Please visit http://portal.fabco-air.com/con/figure.php for current pricing.
FABCO-AIR
air cylinders
outstanding design and construction...
superior performance and reliability


2. Return Springs – High tensile strength music wire. Shotpeened...to relieve stresses for longer life.

3. Heads – Aluminum. Internal face grooved for positive air flow to piston seals.

4. Piston Rod - 303 Stainless Steel standard all models. Wrench flats, standard on most models, and chamfered for easy wrench contact without rod damage. Threads are roll formed for strength and durability.

5. Piston - Unique Fabco Piston may be factory assembled in two different ways – same overall dimensions with or without bumpers. Piston threads are Roll Formed for strength and durability.

6. Seals – Buna N standard on all models. Fluorocarbon (Viton...Option F) available for high ambient temperatures, for extremely high cycling conditions with limited lubrication or mild chemical resistance (air supply contaminants and/ or lubricants). Seal design ensures constant contact with cylinder barrel eliminating seal collapse and blowby.

7. Rod Bushing – Oil permeated bronze. Ball-sized to close tolerance... provides rod support and smooth, low friction rod movement for longer cylinder life.

8. Pressure Ports – Full, unrestricted porting for maximum air flow...combines with groove in heads to provide fast cylinder response and smooth rod movement.

9. Spacers – Spacers ensure a uniform spring rate and prohibit collapse of springs, providing maximum life.

10. Accessories – (see page 18 & 19) Steel mounting nuts, mounting brackets, rod clevises, etc., are burnished and bright zinc plated.

Air cylinders have an excellent ability to provide fast response and rapid movement from the energy of compressed air. Rapid indexing, stamping, punching, part location, etc., are ideally suited to air cylinders. Applications requiring extremely slow and smooth, or precise movement are more difficult to satisfy due to the compressibility of air. Consult Factory.

Mounting

Mount to centerline of work to avoid side load on rod. Mount securely, without over-torquing mounting nuts. Check frequently for loose mountings. A secure mount, accurately placed, promotes cylinder performance and endurance. Side load on rod should be eliminated. Severe side load or stress can cause rod breakage, excessive bushing wear, and scoring of piston/barrel. Consider Option N (Wearstrip).

Reduce adverse effect of side load by attaching a universal rod eye to the piston rod. Also, consider utilizing only part of total stroke...keep piston "back" in barrel for greater column strength.

Avoid “bottoming-out” piston on cylinder heads at high pressures. Consider Option B (Bumper).

Lubrication

All models are factory prelubricated for optimum life and performance. Periodically lubricate internally with a non-detergent mineral-base oil. Automatic air line lubricators are most commonly used. To solve lubrication problems due to lubricant backflow during control valve exhaust cycle, install a Fabco quick exhaust valve directly to the cylinder port. This stops backflow and allows progressive flow of oil to cylinder. Avoid using higher pressure than is actually required. Nominal air pressure provides optimum cylinder life, reduces use and cost of compressed air, and saves energy.

Air Cylinder Application Factors

Single Acting Types

Spring Return

- Spring return (single acting): Air pressure produces force in one pushing direction only, causing rod to extend.
- Spring extend (single acting reverse): Air pressure produces force in one pulling direction only, causing rod to retract.
- Spring returns rod to normal position in one quick motion, determined by control valve’s flow capacity and cylinder volume. Flow control (metering) of exhausting air during return stroke does not provide optimum smoothness of movement (consider Double Acting models for smoothest movement).
- Only one 3-way valve is required...less expensive than valving for double acting cylinders.
- Consider when compressed air supply is limited or must be conserved.
- Mount to insure that vent in side of barrel can breathe freely.

Spring Extend

Double Acting Types

Double Acting

- Air pressure produces force in either pushing or pulling direction. Pushing force is greater than pulling force due to smaller effective piston area on rod side of piston.
- Flow control (metering) of exhausting air can be performed in either direction. Air exhausts from the cylinders port opposite the port being pressurized. For smoothest movement, meter the exhausting air. Metering of the incoming pressure may produce erratic, jumpy cylinder action.
- Closed system. No vent (breather hole) to consider; see Single Acting above. Consider, when cylinder must operate in dirty ambient conditions.

Double-End Rod

- Air pressure produces equal force in both pushing and pulling directions due to equal piston area. Pressurizing both sides locks cylinder position in any given point.
- Fixed mounting of both rod ends allows movement of barrel only...barrel moves back and forth and rods are stationary. Caution: Do not side load rod (barrel weight, alignment, etc.).
- One rod can be used to perform a work function while second rod:
  - Permits operation of limit switches away from work function.
  - Permits attachment of guiding methods to eliminate rod rotation (alternate to hex rod)
  - Provides additional support to guard against rod deflection.
**FABCO-AIR**

**air cylinders**

**specifications**

FORCE (F) is determined by square inches of piston area (A), and pressure (P) in PSIG. 
\[ F = A \times P \]

VOLUME (V) in cubic inches is determined by square inches of piston area (A), and length of stroke (L). 
\[ V = A \times L \]

SPEED is affected by many variables (including force to move load, cylinder volume, control valve flow capacity, length of supply lines, etc.) making precise calculations difficult.

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Bore Size I.D.</th>
<th>Port Size</th>
<th>Rod Diameter (or HEX)</th>
<th>Cylinder Volume (in(^3)/inch of stroke)</th>
<th>Piston Area (in(^2))</th>
<th>Spring Force in Pounds if Cyl. is:</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>1/2</td>
<td>10-32 UNF</td>
<td>.187 (.187)</td>
<td>.20</td>
<td>.17</td>
<td>1 2</td>
</tr>
<tr>
<td>7</td>
<td>3/4</td>
<td>1/8 PIPE</td>
<td>.250 (.250)</td>
<td>.44</td>
<td>.39</td>
<td>1 1/2 5</td>
</tr>
<tr>
<td>6</td>
<td>1 1/16</td>
<td>1/8 PIPE</td>
<td>.312 (.375)</td>
<td>.89</td>
<td>.81</td>
<td>4 8</td>
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<tr>
<td>25</td>
<td>1 1/4</td>
<td>1/8 PIPE</td>
<td>.437 (.437)</td>
<td>1.23</td>
<td>1.08</td>
<td>7 14</td>
</tr>
<tr>
<td>5</td>
<td>1 1/2</td>
<td>1/8 PIPE</td>
<td>.437 (.437)</td>
<td>1.77</td>
<td>1.62</td>
<td>6 12</td>
</tr>
<tr>
<td>75</td>
<td>1 3/4</td>
<td>1/4 PIPE</td>
<td>.500 (N.A.)</td>
<td>2.41</td>
<td>2.21</td>
<td>12 24</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>1/4 PIPE</td>
<td>.625 (N.A.)</td>
<td>3.14</td>
<td>2.84</td>
<td>15 30</td>
</tr>
<tr>
<td>3</td>
<td>2 1/2</td>
<td>1/4 PIPE</td>
<td>.625 (N.A.)</td>
<td>4.91</td>
<td>4.60</td>
<td>N/A N/A</td>
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**how to order**

**model code - type - stroke length - options**

- **A**
- **B**
- **C**
- **D**

### examples:
- 6-S-2
- 5-DP-4M
- 8-D-2-1/2B

<table>
<thead>
<tr>
<th>type</th>
<th>model codes / bore sizes available</th>
<th>recommended maximum stroke in.</th>
<th>comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>8 7 6 25 5 75 4 3</td>
<td>12</td>
<td>Standard strokes are in 1&quot; increments (1/2&quot; for model code 8). Fractional strokes also available. Consult factory. Stroke tolerance is 1/32&quot;.</td>
</tr>
<tr>
<td>DP</td>
<td>8 7 6 25 5 75 4 3</td>
<td>12</td>
<td>Longer than standard stroke lengths are available. Consult factory.</td>
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<tr>
<td>D2EY</td>
<td>8 7 6 25 5 75 4 3</td>
<td>12</td>
<td>When specifying longer than standard stroke lengths, consider possible rod deflection, adequate lubrication, high speed friction, etc. No warranty.</td>
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<tr>
<td>BFD</td>
<td>8 7 6 25 5 75 4 3</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>8 7 6 25 5 75 4 3</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>SP</td>
<td>8 7 6 25 5 75 4 3</td>
<td>6</td>
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<tr>
<td>SH</td>
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<td>8 7 6 25 5 75 4 3</td>
<td>4</td>
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<td>SRP</td>
<td>8 7 6 25 5 75 4 3</td>
<td>4</td>
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<tr>
<td>BFSR</td>
<td>8 7 6 25 5 75 4 3</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**FABCO-AIR**

**air cylinders**

**D-type double acting / nose mount**

- Stainless steel rod, standard.
- Simple, reliable design.
- Requires air pressure to extend and retract rod.
- Extend force exceeds retract force (smaller effective area on rod side of piston).
- Exclusive Fabco reversible piston.
- Specify option M (internal magnet) to operate sensors.
- Wearstrip standard: 5 inches or more of stroke (optional on shorter strokes. N/A on model B).
- Options: A, B, F, M, N, P and W.
- Mounting nut included, except model 4 & 3 (order separately).
- Available accessories foot mount and rod clevis. See pages 18 & 19.

For product configuration utility, 3D CAD viewer, and 3D CAD Model downloads, Visit www.fabco-air.com.

---

**Media:** Compressed Air  
**Pressure Range:** 0-200 PSIG  
**Temperature Range:** -40°F to 160°F Ambient  
*fluorooelastomer:* -20°F to 400°F Ambient  
*Recommended maximum stroke:* 12"  
*additional heat may be generated by seal friction (high speed cycling).*

<table>
<thead>
<tr>
<th>model code.</th>
<th>volume - in³ (per inch of stroke)</th>
<th>rod side</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>.20</td>
<td>.17</td>
</tr>
<tr>
<td>7</td>
<td>.44</td>
<td>.39</td>
</tr>
<tr>
<td>6</td>
<td>.89</td>
<td>.81</td>
</tr>
<tr>
<td>25</td>
<td>1.23</td>
<td>1.08</td>
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<tr>
<td>5</td>
<td>1.77</td>
<td>1.62</td>
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<tr>
<td>75</td>
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<td>2.84</td>
</tr>
<tr>
<td>3</td>
<td>5.91</td>
<td>4.60</td>
</tr>
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</table>

*Area x PSIG = Approximate Force

---

<table>
<thead>
<tr>
<th>model code.</th>
<th>bore</th>
<th>A add to</th>
<th>B</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>P</th>
<th>Q</th>
<th>R</th>
<th>X</th>
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</thead>
<tbody>
<tr>
<td>8-D-</td>
<td>1/2</td>
<td>.19</td>
<td>.62</td>
<td>.50</td>
<td>.41</td>
<td>none</td>
<td>.12</td>
<td>.37</td>
<td>10-32 x .50</td>
<td>7/16-20</td>
<td>10-32 UNF</td>
<td>.37</td>
<td>.04</td>
<td>.187</td>
<td>.437</td>
<td></td>
</tr>
<tr>
<td>7-D-</td>
<td>3/4</td>
<td>.44</td>
<td>.88</td>
<td>.50</td>
<td>.50</td>
<td>none</td>
<td>.16</td>
<td>.62</td>
<td>1/4-28 x .50</td>
<td>5/8-18</td>
<td>1/8</td>
<td>3.47</td>
<td>.48</td>
<td>.07</td>
<td>.250</td>
<td>.625</td>
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<tr>
<td>6-D-</td>
<td>1 1/16</td>
<td>.25</td>
<td>.12</td>
<td>.62</td>
<td>.50</td>
<td>.25</td>
<td>.25</td>
<td>.87</td>
<td>5/16-24 x .50</td>
<td>5/8-18</td>
<td>1/8</td>
<td>3.75</td>
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<td>.07</td>
<td>.312</td>
<td>.625</td>
</tr>
<tr>
<td>25-D-</td>
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<td>.31</td>
<td>1.31</td>
<td>1.00</td>
<td>.62</td>
<td>.38</td>
<td>.18</td>
<td>.87</td>
<td>7/16-20 x .75</td>
<td>3/4-16</td>
<td>1/8</td>
<td>4.75</td>
<td>.63</td>
<td>.07</td>
<td>.437</td>
<td>.750</td>
</tr>
<tr>
<td>5-D-</td>
<td>1 1/2</td>
<td>.19</td>
<td>1.55</td>
<td>1.00</td>
<td>.62</td>
<td>.38</td>
<td>.25</td>
<td>.87</td>
<td>7/16-20 x .75</td>
<td>3/4-16</td>
<td>1/8</td>
<td>4.44</td>
<td>.62</td>
<td>.07</td>
<td>.437</td>
<td>.750</td>
</tr>
<tr>
<td>75-D-</td>
<td>1 3/4</td>
<td>.56</td>
<td>1.81</td>
<td>1.19</td>
<td>.75</td>
<td>.44</td>
<td>.25</td>
<td>1.25</td>
<td>1/2-20 x .88</td>
<td>1-14</td>
<td>1/4</td>
<td>5.57</td>
<td>.72</td>
<td>.09</td>
<td>.500</td>
<td>1.030</td>
</tr>
<tr>
<td>4-D-</td>
<td>2</td>
<td>.37</td>
<td>2.07</td>
<td>1.25</td>
<td>.81</td>
<td>.50</td>
<td>.31</td>
<td>1.25</td>
<td>1/2-20 x .88</td>
<td>1 1/4-12</td>
<td>1/4</td>
<td>5.56</td>
<td>.69</td>
<td>.12</td>
<td>.625</td>
<td>1.375</td>
</tr>
<tr>
<td>3-D-</td>
<td>2 1/2</td>
<td>.37</td>
<td>2.62</td>
<td>1.25</td>
<td>.81</td>
<td>.50</td>
<td>.31</td>
<td>1.75</td>
<td>1/2-20 x .88</td>
<td>1 3/8-12</td>
<td>1/4</td>
<td>5.56</td>
<td>.69</td>
<td>.12</td>
<td>.625</td>
<td>1.500</td>
</tr>
</tbody>
</table>

* model 8 only - add 0.399 for Option M.
**FABCO-AIR**

**air cylinders**

**DP-type** double acting / pivot mount or double-end mount

- Stainless steel rod, standard.
- Simple, reliable design.
- Requires air pressure to extend and retract rod.
- Extend force exceeds retract force (smaller effective area on rod side of piston).
- Exclusive Fabco reversible piston.
- Specify option M (internal magnet) to operate sensors.
- Wearstrip standard: 5 inches or more of stroke (optional on shorter strokes. N/A on model 8).
- Versatile mounting, pivot, nose, double-end.
- Available accessories, pivot bracket, mounting nut, foot mount and rod clevis, see pages 18 & 19.

For product configuration utility, 3D CAD viewer, and 3D CAD Model downloads, Visit www.fabco-air.com.

---

**FABCO-AIR**

**air cylinders**

**D2EY-type** double acting - double end rod / double end mount

- Air pressure produces equal force in both directions due to equal piston area; permits locking in mid stroke.
- One rod can be used to perform work function, second rod to operate limit switches, provide support or guide.
- Fixed mounting of both rod ends allows movement of barrel only.
- Bumpers and Stainless steel rod, standard.
- Two mounting nuts included, except Model 3 & 4 (order separately).
- Available accessories foot mount, mounting nut and rod clevis, see pages 18 & 19.

For product configuration utility, 3D CAD viewer, and 3D CAD Model downloads, Visit www.fabco-air.com.

---

<table>
<thead>
<tr>
<th>Model &amp; Type (Stroke)</th>
<th>Bore (in)</th>
<th>B Dia.</th>
<th>D Rod Retracted</th>
<th>E Nose Length</th>
<th>F Wrench Flat</th>
<th>J Rod Thread X Length</th>
<th>K Nose Thread</th>
<th>L Port (NPSF)</th>
<th>M Length</th>
<th>MM Length</th>
<th>P Pilot</th>
<th>Q Pilot</th>
<th>R Rod Dia.</th>
<th>X Pilot (in)</th>
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<tbody>
<tr>
<td>8-D2EY-__</td>
<td>1/2</td>
<td>.62</td>
<td>.50</td>
<td>.41</td>
<td>none</td>
<td>10-32 x .50</td>
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<td>10-32 UNF</td>
<td>3.88</td>
<td>2.07</td>
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<td>.04</td>
<td>.187</td>
<td>.437</td>
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<tr>
<td>7-D2EY-__</td>
<td>3/4</td>
<td>.88</td>
<td>.50</td>
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<td>.250</td>
<td>.625</td>
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<td>.50</td>
<td>.25</td>
<td>5/16-24 x .50</td>
<td>5/8-18</td>
<td>1/8</td>
<td>5.32</td>
<td>3.07</td>
<td>.52</td>
<td>.07</td>
<td>.312</td>
<td>.625</td>
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<tr>
<td>25-D2EY-__</td>
<td>1 1/4</td>
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<td>5-D2EY-__</td>
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<td>1.55</td>
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<td>.38</td>
<td>7/16-20 x .75</td>
<td>3/4-16</td>
<td>1/8</td>
<td>6.63</td>
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<td>.07</td>
<td>.437</td>
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<td>1 3/4</td>
<td>1.81</td>
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<td>1/4</td>
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<td>.09</td>
<td>.500</td>
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<td>4-D2EY-__</td>
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<td>.50</td>
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<td>1 1/4-12</td>
<td>1/4</td>
<td>8.31</td>
<td>4.19</td>
<td>.69</td>
<td>.12</td>
<td>.625</td>
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<td>.50</td>
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<td>1 3/8-12</td>
<td>1/4</td>
<td>8.31</td>
<td>4.19</td>
<td>.69</td>
<td>.12</td>
<td>.625</td>
<td>1.500</td>
</tr>
</tbody>
</table>

*Area x PSI = Approximate Force*
FABCO-AIR air cylinders

BFD-type

- Versatile mounting... through-head, front mount using pilot.
- Stainless steel rod, standard.
- Simple, reliable design.
- Requires air pressure to extend and retract rod.
- Extend force exceeds retract force (smaller effective area on rod side of piston).
- Exclusive Fabco reversible piston.
- Specify option M (internal magnet) to operate sensors.
- Wearstrip standard (double acting only): 5 inches or more of stroke (optional, shorter strokes).
- Options: B, F, M, N, P.
- Available accessories, rod clevis, see pages 18 & 19.

For product configuration utility, 3D CAD viewer, and 3D CAD Model downloads, Visit www.fabco-air.com.

### Tapped Mounting hole (Z) position for model 8-BFD only

<table>
<thead>
<tr>
<th>model &amp; type (stroke)</th>
<th>bore</th>
<th>B Rod ext.</th>
<th>D Square</th>
<th>F Wrench flat</th>
<th>G flat</th>
<th>H flat</th>
<th>J rod thread x length</th>
<th>K mounting holes</th>
<th>L port (NPSF)</th>
<th>M length</th>
<th>P rod dia.</th>
<th>Q pilot</th>
<th>R rod dia.</th>
<th>T</th>
<th>X pilot dia (0.031-0.066)</th>
<th>Y</th>
<th>Z mounting holes</th>
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<tbody>
<tr>
<td>8-BFD - 1/2</td>
<td>.75</td>
<td>.50</td>
<td>none</td>
<td>.12</td>
<td>.37</td>
<td>10-32 x .50</td>
<td>Two #8-32 holes on .75 diameter bolt circle</td>
<td>10-32 UNF</td>
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<td>.31</td>
<td>.06</td>
<td>.187</td>
<td>.437</td>
<td>.44</td>
<td>Two #8-32 holes</td>
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<tr>
<td>7-BFD - 3/4</td>
<td>1.00</td>
<td>1.06</td>
<td>.22</td>
<td>.16</td>
<td>.62</td>
<td>1/4-28 x .75</td>
<td>Two #10-32 holes on 1.0 diameter bolt circle</td>
<td>1/8</td>
<td>4.03</td>
<td>.47</td>
<td>.09</td>
<td>.250</td>
<td>.51</td>
<td>.625</td>
<td>Two holes drill and c bonded for 10-32 cap screw tap 1/4-20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6-BFD - 5/16</td>
<td>.75</td>
<td>1.50</td>
<td>.38</td>
<td>.25</td>
<td>.87</td>
<td>5/16-24 x .75</td>
<td>Two #10-32 holes on 1.25 diameter bolt circle</td>
<td>1/8</td>
<td>4.75</td>
<td>.72</td>
<td>.09</td>
<td>.312</td>
<td>.54</td>
<td>.750</td>
<td>Two holes drill and c bonded for 10-32 cap screw tap 1/4-20</td>
<td></td>
<td></td>
</tr>
<tr>
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<td>.25</td>
<td>.87</td>
<td>7/16-20 x 1.25</td>
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<td>.12</td>
<td>.437</td>
<td>.66</td>
<td>1.000</td>
<td>Two holes drill and c bonded for 1/4-20 cap screw tap 5/16-18</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Media: Compressed Air
Pressure Range: 0-200 PSIG
Temperature Range: -40°F to 160°F Ambient
Recommended maximum stroke: 12”
*additional heat may be generated by seal friction (high speed cycling).

For product configuration utility, 3D CAD viewer, and 3D CAD Model downloads, Visit www.fabco-air.com.

### S-type Single Acting / Nose Mount

- Stainless steel rod, standard.
- Economical - requires air pressure only to extend rod.
- Stress relieved spring/retract rod.
- Options: A, F and N.
- Mounting nut included, except model 4 (order separately).
- Available accessories: foot mount and rod clevis, see pages 18 & 19.

For product configuration utility, 3D CAD viewer, and 3D CAD Model downloads, visit www.fabco-air.com.

---

#### Media

<table>
<thead>
<tr>
<th>Media</th>
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</tr>
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<tbody>
<tr>
<td>Pressure Range</td>
<td>0-200 PSIG</td>
</tr>
</tbody>
</table>

#### Recommended maximum stroke

- 6"

*additional heat may be generated by seal friction (high speed cycling).

---

#### Optional features

Option A

- Mounting nut where applicable.
- For dimensions see page 19.

---

#### Specifications

| Model Code | Bore (Stroke) | A add to dim M | B dia. | D rod exten. | E nose length | F wrench flat | G flat | H flat | J rod thread x length | K nose thread | L port (NPSF) | M length | N add to M | Q pilot | R rod dia. | X pilot dia. |
|------------|---------------|----------------|--------|--------------|---------------|---------------|--------|--------|----------------------|--------------|-------------|----------|------------|---------|-----------|------------|-------------|
| 8-S-__     | 1/2           | .19            | .56    | .50          | .31           | none          | .12    | .37    | 10-32 x .50          | 3/8-24       | 1.81        | 1/2"     | .94       | .04     | .187      | .375       |
| 7-S-__     | 3/4           | .44            | .81    | .50          | .44           | none          | .16    | .62    | 1/4-28 x .50         | 1/2-20       | 2.00        | 1"       | 1.69      | .07     | .250      | .500       |
| 6-S-__     | 1 1/16        | .25            | 1.12   | .62          | .25           | .25           | .25    | .87    | 5/16-24 x .50        | 5/8-18       | 2.56        | 1"       | 1.56      | .07     | .312      | .625       |
| 25-S-__    | 1 1/4         | .31            | 1.31   | .62          | .38           | .18           | .87    | 7/16-20 x .75        | 3/4-16       | 3.41        | 1"       | 1.81      | .07     | .437      | .750       |
| 5-S-__     | 1 1/2         | .19            | 1.55   | .62          | .38           | .25           | .25    | .87    | 7/16-20 x .75        | 3/4-16       | 3.19        | 1"       | 1.69      | .07     | .437      | .750       |
| 75-S-__    | 1 3/4         | .56            | 1.81   | .75          | .44           | .25           | 1.25   | 1/2-20 x .88         | 1-14         | 3.85        | 1"       | 2.00      | .09     | .500      | 1.030      |
| 4-S-__     | 2             | .37            | 2.07   | 1.25         | .81           | .50           | .31    | 1.25   | 1/2-20 x .88         | 1 1/4-12     | 4.17        | 1"       | 2.00      | .12     | .625      | 1.375      |

*Area x PSIG = Approximate Force

---

# SP-type air cylinders

The SP-type air cylinders are designed for single acting / pivot mount or double-end mount applications. They are available in either single acting or pivot mount configurations. The options for these configurations include pivot, nose, and double-end.

### Specifications

- **Stainless steel rod**, standard.
- **Economical** - requires air pressure only to extend rod.
- **Stress relieved spring** / retract rod.
- **Options**: F, N, R, T and U.
- **Versatile mounting**: pivot, nose, double-end.
- **Available accessories**: pivot bracket, foot mount, mounting nut and rod clevis, see pages 18 & 19.

For product configuration utility, 3D CAD viewer, and 3D CAD Model downloads, Visit www.fabco-air.com.

### Media

- Media: Compressed Air
- Pressure Range: 0-200 PSIG

### Additional Heat

- Additional heat may be generated by seal friction (high speed cycling).

### Recommended Maximum Stroke

- Recommended maximum stroke: 6"

### Product Configuration Utility

- For product configuration utility, 3D CAD viewer, and 3D CAD Model downloads, Visit www.fabco-air.com.

<table>
<thead>
<tr>
<th>Model &amp; Type (Stroke)</th>
<th>Bore</th>
<th>B Dia.</th>
<th>D Rod Ext.</th>
<th>E Nose Length</th>
<th>F Wrench Flat</th>
<th>J Rod Thread x Length</th>
<th>K Nose Thread</th>
<th>L Port (NPS)</th>
<th>M Length</th>
<th>MM Length</th>
<th>N for Each Stroke Increment of</th>
<th>Q Pilot</th>
<th>R Rod Dia</th>
<th>T U V</th>
<th>X Pl. Dia. (0.001 - 0.06) (Nom. Wise)</th>
<th>Z Pivot Hole Dia.</th>
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<tbody>
<tr>
<td>8-SP-_</td>
<td>1/2</td>
<td>.62</td>
<td>.50</td>
<td>.31</td>
<td>none</td>
<td>10-32 x .50</td>
<td>3/8-24 (7/16-20)</td>
<td>10-32 UNF</td>
<td>2.50</td>
<td>2.25</td>
<td>1/2&quot; .94 .04 .187 .42 .25 .31 375 (437)</td>
<td>.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7-SP-</td>
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<td>.81</td>
<td>.50</td>
<td>.44</td>
<td>none</td>
<td>1/4-28 x .50</td>
<td>1/2-20 (5/8-18)</td>
<td>1/8</td>
<td>3.06</td>
<td>2.77</td>
<td>1&quot; 1.69 .07 .250 .66 .38 .500 (625)</td>
<td>.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6-SP-</td>
<td>1 1/16</td>
<td>1.12</td>
<td>.62</td>
<td>.50</td>
<td>.25</td>
<td>5/16-24 x .50</td>
<td>5/8-18 TYP.</td>
<td>1/8</td>
<td>3.44</td>
<td>3.16</td>
<td>1&quot; 1.56 .07 .312 .62 .34 .625 .25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25-SP-</td>
<td>1 1/4</td>
<td>1.31</td>
<td>1.00</td>
<td>.62</td>
<td>.38</td>
<td>7/16-20 x .75</td>
<td>3/4-16 TYP.</td>
<td>1/8</td>
<td>4.50</td>
<td>4.14</td>
<td>1&quot; 1.81 .07 .437 .91 .41 .50 .750 .25</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5-SP-</td>
<td>1 1/2</td>
<td>1.55</td>
<td>1.00</td>
<td>.62</td>
<td>.38</td>
<td>7/16-20 x .75</td>
<td>3/4-16 TYP.</td>
<td>1/8</td>
<td>4.25</td>
<td>3.88</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>75-SP-</td>
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<td>1.81</td>
<td>1.19</td>
<td>.75</td>
<td>.44</td>
<td>1/2-20 x .88</td>
<td>1-14 TYP.</td>
<td>1/4</td>
<td>5.41</td>
<td>4.91</td>
<td>1&quot; 2.00 .09 .500 .98 .50 .62 .1030 .38</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>4-SP-</td>
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<td>2.07</td>
<td>1.25</td>
<td>.81</td>
<td>.50</td>
<td>1/2-20 x .88</td>
<td>1/4-12 TYP.</td>
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<td>5.54</td>
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<td>1&quot; 2.00 .12 .625 1.0 .57 .74 .1375 .381</td>
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</table>

*Area x PSIG = Approximate Force*
FABCO-AIR air cylinders

SH-type single acting, non-rotating rod / nose mount

- Stainless steel rod, standard.
- Non-rotating hex rod-no special guides required.
- Requires air pressure only to extend rod.
- Stress relieved springs retract rod.
- Options: A, F and N.
- Mounting nut included.
- Available accessories: foot mount and rod clevis, see pages 18 & 19.

For product configuration utility, 3D CAD viewer, and 3D CAD Model downloads, Visit www.fabco-air.com.

---

**SH-type air cylinders**

- **Model Code**: 8-SH-_
- **Bore**: 1/2
- **Add to Dim. M**: 0.19
- **B. Dia.**: 0.56
- **D. Ext**: 0.75
- **Nose Length**: 0.31
- **Flat**: 0.12
- **Flat**: 0.37
- **J Rod Thread x Length**: 10-32 x 0.50
- **K Nose Thread**: 0.24
- **L Port (NPSF)**: 3/8-24
- **M Length**: 2.06
- **N Add to M**: 0.94
- **Q Pilot**: 0.04
- **R Hex Flats**: 0.187
- **X Pilot Dia.**: 2.375

---

**Table of Media Specifications**

<table>
<thead>
<tr>
<th>Media</th>
<th>Compressed Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>0-200 PSIG</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>40°F to 160°F Ambient*</td>
</tr>
</tbody>
</table>

---

**Additional Heat Generation**

- Additional heat may be generated by seal friction (high speed cycling).

---

**Volume and Spring Force Calculations**

- **Volume**: 
  \[ \text{Volume} = \text{Area} \times \text{PSIG} \]
- **Spring Force**: 
  \[ \text{Spring Force} = \text{Area} \times \text{PSIG} \]

---

**Diagrams and Configurations**

- **Option A**: Cylinder with option A
- **Mounting Nut**: Where applicable. For dimensions see page 19.

---

**Dimensions**

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Piston Area* - in²</th>
<th>Spring Force Pounds</th>
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<td>0.12</td>
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<td>6</td>
<td>0.44</td>
<td>1.5</td>
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<td>4.8</td>
</tr>
<tr>
<td>6</td>
<td>1.77</td>
<td>6.12</td>
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</table>

*Area x PSIG = Approximate Force

---

**Notes**

- Media: Compressed Air
- Pressure Range: 0-200 PSIG
- Temperature Range: 40°F to 160°F Ambient
- Recommended maximum stroke: 6"
Please visit http://portal.fabco-air.com/con/figure.php for current pricing.

For product configuration utility, 3D CAD viewer, and 3D CAD Model downloads, Visit www.fabco-air.com.

**SHP-type** single acting, non-rotating rod / pivot mount or double-end mount

- Stainless steel rod, standard.
- Non-rotating hex rod-no special guides required.
- Requires air pressure only to extend rod.
- Stress relieved springs retract rod.
- Options: F, N, R, T and U.
- Versatile mounting, pivot, nose, double end.
- Available accessories: pivot bracket, foot mount, mounting nut and rod clevis, see pages 18 & 19.

---

**Media:........................................................................Compressed Air**
**Pressure Range:..................................................0-200 PSIG**
**Temperature Range:..........................-40°F to 160°F Ambient**
**w/Fluoroeastomer..........................-20°F to 400°F Ambient**
**Recommended maximum stroke:.............6”**
**additional heat may be generated by seal friction (high speed cycling).**

<table>
<thead>
<tr>
<th>Model &amp; Type (Stroke)</th>
<th>Bore</th>
<th>B Dia.</th>
<th>D Rod Ext.</th>
<th>E Nose Length</th>
<th>J Rod Thread x Length</th>
<th>K Nose Thread</th>
<th>L Port (NPSF)</th>
<th>M Length</th>
<th>MM Length</th>
<th>N for Each Stroke Increments of</th>
<th>Add To M</th>
<th>Q Pilot</th>
<th>R Hex Flats</th>
<th>T</th>
<th>U</th>
<th>V</th>
<th>X Pilot Dia.</th>
<th>Z Pivot Hole Dia.</th>
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</thead>
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<td>.75</td>
<td>.31</td>
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<td>3/8-24</td>
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<td>.04</td>
<td>.187</td>
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<td>(.437) .16</td>
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<td>.75</td>
<td>.44</td>
<td>1/4-28 x .50</td>
<td>1/2-20 (5/8-18)</td>
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<td>.250</td>
<td>.66</td>
<td>.34</td>
<td>.38</td>
<td>.500 (.625) .25</td>
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<tr>
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<td>1.12</td>
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<td>5/8-18</td>
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<td>3.28</td>
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<td>.375</td>
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<td>.34</td>
<td>.38</td>
<td>.625 (.25)</td>
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<tr>
<td>5-SHP_a</td>
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<td>1.25</td>
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<td>3/4-16</td>
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<td>4.13</td>
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<td>.437</td>
<td>.81</td>
<td>.50</td>
<td>.62</td>
<td>.750 (.38)</td>
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</table>

*Area x PSIG = Approximate Force*
SR-type single acting reverse / nose mount

- Stainless steel rod, standard.
- Requires air pressure to retract rod.
- Stress relieved springs extend rod.
- Options: F, N, P and W.
- Wearstrip standard: 3 inches or more of stroke (optional, shorter strokes).
- Mounting nut included, except model 4 (order separately).
- Available accessories: foot mount and rod clevis, see pages 18 & 19.

For product configuration utility, 3D CAD viewer, and 3D CAD Model downloads, Visit www.fabco-air.com.

<table>
<thead>
<tr>
<th>model &amp; type (stroke)</th>
<th>bore</th>
<th>B dia.</th>
<th>D rod retracted</th>
<th>E nose length</th>
<th>F wrench flat</th>
<th>G flat</th>
<th>H flat</th>
<th>J rod thread x length</th>
<th>K nose thread</th>
<th>L port (NPSF)</th>
<th>M length (with rod extended)</th>
<th>N for each stroke increment of</th>
<th>P</th>
<th>Q pilot</th>
<th>R rod dia.</th>
<th>X pilot dia.</th>
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<tbody>
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<td>10-32 x .50</td>
<td>7/16-20</td>
<td>10-32 UNF</td>
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<td>1/2*</td>
<td>1.44</td>
<td>.37</td>
<td>.04</td>
<td>.187</td>
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<td>1/4-28 x .50</td>
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<td>.25</td>
<td>.87</td>
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<td>5/8-18</td>
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<td>.437</td>
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<tr>
<td>5-SR_</td>
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<td>1.55</td>
<td>1.00</td>
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<td>.25</td>
<td>.87</td>
<td>7/16-20 x .75</td>
<td>3/4-16</td>
<td>1/8</td>
<td>4.00</td>
<td>1*</td>
<td>2.69</td>
<td>.62</td>
<td>.07</td>
<td>.437</td>
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<tr>
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<td>1.81</td>
<td>1.19</td>
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<td>.25</td>
<td>1.25</td>
<td>1/2-20 x .88</td>
<td>1-14</td>
<td>1/4</td>
<td>5.03</td>
<td>1*</td>
<td>3.00</td>
<td>.72</td>
<td>.09</td>
<td>.500</td>
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<td>.81</td>
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<td>1/2-20 x .88</td>
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<td>1/4</td>
<td>5.11</td>
<td>1*</td>
<td>3.00</td>
<td>.69</td>
<td>.12</td>
<td>.625</td>
</tr>
</tbody>
</table>

Media..............................................Compressed Air
Pressure Range......................................0-200 PSIG
Temperature Range..........................-40°F to 160°F Ambient
*additional heat may be generated by seal friction (high speed cycling).

*Area x PSIG = Approximate Force

For dimensions see page 19.

Mounting nut where applicable.

**FABCO-AIR**

**air cylinders**

**SRP-type** single acting reverse / pivot mount or double end mount

- Stainless steel rod, standard.
- Requires air pressure to retract rod.
- Stress relieved springs extend rod.
- Options: F, N, P and W.
- Wearstrip standard: 3 inches or more of stroke (optional, shorter strokes).
- Versatile mounting, pivot, nose, double-end.
- Available accessories: pivot bracket, foot mount, mounting nut and rod clevis, see pages 18 & 19.

For product configuration utility, 3D CAD viewer, and 3D CAD Model downloads, Visit www.fabco-air.com.

---

**Model Code Chart**

<table>
<thead>
<tr>
<th>Model Code</th>
<th>bore</th>
<th>B dia.</th>
<th>D rod ext.</th>
<th>E nose length</th>
<th>F wrench flat</th>
<th>J rod thread x length</th>
<th>K nose thread</th>
<th>L port NPSF</th>
<th>M length (rod ext.)</th>
<th>MM length (ext.)</th>
<th>N add to M</th>
<th>P</th>
<th>Q pilot</th>
<th>R rod dia.</th>
<th>T</th>
<th>U</th>
<th>V</th>
<th>X</th>
<th>Z</th>
<th>Pivot Hole Dia.</th>
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<td>2.88</td>
<td>1/2&quot;</td>
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<td>.50</td>
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<td>3.55</td>
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<td>.34 .38 .625 .25</td>
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<td>6-SRP-1 1/16</td>
<td>1 1/16</td>
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<td>5/8-18</td>
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<td>3.87</td>
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<td>4.69</td>
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<td>1/2-20 x .88</td>
<td>1 1/4</td>
<td>1/4</td>
<td>6.59</td>
<td>6.09</td>
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<td>.50 .62 1.030 .38</td>
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<td>1/4</td>
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<td>.69 .12 .625 1.0</td>
<td>.57 .75 1.375 .38</td>
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</tr>
</tbody>
</table>

Media: Compressed Air
Pressure Range: 0-200 PSIG
Temperature Range: -40°F to 160°F Ambient

Recommended maximum stroke: 4"

*additional heat may be generated by seal friction (high speed cycling).

---

*Area x PSIG = Approximate Force*
FABCO-AIR air cylinders

BFS-type

- Versatile mounting... through-head, front mount using pilot.
- Stainless steel rod, standard.
- Wearstrip standard 3" inches or more of stroke (optional on shorter strokes. N/A on model 8).
- BFS Options: F and N.
- Available accessories: rod clevis, see pages 18 & 19.

For product configuration utility, 3D CAD viewer, and 3D CAD Model downloads, Visit www.fabco-air.com.

Tapped Mounting hole (Z) position for model 8-BFS only

<table>
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<tr>
<th></th>
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<td>none</td>
<td>.12</td>
<td>.37</td>
<td>10-32 x .50</td>
<td>Two #8-32 holes on .75 dia bolt circle</td>
<td>10-32 UNF</td>
<td>2.42</td>
<td>1/2”</td>
<td>.94</td>
<td>.31</td>
<td>.187</td>
<td>.437</td>
<td>.44</td>
<td>Two #8-32 holes</td>
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<td>1.06</td>
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<td>.16</td>
<td>.62</td>
<td>1/4-28 x .75</td>
<td>Two #10-32 holes on 1.0 dia bolt circle</td>
<td>1/8</td>
<td>3.34</td>
<td>1”</td>
<td>1.69</td>
<td>.47</td>
<td>.09</td>
<td>.250</td>
<td>.51</td>
<td>.625</td>
<td>Two holes drill and c’ bored for 10-32 cap screw tap 1/4-20</td>
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<td>6-BFS-___</td>
<td>1/4</td>
<td>1.25</td>
<td>1.12</td>
<td>.25</td>
<td>.25</td>
<td>.87</td>
<td>5/16-24 x .75</td>
<td>Two #10-32 holes on 1.25 dia bolt circle</td>
<td>1/8</td>
<td>4.28</td>
<td>1”</td>
<td>1.56</td>
<td>.72</td>
<td>.09</td>
<td>.312</td>
<td>.54</td>
<td>.750</td>
<td>Two holes drill and c’ bored for 10-22 cap screw tap 1/4-20</td>
</tr>
<tr>
<td>5-BFS-___</td>
<td>1/2</td>
<td>1.75</td>
<td>1.50</td>
<td>.38</td>
<td>.25</td>
<td>.87</td>
<td>7/16-20 x 1.25</td>
<td>Two #1/4-20 holes on 1.75 dia bolt circle</td>
<td>1/4</td>
<td>5.00</td>
<td>1”</td>
<td>1.69</td>
<td>.106</td>
<td>.12</td>
<td>.437</td>
<td>.66</td>
<td>.100</td>
<td>Two holes drill and c’ bored for 1/4-20 cap screw tap 5/16-18</td>
</tr>
</tbody>
</table>

Media……………………………………Compressed Air
Pressure Range……………………….0-200 PSIG
Temperature Range………………....-40°F to 160°F Ambient*
with Fluoroplastic........….……...-20°F to 400°F Ambient*
Recommended maximum stroke…………………………….6”
*additional heat may be generated by seal friction (high speed cycling).
*Area x PSIG = Approximate Force

**FABCO-AIR**

**air cylinders**

**BFSR-type**

- Versatile mounting...
  - through-head, front mount using pilot.
- Stainless steel rod, standard.
- Wearstrip standard 3" inches or more of stroke (optional on shorter strokes. N/A on model 8).
- BFSR Options: F, N and P.
- Available accessories: rod clevis, see pages 18 & 19.

For product configuration utility, 3D CAD viewer, and 3D CAD Model downloads, Visit www.fabco-air.com.

---

<table>
<thead>
<tr>
<th>model &amp; type (stroke)</th>
<th>bore</th>
<th>B square</th>
<th>D rod exten.</th>
<th>F Wrench flat</th>
<th>G flat</th>
<th>H flat</th>
<th>J rod thread x length</th>
<th>K mounting holes</th>
<th>L port (NPSF)</th>
<th>M length for each stroke increment of</th>
<th>N add to M</th>
<th>P</th>
<th>Q pilot</th>
<th>R rod dia.</th>
<th>T</th>
<th>X pilot dia.</th>
<th>Y</th>
<th>Z mounting holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-BFSR-1/2</td>
<td>.75</td>
<td>.50</td>
<td>none .12</td>
<td>.37</td>
<td>10-32 x .50</td>
<td>Two #8-32 holes on .75 dia bolt circle</td>
<td>10-32 UNF</td>
<td>2.42</td>
<td>1/2&quot;</td>
<td>.44</td>
<td>.31</td>
<td>.06</td>
<td>.187</td>
<td>.44</td>
<td>437</td>
<td>.44</td>
<td>Two #8-32 holes</td>
<td></td>
</tr>
<tr>
<td>7-BFSR-3/4</td>
<td>1.00</td>
<td>1.06</td>
<td>.22</td>
<td>.16</td>
<td>62</td>
<td>1/4-28 x .75</td>
<td>Two #10-32 holes on 1.0 dia bolt circle</td>
<td>1/8</td>
<td>3.34</td>
<td>1&quot;</td>
<td>2.69</td>
<td>.47</td>
<td>.09</td>
<td>.250</td>
<td>.51</td>
<td>625</td>
<td>62</td>
<td>Two holes drill and c bored for 10-32 cap screw tap 1/4-20</td>
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<tr>
<td>6-BFSR-1/4</td>
<td>1.25</td>
<td>1.12</td>
<td>.25</td>
<td>.25</td>
<td>.87</td>
<td>5/16-24 x .75</td>
<td>Two #10-32 holes on 1.25 dia bolt circle</td>
<td>1/8</td>
<td>4.28</td>
<td>1&quot;</td>
<td>2.56</td>
<td>.72</td>
<td>.09</td>
<td>.312</td>
<td>.54</td>
<td>750</td>
<td>81</td>
<td>Two holes drill and c bored for 10-32 cap screw tap 5/16-24</td>
</tr>
<tr>
<td>5-BFSR-1/8</td>
<td>1.75</td>
<td>1.50</td>
<td>.38</td>
<td>.25</td>
<td>.87</td>
<td>7/16-20 x 1.25</td>
<td>Two #10-32 holes on 1.75 dia bolt circle</td>
<td>1/4</td>
<td>5.18</td>
<td>1&quot;</td>
<td>2.69</td>
<td>1.00</td>
<td>12</td>
<td>.437</td>
<td>66</td>
<td>1.000</td>
<td>1.12</td>
<td>Two holes drill and c bored for 1/4-20 cap screw tap 5/16-18</td>
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<table>
<thead>
<tr>
<th>model code</th>
<th>piston area* - in² (per inch of stroke)</th>
<th>spring force pounds</th>
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<tbody>
<tr>
<td>8-BFSR</td>
<td>.17</td>
<td>1</td>
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<td>7-BFSR</td>
<td>.39</td>
<td>1.5</td>
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<td>6-BFSR</td>
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<tr>
<td>5-BFSR</td>
<td>1.62</td>
<td>8</td>
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*Area x PSIG = Approximate Force

---

### Pivot Bracket
- For use with pivot cylinders
- Cylinders can pivot through 120°
- One-piece construction for strength and ease of cylinder installation/removal
- Pivot pin and cotter pin supplied.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Cylinder Bore Sizes (model code)</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>
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<tbody>
<tr>
<td>BP-8-C</td>
<td>1/2 (8)</td>
<td>.20</td>
<td>.52</td>
<td>.43</td>
<td>.54</td>
<td>.22</td>
<td>.16</td>
<td>.50</td>
<td>.64</td>
</tr>
<tr>
<td>BP-11-C</td>
<td>3/4 (7) &amp; 1 1/16 (6)</td>
<td>.26</td>
<td>.65</td>
<td>.75</td>
<td>.87</td>
<td>.31</td>
<td>.26</td>
<td>.53</td>
<td>.87</td>
</tr>
<tr>
<td>BP-25-C</td>
<td>1 1/4 (25)</td>
<td>.32</td>
<td>.77</td>
<td>.75</td>
<td>.94</td>
<td>.31</td>
<td>.26</td>
<td>.53</td>
<td>1.06</td>
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<tr>
<td>BP-15-C</td>
<td>1 1/2 (5) &amp; 1 3/4 (75)</td>
<td>.39</td>
<td>.96</td>
<td>1.00</td>
<td>1.25</td>
<td>.38</td>
<td>.38</td>
<td>.52</td>
<td>1.37</td>
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<tr>
<td>BP-19-C</td>
<td>2 (4) &amp; 2 1/2 (3)</td>
<td>.45</td>
<td>1.20</td>
<td>1.00</td>
<td>1.43</td>
<td>.38</td>
<td>.38</td>
<td>.48</td>
<td>1.68</td>
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### Rod Clevis
- For use on all cylinders
- Smooth beveled ends
- Locknut, clevis pin and cotter pin supplied.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Cylinder Bore Sizes (model code)</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>
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<tbody>
<tr>
<td>CT-8</td>
<td>1/2 (8)</td>
<td>.38</td>
<td>.19</td>
<td>.75</td>
<td>.38</td>
<td>10-32</td>
<td>.19</td>
<td>.94</td>
<td>.12</td>
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<tr>
<td>CT-7</td>
<td>3/4 (7)</td>
<td>.50</td>
<td>.25</td>
<td>.94</td>
<td>.50</td>
<td>1/4-28</td>
<td>.26</td>
<td>1.20</td>
<td>.16</td>
</tr>
<tr>
<td>CT-11</td>
<td>1 1/16 (6)</td>
<td>.50</td>
<td>.26</td>
<td>.94</td>
<td>.50</td>
<td>5/16-24</td>
<td>.26</td>
<td>1.20</td>
<td>.19</td>
</tr>
<tr>
<td>CT-15</td>
<td>1 1/4 (25) &amp; 1 1/2 (5)</td>
<td>.75</td>
<td>.38</td>
<td>1.30</td>
<td>.75</td>
<td>7/16-20</td>
<td>.38</td>
<td>1.70</td>
<td>.25</td>
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<tr>
<td>CT-19</td>
<td>1 3/4(75),2(4), 2 1/2(3)</td>
<td>.75</td>
<td>.38</td>
<td>1.30</td>
<td>.75</td>
<td>1/2-20</td>
<td>.38</td>
<td>1.70</td>
<td>.31</td>
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### Foot Mount
- For nose mounting and double - end mounting
- Gusseted for added strength

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Cylinder Bore Sizes (model code)</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>
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<tbody>
<tr>
<td>F-8-S</td>
<td>1/2(8) single acting types</td>
<td>.31</td>
<td>.19</td>
<td>.62</td>
<td>1.00</td>
<td>.37</td>
<td>.38</td>
<td>56°</td>
<td>.57</td>
<td>1.38</td>
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<tr>
<td>F-8</td>
<td>1/2(8) double acting types</td>
<td>.31</td>
<td>.19</td>
<td>.62</td>
<td>1.00</td>
<td>.37</td>
<td>.44</td>
<td>56°</td>
<td>.57</td>
<td>1.38</td>
</tr>
<tr>
<td>F-7</td>
<td>3/4(7) single acting types</td>
<td>.44</td>
<td>.19</td>
<td>.75</td>
<td>1.25</td>
<td>.40</td>
<td>.50</td>
<td>45°</td>
<td>.69</td>
<td>1.63</td>
</tr>
<tr>
<td>F-11</td>
<td>3/4(7) double acting types</td>
<td>.56</td>
<td>.27</td>
<td>1.00</td>
<td>1.50</td>
<td>.56</td>
<td>.63</td>
<td>45°</td>
<td>.81</td>
<td>1.88</td>
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<tr>
<td>F-15</td>
<td>1 1/4(25) &amp; 1 1/2(5) All Types</td>
<td>.77</td>
<td>.27</td>
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<td>52°</td>
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<td>2.25</td>
<td>1.00</td>
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<td>1.62</td>
<td>2.88</td>
<td>1.25</td>
<td>1.50</td>
<td>63°</td>
<td>1.75</td>
<td>3.75</td>
</tr>
</tbody>
</table>

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- Air cylinder accessories are made of carbon steel
- Burnished for surface smoothness
- Bright zinc plated for corrosion resistance

---

*Model 8-SP requires one each JN-8-S and JN-8 for double end mount.
**Models 7-SP and 7-SHP require one each JN-7 and JN-11 for double end mount.
mounting nut / jam nut

- mounting nut for nose or pivot tang threads
- jam nut for locking rod clevis

<table>
<thead>
<tr>
<th>mounting nut #</th>
<th>where to use cylinder bore &amp; type</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
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<tbody>
<tr>
<td>JN-8-S</td>
<td>1/2(8) single acting</td>
<td>.56</td>
<td>22</td>
<td>3/8-24</td>
</tr>
<tr>
<td>JN-8</td>
<td>1/2(8) double acting</td>
<td>.68</td>
<td>25</td>
<td>7/16-20</td>
</tr>
<tr>
<td>JN-7</td>
<td>3/4(7) single acting</td>
<td>.75</td>
<td>31</td>
<td>1/2-20</td>
</tr>
<tr>
<td>JN-11</td>
<td>3/4(7) double acting</td>
<td>.93</td>
<td>37</td>
<td>5/8-18</td>
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<td></td>
<td>1 1/16(6) all types</td>
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<td></td>
</tr>
<tr>
<td>JN-15</td>
<td>1 1/4(25) all types</td>
<td>1.12</td>
<td>42</td>
<td>3/4-16</td>
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<tr>
<td></td>
<td>1 1/2(5) all types</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JN-75</td>
<td>1 3/4(75) all types</td>
<td>1.50</td>
<td>56</td>
<td>1-14</td>
</tr>
<tr>
<td>JN-19</td>
<td>2(4) all types</td>
<td>1.88</td>
<td>50</td>
<td>1 1/4-12</td>
</tr>
<tr>
<td>JN-21</td>
<td>2 1/2(3) All Types</td>
<td>2.06</td>
<td>50</td>
<td>1 3/8-12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>jam nut #</th>
<th>where to use cylinder bore size</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>C110-9</td>
<td>1/2(8)</td>
<td>.370</td>
<td>.12</td>
<td>10-32</td>
</tr>
<tr>
<td>C110-762</td>
<td>3/4(7)</td>
<td>.43</td>
<td>16</td>
<td>1/4-28</td>
</tr>
<tr>
<td>C110-763</td>
<td>1 1/16(6)</td>
<td>.50</td>
<td>19</td>
<td>5/16-24</td>
</tr>
<tr>
<td>JN-8</td>
<td>1 1/4(25) &amp; 1 1/3(5)</td>
<td>.68</td>
<td>25</td>
<td>7/16-20</td>
</tr>
<tr>
<td>JN-7</td>
<td>1 3/4(75) &amp; 2(4) &amp; 2 1/2(3)</td>
<td>.75</td>
<td>31</td>
<td>1/2-20</td>
</tr>
</tbody>
</table>
**FABCO-AIR** volume chambers

**C, CP, CPP types**  standard / end mount / double end mount

- C type: standard inline mount
- CP type: end mount
- CPP type: double end mount

- For vacuum or air
- Ideal for time delay circuits
- Stainless steel barrel
- Aluminum end caps
- Options: A and AA side porting.
- See page 18 and 19 for foot mount and mounting nuts. (CP, CPP models)

### how to order

<table>
<thead>
<tr>
<th>bore code</th>
<th>bore dia. in.</th>
<th>volume in $^3$</th>
<th>add per 1.0 inch length</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>1/2</td>
<td>.11</td>
<td>.20</td>
</tr>
<tr>
<td>7</td>
<td>3/4</td>
<td>.40</td>
<td>.44</td>
</tr>
<tr>
<td>6</td>
<td>1 1/16</td>
<td>.88</td>
<td>.89</td>
</tr>
<tr>
<td>25</td>
<td>1 1/4</td>
<td>1.44</td>
<td>1.23</td>
</tr>
<tr>
<td>5</td>
<td>1 1/2</td>
<td>1.68</td>
<td>1.77</td>
</tr>
<tr>
<td>75</td>
<td>1 3/4</td>
<td>3.29</td>
<td>2.41</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>4.04</td>
<td>3.14</td>
</tr>
<tr>
<td>3</td>
<td>2 1/2</td>
<td>6.38</td>
<td>4.91</td>
</tr>
</tbody>
</table>

*Add this volume to sum of the per inch volume. This basic volume exists before any 1-inch increments are added.

### example:

- 7-C-6A
- 5-CP-4
- 8-CPP-2-1/2

---

C Standard

Model CP

Model CPP

C with side port option A

C with side port option AA

CP with side port option A

---

Fabco double acting air cylinders, type D, DP, and BFD may be ordered with Option M, an internal magnet factory installed on the reversible piston, permitting use with position sensing switches. Cylinder models with Option M are interchangeable in length with other Fabco air cylinders, facilitating conversions of existing applications.

**sensor switches**

- **basic on/off reed switch**
  - **RS2 / RS2-L**
  - **Contacts:** SPST Form A (normally open)
  - **Contact Rating:** 50W Max.
  - **Voltage Rating:** 200 VDC Max.
  - **141 VAC Max.**
  - **Switching current:** 1A Max.
  - **Initial Contact Resistance:** 1 Ohm Max.
  - **Minimum Breakdown Voltage:** 225 VDC
  - **275 VAC**
  - **Temperature Range:** -40°F to 200°F
  - **(-40°C to 93°C)**

- **on/off reed switch w/LED**
  - **RS4 / RS4-L**

- **non-contact solid state switch**
  - **GMR1 / GMR1-L**
  - **Model**
    - **RS-2**
    - **RS-2L**
    - **RS-2-PSMK**
    - **RS-4**
    - **RS-4L**
    - **RS-4-PSMK**
    - **GMR-1**
    - **GMR-1L**
    - **GMR-1-PSMK**
    - **PSMK**
  - **Mounting Kit:** Mounts sensor to Fabco Cylinder. Assembly instructions are included with shipment.

**How to order**

- **Model**
  - **RS2**
  - **RS4**
  - **GMR1**
- **Lead Length**
  - **24 in:**
  - **144 in:**
- **Mount**
  - **w/o Mt:**
  - **w/ Mt: PSMK**

**RS4**

- **RS2**
- **RS4**
- **GMR1**

- **RS2-L**
- **RS-2L**
- **RS-2-PSMK**
- **RS-4**
- **RS-4L**
- **RS-4-PSMK**
- **GMR-1**
- **GMR-1L**
- **GMR-1-PSMK**
- **PSMK**

Cylinder Accessories
Magnetic Position Sensors

Magnetically operated reed switches and electronic sensors can be mounted anywhere along the length and circumference of the cylinder. A magnetic piston is required.

**Temperature range:** -4° to +176°F (-20° to +80°C)

### Dovetail Style Sensors

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Electrical Characteristics</th>
<th>Prewired 9 ft. Leadwire</th>
<th>Quick Disconnect*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reed (No LED)</td>
<td>0-120 VDC/VAC, 0.5 Amp Max current, 5 Watt Max, 0 Voltage Drop</td>
<td>Part No. 949-000-001</td>
<td>$18.95</td>
</tr>
<tr>
<td>Reed (LED)</td>
<td>5-120 VDC/VAC, 0.03 Amp Max current, 4 Watt Max, 2.0 Voltage Drop</td>
<td>Part No. 949-000-002</td>
<td>$19.80</td>
</tr>
<tr>
<td>Electronic (LED)</td>
<td>Sourcing PNP 5-28 VDC, 0.20 Amp Max current, 1.0 Voltage Drop</td>
<td>Part No. 949-000-031</td>
<td>$25.00</td>
</tr>
<tr>
<td>Electronic (LED)</td>
<td>Sinking NPN 5-28 VDC, 0.20 Amp Max current, 1.0 Voltage Drop</td>
<td>Part No. 949-000-032</td>
<td>$25.00</td>
</tr>
</tbody>
</table>

*Note: Quick disconnect styles are supplied with 6 inch pigtail with male connector. Order female cordsets separately from chart below.

### Mounting Options

- Encased in a plastic housing, dovetail style sensors are corrosion resistant. 60° wire outlet allows close mounting.
- Two methods of mounting are available: one is fastened to the cylinder barrel with a **band clamp** (not included with sensor – must be ordered separately); the second is an adhesive-backed **mounting rail** with twin dovetail slots.

### Clamp on Style Sensors

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Electrical Characteristics</th>
<th>Prewired 9 ft. Leadwire</th>
<th>Quick Disconnect*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reed (LED)</td>
<td>5-120 VAC/VDC, 0.5 Amp Max, 10 Watt Max, SPST N.O. 3.5 voltage drop</td>
<td>Part No. 9-2A197-1003</td>
<td>9-2A197-1303</td>
</tr>
<tr>
<td>Electronic (LED)</td>
<td>Sourcing, PNP, 6-24 VDC, 0.5 Amp Max, 1.0 voltage drop</td>
<td>Part No. 9-2A197-1031</td>
<td>9-2A197-1331</td>
</tr>
<tr>
<td>Electronic (LED)</td>
<td>Sinking, NPN, 6-24 VDC, 0.5 Amp Max, 1.0 voltage drop</td>
<td>Part No. 9-2A197-1032</td>
<td>9-2A197-1332</td>
</tr>
</tbody>
</table>

### Band Clamp Adapter for Dovetail Sensors

| Part No. 900-300-000    | Price: $8.55         |

### Band Clamp for Clamp On Sensors

| Part No. 800-A00-000    | Price: $8.10         |

### Female Cordsets for Quick Disconnect Sensors

<table>
<thead>
<tr>
<th>Cordset Length</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Meter</td>
<td>CFC-1M</td>
<td>-</td>
</tr>
<tr>
<td>2 Meters</td>
<td>CFC-2M</td>
<td>-</td>
</tr>
<tr>
<td>5 Meters</td>
<td>CFC-5M</td>
<td>-</td>
</tr>
</tbody>
</table>

*Quick disconnect style sensors are supplied with male connector as shown in this photo. Order female cordsets separately from chart below.

Prices effective Jan 2, 2017

Exclusive with Fabco Air Cylinders (except SH, SHP, and D2EY models), you may choose from 15 unique, custom rod-end design selections, and have Fabco tailor it to your exact requirements.

The 15 themes are shown below, and address customizable features such as rod extension length, wrench flat position, male or female rod thread and rod thread length, plain rod end, rounded rod end, ring grooves, rod diameter reductions, and (cotter) pin holes.

Each of the 15 different rod end selections includes a specific set of user definable dimensions selected from the Deluxe Rod End Workbook. Expect normal lead times and no minimum order quantities. A unique model number is assigned at the initial build cycle. That part number is permanently available for future orders of the same make.

Examples of part numbers utilizing codes below are: 7-S-2 DX01-00039 and 5-S-1N DX12-00015.

**example:**

6-DP-1 DX05-00145

DX05-00145 specs:
- D = 1.5"  
- J = 10-32 UNF  
- JL = 0.25"
Notes
Please visit http://portal.fabco-air.com/con figured.php for current pricing.

For more options see our F-Series Catalog or visit the configure page at FABCO-AIR.COM

Stainless Steel Body Air Cylinders Catalog #SSB-03

Fabco-Air.com
Price & Delivery
Downloadable CAD

Cylinders, Valves & Accessories
Catalog #CV9

Pancake® II Air Cylinders
Catalog #Pan2-2

Square Pancake® II Air Cylinders
Catalog #SqPan2

ISO 6431 Cylinders
Catalog #FAQ2R-14

Twin Rod, Non-Rotating Air Cylinders - Catalogs #FD7-09 & #FDX5-09

High Closing Force Angular Grippers Catalog #FKHC-10

Multi-Power® Air Presses
Catalog #FP16

Swing Clamps
Catalog #SC DB04

Linear Slides - 6 Families
Catalog #LS-03

Compact Finger Slides
Catalog #FDR-10

ISO 6432 Cylinders
Catalog #FAE-09

Stopper Cylinders
Catalog #ST-SC

NAMUR Solenoid Valves
Catalog #FVEN-10

Global Series™ Cylinders
Catalog #GCC-15

Air Pilot and Solenoid Valves
Catalog #FVA.E-09

Air Table Slides
Catalog #FGXS-10

Wide & Narrow Parallel Grippers - Catalogs #FKHZ-10 & #FKCHQ-10

Toggle Type Angular Grippers Catalog #FKHC-10

Modular Air Preparation System - FRLs
Catalog #FRL-06

Guided Motion Air Cylinders
Catalog #GOM-10

Pneumatic Rotary Actuators
Catalog #FRA.C-09

Parallel & Angular Grippers
Catalog #GGR8

Pneumatic & Hydraulic Swing Clamps
Catalog #FML.H

Wide Opening Parallel Grippers Catalog #FKHL-10

NAMUR Solenoid Valves
Catalog #FVEN-10

Global Series™ Metric Air Cylinders
Catalog #GKC-15

Air Pilot and Solenoid Valves
Catalog #FVA.E-09

Air Table Slides
Catalog #FGXS-10

Wide & Narrow Parallel Grippers - Catalogs #FKHZ-10 & #FKCHQ-10

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