

# 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.
- Enclosed Spring Force: 2 lbs. Relaxed - 4 lbs. Compressed.
- 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)**
- **SIDE PORTED REAR HEAD (Q)**
- **PORTS ROTATED (K)**

**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 \$0.75 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. See page 140 for details.

**HIGH TEMPERATURE SEALS (V)**

Temperature Range : 0° to 400°F (-18° to 205°C)

- Double acting, add \$9.50
- Reverse acting, add \$6.60

**MODEL/PRICE**

**DESCRIPTION/WEIGHT (lbs.)**

**DIMENSIONS**

**NR-02**  -D

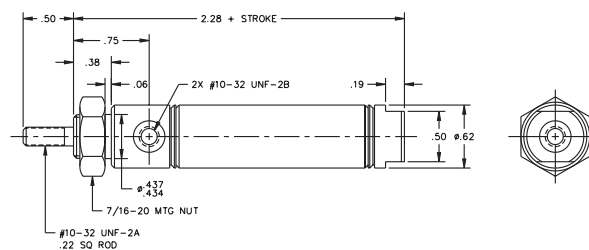


**\$21.00**

**BASE PRICE**

Add \$1.50 per inch of stroke


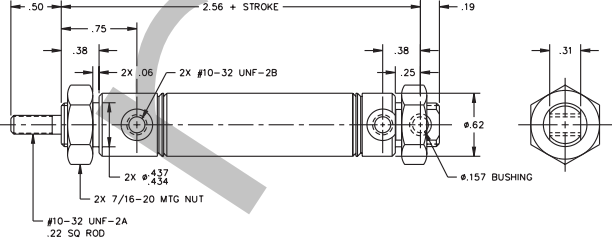

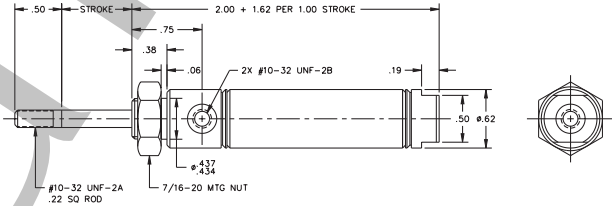

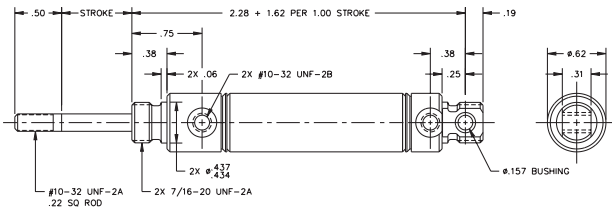
**Double Acting – Air Return-  
Front Nose Mounting**  
Standard Stroke Lengths:  
½", 1", 1½", 2", 2½", 3", 4"  
Maximum Stroke 10"  
Optional Accessory:  
D-770 Mounting Bracket  
Base Weight: .09  
Adder Per Inch of Stroke: .02



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

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

MODEL/PRICE	DESCRIPTION/WEIGHT (lbs.)	DIMENSIONS
<p><b>NR-02□-DXP</b></p>  <p><b>\$27.80</b> BASE PRICE Add \$1.50 per inch of stroke</p>	<p><b>Double Acting – Double End or Rear Pivot Mounting – Air Return</b>  <b>Standard Stroke Lengths:</b>                      ½", 1", 1½", 2", 2½", 3", 4"                      Maximum Stroke 10"  <b>Optional Accessories:</b>                      D-770 Mounting Nut                      D-850 Rod Clevis                      D-12321-A Pivot Bracket  <b>Base Weight: .09</b>  <b>Adder Per Inch of Stroke: .02</b></p>	
<p><b>NR-02□-R</b></p>  <p><b>\$24.05</b> BASE PRICE Add \$2.05 per inch of stroke</p>	<p><b>Reverse Single Acting – Pull Type – Rod Normally Extended – Spring Return – Front Nose Mounting</b>  <b>Standard Stroke Lengths:</b>                      ½", 1", 1½", 2", 2½", 3"                      Maximum Stroke 4"  <b>Optional Accessory:</b>                      D-770 Mounting Bracket  <b>Base Weight: .08</b>  <b>Adder Per Inch of Stroke: .04</b></p>	
<p><b>NR-02□-RP</b></p>  <p><b>\$30.70</b> BASE PRICE Add \$2.05 per inch of stroke</p>	<p><b>Reverse Single Acting – Pivot and Pull Type – Rod Normally Extended – Spring Return – Rear Pivot Mounting</b>  <b>Standard Stroke Lengths:</b>                      ½", 1", 1½", 2", 2½", 3"                      Maximum Stroke 4"  <b>Optional Accessories:</b>                      D-850 Rod Clevis                      D-12321-A Pivot Bracket  <b>Base Weight: .08</b>  <b>Adder Per Inch of Stroke: .04</b></p>	

- Flow Controls
- Alignment Couplers
- Original Line Cylinders
- Cushion Cylinders
- MRS Cylinders
- Non-Rotating Cylinders
- PC Cylinders
- ZLine Cylinders
- Rod Lock Cylinders
- 500 Hydraulic Cylinders
- Hole Punchers Air Reservoirs
- Position Sens Switches

# 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.
- Enclosed Spring Force: 3 lbs. Relaxed – 6 lbs. Compressed.
- 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)
- 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


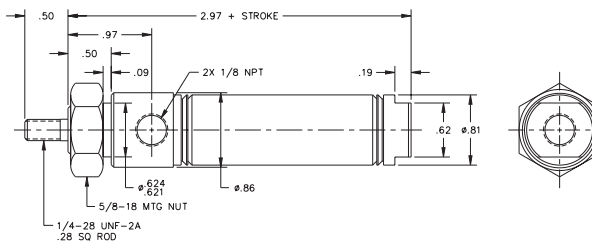

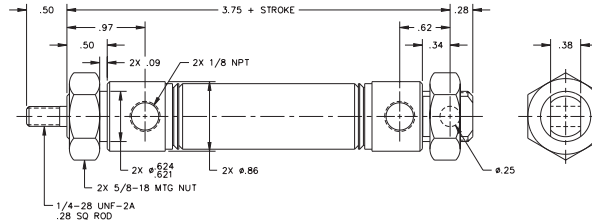
### MAGNET (prefix M) - Add \$8.40

- 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)


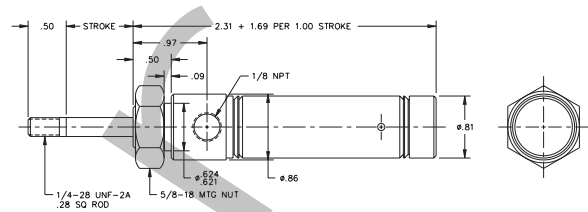

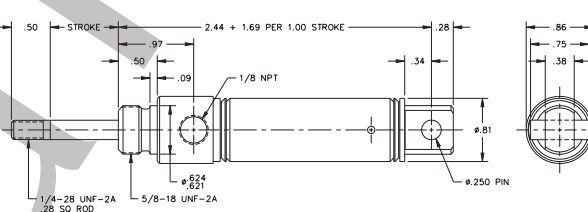

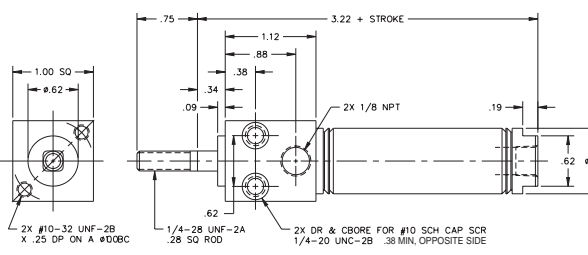

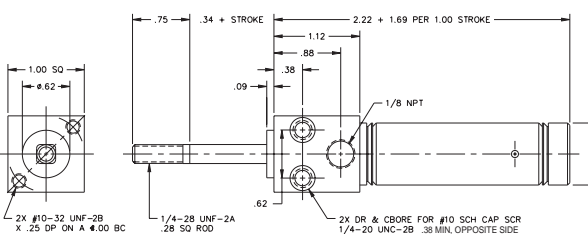

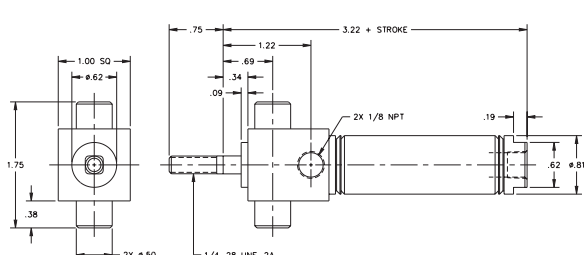
Temperature Range : 0° to 400°F (-18° to 205°C)

- Reverse acting, add \$6.60
- Double acting, add \$9.50

MODEL/PRICE	DESCRIPTION/WEIGHT (lbs.)	DIMENSIONS
<p><b>NR-04</b> <input type="checkbox"/> -D</p>  <p><b>\$22.05</b> BASE PRICE Add \$1.55 per inch of stroke</p>	<p><b>Double Acting – Air Return – Front Nose Mounting</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4", 5", 6" Maximum Stroke 12" Option Accessory: D-129 Mounting Bracket Base Weight : .21 Adder Per Inch of Stroke: .03</p>	
<p><b>NR-04</b> <input type="checkbox"/> -DXP</p>  <p><b>\$28.60</b> BASE PRICE Add \$1.55 per inch of stroke</p>	<p><b>Double Acting – Double End or Rear Pivot Mounting – Air Return</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12" Maximum Stroke 24" Optional Accessories: D-129 Mounting Bracket D-166-3 Rod Clevis D-13498-A Pivot Bracket Base Weight: .29 Adder Per Inch of Stroke: .03</p>	

# ORDER ONLINE 3/4" Bore Non-Rotating Air Cylinders

## 3/4" Bore Non-Rotating Air Cylinders (continued)

MODEL/PRICE	DESCRIPTION/WEIGHT (lbs.)	DIMENSIONS
<p><b>NR-04</b> □ -R</p>  <p><b>\$24.30</b> BASE PRICE Add \$2.05 per inch of stroke</p>	<p><b>Reverse Single Acting – Pull Type – Rod Normally Extended – Spring Return – Front Nose Mounting</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4" Maximum Stroke 6" Optional Accessory: D-129 Mounting Bracket Base Weight: .18 Adder Per Inch of Stroke: .07</p>	
<p><b>NR-04</b> □ -RP</p>  <p><b>\$31.40</b> BASE PRICE Add \$2.05 per inch of stroke</p>	<p><b>Reverse Single Acting – Pull Type – Rod Normally Extended – Spring Return – Rear Pivot Mounting</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4" Maximum Stroke 6" Optional Accessories: D-167 Mounting Brackets D-166-3 Piston Rod Clevis Base Weight: .18 Adder Per Inch of Stroke: .07</p>	
<p><b>BFNR-04</b> □ -D</p>  <p><b>\$36.35</b> BASE PRICE Add \$1.55 per inch of stroke</p>	<p><b>Double Acting – Front Block Mounting – Air Return</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4", 5", 6" Maximum Stroke 12" Base Weight: .22 Adder Per Inch of Stroke: .03</p>	
<p><b>BFNR-04</b> □ -R</p>  <p><b>\$39.15</b> BASE PRICE Add \$2.05 per inch of stroke</p>	<p><b>Pull Type – Front Block Mounting Rod Normally Extended – Reverse Single Acting – Spring Return</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4" Maximum Stroke 6" Base Weight: .19 Adder per inch of stroke: .07</p>	
<p><b>BFTNR-04</b> □ -D</p>  <p><b>\$47.95</b> BASE PRICE Add \$1.55 per inch of stroke</p>	<p><b>Double Acting – Front Block Trunnion Mounting – Air Return</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4" Maximum Stroke 12" Optional Accessories: TRB-2 Trunnion Brackets D-166-3 Rod Clevis Base Weight: .29 Adder Per Inch of Stroke: .03</p>	

- Flow Controls
- Alignment Couplers
- Original Line Cylinders
- Cushion Cylinders
- MRS Cylinders
- Non-Rotating Cylinders
- PC Cylinders
- Z-Line Cylinders
- Rod Lock Cylinders
- 500 Hydraulic Cylinders
- Hole Punchers Air Reservoirs
- Position Sens Switches

# 1-1/16" 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.
- Enclosed Spring Force: 6 lbs. Relaxed – 12 lbs. Compressed.
- 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)
- 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


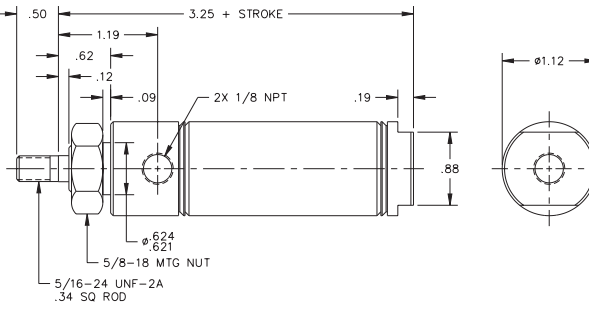

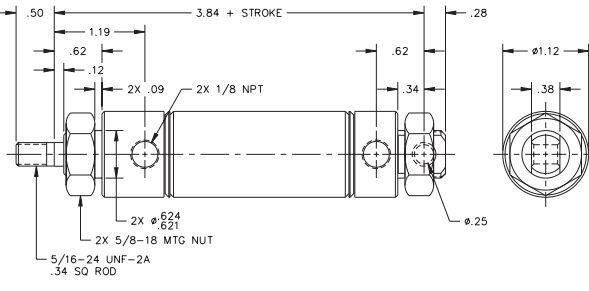

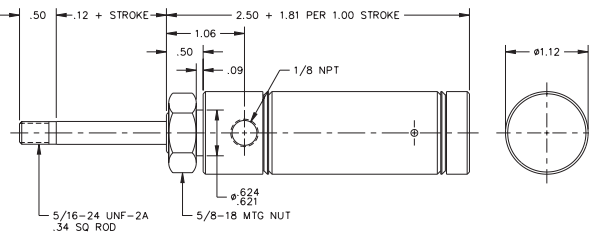
### MAGNET (prefix M) - Add \$10.45

- 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)


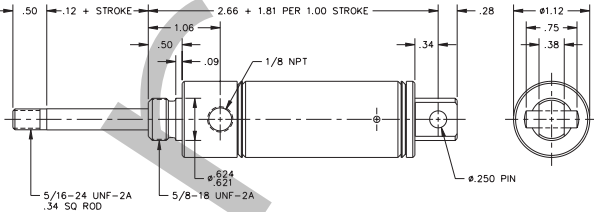

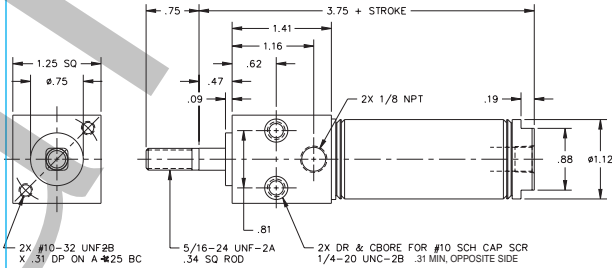

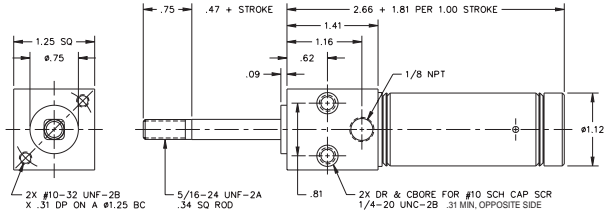

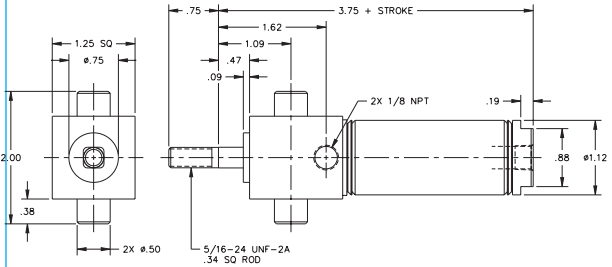
Temperature Range : 0° to 400°F (-18° to 205°C)

- Reverse acting, add \$7.40
- Double acting, add \$11.40

MODEL/PRICE	DESCRIPTION/WEIGHT (lbs.)	DIMENSIONS
<p><b>NR-09</b> <input type="checkbox"/> -D</p>  <p><b>\$25.00</b> BASE PRICE Add \$1.55 per inch of stroke</p>	<p><b>Double Acting – Air Return – Front Nose Mounting</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4", 5", 6" Maximum Stroke 12" Option Accessory: D-129 Mounting Bracket Base Weight : .33 Adder Per Inch of Stroke: .05</p>	 <p>Diagram showing dimensions for NR-09-D: Overall length 3.25 + STROKE, mounting bracket dimensions (.50, .119, .62, .12, .09, .19), 2X 1/8 NPT ports, 5/8-18 MTG NUT, 5/16-24 UNF-2A .34 SQ ROD, and bore diameter ø1.12.</p>
<p><b>NR-09</b> <input type="checkbox"/> -DXP</p>  <p><b>\$33.95</b> BASE PRICE Add \$1.55 per inch of stroke</p>	<p><b>Double Acting – Double End or Rear Pivot Mounting – Air Return</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12" Maximum Stroke 24" Optional Accessories: D-129 Mounting Bracket D-166-1 Rod Clevis D-13498-A Pivot Bracket Base Weight: .33 Adder Per Inch of Stroke: .05</p>	 <p>Diagram showing dimensions for NR-09-DXP: Overall length 3.84 + STROKE, mounting bracket dimensions (.50, .119, .62, .12, .09, .19, .28), 2X 1/8 NPT ports, 2X ø.624 ø.621 5/8-18 MTG NUT, 5/16-24 UNF-2A .34 SQ ROD, and bore diameter ø1.12.</p>
<p><b>NR-09</b> <input type="checkbox"/> -R</p>  <p><b>\$27.15</b> BASE PRICE Add \$2.55 per inch of stroke</p>	<p><b>Reverse Single Acting – Pull Type – Rod Normally Extended – Spring Return – Front Nose Mounting</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4" Maximum Stroke 6" Optional Accessory: D-129 Mounting Bracket Base Weight: .24 Adder Per Inch of Stroke: .16</p>	 <p>Diagram showing dimensions for NR-09-R: Overall length .12 + STROKE, mounting bracket dimensions (.50, .106, .50, .09, .19), 1/8 NPT port, ø.624 ø.621 5/8-18 MTG NUT, 5/16-24 UNF-2A .34 SQ ROD, and bore diameter ø1.12.</p>

# 1-1/16" Bore Non-Rotating Air Cylinders

## 1-1/16" Bore Non-Rotating Air Cylinders (continued)

MODEL/PRICE	DESCRIPTION/WEIGHT (lbs.)	DIMENSIONS
<p><b>NR-09</b>  <b>-RP</b></p> <p><b>\$32.25</b> BASE PRICE Add \$2.55 per inch of stroke</p>	<p><b>Reverse Single Acting – Pivot or Pull Type – Rod Normally Extended Spring Return – Rear Pivot Mounting</b></p> <p><b>Standard Stroke Lengths:</b> 1/2", 1", 1 1/2", 2", 2 1/2", 3", 4" Maximum Stroke 6"</p> <p><b>Optional Accessories:</b> D-166-1 Piston Rod Clevis D-167 Mounting Bracket</p> <p><b>Base Weight: .22</b> <b>Adder Per Inch of Stroke: .16</b></p>	
<p><b>BFNR-09</b>  <b>-D</b></p> <p><b>\$40.50</b> BASE PRICE Add \$1.55 per inch of stroke</p>	<p><b>Double Acting – Front Block Mounting – Air Return</b></p> <p><b>Standard Stroke Lengths:</b> 1/2", 1", 1 1/2", 2", 2 1/2", 3", 4", 5", 6" Maximum Stroke 12"</p> <p><b>Base Weight: .49</b> <b>Adder Per Inch of Stroke: .05</b></p>	
<p><b>BFNR-09</b>  <b>-R</b></p> <p><b>\$44.35</b> BASE PRICE Add \$2.55 per inch of stroke</p>	<p><b>Reverse Single Acting – Front Block Mounting – Rod Normally Extended – Reverse Single Acting – Spring Return</b></p> <p><b>Standard Stroke Lengths:</b> 1/2", 1", 1 1/2", 2", 2 1/2", 3", 4" Maximum Stroke 6"</p> <p><b>Base Weight: .36</b> <b>Adder Per Inch of Stroke: .16</b></p>	
<p><b>BFTNR-09</b>  <b>-D</b></p> <p><b>\$49.30</b> BASE PRICE Add \$1.55 per inch of stroke</p>	<p><b>Double Acting – Front Block Trunnion Mounting – Air Return</b></p> <p><b>Standard Stroke Lengths:</b> 1/2", 1", 1 1/2", 2", 2 1/2", 3", 4" Maximum Stroke 12"</p> <p><b>Optional Accessories:</b> TRB-2 Trunnion Brackets D-166-1 Rod Clevis</p> <p><b>Base Weight: .49</b> <b>Adder Per Inch of Stroke: .05</b></p>	

Flow Controls

Alignment Couplers

Original Line Cylinders

Cushion Cylinders

MRS Cylinders

Non-Rotating Cylinders

PC Cylinders

Z-Line Cylinders

Rod Lock Cylinders

500 Hydraulic Cylinders

Hole Punchers Air Reservoirs

Position Sensing Switches

# 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.
- Enclosed Spring Force: 8.5 lbs. Relaxed – 17 lbs. Compressed.
- 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)**
- **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

## DESCRIPTION/WEIGHT (lbs.)

## DIMENSIONS

### NR-17 -D



**\$45.45**

**BASE PRICE**

Add \$2.35 per inch of stroke

**Double Acting – Air Return – Front Nose Mounting – Standard Stroke Lengths:**

1/2", 1", 1 1/2", 2", 2 1/2", 3", 4", 5", 6"

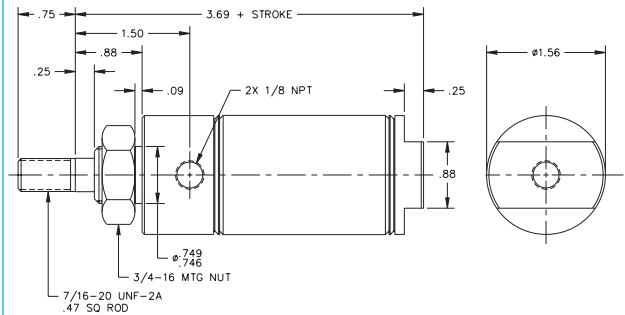
Maximum Stroke 12"

**Optional Accessory:**

D-241 Mounting Bracket

**Base Weight: .69**

**Adder Per Inch of Stroke: .08**



### NR-17 -DXP



**\$55.60**

**BASE PRICE**

Add \$2.35 per inch of stroke

**Double Acting – Double End or Rear Pivot Mounting – Air Return Standard Stroke Lengths:**

1/2", 1", 1 1/2", 2", 2 1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

Maximum Stroke 24"

**Optional Accessories:**

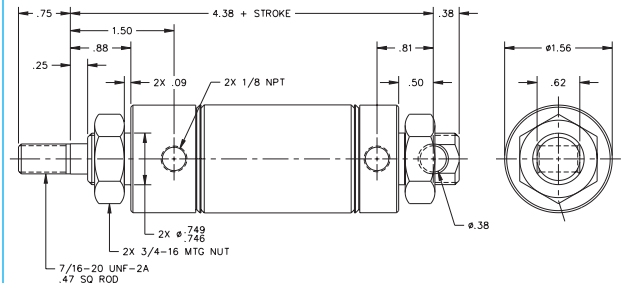
D-241 Mounting Bracket

D-231-1 Rod Clevis

D-229 Pivot Bracket


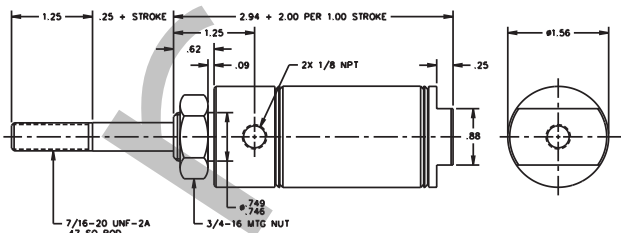

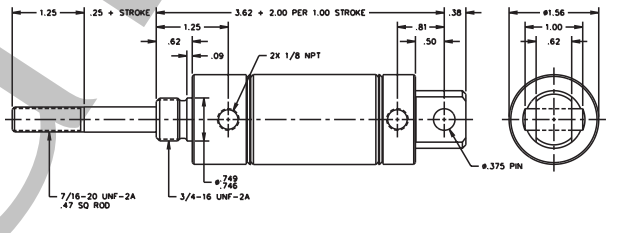

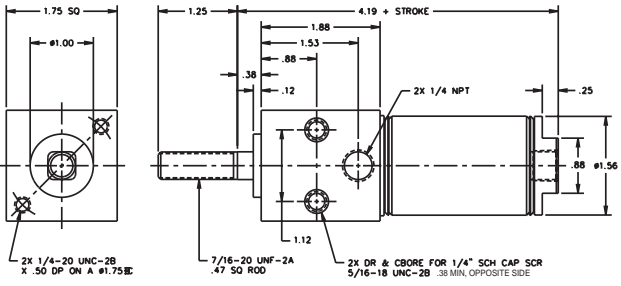

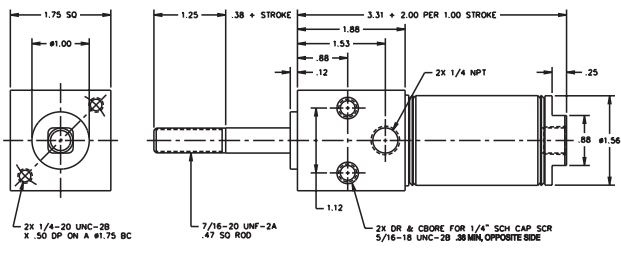

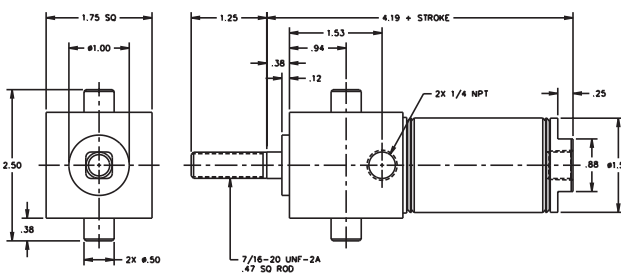
**Base Weight: .82**

**Adder Per Inch of Stroke: .08**



# 1-1/2" Bore Non-Rotating Air Cylinders

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

MODEL/PRICE	DESCRIPTION/WEIGHT (lbs.)	DIMENSIONS
<p><b>NR-17</b> □ -R</p>  <p><b>\$44.70</b> BASE PRICE Add \$3.65 per inch of stroke</p>	<p><b>Reverse Single Acting – Pull Type – Rod Normally Extended Spring Return – Spring force 8.5 lbs. relaxed, 17 lbs. compressed – Front Nose Mounting</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4" Maximum Stroke 6" Optional Accessory: D-241 Mounting Bracket Base Weight: .44 Adder Per Inch of Stroke: .22</p>	
<p><b>NR-17</b> □ -RP</p>  <p><b>\$50.95</b> BASE PRICE Add \$3.65 per inch of stroke</p>	<p><b>Reverse Single Acting – Pivot and Pull Type – Rod Normally Extended – Spring Return – Spring Force 8.5 lbs. relaxed, 17 lbs. compressed – Rear Pivot Mounting</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4" Maximum Stroke 6" Optional Accessories: D-231-1 Piston Rod Clevis D-229 Mounting Bracket Base Weight: .45 Adder Per Inch of Stroke: .22</p>	
<p><b>BFNR-17</b> □ -D</p>  <p><b>\$64.10</b> BASE PRICE Add \$2.35 per inch of stroke</p>	<p><b>Double Acting – Front Block Mounting – Air Return</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4", 5", 6" Maximum Stroke 12" Base Weight: .99 Adder Per Inch of Stroke: .08</p>	
<p><b>BFNR-17</b> □ -R</p>  <p><b>\$66.55</b> BASE PRICE Add \$3.65 per inch of stroke</p>	<p><b>Pull Type – Front Block Mounting – Rod Normally Extended – Reverse Single Acting – Spring Return</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4" Maximum Stroke 6" Base Weight: .96 Adder Per Inch of Stroke: .22</p>	
<p><b>BFTNR-17</b> □ -D</p>  <p><b>\$73.80</b> BASE PRICE Add \$2.35 per inch of stroke</p>	<p><b>Double Acting – Front Block Trunnion Mounting – Spring Return</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4" Maximum Stroke 12" Optional Accessories: TRB-2 Trunnion Brackets D-231-1 Rod Clevis Base Weight: 1.06 Adder Per Inch of Stroke: .08</p>	

- Flow Controls
- Alignment Couplers
- Original Line Cylinders
- Cushion Cylinders
- MRS Cylinders
- Non-Rotating Cylinders
- PC Cylinders
- ZLine Cylinders
- Rod Lock Cylinders
- 500 Hydraulic Cylinders
- Hole Punchers Air Reservoirs
- Position Sens Switches



# 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.
- Enclosed Spring Force: 15 lbs. Relaxed – 30 lbs. Compressed.
- 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)

### 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 extension

### 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

## DESCRIPTION/WEIGHT (lbs.)

## DIMENSIONS

### NR-31 -D

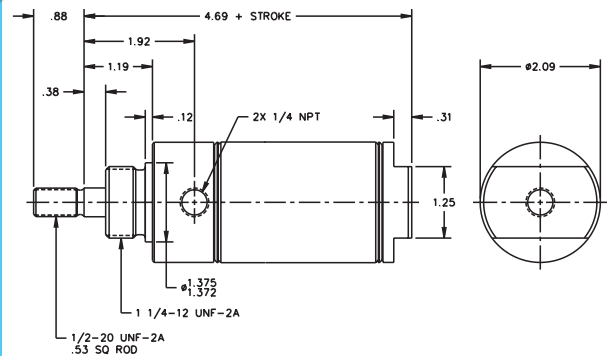


**\$66.05**

**BASE PRICE**

Add \$2.70 per inch of stroke

**Double Acting – Air Return  
Front Nose Mounting**  
Standard Stroke Lengths:  
½", 1", 1½", 2", 2½", 3", 4", 5", 6"  
Maximum Stroke 12"  
Optional Accessories:  
D-615 Mounting Bracket  
D-508 Mounting Nut  
Base Weight: 1.40  
Adder Per Inch of Stroke: .15



### NR-31 -DXP

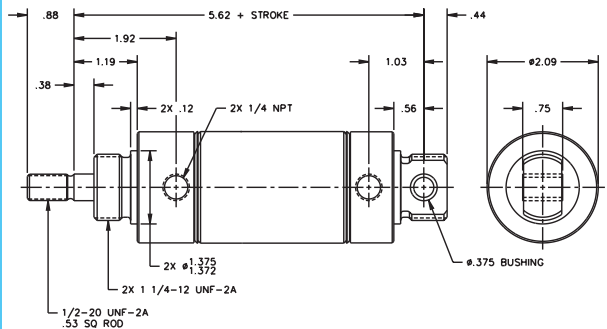


**\$79.20**

**BASE PRICE**


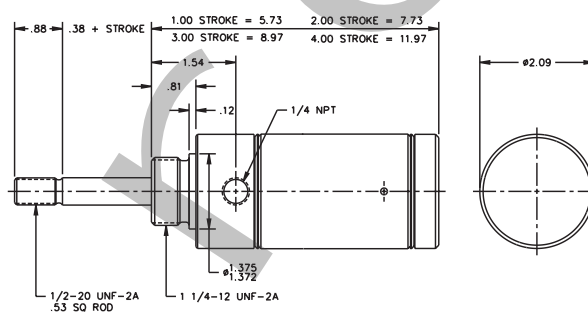

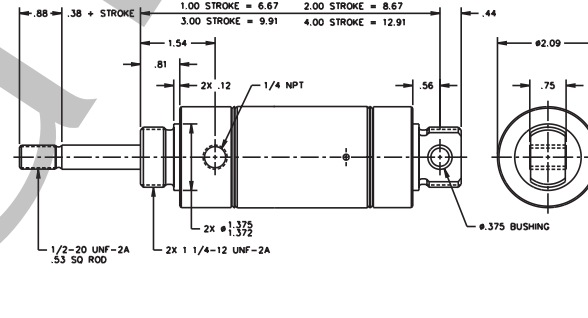
Add \$2.70 per inch of stroke

**Double Acting – Universal  
Mounting Type – Pivot or Double  
End – Air Return**  
Standard Stroke Lengths:  
½", 1", 1½", 2", 2½", 3", 4", 5",  
6", 7", 8", 9", 10", 11", 12"  
Maximum Stroke 24"  
Optional Accessories:  
D-615 Mounting Bracket  
D-231-3 Rod Clevis  
D-620 Pivot Bracket  
D-508 Mounting Nut  
Base Weight: 1.62  
Adder Per Inch of Stroke: .15



# 2" Bore Non-Rotating Air Cylinders

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

MODEL/PRICE	DESCRIPTION/WEIGHT (lbs.)	DIMENSIONS
<p><b>NR-31 □ -R</b></p>  <p><b>\$79.35</b> BASE PRICE Add \$5.05 per inch of stroke</p>	<p><b>Reverse Single Acting – Pull Type – Rod Normally Extended – Spring Return – Front Nose Mounting</b></p> <p><b>Standard Stroke Lengths:</b> ½", 1", 1½", 2", 2½", 3", 4" Maximum Stroke 4"</p> <p><b>Optional Accessories:</b> D-129 Mounting Bracket D-508 Mounting Nut <b>Base Weight: 1.24</b> <b>Adder Per Inch of Stroke: .43</b></p>	
<p><b>NR-31 □ -RP</b></p>  <p><b>\$86.85</b> BASE PRICE Add \$5.05 per inch of stroke</p>	<p><b>Reverse Single Acting – Pivot or Pull Type – Rod Normally Extended Spring Return – Rear Pivot Mounting</b></p> <p><b>Standard Stroke Lengths:</b> ½", 1", 1½", 2", 2½", 3", 4" Maximum Stroke 4"</p> <p><b>Optional Accessories:</b> D-231-3 Piston Rod Clevis D-620 Pivot Bracket D-508 Mounting Nut D-615 Mounting Bracket <b>Base Weight: 1.46</b> <b>Adder Per Inch of Stroke: .43</b></p>	

PROMELB

- Flow Controls
- Alignment Couplers
- Original Line Cylinders
- Cushion Cylinders
- MRS Cylinders
- Non-Rotating Cylinders
- PC Cylinders
- ZLine Cylinders
- Rod Lock Cylinders
- 500 Hydraulic Cylinders
- Hole Punchers Air Reservoirs
- Position Sens Switches

# 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)


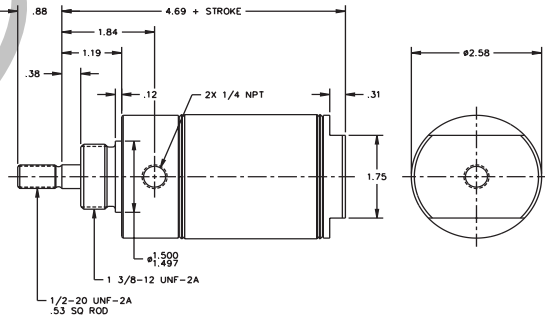

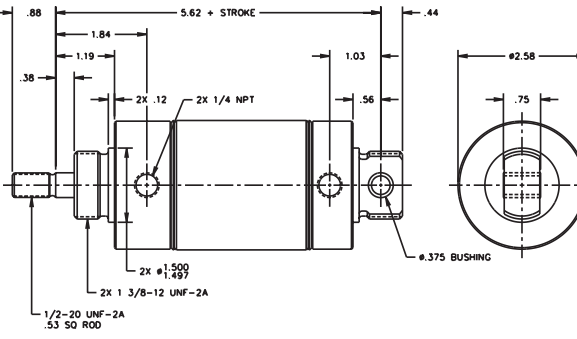
- Add \$1.50 per inch of extension

### 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	DESCRIPTION/WEIGHT (lbs.)	DIMENSIONS
 <p><b>NR-50-D</b></p> <p><b>\$94.80</b> BASE PRICE Add \$3.00 per inch of stroke</p>	<p><b>Double Acting – Air Return Front Nose Mounting</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4", 5", 6" Maximum Stroke 12" Optional Accessories: D-615-1 Mounting Bracket D-2540 Mounting Nut Base Weight: 1.98 Adder Per Inch of Stroke: .17</p>	
 <p><b>NR-50-DXP</b></p> <p><b>\$105.55</b> BASE PRICE Add \$3.00 per inch of stroke</p>	<p><b>Double Acting – Universal Mounting Type – Pivot or Double End – Air Return</b> Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12" Maximum Stroke 24" Optional Accessories: D-615-1 Mounting Bracket D-231-3 Rod Clevis D-620 Pivot Bracket D-2540 Mounting Nut Base Weight: 2.27 Adder Per Inch of Stroke: .17</p>	

## • 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.