<table>
<thead>
<tr>
<th>BRD</th>
<th>SR</th>
<th>SRM</th>
<th>Std. stroke (in)</th>
<th>Max. stroke (in)</th>
<th>SS rod std</th>
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Round Body Pneumatic Cylinders
SR Series, Stainless Steel

Style BFN
Front block mount, single acting, spring return

Bore sizes
7/16"  
3/4"  
1-1/16"  
1-1/2"

Bore sizes

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<th>Max stroke (in)</th>
<th>SS rod std</th>
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<th>S</th>
<th>SB</th>
<th>SC</th>
<th>SO</th>
<th>V</th>
<th>W</th>
<th>X</th>
<th>ZJ</th>
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* To determine lengths for half inch stroke increments, determine length for next highest whole number stroke and subtract one half inch.
Style BFR

Front block mount, single acting, spring extend

---

### Bore size SR SRM Std. stroke (in) Max stroke (in) SS rod std

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<th>Bore size</th>
<th>SR</th>
<th>SRM</th>
<th>Std. stroke (in)</th>
<th>Max stroke (in)</th>
<th>SS rod std</th>
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<td>1, 2, 3, 4</td>
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### Bore size A AA B BC CC D E EE F FH HP J

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<th>D</th>
<th>E</th>
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<th>F</th>
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<td>0.88</td>
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<td>0.19</td>
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### Bore size KK MB R S SB SC SO V W X ZJ ZJ

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<td>1/4-20 UNC</td>
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* To determine lengths for half inch stroke increments, determine length for next highest whole number stroke and subtract one half inch.
## Style TRN

Rear trunnion mount, single acting, spring return

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<th>Bore size</th>
<th>SR</th>
<th>SRM</th>
<th>Std. stroke (in)</th>
<th>Max. stroke (in)</th>
<th>SS rod std</th>
<th>A</th>
<th>AA</th>
<th>B</th>
<th>C</th>
<th>CC</th>
<th>D</th>
<th>EE</th>
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* To determine lengths for half inch stroke increments, determine length for next highest whole number stroke and subtract one half inch.

** For each 0.50" of stroke.

## Style TRR

Rear trunnion mount, single acting, spring extend

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<th>Max. stroke (in)</th>
<th>SS rod std</th>
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<td>0.25</td>
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* To determine lengths for half inch stroke increments, determine length for next highest whole number stroke and subtract one half inch.

For inventory, lead times, and kit lookup, visit www.pdnplu.com
Round Body Pneumatic Cylinders
SR Series, Stainless Steel

Style TFD
Front trunnion mount, double acting

<table>
<thead>
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<th>Bore size</th>
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<th>Max. stroke (in)</th>
<th>SS rod std</th>
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<th>AA</th>
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<th>CC</th>
<th>D</th>
<th>E</th>
<th>EE</th>
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Style TRD
Rear trunnion mount, double acting

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<th>Max. stroke (in)</th>
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<td>0.74</td>
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<td>–</td>
<td>0.188</td>
<td>–</td>
<td>#10-32</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>●</td>
<td>●</td>
<td>1, 2, 3, 4, 5, 6</td>
<td>12</td>
<td>✓</td>
<td>0.75</td>
<td>0.86</td>
<td>0.624</td>
<td>0.250</td>
<td>0.22</td>
<td>0.62</td>
<td>#1/8 NPTF</td>
</tr>
<tr>
<td>1-1/16&quot;</td>
<td>●</td>
<td>●</td>
<td>1, 2, 3, 4, 5, 6</td>
<td>12</td>
<td>✓</td>
<td>0.75</td>
<td>1.12</td>
<td>0.750</td>
<td>0.312</td>
<td>0.25</td>
<td>0.88</td>
<td>#1/8 NPTF</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>●</td>
<td>●</td>
<td>1, 2, 3, 4, 5, 6</td>
<td>12</td>
<td>✓</td>
<td>1.25</td>
<td>1.56</td>
<td>1.000</td>
<td>0.437</td>
<td>0.38</td>
<td>0.88</td>
<td>#1/4 NPTF</td>
</tr>
</tbody>
</table>

For inventory, lead time, and kit lookup, visit www.pdnplu.com
**Style TFN**

Front trunnion mount, single acting, spring return

---

**Mounting Style TFR**

Front trunnion mount, single acting, spring extend

---

### Bore Size Table

<table>
<thead>
<tr>
<th>Bore Size</th>
<th>SR</th>
<th>SRM</th>
<th>Std. Stroke (in)</th>
<th>Max. Stroke (in)</th>
<th>SS Rod std</th>
<th>A</th>
<th>AA</th>
<th>B</th>
<th>CC</th>
<th>D</th>
<th>E</th>
<th>EE</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/16&quot;</td>
<td>•</td>
<td>•</td>
<td>1/2, 1-1/2, 2, 3</td>
<td>6</td>
<td>✓</td>
<td>0.50</td>
<td>0.50</td>
<td>0.437</td>
<td>0.188</td>
<td>–</td>
<td>0.38</td>
<td>#10-32</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>•</td>
<td>•</td>
<td>1/2, 1, 2, 3, 4</td>
<td>6</td>
<td>✓</td>
<td>0.75</td>
<td>0.81</td>
<td>0.624</td>
<td>0.250</td>
<td>0.22</td>
<td>0.62</td>
<td>1/8 NPTF</td>
</tr>
<tr>
<td>1-1/16&quot;</td>
<td>•</td>
<td>•</td>
<td>1, 2, 3, 4</td>
<td>6</td>
<td>✓</td>
<td>0.75</td>
<td>1.12</td>
<td>0.750</td>
<td>0.312</td>
<td>0.25</td>
<td>0.88</td>
<td>1/8 NPTF</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>•</td>
<td>•</td>
<td>1, 2, 3, 4</td>
<td>6</td>
<td>✓</td>
<td>1.25</td>
<td>1.56</td>
<td>1.000</td>
<td>0.437</td>
<td>0.38</td>
<td>0.88</td>
<td>1/4 NPTF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bore Size</th>
<th>J</th>
<th>KK</th>
<th>MB</th>
<th>SB</th>
<th>TD</th>
<th>TL</th>
<th>UT</th>
<th>V</th>
<th>W</th>
<th>X</th>
<th>XJ</th>
<th>ZJ</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/16&quot;</td>
<td>0.19</td>
<td>#10-32 UNF</td>
<td>0.88</td>
<td>0.75</td>
<td>0.374</td>
<td>0.25</td>
<td>1.25</td>
<td>0.062</td>
<td>0</td>
<td>0.94**</td>
<td>0.31</td>
<td>1.94</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>0.19</td>
<td>5/16-24 UNF</td>
<td>1.12</td>
<td>1.00</td>
<td>0.500</td>
<td>0.38</td>
<td>1.75</td>
<td>0.093</td>
<td>0.34</td>
<td>1.69</td>
<td>0.69</td>
<td>2.66</td>
</tr>
<tr>
<td>1-1/16&quot;</td>
<td>0.25</td>
<td>7/16-20 UNF</td>
<td>1.41</td>
<td>1.25</td>
<td>0.500</td>
<td>0.38</td>
<td>2.00</td>
<td>0.093</td>
<td>0.47</td>
<td>1.81</td>
<td>1.09</td>
<td>3.38</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>1.88</td>
<td>1.75</td>
<td>0.500</td>
<td>0.38</td>
<td>2.50</td>
<td>0.125</td>
<td>0.38</td>
<td>2.00</td>
<td>1.31</td>
<td>3.69</td>
<td>3.94</td>
<td></td>
</tr>
</tbody>
</table>

* To determine lengths for half inch stroke increments, determine length for next highest whole number stroke and subtract one half inch.

** For each 0.50" of stroke

---

### Notes

- For inventory, lead times, and kit lookup, visit www.pdnplu.com
- To determine lengths for half inch stroke increments, determine length for next highest whole number stroke and subtract one half inch.
Air Reservoirs

Air Reservoirs installed can significantly reduce the pulsation of a system. In addition air reservoirs can be used as a means to store energy. Caution should always be used when storing energy. Air reservoirs if installed in the correct location and sized correctly can temporarily increase the flow of an actuator or cylinder.

As always never exceed the rated pressure of the cylinder.

Ordering information

<table>
<thead>
<tr>
<th>Bore Size*</th>
<th>Mounting</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>.75</td>
<td>AR</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>1.06</td>
<td>AR</td>
<td>1-1/16&quot;</td>
</tr>
<tr>
<td>1.50</td>
<td>AR</td>
<td>1-1/2&quot;</td>
</tr>
<tr>
<td>2.00</td>
<td>AR</td>
<td>2&quot;</td>
</tr>
<tr>
<td>2.50</td>
<td>AR</td>
<td>2-1/2&quot;</td>
</tr>
<tr>
<td>3.00</td>
<td>AR</td>
<td>3&quot;</td>
</tr>
</tbody>
</table>

Air Reservoirs installed can significantly reduce the pulsation of a system. In addition air reservoirs can be used as a means to store energy. Caution should always be used when storing energy. Air reservoirs if installed in the correct location and sized correctly can temporarily increase the flow of an actuator or cylinder.

As always never exceed the rated pressure of the cylinder.

Ordering information

<table>
<thead>
<tr>
<th>Bore Size*</th>
<th>Standard lengths</th>
<th>Max. length</th>
<th>Volume (in³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>1Incrementsto4&quot;</td>
<td>32&quot;</td>
<td>0.39 plus 0.44 per inch length</td>
</tr>
<tr>
<td>1-1/16&quot;</td>
<td>1 Incrementsto8&quot;</td>
<td>32&quot;</td>
<td>0.90 plus 0.89 per inch length</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>1 Incrementsto16&quot;</td>
<td>32&quot;</td>
<td>1.91 plus 1.77 per inch length</td>
</tr>
<tr>
<td>2&quot;</td>
<td>1 Incrementsto16&quot;</td>
<td>32&quot;</td>
<td>4.22 plus 3.14 per inch length</td>
</tr>
<tr>
<td>2-1/2&quot;</td>
<td>1 Incrementsto16&quot;</td>
<td>32&quot;</td>
<td>7.04 plus 4.91 per inch length</td>
</tr>
<tr>
<td>3&quot;</td>
<td>1 Incrementsto16&quot;</td>
<td>32&quot;</td>
<td>9.90 plus 7.07 per inch length</td>
</tr>
</tbody>
</table>

Air Reservoirs installed can significantly reduce the pulsation of a system. In addition air reservoirs can be used as a means to store energy. Caution should always be used when storing energy. Air reservoirs if installed in the correct location and sized correctly can temporarily increase the flow of an actuator or cylinder.

As always never exceed the rated pressure of the cylinder.

Ordering information

<table>
<thead>
<tr>
<th>Bore Size*</th>
<th>AA</th>
<th>E</th>
<th>EE</th>
<th>J</th>
<th>ZJ</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>0.813</td>
<td>0.625</td>
<td>1/8&quot;NPTF</td>
<td>0.19</td>
<td>1.938</td>
</tr>
<tr>
<td>1-1/16&quot;</td>
<td>1.125</td>
<td>0.88</td>
<td>1/8&quot;NPTF</td>
<td>0.19</td>
<td>2.375</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>1.56</td>
<td>0.88</td>
<td>1/8&quot;NPTF</td>
<td>0.250</td>
<td>2.250</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2.08</td>
<td>1.25</td>
<td>1/4&quot;NPTF</td>
<td>0.562</td>
<td>2.875</td>
</tr>
<tr>
<td>2-1/2&quot;</td>
<td>2.62</td>
<td>1.75</td>
<td>1/4&quot;NPTF</td>
<td>0.562</td>
<td>2.875</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3.16</td>
<td>2.00</td>
<td>3/8&quot;NPTF</td>
<td>0.562</td>
<td>3.190</td>
</tr>
</tbody>
</table>
Bumpers

Bumpers are available at extra cost except where noted as standard. Add the following dimensions to the overall cylinder length by bore.

<table>
<thead>
<tr>
<th>SR Bumper Adder Type</th>
<th>SR Series Bore Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylinder Type</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>Spring Return</td>
<td>*</td>
</tr>
<tr>
<td>Spring Extend</td>
<td>*</td>
</tr>
<tr>
<td>Double Acting</td>
<td>*</td>
</tr>
<tr>
<td>K-type</td>
<td>N/A</td>
</tr>
</tbody>
</table>

* Bumpers are furnished as standard and do not affect overall length. ** Bumpers do not affect overall length.

<table>
<thead>
<tr>
<th>SRM Bumper Adder Type</th>
<th>SRM Series Bore Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylinder Type</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>Spring Return</td>
<td>0.062&quot;</td>
</tr>
<tr>
<td>Spring Extend</td>
<td>0.062&quot;</td>
</tr>
<tr>
<td>Double Acting</td>
<td>0.125&quot;</td>
</tr>
<tr>
<td>K-type</td>
<td>0.125&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fluorocarbon Seals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available on all bore sizes at extra cost. Not available on SRM or SRDM series.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stainless Steel Piston Rods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrosion resistant stainless steel is the standard piston rod material for all bore sizes up to and including 1-1/2 inch bore at no additional cost. The only exception to the stainless steel standard is when a hollow rod, KDXH option is specified. Stainless steel is also the standard material on block, trunnion, hex/non-rotating and KDX mounts. Stainless steel is available on other sizes for an additional charge.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rod Wiper</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR/SRM Series cylinders can be fitted with a rod wiper that is specially designed to prevent contaminants from clinging to the piston rod and damaging the piston rod seal. Available in 3/4&quot;, 1-1/16&quot;, and 1-1/2&quot; bores, the piston rod wiper can be added to the SR/SRM and SRD/SRDM series.</td>
</tr>
</tbody>
</table>
Adjustable Cushion Option
Cushions can be selected on nine bore sizes, ranging from 0.75" bore to 3.0" bore with mounting styles D, front nose mount, and DXP, rear pivot mount. Adjustable cushions are not available with double rod SR Series cylinders.

Cushion Adjusting Needle Valves
The fine-thread cushion needle valves make precise adjustment quick and easy. The needle valve is fully captured to allow for safe cushion adjustment while cylinder is pressurized. The brass needle valves are corrosion resistant. The standard position for needle valve adjustments is position 1, 90° from the port. See port location table for SR Series Cylinders.

Check Seal Cushion
The “Check Seal” system offers excellent cushioning efficiency and long cushion seal life. This seal is specifically designed for cushion applications and has a long proven history in our products. Extensive side by side testing of the check seal in SR Series cylinders significantly outlasted and outperformed competitors’ o-ring shaped seals.

The Check Seal’s unique geometry exhibits the dynamic sealing capabilities of a lipseal. As the cushion sleeve enters the Check Seal at the end of stroke, the Check Seal blocks the air from exhausting directly through the port and forces the air through the adjustable needle valve orifice. The exhaust airflow is precisely metered to control the desired rate of deceleration of the cylinder piston.

During stroke reversal, the check valve action of the Check Seal induces a fast out-of-cushion response. The Check Seal floats forward in the retainer groove as the cushion sleeve exits the Cushion Seal, thereby creating a path for maximum air flow around the Check Seal to access the piston face. The quick response of the Check Seal design yields faster cycle times and increased productivity.

Critical Mounting Dimensions for SR Series and SRM Cylinders with Adjustable Cushions
In most cases, cylinder mounting dimensions are not affected when cushions are specified. Standard catalog dimensions apply when cushions are specified at either end of a DXP mount and when specified at the head end only of a D mount. The only exception to standard catalog dimensions is when a cushion is specified on the cap end or both ends of a D mount. Please consult Table A for the critical mounting dimensions on D mount SR and SRM cylinders with cushions both ends or cushions cap end only.
Table B shows the cushion lengths for SR and SRM cylinders.

### Table A:
Critical Mounting Dimensions for D Mount SR and SRM Cylinders with Cushions Both Ends or Cushions Cap End Only.

<table>
<thead>
<tr>
<th>Bore size</th>
<th>SR Dimensions</th>
<th>SRM Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A + Stroke</td>
<td>B</td>
</tr>
<tr>
<td>.75</td>
<td>3.40</td>
<td>0.28</td>
</tr>
<tr>
<td>.88</td>
<td>3.25</td>
<td>0.28</td>
</tr>
<tr>
<td>1.06</td>
<td>3.49</td>
<td>0.28</td>
</tr>
<tr>
<td>1.25</td>
<td>4.31</td>
<td>0.38</td>
</tr>
<tr>
<td>1.50</td>
<td>4.12</td>
<td>0.31</td>
</tr>
<tr>
<td>1.75</td>
<td>5.25</td>
<td>0.42</td>
</tr>
<tr>
<td>2.00</td>
<td>5.06</td>
<td>0.47</td>
</tr>
<tr>
<td>2.50</td>
<td>5.06</td>
<td>0.47</td>
</tr>
<tr>
<td>3.00</td>
<td>5.69</td>
<td>0.53</td>
</tr>
</tbody>
</table>

### Table B:
Cushion Lengths for SR and SRM Cylinders.

<table>
<thead>
<tr>
<th>Bore size</th>
<th>Head</th>
<th>Cap</th>
</tr>
</thead>
<tbody>
<tr>
<td>.75</td>
<td>0.750</td>
<td>0.625</td>
</tr>
<tr>
<td>.88</td>
<td>0.750</td>
<td>0.625</td>
</tr>
<tr>
<td>1.06</td>
<td>0.750</td>
<td>0.625</td>
</tr>
<tr>
<td>1.25</td>
<td>0.750</td>
<td>0.625</td>
</tr>
<tr>
<td>1.50</td>
<td>0.750</td>
<td>0.625</td>
</tr>
<tr>
<td>1.75</td>
<td>0.875</td>
<td>0.625</td>
</tr>
<tr>
<td>2.00</td>
<td>0.875</td>
<td>0.750</td>
</tr>
<tr>
<td>2.50</td>
<td>0.875</td>
<td>0.750</td>
</tr>
<tr>
<td>3.00</td>
<td>0.875</td>
<td>1.000</td>
</tr>
</tbody>
</table>
Piston Rod Clevis
Assembly includes pin and (2) retainer rings and (1) jam nut.

<table>
<thead>
<tr>
<th>Bore size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/16</td>
<td>.50</td>
<td>.40</td>
<td>.62</td>
<td>.38</td>
<td>.12</td>
<td>.04</td>
<td>.16</td>
<td>.12</td>
<td>.12</td>
<td>.26</td>
<td>–</td>
<td>.36 .18</td>
</tr>
<tr>
<td>7/16, 9/16</td>
<td>.76</td>
<td>.56</td>
<td>.75</td>
<td>.50</td>
<td>.12</td>
<td>.06</td>
<td>.19</td>
<td>.20</td>
<td>.160</td>
<td>.28</td>
<td>.50</td>
<td>L07120025</td>
</tr>
<tr>
<td>3/4, 7/8, 1-1/16</td>
<td>.118</td>
<td>.88</td>
<td>.12</td>
<td>.27</td>
<td>.30</td>
<td>.250</td>
<td>.38</td>
<td>1.25</td>
<td>2.00</td>
<td>.38</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-1/2</td>
<td>1.75</td>
<td>1.38</td>
<td>1.50</td>
<td>.100</td>
<td>.25</td>
<td>.25</td>
<td>.27</td>
<td>.37</td>
<td>.375</td>
<td>.62</td>
<td>2.00</td>
<td>L07120025</td>
</tr>
<tr>
<td>2-2/1</td>
<td>1.75</td>
<td>1.38</td>
<td>1.50</td>
<td>.100</td>
<td>.25</td>
<td>.25</td>
<td>.27</td>
<td>.37</td>
<td>.375</td>
<td>.75</td>
<td>2.12</td>
<td>L07120020</td>
</tr>
<tr>
<td>3</td>
<td>.075</td>
<td>1.75</td>
<td>1.75</td>
<td>1.75</td>
<td>.25</td>
<td>.25</td>
<td>.27</td>
<td>.50</td>
<td>.50</td>
<td>.88</td>
<td>2.62</td>
<td>L07130060</td>
</tr>
</tbody>
</table>

Pivot Brackets
Assembly includes pin and (2) retainer rings.

<table>
<thead>
<tr>
<th>Bore size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/16</td>
<td>.76</td>
<td>.56</td>
<td>.75</td>
<td>.50</td>
<td>.12</td>
<td>.06</td>
<td>.19</td>
<td>.20</td>
<td>.160</td>
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<td>.50</td>
<td>.12</td>
<td>L07130100</td>
</tr>
<tr>
<td>3/4, 7/8, 1-1/16</td>
<td>.118</td>
<td>.88</td>
<td>.12</td>
<td>.27</td>
<td>.30</td>
<td>.250</td>
<td>.38</td>
<td>1.25</td>
<td>2.00</td>
<td>.38</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-1/2</td>
<td>1.75</td>
<td>1.38</td>
<td>1.50</td>
<td>.100</td>
<td>.25</td>
<td>.25</td>
<td>.27</td>
<td>.37</td>
<td>.375</td>
<td>.62</td>
<td>2.00</td>
<td>.88</td>
<td>L07130100</td>
</tr>
</tbody>
</table>

SR Series Trunnion Brackets
Select brackets for SR series trunnion mount cylinders from the table below. (Note: trunnion brackets are ordered as a separate item from the cylinder.)

<table>
<thead>
<tr>
<th>Bore size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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* Stainless steel for use with SRD/SRDM cylinders.
Foot Brackets

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* Stainless Steel for use with SRD/SRDM cylinders.

Mounting Nut

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* Stainless Steel for use with SRD/SRDM cylinders.
SRG & SRGM Series

- 304 stainless steel cylinder body, non repairable construction
- 303 Stainless steel heads and caps
- 303 Stainless steel piston rod standard on all bore sizes
- Urethane rod wiper standard
- Available with bumpers and magnetic pistons
- Double acting models only
- Available with Nose, Foot and Pivot Mounts
- Corrosion resistant, reinforced plastic pivot bushing

Operating information

Operating pressure: 250 PSIG (17 bar) for SRG and SRGM
Temperature range: -10°F to 165°F (-23°C to 74°C) for SRG
14°F to 140°F (-10°C to 60°C) for SRGM
Filtration requirements: 40 micron, dry filtered air

Ordering information

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<td>B</td>
<td>With bumpers</td>
<td>V</td>
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Non-Standard Piston Rod

Use “3” only when special piston rod end is required. Specify CC, LE and A Dimensions (See below.)

Non-Standard Rod

Stainless steel piston rod
303 stainless steel is standard on all bore sizes

Special

Use “S” only if special modifications are required, except piston rod end.

Non-Standard Rods

For non-standard rod dimensions, or undersized rod end threads, put a “3” in model number and describe the rod using the letters shown in the drawing. Specify CC, LE and A dimensions. LE is measured in retracted position.

Full diameter rod end threads

Undersized rod end threads

* Requires an S designation in model number.
### Mounting Style D

Nose mount, double acting

#### Round Body Pneumatic Cylinders

**SRG & SRGM Series, Stainless Steel**

**Catalog 0900P-6**

**Parker Pneumatic**

---

### Bore sizes ℹ️

- **3/4"**
- **1-1/16"**
- **1-1/2"**
- **2"**
- **2-1/2"**

* No mounting nuts
† Mounting nuts sold separately for all series SRG

### Bore sizes

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<th>Bore size</th>
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<th>Max. stroke (in)</th>
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<th>AA</th>
<th>B</th>
<th>C</th>
<th>CC</th>
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<td>0.86</td>
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<td>0.250</td>
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### Bore size

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† Mounting nuts sold separately for all series SRG
### Style DXP

Pivot & nose mount, double acting, no pivot pin

![Diagram of Style DXP](image)

#### Bore sizes

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**†** Mounting nuts sold separately for all series SRG

For inventory, lead times, and kit lookup, visit www.pdnplu.com
**Piston Rod Clevis**

Assembly includes pin and (2) retainer rings and (1) jam nut.

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**Pivot Bracket Assembly**

Assembly includes pin and (2) retainer rings.

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Stainless steel.

**Foot Brackets**

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Stainless steel.

**Mounting Nut**

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Stainless steel.
**SRX Series**

**PISTON ROD**
Hard chrome-plated piston rod polished to a 6-10 Ra surface finish with an anodized steel male rod stud for long seal life and minimal surface drag.

**CYLINDER BODY**
304 Stainless Steel cylinder body rated for non-lube service resists corrosion and minimizes maintenance.

**BUSHING**
Oil impregnated bronze rod bushing provides maximum bearing surface area, minimal rod deflection and long service life.

**SEALS**
Standard “LipSeal” piston and rod seal provides maximum sealing capability and long life. Optional low friction piston seal is available.

**OUTBOARD ROD SEAL**
Minimizes dirt and contaminant migration into the cylinder.

**OPTIONAL BUMPERS**
Buna-N bumpers reduce noise and provide cushioning for the most demanding applications.

**END CAPS**
Precision machined aluminum end caps provide excellent corrosion resistance and smooth breakaway.

**LRT**
LRT can be easily removed for maintenance, saving cost of purchasing a new cylinder.

**CONNECTOR**
Optional “flying lead” or 3-pin connector allows maximum flexibility for the end user.

**UNITIZED CONSTRUCTION**
Precision double-rolled unitized construction provides durable, leak proof service and long life.
Features

- Continuous position feedback
- Bore sizes: 1-1/16" to 3"
- Signal input: 5 to 24 VDC
- Signal output (w/o controls): DC ratiometric voltage*
- Signal output (w/controls): 0 to 10 VDC or 4 to 20 mA
- Strokes: Available in any practical stroke length up to 24"

* Mega Ohm impedance interface device suggested for limiting sensor current if controller is not used.

Operating information

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<td>Operating pressure</td>
<td>150 PSIG (10.3 bar)</td>
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<td>Temperature range</td>
<td>40°F to 160°F (4.4°C to 71°C)</td>
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<tr>
<td>Filtration requirements</td>
<td>40 micron, dry filtered air</td>
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Ordering information

```
1.50"  DXP  P  SRX  B  F  S  3  6.00"

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<th>2.50&quot;</th>
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<td>F Flying leads</td>
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<td></td>
</tr>
<tr>
<td>Mounting style</td>
<td>D Nose mount</td>
<td>DXP Nose and pivot mount</td>
<td>BFD Front block mount</td>
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<td></td>
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<tr>
<td>Piston</td>
<td>B Bumper*</td>
<td></td>
<td></td>
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<tr>
<td>Special</td>
<td>S Special</td>
<td></td>
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<td>Non-standard rod dimension</td>
<td>3 Non-standard dimension</td>
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<td></td>
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</tr>
<tr>
<td>Stroke</td>
<td>Stroke in inches</td>
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</tr>
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Sensors

See section L for sensors.
```

For ordering purposes, when special options or common modifications are requested, the factory will assign a sequential part number in place of the model number.

Non-standard rods

For non-standard rod dimensions, or undersized rod end threads, put a "3" in model number and describe the rod using the letters shown in the drawing. It is necessary to specify only those dimensions that are non-standard.

LE is measured in retracted position.

```
Full diameter rod end threads

Undersized rod end threads
```

* Requires an “S” designation in model number.
Round Body Pneumatic Cylinders
SRX Series, Stainless Steel

General Specifications

- Bore sizes: 1-1/16", 1-1/2", 2", 2-1/2", 3"
- Rod sizes: 0.38" – 0.75"
- Rod ends: Standard male
- Mounts: – Nose mount (D)
  – Front block mount (BFD)
  – Nose and pivot mount (DXP)
- Rated air pressure: 150 PSI Air
- Standard temperature: 40°F to 160°F
- Strokes: Available in any practical stroke length up to 24"
- Bumpers: Optional

Available Mountings

- Style D
  Nose Mount
- Style BFD
  Front Block Mount
- Style DXP
  Nose and Pivot Mount

Theory of Operation

The SRX Series Linear Resistive Transducer (LRT) is a position sensor that uses a resistive element, and wiper assembly, to provide a continuous analog output signal relative to the cylinders position. The LRT is a single element type linear potentiometer, with two independent elements mounted on either side of an anodized aluminum extrusion. The LRT operates as a voltage divider by creating a short between the wiper extrusion and the wiper assembly. The position of the wiper changes the resistive load proportionally to its position along the stroke length of the cylinder.

Suppling a 5 to 24VDC voltage energizes the LRT. As the cylinder travels through its range of stroke, the resistive load changes, thus causing a proportional voltage output change of the LRT. The output voltage, at the endpoint of cylinder stroke, is dictated by the input voltage applied across the device. The probe is mounted into the cap end of the cylinder and inserted into the hollow piston rod assembly. When replacing the probe, care must be taken to align the wiper block with the profile of the LRT extrusion. Please review the above schematic and cutaway drawing for reference purposes.
MLRT

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<th>Specification</th>
<th>Details</th>
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<tr>
<td>Repeatability</td>
<td>±0.001&quot; (interface electronics dependent)</td>
</tr>
<tr>
<td>Non Linearity</td>
<td>±1% of Full stroke (18&quot; stroke max.)</td>
</tr>
<tr>
<td>Resolution</td>
<td>Infinite</td>
</tr>
<tr>
<td>Signal Input</td>
<td>5 to 24 VDC</td>
</tr>
<tr>
<td>Signal Output (w/o controls):</td>
<td>DC ratiometric voltage*</td>
</tr>
<tr>
<td>Signal Output (w/ controls):</td>
<td>0 to 10 VDC or 4 to 20 mA</td>
</tr>
<tr>
<td>Maximum Speed</td>
<td>50&quot; per second</td>
</tr>
<tr>
<td>Rated Life of MLRT</td>
<td>500 Million inches of wiper travel</td>
</tr>
<tr>
<td>Pressure Rating</td>
<td>150 psi</td>
</tr>
<tr>
<td>Temperature Rating</td>
<td>40°F to 165°F</td>
</tr>
<tr>
<td>Resistance Rating</td>
<td>1,000 Ohms per inch ±20%</td>
</tr>
<tr>
<td>Connection Options</td>
<td>6&quot; Flying leads or 3-pin nano connector</td>
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</tbody>
</table>

* 1 Mega Ohm impedance interface device suggested for limiting sensor current if the controller is not used.

---

MLRT Circuit Diagram

- **OUTPUT SIGNAL (White)**
- **GROUND (Black)**
- **INPUT VOLTAGE (Red)**

**STROKE = RETRACTED; OUTPUT VOLTAGE = 0 VOLTS (Approx.)**

**STROKE = EXTENDED; OUTPUT VOLTAGE = MAXIMUM INPUT VOLTAGE (Approx.)**

---

MLRT Replacement Kits

For each MLRT replacement kit order, please specify the part number listed below along with the cylinder stroke length and quantity.

A Service Bulletin is included with each kit.

**MLRT with Flying Leads**
- Part #L07831
- Example: L07831, 6" Stroke, Qty. 1

**MLRT with Plug Connector**
- Select part number from table
- Example: L078320000, 4" Stroke, Qty. 1

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<th>Mount</th>
<th>Plug connector MLRT kit part number</th>
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1-1/16" Bore Cylinders

Style D

Style DXP

Style BFD
1-1/2" Bore Cylinders

Style D

Style DXP

Style BFD
Catalog 0900P-6

Dimensions - 2" Bore Cylinders

For inventory, lead times, and kit lookup, visit www.pdnplu.com

2" Bore Cylinders

Style D

Style DXP

Style BFD
Dimensions - 2-1/2" Bore Cylinders

2-1/2" Bore Cylinders

Style D

Style DXP

Style BFD
Dimensions - 3" Bore Cylinders

Round Body Pneumatic Cylinders
SRX Series, Stainless Steel

3" Bore Cylinders

Style D

Style DXP

Style BFD
Round Body Pneumatic Cylinders
SRX Series, Stainless Steel

Piston Rod Clevis

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Mounting Nut

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Most popular.

For inventory, lead time, and kit lookup, visit www.pdnplu.com
Catalog 0900P-6
Connector Options

3-pin Nano Connector

### Wire Color

<table>
<thead>
<tr>
<th>Wires</th>
<th>6&quot; Leads</th>
<th>Plug option</th>
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<td>Input</td>
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<td>Brown</td>
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<td>Output</td>
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<td>Black</td>
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### Connectors

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<th>Cable Length</th>
<th>Threaded straight connector</th>
<th>Threaded right angle connector</th>
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</thead>
<tbody>
<tr>
<td>5 meters</td>
<td>086620T005</td>
<td>086620R005</td>
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<tr>
<td>2 meters</td>
<td>086620T002</td>
<td>086620R002</td>
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### Straight Connector

![Straight Connector Diagram]

### Right-angle Connector

![Right-angle Connector Diagram]
Catalog 0900P-6  
Electrical Accessories  

Round Body Pneumatic Cylinders  
SRX Series, Stainless Steel

Dual Set Point Controller, Part #149344000

Ordering Information

<table>
<thead>
<tr>
<th>Input Specification</th>
<th>Output Specification</th>
<th>Part Number</th>
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</thead>
<tbody>
<tr>
<td>120 VAC 0-10 V</td>
<td>1493440002</td>
<td></td>
</tr>
<tr>
<td>120 VAC 4-20 mA</td>
<td>1493440003</td>
<td></td>
</tr>
<tr>
<td>12-24 VDC 0-10 V</td>
<td>1493440004</td>
<td></td>
</tr>
<tr>
<td>12-24 VDC 4-20 mA</td>
<td>1493440005</td>
<td></td>
</tr>
</tbody>
</table>

Specifications

- Power Input Requirements: 12 to 24 VDC, 0.1 amps, or 120 VAC, 60 Hz, 0.1 amps
- Output specifications – Set Point: Relay (2) 2 amps @ 24 VDC or 120 VAC
- Output Specifications – Scalable: 0 to 10 V, 1 mA max. output current (10K ohm impedance min.) 4 to 20mA, into 500-ohm max. impedance
- Maximum Zero Offset: 50% of cylinder stroke
- Minimum Span Range: 50% of cylinder stroke
- Enclosure Dimensions: 1.31" h x 5.50" w x 3.25" d
- Electronics Temperature Operating Range: 40°F to 160°F

Please reference Parker Bulletin #0971-G-B2 for information regarding programming and operation of this controller.
The Parker P1A series of pneumatic cylinders are intended for use in a wide range of applications. These cylinders are particularly suitable for lighter duties in the packaging, food and textile industries. Hygienic design, the use of corrosion-resistant materials and initial lubrication with our food-grade grease makes the cylinders suitable for food industry applications.

Proven design and high quality manufacturing throughout ensure long service life and optimum performance.

Mounting dimensions are in accordance with ISO 6432 and CETOP RP52P. This greatly simplifies installation and worldwide interchangeability.

The Mini ISO range is available with bumpers or adjustable pneumatic cushioning. Controlled by simple bleed screws for fine adjustment, the adjustable cushioned cylinders can be operated with higher mass loads and at higher speeds than those with fixed end cushioning bumpers.

The Mini ISO range is also available in an all-stainless version with piston rod, cylinder body and end covers of stainless steel for use in extremely severe environments. Consult the Wadsworth, Ohio facility for more information.

A complete range of sensors for proximity sensing is available as accessories: both reed and solid state sensors are available. Either can be supplied with flying leads or cable and multi-pin connector. See Electronic Sensors section for specifications and part numbers.
### Round Body Pneumatic Cylinders
#### P1A Series, Mini ISO 6432 Stainless Steel

**Features**
- Conforms to ISO 6432 and CETOP RP52P standards
- 5 bore sizes, 10mm to 25mm
- Stainless steel body with black anodized aluminum end caps
- Stainless steel piston rod
- Magnetic piston and bumpers standard

### Catalog 0900P-6

**Ordering information**

**Cylinder type / function**
- **M**: Double-acting, adjustable cushioning, Ø16-25 mm. Not for sealing material type F.
- **D**: Double-acting, bumpers, Ø10 - Ø25
- **F**: Double-acting, adjustable cushioning, double rod, Ø16-25 mm. Not for sealing material type F.
- **K**: Double-acting, bumpers, double rod, Ø10 - Ø25
- **S**: Single-acting, bumpers, spring return for retract stroke, Ø10-25 mm
- **T**: Single-acting, bumpers, spring extend for advance stroke, Ø16-25 mm

**Sealing material**
- **S**: Standard -20°C to 80°C (-4°F to 176°F)
- **M**: Magnetic piston
- **F**: High temperature: Ø12 mm, 16 mm, 20 mm and 25 mm -10°C to 150°C, (14°F to 302°F)
- **V**: External seals of fluorinated rubber -20°C to +80°C (-4°F to 176°F)
- **N**: Magnetic piston

### Stroke Lengths

<table>
<thead>
<tr>
<th>Cylinder model</th>
<th>Bore size</th>
<th>Stroke Length (* = standard, * = non-standard, blank = N/A)</th>
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<tbody>
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<td>* * * * * * * * * * * * * * * * * * * * * * * * *</td>
</tr>
</tbody>
</table>

* Standard stroke lengths in mm according to ISO 4393
** Not for the TS version

**Filtration requirements**: 40 micron, dry filtered air

**Sensors**
See section L for sensors.
Round Body Pneumatic Cylinders
P1A Series, Mini ISO 6432 Stainless Steel

Standard Specifications
- Working pressure max 10 bar (145 PSI)
- Working temperature max 80°C (176°F)
  min -20°C (4°F)
- High-temperature version max 150°C (Ø20 and 25 mm) 302°F
  min 120°C (Ø10, 12 and 16 mm) 248°F
- Prelubricated, further lubrication is not normally necessary.
- If additional lubrication is introduced it must be continued.

Material Specification
Piston rod Stainless steel, DIN X 10 CrNiS 18 9
Piston rod seal Fluorocarbon rubber FPM
Piston rod bearing Multilayer PTFE/steel
End covers Anodized aluminium
O-ring, internal Nitrile rubber, NBR
Cylinder barrel Stainless steel, DIN X 5 CrNi 18 10
Piston, complete Nitrile rubber, NBR/steel
Magnet holder Thermoplastic elastomer
Magnet Plastic-coated magnetic material
Return spring Surface-treated steel
Cushioning screw Stainless steel, DIN X 10 CrNiS 18 9

Cylinders are supplied complete with nose mounting and piston rod nuts.
Cylinders with double piston rods are supplied with two piston rod nuts.

Quick Reference

<table>
<thead>
<tr>
<th>Model #</th>
<th>Cylinder</th>
<th>Piston rod</th>
<th>Total weight at 0mm stroke (lbs)</th>
<th>Additional weight per 10mm stroke (lbs)</th>
<th>Air consumption</th>
<th>Port size</th>
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<tr>
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<tr>
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<tr>
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<td>3.14</td>
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<td>0.50</td>
<td>M8</td>
<td>0.40</td>
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<td>25</td>
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<td>M10x1.25</td>
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<td>M8</td>
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<td>M10x1.25</td>
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† Free air consumption per 10 mm stroke length for a double stroke at 6 bar (87 PSI)
## Cylinder Forces

Indicated cylinder forces are theoretical and should be reduced according to the working conditions.

### Double Acting

<table>
<thead>
<tr>
<th>Model number</th>
<th>Bore size mm</th>
<th>Theoretical Piston Force (lbs) at 6 bar (87 PSI)</th>
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<td>26.98</td>
</tr>
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<td>66.10</td>
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<td>P1A-S 016 M</td>
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<td>26.98</td>
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<td>42.27</td>
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<td>66.10</td>
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### Single Acting

<table>
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<th>Model number</th>
<th>Stroke</th>
<th>Theoretical piston force (lbs) at 6 bar (87 PSI)</th>
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<td></td>
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<td>lbs. max</td>
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<td>25</td>
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</tr>
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</tr>
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<td>8.7</td>
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<td>80</td>
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<td>15</td>
<td>11.9</td>
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<td>25</td>
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<td>40</td>
<td>11.9</td>
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<td></td>
<td>50</td>
<td>11.9</td>
</tr>
<tr>
<td></td>
<td>80</td>
<td>12.3</td>
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<td>40</td>
<td>23.8 (20.3)</td>
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<td>24.2 (20.4)</td>
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<td>80</td>
<td>24.0 (21.3)</td>
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<td>15</td>
<td>36.6 (29.8)</td>
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<td>37.5 (30.3)</td>
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<td></td>
<td>40</td>
<td>37.3 (31.0)</td>
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<td>37.7 (31.4)</td>
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<td></td>
<td>80</td>
<td>38.2 (31.2)</td>
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<td>58.0 (46.5)</td>
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<td>25</td>
<td>58.9 (47.2)</td>
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<td></td>
<td>40</td>
<td>58.7 (48.1)</td>
</tr>
<tr>
<td></td>
<td>50</td>
<td>59.4 (48.8)</td>
</tr>
<tr>
<td></td>
<td>80</td>
<td>59.4 (50.1)</td>
</tr>
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</table>
Cushioning

Use the diagram below to determine the necessary size of cylinder to provide the requisite cushioning performance. The maximum cushioning performance, as indicated in the diagram, is based on the following assumptions:
- Low load, i.e. low pressure drop across the piston
- Steady-state piston speed
- Correctly adjusted cushioning screw

The load is the sum of the internal and external friction, together with any gravity forces. At high relative loading it is recommended that, for a given speed, the load should be reduced by a factor of 2.5, or that, for a given mass, the speed should be reduced by a factor of 1.5. These factors apply in relation to the maximum performance as shown in the diagram.

Fixed End-Cushioning (Bumpers)

Double-acting cushioned cylinders

Adjustable pneumatic cushioning permits greater loads and higher operating speeds, making the cylinders suitable for more demanding applications.

These cylinders are available in bores of 16, 20 and 25 mm, with stroke lengths from 20 mm to 500 mm.
### Round Body Pneumatic Cylinders

#### P1A Series, Mini ISO 6432 Stainless Steel

**Double acting cylinders**

<table>
<thead>
<tr>
<th>Bore size (mm)</th>
<th>AM</th>
<th>BE</th>
<th>AF</th>
<th>BF</th>
<th>C</th>
<th>CD&lt;sub&gt;18&lt;/sub&gt;</th>
<th>EE</th>
<th>EW</th>
<th>H</th>
<th>KK</th>
<th>L</th>
<th>SW</th>
<th>WH</th>
<th>WH,±&lt;sub&gt;1&lt;/sub&gt;</th>
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<tbody>
<tr>
<td>10</td>
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<td>M12x1.25</td>
<td>12</td>
<td>10</td>
<td>14.0</td>
<td>4</td>
<td>M5</td>
<td>8</td>
<td>16.7</td>
<td>M4</td>
<td>6</td>
<td>–</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>16</td>
<td>M10x1.5</td>
<td>18</td>
<td>13</td>
<td>18.0</td>
<td>6</td>
<td>M5</td>
<td>12</td>
<td>19.1</td>
<td>M6</td>
<td>9</td>
<td>5</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>16&lt;sup&gt;1)&lt;/sup&gt;</td>
<td>16</td>
<td>M10x1.5</td>
<td>18</td>
<td>13</td>
<td>18.0</td>
<td>6</td>
<td>M5</td>
<td>12</td>
<td>19.1</td>
<td>M6</td>
<td>9</td>
<td>5</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>16&lt;sup&gt;2)&lt;/sup&gt;</td>
<td>16</td>
<td>M10x1.5</td>
<td>18</td>
<td>13</td>
<td>25.0</td>
<td>6</td>
<td>M5</td>
<td>12</td>
<td>24.0</td>
<td>M6</td>
<td>9</td>
<td>5</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>20</td>
<td>M22x1.5</td>
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<td>G1/8</td>
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<td>24</td>
<td></td>
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<td>M22x1.5</td>
<td>22</td>
<td>14</td>
<td>27.5</td>
<td>8</td>
<td>G1/8</td>
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<td>29.0</td>
<td>M10x1.25</td>
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<td>9</td>
<td>28</td>
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1) P1A-S076DS/SS/TS  
2) P1A-S076MS

**Double acting cylinders**

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<tr>
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<th>ZJ</th>
<th>P</th>
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<td>84 + stroke</td>
<td>46 + stroke</td>
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<tr>
<td>12</td>
<td>75 + stroke</td>
<td>99 + stroke</td>
<td>48 + stroke</td>
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<tr>
<td>16</td>
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<td>25</td>
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<td>132 + stroke</td>
<td>68 + stroke</td>
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**Single-acting, spring return, type SS**

<table>
<thead>
<tr>
<th>Bore size (mm)</th>
<th>XC (mm) at various strokes</th>
<th>ZJ (mm) at various strokes</th>
<th>P (mm) at various strokes</th>
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<td>10 15 25 40 50 80</td>
<td>10 15 25 40 50 80</td>
<td>10 15 25 40 50 80</td>
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<tr>
<td>12</td>
<td>74 79 89 126 136 174</td>
<td>94 99 109 146 156 194</td>
<td>56 61 71 108 118 156</td>
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<td>16</td>
<td>85 90 100 132 142 185</td>
<td>109 114 124 156 166 209</td>
<td>58 63 73 105 115 158</td>
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<tr>
<td>20</td>
<td>92 97 107 122 132 184</td>
<td>114 119 129 144 154 206</td>
<td>63 68 78 93 103 155</td>
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<td>25</td>
<td>105 110 120 135 145 191</td>
<td>135 140 150 165 175 221</td>
<td>77 82 92 107 117 163</td>
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**Single-acting, spring-extended, type TS**

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<th>ZJ&lt;sup&gt;3)&lt;/sup&gt; (mm) at various strokes</th>
<th>P (mm) at various strokes</th>
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<tr>
<td>16</td>
<td>107 112 122 137 147 –</td>
<td>129 134 144 159 169 –</td>
<td>78 83 93 108 118 –</td>
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<td>120 125 135 150 160 195</td>
<td>150 155 165 180 190 225</td>
<td>92 97 107 122 132 167</td>
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<tr>
<td>25</td>
<td>129 134 144 159 169 205</td>
<td>157 162 172 187 197 233</td>
<td>93 98 108 123 133 169</td>
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3) With piston rod retracted, as shown in the dimension drawing.

Length tolerances ±1 mm  
Stroke length tolerance ±1.5/0 mm
Flange - MF8

<table>
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<tr>
<th>Cylinder Œ mm</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Weight lbs</th>
<th>Part number</th>
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Most popular.
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**Swivel Rod Eye**

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**Rod Nut**

Stainless Steel, DIN x 5 CrNi 18 10

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Most popular,
**P Series**

**Features**

1. **Heads and Caps** are lightweight aluminum for maximum corrosion resistance. The cap is provided with a steel pivot bushing.

2. **Cylinder Body** is hard anodized aluminum for corrosion and abrasion resistance. The smooth I.D. finish provides long seal life.

3. **The Piston** is available with either O-Ring or Lipseal® design.

4. **Piston Rod** is chrome plated steel.* The piston is secured to the rod with anaerobic adhesive. Full diameter threads are provided for maximum strength. Wrench flats are standard.

5. **Adjustable Cushions** are available on 2" thru 4" bore sizes, while fixed cushions are available on 1-1/8" and 1-1/2" bore sizes.

6. **The Cushion Adjustment Needle** is recessed and retained for precise, safe adjustment on all adjustable cushions.

7. **The wear-compensating Rod Seal** design conforms to pressure variations and provides maximum seal life.

8. **High Strength Steel Retaining Snap Ring** (210,000 PSI ultimate) is precision made to securely lock the head and cap in place. Easily removed for quick disassembly.

9. **O-Ring Static Tube Seal** is standard for positive no-leak sealing.

10. **Rod Bearing** is low friction bronze for high performance and longer wear.

---

* 1-1/8" bore has standard 416 stainless steel piston rod material.
Round Body Pneumatic Cylinders

P Series, Aluminum

- Repairable design, aluminum construction
- 6 bore sizes: 1-1/8" to 4"
- Double-acting, spring-return and spring-extend models
- Cushions optional at either or both ends
- Universal nose and tang mounts
- Standard stroke lengths to 20 inches in one inch increments, plus 1-1/2", 2-1/2" and 3-1/2" strokes. Fraction strokes and strokes over 20 inches are available upon request.

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Ordering information

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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOTE: Do not use symbol &quot;S&quot; for rod end modification.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rod diameter style</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Standard</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For double rod cylinders specify rod code twice.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensors</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>See section L for sensors.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For ordering purposes, when special options or common modifications are requested, the factory will assign a sequential part number in place of the model number.

Notes:
1 Must specify lipseal piston with magnet option.
2 Standard on 1-1/8" bore. (D) not required.
### Specifications

- Nominal pressure – up to 150 PSI air
- Repairable design
- Bore sizes: 1-1/8", 1-1/2", 2", 2-1/2", 3", and 4"
- Double-acting, Spring-return and Spring-extend models
- Cushions optional at either or both ends
- Universal nose and tang mounts
- Factory pre-lubricated
- Standard temperature range: -10°F to 165°F; fluorocarbon seals for operation up to 250°F are available at extra cost.
- Standard stroke lengths to 20 inches in one inch increments, plus 1-1/2", 2-1/2", and 3-1/2" strokes. Fraction strokes and strokes over 20 inches are available upon request.

### Mounting Styles Available

**Model P** – O-Ring Piston – Single Rod  
1-1/8" Bore thru 3" Bore  
Model PL – Lipseal Piston – Single Rod  
1-1/8" Bore thru 4" Bore

**Model AP** – O-Ring Piston – Single Rod  
1-1/8" Bore thru 3" Bore  
Model APL – Lipseal Piston – Single Rod  
1-1/8" Bore thru 4" Bore

**Model KP** – O-Ring Piston – Double Rod  
1-1/8" Bore thru 3" Bore  
Model KPL – Lipseal Piston – Double Rod  
1-1/8" Bore thru 4" Bore

**Model PR** – O-Ring Piston – Spring Return  
1-1/8" Bore thru 3" Bore  
Model PE – O-Ring Piston – Spring Extend  
1-1/8" Bore thru 3" Bore  
Model PLR – Lipseal Piston – Spring Return  
1-1/8" Bore thru 4" Bore  
Model PLE – Lipseal Piston – Spring Extend  
1-1/8" Bore thru 4" Bore

### Force Data

(to determine force multiply operating pressure by area figures below)

<table>
<thead>
<tr>
<th>Bore size</th>
<th>Rod dia.</th>
<th>Major area (sq. in.)</th>
<th>Minor area (sq. in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/8&quot;</td>
<td>3/8&quot;</td>
<td>0.992</td>
<td>0.882</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>1/2&quot;</td>
<td>1.766</td>
<td>1.570</td>
</tr>
<tr>
<td>2&quot;</td>
<td>5/8&quot;</td>
<td>3.141</td>
<td>2.835</td>
</tr>
<tr>
<td>2-1/2&quot;</td>
<td>3/4&quot;</td>
<td>4.906</td>
<td>4.464</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3/4&quot;</td>
<td>7.065</td>
<td>6.623</td>
</tr>
<tr>
<td>4&quot;</td>
<td>1&quot;</td>
<td>12.560</td>
<td>11.775</td>
</tr>
</tbody>
</table>

### Cylinder Cushion Lengths

<table>
<thead>
<tr>
<th>Bore</th>
<th>Head</th>
<th>Cap</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/8&quot;</td>
<td>0.560&quot;</td>
<td>0.560&quot;</td>
</tr>
<tr>
<td>1-1/2&quot; &amp; 2&quot;</td>
<td>0.750&quot;</td>
<td>0.750&quot;</td>
</tr>
<tr>
<td>2-1/2&quot; &amp; 3&quot;</td>
<td>0.875&quot;</td>
<td>0.875&quot;</td>
</tr>
<tr>
<td>4&quot;</td>
<td>1.250&quot;</td>
<td>1.250&quot;</td>
</tr>
</tbody>
</table>

---

**DANGER**

The piston to rod threaded connection is secured with an anaerobic adhesive which is temperature sensitive. Operating cylinders in excess of the following recommendations can cause the piston and piston rod assembly to unthread. Cylinders ordered with standard seals (Buna-N) are assembled with an anaerobic adhesive with a maximum operating temperature rating of 165°F. Cylinders ordered with Fluorocarbon seals are assembled with an anaerobic adhesive with a maximum operating temperature rating of 250°F.

Cylinders originally manufactured with standard seals (Buna-N) that will be exposed to an ambient temperature above 165°F must be modified for higher temperature service. Contact your local factory immediately and arrange for the piston to piston rod connection to be properly modified for the higher temperature service.
Model P

O-ring piston – single rod

Model P cylinders are available without tang covered by dimension E minus HH at no extra charge. To order specify Model NP.

Model KP

O-ring piston – double rod

Mounting nuts not supplied with cylinder.

Model P and KP single and double rod cylinders

<table>
<thead>
<tr>
<th>Bore Size</th>
<th>Rod Dia.</th>
<th>LB</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>A</th>
<th>O</th>
<th>Z</th>
<th>AA</th>
<th>BB</th>
<th>CC</th>
<th>FF</th>
<th>HH</th>
<th>JJ</th>
<th>LE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2</td>
<td>1/2</td>
<td>2-5/8</td>
<td>1</td>
<td>1-3/8</td>
<td>7/8</td>
<td>1-1/4</td>
<td>7/8</td>
<td>1/2</td>
<td>1-7/16</td>
<td>1-1/4</td>
<td>1-1/16</td>
<td>5/16</td>
<td>1/4</td>
<td>1-14</td>
<td>2-1/2-13</td>
<td>4-3/8</td>
<td>1/8</td>
<td>4-3/8</td>
<td>2-5/16</td>
</tr>
</tbody>
</table>

Note: 4" bore size offered only with Lipseal Piston.
FLUOROCARBON SEALS for operation to 250°F are available at extra cost. Specify model PV or KPV.
Model PL

Lipseal piston – single rod

Model PL cylinders are available without tang covered by dimension E minus HH at no extra charge. To order specify Model NPL.

Model KPL

Lipseal piston – double rod

Mounting nuts not supplied with cylinder.

Model PL and KPL single and double rod cylinders

<table>
<thead>
<tr>
<th>Bore Size</th>
<th>Rod Dia.</th>
<th>LB₁</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>A</th>
<th>O</th>
<th>Z</th>
<th>AA</th>
<th>BB</th>
<th>CC</th>
<th>GG</th>
<th>HH</th>
<th>KK</th>
<th>LE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2</td>
<td>1/2</td>
<td>3-5/8</td>
<td>1/2</td>
<td>1-3/4</td>
<td>7/8</td>
<td>1-1/4</td>
<td>7/8</td>
<td>1/2</td>
<td>1-7/16</td>
<td>1-1/4</td>
<td>1-1/16</td>
<td>5/16</td>
<td>1/4</td>
<td>1-14</td>
<td>1-2-13</td>
<td>5-3/8</td>
<td>1/8</td>
<td>5-3/8</td>
<td>2-5/16</td>
</tr>
<tr>
<td>2</td>
<td>5/8</td>
<td>3-5/8</td>
<td>1/2</td>
<td>2-1/4</td>
<td>7/8</td>
<td>1-1/4</td>
<td>7/8</td>
<td>1/2</td>
<td>1-7/16</td>
<td>1-1/4</td>
<td>1-1/16</td>
<td>5/16</td>
<td>1/4</td>
<td>1-14</td>
<td>5-8-11</td>
<td>5-3/8</td>
<td>1/8</td>
<td>4-3/8</td>
<td>2-5/16</td>
</tr>
<tr>
<td>3</td>
<td>3/4</td>
<td>4</td>
<td>5/8</td>
<td>3-1/4</td>
<td>1</td>
<td>2</td>
<td>1-3/8</td>
<td>5/8</td>
<td>1-11/16</td>
<td>1-1/2</td>
<td>2-1/3</td>
<td>3/8</td>
<td>1-3-8-12</td>
<td>3/4-10</td>
<td>6-3/8</td>
<td>3/16</td>
<td>6</td>
<td>2-11/16</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>5-1/2</td>
<td>15/16</td>
<td>4-3/8</td>
<td>1-1/8</td>
<td>2-3/16</td>
<td>1-7/16</td>
<td>3/4</td>
<td>2-1/4</td>
<td>1-7/8</td>
<td>1-3/4</td>
<td>1/2</td>
<td>1/2</td>
<td>1-3-4-12</td>
<td>1-14</td>
<td>8-1/16</td>
<td>3/16</td>
<td>7-1/4</td>
<td>3-3/8</td>
</tr>
</tbody>
</table>

FLUOROCARBON SEALS for operation to 250°F are available at extra cost. Specify model PLV or KPLV.
Model AP

O-ring piston – single rod
1-1/8" bore thru 3" bore

Model APL

Lipseal piston – single rod
1-1/8" bore thru 4" bore

Mounting nuts not supplied with cylinder.

Models AP and APL only

| Bore Size | Rod Dia. | LB | B | C | D | E | F | H | H1 | A | K | L | M1 | O | P | V | Z | AA | BB | CC | HH | LE | LE1 |
|-----------|----------|----|---|---|---|---|---|---|---|---|---|---|----|---|---|---|---|----|----|---|---|---|---|---|---|
| 1-1/2     | 1/2      | 2-5/8 | 3-5/8 | 1/2 | 1-3/4 | 7/8 | 1-5/8 | 15/16 | 2-7/16 | 1-7/16 | 1-1/4 | 1-1/4 | 1/2 | 7-1/8 | 6-7/8 | 1-1/16 | 1-1/4 | 1-1/2 | 3/8 | 1/4 | 1-14 | 1/2-13 | 1/8 | 3-5/16 | 2-5/16 |
| 2         | 5/8      | 2-5/8 | 3-5/8 | 1/2 | 2-1/4 | 7/8 | 1-7/8 | 1-9/16 | 2-7/16 | 1-7/16 | 1-1/4 | 1-1/2 | 1/2 | 7-1/2 | 7-1/2 | 1-1/16 | 1-1/16 | 1-1/2 | 1/2 | 1-14 | 5/8-11 | 1/8 | 3-5/16 | 2-5/16 |
| 4         | 1        | 5-1/2 | 15-16 | 4-3/8 | 1-1/8 | 2-7/8 | 1-7/8 | 2-1/4 | 1-7/8 | 2-1/4 | 3/4 | 3-3/4 | 2-1/2 | 3-4/12 | 1-14 | 3-16 | 3-3/8 | 1 | 1-7/8 | 2-1/4 | 3/4 | 1/2 | 3-4-12 | 1-14 | 3-16 | 3-3/8 | 1 |

FLUOROCARBON Seals for operation to 250°F are available at extra cost. Specify model ASPV or ASPLV.
Spring return cylinders are available without tail section covered by dimension E minus HH at no extra charge. To order, add letter “N” to model number.

Model PLR – Spring return
Model PLE – Spring extend

Lipseal piston

Mounting nuts not supplied with cylinder.

For single rod spring return cylinders up to 6” stroke (no load spring)

<table>
<thead>
<tr>
<th>Bore Size</th>
<th>Rod Dia.</th>
<th>LL + (Stroke x 2)</th>
<th>AA NPTF</th>
<th>O Dia.</th>
<th>B Bore</th>
<th>C Dia.</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>O Ring</th>
<th>Z Dia.</th>
<th>CC Thread</th>
<th>HH</th>
<th>MM + (Stroke x 2)</th>
<th>B</th>
<th>Z Dia.</th>
<th>C Dia.</th>
<th>AA NPTF</th>
<th>B Bore</th>
<th>O Dia.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2</td>
<td>1/2</td>
<td>2-5/8</td>
<td>3-5/8</td>
<td>1/2</td>
<td>1-3/4</td>
<td>7/8</td>
<td>1</td>
<td>1-1/4</td>
<td>7/8</td>
<td>1/2</td>
<td>1-7/16</td>
<td>1-1/4</td>
<td>1-1/16</td>
<td>5/16</td>
<td>1/4</td>
<td>1-14</td>
<td>1/2-13</td>
<td>1-14</td>
<td>1/8</td>
<td>4-3/8</td>
<td>5-3/8</td>
<td>2-5/16</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>1</td>
<td>5-1/2</td>
<td>15/16</td>
<td>4-3/8</td>
<td>1-1/8</td>
<td>2-3/16</td>
<td>1-7/16</td>
<td>3/4</td>
<td>1/2</td>
<td>1-7/8</td>
<td>1-3/8</td>
<td>1/2</td>
<td>1/2</td>
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<td>3-3/8</td>
<td>50</td>
<td>148</td>
<td></td>
</tr>
</tbody>
</table>

▲ 4” bore spring return cylinders, available only with lipseal type piston.
** Net stroke plus stop tube = gross stroke.

FLUOROCARBON SEALS for operation to 250°F are available at extra cost. Specify model PVR, PVE, PLVR or PLVE.

* Dimensions shown are for cylinder with no load spring. For heavier springs or double rod spring return cylinders, consult factory.
Foot and Flange Mounts

<table>
<thead>
<tr>
<th>Bore size</th>
<th>D</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
<th>P</th>
<th>R</th>
<th>S</th>
<th>U</th>
<th>G</th>
<th>H</th>
<th>NN</th>
<th>RR</th>
<th>SS</th>
<th>Foot mount*</th>
<th>Flange mount**</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-1/2</td>
<td>1</td>
<td>4-1/2</td>
<td>3-3/8</td>
<td>1-29/32</td>
<td>2-1/4</td>
<td>1-3/8</td>
<td>1-1/4</td>
<td>7/8</td>
<td>2-3/8</td>
<td>13/32</td>
<td>3-9/16</td>
<td>3/16</td>
<td>1-5/8</td>
<td>5-1/2</td>
<td>1-1/4</td>
<td>L069210000</td>
<td>L069250000</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>4-1/2</td>
<td>3-3/8</td>
<td>1-29/32</td>
<td>2-1/4</td>
<td>1-3/8</td>
<td>1-1/4</td>
<td>7/8</td>
<td>2-3/8</td>
<td>13/32</td>
<td>3-9/16</td>
<td>3/16</td>
<td>1-5/8</td>
<td>5-1/2</td>
<td>1-1/4</td>
<td>L069210000</td>
<td>L069250000</td>
</tr>
<tr>
<td>4</td>
<td>1-1/8</td>
<td>5/16</td>
<td>1/4</td>
<td>2-17/32</td>
<td>3-1/4</td>
<td>1-3/4</td>
<td>1-3/4</td>
<td>1-5/16</td>
<td>3-3/16</td>
<td>15/32</td>
<td>4-13/16</td>
<td>3/32</td>
<td>2-3/16</td>
<td>9</td>
<td>2-7/8</td>
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<td>L069260000</td>
</tr>
</tbody>
</table>

▲ Dimension shown is for lipseal piston type.

* Part number includes one foot mounting and one mounting nut.
** Includes mounting nut.

Clevis Bracket

<table>
<thead>
<tr>
<th>Bore size</th>
<th>G</th>
<th>S</th>
<th>T</th>
<th>U</th>
<th>V</th>
<th>Z</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/8</td>
<td>3/8</td>
<td>1-9/32</td>
<td>2-1/4</td>
<td>9/32</td>
<td>1-3/4</td>
<td>1/4</td>
<td>L067300000</td>
</tr>
<tr>
<td>1-1/2</td>
<td>1/2</td>
<td>1-3/4</td>
<td>3</td>
<td>9/32</td>
<td>2-1/4</td>
<td>5/16</td>
<td>L067310000</td>
</tr>
<tr>
<td>2</td>
<td>1/2</td>
<td>1-3/4</td>
<td>3</td>
<td>9/32</td>
<td>2-1/4</td>
<td>5/16</td>
<td>L067310000</td>
</tr>
<tr>
<td>2-1/2</td>
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<td>13/32</td>
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<td>7/16</td>
<td>L067320000</td>
</tr>
<tr>
<td>3</td>
<td>5/8</td>
<td>2-3/8</td>
<td>4</td>
<td>13/32</td>
<td>3</td>
<td>7/16</td>
<td>L067320000</td>
</tr>
<tr>
<td>4</td>
<td>3/4</td>
<td>3-3/16</td>
<td>5</td>
<td>15/32</td>
<td>3-3/4</td>
<td>1/2</td>
<td>L067330000</td>
</tr>
</tbody>
</table>

Connecting pin and locknut furnished with clevis bracket.

Mounting Nut for Cylinders**

<table>
<thead>
<tr>
<th>Bore size</th>
<th>A</th>
<th>B</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/8</td>
<td>3/4</td>
<td>16</td>
<td>27/64</td>
</tr>
<tr>
<td>1-1/2</td>
<td>1-1/4</td>
<td>14</td>
<td>35/64</td>
</tr>
<tr>
<td>2-1/2 &amp; 3</td>
<td>1-3/8-12</td>
<td>25/32</td>
<td>0833010124</td>
</tr>
<tr>
<td>4</td>
<td>1-3/4-12</td>
<td>15/16</td>
<td>0831830000</td>
</tr>
</tbody>
</table>

Sensors

See section L for sensors.

Note: Rod end jam nut furnished with rod clevis.

Most popular.
Sensors

How To Order P Series Sensors

P Series sensors are not mounted to the cylinder prior to shipment. When ordering a cylinder to accommodate a P Series sensor:

1. Derive a proper cylinder number as shown on the Ordering Information page and include magnet, option “M” in Seals/Option Code.
2. As a separate item specify the number of sensors required.*
3. As a third item specify the quantity of the proper clamp assembly.*

* For information regarding sensors, please refer to the Electronic Sensors section.

Service Kits

Table A

Seal kit for series “P” cylinders with o-ring piston
Contains: 2 each symbol #15 & 1 each symbol #16, 24 & 25

<table>
<thead>
<tr>
<th>Bore size</th>
<th>Standard seal kit part number</th>
<th>Hi-temp seal kit part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/8&quot;</td>
<td>L067680000</td>
<td>L067730000</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>L067690000</td>
<td>L067740000</td>
</tr>
<tr>
<td>2&quot;</td>
<td>L067700000</td>
<td>L067750000</td>
</tr>
<tr>
<td>2-1/2&quot;</td>
<td>L067710000</td>
<td>L067760000</td>
</tr>
<tr>
<td>3&quot;</td>
<td>L067720000</td>
<td>L067770000</td>
</tr>
</tbody>
</table>

Table B

Seal kit for series “P” cylinders with lipseal piston
Contains: 2 each symbol #15 & 23 & 1 each symbol #24 & 25

<table>
<thead>
<tr>
<th>Bore size</th>
<th>Standard seal kit part number</th>
<th>Hi-temp seal kit part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/8&quot;</td>
<td>L067780000</td>
<td>L067840000</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>L067790000</td>
<td>L067850000</td>
</tr>
<tr>
<td>2&quot;</td>
<td>L067800000</td>
<td>L067860000</td>
</tr>
<tr>
<td>2-1/2&quot;</td>
<td>L067810000</td>
<td>L067870000</td>
</tr>
<tr>
<td>3&quot;</td>
<td>L067820000</td>
<td>L067880000</td>
</tr>
<tr>
<td>4&quot;</td>
<td>L067830000</td>
<td>L067890000</td>
</tr>
</tbody>
</table>

Table C

Cushion seal kit for series “P” cylinders
Contains: 2 each symbol #19 & 21 (Symbol #21 not required or supplied for 1-1/8" & 1-1/2" bore size cylinders)

<table>
<thead>
<tr>
<th>Bore size</th>
<th>Standard seal kit part number</th>
<th>Hi-temp seal kit part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/8&quot;</td>
<td>L067900000</td>
<td>L067950000</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>L067910000</td>
<td>L067960000</td>
</tr>
<tr>
<td>2&quot;</td>
<td>L067920000</td>
<td>L067970000</td>
</tr>
<tr>
<td>2-1/2&quot;</td>
<td>L067930000</td>
<td>L067980000</td>
</tr>
<tr>
<td>3&quot;</td>
<td>L067930000</td>
<td>L067980000</td>
</tr>
<tr>
<td>4&quot;</td>
<td>L067940000</td>
<td>L067990000</td>
</tr>
</tbody>
</table>

Example:

To order a 1-1/2" x 6" cylinder with P Series sensors to sense the end of stroke at both head and cap end.

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2</td>
<td>P8S-GPSHX Sensor</td>
</tr>
<tr>
<td>B</td>
<td>2</td>
<td>P8S-TMC02 Clamp Assembly</td>
</tr>
</tbody>
</table>

Piston Travel at Mid Stroke* (Sensor Activated)

<table>
<thead>
<tr>
<th>Bore size</th>
<th>Piston travel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/8&quot;</td>
<td>0.33</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>0.37</td>
</tr>
<tr>
<td>2&quot;</td>
<td>0.49</td>
</tr>
<tr>
<td>2-1/2&quot;</td>
<td>0.44</td>
</tr>
<tr>
<td>3&quot;</td>
<td>0.40</td>
</tr>
<tr>
<td>4&quot;</td>
<td>0.33</td>
</tr>
</tbody>
</table>

* Sensing distance at “End of Stroke” can be adjusted from ‘mid-stroke’ sensing distance to zero. For sensor specifications and part numbers, see Electronic Sensors section.

† Piston travel ±.01".

Cushion seal kit for series “P” cylinders
Contains: 2 each symbol #19 & 21 (Symbol #21 not required or supplied for 1-1/8" & 1-1/2" bore size cylinders)

<table>
<thead>
<tr>
<th>Bore size</th>
<th>Standard seal kit part number</th>
<th>Hi-temp seal kit part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/8&quot;</td>
<td>L067900000</td>
<td>L067950000</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>L067910000</td>
<td>L067960000</td>
</tr>
<tr>
<td>2&quot;</td>
<td>L067920000</td>
<td>L067970000</td>
</tr>
<tr>
<td>2-1/2&quot;</td>
<td>L067930000</td>
<td>L067980000</td>
</tr>
<tr>
<td>3&quot;</td>
<td>L067930000</td>
<td>L067980000</td>
</tr>
<tr>
<td>4&quot;</td>
<td>L067940000</td>
<td>L067990000</td>
</tr>
</tbody>
</table>

For inventory, lead times, and kit lookup, visit www.pdnplu.com

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics