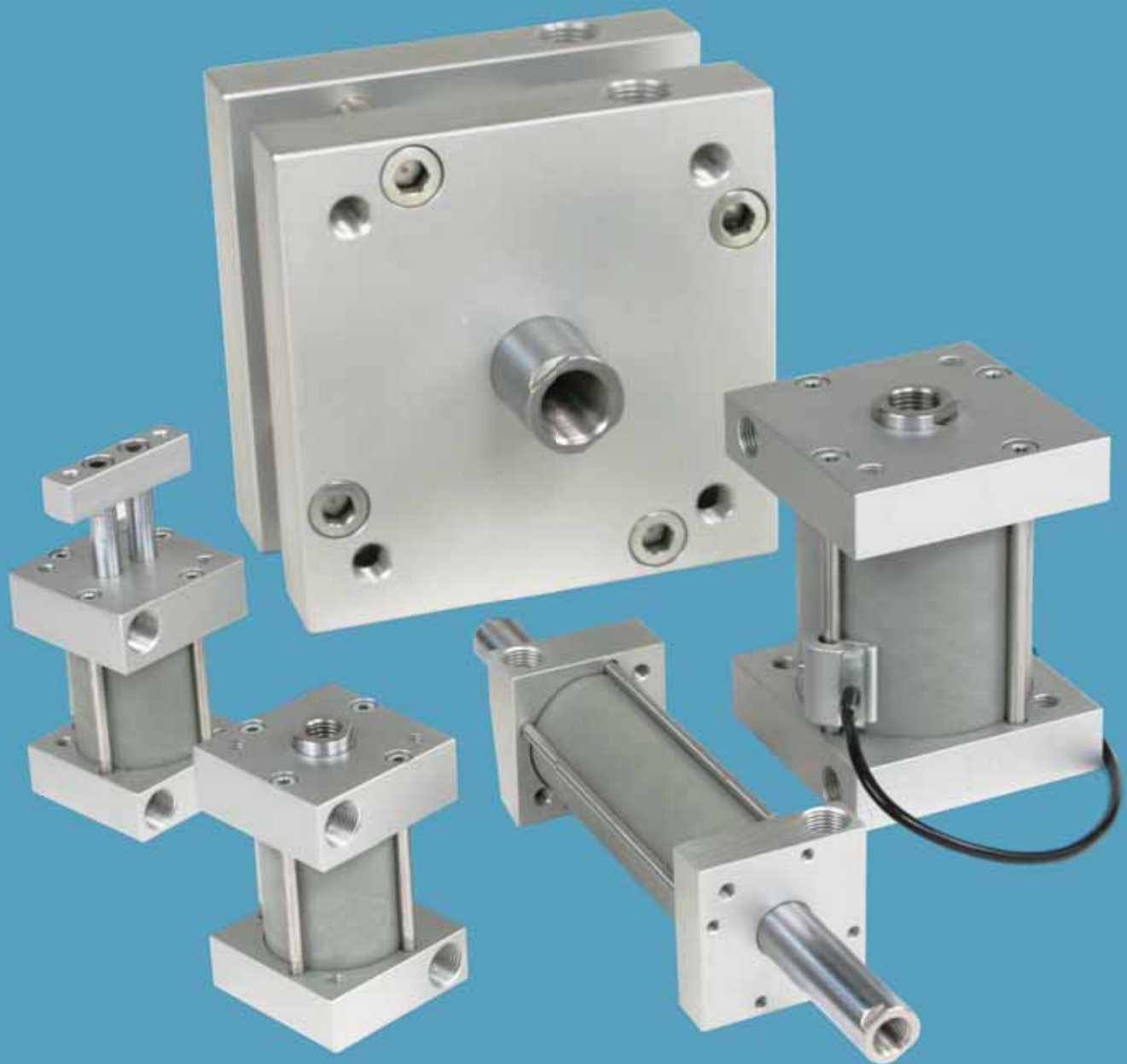




# *Square Pancake<sup>®</sup> II Air Cylinders*

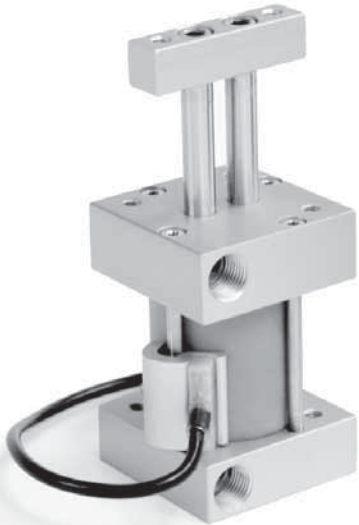


## Product Index



### Standard Series SSD, SSR, SSX, SWD, STD

|                        |       |
|------------------------|-------|
| How it works . . . . . | 3     |
| How to Order . . . . . | 5     |
| Dimensions . . . . .   | 6 - 9 |
| Options . . . . .      | 8, 9  |
| Weights . . . . .      | 7     |



### Nonrotating , Twin Rod Series SND

|                        |        |
|------------------------|--------|
| How it works . . . . . | 10     |
| How to Order . . . . . | 11     |
| Dimensions . . . . .   | 12, 13 |
| Options . . . . .      | 12, 13 |
| Weights . . . . .      | 12     |

### Magnetic Position Sensing

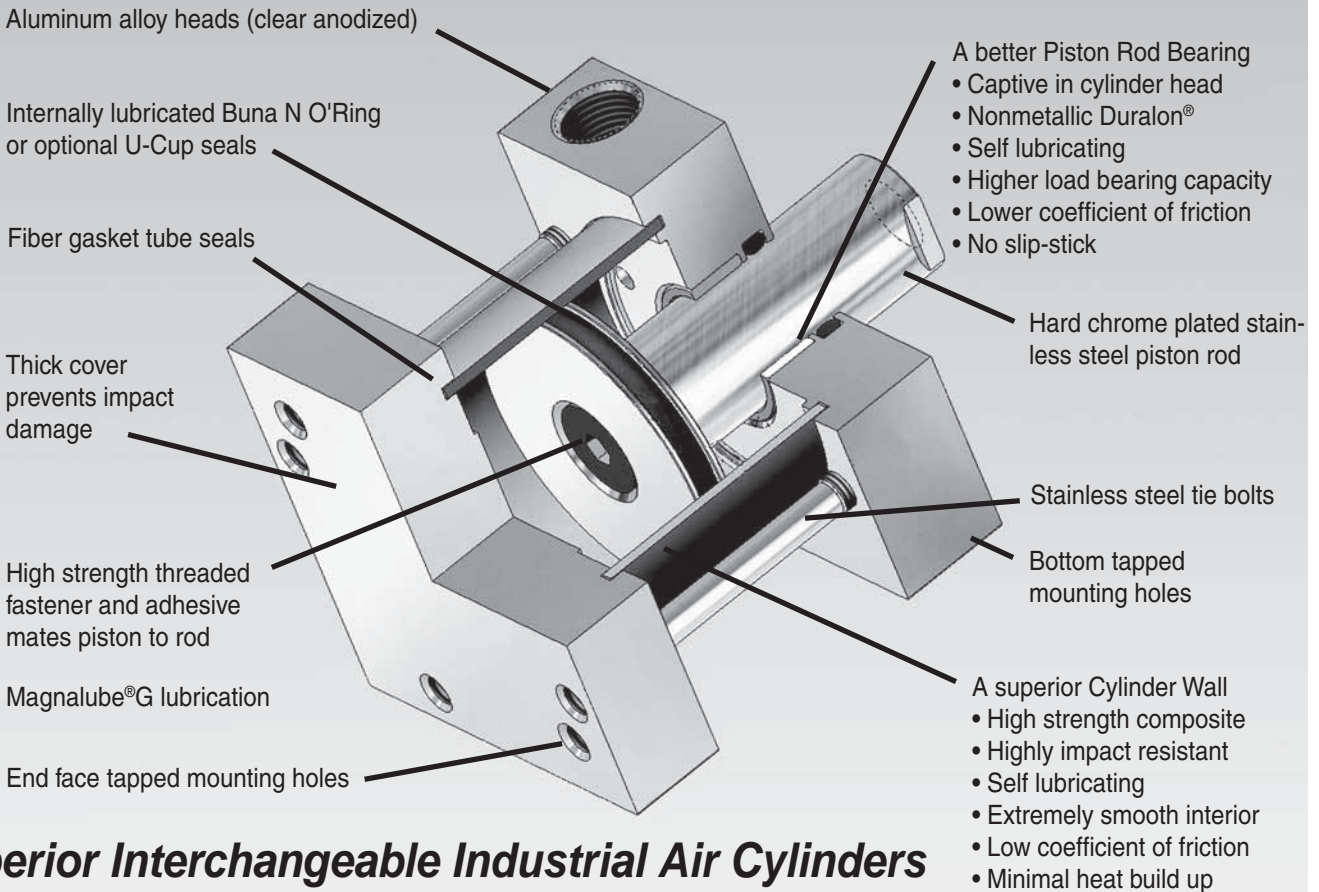
|                                     |    |
|-------------------------------------|----|
| Sensors . . . . .                   | 15 |
| Quick disconnect cordsets . . . . . | 15 |

### Accessories

|                      |    |
|----------------------|----|
| All series . . . . . | 14 |
|----------------------|----|

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- Magnalube®-G is a registered trademark of Carleton Stuart Corp.
- Multi-Power® and Pancake® are registered trademarks of Fabco-Air, Inc.
- Dacron®, Teflon® and Viton® are registered trademarks of DuPont Corp.

## The Square Pancake® II Direct Interchange Air Cylinders



### Superior Interchangeable Industrial Air Cylinders

**Innovation** – For over 40 years our famous Pancakes® have dominated as the world's first compact air cylinder line. Today, backed by decades of engineering and manufacturing innovation, our new **Pancake® II** composite body air cylinders continue in the Pancake® tradition with a wide selection of models and options.

**Packed with value** – Stainless steel tie bolts lock precision machined heads tightly around a unique, high strength, composite cylinder barrel. The barrel's extremely smooth, self-lubricating interior surface insures highly reliable performance and extended seal life. Its high impact resistance reduces chances of cylinder failure due to dings or dents. Zero slip-stick avoids problems that metal cylinders encounter when they sit in a static condition for extended periods of time. Combined with hard chrome plated stainless steel piston rods and a unique, nonmetallic rod bearing, the new Fabco-Air cylinder assembly assures optimal operation and longer product life.

**Exceptional Piston Rod Bearing** – The better the bearing, the more cycle life you can expect from your air cylinders. **Pancake® II** cylinders incorporate a truly superior rod bearing material - Duralon® with the same field-proven performance you have come to expect from the six other Fabco-Air cylinder families.

### Duralon® Rod Bearings Excel

| Load Capacity (psi)     |        | Friction Properties        |             |            |
|-------------------------|--------|----------------------------|-------------|------------|
| Machine Design 1972/73  |        |                            |             |            |
| Bearing Reference Issue |        |                            |             |            |
|                         |        |                            | Coefficient | Slip-stick |
| Porous Bronze.....      | 4,500  | Steel-on-steel.....        | .50         | Yes        |
| Porous iron.....        | 8,000  | Bronze-on-steel.....       | .35         | Yes        |
| Phenolics.....          | 6,000  | Sintered Bronze-on-steel   |             |            |
| Nylon®.....             | 1,000  | with mineral oil .....     | .13         | No         |
| TFE.....                | 500    | Bronze-on-steel            |             |            |
| Reinforced Telfon®..... | 2,500  | with mineral oil .....     | .16         | No         |
| *TFE fabric.....        | 60,000 | Copper lead alloy-on-steel | .22         | Yes        |
| Polycarbonate.....      | 1,000  | Acetal-on-steel.....       | .20         | No         |
| Acetal.....             | 1,000  | Nylon-on-steel.....        | .32         | Yes        |
| Carbon-graphite.....    | 600    | Duralon-on-steel.....      | .05 - .16   | No         |

\* Shows Duralon bearing classification. Not to be used for design purposes.

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Duralon® is a composite of a Teflon®/Dacron® fabric liner bonded to a supporting filament-wound, high strength, fiberglass and epoxy resin shell. Resistant to corrosion, moisture and temperature to 325°F, the bearing is reliable in any environment. It has an extremely high load bearing capacity, very low friction, and will not gall or score the piston rod (see physical properties in the table above).



# How to Order

|  |               |   |               |  |   |   |                |  |  |
|--|---------------|---|---------------|--|---|---|----------------|--|--|
| <p><u>Series</u></p> <p><b>S - Square Pancake® II</b></p>  |               | <p><u>Action</u></p> <p><b>D</b> - double acting<br/> <b>R</b> - single acting, spring retract (Model S only)<br/> <b>X</b> - single acting, spring extend (Model S only)</p> |               | <p><u>Bore</u></p> <p><b>2</b> - 3/4"<br/> <b>3</b> - 1-1/16"<br/> <b>4</b> - 1-1/2"<br/> <b>5</b> - 2"<br/> <b>6</b> - 2-1/2"<br/> <b>7</b> - 3"<br/> <b>8</b> - 4"</p> |   | <p><u>Stroke</u></p> <p><b>0.125</b> - 1/8"<br/> <b>0.250</b> - 1/4"<br/> <b>0.375</b> - 3/8"<br/> <b>0.500</b> - 1/2"<br/>                 etc., thru<br/> <b>4.000</b> - 4"<br/>                 (see pages 6 &amp; 7 for standard strokes)</p> |                | <p>Note:<br/>                 Special strokes are available on request. Contact Engineering or your local Fabco-Air Distributor.</p> |  |
| <p><u>Model</u></p> <p><b>S</b> - single rod<br/> <b>W</b> - double rod<br/> <b>T</b> - double rod, hole thru</p>  |               |   |               |  |   |   |                |  |  |
| <b>Model Number</b>  | <b>Series</b> | <b>Model</b>  | <b>Action</b> | <b>Bore</b>  | <b>Mounting</b>   | <b>Stroke</b>   | <b>Options</b> |  |  |
| <p><u>Mounting</u></p> <p>Tapped mounting holes are standard in the basic model and need not be specified. For other mounting specify only one option code.</p> <p>Leave Blank - Basic Model<br/> <b>PM</b> - Pivot mount, pin 90° from port<br/> <b>SM</b> - Pivot mount, pin in-line with port</p>   |               |   |               |  | <p><u>Options</u> <b>Enter in alphabetical order</b></p> <p><b>B</b> - Bumpers, both ends<sup>1</sup><br/> <b>BF</b> - Bumper, front only<sup>1</sup><br/> <b>BR</b> - Bumper, rear only<sup>1</sup><br/> <b>E</b> - Magnet on piston for position sensing (see sensors page 15; length adds page 8) 3/8" stroke minimum<sup>2</sup><br/> <b>J</b> - Failsafe operation (single acting, spring retract models)<br/> <b>L</b> - Low friction seals (see length adders page 8)<br/> <b>M, M1, M4</b> - Magnet on piston and adhesive mounted dovetail extrusion to hold 1/4" dovetail sensors. (see sensors page 15; length adders page 8) 3/8" stroke min.<sup>2</sup><br/> <b>Q</b> - Low temperature operation (-40°F to +200°F)<br/> <b>TCF</b> - Coarse female rod thread, dimension E (page 7)<br/> <b>TCM</b> - Male rod end with coarse thread (page 8)<br/> <b>TFM</b> - Male rod end with fine thread (page 8)<br/> <b>TN</b> - Non-threaded rod<br/> <b>T1, T4</b> - Additional adhesive mounted dovetail extrusions located in position 1 or 4<br/> <b>V</b> - Viton seals for media compatibility (-15°F to +225°F)<br/> <b>W</b> - Rod wiper, Buna N only (page 8)<br/> <b>X</b> - EXTRA Rod extension<br/>                 Example: X0.5 = 1/2" EXTRA Rod Extension<br/>                 X1 = 1" EXTRA Rod Extension</p> |   |                |  |  |
| <p><b>How to Order</b></p> <p>1. Specify <b>S</b>, Model, Action, and Bore<br/>                 2. Specify optional Mounting (if required) then Stroke<br/>                 3. Specify the Options in alphabetical order</p> <p>Ordering example #1: <b>SSD4-PM2.500-BFV</b></p> <p><b>Square Pancake® II</b> single rod, double acting, 1-1/2" bore, pivot mount (pin 90° from port), 2-1/2" stroke, front bumpers, and Viton seals.</p> <p>Ordering example #2: <b>SSD3-1.000</b></p> <p><b>Square Pancake® II</b> single rod, double acting, 1-1/16" bore, standard tapped mounting holes, and 1" stroke.</p> |               |   |               |  | <p><sup>1</sup> Stroke is reduced by .03 per end; .06 for option B; Spring retracted, BR only; Spring extended, BF only.</p> <p><sup>2</sup> Not available with Viton seals or low temperature seals.</p>   |   |                |  |  |

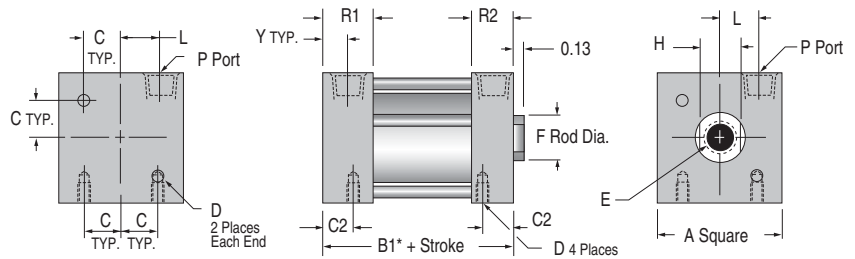


# Square Pancake® II Cylinders

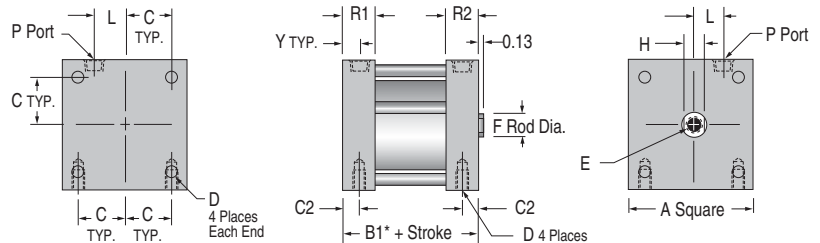
## Model SSD Double Acting, Single Rod



**Bore Sizes**  
 3/4", 1-1/16",  
 1-1/2", 2"



**Bore Sizes**  
 2-1/2", 3", 4"

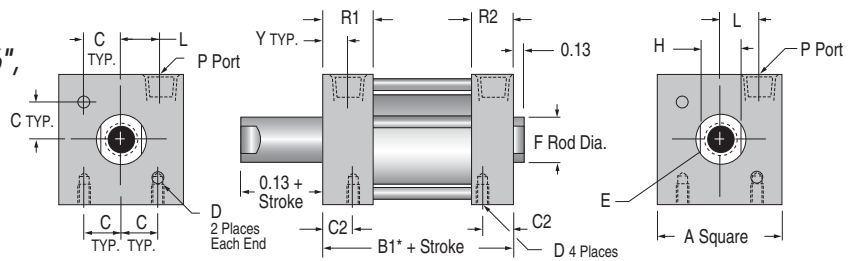


**\*Note: Some options effect cylinder length.**

**Standard Strokes – All Models:** • 1/8 • 1/4 • 3/8 • 1/2 • 5/8 • 3/4 • 7/8 • 1 • 1-1/4 • 1-1/2 • 1-3/4 • 2 • 2-1/2 • 3 • 3-1/2 • 4  
**Special strokes available on request. Contact Engineering or your local Fabco-Air Distributor**

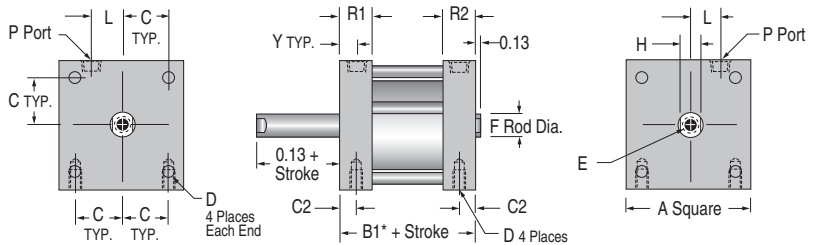
## Model SWD Double Acting, Double Rod

**Bore Sizes**  
 3/4", 1-1/16",  
 1-1/2", 2"



## Model STD Double Acting, Hole Thru Double Rod

**Bore Sizes**  
 2-1/2", 3", 4"



**\*Note: Some options effect cylinder length.**

| Hole Thru Diameter (STD) |                   |                 |
|--------------------------|-------------------|-----------------|
| Bore                     | Female Rod Thread | Male Rod Thread |
| 3/4 (2)                  | 0.14              | 0.09            |
| 1-1/16 (3)               | 0.22              | 0.16            |
| 1-1/2 (4)                | 0.28              | 0.19            |
| 2 (5)                    | 0.38              | 0.25            |
| 2-1/2 (6)                | 0.38              | 0.25            |
| 3 (7)                    | 0.44              | 0.31            |
| 4 (8)                    | 0.50              | 0.38            |

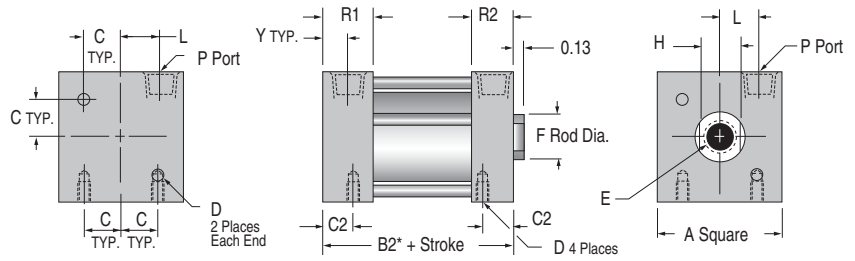
### Dimensions (inches)

| Bore       | A    | B1*  | B2* for Stroke Range |         |         |         | B3* for Stroke Range |         |         |         | C    | C2   | D           |
|------------|------|------|----------------------|---------|---------|---------|----------------------|---------|---------|---------|------|------|-------------|
|            |      |      | 0-1                  | 1.001-2 | 2.001-3 | 3.001-4 | 0-1                  | 1.001-2 | 2.001-3 | 3.001-4 |      |      |             |
| 3/4 (2)    | 1.25 | 0.75 | 1.00                 | 1.56    | 2.13    | 2.69    | 1.25                 | 1.81    | 2.38    | 2.94    | 0.38 | 0.28 | #6-32 UNC   |
| 1-1/16 (3) | 1.50 | 1.25 | 1.25                 | 1.88    | 2.50    | 3.13    | 1.75                 | 2.38    | 3.00    | 3.63    | 0.50 | 0.38 | #8-32 UNC   |
| 1-1/2 (4)  | 2.00 | 1.25 | 1.25                 | 1.88    | 2.50    | 3.13    | 1.75                 | 2.38    | 3.00    | 3.63    | 0.69 | 0.31 | #10-24 UNC  |
| 2 (5)      | 2.50 | 1.31 | 1.31                 | 1.94    | 2.56    | 3.19    | 1.81                 | 2.44    | 3.06    | NA      | 0.88 | 0.38 | 1/4-20 UNC  |
| 2-1/2 (6)  | 3.25 | 1.66 | 1.66                 | 2.54    | 3.41    | 4.29    | 2.39                 | 3.27    | 3.29    | NA      | 1.18 | 0.42 | 5/16-18 UNC |
| 3 (7)      | 3.75 | 1.71 | 1.71                 | 2.58    | 3.46    | 4.33    | 2.44                 | 3.31    | 3.33    | NA      | 1.44 | 0.44 | 5/16-18 UNC |
| 4 (8)      | 5.00 | 2.00 | 2.00                 | 2.88    | 3.75    | 4.63    | 2.75                 | 3.62    | 3.63    | NA      | 1.81 | 0.50 | 7/16-14 UNC |

# Standard Series SSD, SSR, SSX, SWD, STD Basic Dimensions

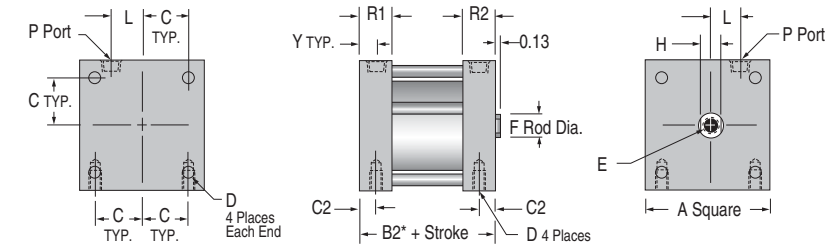
## Model SSR Single Acting, Spring Retract

**Bore Sizes**  
3/4", 1-1/16",  
1-1/2", 2"



**\*Note:** Some options effect cylinder length. See table on page 4 for spring forces.

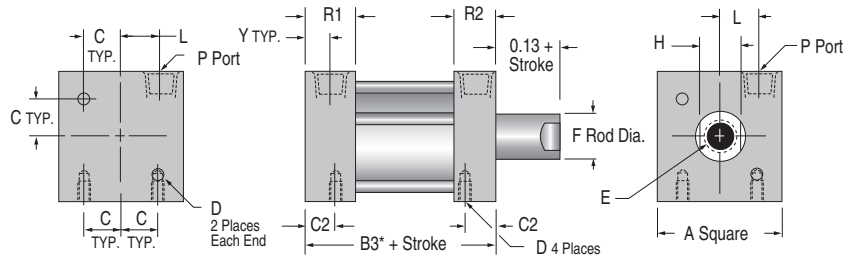
**Bore Sizes**  
2-1/2", 3", 4"



**Standard Strokes – All Models\*:** • 1/8 • 1/4 • 3/8 • 1/2 • 5/8 • 3/4 • 7/8 • 1 • 1-1/4 • 1-1/2 • 1-3/4 • 2 • 2-1/2 • 3 • 3-1/2 • 4  
 (\*Note For SSX Models: 3" stroke max on 2" to 4" bores) Special strokes available on request. Contact Engineering or your local Fabco-Air Distributor

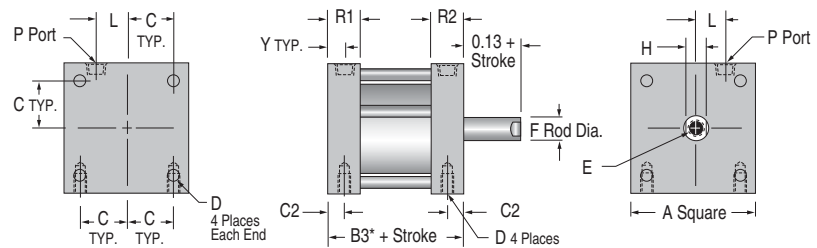
## Model SSX Single Acting, Spring Extend

**Bore Sizes**  
3/4", 1-1/16",  
1-1/2", 2"



**\*Note:** Some options effect cylinder length. See table on page 4 for spring forces.

**Bore Sizes**  
2-1/2", 3", 4"



### Approximate Cylinder Weights (ounces) SSD, SSR, SWD, STD, SSX

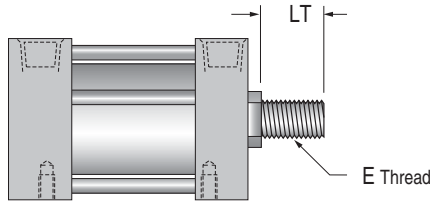
| Bore       | SSD, SSR |                         | SWD, STD |                                   | SSX                                   |       |                         |
|------------|----------|-------------------------|----------|-----------------------------------|---------------------------------------|-------|-------------------------|
|            | Base     | Adder per 1/8 of Stroke | Base     | Adder per 1/8 of Stroke Model SWD | Adder per 1/8 of Stroke for Model STD | Base  | Adder per 1/8 of Stroke |
| 3/4 (2)    | 2.11     | .08                     | 2.50     | .18                               | .13                                   | 2.11  | .08                     |
| 1-1/16 (3) | 4.89     | .24                     | 5.47     | .37                               | .25                                   | 5.28  | .24                     |
| 1-1/2 (4)  | 9.70     | .32                     | 10.08    | .55                               | .42                                   | 9.98  | .32                     |
| 2 (5)      | 13.63    | .40                     | 15.36    | .64                               | .50                                   | 14.40 | .40                     |
| 2-1/2 (6)  | 27.46    | .48                     | 32.83    | .74                               | .59                                   | 29.95 | .48                     |
| 3 (7)      | 38.59    | .64                     | 47.33    | 1.01                              | .76                                   | 42.05 | .64                     |
| 4 (8)      | 68.74    | .80                     | 84.19    | 1.20                              | .92                                   | 74.59 | .80                     |

### Dimensions (inches)

| Bore       | E Standard  | E Coarse    | E Depth for stroke range |      | F    | H    | L    | P Port  | R1   | R2   | Y    |
|------------|-------------|-------------|--------------------------|------|------|------|------|---------|------|------|------|
|            |             |             | 1/8 - 1/2                | 5/8+ |      |      |      |         |      |      |      |
| 3/4 (2)    | #10-32 UNF  | #10-24 UNC  | 0.30 - 0.46              | 0.46 | 0.31 | 0.25 | 0.30 | #10-32  | 0.42 | 0.42 | 0.14 |
| 1-1/16 (3) | 5/16-24 UNF | 5/16-18 UNC | 0.37 - 0.63              | 0.70 | 0.50 | 0.44 | 0.50 | 1/8 NPT | 0.50 | 0.58 | 0.25 |
| 1-1/2 (4)  | 3/8-24 UNF  | 3/8-16 UNC  | 0.37 - 0.70              | 0.70 | 0.63 | 0.50 | 0.73 | 1/8 NPT | 0.50 | 0.58 | 0.25 |
| 2 (5)      | 1/2-20 UNF  | 1/2-13 UNC  | 0.30 - 0.63              | 0.70 | 0.75 | 0.63 | 0.77 | 1/8 NPT | 0.63 | 0.63 | 0.25 |
| 2-1/2 (6)  | 1/2-20 UNF  | 1/2-13 UNC  | 0.42 - 0.70              | 0.70 | 0.75 | 0.63 | 0.75 | 1/4 NPT | 0.84 | 0.84 | 0.31 |
| 3 (7)      | 5/8-18 UNF  | 5/8-11 UNC  | 0.45 - 0.73              | 0.73 | 0.88 | 0.75 | 0.88 | 1/4 NPT | 0.88 | 0.88 | 0.31 |
| 4 (8)      | 3/4-16 UNF  | 3/4-10 UNC  | 0.40 - 0.70              | 0.80 | 1.00 | 0.88 | 1.25 | 3/8 NPT | 1.00 | 1.00 | 0.44 |

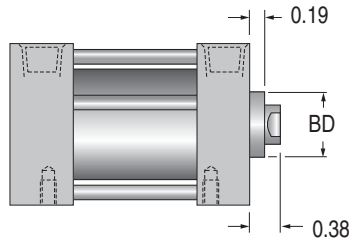
## Model Options

### Male Rod Ends (Option TCM or TFM)



| Thread Sizes |              |             |      |
|--------------|--------------|-------------|------|
| Bore         | E Thread     |             | LT   |
|              | TCM (Coarse) | TFM (Fine)  |      |
| 3/4 (2)      | #10-24 UNC   | #10-32 UNF  | 0.38 |
| 1-1/16 (3)   | 5/16-18 UNC  | 5/16-24 UNF | 0.50 |
| 1-1/2 (4)    | 3/8-16 UNC   | 3/8-24 UNF  | 0.50 |
| 2 (5)        | 1/2-13 UNC   | 1/2-20 UNF  | 0.63 |
| 2-1/2 (6)    | 1/2-13 UNC   | 1/2-20 UNF  | 0.63 |
| 3 (7)        | 5/8-11 UNC   | 5/8-18 UNF  | 0.75 |
| 4 (8)        | 3/4-10 UNC   | 3/4-16 UNF  | 0.75 |

### Rod Wiper (Option W) Buna-N only



| Boss Dia.  |      |
|------------|------|
| Bore       | BD   |
| 3/4 (2)    | 0.69 |
| 1-1/16 (3) | 0.88 |
| 1-1/2 (4)  | 1.00 |
| 2 (5)      | 1.13 |
| 2-1/2 (6)  | 1.13 |
| 3 (7)      | 1.25 |
| 4 (8)      | 1.38 |

### Deviations from Standard Dimensions (Options L, E, M)

† A minimum stroke of 3/8" is required to sense end-of-stroke positions.

| Length Adder (inches) |                         |   |
|-----------------------|-------------------------|---|
| Bore                  | Low Friction Seals<br>L | Magnetic Position Sensing†<br>with and without Low Friction Seals |
|                       |                         | E, M, EL or LM  |
| 3/4 (2)               | 0.25                    | 0.75  |
| 1-1/16 (3)            | 0.38                    | 0.50  |
| 1-1/2 (4)             | 0.38                    | 0.63  |
| 2 (5)                 | 0.38                    | 0.63  |
| 2-1/2 (6)             | 0.38                    | 0.88  |
| 3 (7)                 | 0.50                    | 0.88  |
| 4 (8)                 | 0.50                    | 0.88  |

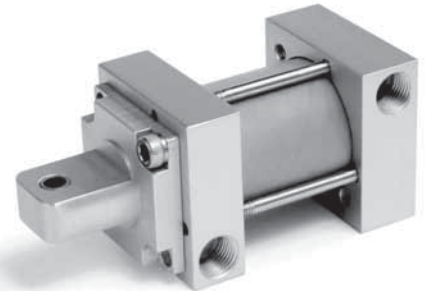
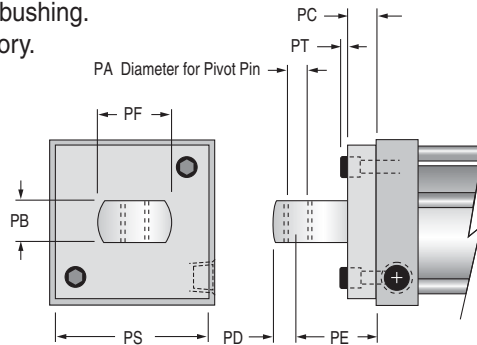


## Mounting Options

### PM Pivot Mount -

#### Pin 90° from Port

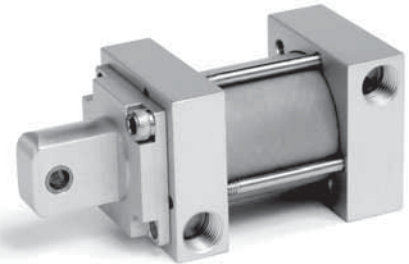
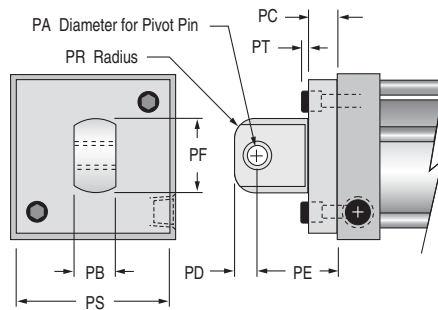
Complete with bronze pivot bushing.  
Also available as an accessory.  
See page 14.



### SM Pivot Mount -

#### Pin in line with Port

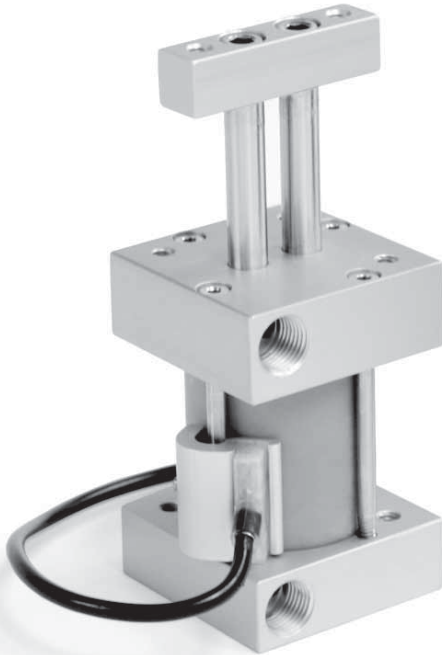
Complete with bronze pivot bushing.  
Also available as an accessory.  
See page 14.



*Dimensions (inches)*

| Bore       | PA   | PB   | PC   | PD   | PE   | PF   | PR   | PS   | PT   |
|------------|------|------|------|------|------|------|------|------|------|
| 3/4 (2)    | 0.19 | 0.38 | 0.19 | 0.25 | 0.75 | 0.75 | 0.19 | 1.13 | 0.02 |
| 1-1/16 (3) | 0.19 | 0.38 | 0.25 | 0.25 | 0.81 | 0.75 | 0.19 | 1.25 | 0.02 |
| 1-1/2 (4)  | 0.38 | 0.75 | 0.25 | 0.44 | 1.19 | 1.38 | 0.38 | 1.75 | 0.03 |
| 2 (5)      | 0.38 | 0.75 | 0.31 | 0.44 | 1.38 | 1.38 | 0.38 | 2.25 | 0.08 |
| 2-1/2 (6)  | 0.38 | 0.75 | 0.38 | 0.44 | 1.31 | 1.38 | 0.38 | 3.00 | 0.05 |
| 3 (7)      | 0.63 | 1.00 | 0.38 | 0.56 | 1.69 | 1.88 | 0.38 | 3.50 | 0.05 |
| 4 (8)      | 0.63 | 1.00 | 0.44 | 0.56 | 1.75 | 1.88 | 0.38 | 4.50 | 0.12 |

# Square Pancake® II Cylinders



## Nonrotating, double acting 4 Bore sizes 3/4" thru 2" Strokes to 4" standard

Twin piston rods are incorporated into the cylinder head to achieve NON-ROTATION. The rods are securely fastened to the piston and tied together externally by a rod end tool bar. The tool bar insures that the rods move in tandem and provides an ideal mounting surface for any attachments required by your application. The tool bar is furnished with threaded mounting holes or optional counter-bored mounting holes.

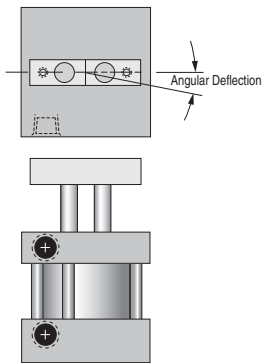
End face and bottom surface tapped mounting holes allow accurate and convenient vertical, horizontal and parallel alignment.

### Ratings – Standard Units all Series

- Body . . . . . Self-lubricating composite
- Heads . . . . . Clear anodized aluminum alloy
- Tie Bolts . . . . . Stainless steel
- Rod . . . . . Chrome plated stainless steel
- Piston . . . . . Stainless steel
- Rod end . . . . . Tool bar
- Ports . . . . . Position #1
- Seals . . . . . Internally lubricated Buna-N
- Lubrication . . . . . Magnalube®-G
- Rod bushing . . . . . Bronze
- Stroke tolerance . . . . . ± 1/64"
- Media . . . . . Air
- Pressure rating, maximum . . . . . 200 psi
- Minimum recommended operating pressure . . . . . 15 psi
- Temperature rating Cylinder . . . . . -25° to +221°F (-32° to +105°C)
- Temperature rating Electronic sensors . . . . . -4° to +176°F (-20° to +80°C)

### Allowable Torsion Load and Rotational Tolerance

Side loading should be avoided for any cylinder application. The smaller diameter twin rods will have more deflection due to side load than the one standard rod in a comparable **Square Pancake® II** cylinder. However, the SND Series is designed to work satisfactorily against pure torsional loads. Maximum torsional load per bore size is shown in the following table.



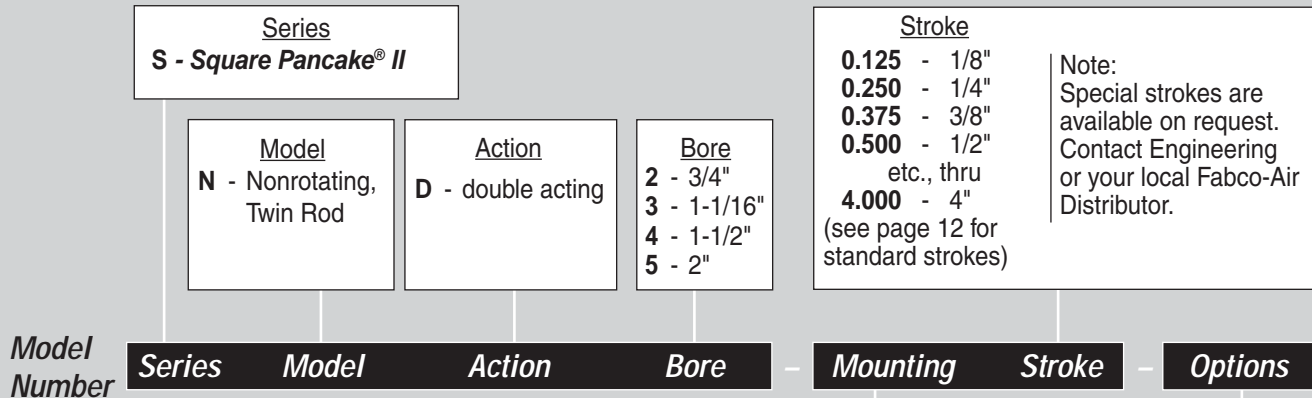
| Approximate Angular Deflection (Degrees) due to max. torsional load |                     |                |      |       |      |       |      |
|---|---------------------|----------------|------|-------|------|-------|------|
| Bore  | Torsional Load Max. | Stroke         |      |       |      |       |      |
|   |                     | 0 to 1-1/2     | 2    | 2-1/2 | 3    | 3-1/2 | 4    |
| 3/4   | 0.3 in-lbs          | less than 0.22 | 0.51 | 0.98  | 1.67 | 2.62  | 3.88 |
| 1-1/16  | 1.0 in-lbs          | less than 0.15 | 0.33 | 0.64  | 1.09 | 1.71  | 2.53 |
| 1-1/2   | 5.0 in-lbs          | less than 0.08 | 0.18 | 0.36  | 0.61 | 0.95  | 1.41 |
| 2   | 10.0 in-lbs         | less than 0.03 | 0.07 | 0.13  | 0.22 | 0.34  | 0.50 |

| Freeplay Rotational Tolerance |          |             |            |        |
|-------------------------------|----------|-------------|------------|--------|
| Bore                          | 3/4" (2) | 1-1/16" (3) | 1-1/2" (4) | 2" (5) |
| Max. Rotation                 | ±1°      | ±3/4°       | ±1/2°      | ±1/2°  |

### Cylinder Sizing Guide

|                      |      |        |       |      |
|----------------------|------|--------|-------|------|
| Bore Diameter (inch) | 3/4  | 1-1/16 | 1-1/2 | 2    |
| Rod Diameter (inch)  | 0.19 | 0.25   | 0.38  | 0.50 |
| Rod Area (inch)      | 0.05 | 0.10   | 0.22  | 0.38 |
| Push Area (inch)     | 0.44 | 0.88   | 1.76  | 3.14 |
| Pull Area (inch)     | 0.39 | 0.78   | 1.54  | 2.76 |

## How to Order



### Mounting

Tapped mounting holes are standard in the basic model and need not be specified. For other mounting specify only one option code.

Leave Blank - Basic Model

- PM** - Pivot mount, pin 90° from port
- SM** - Pivot mount, pin in-line with port

### Options *Enter in alphabetical order*

- CE** - Counterbored rod end tool bar (page 12)
- E** - Magnet on piston for position sensing (See length adders pg. 13) 3/8" stroke minimum<sup>1</sup>
- K** - Rod end tool bar rotated 90°
- M, M1, M4** - Magnet on piston and adhesive mounted dovetail extrusion to hold 1/4" dovetail sensors. (see sensors page 15) 3/8" stroke minimum<sup>1</sup>
- Q** - Low temperature operation (-40°F to +200°F)
- T1, T4** - Additional adhesive mounted dovetail extrusions located in position 1 or 4
- V** - Viton seals for media compatibility (-15°F to +225°F)
- X** - **EXTRA** Rod extension  
Example: X0.5 = 1/2" **EXTRA** Rod Extension  
X1 = 1" **EXTRA** Rod Extension

<sup>1</sup>Not available with Viton seals or low temperature seals.

## How to Order

1. Specify **S**, Model, Action and Bore
2. Specify optional Mounting (if required), then Stroke
3. Specify the Options in alphabetical order

Ordering example #1: **SND3-PM0.375-V**

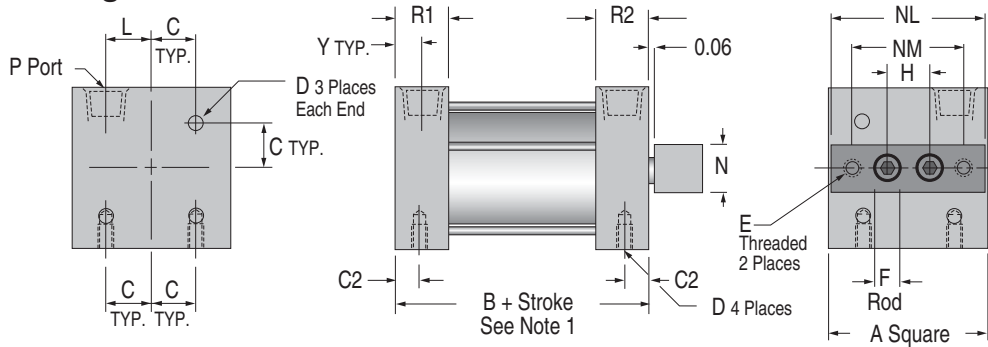
This model number specifies a Square® Pancake II nonrotating, double acting, cylinder with tool bar, 1-1/16" bore, pivot mounting, 3/8" stroke and Viton seals.

Ordering example #2: **SND5-2.000**

This model number specifies a Square® Pancake II nonrotating, double acting, cylinder with tool bar, 2" bore, standard tapped mounting holes, and 2" stroke.

## Basic Model SND

### Twin Rod, Nonrotating Double Acting

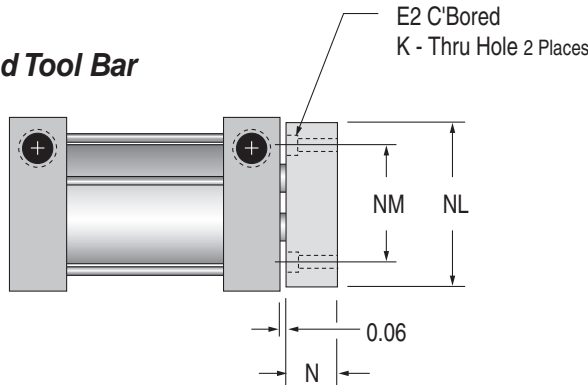


Note 1: Magnetic Position Sensing Length Adders see page 13.  
 A minimum stroke of 3/8" is required to sense end-of-stroke positions

**Standard Strokes – All Models: • 1/8 • 1/4 • 3/8 • 1/2 • 5/8 • 3/4 • 7/8 • 1 • 1-1/4 • 1-1/2 • 1-3/4 • 2 • 2-1/2 • 3 • 3-1/2 • 4**  
**Special strokes available. Contact Engineering or your local Fabco-Air distributor for information.**

## Model Options

### Option CE Counterbored Rod End Tool Bar



| Bore       | E2 C'Bore      | K    | For SHCS |
|------------|----------------|------|----------|
| 3/4 (2)    | 0.24 x 0.15 dp | 0.15 | #6       |
| 1-1/16 (3) | 0.29 x 0.18 dp | 0.18 | #8       |
| 1-1/2 (4)  | 0.40 x 0.27 dp | 0.26 | 1/4      |
| 2 (5)      | 0.49 x 0.33 dp | 0.33 | 5/16     |

| Bore       | Base  | Adder per 1/8 of Stroke |
|------------|-------|-------------------------|
| 3/4 (2)    | 3.39  | 0.1                     |
| 1-1/16 (3) | 7.59  | 0.5                     |
| 1-1/2 (4)  | 14.78 | 0.7                     |
| 2 (5)      | 22.65 | 0.9                     |

| Bore       | A    | B    | C    | C2   | D          | E Thread    | F    | H     |
|------------|------|------|------|------|------------|-------------|------|-------|
| 3/4 (2)    | 1.25 | 0.75 | 0.38 | 0.28 | #6-32 UNC  | #6-32 UNC   | 0.19 | 0.332 |
| 1-1/16 (3) | 1.50 | 1.25 | 0.50 | 0.38 | #8-32 UNC  | #8-32 UNC   | 0.25 | 0.422 |
| 1-1/2 (4)  | 2.00 | 1.25 | 0.69 | 0.31 | #10-24 UNC | 1/4-20 UNC  | 0.38 | 0.562 |
| 2 (5)      | 2.50 | 1.31 | 0.88 | 0.38 | 1/4-20 UNC | 5/16-18 UNC | 0.50 | 0.750 |

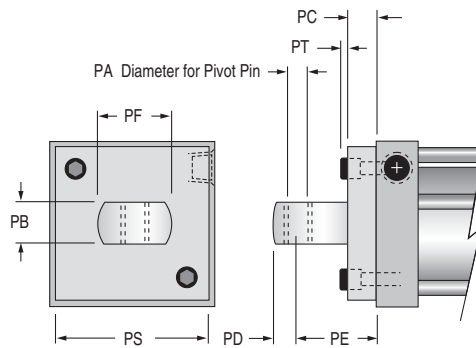
| Bore       | L    | N    | NL   | NM   | P          | R1   | R2   | Y    |
|------------|------|------|------|------|------------|------|------|------|
| 3/4 (2)    | 0.35 | 0.38 | 1.25 | 0.88 | #10-32 UNF | 0.42 | 0.42 | 0.14 |
| 1-1/16 (3) | 0.45 | 0.38 | 1.44 | 1.06 | 1/8 NPT    | 0.50 | 0.58 | 0.25 |
| 1-1/2 (4)  | 0.60 | 0.50 | 2.00 | 1.50 | 1/8 NPT    | 0.50 | 0.58 | 0.25 |
| 2 (5)      | 0.76 | 0.63 | 2.50 | 1.88 | 1/8 NPT    | 0.63 | 0.63 | 0.25 |

## Mounting Options

### PM Pivot Mount -

#### Pin 90° from Port

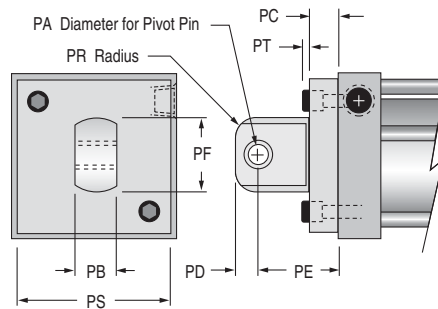
Complete with bronze pivot bushing.  
Also available as an accessory.  
See page 14.



### SM Pivot Mount -

#### Pin in line with Port

Complete with bronze pivot bushing.  
Also available as an accessory.  
See page 14.



**Dimensions (inches)**

| Bore       | PA   | PB   | PC   | PD   | PE   | PF   | PR   | PS   | PT   |
|------------|------|------|------|------|------|------|------|------|------|
| 3/4 (2)    | 0.19 | 0.38 | 0.19 | 0.25 | 0.75 | 0.75 | 0.19 | 1.13 | 0.02 |
| 1-1/16 (3) | 0.19 | 0.38 | 0.25 | 0.25 | 0.81 | 0.75 | 0.19 | 1.25 | 0.02 |
| 1-1/2 (4)  | 0.38 | 0.75 | 0.25 | 0.44 | 1.19 | 1.38 | 0.38 | 1.75 | 0.03 |
| 2 (5)      | 0.38 | 0.75 | 0.31 | 0.44 | 1.38 | 1.38 | 0.38 | 2.25 | 0.08 |

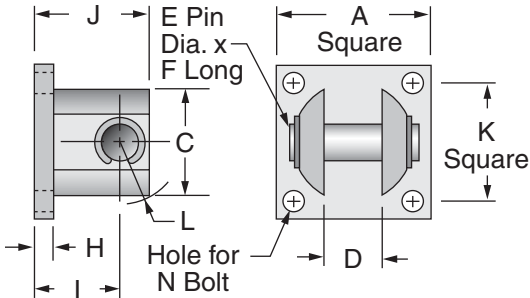
### Deviations from Standard Dimensions (Options E or M)

† A minimum stroke of 3/8" is required to sense end-of-stroke positions.

| Length Adder (inches) |                            |
|-----------------------|----------------------------|
| Bore                  | Magnetic Position Sensing† |
|                       | E or M                     |
| 3/4 (2)               | 0.75                       |
| 1-1/16 (3)            | 0.50                       |
| 1-1/2 (4)             | 0.63                       |
| 2 (5)                 | 0.63                       |

### Clevis Bracket

Anodized aluminum alloy  
 Chrome plated steel pin included

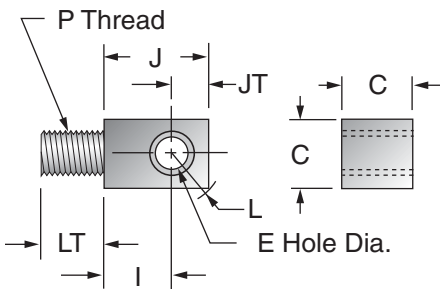


The bracket is intended for mounting with either a rod eye or pivot mount; it is not intended to mount directly with the rear cylinder head.

| Dimensions (inches) |            |      |      |      |       |      |      |      |      |      |      |     |
|---------------------|------------|------|------|------|-------|------|------|------|------|------|------|-----|
| Kit No.             | Bore       | A    | C    | D    | E     | F    | H    | I    | J    | K    | L    | N   |
| CB-3                | 3/4 (2)    | 1.00 | 0.71 | 0.39 | 0.187 | 0.93 | 0.16 | 0.56 | 0.78 | 0.75 | 0.42 | #6  |
|                     | 1-1/16 (3) |      |      |      |       |      |      |      |      |      |      |     |
| CB-6                | 1-1/2 (4)  | 1.75 | 1.37 | 0.75 | 0.375 | 1.63 | 0.22 | 0.94 | 1.34 | 1.38 | 0.80 | #10 |
|                     | 2 (5)      |      |      |      |       |      |      |      |      |      |      |     |
|                     | 2-1/2 (6)  |      |      |      |       |      |      |      |      |      |      |     |
| CB-8                | 3 (7)      | 2.50 | 2.10 | 1.00 | 0.625 | 2.42 | 0.25 | 1.25 | 1.81 | 2.00 | 1.19 | 1/4 |
|                     | 4 (8)      |      |      |      |       |      |      |      |      |      |      |     |

### Rod Eye

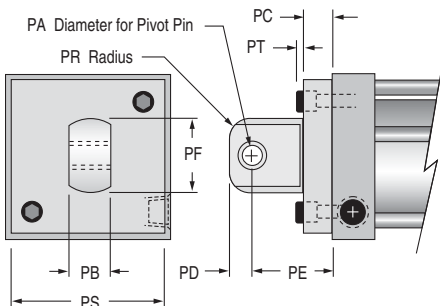
Steel with bronze pivot bushing and nut



| Dimensions (inches) |            |      |       |      |      |      |      |      |             |
|---------------------|------------|------|-------|------|------|------|------|------|-------------|
| Kit No.             | Bore       | C    | E     | I    | J    | JT   | L    | LT   | P           |
| RE-2                | 3/4 (2)    | 0.38 | 0.187 | 0.47 | 0.72 | 0.25 | 0.32 | 0.38 | #10-32 UNF  |
| RE-3                | 1-1/16 (3) | 0.38 | 0.187 | 0.47 | 0.72 | 0.25 | 0.32 | 0.63 | 5/16-24 UNF |
| RE-4                | 1-1/2 (4)  | 0.75 | 0.375 | 0.72 | 1.16 | 0.44 | 0.58 | 0.63 | 3/8-24 UNF  |
| RE-6                | 2 (5)      | 0.75 | 0.375 | 0.72 | 1.16 | 0.44 | 0.58 | 0.75 | 1/2-20 UNF  |
|                     | 2-1/2 (6)  |      |       |      |      |      |      |      |             |
| RE-7                | 3 (7)      | 1.00 | 0.625 | 1.00 | 1.63 | 0.63 | 0.80 | 0.88 | 5/8-18 UNF  |
| RE-8                | 4 (8)      | 1.00 | 0.625 | 1.00 | 1.63 | 0.63 | 0.80 | 0.88 | 3/4-16 UNF  |

### Pivot Mount Attachment with Mounting Screws

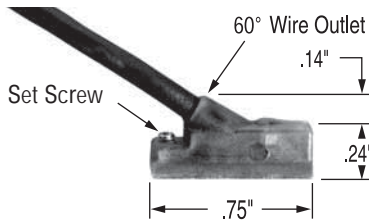
Anodized Aluminum Alloy



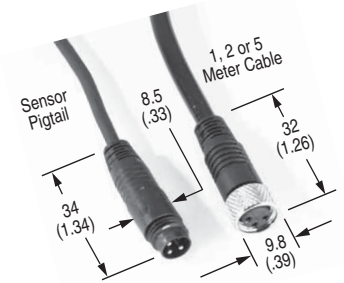
| Dimensions (inches) |            |      |      |      |      |      |      |      |      |      |
|---------------------|------------|------|------|------|------|------|------|------|------|------|
| Kit No.             | Bore       | PA   | PB   | PC   | PD   | PE   | PF   | PR   | PS   | PT   |
| PA-2                | 3/4 (2)    | 0.19 | 0.38 | 0.19 | 0.25 | 0.75 | 0.75 | 0.19 | 1.13 | 0.02 |
| PA-3                | 1-1/16 (3) | 0.19 | 0.38 | 0.25 | 0.25 | 0.81 | 0.75 | 0.19 | 1.25 | 0.02 |
| PA-4                | 1-1/2 (4)  | 0.38 | 0.75 | 0.25 | 0.44 | 1.19 | 1.38 | 0.38 | 1.75 | 0.03 |
| PA-5                | 2 (5)      | 0.38 | 0.75 | 0.31 | 0.44 | 1.38 | 1.38 | 0.38 | 2.25 | 0.08 |
| PA-6                | 2-1/2 (6)  | 0.38 | 0.75 | 0.38 | 0.44 | 1.31 | 1.38 | 0.38 | 3.00 | 0.05 |
| PA-7                | 3 (7)      | 0.63 | 1.00 | 0.38 | 0.56 | 1.69 | 1.88 | 0.38 | 3.50 | 0.05 |
| PA-8                | 4 (8)      | 0.63 | 1.00 | 0.44 | 0.56 | 1.75 | 1.88 | 0.38 | 4.50 | 0.12 |



## Sensor Specifications & Ordering Information



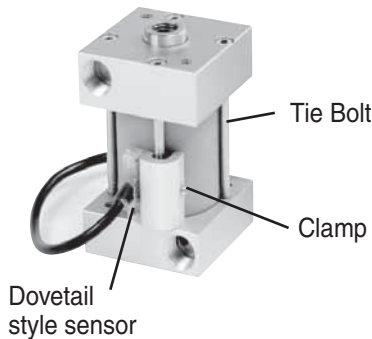
- Encased in a plastic housing, dovetail style electronic sensors are corrosion resistant. 60° wire outlet allows close mounting.
- Two methods of mounting are available:
  1. Tie bolt mounted clamps (Option -E)
  2. Adhesive mounted dovetail extrusions (Option -M)
- **Order sensors separately from the table below**



| Ordering Guide – Dovetail Style Magnetic Sensor with LED |                         |                            |            | Sensor Temperature Range<br>-20° to +80° C (-4° to +176° F)   | Female Cordsets for Quick Disconnect   |        |          |         |        |          |        |          |        |
|--|-------------------------|----------------------------|------------|---|--|--------|----------|---------|--------|----------|--------|----------|--------|
| Sensor Type  | Prewired 9 ft. Part No. | Quick Disconnect Part No.* | Wire Leads | Electrical Characteristics                                    |  |        |          |         |        |          |        |          |        |
| Electronic   | 949-000-031             | 949-000-331                | 3          | Sourcing PNP 6-24 VDC, 0.20 Amp Max current, 0.5 Voltage Drop | <table border="1"> <thead> <tr> <th>Length</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>1 Meter</td> <td>CFC-1M</td> </tr> <tr> <td>2 Meters</td> <td>CFC-2M</td> </tr> <tr> <td>5 Meters</td> <td>CFC-5M</td> </tr> </tbody> </table> | Length | Part No. | 1 Meter | CFC-1M | 2 Meters | CFC-2M | 5 Meters | CFC-5M |
| Length   | Part No.                |                            |            |   |  |        |          |         |        |          |        |          |        |
| 1 Meter  | CFC-1M                  |                            |            |   |  |        |          |         |        |          |        |          |        |
| 2 Meters   | CFC-2M                  |                            |            |   |  |        |          |         |        |          |        |          |        |
| 5 Meters   | CFC-5M                  |                            |            |   |  |        |          |         |        |          |        |          |        |
| Electronic   | 949-000-032             | 949-000-332                | 3          | Sinking NPN 6-24 VDC, 0.20 Amp Max current, 0.5 Voltage Drop  |  |        |          |         |        |          |        |          |        |

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

### Option -E Magnet on piston – use tie bolt mounted clamps



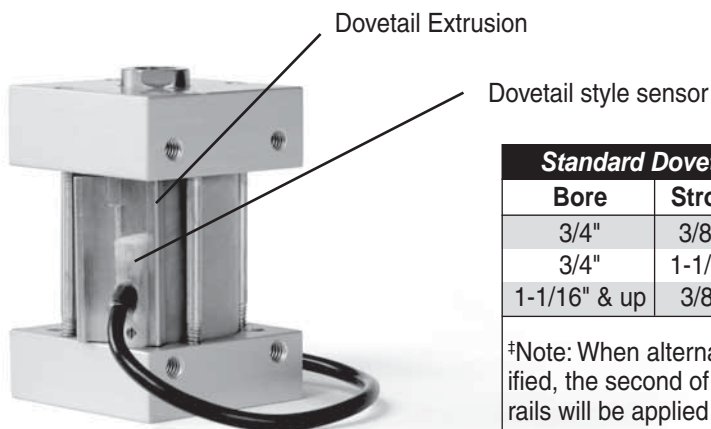
To apply dovetail style sensors first locate clamp in rough position on any of the tie bolts and lock it in place with the set screw.

Next, make fine adjustment by sliding the sensor within the clamp and lock in place with its set screw.

| Clamp Selection Guide |                       |             |             |
|-----------------------|-----------------------|-------------|-------------|
| Kit No.               | 900-F00-000           | 900-G00-000 | 900-H00-000 |
| To Fit Bore           | 3/4, 1-1/16, 1-1/2, 2 | 2-1/2, 3    | 4           |

Order clamps and sensors separately

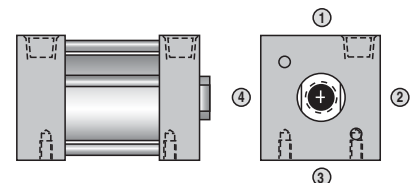
### Option -M Magnet on piston and adhesive mounted dovetail extrusions



| Standard Dovetail Rail Positions |                |                    |
|----------------------------------|----------------|--------------------|
| Bore                             | Stroke Range   | Position           |
| 3/4"                             | 3/8" to 1-1/4" | 2 & 4 <sup>‡</sup> |
| 3/4"                             | 1-1/2" & above | 2                  |
| 1-1/16" & up                     | 3/8" & above   | 2                  |

<sup>‡</sup>Note: When alternate positions are specified, the second of two required dovetail rails will be applied at position 2. (Contact factory for other combinations.)

Specify Option M for mounting rail(s) located in standard position(2).



Specify option M1 or M4 for mounting rail in alternate positions 1 or 4 respectively. Additional dovetail rails may be applied by specifying options T1 or T4.

Order sensors separately



# Square Pancake® II Cylinders

List Prices - Series SSD, SSR, SSX, SWD, STD

Prices effective January 11, 2010

| Basic Model                            | Base Price by Bore Size |            |           |         |           |          |          |
|--|-------------------------|------------|-----------|---------|-----------|----------|----------|
|  | 3/4 (2)                 | 1-1/16 (3) | 1-1/2 (4) | 2 (5)   | 2-1/2 (6) | 3 (7)    | 4 (8)    |
| SSD                                    | \$50.55                 | \$60.40    | \$75.35   | \$86.80 | \$120.65  | \$140.45 | \$255.45 |
| SSR (0 to 1" Stroke)                   | 53.20                   | 65.00      | 80.75     | 98.50   | 129.45    | 152.50   | 273.15   |
| SSR (1-1/8 to 4" Stroke)               | 59.00                   | 73.15      | 96.60     | 113.75  | 137.05    | 160.70   | 281.25   |
| SSX (0 to 1" Stroke)                   | 58.05                   | 72.00      | 89.80     | 101.70  | 141.15    | 168.70   | 296.55   |
| SSX (1-1/8 to 4" Stroke)               | 65.20                   | 79.70      | 98.40     | 113.85  | 148.80    | 176.75   | 304.80   |
| Add per 1/8" of Stroke (SSD, SSR, SSX) | 0.35                    | 0.45       | 0.60      | 0.80    | 0.90      | 1.00     | 1.25     |
| SWD                                    | 73.00                   | 83.30      | 101.35    | 120.45  | 169.70    | 197.60   | 326.65   |
| Add per 1/8" of Stroke                 | 0.35                    | 0.45       | 0.80      | 1.00    | 1.00      | 1.10     | 1.45     |
| STD                                    | 73.35                   | 89.50      | 109.10    | 129.30  | 178.05    | 207.65   | 338.35   |
| Add per 1/8" of Stroke                 | 0.35                    | 0.45       | 0.80      | 1.00    | 1.00      | 1.10     | 1.45     |

| Mounting Options     | Adders by Bore Size |            |           |       |           |       |       |
|----------------------|---------------------|------------|-----------|-------|-----------|-------|-------|
|                      | 3/4 (2)             | 1-1/16 (3) | 1-1/2 (4) | 2 (5) | 2-1/2 (6) | 3 (7) | 4 (8) |
| PM, SM (Pivot Mount) | 15.40               | 16.80      | 21.30     | 23.85 | 28.15     | 33.90 | 46.20 |

| Options<br>No charge for Options<br>TCF, TN  | Adders by Bore Size |            |           |       |           |       |       |
|--|---------------------|------------|-----------|-------|-----------|-------|-------|
|  | 3/4 (2)             | 1-1/16 (3) | 1-1/2 (4) | 2 (5) | 2-1/2 (6) | 3 (7) | 4 (8) |
| B (both ends)                                | 9.85                | 20.95      | 20.95     | 27.70 | 28.05     | 28.05 | 46.10 |
| BF (front only)                              | 6.20                | 14.75      | 14.75     | 21.50 | 21.50     | 21.50 | 34.45 |
| BR (rear only)                               | 3.75                | 6.20       | 6.20      | 6.20  | 6.55      | 6.55  | 11.65 |
| E (Magnetic Piston Sensing)                  | 4.50                | 4.50       | 6.65      | 11.15 | 14.80     | 19.40 | 22.00 |
| J (with Standard Seals)                      | 0.25                | 0.30       | 0.30      | 0.35  | 0.35      | 0.35  | 0.40  |
| J (with Viton Seals)                         | 0.55                | 0.80       | 0.80      | 0.95  | 0.95      | 1.10  | 3.00  |
| L (Low Friction Seals)                       | 3.40                | 4.15       | 4.70      | 5.55  | 6.40      | 7.60  | 8.75  |
| M, M1, M4 (Mag. Piston Sensing)              | 6.25                | 6.25       | 9.15      | 15.40 | 21.65     | 26.15 | 28.90 |
| Q (Low Temperature Seals)                    |                     |            |           |       |           |       |       |
| SSR - Spring Retract                         | 2.70                | 3.35       | 4.25      | 5.25  | 6.60      | 8.20  | 10.20 |
| SSX - Spring Extend                          | 3.00                | 3.75       | 4.65      | 5.80  | 7.15      | 9.00  | 11.30 |
| SSD - Double Acting                          | 3.05                | 3.85       | 4.80      | 6.00  | 7.50      | 9.40  | 11.70 |
| SWD, STD - Double Rod                        | 3.85                | 4.80       | 6.00      | 7.50  | 9.40      | 11.70 | 14.65 |
| Q (Low Temp. Seals with L Option)            |                     |            |           |       |           |       |       |
| SSR - Spring Retract                         | 5.80                | 7.10       | 8.95      | 11.25 | 14.00     | 17.50 | 21.90 |
| SSX - Spring Extend                          | 6.40                | 7.95       | 9.90      | 12.35 | 15.45     | 19.30 | 24.15 |
| SSD - Double Acting                          | 6.60                | 8.20       | 10.25     | 12.85 | 16.10     | 20.05 | 25.15 |
| SWD, STD - Double Rod                        | 8.20                | 10.25      | 12.85     | 16.10 | 20.05     | 25.15 | 31.45 |
| TCM, TFM (Male Rod Thread each end)          | 4.15                | 4.65       | 5.05      | 7.00  | 6.65      | 7.80  | 9.30  |
| T1, T4 (Sensor Mounting Rail per rail)       | 3.60                | 3.60       | 3.60      | 3.60  | 3.60      | 3.60  | 3.60  |
| V (with Standard Seals)                      |                     |            |           |       |           |       |       |
| SSR - Spring Retract                         | 2.10                | 3.55       | 5.85      | 7.80  | 10.50     | 14.60 | 19.90 |
| SSX - Spring Extend                          | 2.95                | 4.70       | 7.15      | 9.25  | 11.75     | 16.25 | 21.65 |
| SSD - Double Acting                          | 4.15                | 6.05       | 9.70      | 12.75 | 16.30     | 23.95 | 30.00 |
| SWD, STD - Double Rod                        | 4.90                | 7.20       | 11.00     | 14.20 | 17.60     | 25.80 | 32.00 |
| V (with Low Friction Seals)                  |                     |            |           |       |           |       |       |
| SSR - Spring Retract                         | 5.80                | 9.70       | 12.35     | 19.45 | 23.65     | 27.05 | 35.25 |
| SSX - Spring Extend                          | 6.55                | 10.80      | 13.75     | 20.90 | 25.05     | 29.50 | 37.00 |
| SSD - Double Acting                          | 11.50               | 18.30      | 22.80     | 36.10 | 43.05     | 50.50 | 60.70 |
| SWD, STD - Double Rod                        | 12.20               | 19.40      | 24.15     | 37.65 | 44.35     | 52.15 | 62.55 |
| W (Rod Wiper, single rod)                    | 7.15                | 8.75       | 9.20      | 11.00 | 11.00     | 12.65 | 13.40 |
| W (Rod Wiper, double rod)                    | 14.25               | 17.55      | 18.40     | 21.70 | 21.85     | 25.25 | 26.65 |
| X (each 1/2" or fraction thereof - each end) | 0.75                | 0.85       | 1.00      | 1.25  | 1.20      | 1.30  | 1.65  |

## List Prices - Nonrotating Series SND

| Basic Model              | Base Price by Bore Size |            |           |          | Mounting Options     | Adders by Bore Size |            |           |       |
|--------------------------|-------------------------|------------|-----------|----------|----------------------|---------------------|------------|-----------|-------|
|                          | 3/4 (2)                 | 1-1/16 (3) | 1-1/2 (4) | 2 (5)    |                      | 3/4 (2)             | 1-1/16 (3) | 1-1/2 (4) | 2 (5) |
| SND                      | \$74.60                 | \$95.75    | \$113.85  | \$131.35 | PM, SM (Pivot Mount) | 15.40               | 16.80      | 21.30     | 23.85 |
| Adder per 1/8" of stroke | 0.35                    | 0.45       | 0.80      | 0.90     |                      |                     |            |           |       |

| Options<br>No charge for Options CE, K | Adders by Bore Size |            |           |         |
|--|---------------------|------------|-----------|---------|
|  | 3/4 (2)             | 1-1/16 (3) | 1-1/2 (4) | 2 (5)   |
| E (Magnetic Piston Sensing)            | \$4.50              | \$4.50     | \$6.65    | \$11.15 |
| M, M1, M4 (Mag. Piston Sensing)        | 6.25                | 6.25       | 9.25      | 15.40   |
| Q (Low temperature seals)              | 5.35                | 6.70       | 8.35      | 10.45   |
| T1, T4 (Sensor mounting rail per rail) | 3.60                | 3.60       | 3.60      | 3.60    |
| V (Viton Seals)                        | 4.90                | 7.20       | 11.00     | 14.20   |
| X (each 1/2" or fraction thereof)      | 0.75                | 0.85       | 1.00      | 1.25    |

## Sensor Prices

| Electronic Sensor Type | Prewired Part No. | Price   | Quick Disconnect Part No. | Price   |
|------------------------|-------------------|---------|---------------------------|---------|
| Sourcing               | 949-000-031       | \$23.80 | 949-000-331               | \$31.30 |
| Sinking                | 949-000-032       | 23.80   | 949-000-332               | 31.30   |

| Female Cord Set | Part No. | Price   |
|-----------------|----------|---------|
| 1 Meter         | CFC-1M   | \$14.35 |
| 2 Meters        | CFC-2M   | 16.05   |
| 5 Meters        | CFC-5M   | 20.30   |

| Sensor Mounting Clamp |                       |             |             |
|-----------------------|-----------------------|-------------|-------------|
| Bore                  | 3/4, 1-1/16, 1-1/2, 2 | 2-1/2, 3    | 4           |
| Kit Number            | 900-F00-000           | 900-G00-000 | 900-H00-000 |
| Price                 | \$5.30                | \$5.30      | \$5.30      |

## Accessory Prices

| Clevis Bracket |            |         |
|----------------|------------|---------|
| Kit No.        | Bore       | Price   |
| CB-3           | 3/4 (2)    | \$16.20 |
|                | 1-1/16 (3) |         |
| CB-6           | 1-1/2 (4)  | 22.90   |
|                | 2 (5)      |         |
|                | 2-1/2 (6)  |         |
| CB-8           | 3 (7)      | 28.95   |
|                | 4 (8)      |         |

| Rod Eye |            |         |
|---------|------------|---------|
| Kit No. | Bore       | Price   |
| RE-2    | 3/4 (2)    | \$12.00 |
| RE-3    | 1-1/16 (3) | 12.00   |
| RE-4    | 1-1/2 (4)  | 12.55   |
| RE-6    | 2 (5)      | 12.55   |
|         | 2-1/2 (6)  |         |
| RE-7    | 3 (7)      | 14.05   |
| RE-8    | 4 (8)      | 14.05   |

| Pivot Mount Attachment Kits |            |         |
|-----------------------------|------------|---------|
| Kit No.                     | Bore       | Price   |
| PA-2                        | 3/4 (2)    | \$15.50 |
| PA-3                        | 1-1/16 (3) | 17.10   |
| PA-4                        | 1-1/2 (4)  | 22.20   |
| PA-5                        | 2 (5)      | 26.30   |
| PA-6                        | 2-1/2 (6)  | 38.00   |
| PA-7                        | 3 (7)      | 56.20   |
| PA-8                        | 4 (8)      | 70.10   |

## Seal Kits – Series SSD, SSR, SSX, SWD, STD

| Options                             | Kit Numbers and Prices by Bore Size |           |           |           |           |           |           |
|-------------------------------------|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                     | 3/4"                                | 1-1/16"   | 1-1/2"    | 2"        | 2-1/2"    | 3"        | 4"        |
| Standard                            | SS-2-SK                             | SS-3-SK   | SS-4-SK   | SS-5-SK   | SS-6-SK   | SS-7-SK   | SS-8-SK   |
|                                     | \$6.75                              | \$6.40    | \$7.00    | \$8.05    | \$8.50    | \$10.10   | \$12.25   |
| Viton (V)                           | SS-2-SKV                            | SS-3-SKV  | SS-4-SKV  | SS-5-SKV  | SS-6-SKV  | SS-7-SKV  | SS-8-SKV  |
|                                     | \$11.65                             | \$13.65   | \$18.05   | \$22.20   | \$26.10   | \$35.90   | \$44.25   |
| Low Temperature (Q)                 | SS-2-SKQ                            | SS-3-SKQ  | SS-4-SKQ  | SS-5-SKQ  | SS-6-SKQ  | SS-7-SKQ  | SS-8-SKQ  |
|                                     | \$10.60                             | \$11.25   | \$13.00   | \$15.50   | \$17.90   | \$21.85   | \$26.90   |
| Low Friction (L)                    | SS-2-SKL                            | SS-3-SKL  | SS-4-SKL  | SS-5-SKL  | SS-6-SKL  | SS-7-SKL  | SS-8-SKL  |
|                                     | \$10.15                             | \$10.60   | \$11.70   | \$13.60   | \$14.95   | \$17.70   | \$21.05   |
| Low Friction-Viton (L, V)           | SS-2-SKLV                           | SS-3-SKLV | SS-4-SKLV | SS-5-SKLV | SS-6-SKLV | SS-7-SKLV | SS-8-SKLV |
|                                     | \$18.95                             | \$26.20   | \$31.15   | \$45.70   | \$52.85   | \$62.25   | \$74.80   |
| Low Friction-Low Temperature (L, Q) | SS-2-SKLQ                           | SS-3-SKLQ | SS-4-SKLQ | SS-5-SKLQ | SS-6-SKLQ | SS-7-SKLQ | SS-8-SKLQ |
|                                     | \$14.95                             | \$16.70   | \$19.85   | \$24.15   | \$28.55   | \$35.25   | \$43.70   |

## Seal Kits – Nonrotating Series SND

| Options             | Kit Numbers and Prices by Bore Size |          |          |          |
|---------------------|-------------------------------------|----------|----------|----------|
|                     | 3/4"                                | 1-1/16"  | 1-1/2"   | 2"       |
| Standard            | SN-2-SK                             | SN-3-SK  | SN-4-SK  | SN-5-SK  |
|                     | \$5.50                              | \$5.90   | \$6.35   | \$7.30   |
| Viton (V)           | SN-2-SKV                            | SN-3-SKV | SN-4-SKV | SN-5-SKV |
|                     | \$10.45                             | \$13.10  | \$17.40  | \$21.45  |
| Low Temperature (Q) | SN-2-SKQ                            | SN-3-SKQ | SN-4-SKQ | SN-5-SKQ |
|                     | \$10.85                             | \$12.55  | \$14.70  | \$17.70  |

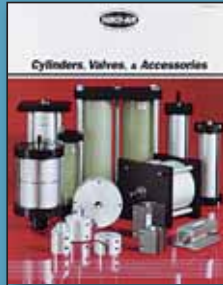




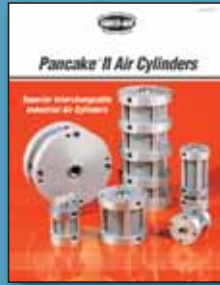


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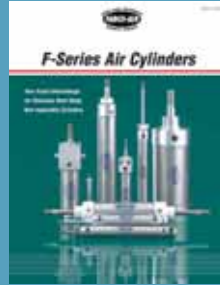
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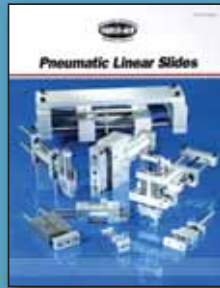
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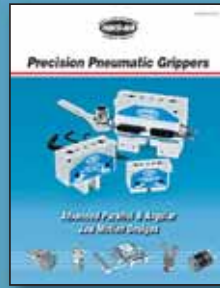
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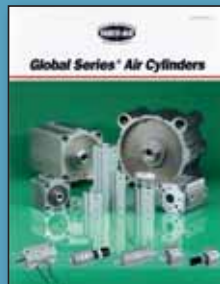
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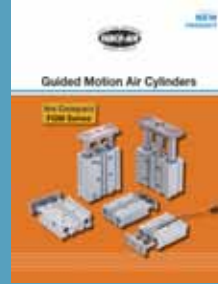
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