

2" Bore Air Cylinders

- Ground and Polished, High Strength Carbon Steel Piston Rod Standard – 303 Stainless Steel Rod Available as an Option – Bronze Rod Guide Bushing Standard
- Force Exerted Approximately 3.1 of Air Line Pressure
- Enclosed Spring Force: 15 lbs. Relaxed – 30 lbs. Compressed
- Mounting Nuts Not Included

OPTIONS:

NO CHARGE:

- **MAGNALUBE G (G)**
- **PORTS ROTATED (K)**
- **NO THREAD (NT)**
- **SIDE PORTED REAR HEAD (Q)**
Add .38" to nose mount overall length.

SINGLE AND REVERSE ACTING BUMPERS (B)

- additional
- Add .125" to overall length

DOUBLE ACTING BUMPERS (B)

- additional
- Add .250 to overall length

EXTRA EXTENSION (EE)

- Single, reverse and double acting, add per inch of extension
- DXDE, add per inch of extension; extension added to each end

DOUBLE ACTING FAILSAFE

- (JS = Spring Return, JR = Spring Extend)
- Add to base price + to stroke adder
- See page 1.65 for overall length adders

OPTIONS continued...

MAGNET (prefix M)

- Single and reverse acting add .125" to overall length,
- Stainless steel rod becomes standard with this option
- Must specify track(s) for use with miniature position sensing (T2, T3, T4) – add per track. See Related Products, page 8.12 for details.

LOW TEMPERATURE (N)

Temperature Range: -40° to 200°F

- Single acting
- Reverse acting
- Double acting
- DXDE

HIGH TEMPERATURE "U" CUPS (V)

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

- Single acting
- Double acting
- DXDE
- Reverse acting

MOLYCOATED BODY (F)

- Add per inch of stroke

NON-LUBE SERVICE (E)

- Single acting
- Double acting
- DXDE

ROD WIPER (W)

(not available in standard single acting)

STAINLESS STEEL ROD (prefix SR)

- Standard on DXP, DXDE, XP, M option

LOW PRESSURE HYDRAULIC (HL)

- 250 psi maximum
- Double acting models only
- Option specified as a prefix
- Add

Enter Stroke Length as 3rd Digit

MODEL/PRICE

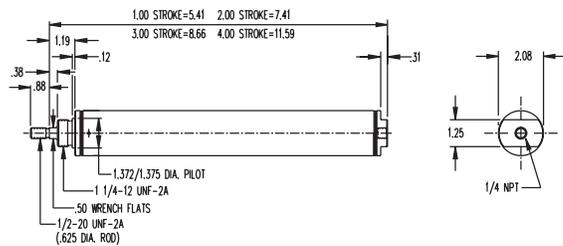
DESCRIPTION/WEIGHT (lbs.)

DIMENSIONS

31



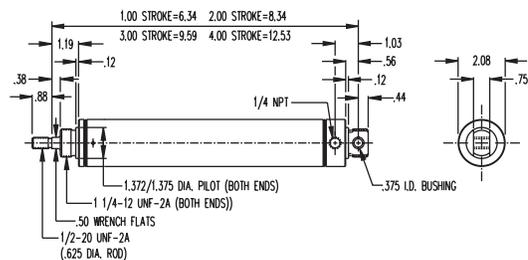
Single Acting – Spring Return – Front Nose Mounting
Standard Stroke Lengths:
 ½", 1", 1½", 2", 2½", 3", 4"
 Maximum Stroke – 4"
 Optional Stainless Steel Rod
Optional Accessories:
 D-615 Mounting Bracket
 D-508 Mounting Nut
Base Weight: 1.04
Adder Per Inch of Stroke: .43



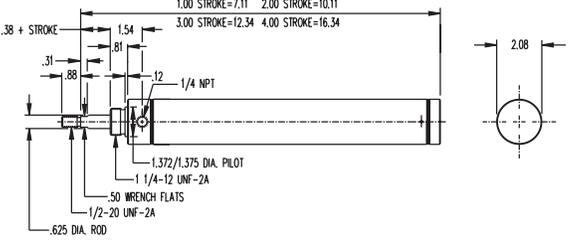
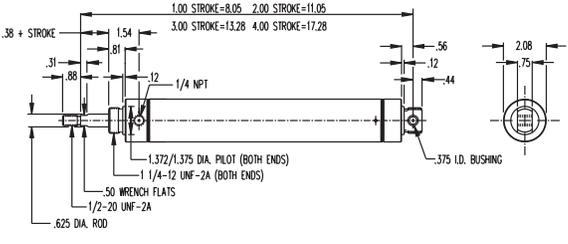
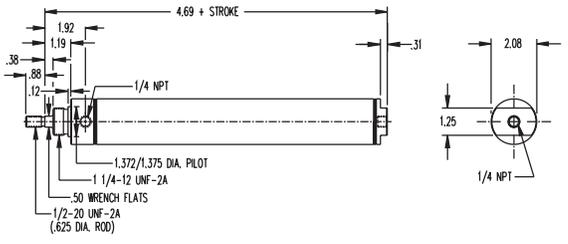
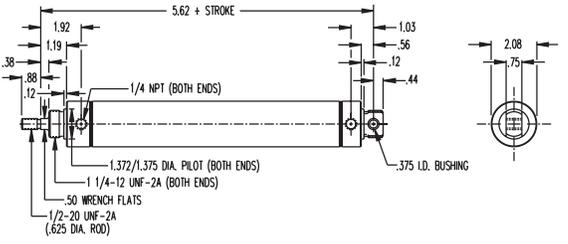
31 -XP



Single Acting – Universal Mounting Type – Nose, Pivot or Double End – Spring Return – Bronze Rod Bushing and Bronze Pivot Bushing
Standard Stroke Lengths:
 ½", 1", 1½", 2", 2½", 3", 4"
 Maximum Stroke – 4"
 Stainless Steel Rod Standard
Optional Accessories:
 D-231-3 Piston Rod Clevis
 D-615 Mounting Bracket
 D-620 Pivot Brackets
 D-508 Mounting Nut
Base Weight: 1.26
Adder Per Inch of Stroke: .43

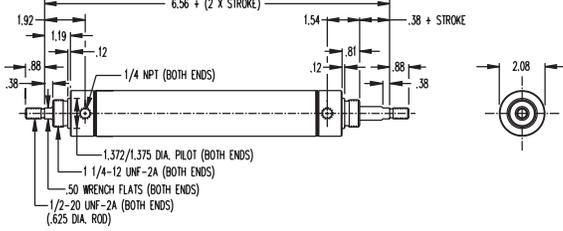


2" Bore Air Cylinders

MODEL/PRICE	DESCRIPTION/WEIGHT (lbs.)	DIMENSIONS
<p>31□-R</p> 	<p>Reverse Single Acting – Pull Type – Rod Normally Extended – Spring Return – Front Nose Mounting Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4" Maximum Stroke – 4" Optional Stainless Steel Rod Optional Accessories: D-615 Mounting Bracket D-508 Mounting Nut Base Weight: 1.24 Adder Per Inch of Stroke: .43</p>	
<p>31□-RP</p> 	<p>Reverse Single Acting – Pivot and Pull Type – Rod Normally Extended – Spring Return – Rear Pivot Mounting Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4" Maximum Stroke – 4" Optional Stainless Steel Rod 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</p>	
<p>31□-D</p> 	<p>Double Acting – Air Return – Front Nose Mounting Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4", 5", 6" Maximum Stroke – 12" Optional Stainless Steel Rod Optional Accessories: D-508 Mounting Nut D-615 Mounting Bracket Base Weight: 1.40 Adder Per Inch of Stroke: .15</p>	
<p>31□-DXP</p> 	<p>Double Acting – Universal Mounting Type – Pivot or Double End – Air Return – Bronze Pivot Bushing Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12", 13", 14", 15", 16", 17", 18", 19", 20", 21", 22", 23", 24" Maximum Stroke – 32" Stainless Steel Rod Standard Optional Accessories: D-231-3 Piston Rod Clevis D-615 Mounting Bracket D-620 Pivot Brackets D-508 Mounting Nut Base Weight: 1.62 Adder Per Inch of Stroke: .15</p>	

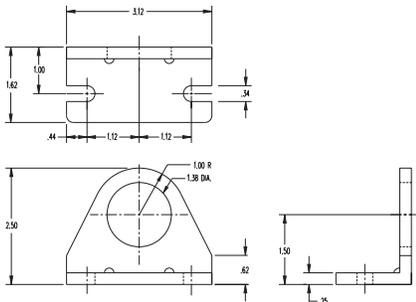
- Standard Air Cylinders
- Three-Position Cylinders
- Cushion Cylinders
- MRS® Cylinders
- Non-Rotating Air Cylinders
- PC Cylinders
- All Stainless Repairable
- Z Line Air Cylinders
- Rod Lock Cylinders
- 500 Hydraulic Cylinders
- Hole Punch Cylinders

2" Bore Air Cylinders

MODEL/PRICE	DESCRIPTION/WEIGHT (lbs.)	DIMENSIONS
31□-DXDE 	Double Acting – Double End Rod – Air Return – Double End Mounting Standard Stroke Lengths: ½", 1", 1½", 2", 2½", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12" Maximum Stroke – 12" Stainless Steel Rod Standard Optional Accessories: D-615 Mounting Bracket D-508 Mounting Nut Base Weight: 1.97 Adder Per Inch of Stroke: .24	

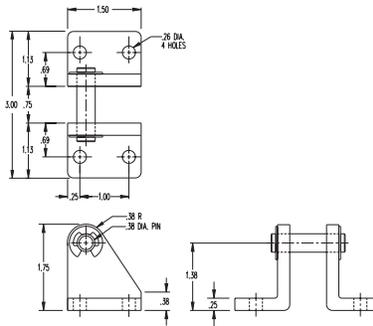
2" Bore Accessories

D-615



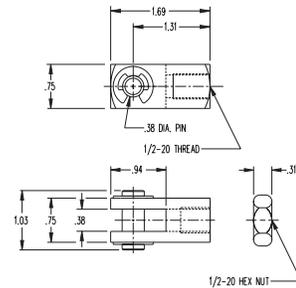
Mounting Bracket

D-620



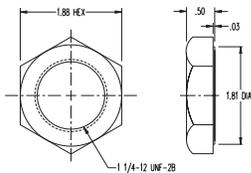
Pivot Brackets

D-231-3



Piston Rod Clevis

D-508



Mounting Nut

Note: For stainless steel accessories see page 1.99 and 1.102-1.103.