## Non-Rotating Original Line Air Cylinder

Bimba’s new Non-Rotating Original Line stainless steel body air cylinder design consists of a unique square piston rod with rounded corners. The square rod prevents rotation better than other rod configurations, and the rounded corners provide longer seal life than conventional hexagon rods. The unusual geometry of the square rod also provides superior rotation control. All bore sizes have a rotation control of less than or equal to 2½ degrees. The special high strength aluminum alloy rod guide provides high load carrying capability and abrasion resistance. The urethane-based rod seal provides excellent seal life and leak-free service. The Non-Rotating Original Line cylinder is dimensionally interchangeable with the standard Original Line stainless steel cylinder.

### 9/16" Bore Non-Rotating Air Cylinders

- **New!** Stainless Steel Piston Rod Standard.
- Unique Square Piston Rod with Rounded Corners.
- High Strength Aluminum Alloy Rod Guide.
- Urethane-based Rod Seal.
- Buna N “U” Cup Piston Seal.
- Pressure Rating - 250 PSI Maximum (Air only)
- Available in Double Acting and Reverse Acting Models.
- Standard Buna N Seals Temperature Range of -20°F (-25°C) to 200°F (95°C)

### Options

<table>
<thead>
<tr>
<th>Options</th>
<th>Description/Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NO CHARGE:</strong></td>
<td></td>
</tr>
<tr>
<td>- MAGNALUBE® G (G)</td>
<td></td>
</tr>
<tr>
<td>- SIDE PORTED REAR HEAD (Q)</td>
<td></td>
</tr>
<tr>
<td>- PORTS ROTATED (K)</td>
<td></td>
</tr>
<tr>
<td><strong>REVERSE ACTING BUMPERS (B)</strong></td>
<td></td>
</tr>
<tr>
<td>- $2.60 additional</td>
<td>Add $0.62 to overall length</td>
</tr>
<tr>
<td>- Add .125 to overall length</td>
<td></td>
</tr>
<tr>
<td><strong>DOUBLE ACTING BUMPERS (B)</strong></td>
<td></td>
</tr>
<tr>
<td>- $3.65 additional</td>
<td>Add .125 to overall length</td>
</tr>
<tr>
<td>- Add .125 to overall length</td>
<td></td>
</tr>
<tr>
<td><strong>MOLYCOATED BODY (F)</strong></td>
<td></td>
</tr>
<tr>
<td>- $2.30 additional</td>
<td>Add $2.30 per inch of stroke</td>
</tr>
</tbody>
</table>

### Extra Extension (EE)

- Add $0.75 per inch of extension

### Magnet (prefix M) - Add $8.40

- Reverse acting add .125” to overall length
- Must specify track(s) for use with miniature position sensing (T2, T3, T4) – add $2.50 per track.

### High Temperature Seals (V)

- Temperature Range: 0° to 400°F (-18° to 205°C)
- Double acting, add $3.50
- Reverse acting, add $6.60

### Model/Price

<table>
<thead>
<tr>
<th>NR-02 □-D</th>
<th>Double Acting – Air Return-Front Nose Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard Stroke Lengths: ¼&quot;, ½&quot;, 3&quot;, 4&quot;</td>
</tr>
<tr>
<td></td>
<td>Maximum Stroke 10&quot;</td>
</tr>
<tr>
<td></td>
<td>Optional Accessory: D-770 Mounting Bracket</td>
</tr>
<tr>
<td></td>
<td>Base Weight: .09</td>
</tr>
<tr>
<td></td>
<td>Adder Per Inch of Stroke: .02</td>
</tr>
</tbody>
</table>

- Add $1.50 per inch of stroke

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® Magnalupe is a registered trademark of the Carleton-Stuart Corporation.

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Enter Stroke Length as 3rd Digit

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## 9/16" Bore Non-Rotating Air Cylinders (continued)

<table>
<thead>
<tr>
<th>MODEL/PRICE</th>
<th>DESCRIPTION/WEIGHT (lbs.)</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NR-02□-DXP</strong></td>
<td><strong>Double Acting</strong> – Double End or Rear Pivot Mounting – Air Return Standard Stroke Lengths: (\frac{1}{8}), (1), (1\frac{1}{8}), (2), (2\frac{1}{8}), (3), (4)&quot; Maximum Stroke 10&quot; Optional Accessories: D-770 Mounting Nut D-850 Rod Clevis D-12321-A Pivot Bracket Base Weight: .09 Adder Per Inch of Stroke: .02</td>
<td>![Diagram]</td>
</tr>
<tr>
<td>$27.80</td>
<td>BASE PRICE Add $1.50 per inch of stroke</td>
<td></td>
</tr>
<tr>
<td><strong>NR-02□-R</strong></td>
<td><strong>Reverse Single Acting</strong> – Pull Type – Rod Normally Extended – Spring Return – Front Nose Mounting Standard Stroke Lengths: (\frac{1}{8}), (1), (1\frac{1}{8}), (2), (2\frac{1}{8}), (3)&quot; Maximum Stroke 4&quot; Optional Accessory: D-770 Mounting Bracket Base Weight: .08 Adder Per Inch of Stroke: .04</td>
<td>![Diagram]</td>
</tr>
<tr>
<td>$24.05</td>
<td>BASE PRICE Add $2.05 per inch of stroke</td>
<td></td>
</tr>
<tr>
<td><strong>NR-02□-RP</strong></td>
<td><strong>Reverse Single Acting</strong> – Pivot and Pull Type – Rod Normally Extended – Spring Return – Rear Pivot Mounting Standard Stroke Lengths: (\frac{1}{8}), (1), (1\frac{1}{8}), (2), (2\frac{1}{8}), (3)&quot; Maximum Stroke 4&quot; Optional Accessories: D-850 Rod Clevis D-12321-A Pivot Bracket Base Weight: .08 Adder Per Inch of Stroke: .04</td>
<td>![Diagram]</td>
</tr>
<tr>
<td>$30.70</td>
<td>BASE PRICE Add $2.05 per inch of stroke</td>
<td></td>
</tr>
</tbody>
</table>

All prices are F.O.B. Monee, Illinois and are subject to change without notice.
3/4" Bore Non-Rotating Air Cylinders

- New! Stainless Steel Piston Rod Standard.
- Unique Square Piston Rod with Rounded Corners.
- High Strength Aluminum Alloy Rod Guide.
- Urethane-based Rod Seal.
- Buna N "U" Cup Piston Seal.
- Pressure Rating – 250 PSI Maximum (Air only)
- Available in Double Acting and Reverse Acting Models.
- Standard Buna N Seals Temperature Range of -20°F (-25°C) to 200°F (95°C)

**OPTIONS**

**NO CHARGE:**
- MAGNALUBE® G (G)
- PORTS ROTATED (K)
- SIDE PORTED REAR HEAD (Q)
- PIVOT BUSHING (Y)

**REVERSE ACTING BUMPERS (B)**
- $2.60 additional
- Add .062 to overall length

**DOUBLE ACTING BUMPERS (B)**
- $3.65 additional
- Add .125 to overall length

**MOLYCOATED BODY (F)**
- Add $2.30 per inch of stroke

**EXTRA EXTENSION (EE)**
- Add $0.80 per inch of extension

**MAGNET (prefix M) - Add $8.40**
- Reverse acting add .125" to overall length
- Must specify track(s) for use with miniature position sensing (T2, T3, T4) – add $2.50 per track. See page 140 for details.

**HIGH TEMPERATURE SEALS (V)**
- Temperature Range : 0° to 400°F (-18° to 205°C)
- Reverse acting, add $6.60
- Double acting, add $9.50

**MODEL/PRICE**

<table>
<thead>
<tr>
<th>Model/Price</th>
<th>Description/Weight (lbs.)</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>$22.05</td>
<td>Base Price: .21</td>
<td>Adder Per Inch of Stroke: .03</td>
</tr>
<tr>
<td>$28.60</td>
<td>Base Price: .29</td>
<td>Adder Per Inch of Stroke: .03</td>
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</tbody>
</table>

Enter Stroke Length as 3rd Digit

All prices are F.O.B. Monee, Illinois and are subject to change without notice.
## 3/4" Bore Non-Rotating Air Cylinders (continued)

<table>
<thead>
<tr>
<th>MODEL/PRICE</th>
<th>DESCRIPTION/WEIGHT (lbs.)</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BFTNR-04□-D</strong></td>
<td>Double Acting – Front Block Trunnion Mounting – Air Return Standard Stroke Lengths: 1/4&quot;, 1&quot;, 1 1/4&quot;, 2&quot;, 2 1/2&quot;, 3&quot;, 4&quot; Maximum Stroke 12&quot; Optional Accessories: TRB-2 Trunnion Brackets D-166-3 Rod Clevis Base Weight: .29 Adder Per Inch of Stroke: .03</td>
<td>$47.95 BASE PRICE Add $1.55 per inch of stroke</td>
</tr>
</tbody>
</table>
**OPTIONS**

**NO CHARGE:**
- MAGNALUBE® G (G)
- PORTS ROTATED (K)
- SIDE PORTED REAR HEAD (Q)
- PIVOT BUSHING (Y)

**REVERSE ACTING BUMPERS (B)**
- $2.60 additional
- Add .062 to overall length

**DOUBLE ACTING BUMPERS (B)**
- $3.65 additional
- Add .125 to overall length

**MOLYCOATED BODY (F)**
- Add $2.30 per inch of stroke

**EXTRA EXTENSION (EE)**
- Add $0.80 per inch of extension

**MAGNET (prefix M)** - Add $10.45
- Reverse acting add .125" to overall length
- Must specify track(s) for use with miniature position sensing (T2, T3, T4) – add $2.50 per track. See page 140 for details.

**HIGH TEMPERATURE SEALS (V)**
- Temperature Range: 0° to 400°F (-18° to 205°C)
- Reverse acting, add $7.40
- Double acting, add $11.40

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**MODEL/PRICE**

**DESCRIPTION/WEIGHT (lbs.)**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>MODEL/PRICE</th>
<th>DESCRIPTION/WEIGHT (lbs.)</th>
<th>DIMENSIONS</th>
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</thead>
</table>
## 1-1/16" Bore Non-Rotating Air Cylinders (continued)

<table>
<thead>
<tr>
<th>MODEL/PRICE</th>
<th>DESCRIPTION/WEIGHT (lbs.)</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NR-09□-RP</strong></td>
<td><strong>Reverse Single Acting</strong> – Pivot or Pull Type – Rod Normally Extended Spring Return – Rear Pivot Mounting Standard Stroke Lengths: (\frac{1}{8}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}, 1)&quot; Maximum Stroke 6&quot; Optional Accessories: D-166-1 Piston Rod Clevis D-167 Mounting Bracket Base Weight: .22 Adder Per Inch of Stroke: .16</td>
<td><img src="image1.png" alt="" /></td>
</tr>
<tr>
<td><strong>$32.25 BASE PRICE</strong></td>
<td>Add $2.55 per inch of stroke</td>
<td><img src="image2.png" alt="" /></td>
</tr>
<tr>
<td><strong>BFNR-09□-D</strong></td>
<td><strong>Double Acting</strong> – Front Block Mounting – Air Return Standard Stroke Lengths: (\frac{1}{8}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{2}{3}, 3, 4, 5, 6)&quot; Maximum Stroke 12&quot; Base Weight: .49 Adder Per Inch of Stroke: .05</td>
<td><img src="image3.png" alt="" /></td>
</tr>
<tr>
<td><strong>$40.50 BASE PRICE</strong></td>
<td>Add $1.55 per inch of stroke</td>
<td><img src="image4.png" alt="" /></td>
</tr>
<tr>
<td><strong>BFNR-09□-R</strong></td>
<td><strong>Reverse Single Acting</strong> – Front Block Mounting – Rod Normally Extended – Reverse Single Acting – Spring Return Standard Stroke Lengths: (\frac{1}{8}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{2}{3}, 3, 4)&quot; Maximum Stroke 6&quot; Base Weight: .36 Adder Per Inch of Stroke: .16</td>
<td><img src="image5.png" alt="" /></td>
</tr>
<tr>
<td><strong>$44.35 BASE PRICE</strong></td>
<td>Add $2.55 per inch of stroke</td>
<td><img src="image6.png" alt="" /></td>
</tr>
<tr>
<td><strong>BFTNR-09□-D</strong></td>
<td><strong>Double Acting</strong> – Front Block Trunnion Mounting – Air Return Standard Stroke Lengths: (\frac{1}{8}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{2}{3}, 3, 4)&quot; Maximum Stroke 12&quot; Optional Accessories: TRB-2 Trunnion Brackets D-166-1 Rod Clevis Base Weight: .49 Adder Per Inch of Stroke: .05</td>
<td><img src="image7.png" alt="" /></td>
</tr>
<tr>
<td><strong>$49.30 BASE PRICE</strong></td>
<td>Add $1.55 per inch of stroke</td>
<td><img src="image8.png" alt="" /></td>
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</table>
# 1-1/2" Bore Non-Rotating Air Cylinders

- New! Stainless Steel Piston Rod Standard.
- Unique Square Piston Rod with Rounded Corners.
- High Strength Aluminum Alloy Rod Guide.
- Urethane-based Rod Seal.
- Buna N “U” Cup Piston Seal.
- Pressure Rating – 250 PSI Maximum (Air only)
- Available in Double Acting and Reverse Acting Models.
- Standard Buna N Seals Temperature Range of -20°F (-25°C) to 200°F (95°C)

## Options

**NO CHARGE:**
- MAGNALUBE® G (G)
- PORTS ROTATED (K)
- SIDE PORTED REAR HEAD (Q)
- PIVOT BUSHING (Y)

**Reverse Acting Bumpers (B)**
- $2.80 additional
- Add .062 to overall length

**Double Acting Bumpers (B)**
- $4.40 additional
- Add .125 to overall length

**Molycoated Body (F)**
- Add $2.30 per inch of stroke

**Extra Extension (EE)**
- Add $1.20 per inch of extension

**Magnet (prefix M)** – Add $12.55
- Reverse acting add .125” to overall length
- Must specify track(s) for use with miniature position sensing (T2, T3, T4) – add $2.50 per track.
  - See page 140 for details.

**High Temperature Seals (V)**
- Temperature Range: 0° to 400°F (-18° to 205°C)
  - Reverse acting, add $8.65
  - Double acting, add $12.55

### Model/Price

<table>
<thead>
<tr>
<th>MODEL/PRICE</th>
<th>DESCRIPTION/WEIGHT (lbs.)</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NR-17-D</strong></td>
<td><strong>$45.45 BASE PRICE</strong> Add $2.35 per inch of stroke</td>
<td><img src="image1.png" alt="Diagram" /></td>
</tr>
<tr>
<td><strong>NR-17-DXP</strong></td>
<td><strong>$55.60 BASE PRICE</strong> Add $2.35 per inch of stroke</td>
<td><img src="image2.png" alt="Diagram" /></td>
</tr>
</tbody>
</table>

- **Double Acting – Air Return – Front Nose Mounting – Standard Stroke Lengths:**
  - 1/4", 1", 1 1/2", 2", 2 1/2", 3", 4", 5", 6" Maximum Stroke 12”
  - Optional Accessory:
    - D-241 Mounting Bracket
    - Base Weight: .69
    - Adder Per Inch of Stroke: .08

- **Double Acting – Double End or Rear Pivot Mounting – Air Return Standard Stroke Lengths:**
  - Maximum Stroke 24”
  - Optional Accessories:
    - D-241 Mounting Bracket
    - D-231-1 Rod Clevis
    - D-229 Pivot Bracket
    - Base Weight: .82
    - Adder Per Inch of Stroke: .08

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## 1-1/2" Bore Non-Rotating Air Cylinders (continued)

<table>
<thead>
<tr>
<th>MODEL/PRICE</th>
<th>DESCRIPTION/WEIGHT (lbs.)</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NR-17□-R</td>
<td><strong>Reverse Single Acting</strong> – Pull Type – Rod Normally Extended Spring Return – Spring force 8.5 lbs. relaxed, 17 lbs. compressed - Front Nose Mounting Standard Stroke Lengths: (1/e, 1.25, 1.5, 2, 2.5, 3, 4)&quot; Maximum Stroke 6&quot; Optional Accessory: D-241 Mounting Bracket Base Weight: .44 Adder Per Inch of Stroke: .22</td>
<td></td>
</tr>
<tr>
<td>$44.70 BASE PRICE</td>
<td>Add $3.65 per inch of stroke</td>
<td></td>
</tr>
<tr>
<td>$50.95 BASE PRICE</td>
<td>Add $3.65 per inch of stroke</td>
<td></td>
</tr>
<tr>
<td>BFN-17□-D</td>
<td><strong>Double Acting</strong> – Front Block Mounting – Air Return Standard Stroke Lengths: (1/e, 1, 1.25, 2, 2.5, 3, 4)&quot; Maximum Stroke 12&quot; Base Weight: .99 Adder Per Inch of Stroke: .08</td>
<td></td>
</tr>
<tr>
<td>$64.10 BASE PRICE</td>
<td>Add $2.35 per inch of stroke</td>
<td></td>
</tr>
<tr>
<td>BFN-17□-R</td>
<td><strong>Pull Type</strong> – Front Block Mounting – Rod Normally Extended – Reverse Single Acting – Spring Return Standard Stroke Lengths: (1/e, 1, 1.25, 2, 2.5, 3, 4)&quot; Maximum Stroke 6&quot; Base Weight: .96 Adder Per Inch of Stroke: .22</td>
<td></td>
</tr>
<tr>
<td>$66.55 BASE PRICE</td>
<td>Add $3.65 per inch of stroke</td>
<td></td>
</tr>
<tr>
<td>BFTN-17□-D</td>
<td><strong>Double Acting</strong> – Front Block Trunnion Mounting – Spring Return Standard Stroke Lengths: (1/e, 1, 1.25, 2, 2.5, 3, 4)&quot; Maximum Stroke 12&quot; Optional Accessories: TRB-2 Trunnion Brackets D-231-1 Rod Clevis Base Weight: 1.06 Adder Per Inch of Stroke: .08</td>
<td></td>
</tr>
<tr>
<td>$73.80 BASE PRICE</td>
<td>Add $2.35 per inch of stroke</td>
<td></td>
</tr>
</tbody>
</table>
2" Bore Non-Rotating Air Cylinders

- **New!** Stainless Steel Piston Rod Standard.
- Unique Square Piston Rod with Rounded Corners.
- High Strength Aluminum Alloy Rod Guide.
- Urethane-based Rod Seal.
- Buna N “U” Cup Piston Seal.
- Pressure Rating – 250 PSI Maximum (Air only)
- Available in Double Acting and Reverse Acting models.
- Standard Buna N Seals Temperature Range of -20°F (-25°C) to 200°F (95°C)

Enter Stroke Length as 3rd Digit

### OPTIONS

**NO CHARGE:**
- **MAGNALUBE® G (G)**
- PORTS ROTATED (K)
- SIDE PORTED REAR HEAD (O)

**REVERSE ACTING BUMPERS (B)**
- $3.35 additional
- Add .062 to overall length

**DOUBLE ACTING BUMPERS (B)**
- $5.65 additional
- Add .125 to overall length

**MOLYCOATED BODY (F)**
- Add $2.30 per inch of stroke

**EXTRA EXTENSION (EE)**
- Add $1.35 per inch of stroke

**MAGNET (prefix M) – Add $14.65**
- Reverse acting add .125” to overall length
- Must specify track(s) for use with miniature position sensing (T2, T3, T4) – add $2.50 per track. See page 140 for details.

**HIGH TEMPERATURE SEALS (V)**
- Temperature Range: 0° to 400°F (-18° to 205°C)
- Reverse acting, add $12.15
- Double acting, add $16.35

### MODEL/PRICE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PRICE</th>
<th>DESCRIPTION/WEIGHT (lbs.)</th>
</tr>
</thead>
</table>
### 2" Bore Non-Rotating Air Cylinders (continued)

<table>
<thead>
<tr>
<th>MODEL/PRICE</th>
<th>DESCRIPTION/WEIGHT (lbs.)</th>
<th>DIMENSIONS</th>
</tr>
</thead>
</table>
| NR-31 □-R  | Reverse Single Acting – Pull Type – Rod Normally Extended – Spring Return – Front Nose Mounting  
Standard Stroke Lengths: \( \frac{1}{2} \), 1", 1\( \frac{1}{4} \), 2", 2\( \frac{1}{2} \), 3", 4"  
Maximum Stroke 4"  
Optional Accessories:  
D-129 Mounting Bracket  
D-508 Mounting Nut  
Base Weight: 1.24  
Adder Per Inch of Stroke: .43  
|  |
| $79.35  | BASE PRICE  
Add $5.05 per inch of stroke |

| NR-31 □-RP | Reverse Single Acting – Pivot or Pull Type – Rod Normally Extended  
Spring Return – Rear Pivot Mounting  
Standard Stroke Lengths: \( \frac{1}{2} \), 1", 1\( \frac{1}{4} \), 2", 2\( \frac{1}{2} \), 3", 4"  
Maximum Stroke 4"  
Optional Accessories:  
D-231-3 Piston Rod Clevis  
D-620 Pivot Bracket  
D-508 Mounting Nut  
D-615 Mounting Bracket  
Base Weight: 1.46  
Adder Per Inch of Stroke: .43  |
| $86.85  | BASE PRICE  
Add $5.05 per inch of stroke |

All prices are F.O.B. Monee, Illinois and are subject to change without notice.
2-1/2" Bore Non-Rotating Air Cylinders

- New! Stainless Steel Piston Rod Standard.
- Unique Square Piston Rod with Rounded Corners.
- High Strength Aluminum Alloy Rod Guide.
- Urethane-based Rod Seal.
- Buna N “U” Cup Piston Seal.
- Pressure Rating – 250 PSI Maximum (Air only)
- Available in Double Acting.
- Standard Buna N Seals Temperature Range of -20°F (-25°C) to 200°F (95°C)

☐ Enter Stroke Length as 3rd Digit

**OPTIONS**

NO CHARGE:
- MAGNALUBE® G (G)
- PORTS ROTATED (K)
- SIDE PORTED REAR HEAD (Q)

DOUBLE ACTING BUMPERS (B)
- $5.65 additional
- Add .125 to overall length

MOLYCOATED BODY (F)
- Add $2.30 per inch of stroke

EXTRA EXTENSION (EE)
- Add $1.50 per inch of extension

MAGNET (prefix M) – Add $14.65
- Must specify track(s) for use with miniature position sensing (T2, T3, T4) – add $2.50 per track. See page 140 for details.

HIGH TEMPERATURE SEALS (V)
- Temperature Range : 0° to 400°F (-18° to 205°C)
- Double acting, add $16.35

**MODEL/PRICE**

<table>
<thead>
<tr>
<th>MODEL/PRICE</th>
<th>DESCRIPTION/WEIGHT (lbs.)</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>$94.80 BASE PRICE Add $3.00 per inch of stroke</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| $105.55 BASE PRICE Add $3.00 per inch of stroke |

**Accessories**

- For 9/16” bore, see page 27.
- For 3/4” bore, see page 35.
- For 1-1/16” bore, see page 47.
- For 1-1/2” bore, see page 60.
- For 2” bore, see page 67.
- For 2-1/2” bore, see page 69.