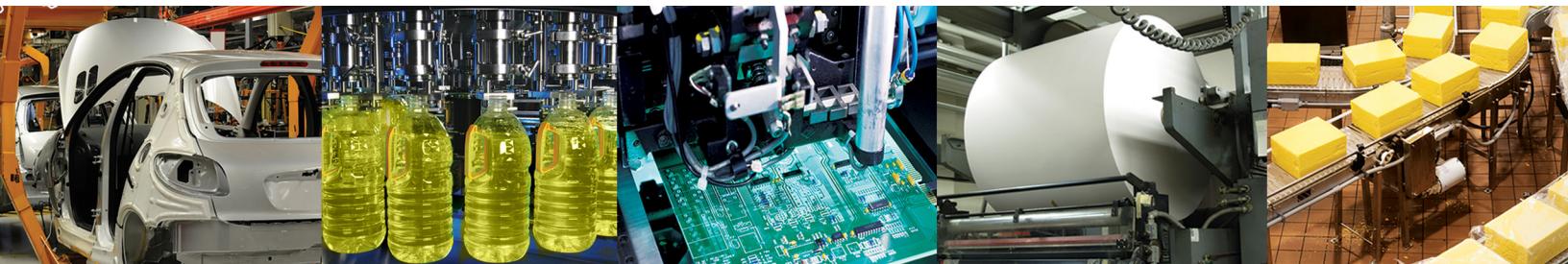


# M Series

Round Line, Non-Repairable Cylinder Line



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The **M Series** is a stainless steel body air cylinder line that is the perfect solution for tight design budgets. This cylinder is reliable and is designed and built to maximize performance. It will exceed all of your light-duty cylinder application requirements. The M Series comes standard with a multitude of value-added features such as stainless steel piston rods, roll-formed threads at both ends of the piston rod, and pre-lubed for non-lube added service. Furthermore, Numatics has the design capabilities to customize a product for your specific application. These are just a sample of things that make the M Series the Superior Interchangeable round body air cylinder line.

#### Piston Rod

The type 303 stainless steel piston rod is ground, polished, and roller burnished for a mirror finish to ensure corrosion-free longevity.

#### Rod Thread

Roll-formed rod threads (at both ends) ensure a durable customer-end connection as well as piston to rod connection.

#### Rod Bushing

Oil impregnated sintered bronze rod bushing provides excellent wear resistance and anti-friction qualities for smooth operation and long life.

#### End Caps

The end caps are made from a high strength aluminum alloy.

#### Ports

Unrestricted (full-flow) **ports** in conjunction with **rectangular slots** on the piston-mating surface (at both ends) enable the air to work on a larger piston area for effortless breakaway (even at low pressures).

#### Tube

The type 304 stainless steel tube, drawn and polished to a micro-inch finish on the I.D., enables low friction and longevity.

#### Crimp

The cylinder body is attached to the end caps using innovative assembly equipment that ensures a consistent and reliable double rolled-in crimp.

#### Piston

High strength aluminum alloy piston with blow-by flats (double acting only) ensure proper and rapid seal inflation. Piston rod connections are threaded (roll-formed threads), sealed with Loctite Threadlocker®, torqued, and staked for a solid, leak-proof connection.

#### Piston Seals

Low friction Buna N "U" cup **piston seals** (optional low and high temperature seals) are wear compensating for millions of maintenance free cycles.

#### Magnet

Magnetic band position indication is optional in 9/16" – 3" bore sizes. The **magnet** does not affect the overall length of the cylinder 3/4" – 3" bore sizes (double acting only) but does add .250" to the overall length of the 9/16" bore cylinders.

#### Rod Seal

The low friction Buna N "U" cup **rod seal** (optional low and high temperature seals) is wear compensating to ensure longevity.

#### Pre-Lubricated

**Pre-lubricated** with our specially formulated oil based compound for extensive maintenance free performance.

Threadlocker® is a registered trademark to the Loctite Corporation.



#### Standard Specifications:

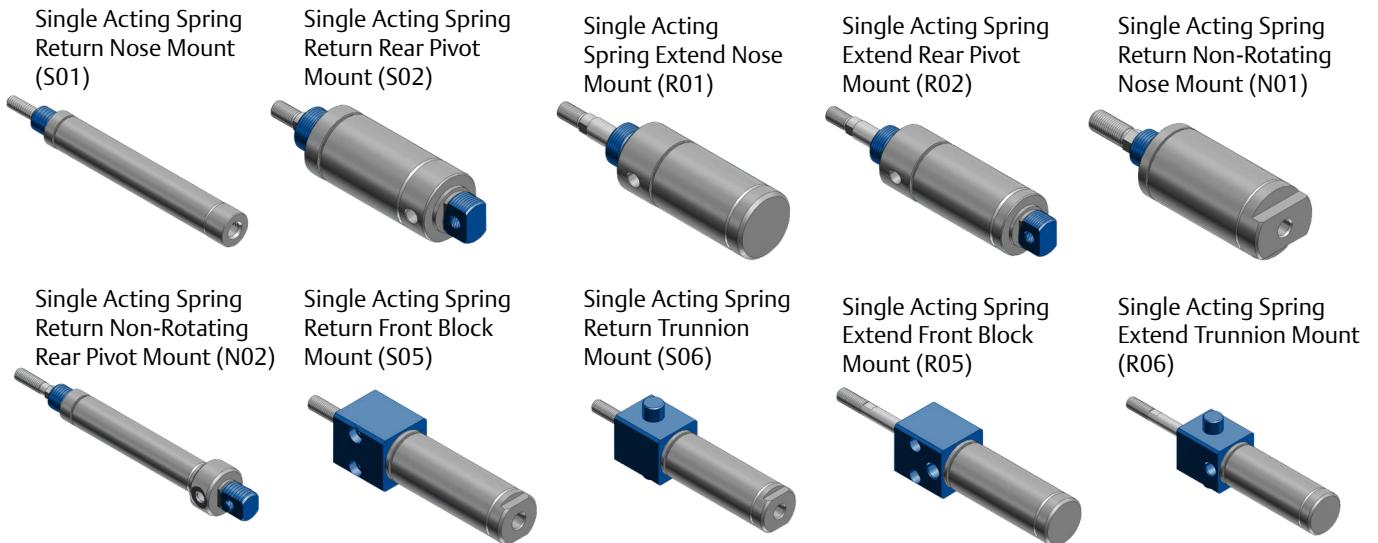
- 303 stainless steel piston rods
- 304 stainless steel cylinder tube
- Aluminum head and caps
- Maximum pressure rating: 250 psi air
  - Except for derlin (corrosion resistant) versions: 100 psi air
- Twelve bore sizes: 5/16" – 3"
- Standard temperature: -10°F to +165°F
  - Except for derlin (corrosion resistant) versions: +32°F to +160°F
- Single and double acting
- Double rods

#### Optional Specifications:

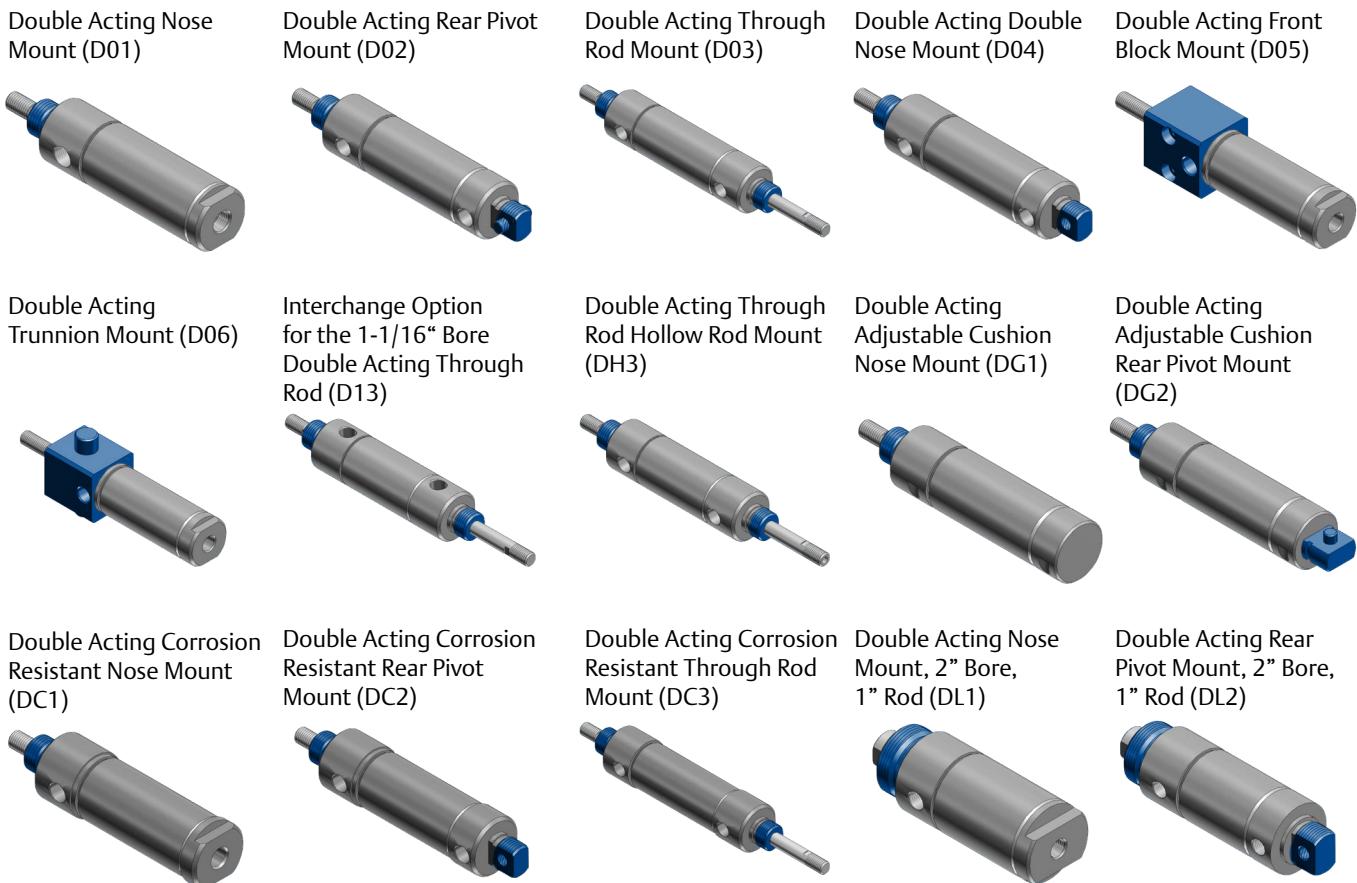
- Corrosion Resistant Delrin® Head and End Cap
- Position Feedback ACCU M Series Magnetic pistons
- Magnetic pistons
- Adjustable cushions
- Double rods
- High and low temperature seals
- Rod wipers

## Standard M Series Mounts

## Single Acting



## Double Acting



\*For a complete offering a dimensional drawings by mounting type, see the comprehensive M Series catalog PDF via the following path: Emerson.com

## Volume Chambers

Nose Mount Volume  
Chamber (V01)



Rear Pivot Mount Volume  
Chamber (V02)



## How to Order

## Base Models

1500 D01 - 02 A - 01 - 1A01A

## Bore Size

0313 = 5/16"  
 0438 = 7/16"  
 0563 = 9/16"  
 0750 = 3/4"  
 0875 = 7/8"  
 1062 = 1-1/16"  
 1250 = 1-1/4"  
 1500 = 1-1/2"  
 1750 = 1-3/4"  
 2000 = 2"  
 2500 = 2-1/2"  
 3000 = 3"

## Mounting Style

S01 = Single Acting Spring Return Nose Mount  
 S02 = Single Acting Spring Return Rear Pivot  
 R01 = Single Acting Spring Extend Nose Mount  
 R02 = Single Acting Spring Extend Rear Pivot  
 N01 = Single Acting Spring Return Non-Rotating Nose Mount  
 N02 = Single Acting Spring Return Non-Rotating Rear Pivot  
 D01 = Double Acting Nose Mount  
 D02 = Double Acting Rear Pivot  
 D03 = Double Acting Through Rod  
 D04 = Double Acting Double Nose  
 D05 = Double Acting Front Block  
 D13 = Interchange Option for 1-1/16" Bore Double Acting, Through Rod  
 DH3 = Double Acting Through Rod Hollow Rod  
 D06 = Double Acting Trunnion Mount  
 DG1 = Double Acting Adjustable Cushion Nose Mount  
 DG2 = Double Acting Adjustable Cushion Rear Pivot  
 DL1 = Double Acting Nose Mount 2" Bore, 1" Rod  
 DL2 = Double Acting Rear Pivot 2" Bore, 1" Rod  
 DC1 = Double Acting Corrosion Resistant Nose Mount  
 DC2 = Double Acting Corrosion Resistant Rear Pivot  
 DC3 = Double Acting Corrosion Resistant Through Rod  
 V01 = Nose Mount Volume Chamber  
 V02 = Rear Pivot Mount Volume Chamber  
 DM1 = Nose Mount MRS Interchange  
 DM2 = Rear Pivot Mount MRS Interchange  
 DS1 = Stainless Steel Double Acting Nose Mount\*

## Rod and/or Thread Extension

Note: Leave blank if rod and/or thread extension is not required.

1A = Rod Extension (must specify extension)  
 Example: 1A 01A (full and fractional length)  
 2A = Thread Extension (must specify extension)  
 Example: 2A 01A (full and fractional length)  
 RT = Rod and Thread Extension (must specify extension)  
 Example: RT 01A01A (full and fractional length)

Note: When applying the RT option, rod extension length must be specified first and the thread extension length must be specified last. Also, consult factory for double-rod cylinders.

## Options

00 = No Options (or leave blank)  
 01 = Bumpers\*  
 02 = FKM Seals  
 03 = Magnet\*\*  
 04 = Bumpers with Magnet\* (see notes below for details)  
 05 = Pivot Bushing\*\*\*  
 06 = Pivot Bushing with Bumpers\* (see notes below for details)  
 07 = Pivot Bushing with FKM Seals  
 08 = Pivot Bushing with Magnet\* (see notes below for details)  
 09 = Pivot Bushing with Bumper and Magnet\* (see notes below for details)

See next page for a comprehensive list of options.

\* Bumpers available on 9/16" through 3" Bore Cylinders. See specific drawing/section and/or length adder charts for length adder information. (N/A on DG1 and DG2 types.)

\*\* Magnet available on 9/16" Bore. See specific drawing/section and/or length adder charts for length adder information.

\*\*\* Pivot Bushing standard on 5/16", 9/16", 2", 2-1/2", and 3" bore sizes. Optional on all other Rear Pivot cylinders.

## Fractional Inch Stroke

A = 0" Stroke  
 B = 1/16" Stroke  
 C = 1/8" Stroke  
 D = 3/16" Stroke  
 E = 1/4" Stroke  
 F = 5/16" Stroke  
 G = 3/8" Stroke  
 H = 7/16" Stroke  
 I = 1/2" Stroke  
 J = 9/16" Stroke  
 K = 5/8" Stroke  
 L = 11/16" Stroke  
 M = 3/4" Stroke  
 N = 13/16" Stroke  
 O = 7/8" Stroke  
 P = 15/16" Stroke

## Full Inch Stroke

00 = 0" Stroke  
 01 = 1" Stroke  
 02 = 2" Stroke  
 03 = 3" Stroke  
 32 = 32" Stroke (maximum)

See specific cylinder drawing/section at [www.asco.com](http://www.asco.com) for maximum stroke.

## How to Order

### Standard M Series Options

#### Standard M Series Options

- 01 = Bumpers
- 02 = FKM Seals
- 03 = Magnet
- 04 = Bumpers with Magnet
- 05 = Pivot Bushing
- 06 = Pivot Bushing with Bumpers
- 07 = Pivot Bushing with FKM Seals
- 08 = Pivot Bushing with Magnet
- 09 = Pivot Bushing with Bumper and Magnet
- 20 = Port Rotated with No Options
- 30 = Rod Wiper with No Options
- 31 = Rod Wiper with Bumpers
- 32\* = Rod Wiper with FKM Seals
- 33 = Rod Wiper with Magnet
- 34 = Rod Wiper with Bumpers and Magnet
- 35 = Rod Wiper with Pivot Bushing
- 36 = Rod Wiper with Bumpers and Pivot Bushing
- 37 = Rod Wiper with FKM Seals and Pivot Bushing
- 38 = Rod Wiper with Magnet and Pivot Bushing
- 39 = Rod Wiper with Bumpers, Magnet and Pivot Bushing
- 100 = Low Temp Seals
- 101 = Low Temp Seals and Bumpers
- 103 = Low Temp Seals and Magnet
- 104 = Low Temp Seals, Bumpers and Magnet
- 105 = Low Temp Seals and Pivot Bushing
- 106 = Low Temp Seals, Bumpers and Pivot Bushing
- 108 = Low Temp Seals, Magnet and Pivot Bushing
- 109 = Low Temp Seals, Bumpers, Magnet and Pivot Bushing
- 200 = PolyPak Rod Seal
- 300 = PolyPak Piston Seal
- 400 = PolyPak Piston and Rod Seal

Available with these mounting styles:  
D02, S02, R02, N02, DG2

Rod Wiper option available  
on 3/4" Bore and Up  
Not available with these mount  
styles: S01, S02, N01, N02

Low Temperature Seals option  
available on 7/16" Bore and Up

Visit product configurator  
on [www.emerson.com](http://www.emerson.com) for  
bore size availability

\* The rod wiper is Urethane except for 3/4", 1-1/16", 2"

#### Additional M Series Options

- 21 = Bumpers with Ports Rotated
- 22 = FKM Seals with Ports Rotated
- 23 = Magnet with Ports Rotated
- 24 = Bumpers with Magnet and Ports Rotated
- 25 = Pivot Bushing with Ports Rotated
- 26 = Bumpers with Pivot Bushing and Ports Rotated
- 28 = Magnet with Pivot Bushing and Ports Rotated
- 29 = Bumpers and Magnet with Pivot Bushing and Ports Rotated
- 40 = Ports Rotated with Wiper
- 45 = Pivot Bushing with Ports Rotated and Wiper
- 50 = Side Port
- 51 = Bumpers and Side Port
- 52 = FKM Seals and Side Port
- 53 = Magnet and Side Port
- 54 = Bumpers with Magnet and Side Port

Note: Please contact factory or your sales rep for compatibility on these  
additional options.

#### How To Order – Examples

##### **0438S01-01A**

0438 = 7/16" Bore  
S01 = Single Acting, Spring Return, Nose Mount  
01 = 1" Stroke  
A = .00" Fractional Stroke

##### **1062D02-03E-04**

1062 = 1-1/16" Bore  
D02 = Double Acting, Rear Pivot Mount  
03 = 3" Stroke  
E = .25" Fractional Stroke  
04 = Bumpers and Magnet

##### **1500D04-10I-01-1A02A**

1500 = 1-1/2" Bore  
D04 = Double Acting, Double Nose  
10 = 10" Stroke  
I = .50" Fractional Stroke  
01 = Bumpers  
1A02A = 2" Rod Extension

##### **2000DG2-20H-03-RT02A011**

2000 = 2" Bore  
DG2 = Double Acting, Adjustable Cushion, Rear Pivot Mount  
20 = 20" Stroke  
H = .4375 Fractional Stroke  
03 = Magnet  
RT02A011 = 2" Rod Extension and 1-1/2" Thread Extension

## Length Adders

## 01 Option (Bumpers)

Bore	Single Acting S01, S02, R01, R02 N01, N02	Double Acting D01, D02	Corrosion Resistant DC1, DC2	Double Acting D03
5/16	N/A	N/A	N/A	N/A
7/16	N/A	N/A	N/A	N/A
9/16	0.062	0.125	N/A	0.125
3/4	0.125	No Adder	0.281	0.25
7/8	No Adder	No Adder	N/A	0.25
1-1/16	0.125	0.125	0.375	0.25
1-1/4	No Adder	No Adder	N/A	0.25
1-1/2	No Adder	0.125	0.375	0.25
1-3/4	No Adder	No Adder	N/A	0.25
2	No Adder	0.250	N/A	0.25
2-1/2	N/A	0.062	N/A	N/A
3	N/A	0.062	N/A	N/A

## 03 Option (Magnet)

Bore	Single Acting S01, S02, R01, R02 N01, N02	Double Acting D01, D02, D03	Corrosion Resistant DC1, DC2
5/16	N/A	N/A	N/A
7/16	N/A	N/A	N/A
9/16	0.531	0.250	N/A
3/4	0.688	No Adder	0.281
7/8	0.531	No Adder	N/A
1-1/16	0.562	No Adder	0.250
1-1/4	0.531	No Adder	N/A
1-1/2	0.437 (R01 = 0.500)	No Adder	0.250
1-3/4	0.656	No Adder	N/A
2	0.461 (R01 & R02 = 0.714)	No Adder	N/A
2-1/2	N/A	No Adder	N/A
3	N/A	No Adder	N/A

## 04 Option (Bumper and Magnet)

Bore	Single Acting S01, S02, R01, R02 N01, N02	Double Acting D01, D02	Corrosion Resistant DC1, DC2	Double Acting D03
5/16	N/A	N/A	N/A	N/A
7/16	N/A	N/A	N/A	N/A
9/16	0.713	0.375	N/A	0.375
3/4	0.890	0.125	0.406	0.25
7/8	0.733	0.125	N/A	0.25
1-1/16	0.765 (R01 = 0.687)	0.125	0.375	0.25
1-1/4	0.734	0.125	N/A	0.25
1-1/2	0.765 (R01 = 0.827, N01 = 0.750)	0.250	0.500	0.25
1-3/4	0.735	0.000	N/A	0.25
2	0.789	0.250	N/A	0.25
2-1/2	N/A	0.062	N/A	N/A
3	N/A	0.062	N/A	N/A

## Nose Torque Specs

D01 Mount (Aluminum Nose Thread)		
Bore	Torque (In-Lbs)	Torque (Ft-Lbs)
5/16	60.0	5.0
7/16	84.0	7.0
9/16	84.0	7.0
3/4	336.0	28.0
7/8	336.0	28.0
1-1/16	336.0	28.0
1-1/4	480.0	40.0
1-1/2	480.0	40.0
1-3/4	1200.0	100.0
2	1440.0	120.0
2-1/2	1560.0	130.0
3	1680.0	140.0

DC1 Mount (Delrin Nose Thread)		
Bore	Torque (In-Lbs)	Torque (Ft-Lbs)
3/4	12.0	1.0
1-1/16	12.0	1.0
1-1/2	30.0	2.5

**5/16" Bore Cylinder****Single Acting Spring Return – 0313S01-00A****Front Nose Mount**

Standard Stroke Lengths:

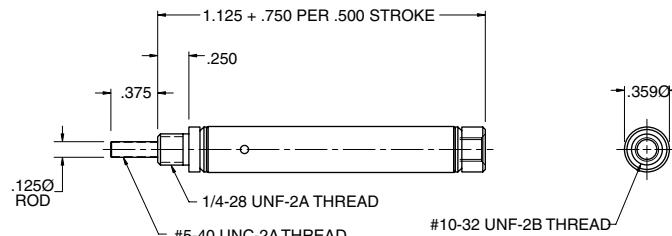
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 4"

Base Weight: .03 lbs., plus .02 lbs. per inch of stroke

\*Optional Accessories:

- M117001 Mounting Bracket
- M127001 Rod Clevis

**Single Acting Spring Return – 0313S02-00A****Double Nose or Rear Pivot Mount**

Standard Stroke Lengths:

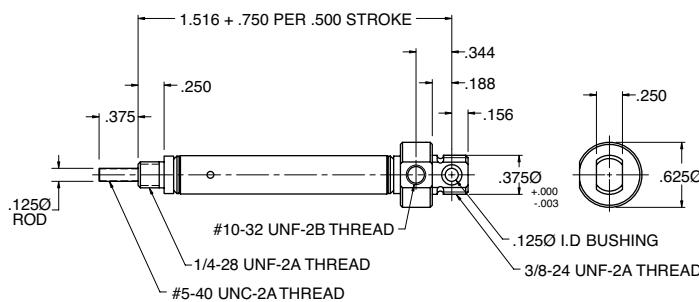
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 4"

Base Weight: .04 lbs., plus .02 lbs. per inch of stroke

\*Optional Accessories:

- M117001 Mounting Bracket (with front nose mount)
- M117002 Mounting Bracket (with rear nose mount)
- M129001 Pivot Bracket
- M127002 Rod Clevis

**Single Acting Spring Extend – 0313R01-00A****Front Nose Mount**

Standard Stroke Lengths:

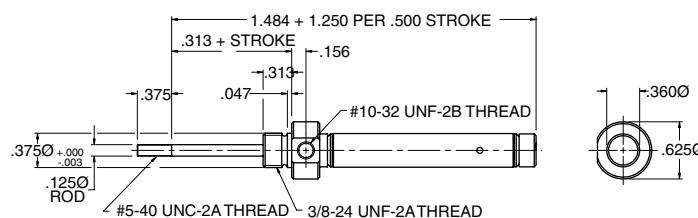
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 4"

Base Weight: .05 lbs., plus .03 lbs. per inch of stroke

\*Optional Accessories:

- M117002 Mounting Bracket
- M127001 Rod Clevis

**Single Acting Spring Extend – 0313R02-00A****Double Nose or Rear Pivot Mount**

Standard Stroke Lengths:

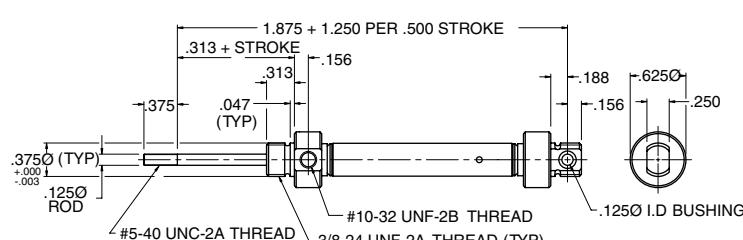
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 4"

Base Weight: .05 lbs., plus .03 lbs. per inch of stroke

\*Optional Accessories:

- M117002 Mounting Bracket
- M129001 Pivot Bracket
- M127001 Rod Clevis



**5/16" Bore Cylinder****Double Acting – 0313D01-00A****Front Nose Mount**

Standard- Stroke Lengths:

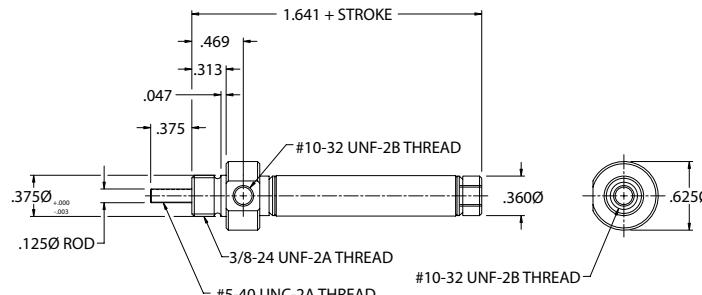
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 4"

Base Weight: .05 lbs., plus .01 lbs. per inch of stroke

\*Optional Accessories:

- M117002 Mounting Bracket
- M127001 Rod Clevis

**Double Acting – 0313D02-00A****Double Nose or Rear Pivot Mount**

Standard Stroke Lengths:

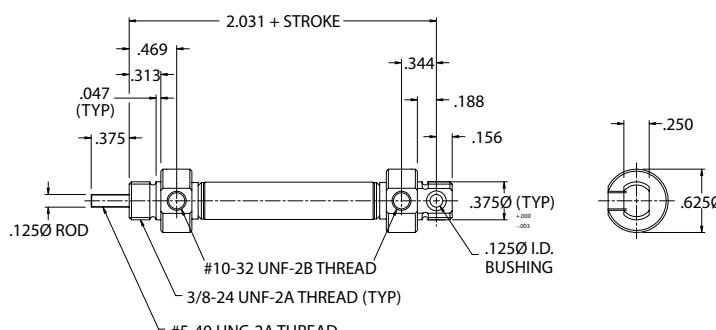
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 4"

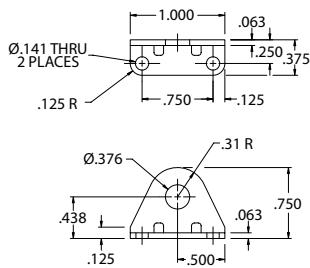
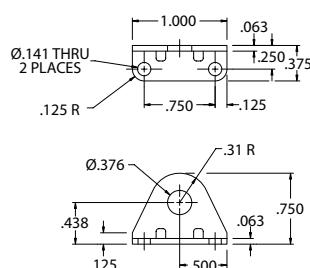
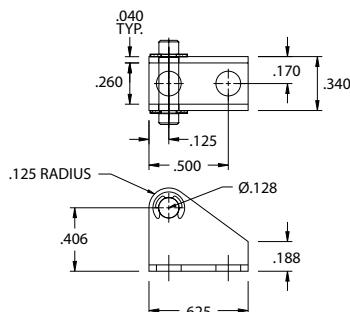
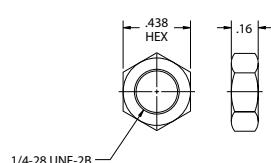
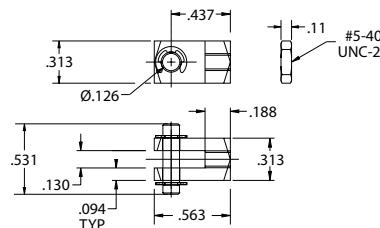
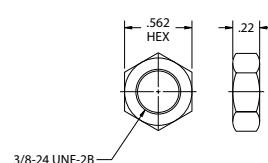
Base Weight: .06 lbs., plus .01 lbs. per inch of stroke

\*Optional Accessories:

- M117002 Mounting Bracket
- M129001 Pivot Bracket
- M127001 Rod Clevis

**5/16" Bore Cylinder Specifications**

- $(0.07) \times (\text{Air Line Pressure})$  = Approximate Force Exerted
- Enclosed spring force: .5 lbs. retracted, 1 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- FKM seals are optional on all cylinders for 200 °F to 350 °F applications.

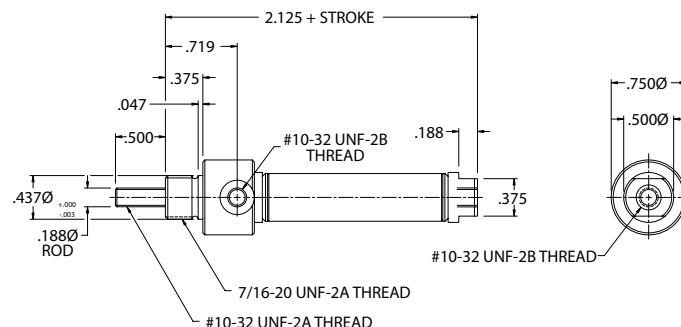
**5/16" Bore Accessories****Nose Mounting Brackets****M117001****M117002****Pivot Mount Bracket****M129001****Mounting Nuts****M190001****Rod Clevis****M127001****M190002**



**7/16" Bore Cylinder****Double Acting – 0438D01-00A****Front Nose Mount**Standard Stroke Lengths: **1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"**Maximum Stroke: **12"**Base Weight: **.07 lbs.**, plus **.02 lbs. per inch of stroke**

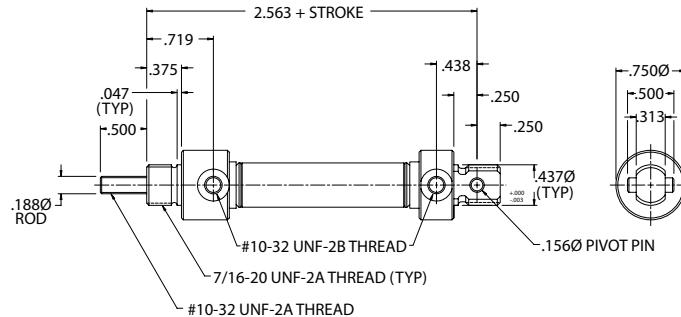
\*Optional Accessories:

- M117003 Mounting Bracket
- M127002 Rod Clevis

**Double Acting – 0438D02-00A****Rear Pivot Mount**Standard Stroke Lengths: **1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"**Maximum Stroke: **12"**Base Weight: **.08 lbs.**, plus **.02 lbs. per inch of stroke**

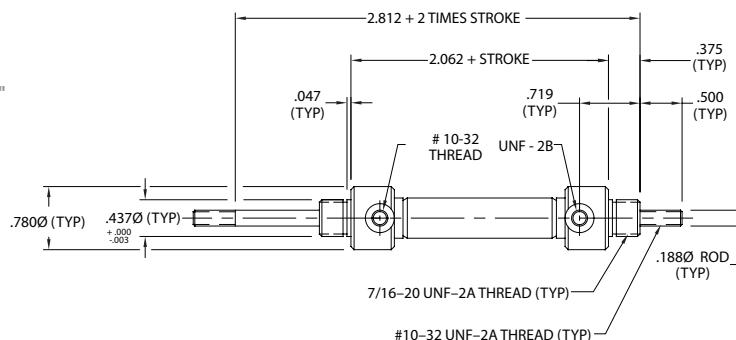
\*Optional Accessories:

- M029002 Pivot Bracket
- M127002 Rod Clevis

**Double Acting Through Rod****Double Nose Mount – 0438D03-00A**Standard Stroke Lengths: **1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"**Maximum Stroke: **12"**Base Weight: **.16 lbs.**, plus **.03 lbs. per inch of stroke**

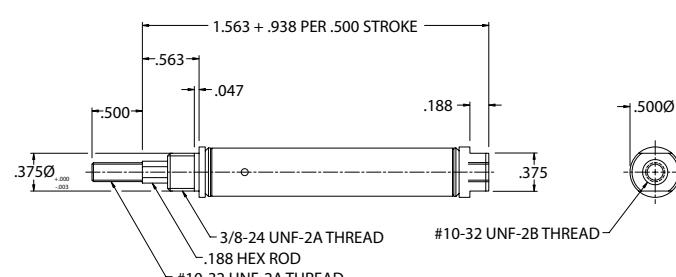
\*Optional Accessories:

- M117003 Nose Mount Bracket
- M127002 Rod Clevis
- M190003 Mounting Nut
- M190011 Rod Nut

**Single Acting Spring Return – 0438N01-00A****Front Nose Mount Non-Rotating**Standard Stroke Lengths: **1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"**Maximum Stroke: **6"**Base Weight: **.04 lbs.**, plus **.04 lbs. per inch of stroke**

\*Optional Accessories:

- M117004 Mounting Bracket
- M127002 Rod Clevis



## 7/16" Bore Cylinder

## Single Acting Spring Return – 0438N02-00A

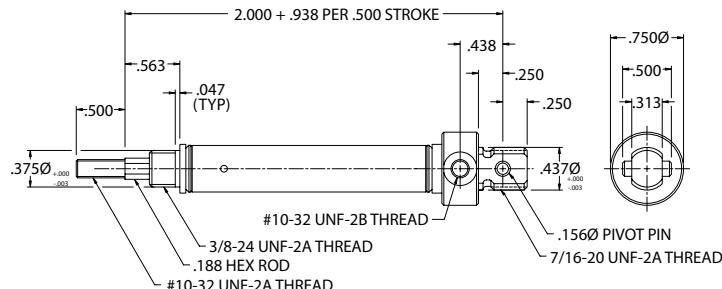
## Rear Pivot Mount Non-Rotating

Standard Stroke Lengths: **1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"**

Maximum Stroke: 6"

Base Weight: .04 lbs., plus .04 lbs. per inch of stroke

- M029002 Pivot Bracket
- M127002 Rod Clevis

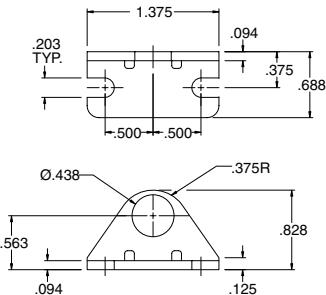


## 7/16" Bore Cylinder Specifications

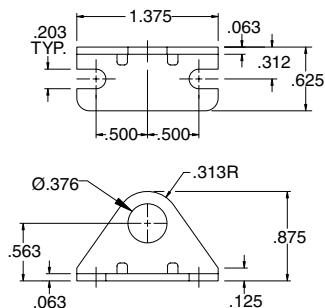
- $(0.15) \times (\text{Air Line Pressure}) = \text{Approximate Force Extended}$
- Enclosed spring force: 1 lbs. retracted, 2 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- FKM seals are optional on all cylinders for 200 °F to 350 °F applications.

## 7/16" Bore Accessories

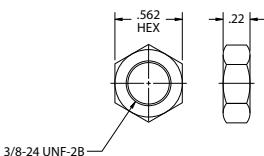
## Nose Mounting Brackets M117003



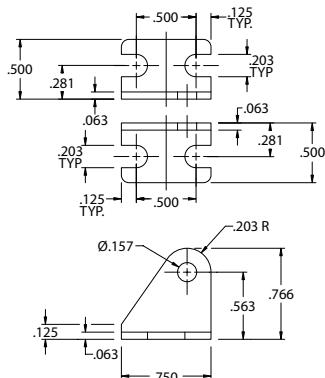
M117004



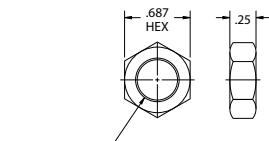
## Mounting Nuts M190002



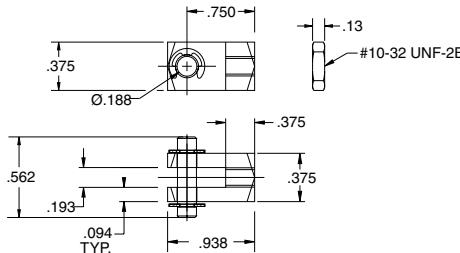
## Pivot Mount Bracket M029002



M190003



Rod Clevis  
M127002



**9/16" Bore Cylinder****Single Acting Spring Return – 0563S01-00A**  
Front Nose Mount

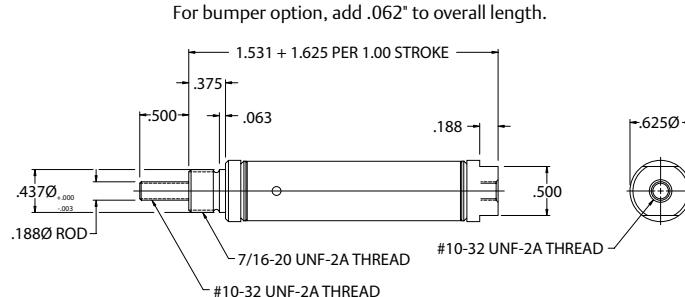
Standard Stroke Lengths:  
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .06 lbs., plus .05 lbs. per inch of stroke

\*Optional Accessories:

- M117003 Mounting Bracket
- M127002 Rod Clevis

**Single Acting Spring Return – 0563S02-00A**  
Double Nose or Rear Pivot Mount

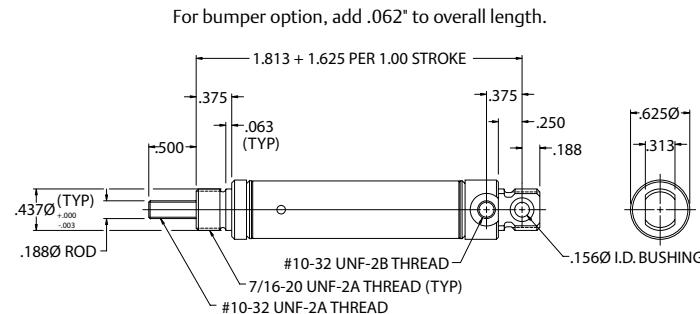
Standard Stroke Lengths:  
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .06 lbs., plus .05 lbs. per inch of stroke

\*Optional Accessories:

- M117003 Mounting Bracket
- M129002 Pivot Bracket
- M127002 Rod Clevis

**Single Acting Spring Extend – 0563R01-00A**  
Front Nose Mount

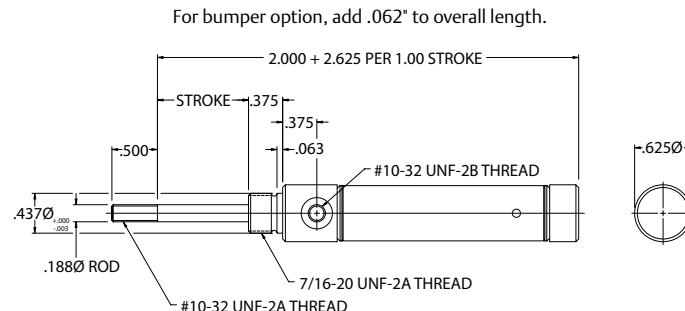
Standard Stroke Lengths:  
1/2", 1", 1-1/2", 2", 2-1/2", 3"

Maximum Stroke: 6"

Base Weight: .08 lbs., plus .04 lbs. per inch of stroke

\*Optional Accessories:

- M117003 Mounting Bracket
- M127002 Rod Clevis

**Single Acting Spring Extend – 0563R02-00A**  
Double Nose or Rear Pivot Mount

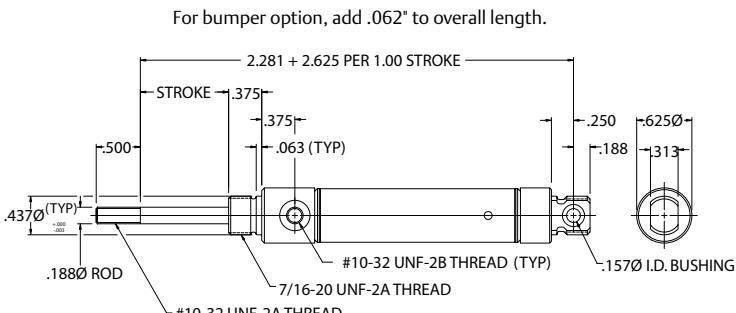
Standard Stroke Lengths:  
1/2", 1", 1-1/2", 2", 2-1/2", 3"

Maximum Stroke: 6"

Base Weight: .08 lbs., plus .04 lbs. per inch of stroke

\*Optional Accessories:

- M117003 Mounting Bracket
- M129002 Pivot Bracket
- M127002 Rod Clevis



**9/16" Bore Cylinder****Double Acting – 0563D01-00A****Front Nose Mount**

Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

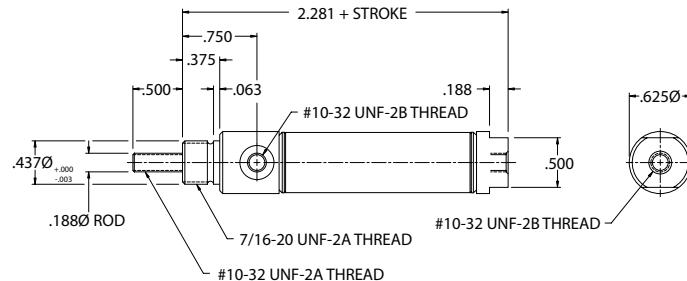
Maximum Stroke: 12"

Base Weight: .09 lbs., plus .02 lbs. per inch of stroke

\*Optional Accessories:

- M117003 Mounting Bracket
- M127002 Rod Clevis

For bumper option, add .125" to overall length.  
For magnetic band option, add .250" to overall length.

**Double Acting – 0563D02-00A****Double Nose or Rear Pivot Mount**

Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

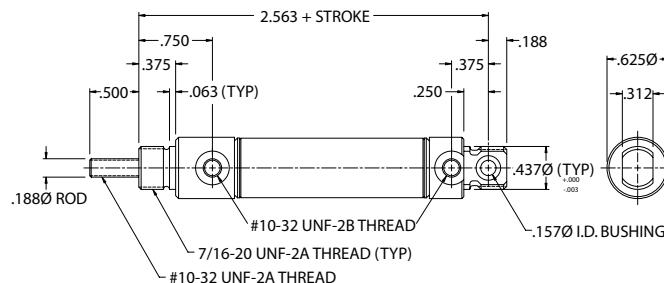
Maximum Stroke: 12"

Base Weight: .09 lbs., plus .02 lbs. per inch of stroke

\*Optional Accessories:

- M117003 Mounting Bracket
- M129002 Pivot Bracket
- M127002 Rod Clevis

For bumper option, add .125" to overall length.  
For magnetic band option, add .250" to overall length.

**Double Acting Through Rod Double Nose Mount – 0563D03-00A**

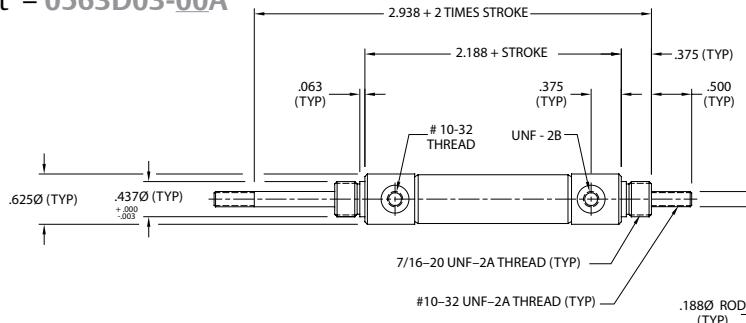
Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 24"

Base Weight: .16 lbs., plus .03 lbs. per inch of stroke

\*Optional Accessories:

- M029002 Pivot Bracket
- M127002 Rod Clevis
- M117003 Nose Mount Bracket
- M190003 Mounting Nut
- M190001 Rod Nut

**Single Acting Spring Return – 0563N01-00A****Front Nose Mount Non-Rotating**

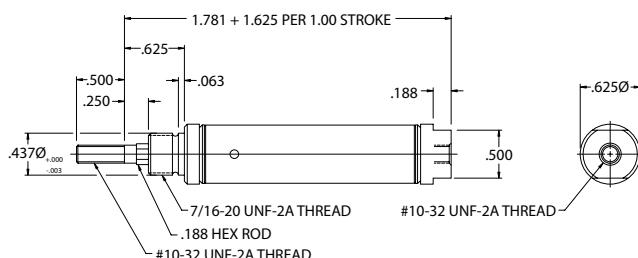
Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .06 lbs., plus .05 lbs. per inch of stroke

\*Optional Accessories:

- M117003 Mounting Bracket
- M127002 Rod Clevis



## 9/16" Bore Cylinder

**Single Acting Spring Return – 0563N02-00A**  
**Rear Pivot Mount Non-Rotating**

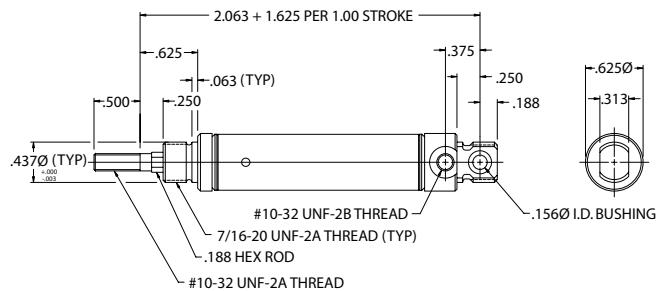
Standard Stroke Lengths: 1/2", **1"**, 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .06 lbs., plus .05 lbs. per inch of stroke

\*Optional Accessories:

- M117003 Mounting Bracket
- M129002 Pivot Bracket
- M127002 Rod Clevis



## Double Acting - 0563D03-00A

## Through Rod

### Standard Stroke Lengths:

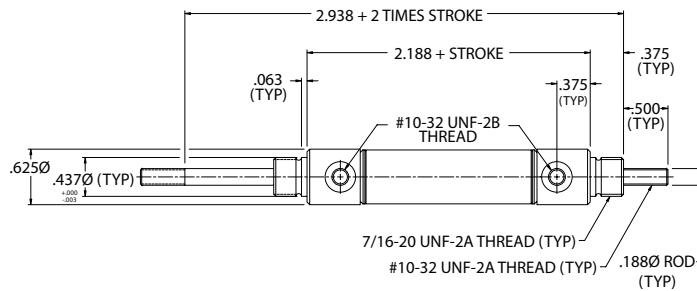
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

Base Weight: .16 lbs., plus .03 lbs. per inch of stroke

\*Optional Accessories:

- M117003 Mounting Bracket
- M127002 Rod Clevis

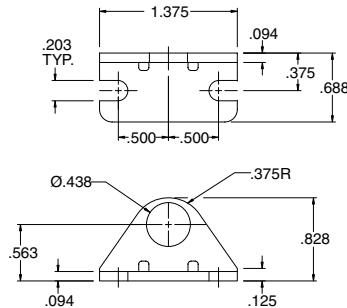


## 9/16" Bore Cylinder Specifications

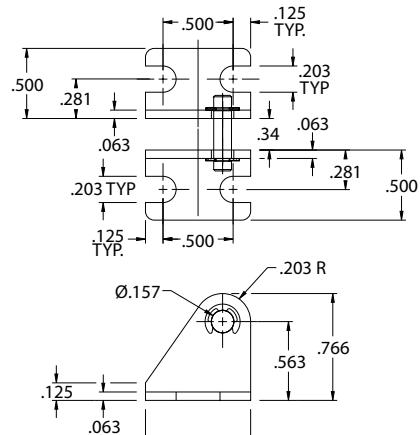
- $(0.25) \times (\text{Air Line Pressure})$  = Approximate Force Extended
- Enclosed spring force: 2 lbs. retracted, 4 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- FKM seals are optional on all cylinders for 200 °F to 350 °F applications.
- Bumpers are optional on all 9/16" bore cylinders (except in combination with FKM option).
- Bumper option on single acting cylinders adds .062" to overall length.
- Bumper option on double acting cylinders adds .125" to overall length.
- Magnetic band option on 9/16" bore double acting cylinders adds .250" to overall length.

## 9/16" Bore Accessories

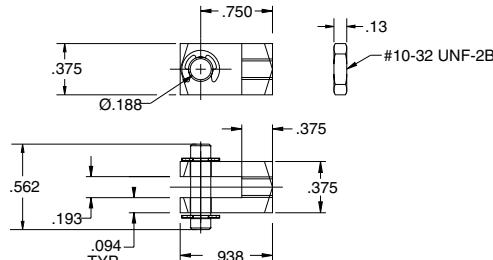
Nose Mounting Bracket  
M117003



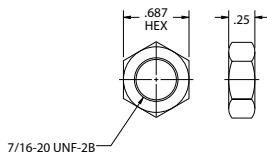
Pivot Mount Bracket  
M129002



Rod Clevis  
M127002



Mounting Nuts  
M190003



**3/4" Bore Cylinder****Single Acting Spring Return – 0750S01-00A****Front Nose Mount**

Standard Stroke Lengths:

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

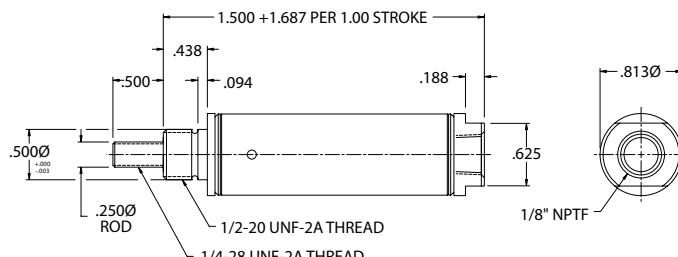
Maximum Stroke: 6"

Base Weight: .10 lbs., plus .08 lbs. per inch of stroke

\*Optional Accessories:

- M117006 Mounting Bracket
- M127003 Rod Clevis

For magnet option, add .687 to overall length.

**Single Acting Spring Return – 0750S02-00A****Rear Pivot Mount**

Standard Stroke Lengths:

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

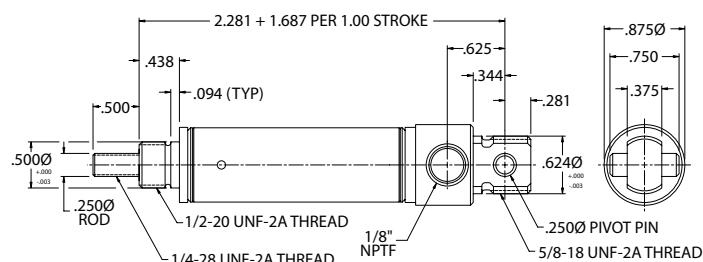
Maximum Stroke: 6"

Base Weight: .13 lbs., plus .08 lbs. per inch of stroke

\*Optional Accessories:

- M029003 Pivot Bracket
- M127003 Rod Clevis

For magnet option, add .687 to overall length.

**Single Acting Spring Extend – 0750R01-00A****Front Nose Mount**

Standard Stroke Lengths:

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

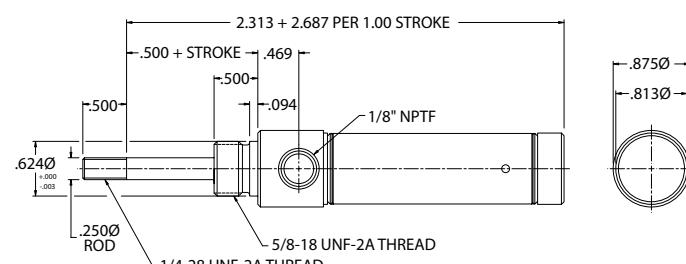
Maximum Stroke: 6"

Base Weight: .18 lbs., plus .07 lbs. per inch of stroke

\*Optional Accessories:

- M117005 Mounting Bracket
- M127003 Rod Clevis

For magnet option, add .687 to overall length.

**Single Acting Spring Extend – 0750R02-00A****Rear Pivot Mount**

Standard Stroke Lengths:

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

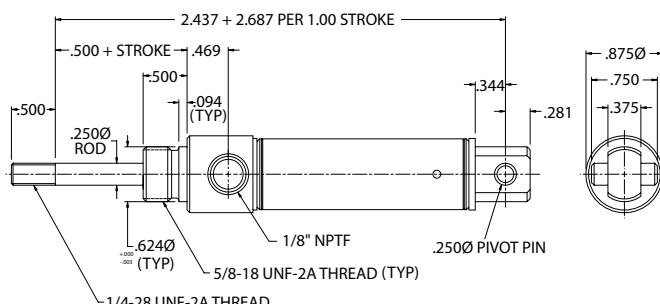
Maximum Stroke: 6"

Base Weight: .18 lbs., plus .07 lbs. per inch of stroke

\*Optional Accessories:

- M029003 Pivot Bracket
- M127003 Rod Clevis

For magnet option, add .687 to overall length.





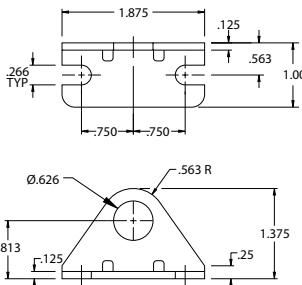


## 3/4" Bore Cylinder Specifications

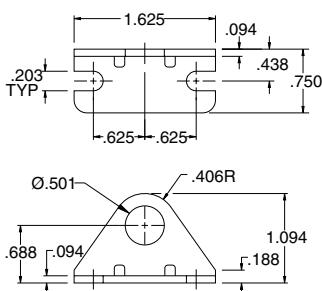
- $(0.4) \times (\text{Air Line Pressure}) = \text{Approximate Force Exerted}$
- Enclosed spring force: 3 lbs. retracted, 6 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- FKM seals are optional on all cylinders for 200 °F to 350 °F applications.
- Bumpers are optional on all 3/4" bore cylinders (except in combination with FKM option).
- Magnetic piston optional on all double acting 3/4" bore cylinders (except in combination with FKM option).
- Bumper option on 3/4" bore single acting cylinders adds .125" to overall length, but does not affect the overall length of double acting cylinders.

## 3/4" Bore Accessories

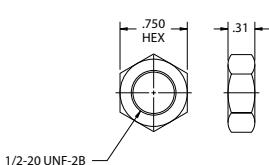
## Nose Mounting Brackets M117005



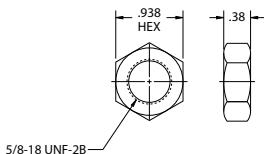
M117006



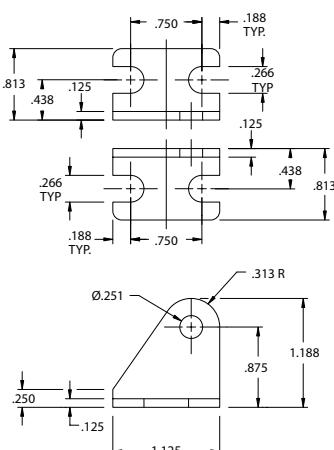
## Mounting Nuts M190004



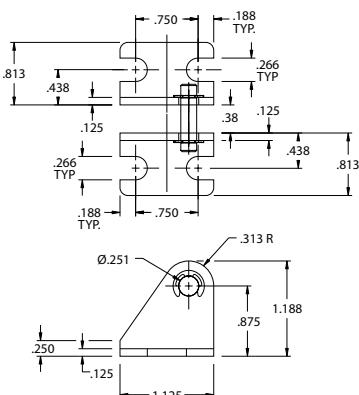
M190005



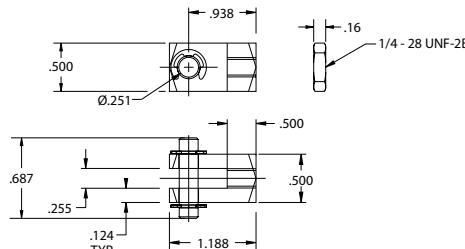
## Pivot Mount Bracket M029003



M129003



Rod Clevis  
M127003



**7/8" Bore Cylinder****Single Acting Spring Return – 0875S01-00A****Front Nose Mount**

Standard Stroke Lengths:

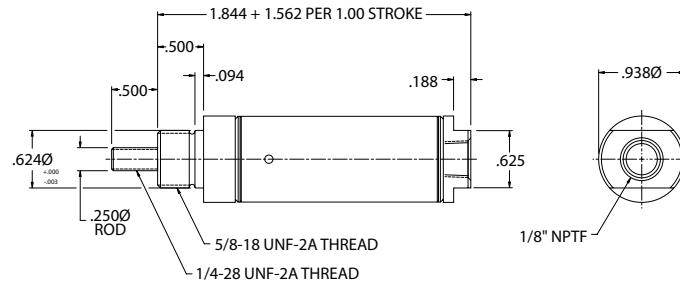
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .17 lbs., plus .09 lbs. per inch of stroke

\*Optional Accessories:

- M117005 Mounting Bracket
- M127003 Rod Clevis

**Single Acting Spring Return – 0875S02-00A****Rear Pivot Mount**

Standard Stroke Lengths:

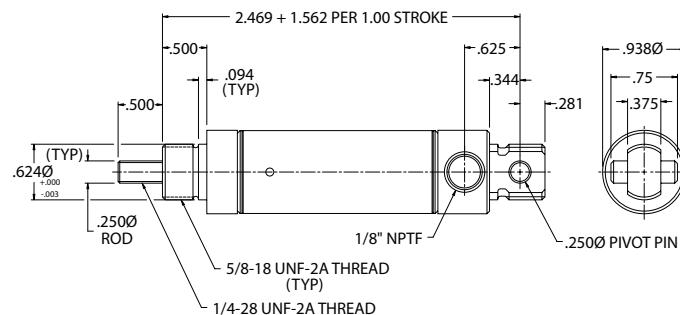
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .17 lbs., plus .09 lbs. per inch of stroke

\*Optional Accessories:

- M029003 Pivot Bracket
- M127003 Rod Clevis

**Single Acting Spring Extend – 0875R01-00A****Front Nose Mount**

Standard Stroke Lengths:

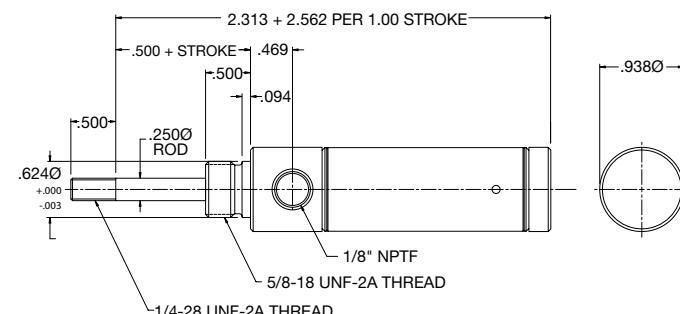
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .20 lbs., plus .09 lbs. per inch of stroke

\*Optional Accessories:

- M117005 Mounting Bracket
- M127003 Rod Clevis

**Single Acting Spring Extend – 0875R02-00A****Rear Pivot Mount**

Standard Stroke Lengths:

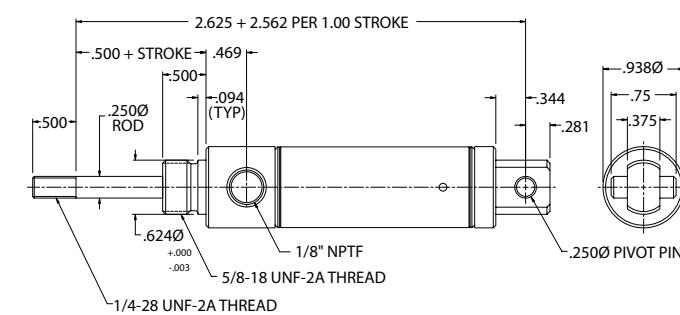
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .20 lbs., plus .09 lbs. per inch of stroke

\*Optional Accessories:

- M029003 Pivot Bracket
- M127003 Rod Clevis



**7/8" Bore Cylinder****Double Acting – 0875D01-00A****Front Nose Mount**

Standard Stroke Lengths: 1/2", 1", 1-1/2" 2", 2-1/2", 3", 4", 5", 6"

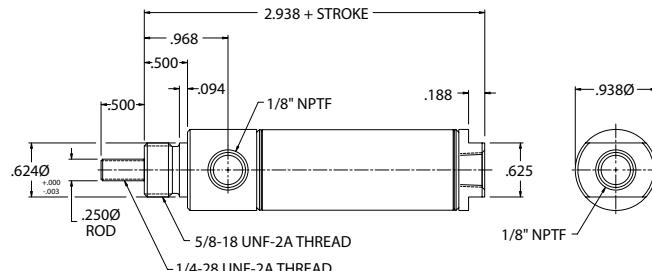
Maximum Stroke: 32"

Base Weight: .25 lbs., plus .03 lbs. per inch of stroke

\*Optional Accessories:

- M117005 Mounting Bracket
- M127003 Rod Clevis

For bumper and magnet option on 7/8" bore double acting cylinders adds .125" to overall length.

**Double Acting – 0875D02-00A****Rear Pivot Mount**

Standard Stroke Lengths: 1/2", 1", 1-1/2" 2", 3", 4", 5", 6"

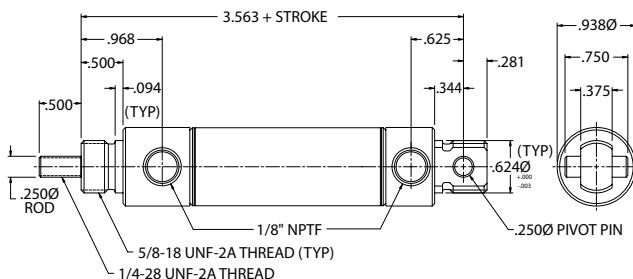
Maximum Stroke: 32"

Base Weight: .32 lbs., plus .03 lbs. per inch of stroke

\*Optional Accessories:

- M029003 Pivot Bracket
- M127003 Rod Clevis

For bumper and magnet option on 7/8" bore double acting cylinders adds .125" to overall length.

**Double Acting – 0875D03-00A****Through Rod Double Nose Mount**

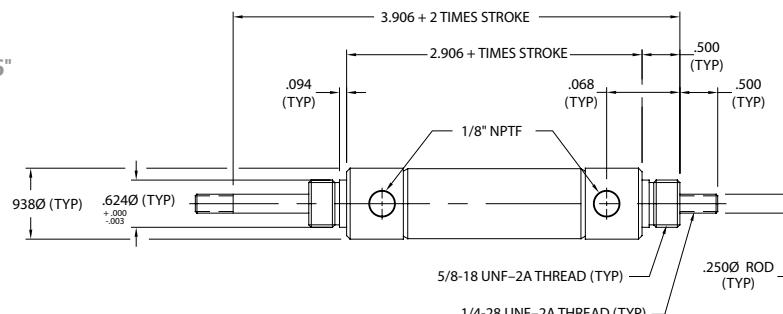
Standard Stroke Lengths: 1/2", 1", 1-1/2" 2", 3", 4", 5", 6"

Maximum Stroke: 32"

Base Weight: .39 lbs., plus .04 lbs. per inch of stroke

\*Optional Accessories:

- M029002 Pivot Bracket
- M127003 Rod Clevis
- M117005 Nose Mount Bracket
- M190005 Mounting Nut
- M190001 Rod Nut

**Double Acting – 0875D04-00A****Double Nose or Rear Pivot Mount**

Standard Stroke Lengths: 1/2", 1", 1-1/2" 2", 2-1/2", 3", 4", 5", 6"

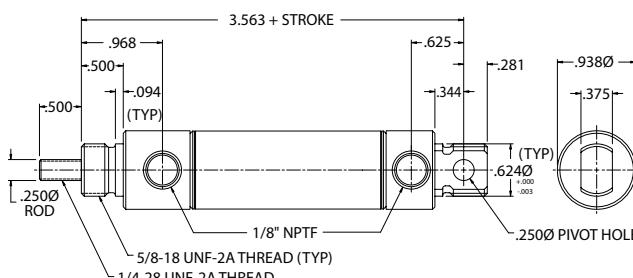
Maximum Stroke: 32"

Base Weight: .32 lbs., plus .03 lbs. per inch of stroke

\*Optional Accessories:

- M117005 Mounting Bracket
- M129003 Pivot Bracket
- M127003 Rod Clevis

For bumper and magnet option on 7/8" bore double acting cylinders adds .125" to overall length.



## 7/8" Bore Cylinder

## Single Acting Spring Return – 0875N01-00A

## Front Nose Mount Non-Rotating

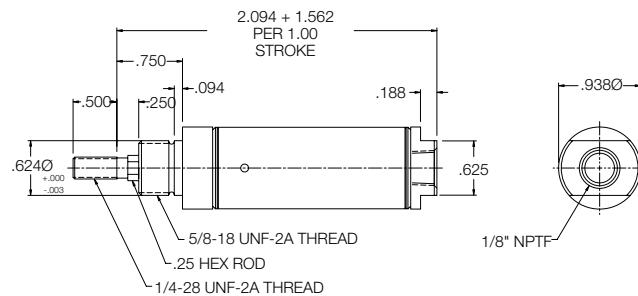
Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .17 lbs., plus .09 lbs. per inch of stroke

\*Optional Accessories:

- M117005 Mounting Bracket
- M127003 Rod Clevis



## Single Acting Spring Return – 0875N02-00A

## Rear Pivot Mount Non-Rotating

### Standard Stroke Lengths:

1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

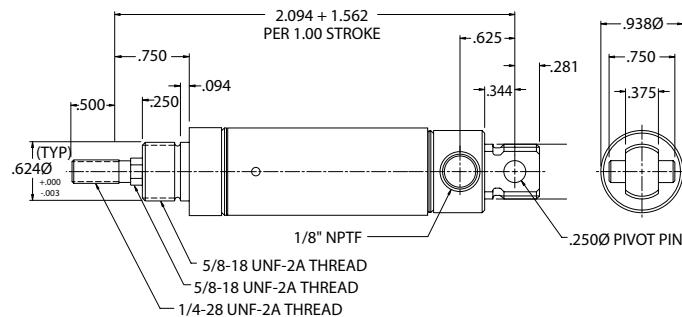
Maximum Stroke: 6"

Base Weight: .17 lbs., plus .09 lbs. per inch of stroke

\*Optional Accessories:

#### Optional Accessories:

- M029003 Pivot Bracket
- M127003 Rod Clevis

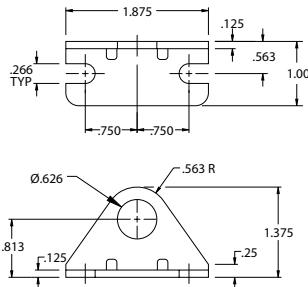


## 7/8" Bore Cylinder Specifications

- $(0.6) \times (\text{Air Line Pressure}) = \text{Approximate Force Exerted}$
- Enclosed spring force: 3 lbs. retracted, 6 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- FKM seals are optional on all cylinders for 200 °F to 350 °F applications.
- Bumpers are optional on all 7/8" bore cylinders (except in combination with FKM option).
- Magnetic piston optional on all double acting 7/8" bore cylinders (except in combination with FKM option).
- Bumper and magnet option on 7/8" bore double acting cylinders adds .125" to overall length.

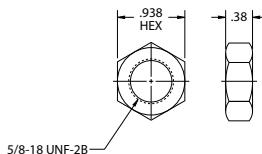
## 7/8" Bore Accessories

## Nose Mounting Brackets M117005

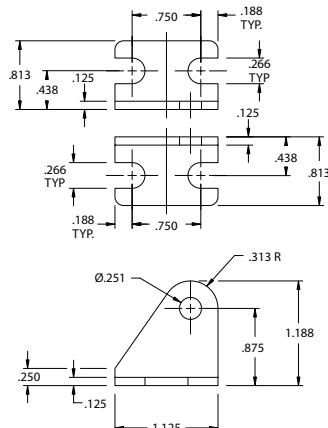


# Mounting Nuts

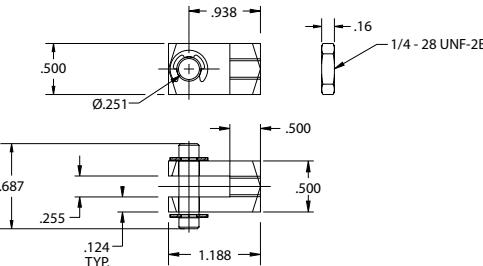
## M190005



## Pivot Mount Bracket M029003



Rod Clevis  
M127003





## 1-1/16" Bore Cylinder

### Single Acting Spring Extend – 1062R02-00A Rear Pivot Mount

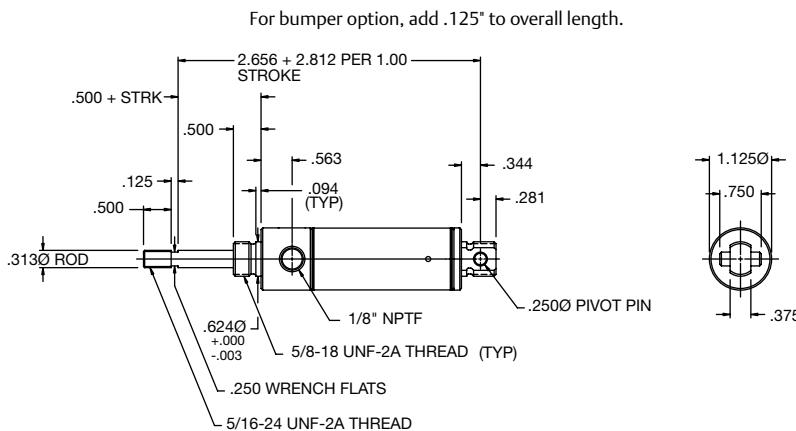
Standard Stroke Lengths:  
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .22 lbs., plus .16 lbs. per inch of stroke

\*Optional Accessories:

- M029003 Pivot Bracket
- M127004 Rod Clevis



### Double Acting – 1062D01-00A Front Nose Mount

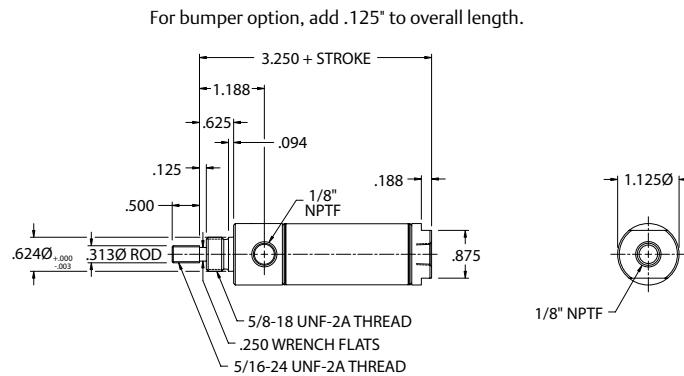
Standard Stroke Lengths:  
1/2", 1", 1-1/2" 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

Base Weight: .33 lbs., plus .05 lbs. per inch of stroke

\*Optional Accessories:

- M117005 Mounting Bracket
- M127004 Rod Clevis



### Double Acting – 1062D02-00A Rear Pivot Mount

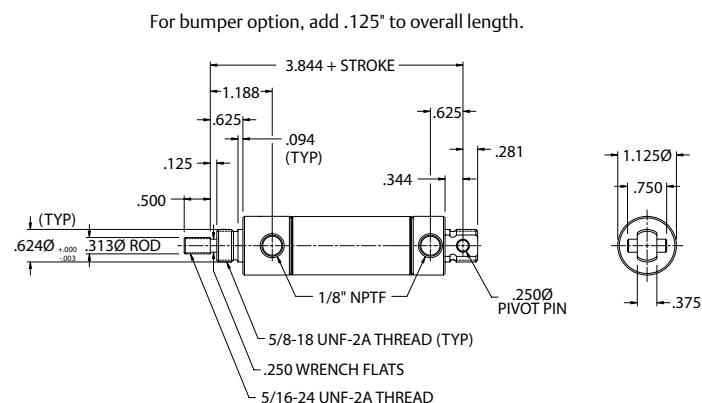
Standard Stroke Lengths:  
1/2", 1", 1-1/2" 2", 2-1/2", 3", 4", 5", 6", 7",  
8", 9", 10", 11", 12"

Maximum Stroke: 32"

Base Weight: .33 lbs., plus .05 lbs. per inch of stroke

\*Optional Accessories:

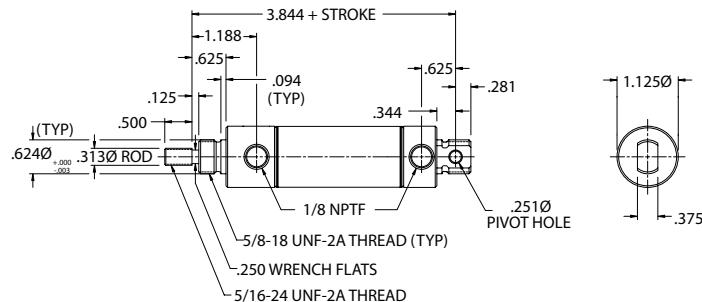
- M117005 Mounting Bracket
- M029003 Pivot Bracket
- M127004 Rod Clevis



**1-1/16" Bore Cylinder****Double Acting – 1062D04-00A**  
**Double Nose or Rear Pivot Mount****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: 32"****Base Weight: .33 lbs., plus .05 lbs. per inch of stroke****\*Optional Accessories:**

- M117005 Mounting Bracket
- M129003 Pivot Bracket
- M127004 Rod Clevis

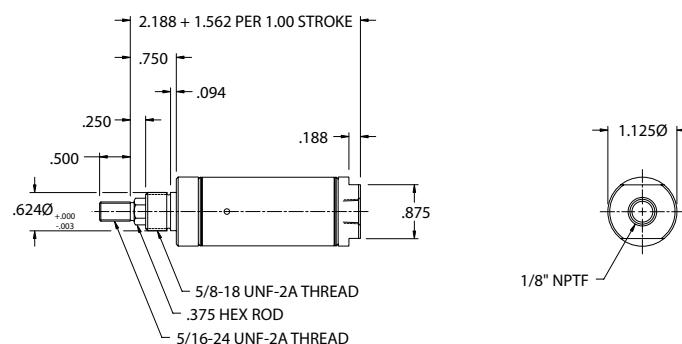
For bumper option, add .125" to overall length.

**Single Acting Spring Return – 1062N01-00A**  
**Front Nose Mount Non-Rotating****Standard Stroke Lengths:**

1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

**Maximum Stroke: 6"****Base Weight: .25 lbs., plus .12 lbs. per inch of stroke****\*Optional Accessories:**

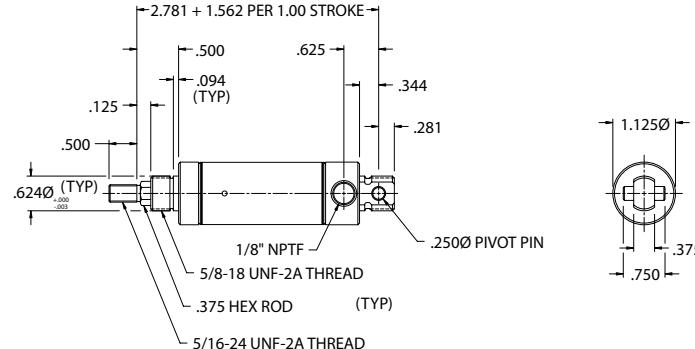
- M117005 Mounting Bracket
- M127004 Rod Clevis

**Single Acting Spring Return – 1062N02-00A**  
**Rear Pivot Mount Non-Rotating****Standard Stroke Lengths:**

1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

**Maximum Stroke: 6"****Base Weight: .25 lbs., plus .12 lbs. per inch of stroke****\*Optional Accessories:**

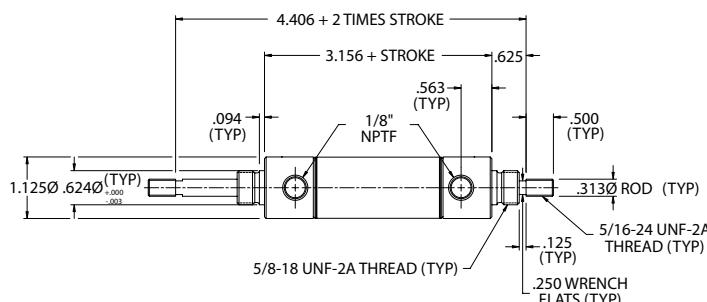
- M029003 Pivot Bracket
- M127004 Rod Clevis

**Double Acting – 1062D03-00A**  
**Through Rod****Standard Stroke Lengths:**

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

**Maximum Stroke: 12"****Base Weight: .48 lbs., plus .07 lbs. per inch of stroke****\*Optional Accessories:**

- M117005 Mounting Bracket
- M127004 Rod Clevis



NOTE: FOR D13 MOUNTING STYLE, SUBTRACT .406 FROM THE D03 BASE.

**1-1/16" Bore Cylinder****Double Acting – 1062DH3-00A  
Through Rod Hollow Rod**

Standard Stroke Lengths:

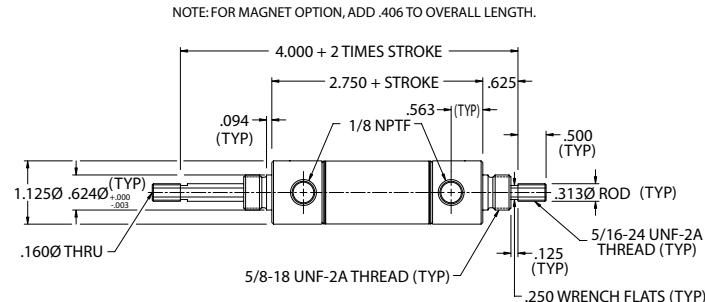
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

Base Weight: .47 lbs., plus .07 lbs. per inch of stroke

\*Optional Accessories:

- M117005 Mounting Bracket
- M127004 Rod Clevis

**Double Acting – 1062D05-00A  
Front Block Mount**

Standard Stroke Lengths:

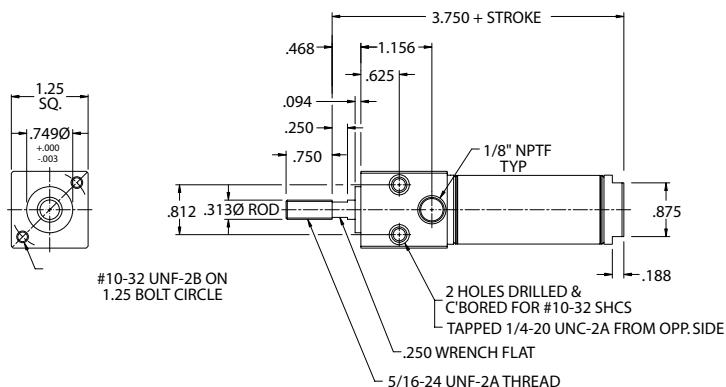
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

Base Weight: .49 lbs., plus .05 lbs. per inch of stroke

\*Optional Accessories:

- M127004 Rod Clevis

**Bore Double Acting – 1062D06-00A  
Trunnion Mount**

Standard Stroke Lengths:

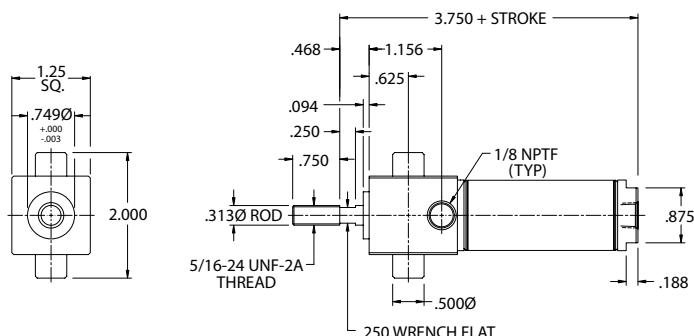
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

Base Weight: .49 lbs., plus .05 lbs. per inch of stroke

\*Optional Accessories:

- M029006 Pivot Bracket
- M127004 Rod Clevis



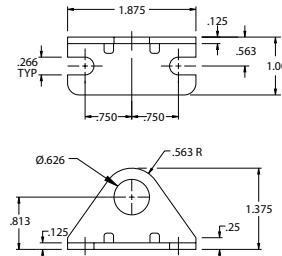
## 1-1/16" Bore Cylinder Specifications

- $(0.9) \times (\text{Air Line Pressure})$  = Approximate Force Exerted
- Enclosed spring force: 3 lbs. retracted, 6 lbs. extended. Note that R01 and R02 is 6 lbs. retracted, 12 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- FKM seals are optional on all cylinders for 200 °F to 350 °F applications.
- Bumpers are optional on all 1-1/16" bore cylinders (except in combination with FKM option).
- Magnetic piston optional on all double acting 1-1/16" bore cylinders (except in combination with FKM option).
- For bumper option, add .125" to overall length.
- Magnetic piston option on DH3 mount adds .406 to overall length. For D03 Mount, add .25" to overall length.

## 1-1/16" Bore Accessories

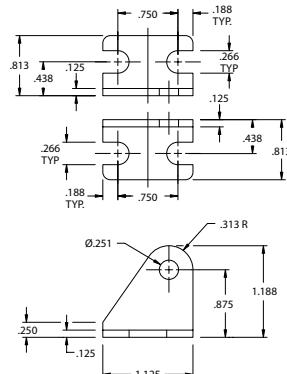
Nose Mounting Brackets

M117005



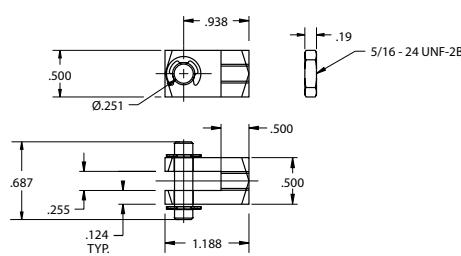
Pivot Mount Bracket

M029003



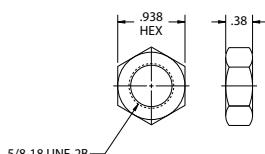
Rod Clevis

M127004

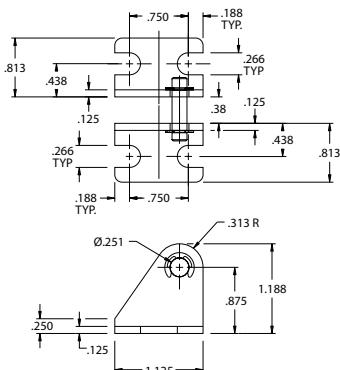


Mounting Nuts

M190005



M129003



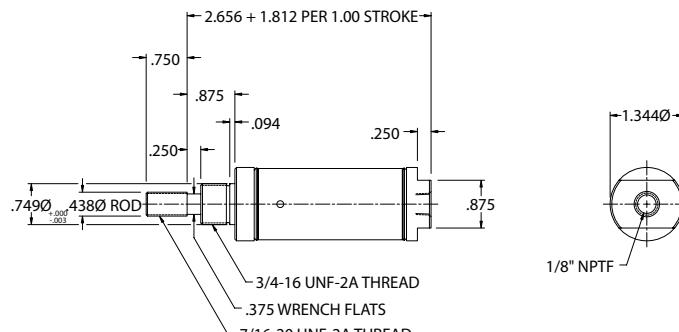
**1-1/4" Bore Cylinder****Single Acting Spring Return – 1250S01-00A**  
Front Nose MountStandard Stroke Lengths:  
1/2", 1", 1-1/2" 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .39 lbs., plus .21 lbs. per inch of stroke

\*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis

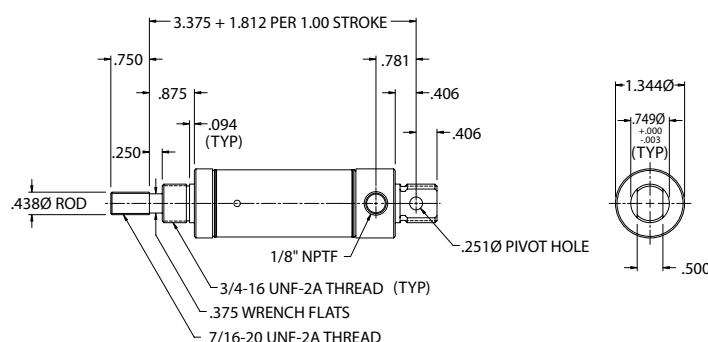
**Single Acting Spring Return – 1250S02-00A**  
Double Nose or Rear Pivot MountStandard Stroke Lengths:  
1/2", 1", 1-1/2" 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .53 lbs., plus .21 lbs. per inch of stroke

\*Optional Accessories:

- M117007 Mounting Bracket
- M229003 Pivot Bracket
- M127005 Rod Clevis

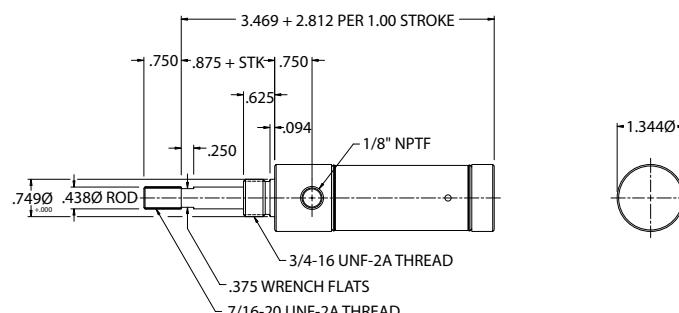
**Single Acting Spring Extend – 1250R01-00A**  
Front Nose MountStandard Stroke Lengths:  
1/2", 1", 1-1/2" 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .50 lbs., plus .21 lbs. per inch of stroke

\*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis

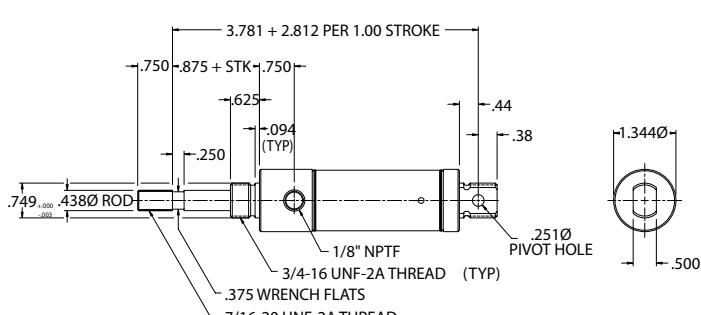
**Single Acting Spring Extend – 1250R02-00A**  
Double Nose or Rear Pivot MountStandard Stroke Lengths:  
1/2", 1", 1-1/2" 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .57 lbs., plus .21 lbs. per inch of stroke

\*Optional Accessories:

- M117007 Mounting Bracket
- M229003 Pivot Bracket
- M127005 Rod Clevis





**1-1/4" Bore Cylinder****Double Acting – 1250D03-00A  
Through Rod**

Standard Stroke Lengths:

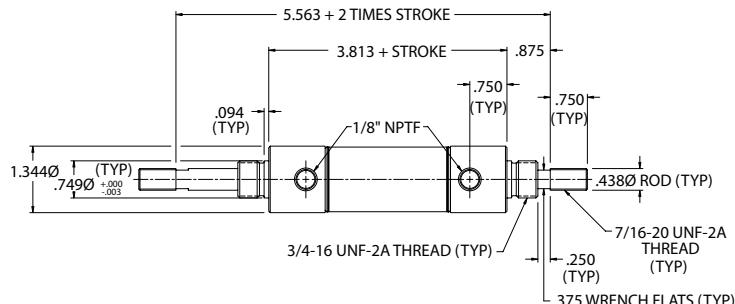
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

Base Weight: .98 lbs., plus .12 lbs. per inch of stroke

\*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis

**Double Acting – 1250DH3-00A  
Through Rod Hollow Rod**

Standard Stroke Lengths:

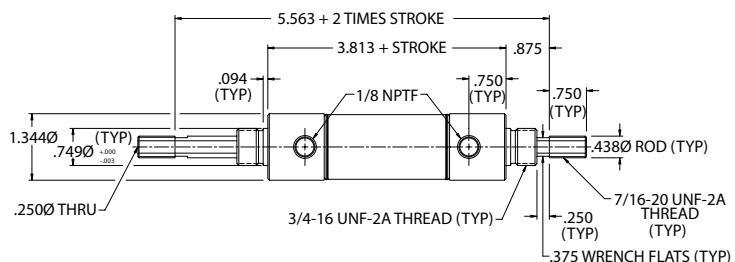
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

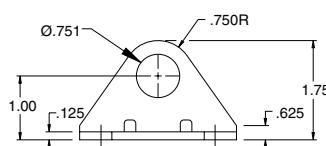
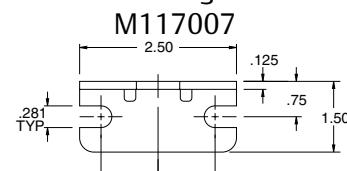
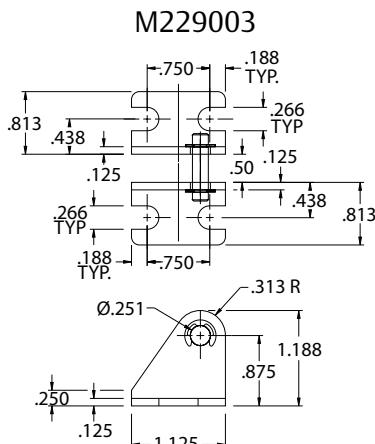
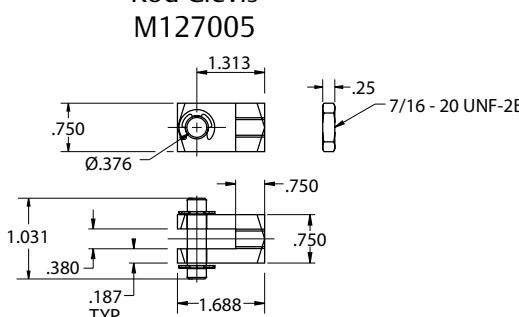
Base Weight: .97 lbs., plus .12 lbs. per inch of stroke

\*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis

**1-1/4" Bore Cylinder Specifications**

- (1.2) x (Air Line Pressure) = Approximate Force Exerted
- Enclosed spring force: 7.5 lbs. retracted, 15 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- FKM seals are optional on all cylinders for 200 °F to 350 °F applications.
- Bumpers are optional on all 1-1/4" bore cylinders (except in combination with FKM option).
- Magnetic piston optional on all double acting 1-1/4" bore cylinders (except in combination with FKM option).
- Bumper and magnet option on 1-1/4" bore double acting cylinders adds .125" to overall length.

**1-1/4" Bore Accessories****Nose Mounting Brackets**Mounting Nuts  
M190006**Pivot Mount Bracket****Rod Clevis**Rod Clevis  
M127005



**1-1/2" Bore Cylinder****Double Acting – 1500D01-00A****Front Nose Mount**

Standard Stroke Lengths:

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

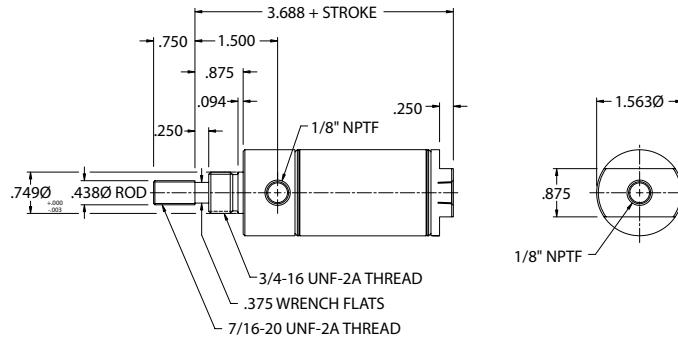
Maximum Stroke: 12"

Base Weight: .69 lbs., plus .08 lbs. per inch of stroke

\*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis

For bumper and magnetic band option add .250" to overall length.

**Double Acting – 1500D02-00A****Rear Pivot Mount**

Standard Stroke Lengths:

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

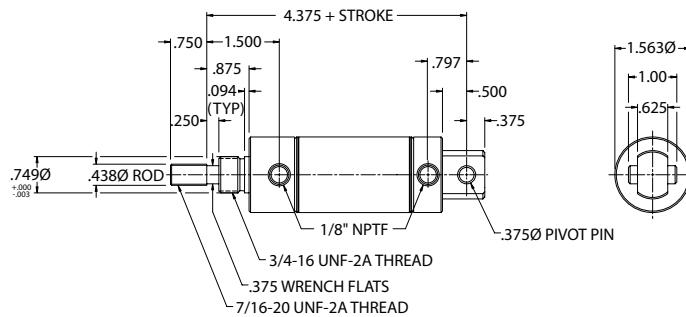
Maximum Stroke: 32"

Base Weight: .73 lbs., plus .08 lbs. per inch of stroke

\*Optional Accessories:

- M029004 Pivot Bracket
- M127005 Rod Clevis

For bumper and magnetic band option add .250" to overall length.

**Double Acting – 1500D04-00A****Double Nose Mount**

Standard Stroke Lengths:

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

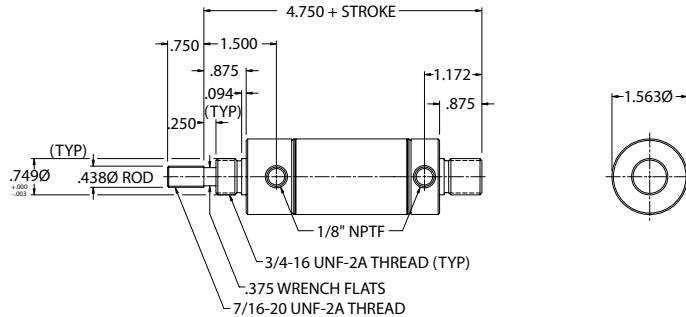
Maximum Stroke: 32"

Base Weight: .82 lbs., plus .08 lbs. per inch of stroke

\*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis

For bumper and magnetic band option add .250" to overall length.

**Single Acting Spring Return – 1500N01-00A****Front Nose Mount Non-Rotating**

Standard Stroke Lengths:

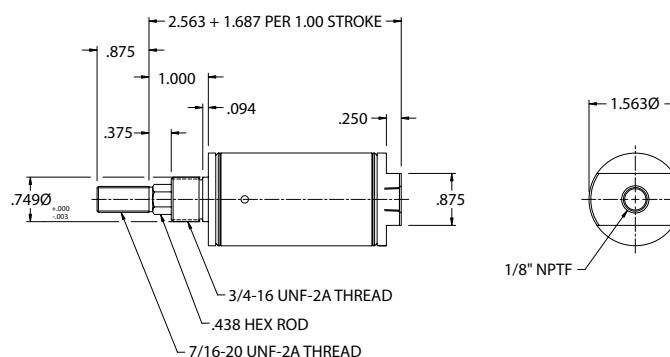
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .45 lbs., plus .22 lbs. per inch of stroke

\*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis



**1-1/2" Bore Cylinder****Single Acting Spring Return – 1500N02-00A**  
**Rear Pivot Mount Non-Rotating**

Standard Stroke Lengths:

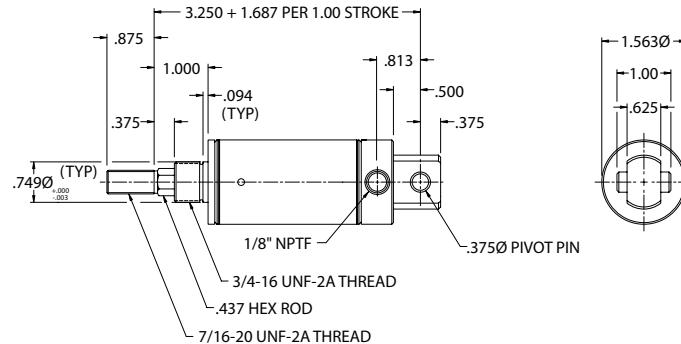
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .46 lbs., plus .22 lbs. per inch of stroke

\*Optional Accessories:

- M029004 Pivot Bracket
- M127005 Rod Clevis

**Double Acting – 1500D03-00A**  
**Through Rod**

Standard Stroke Lengths:

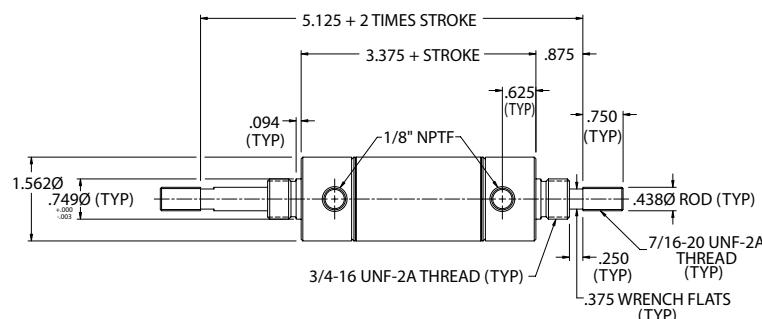
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

Base Weight: 1.17 lbs., plus .13 lbs. per inch of stroke

\*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis

**Double Acting – 1500DH3-00A**  
**Through Rod Hollow Rod**

Standard Stroke Lengths:

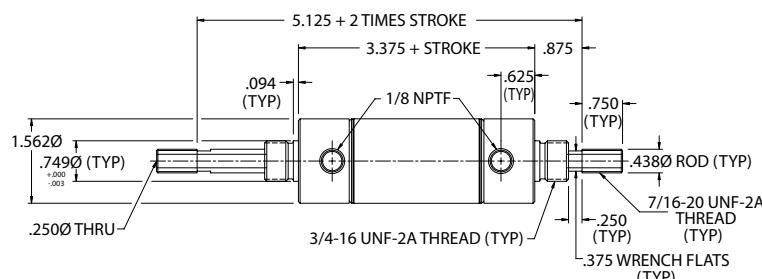
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

Base Weight: 1.16 lbs., plus .13 lbs. per inch of stroke

\*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis

**Double Acting – 1500D05-00A**  
**Front Block Mount**

Standard Stroke Lengths:

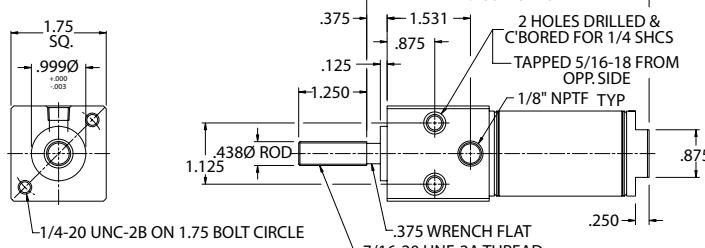
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

Base Weight: .99 lbs., plus .08 lbs. per inch of stroke

\*Optional Accessories:

- M127005 Rod Clevis



## 1-1/2" Bore Cylinder

## Double Acting – 1500D06-00A

## Trunnion Mount

### Standard Stroke Lengths:

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

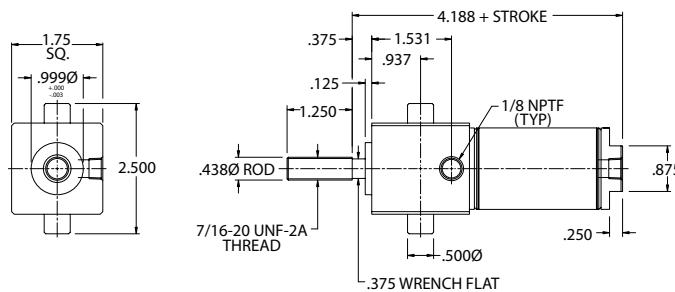
Maximum Stroke: 12"

Base Weight: 1.06 lbs., plus .08 lbs. per inch of stroke

\*Optional Accessories:

#### Optional Accessories:

- M029006 Pivot Bracket
- M127005 Rod Clevis

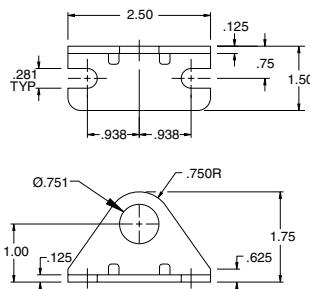


## 1-1/2" Bore Cylinder Specifications

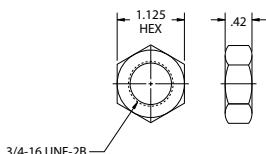
- $(1.7) \times (\text{Air Line Pressure}) = \text{Approximate Force Exerted}$
- Enclosed spring force: 7 lbs. retracted, 14 lbs. extended. Note that R01 and R02 is 9 lbs. retracted, 17 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- FKM seals are optional on all cylinders for 200 °F to 350 °F applications.
- Bumpers are optional on all 1-1/2" bore cylinders (except in combination with FKM option).
- Magnetic piston optional on all double acting 1-1/2" bore cylinders (except in combination with FKM option).
- Bumper and magnet option on 1-1/2" bore double acting cylinder adds .250" to overall length.

## 1-1/2" Bore Accessories

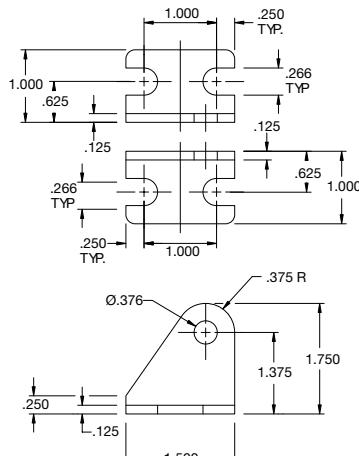
## Nose Mounting Brackets M117007



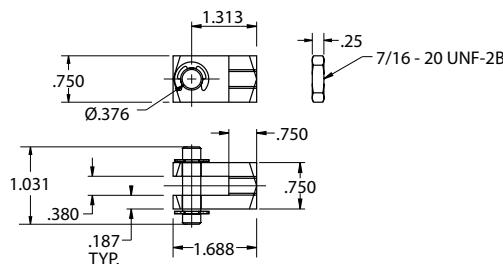
## Mounting Nuts M190006



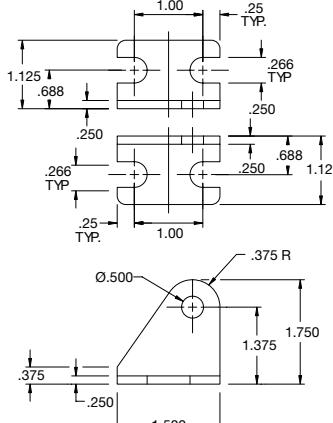
## Pivot Mount Bracket M029004



Rod Clevis  
M127005



M029006



**1-3/4" Bore Cylinder****Single Acting Spring Return – 1750S01-00A**  
Front Nose Mount

Standard Stroke Lengths:

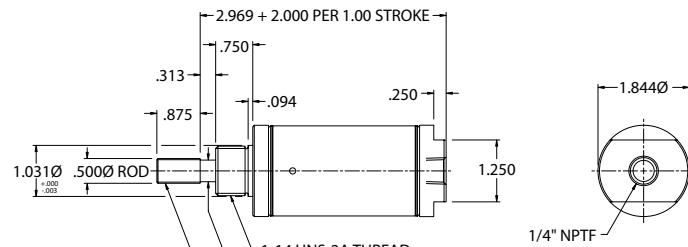
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .85 lbs., plus .36 lbs. per inch of stroke

\*Optional Accessories:

- M117008 Mounting Bracket
- M127006 Rod Clevis

**Single Acting Spring Return – 1750S02-00A**  
Double Nose or Rear Pivot Mount

Standard Stroke Lengths:

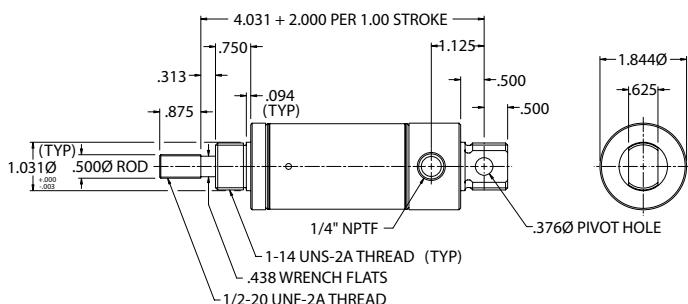
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .86 lbs., plus .36 lbs. per inch of stroke

\*Optional Accessories:

- M117008 Mounting Bracket
- M129005 Pivot Bracket
- M127006 Rod Clevis

**Single Acting Spring Extend – 1750R01-00A**  
Front Nose Mount

Standard Stroke Lengths:

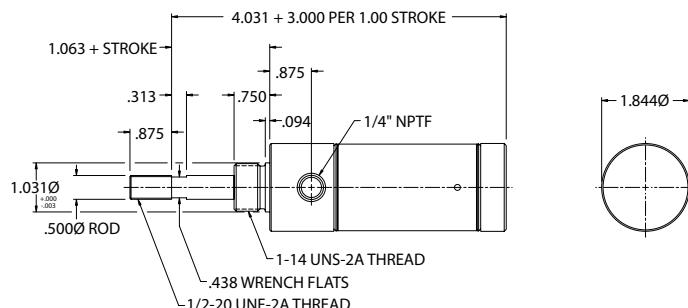
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: 1.17 lbs., plus .31 lbs. per inch of stroke

\*Optional Accessories:

- M117008 Mounting Bracket
- M127006 Rod Clevis

**Double Acting – 1750D01-00A**  
Front Nose Mount

Standard Stroke Lengths:

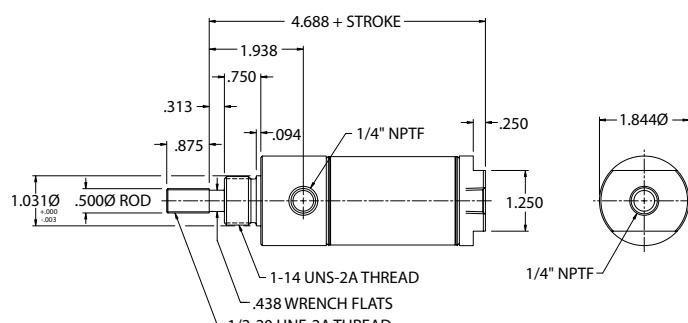
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

Maximum Stroke: 12"

Base Weight: 1.29 lbs., plus .11 lbs. per inch of stroke

\*Optional Accessories:

- M117008 Mounting Bracket
- M127006 Rod Clevis



**1-3/4" Bore Cylinder****Double Acting – 1750D02-00A****Double Nose or Rear Pivot Mount**

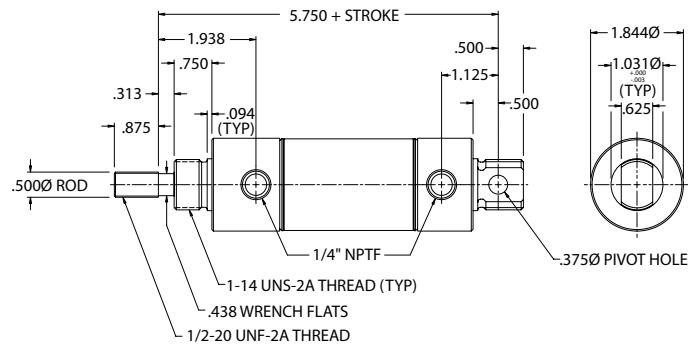
Standard Stroke Lengths: 1/2", 1", 1-1/2" 2", 2-1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

Maximum Stroke: 32"

Base Weight: 1.64 lbs., plus .11 lbs. per inch of stroke

\*Optional Accessories:

- M117008 Mounting Bracket
- M129005 Pivot Bracket
- M127006 Rod Clevis

**Double Acting Double Nose Mount – 1750D03-00A**

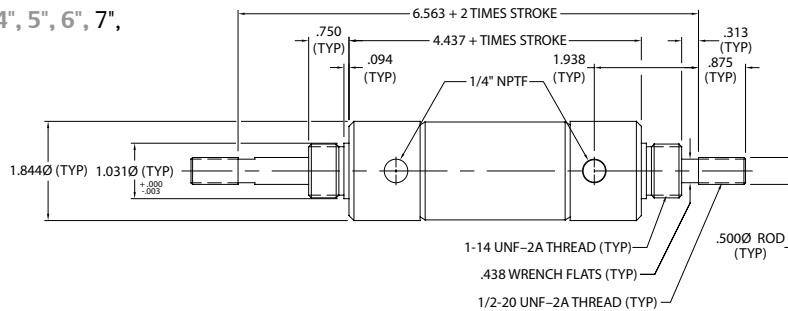
Standard Stroke Lengths: 1/2", 1", 1-1/2" 2", 2-1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

Maximum Stroke: 32"

Base Weight: 1.87 lbs., plus .18 lbs. per inch of stroke

\*Optional Accessories:

- M029002 Pivot Bracket
- M127006 Rod Clevis
- M117008 Nose Mount Bracket
- M190008 Mounting Nut
- M190004 Rod Nut

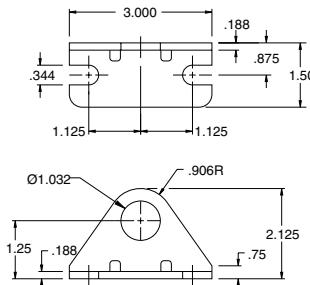
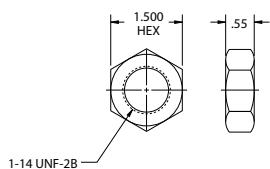
**1-3/4" Bore Cylinder Specifications**

- (2.4) x (Air Line Pressure) = Approximate Force Exerted
- Enclosed spring force: 11 lbs. retracted, 24 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- FKM seals are optional on all cylinders for 200 °F to 350 °F applications.
- Bumpers are optional on all 1-3/4" bore cylinders (except in combination with FKM option).
- Magnetic piston optional on all double acting 1-3/4" bore cylinders (except in combination with FKM option).

## 1-3/4" Bore Accessories

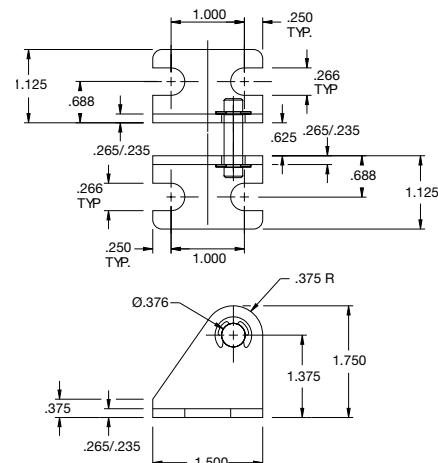
## Nose Mounting Brackets

M117008

Mounting Nuts  
M190008

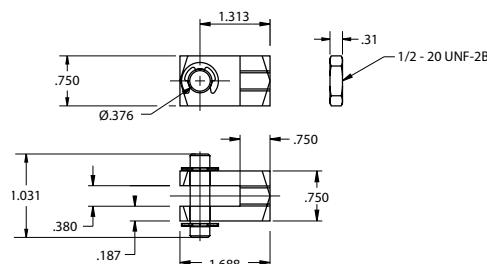
## Pivot Mount Bracket

M129005



## Rod Clevis

M127006



**2" Bore Cylinder****Single Acting Spring Return – 2000S01-00A**  
Front Nose Mount

Standard Stroke Lengths:

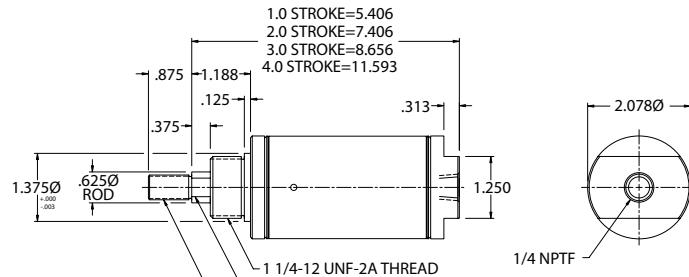
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 4"

Base Weight: 1.04 lbs., plus .43 lbs. per inch of stroke

\*Optional Accessories:

- M117009 Mounting Bracket
- M127006 Rod Clevis

**Single Acting Spring Return – 2000S02-00A**  
Double Nose or Rear Pivot Mount

Standard Stroke Lengths:

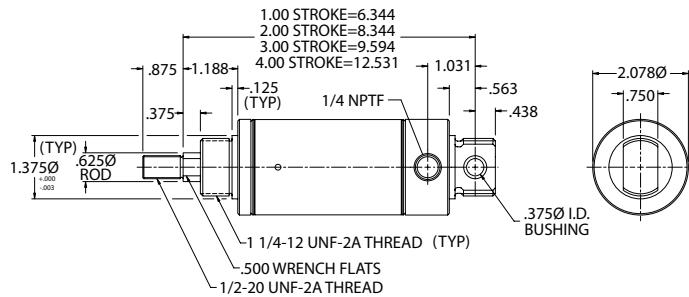
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 4"

Base Weight: 1.26 lbs., plus .43 lbs. per inch of stroke

\*Optional Accessories:

- M117009 Mounting Bracket
- M229005 Pivot Bracket
- M127006 Rod Clevis

**Single Acting Spring Extend – 2000R01-00A**  
Front Nose Mount

Standard Stroke Lengths:

1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

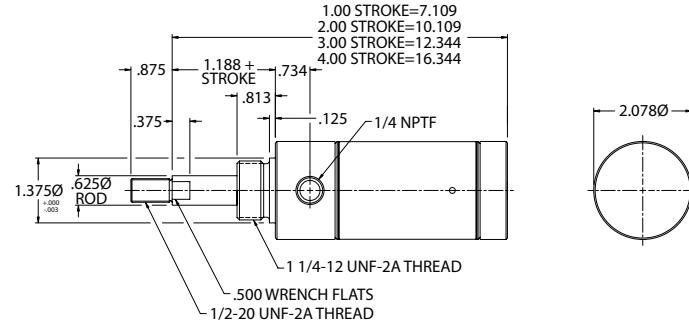
Maximum Stroke: 4"

Base Weight: 1.24 lbs., plus .43 lbs. per inch of stroke

\*Optional Accessories:

- M117009 Mounting Bracket
- M127006 Rod Clevis

For bumper option, add .125" to overall length.

**Single Acting Spring Extend – 2000R02-00A**  
Double Nose or Rear Pivot Mount

Standard Stroke Lengths:

1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

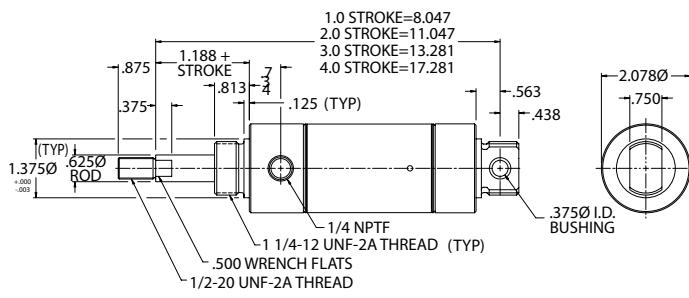
Maximum Stroke: 4"

Base Weight: 1.46 lbs., plus .43 lbs. per inch of stroke

\*Optional Accessories:

- M117009 Mounting Bracket
- M229005 Pivot Bracket
- M127006 Rod Clevis

For bumper option, add .125" to overall length.



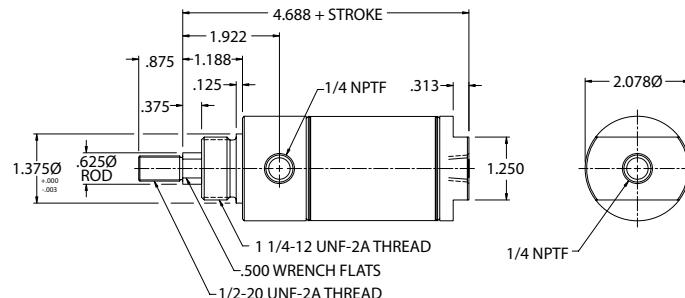
**2" Bore Cylinder****Double Acting – 2000D01-00A****Front Nose Mount****Standard Stroke Lengths:**

1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", 7", 8"

**Maximum Stroke: 12"****Base Weight: 1.40 lbs., plus .15 lbs. per inch of stroke****\*Optional Accessories:**

- M117009 Mounting Bracket
- M127006 Rod Clevis

For bumper option, add .250 to overall length.

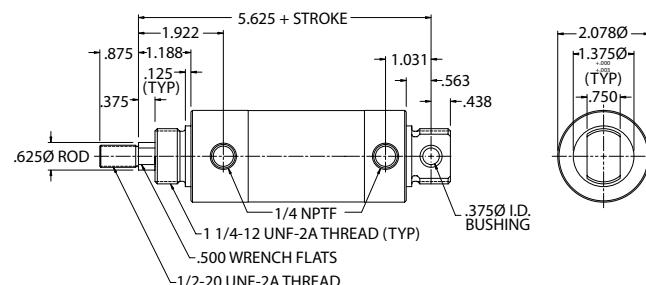
**Double Acting – 2000D02-00A****Double Nose or Rear Pivot Mount****Standard Stroke Lengths:**

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

**Maximum Stroke: 32"****Base Weight: 1.62 lbs., plus .15 lbs. per inch of stroke****\*Optional Accessories:**

- M117009 Mounting Bracket
- M229005 Pivot Bracket
- M127006 Rod Clevis

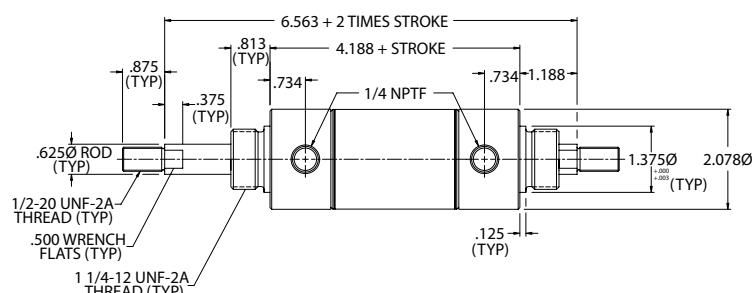
For bumper option, add .250 to overall length.

**Double Acting – 2000D03-00A****Through Rod****Standard Stroke Lengths:**

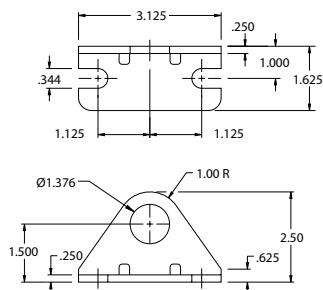
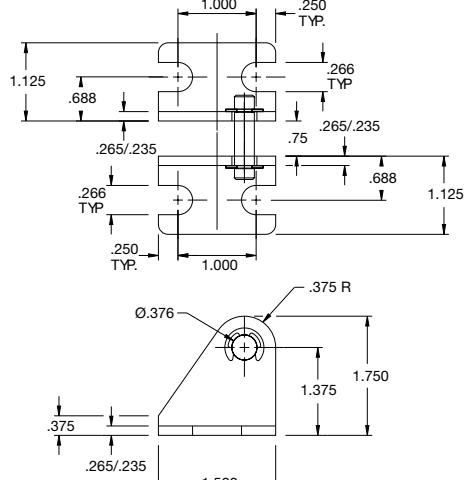
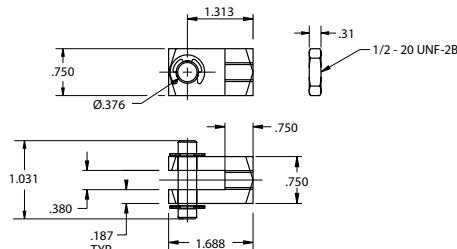
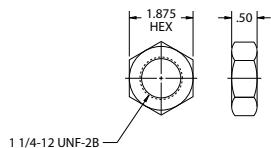
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

**Maximum Stroke: 12"****Base Weight: 1.97 lbs., plus .24 lbs. per inch of stroke****\*Optional Accessories:**

- M117009 Mounting Bracket
- M127006 Rod Clevis

**2" Bore Cylinder Specifications**

- (3.1) x (Air Line Pressure) = Approximate Force Exerted
- Enclosed spring force: 15 lbs. retracted, 30 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- FKM seals are optional on all cylinders for 200 °F to 350 °F applications.
- Bumpers are optional on all 2" bore cylinders (except in combination with FKM option).
- Magnetic piston optional on all double acting 2" bore cylinders (except in combination with FKM option).
- Bumper option on single acting spring extend cylinders adds .125" to overall length.
- Bumper option on all double acting cylinders adds .250 to overall length.

**2" Bore Accessories****Nose Mounting Brackets**  
M117009**Pivot Mount Bracket**  
M229005**Rod Clevis**  
M127006**Mounting Nuts**  
M190009



**3" Bore Cylinder****Double Acting – 3000D01-00A****Front Nose Mount**

Standard Stroke Lengths:

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

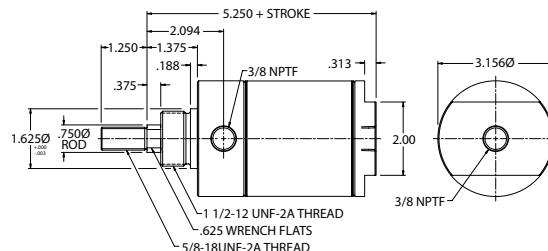
Maximum Stroke: 12"

Base Weight: 3.34 lbs., plus .26 lbs. per inch of stroke

\*Optional Accessories:

- M117009 Mounting Bracket
- M127007 Rod Clevis

For bumper option, add .063" to overall length.

**Double Acting – 3000D02-00A****Double Nose or Rear Pivot Mount**

Standard Stroke Lengths:

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

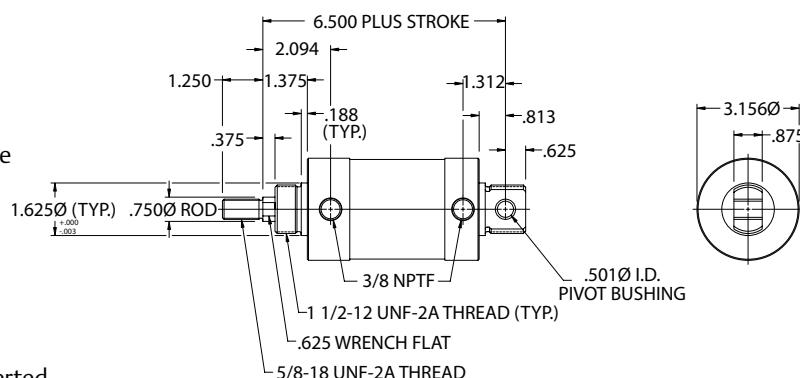
Maximum Stroke: 32"

Base Weight: 3.87 lbs., plus .26 lbs. per inch of stroke

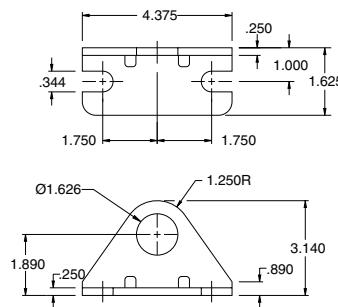
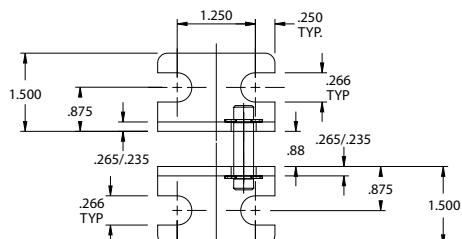
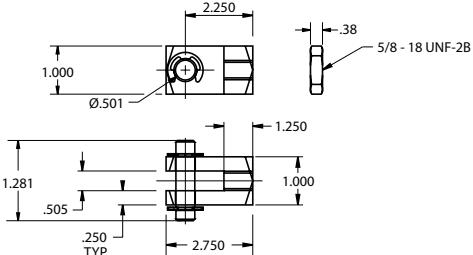
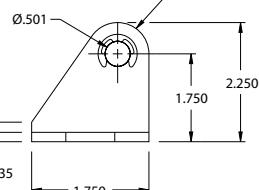
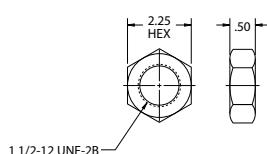
\*Optional Accessories:

- M117009 Mounting Bracket
- M229005 Pivot Bracket
- M127007 Rod Clevis

For bumper option, add .063" to overall length.

**3" Bore Cylinder Specifications**

- (7.0) x (Air Line Pressure) = Approximate Force Exerted
- Type 303 stainless steel rod as standard.
- FKM seals are optional on all cylinders for 200 °F to 350 °F applications.
- Magnetic piston optional on all 3" bore cylinders.
- Bumper option on all 3" bore cylinders adds .063" to overall length.

**3" Bore Accessories****Nose Mounting Brackets  
M117011****Pivot Mount Bracket  
M229006****Rod Clevis  
M127007****Mounting Nuts  
M190013**

## Adjustable Cushion Cylinders

### 3/4" Bore Double Acting – 0750DG1-00A

#### Front Nose Mount with Cushions

Standard Stroke Lengths:

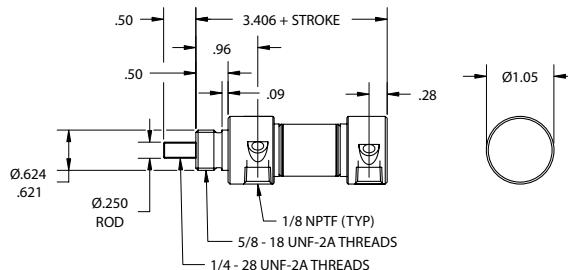
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

Base Weight: .24 lbs., plus .03 lbs. per inch of stroke

\* Optional Accessories:

- M117005 Mounting Bracket
- M127003 Rod Clevis



### 3/4" Bore Double Acting – 0750DG2-00A

#### Rear Pivot Mount with Cushions

Standard Stroke Lengths:

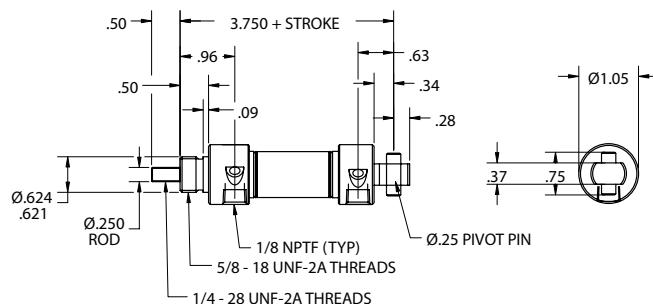
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

Base Weight: .29 lbs., plus .03 lbs. per inch of stroke

\* Optional Accessories:

- M117005 Mounting Bracket
- M127003 Rod Clevis



### 1-1/16" Bore Double Acting – 1062DG1-00A

#### Front Nose Mount with Cushions

Standard Stroke Lengths:

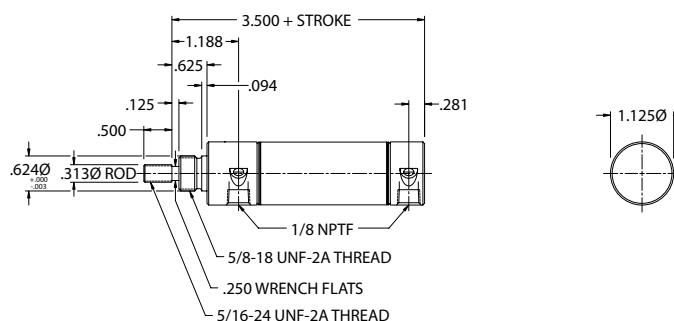
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

Base Weight: .38 lbs., plus .04 lbs. per inch of stroke

\* Optional Accessories:

- M117005 Mounting Bracket
- M127003 Rod Clevis



### 1-1/16" Bore Double Acting – 1062DG2-00A

#### Rear Pivot Mount with Cushions

Standard Stroke Lengths:

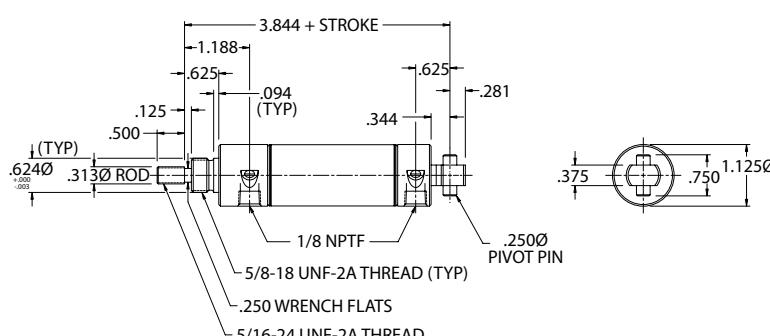
1/2", 1", 1-1/2", 2", 2-1/2", 3" with magnet, 4", 5", 6", 7", 8", 9", 10", 11", 12"

Maximum Stroke: 32"

Base Weight: .44 lbs., plus .04 lbs. per inch of stroke

\* Optional Accessories:

- M117005 Mounting Bracket
- M029003 Pivot Bracket
- M127004 Rod Clevis



## Adjustable Cushion Cylinder Specifications

• Refer to specific bore size in standard cylinder section for specifications.

\* See page 51 – 58 for accessory details.

**Adjustable Cushion Cylinders****1-1/2" Bore Double Acting – 1500DG1-00A****Front Nose Mount with Cushions**

Available Stroke Lengths:

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

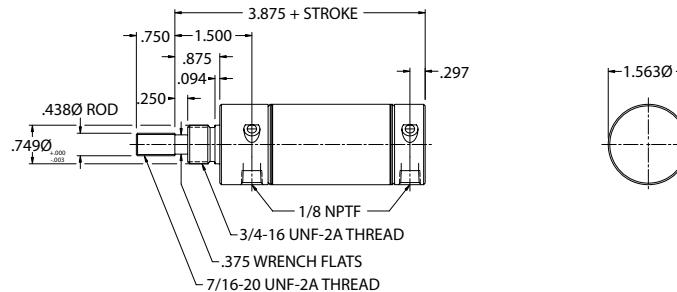
\*with magnet

Maximum Stroke: 12"

Base Weight: .77 lbs., plus .09 lbs. per inch of stroke

\*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis

**1-1/2" Bore Double Acting – 1500DG2-00A****Rear Pivot Mount with Cushions**

Standard Stroke Lengths:

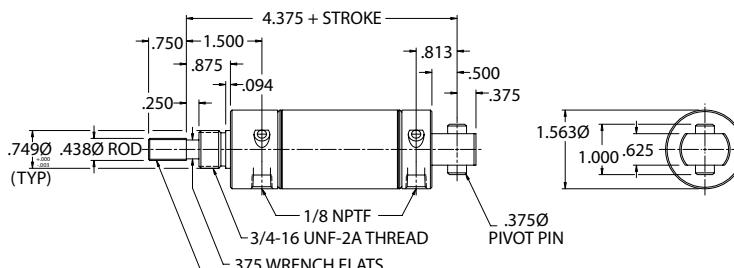
1/2", 1", 1-1/2", 2", 2-1/2", **3"**, 4", 5", 6", 7",  
8", 9", 10", 11", 12"

Maximum Stroke: 32"

Base Weight: .77 lbs., plus .09 lbs. per inch of stroke

\*Optional Accessories:

- M029004 Pivot Bracket
- M127005 Rod Clevis

**2" Bore Double Acting – 2000DG1-00A****Front Nose Mount with Cushions**

Standard Stroke Lengths:

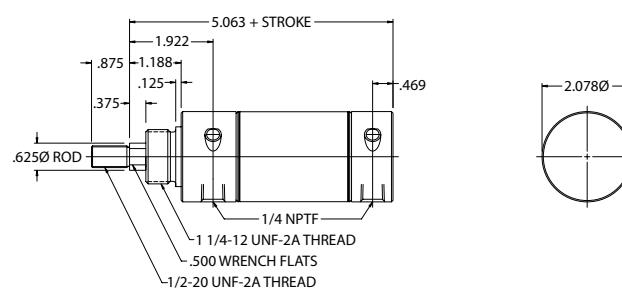
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

Base Weight: 1.64 lbs., plus .15 lbs. per inch of stroke

\*Optional Accessories:

- M117009 Mounting Bracket
- M127006 Rod Clevis

**2" Bore Double Acting – 2000DG2-00A****Rear Pivot Mount with Cushions**

Standard Stroke Lengths:

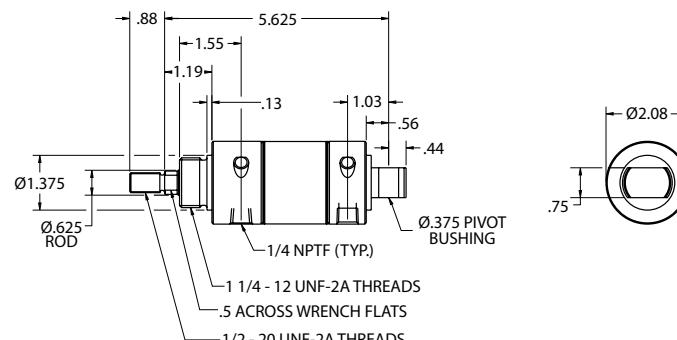
1/2", 1", 1-1/2", 2", 2-1/2", **3"**, 4", 5", 6"

Maximum Stroke: 32"

Base Weight: 1.68 lbs., plus .15 lbs. per inch of stroke

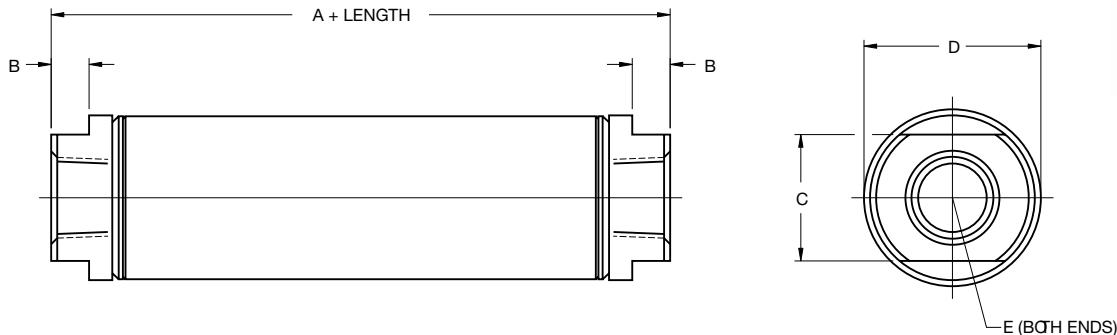
\*Optional Accessories:

- M117009 Mounting Bracket
- M229005 Pivot Bracket
- M127006 Rod Clevis



\* See page 51 – 58 for accessory details.

## Volume Chambers



Bore	A	B	C	D	E	Cubic Inches Per Inch	Standard Length	Maximum Length
3/4"	1.062	0.190	0.625	0.813	1/8"	0.440	1" Increments to 4"	32"
1-1/16"	1.188	0.190	0.875	1.125	1/8"	0.886	1" Increments to 8"	32"
1-1/2"	1.375	0.250	0.875	1.563	1/8"	1.767	1" Increments to 16"	32"
2"	1.767	0.310	1.250	2.078	1/4"	3.141	1" Increments to 16"	32"
2-1/2"	1.767	0.310	1.750	2.625	1/4"	4.908	1" Increments to 24"	32"
3"	2.000	0.310	2.00	3.156	3/8"	7.069	1" Increments to 24"	32"

## How To Order

1500 V 01 - 01 A

**Bore**  
 0313 = 5/16"  
 0438 = 7/16"  
 0563 = 9/16"  
 0750 = 3/4"  
 0875 = 7/8"  
 1062 = 1-1/16"  
 1250 = 1-1/4"  
 1500 = 1-1/2"  
 1750 = 1-3/4"  
 2000 = 2"  
 2500 = 2-1/2"  
 3000 = 3"

**Style**  
 V = Volume Chamber

**Mount**  
 01 = Nose Mount  
 02 = Pivot Mount

**Fractional Inches of Length**

A = 0" Stroke  
 B = 1/16" Stroke  
 C = 1/8" Stroke  
 D = 3/16" Stroke  
 E = 1/4" Stroke  
 F = 5/16" Stroke  
 G = 3/8" Stroke  
 H = 7/16" Stroke  
 I = 1/2" Stroke  
 J = 9/16" Stroke  
 K = 5/8" Stroke  
 L = 11/16" Stroke  
 M = 3/4" Stroke  
 N = 13/16" Stroke  
 O = 7/8" Stroke  
 P = 15/16" Stroke

**Full Inches of Length**

00 = 0"  
 01 = 1"  
 02 = 2"  
 03 = 3"  
 32 = 32" (maximum)

## Volume Chamber Specifications

- Type 304 stainless steel body.
- Aluminum alloy end caps.
- Pressure rating: 250 psi.

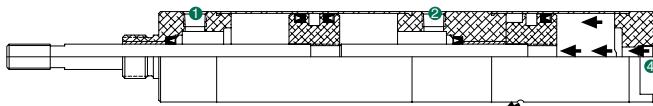
## Multi-Position Cylinders

### Features

The M Series Multi-Position is a three-position stainless steel body cylinder with numerous application advantages. It provides three positions with a single cylinder.

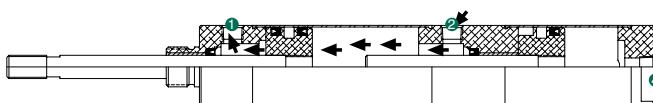
### Step 1

The total stroke from full retract to the intermediate position is achieved by pressurizing port 4.



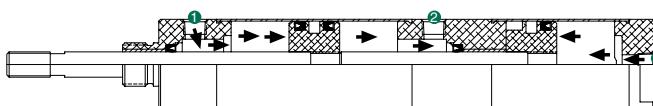
### Step 2

The total stroke from the intermediate position to full extend is achieved by pressurizing port 2 with port 1 vented.



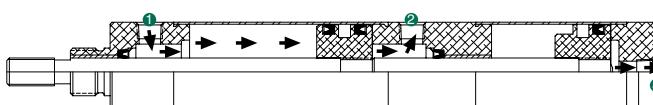
### Step 3

The total stroke from full extend to the intermediate position is achieved by pressurizing ports 1 and 4 with port 2 vented.



### Step 4

The total stroke from full extend to full retract is achieved by pressurizing port 1 with ports 2 and 4 vented.



## How To Order

**1500 D1 - 02A - 01A - 00**

#### Bore

0750 = 3/4"  
1062 = 1-1/16"  
1500 = 1-1/2"  
2000 = 2"

#### Mount

D1 = Nose Mount

#### Options

00 = No Options  
12 = Magnetic Band (Both Ends)  
(or leave blank)

#### Rear Stroke

Front Stroke (total stroke) Full Inches  
00 = 0"  
01 = 1"  
02 = 2"

#### Fractional Inches

A = 0"  
I = 1/2"

For rear strokes of over 8" and/or combined strokes over 24", consult factory.

Example: 1500D1-02A-01A-00

When port 4 is pressurized, the cylinder will stroke 1". When port 2 is pressurized, the cylinder will stroke an additional 1" for a total stroke of 2".

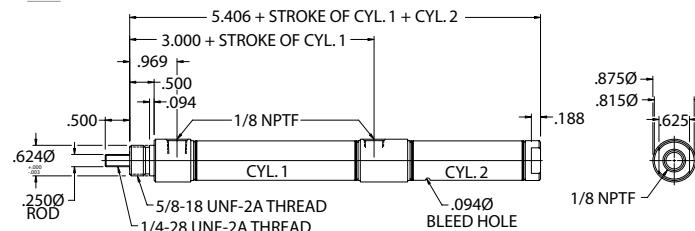


**Multi-Position Cylinders****3/4" Bore Standard – 0750D1-00A-00A-00****3/4" Bore Magnetic Band (both ends) – 0750D1-00A-00A-12****Front Nose Mount**

Maximum Stroke: 24"

\*Optional Accessories:

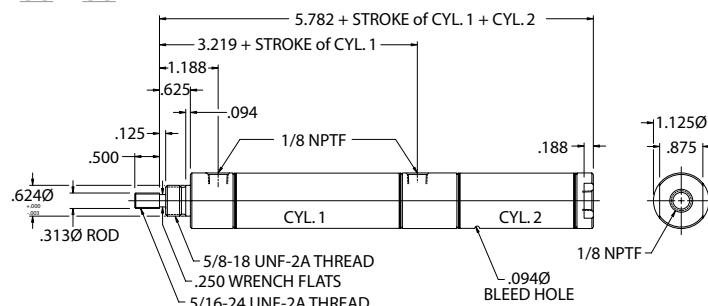
- M117005 Mounting Bracket

**1-1/16" Bore Standard – 1062D1-00A-00A-00****1-1/16" Bore Magnetic Band (both ends) – 1062D1-00A-00A-12****Front Nose Mount**

Maximum Stroke: 24"

\*Optional Accessories:

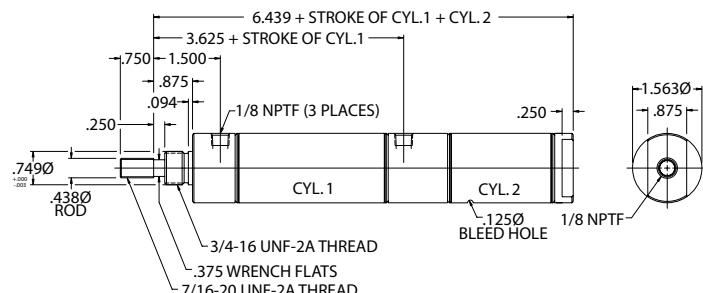
- M117005 Mounting Bracket

**1-1/2" Bore Standard – 1500D1-00A-00A-00****1-1/2" Bore Magnetic Band (both ends) – 1500D1-00A-00A-12****Front Nose Mount**

Maximum Stroke: 24"

\*Optional Accessories:

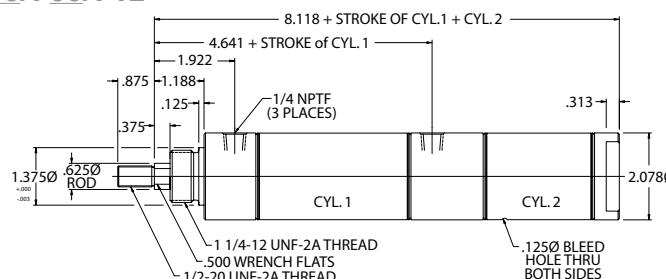
- M117007 Mounting Bracket

**2" Bore Standard – 2000D1-00A-00A-00****2" Bore Magnetic Band (both ends) – 2000D1-00A-00A-12****Front Nose Mount**

Maximum Stroke: 24"

\*Optional Accessories:

- M117009 Mounting Bracket



\* See page 51-58 for accessory details.

## Single Acting with Magnet Cylinders

### Features

Single Acting M Series with a magnetic band on the piston for position sensing.



### How To Order

0563 S01 - 00A - 03

**Bore**

0563 = 9/16"  
0750 = 3/4"  
1062 = 1-1/16"  
1500 = 1-1/2"  
2000 = 2"

**Mount**

S01 = Front Nose Mount  
S02 = Double Nose or Rear Pivot Mount

**Options**

03 = Magnetic Piston

**Rear Stroke (full inches)**

00 = 0"  
01 = 1"  
02 = 2"  
06 = 6" (maximum)

**Fractional Inches**

A = 0"  
I = 1/2"

**Single Acting with Magnet Cylinders****9/16" Bore Single Acting Spring Return – 0563S01-00A-03**

Front Nose Mount with Magnetic Band

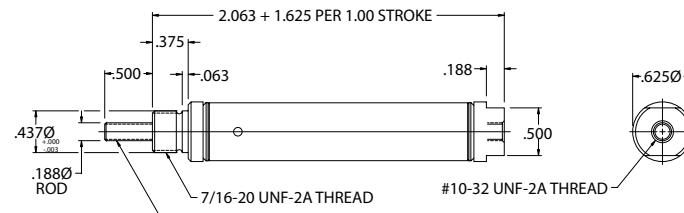
Standard Stroke Lengths:

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

Maximum Stroke: 6"

\*Optional Accessories:

- M117003 Mounting Bracket
- M127002 Rod Clevis

**9/16" Bore Single Acting Spring Return – 0563S02-00A-03**

Double Nose or Rear Pivot Mount with Magnetic Band

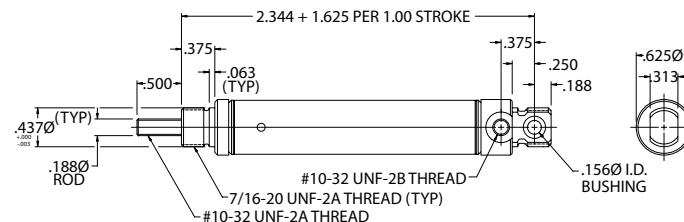
Standard Stroke Lengths:

1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

\*Optional Accessories:

- M117003 Mounting Bracket
- M129002 Pivot Bracket
- M127002 Rod Clevis

**3/4" Bore Single Acting Spring Return – 0750S01-00A-03**

Front Nose Mount with Magnetic Band

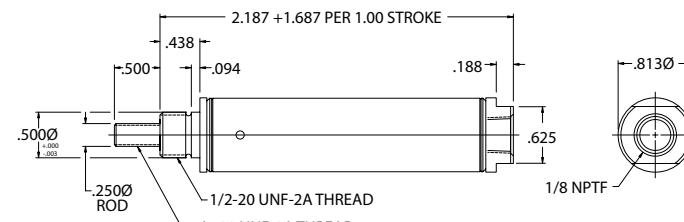
Standard Stroke Lengths:

1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

\*Optional Accessories:

- M117006 Mounting Bracket
- M127003 Rod Clevis

**3/4" Bore Single Acting Spring Return – 0750S02-00A-03**

Double Nose or Rear Pivot Mount with Magnetic Band

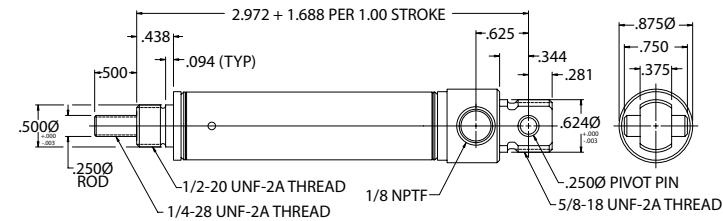
Standard Stroke Lengths:

1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

\*Optional Accessories:

- M029003 Pivot Bracket
- M127002 Rod Clevis



\* See page 51-58 for accessory details.

## Single Acting with Magnet Cylinders

### 1-1/16" Bore Single Acting Spring Return – 1062S01-00A-03 Front Nose Mount with Magnetic Band

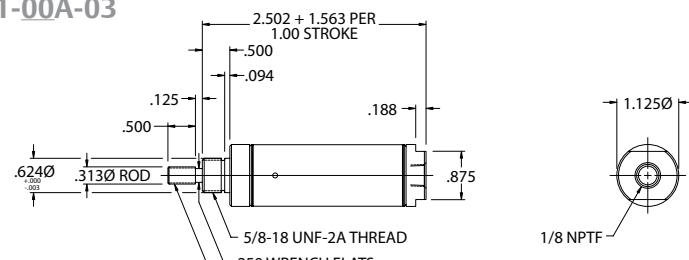
Standard Stroke Lengths:

1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

\*Optional Accessories:

- M117003 Mounting Bracket
- M127002 Rod Clevis



### 1-1/16" Bore Single Acting Spring Return – 1062S02-00A-03 Double Nose or Rear Pivot Mount with Magnetic Band

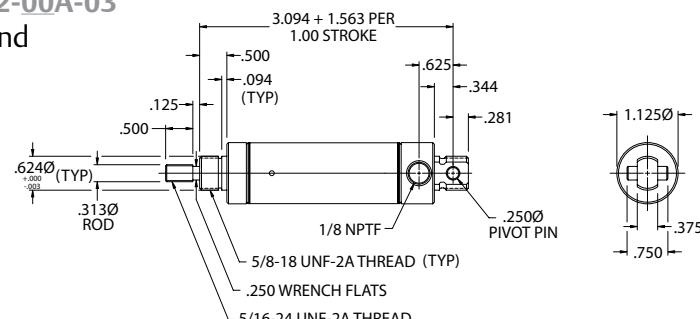
Standard Stroke Lengths:

1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

\*Optional Accessories:

- M117003 Mounting Bracket
- M129002 Pivot Bracket
- M127002 Rod Clevis



### 1-1/2" Bore Single Acting Spring Return – 1500S01-00A-03 Front Nose Mount with Magnetic Band

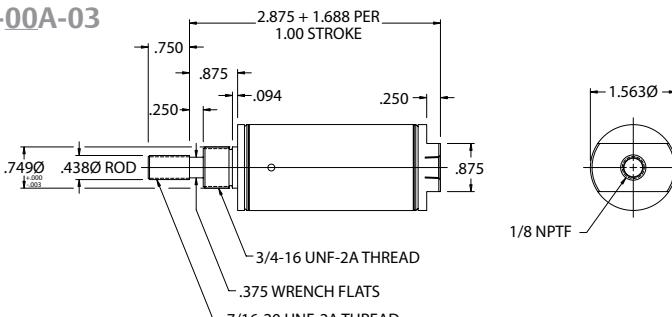
Standard Stroke Lengths:

1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

\*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis



### 1-1/2" Bore Single Acting Spring Return – 1500S02-00A-03 Double Nose or Rear Pivot Mount with Magnetic Band

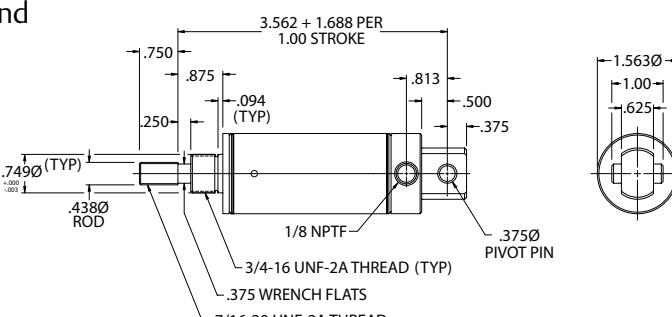
Standard Stroke Lengths:

1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

\*Optional Accessories:

- M029004 Pivot Bracket
- M127005 Rod Clevis



\* See page 51 – 58 for accessory details.

## Single Acting with Magnet Cylinders

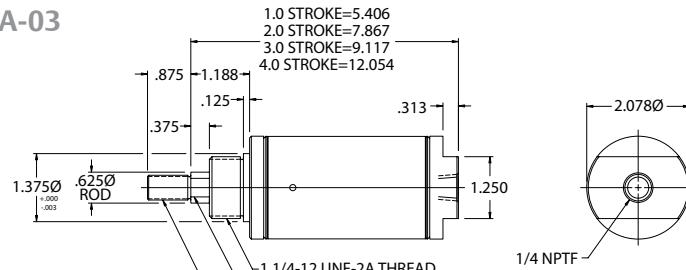
### 2" Bore Single Acting Spring Return – 2000S01-00A-03 Front Nose Mount with Magnetic Band

Standard Stroke Lengths:  
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 4"

\*Optional Accessories:

- M117009 Mounting Bracket
- M127006 Rod Clevis



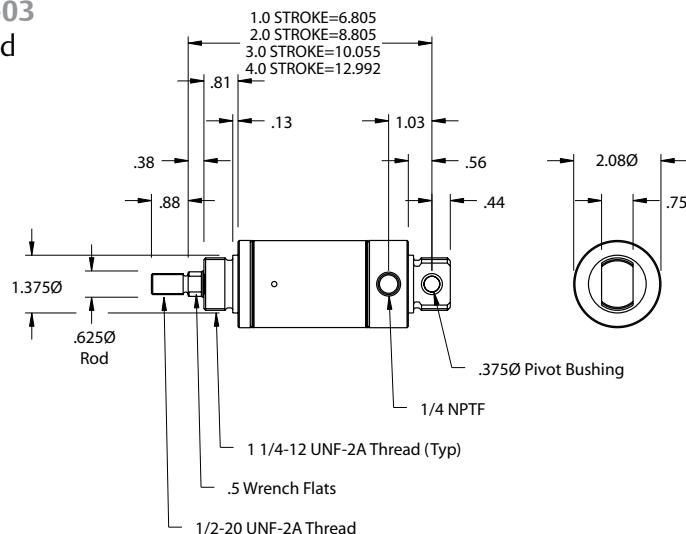
### 2" Bore Single Acting Spring Return – 2000S02-00A-03 Double Nose or Rear Pivot Mount with Magnetic Band

Standard Stroke Lengths:  
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 4"

\*Optional Accessories:

- M117009 Mounting Bracket
- M129005 Pivot Bracket
- M127006 Rod Clevis



\* See page 51 – 58 for accessory details.

## Hole Punch Cylinders

### Features

The durable design of our Hole Punch Cylinder enables you to punch millions of maintenance-free holes. The Numatics Hole Punch Cylinder is perfect for punching holes in LLDPE (Linear Low Density Polyethylene) film. The ability to replace the punch is an integral part of the design. The punches are replaceable without having to replace the cylinder. Our razor sharp plastic punches are self-sharpening and are able to significantly outlast conventional steel punches in most applications. We offer the option of an air ejector, foam ejector, and auto ejector. These ejectors discharge material slug from the center of the punch as well as prevent debris build-up. Our punches are available in eight different punch sizes from 1/8" to 3/4".

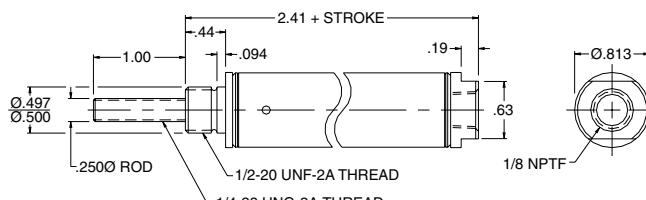


Our punches may be used with any of our M Series cylinders that have 1/4-28 UNF-2A male threads. For your convenience, configured three standard Hole Punch Cylinders designed specifically for hole punch applications. The standard Hole Punch Cylinder is 3/4" bore with 1" stroke, nose mount, spring return, stainless steel rod, 1/8" NPT port, and 1/2" of thread extension to allow for adjustment of the punch. It also includes elastomer bumpers to ensure quiet operation. The cylinder is rated for 250 psi. We offer three standard Hole Punch Cylinder types: spring return, spring return with non-rotating rod, and spring return with hollow rod version. The standard cylinder is offered with a 1" stroke, i.e., M12263-01A. Please note that 1/2" stroke Hole Punch Cylinders are available as standard i.e., 1/2" stroke = M12263-001. However, strokes greater than 1" are available upon request. Mounting nuts come standard with all Hole Punch Cylinders. Note: For air ejector use, a hollow rod cylinder is required.

### 3/4" Bore Single Acting Spring Return – M12263-001

#### 1/2" Stroke

- Bumpers
- 1/2" Thread Extension



### 3/4" Bore Single Acting Spring Return – M12263-01A

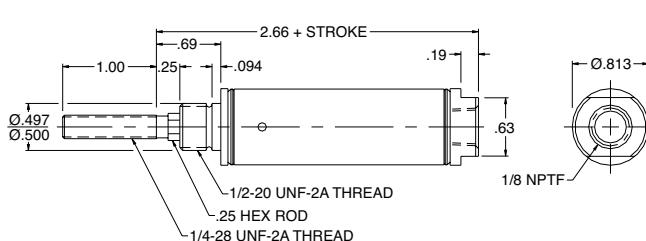
#### 1" Stroke

- Bumpers
- 1/2" Thread Extension

### 3/4" Bore Single Acting Spring Return – M12264-001

#### 1/2" Stroke – Non-Rotating Rod

- Bumpers
- 1/2" Thread Extension



### 3/4" Bore Single Acting Spring Return – M12264-01A

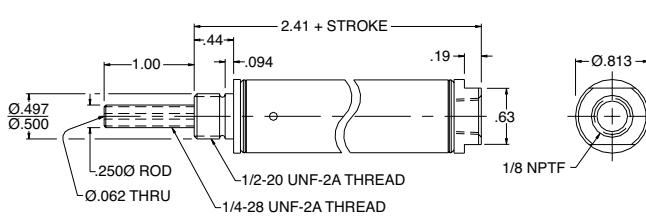
#### 1" Stroke – Non-Rotating Rod

- Bumpers
- 1/2" Thread Extension

### 3/4" Bore Single Acting Spring Return – M12265-001

#### 1/2" Stroke – Hollow Rod

- Bumpers
- 1/2" Thread Extension



### 3/4" Bore Single Acting Spring Return – M12265-01A

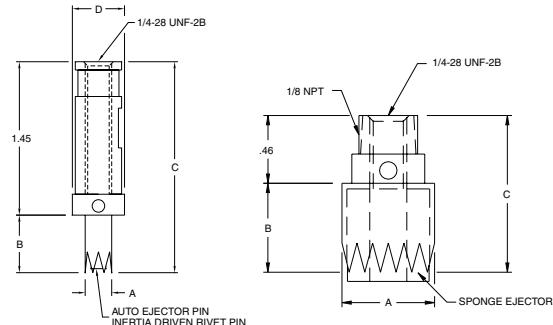
#### 1" Stroke – Hollow Rod

- Bumpers
- 1/2" Thread Extension

## Hole Punches

### Benefits

- Punches are replaceable without replacing cylinder
- Self-sharpening, outlast steel punches 2 – 5 times (in most applications)
- Sponge “auto” ejector standard on sizes 3/8" thru 3/4" diameter
- Auto-ejector standard on sizes 1/8" and 1/4" diameter
- Adjustable position
- Excellent for use in LLDPE (Linear Low Density Polyethylene) Film
  - Polyethylene film up to 3 mil thickness
  - Polypropylene film up to 1 mil thickness



Hole Diameters 1/8" – 1/4"  
Shown with AB-1A Adapter

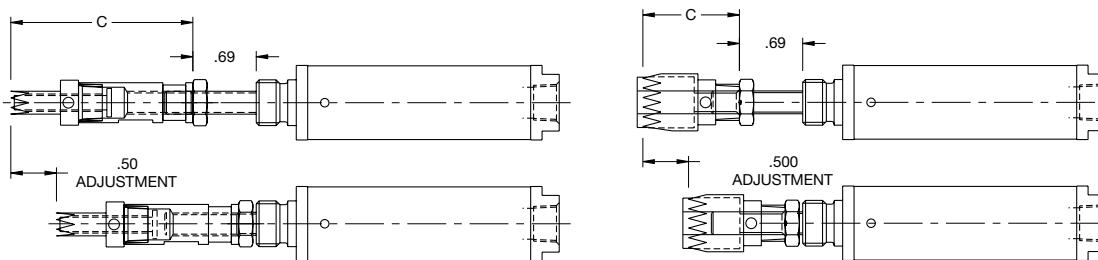
Hole Diameters  
3/8" – 3/4"

### NOTE:

1. Punches come in packages of 5.
2. Adapters are sold individually and do not come with the punch.
3. Air ejection is available when used on hollow rod cylinder. (M12265)
4. Jam nuts come standard on “Hole Punch” cylinders.

Part #	Hole Diameter	A	B	C	Standard Ejector Type	Adapter Required
PCN-18	1/8"	.125	.54	1.00	Auto Ejector Pin	AB-1A
PCN-14	1/4"	.250	.54	1.00	Auto Ejector Pin	AB-1A
PCN-38	3/8"	.375	.54	1.00	Auto Ejector Pin	None
PCN-716	7/16"	.437	.54	1.00	Auto Ejector Pin	None
PCN-12	1/2"	.500	.54	1.00	Auto Ejector Pin	None
PCN-916	9/16"	.562	.60	1.06	Auto Ejector Pin	None
PCN-58	5/8"	.625	.60	1.06	Auto Ejector Pin	None
PCN-34	3/4"	.750	.60	1.06	Auto Ejector Pin	None

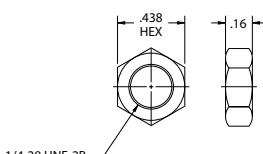
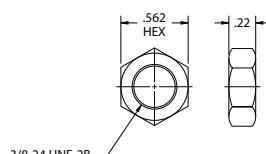
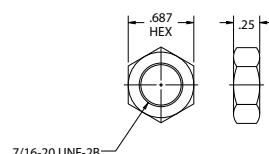
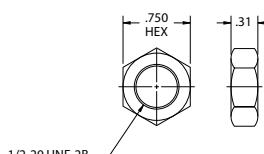
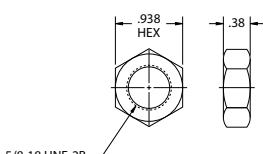
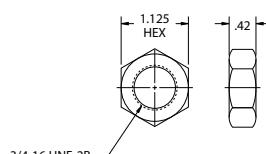
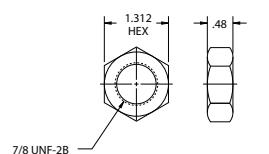
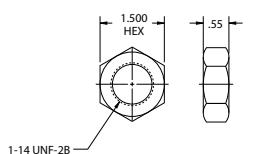
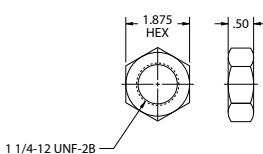
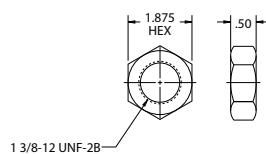
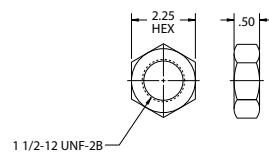
## Cylinder and Punch Assemblies



**Mounting Nuts****Mounting Nuts Included on Cylinder**

<b>Bore</b>	<b>S01</b>	<b>S02</b>	<b>D01</b>	<b>D02</b>	<b>D03</b>	<b>D04</b>	<b>DG1</b>	<b>DG2</b>	<b>N01</b>	<b>N02</b>	<b>R01</b>
0.313	Yes	No	Yes	No	Yes	Yes	N/A	N/A	N/A	N/A	Yes
0.438	Yes	No	Yes	No	Yes	Yes	N/A	N/A	Yes	No	Yes
0.563	Yes	No	Yes	No	Yes	Yes	N/A	N/A	Yes	No	Yes
0.750	Yes	No	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes
0.875	Yes	No	Yes	No	Yes	Yes	N/A	N/A	Yes	No	Yes
1.062	Yes	No	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes
1.250	Yes	No	Yes	No	Yes	Yes	N/A	N/A	Yes	No	Yes
1.500	Yes	No	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes
1.750	Yes	No	Yes	No	Yes	Yes	N/A	N/A	N/A	N/A	Yes
2.000	Yes	No	Yes	No	Yes	Yes	Yes	N/A	N/A	N/A	Yes
2.500	N/A	N/A	No	No	No	No	N/A	N/A	N/A	N/A	N/A
3.000	N/A	N/A	No	No	No	No	N/A	N/A	N/A	N/A	N/A

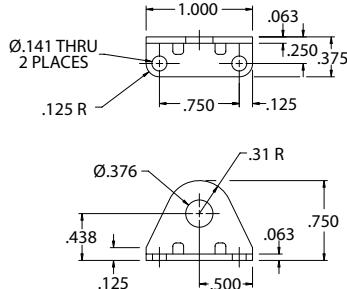
<b>Bore</b>	<b>R02</b>	<b>D05</b>	<b>D06</b>	<b>D13</b>	<b>DH3</b>	<b>DL1</b>	<b>DL2</b>	<b>DC1</b>	<b>DC2</b>	<b>DC3</b>
0.313	No	N/A								
0.438	No	N/A								
0.563	No	N/A								
0.750	No	No Thread	No Thread	N/A	N/A	N/A	N/A	No	No	No
0.875	No	N/A								
1.062	No	No Thread	No Thread	Yes	Yes	N/A	N/A	No	No	No
1.250	No	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A
1.500	No	No Thread	No Thread	N/A	Yes	N/A	N/A	No	No	No
1.750	No	N/A								
2.000	No	N/A	N/A	N/A	N/A	No	No	N/A	N/A	N/A
2.500	N/A									
3.000	N/A									

**M190001****M190002****M190003****M190004****M190005****M190006****M190007****M190008****M190009****M190012****M190013**

## Nose Mounting Brackets

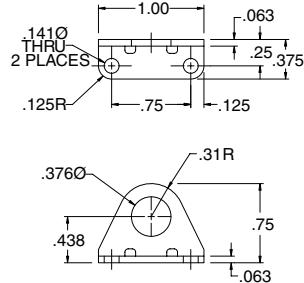
M117001

Single Acting 5/16" Bore



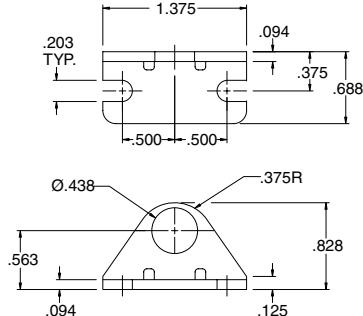
M117002

Double Acting 5/16" Bore



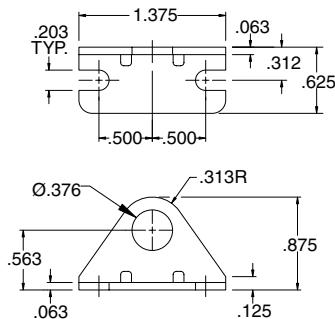
M117003

7/16" and 9/16" Bore



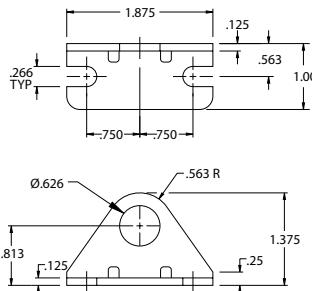
M117004

Single Acting 7/16" Bore



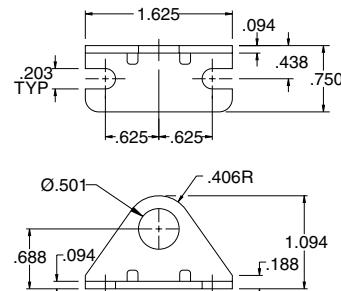
M117005

3/4", 7/8" and 1-1/16" Bore



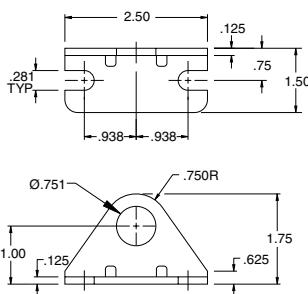
M117006

Single Acting 3/4" Bore



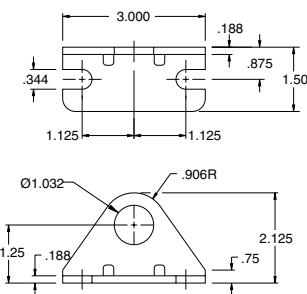
M117007

1-1/4" and 1-1/2" Bore



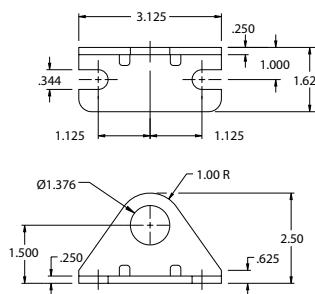
M117008

1-3/4" Bore



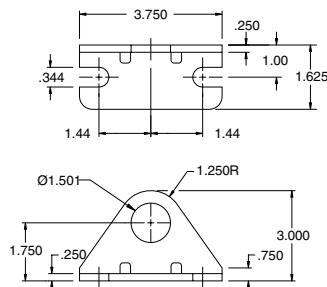
M117009

2" Bore



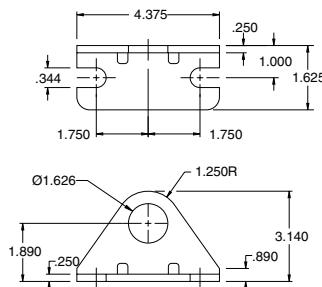
M117010

2-1/2" Bore



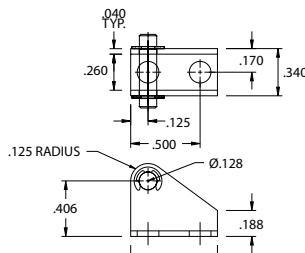
M117011

3" Bore

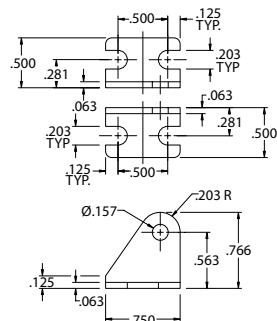


**Pivot Mounting Brackets****M129001**

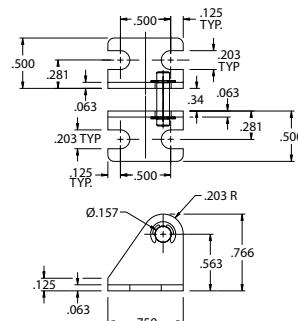
5/16" Bore

**M029002**

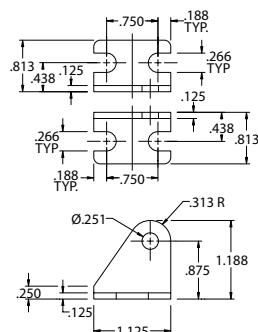
7/16" Bore

**M129002**

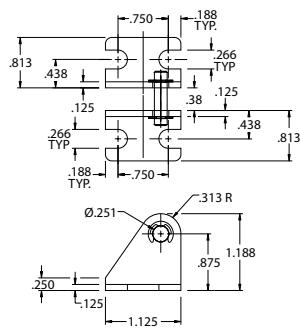
9/16" Bore

**M029003**

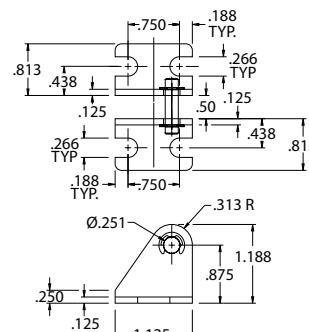
3/4", 7/8" and 1-1/16" Bore

**M129003**

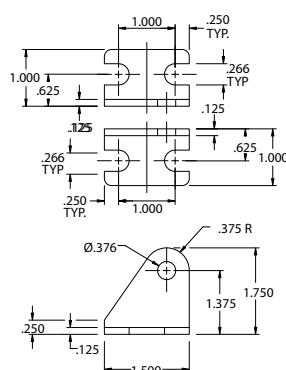
3/4", 7/8" and 1-1/16" Bore

**M229003**

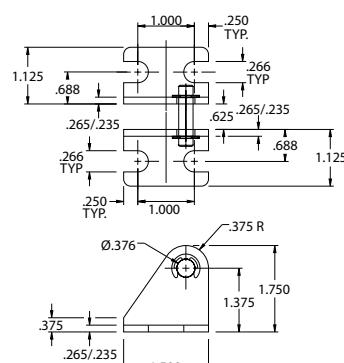
1-1/4" Bore

**M029004**

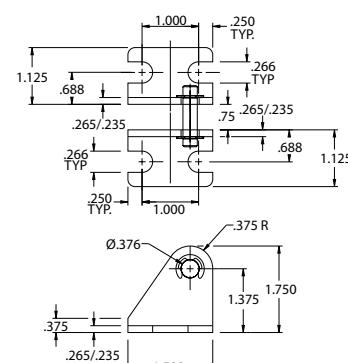
1-1/2" Bore

**M129005**

1-3/4" Bore

**M229005**

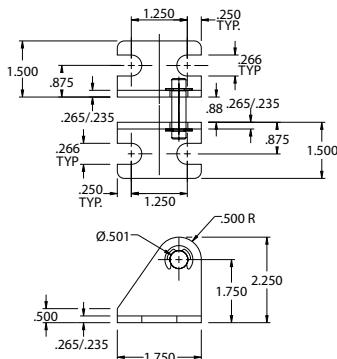
2 and 2-1/2" Bore



## Pivot Mounting Brackets

M229006

3" Bore

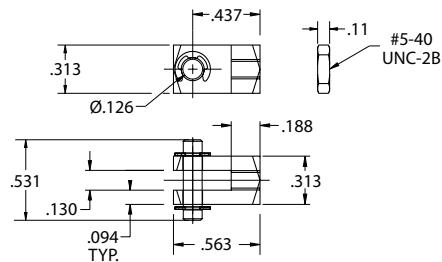


\* The "S" suffix indicates a 304 stainless steel part.

## Rod Clevis

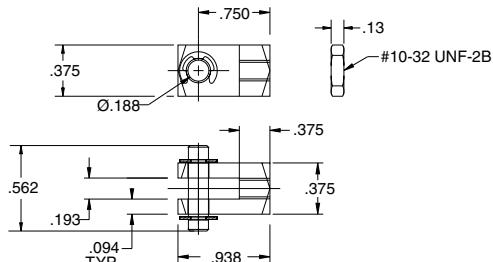
M127001

5/16" Bore



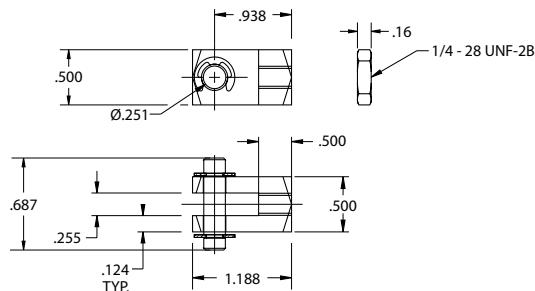
M127002

7/16" and 9/16" Bore



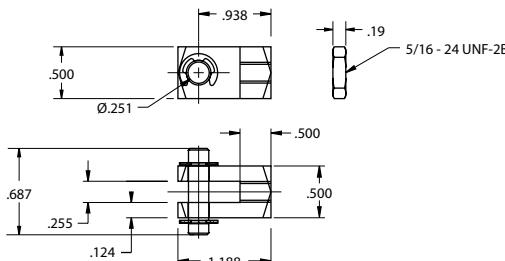
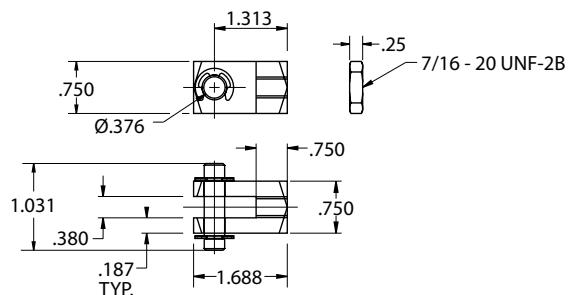
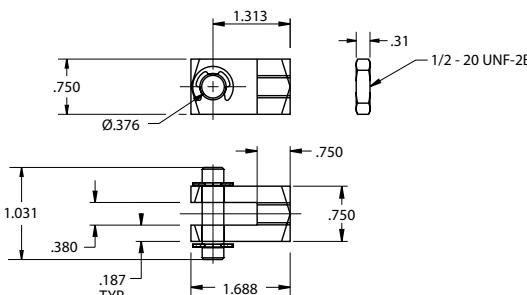
M127003

3/4" and 7/8" Bore



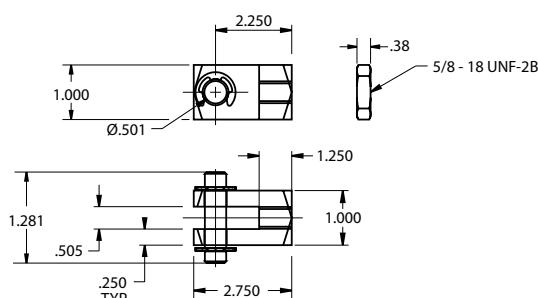
M127004

1-1/16" Bore

M127005  
1-1/4" and 1-1/2" BoreM127006  
1-3/4", 2" and 2-1/2" Bore

M127007

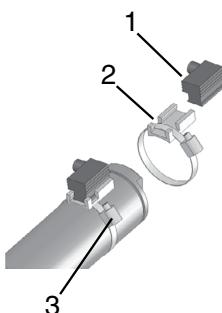
3" Bore



## M Series World Application Detail

## Profile Tube Detail

1. World Switch
2. Band Clamp Kit
3. Adjustment Screw



## M Series World Switch

Cylinders	Bore	Part Number
M Series Bracket Kit	9/16"	SBK056A
M Series Bracket Kit	3/4"	SBK075
M Series Bracket Kit	7/8" – 1-1/4"	SBK106
M Series Bracket Kit	1 1/2"	SBK150
M Series Bracket Kit	1-3/4" – 2"	SBK200
M Series Bracket Kit	2.5"	SBK250A
M Series Bracket Kit	3"	SBK300A

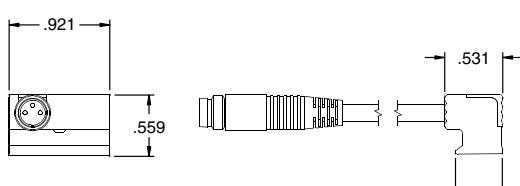
## M Series Switch Rails (W, X, Y, Z)

Cylinders	Bore	Part Number
M Series	All	Direct Fit w/included adapter

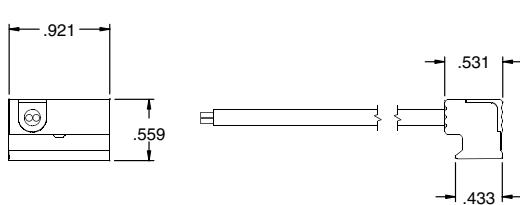
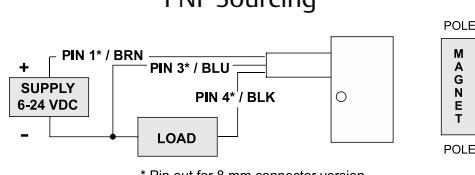
## M Series World Switch Hall Effect Part Numbers

P/N	Switch Style	Electrical Design	Output	Operating Voltage	Current Rating	Switching Power	Voltage Drop	NEMA IP Rating	Temperature Rating
SH6-031	Flying Lead	PNP	Normally Open	6-24 VDC	0.3 Amps Max.	7.2 Watts Max.	0.5 Volts	NEMA 6	-25° to 75° C
SH6-032	Flying Lead	NPN	Normally Open	6-24 VDC	0.3 Amps Max.	7.2 Watts Max.	0.5 Volts	NEMA 6	-25° to 75° C
SH6-021	M8 Connector	PNP	Normally Open	6-24 VDC	0.3 Amps Max.	7.2 Watts Max.	0.5 Volts	NEMA 6	-25° to 75° C
SH6-022	M8 Connector	NPN	Normally Open	6-24 VDC	0.3 Amps Max.	7.2 Watts Max.	0.5 Volts	NEMA 6	-25° to 75° C

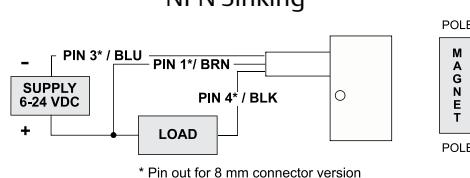
## Hall Effect Switch



## PNP Sourcing



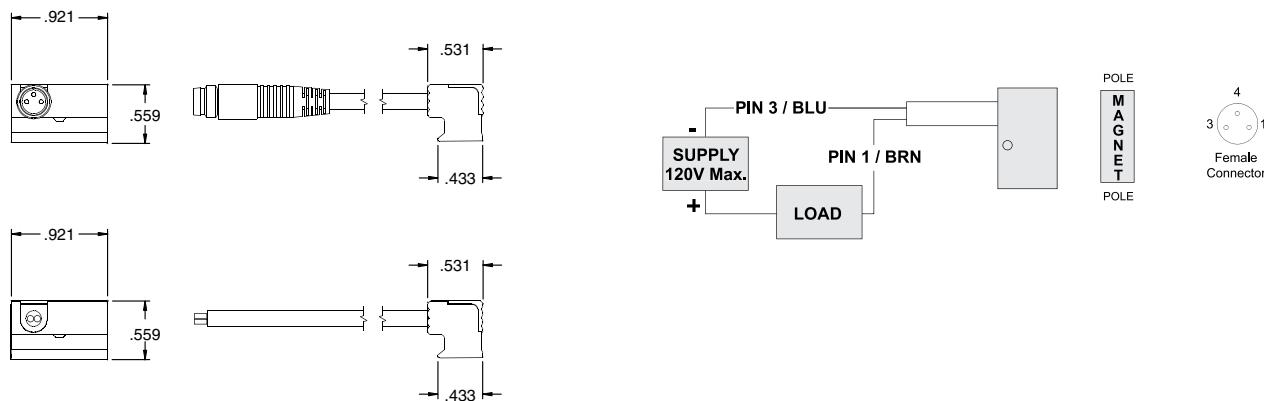
## NPN Sinking



## M Series World Switch Reed Switch Part Numbers

P/N	Switch Style	Electrical Design	Output	Operating Voltage	Current Rating	Switching Power	Voltage Drop	NEMA IP Rating	Temperature Rating
SR6-002	Flying Lead	AC/DC REED	Normally Open	5-120 VAC/DC	0.025 Amps Max. 0.001 Amps Min.	3 Watts Max.	3.5 Volts	NEMA 6	-25 °C to 75 °C
SR6-004	Flying Lead	AC/DC REED	Normally Open	5-120 VAC/DC	0.5 Amps Max. 0.005 Amps Min.	10 Watts Max.	3.0 Volts	NEMA 6	-25 °C to 75 °C
SR6-022	M8 Connector	AC/DC REED	Normally Open	5-50 VAC 5-60 VDC	0.025 Amps Max. 0.001 Amps Min.	12 Watts Max.	0.5 Volts	NEMA 6	-25 °C to 75 °C
SR6-024	M8 Connector	AC/DC REED	Normally Open	5-50 VAC 5-60 VDC	0.5 Amps Max. 0.005 Amps Min.	10 Watts Max.	3.0 Volts	NEMA 6	-25 °C to 75 °C

## Reed Switch – Normally Open Type SR6



## Non-Repairable Cylinders

## M Series

Bore	Bracket P/N
9/16"	P494AK129600A00
3/4"	P494AL129600A00
7/8"	P494AL129600A00
1-1/16"	P494A3129600A00
1-1/4"	P494A3129600A00
1-1/2"	P4995051700N001
1-3/4"	P494A4129600A00
2"	P494A4129600A00
2-1/2"	P4995051710N001
3"	P4995051720N001

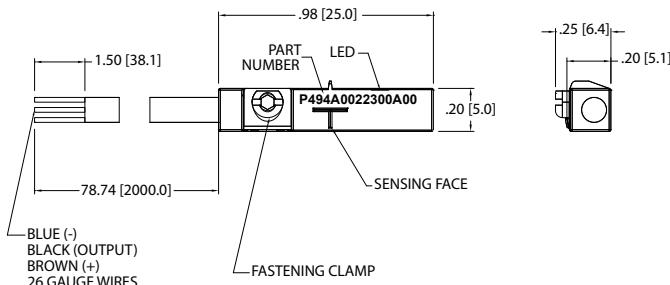


Sensor Description	Standard Cord Set	Quick Disconnect
Reed Switch	P494A0021300A00	P494A0021600A00
Hall PNP	P494A0022300A00	P494A0022600A00
Hall NPN	P494A0022400A00	P494A0022700A00

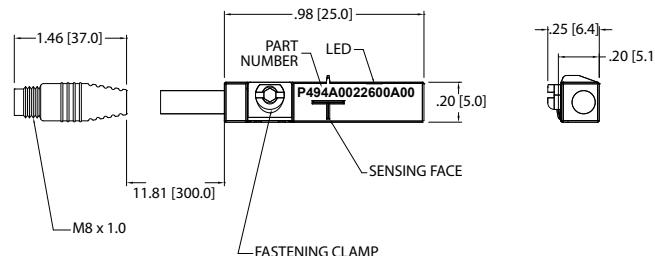
See page 58, 59, &amp; 60 for sensor specifications

## Sensing Part Numbers

P464A0022300A00



P494A0022600A00



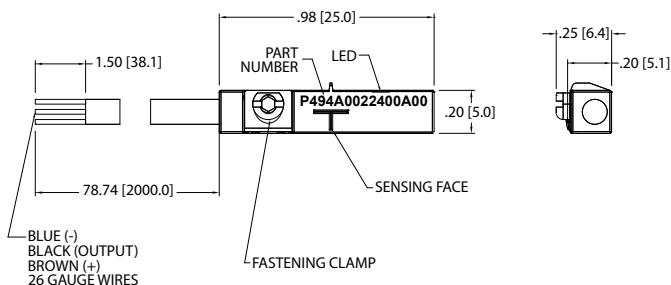
ELECTRICAL DESIGN	DC PNP
OUTPUT	Normally Open
OPERATING VOLTAGE	10-30 VDC
CURRENT RATING	100 mA
SHORT-CIRCUIT PROTECTION	Yes
OVERLOAD PROTECTION	Yes
REVERSE POLARITY PROTECTION	Yes
VOLTAGE DROP	< 2.5 V
CURRENT CONSUMPTION	< 12 mA
REPEATABILITY	< .2mm
POWER-ON DELAY TIME	< 30 ms
SWITCH FREQUENCY	> 3000 Hz
AMBIENT TEMPERATURE	-25 °C to 85 °C
PROTECTION	IP67, III
HYSTERESIS	1.0mm
MAGNETIC SENSITIVITY	2.0 mT
TRAVEL SPEED	> 10 m/s
HOUSING MATERIAL	PA (Polyamide) Black; Fastening Clamp: Stainless Steel
FUNCTION DISPLAY SWITCHING STATUS	Yellow LED
CONNECTION	Flying Leads, Pur Cable (2m Long, 3 x 26 Gauge Wire)
REMARKS	Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5 cULus - Class 2 Source Required
ACCESSORIES	Rubber Placeholder, Cable Clip, and Cut Sheet To Be Provided with Every Switch
AGENCY APPROVALS	

ELECTRICAL DESIGN	DC PNP
OUTPUT	Normally Open
OPERATING VOLTAGE	10-30 VDC
CURRENT RATING	100 mA
SHORT-CIRCUIT PROTECTION	Yes
OVERLOAD PROTECTION	Yes
REVERSE POLARITY PROTECTION	Yes
VOLTAGE DROP	< 2.5 V
CURRENT CONSUMPTION	< 12 mA
REPEATABILITY	< .2mm
POWER-ON DELAY TIME	< 30 ms
SWITCH FREQUENCY	> 3000 Hz
AMBIENT TEMPERATURE	-25 °C to 85 °C
PROTECTION	IP67, III
HYSTERESIS	1.0mm
MAGNETIC SENSITIVITY	2.0 mT
TRAVEL SPEED	> 10 m/s
HOUSING MATERIAL	PA (Polyamide) Black; Fastening Clamp: Stainless Steel
FUNCTION DISPLAY SWITCHING STATUS	Yellow LED
CONNECTION	M8 Connector (Snap Fit), Pur Cable (.3m)
REMARKS	Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5 cULus - Class 2 Source Required
ACCESSORIES	Rubber Placeholder, Cable Clip, and Cut Sheet To Be Provided with Every Switch
AGENCY APPROVALS	

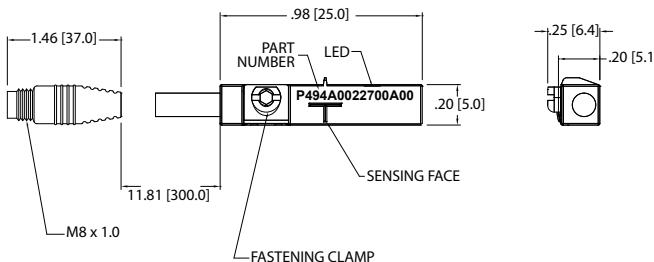
\*Switches are not designed for wet environments. Please see your distributor for additional information.

## Sensing Part Numbers

P494A0022400A00



P494A0022700A00

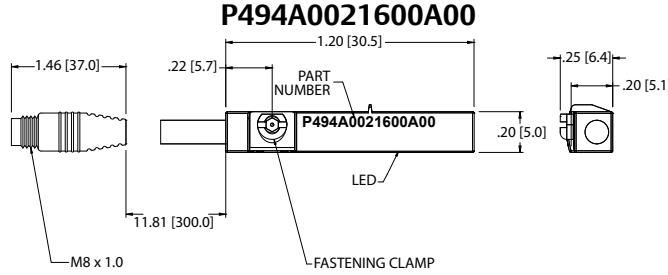
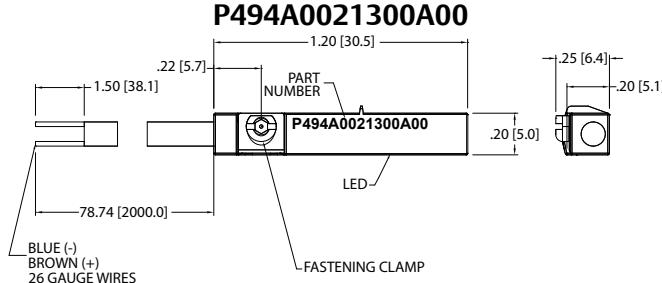


ELECTRICAL DESIGN	DC NPN
OUTPUT	Normally Open
OPERATING VOLTAGE	10-30 VDC
CURRENT RATING	100 mA
SHORT-CIRCUIT PROTECTION	Yes
OVERLOAD PROTECTION	Yes
REVERSE POLARITY PROTECTION	Yes
VOLTAGE DROP	< 2.5 V
CURRENT CONSUMPTION	< 12 mA
REPEATABILITY	<.2mm
POWER-ON DELAY TIME	< 30 ms
SWITCH FREQUENCY	> 3000 Hz
AMBIENT TEMPERATURE	-25 °C to 85 °C
PROTECTION	IP67, III
HYSTERESIS	1.0mm
MAGNETIC SENSITIVITY	2.0 mT
TRAVEL SPEED	> 10 m/s
HOUSING MATERIAL	PA (Polyamide) Black; Fastening Clamp: Stainless Steel
FUNCTION DISPLAY SWITCHING STATUS	Yellow LED
CONNECTION	Flying Leads, Pur Cable (2m Long, 3 x 26 Gauge Wire)
REMARKS	Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5 cULus - Class 2 Source Required
ACCESSORIES	Rubber Placeholder, Cable Clip, and Cut Sheet To Be Provided with Every Switch
AGENCY APPROVALS	

ELECTRICAL DESIGN	DC NPN
OUTPUT	Normally Open
OPERATING VOLTAGE	10-30 VDC
CURRENT RATING	100 mA
SHORT-CIRCUIT PROTECTION	Yes
OVERLOAD PROTECTION	Yes
REVERSE POLARITY PROTECTION	Yes
VOLTAGE DROP	< 2.5 V
CURRENT CONSUMPTION	< 12 mA
REPEATABILITY	<.2mm
POWER-ON DELAY TIME	< 30 ms
SWITCH FREQUENCY	> 3000 Hz
AMBIENT TEMPERATURE	-25 °C to 85 °C
PROTECTION	IP67, III
HYSTERESIS	1.0mm
MAGNETIC SENSITIVITY	2.0 mT
TRAVEL SPEED	> 10 m/s
HOUSING MATERIAL	PA (Polyamide) Black; Fastening Clamp: Stainless Steel
FUNCTION DISPLAY SWITCHING STATUS	Yellow LED
CONNECTION	M8 Connector (Snap Fit), Pur Cable (.3m)
REMARKS	Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5 cULus - Class 2 Source Required
ACCESSORIES	Rubber Placeholder, Cable Clip, and Cut Sheet To Be Provided with Every Switch
AGENCY APPROVALS	

\*Switches are not designed for wet environments. Please see your distributor for additional information.

## Sensing Part Numbers

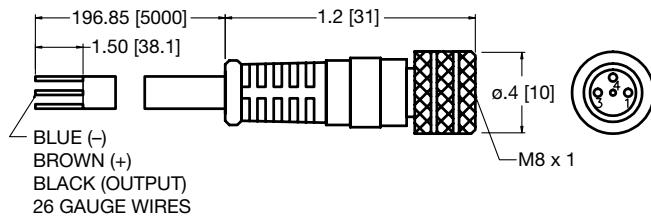


<b>ELECTRICAL DESIGN</b>	AC/DC REED
<b>OUTPUT</b>	Normally Open
<b>OPERATING VOLTAGE</b>	5-120 VAC/DC
<b>CURRENT RATING</b>	100 mA*
<b>SHORT-CIRCUIT PROTECTION</b>	No
<b>OVERLOAD PROTECTION</b>	No
<b>REVERSE POLARITY PROTECTION</b>	Yes
<b>VOLTAGE DROP</b>	< 5 V
<b>REPEATABILITY</b>	± .2mm
<b>MAKETIME INCLUDING BOUNCE</b>	< .6 ms
<b>BREAKTIME</b>	< .1 ms
<b>SWITCHING POWER (MAX)</b>	5 W
<b>SWITCH FREQUENCY</b>	1000 Hz
<b>AMBIENT TEMPERATURE</b>	-25 °C to 70 °C
<b>PROTECTION</b>	IP67, II
<b>HYSTERESIS</b>	.9mm
<b>HOUSING MATERIAL</b>	PA (Polyamide) Black; Fastening Clamp: Stainless Steel
<b>FUNCTION DISPLAY SWITCHING STATUS</b>	Yellow LED
<b>CONNECTION</b>	Flying Leads, Pur Cable (2m Long, 2 x 26 Gauge Wire)
<b>REMARKS</b>	*External Protective Circuit for Inductive Load (Valve, Contactor, Etc..) Necessary. Conforms to 2008 NEC Section 725 III, Class 2 Circuits Clamping Screw with Combined Slot/ Hexagon Socket Head AF 1.5. No LED Function in case of Polarity in DC Operation
<b>ACCESSORIES</b>	Rubber Placeholder, Cable Clip, and Cut Sheet To Be Provided with Every Switch
<b>AGENCY APPROVALS</b>	 

<b>ELECTRICAL DESIGN</b>	AC/DC REED
<b>OUTPUT</b>	Normally Open
<b>OPERATING VOLTAGE</b>	*5-60 VDC/5-50 VAC
<b>CURRENT RATING</b>	100 mA
<b>SHORT-CIRCUIT PROTECTION</b>	No
<b>OVERLOAD PROTECTION</b>	No
<b>REVERSE POLARITY PROTECTION</b>	Yes
<b>VOLTAGE DROP</b>	< 5 V
<b>REPEATABILITY</b>	± .2mm
<b>MAKETIME INCLUDING BOUNCE</b>	< .6 ms
<b>BREAKTIME</b>	< .1 ms
<b>SWITCHING POWER (MAX)</b>	5 W
<b>SWITCH FREQUENCY</b>	1000 Hz
<b>AMBIENT TEMPERATURE</b>	-25 °C to 70 °C
<b>PROTECTION</b>	IP67, II
<b>HYSTERESIS</b>	.9mm
<b>HOUSING MATERIAL</b>	PA (Polyamide) Black; Fastening Clamp: Stainless Steel
<b>FUNCTION DISPLAY SWITCHING STATUS</b>	Yellow LED
<b>CONNECTION</b>	M8 Connector (Snap Fit), Pur Cable (.3m)
<b>REMARKS</b>	*External Protective Circuit for Inductive Load (Valve, Contactor, Etc..) Necessary. Conforms to 2008 NEC Section 725 III, Class 2 Circuits M8 Connector voltage limited to 5-60 vdc/ 5-50 vac to conform with 2008 IEC 61076-2-104 Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5. No LED Function in case of Polarity in DC Operation
<b>ACCESSORIES</b>	Rubber Placeholder, Cable Clip, and Cut Sheet To Be Provided with Every Switch
<b>AGENCY APPROVALS</b>	 

\*Switches are not designed for wet environments. Please see your distributor for additional information.

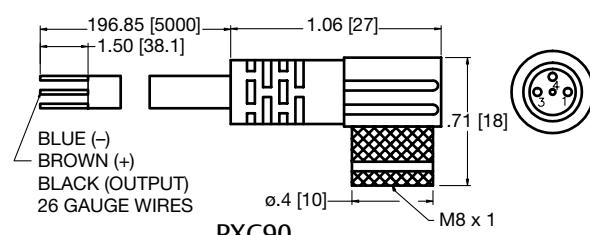
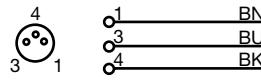
## Quick Disconnect Cables



PXCST

## Wiring

Core colors  
BK black  
BN brown  
BU blue



PXC90

Order Code	Type	Operating Voltage	Current Rating	Cable Material	Protection	Connector
PXCST	Straight 5m Cable (3 x 26 Gauge wire)	60 AC/75 DC	3 A	PUR	IP68, III	M8
PXC90	90° 5m Cable (3 x 26 Gauge wire)	60 AC/75 DC	3 A	PUR	IP68, III	M8

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