



Cylinders



M Series

Round Line, Non-Repairable Cylinder Line

We're everywhere you need us to be!



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M Series Round Line



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 Actuator Group 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 **pistons 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 are standard
- 304 stainless steel cylinder tube
- Aluminum head and caps
- Nominal pressure rating is 250 psi air
- Twelve bore sizes – 5/16" – 3"
- Standard temperature -10°F to +165°F
- Single and double acting
- Double rods

Optional Specifications:

- Magnetic pistons
- Adjustable cushions
- Delrin® end caps
- Double rods
- High and low temperature seals
- Rod wipers

Delrin® is a registered trade mark of Dupont. For detailed information regarding the properties of Delrin, please call 1-800-441-0573.



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 Delrin Nose Mount
DC2 = Double Acting Delrin Rear Pivot
DC3 = Double Acting Delrin Through Rod

Rod and/or Thread Extension

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

1A = Rod Extension (must specify extension)
Example: 1A01A (full and fractional length)
2A = Thread Extension (must specify extension)
Example: 2A01A (full and fractional length)
RT = Rod and Thread Extension (must specify extension)
Example: RT01A01A (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.

Options

00 = No Options (or leave blank)
01 = Bumpers*
02 = Viton Seals
03 = Magnet*
04 = Bumpers with Magnet*
05 = Pivot Bushing*
06 = Pivot Bushing with Bumpers*
07 = Pivot Bushing with Viton Seals
08 = Pivot Bushing with Magnet*
09 = Pivot Bushing with Bumper
and Magnet*

See page 5 for a comprehensive list of options.

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 for maximum stroke.

* Bumpers available on 9/16" through 3" Bore Cylinders. See specific drawing/section and/or length adder charts on page 6 for length adder information.

* Magnet available on 9/16" Bore. See specific drawing/section and/or length adder charts on page 4 for length adder information.

* Standard on 5/16", 9/16", 2", 2-21/2", and 3" bore sizes. Optional on all other Rear Pivot cylinders.



How To Order – Standard M Series Options

Standard M Series Options

01 = Bumpers	
02 = Viton® Seals	
03 = Magnet	
04 = Bumpers with Magnet	
05 = Pivot Bushing	Available with these mounting styles: D02, S02, R02, N02, DG2
06 = Pivot Bushing with Bumpers	
07 = Pivot Bushing with Viton 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	Rod Wiper option available on 3/4" Bore and Up. Not available with these mount styles: S01, S02, N01, N02
31 = Rod Wiper with Bumpers	
32* = Rod Wiper with Viton® 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 Viton® 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	Low Temperature Seals option available on 7/16" Bore and Up.
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	3/4" Bore and Up
400 = PolyPak Piston and Rod Seal	

* The rod wiper is Urethane except for 2" and 2-1/2" bores.

Note: Consult factory for additional options.

Viton® is a registered trade mark of Dupont. For detailed information regarding the properties of Viton®, please call 1-800-441-0573.

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-RT02A01I

2000 = 2" Bore
DG2 = Double Acting, Adjustable Cushion, Rear Pivot Mount
20 = 20" Stroke
H = .4375 Fractional Stroke
03 = Magnet
RT02A01I = 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	DELTRIN DC1, DC2
0.313	N/A	N/A	N/A
0.438	N/A	N/A	N/A
0.562	0.062	0.125	N/A
0.750	0.125	No Adder	0.281
0.875	No Adder	No Adder	N/A
1.062	0.125	0.125 (D03 = 0.250")	0.375
1.250	No Adder	No Adder	N/A
1.500	No Adder	0.125	0.375
1.750	No Adder	No Adder	N/A
2.000	No Adder	0.250	N/A
2.500	N/A	0.062	N/A
3.000	N/A	0.062	N/A

03 Option (Magnet)

BORE	SINGLE ACTING S01, S02, R01, R02 N01, N02	DOUBLE ACTING D01, D02, D03	DELTRIN DC1, DC2
0.313	N/A	N/A	N/A
0.438	N/A	N/A	N/A
0.562	0.531	0.250	N/A
0.750	0.688	No Adder	0.281
0.875	0.531	No Adder	N/A
1.062	0.562	No Adder	0.250
1.250	0.531	No Adder	N/A
1.500	0.437 (R01 = 0.500)	No Adder	0.250
1.750	0.656	No Adder	N/A
2.000	0.461 (R01 & R02 = 0.714)	No Adder	N/A
2.500	N/A	No Adder	N/A
3.000	N/A	No Adder	N/A

04 Option (Bumper and Magnet)

BORE	SINGLE ACTING S01, S02, R01, R02 N01, N02	DOUBLE ACTING D01, D02	DELTRIN DC1, DC2
0.313	N/A	N/A	N/A
0.438	N/A	N/A	N/A
0.562	0.713	0.375	N/A
0.750	0.890	0.125	0.406
0.875	0.733	0.125	N/A
1.062	0.765 (R01 = 0.687)	0.125 (D03 = 0.250")	0.375
1.250	0.734	0.125	N/A
1.500	0.765 (R01 = 0.827, N01 = 0.750)	0.250	0.500
1.750	0.735	0.000	N/A
2.000	0.789	0.250	N/A
2.500	N/A	0.062	N/A
3.000	N/A	0.062	N/A



M Series Round Line

5/16" Bore Cylinder

Single Acting Spring Return – **0313S01-00A**
Front Nose Mount

Standard Stroke Lengths:

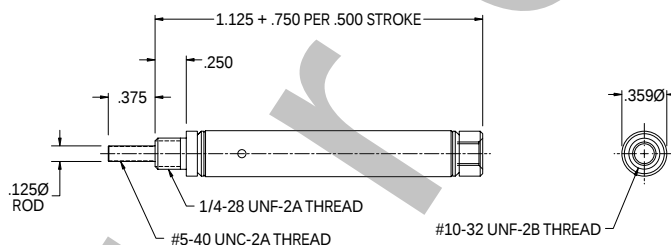
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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:

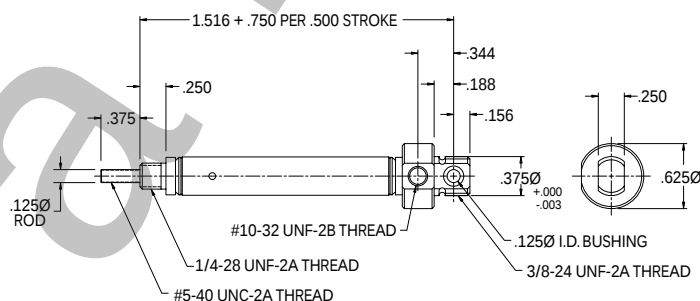
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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:

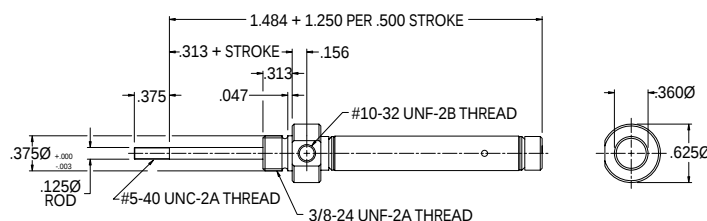
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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:

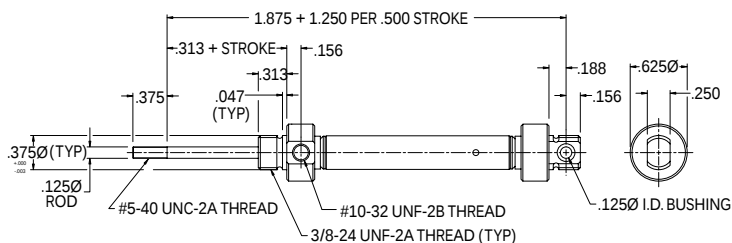
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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





M Series Round Line



5/16" Bore Cylinder

Double Acting – **0313D01-00A**

Front Nose Mount

Standard Stroke Lengths:

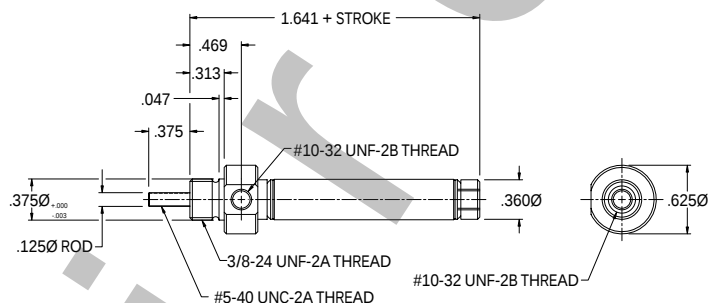
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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:

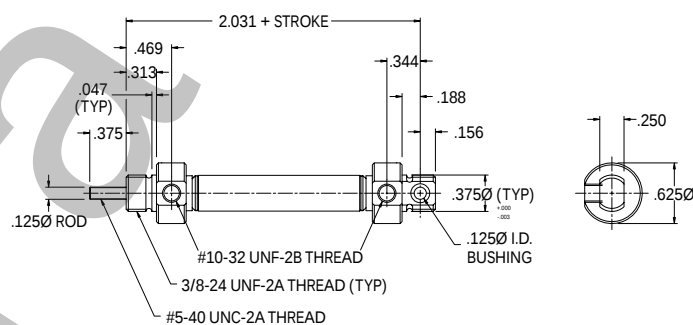
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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



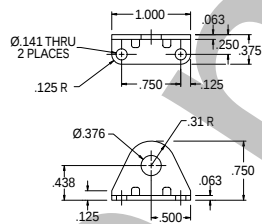
5/16" Bore Cylinder Specifications

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

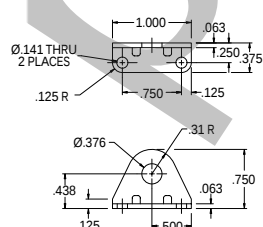
5/16" Bore Accessories

Nose Mounting Brackets

M117001

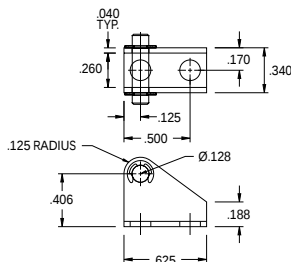


M117002



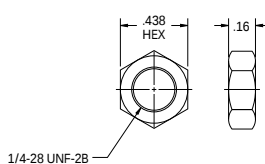
Pivot Mount Bracket

M129001



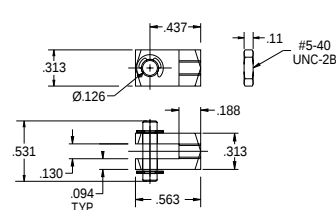
Mounting Nuts

M190001

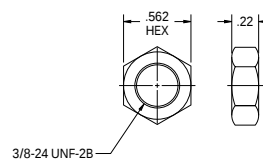


Rod Clevis

M127001



M190002





7/16" Bore Cylinder

Single Acting Spring Return – **0438S01-00A**
Front Nose Mount

Standard Stroke Lengths:

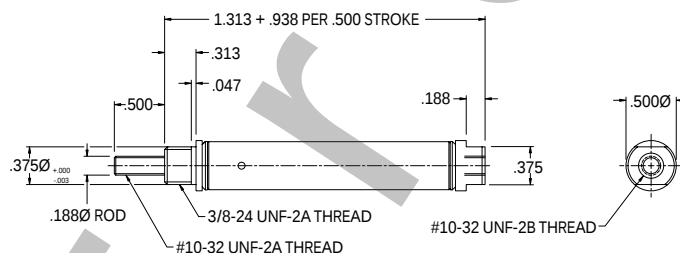
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M117004 Mounting Bracket
- M127002 Rod Clevis



Single Acting Spring Return – **0438S02-00A**
Rear Pivot Mount

Standard Stroke Lengths:

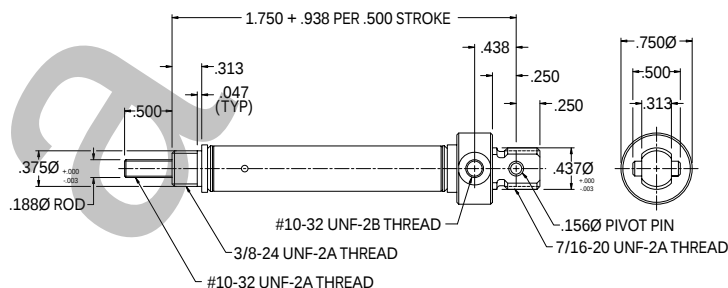
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M029002 Pivot Bracket
- M127002 Rod Clevis



Single Acting Spring Extend – **0438R01-00A**
Front Nose Mount

Standard Stroke Lengths:

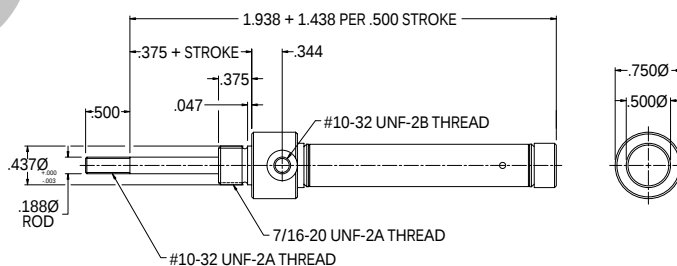
1/2", 1", 1-1/2", 2", 2-1/2", 3"

Maximum Stroke: 6"

Base Weight: .08 lbs., plus .03 lbs. per inch of stroke

*Optional Accessories:

- M117003 Mounting Bracket
- M127002 Rod Clevis



Single Acting Spring Extend – **0438R02-00A**
Rear Pivot Mount

Standard Stroke Lengths:

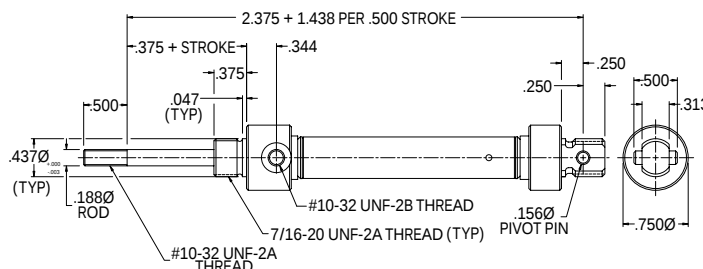
1/2", 1", 1-1/2", 2", 2-1/2", 3"

Maximum Stroke: 6"

Base Weight: .08 lbs., plus .03 lbs. per inch of stroke

*Optional Accessories:

- M029002 Pivot Bracket
- M127002 Rod Clevis





M Series Round Line



7/16" Bore Cylinder

Double Acting – **0438D01-00A**

Front Nose Mount

Standard Stroke Lengths:

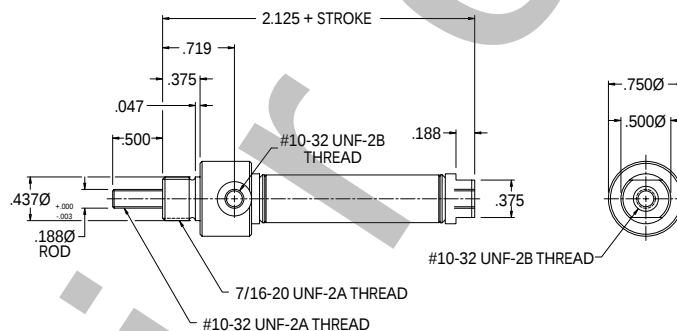
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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:

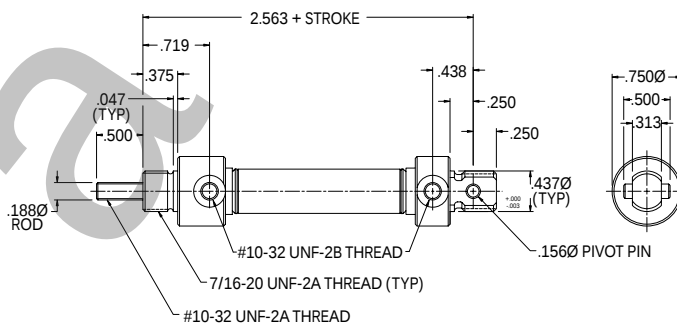
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 12"

Base Weight: .08 lbs., plus .02 lbs. per inch of stroke

*Optional Accessories:

- M029002 Pivot Bracket
- M127002 Rod Clevis



Single Acting Spring Return – **0438N01-00A**

Front Nose Mount **Non-Rotating**

Standard Stroke Lengths:

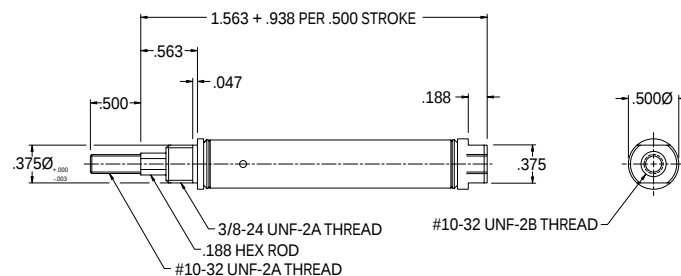
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M117004 Mounting Bracket
- M127002 Rod Clevis



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

Rear Pivot Mount **Non-Rotating**

Standard Stroke Lengths:

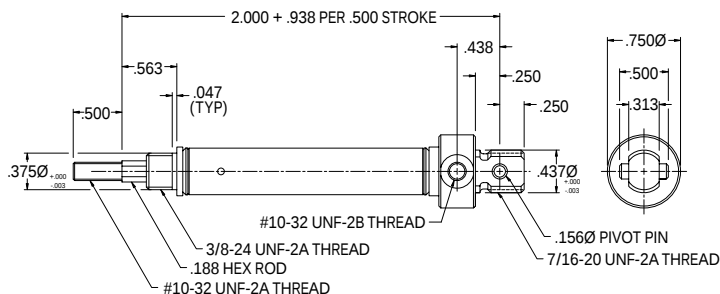
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M029002 Pivot Bracket
- M127002 Rod Clevis





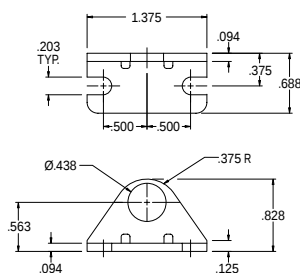
7/16" Bore Cylinder Specifications

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

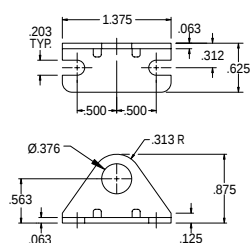
7/16" Bore Accessories

Nose Mounting Brackets

M117003

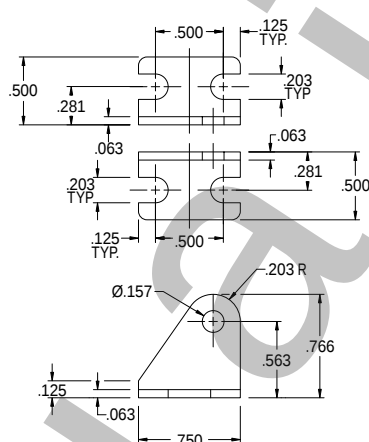


M117004



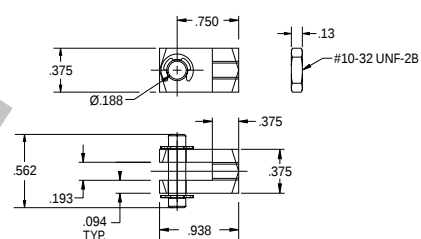
Pivot Mount Bracket

M029002



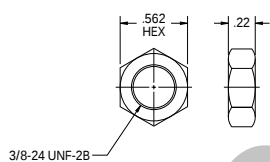
Rod Clevis

M127002

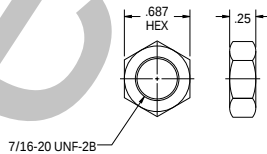


Mounting Nuts

M190002



M190003





9/16" Bore Cylinder

Single Acting Spring Return – **0563S01-00A**
Front Nose Mount

Standard Stroke Lengths:

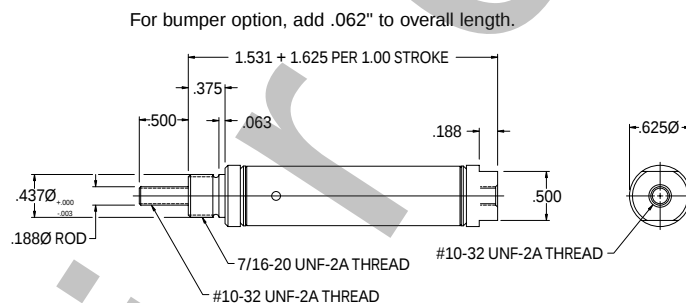
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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:

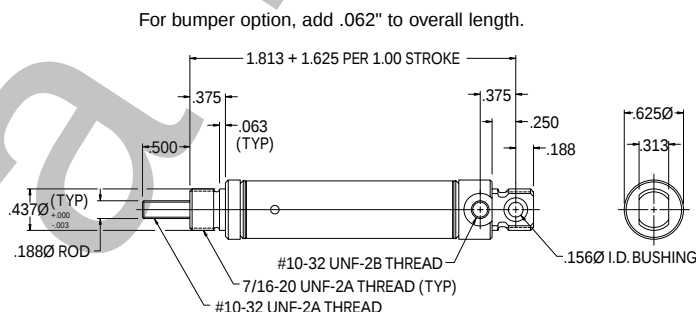
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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:

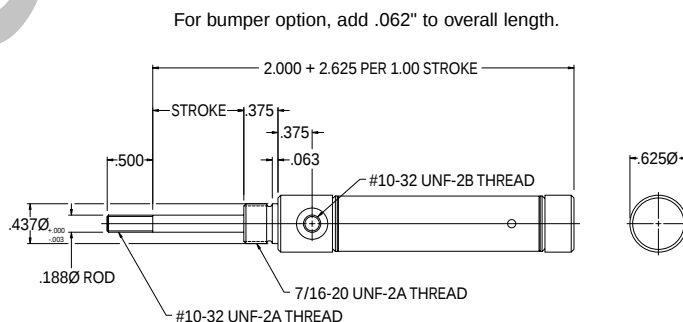
1/2", 1", 1-1/2", 2", 2-1/2", 3"

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:

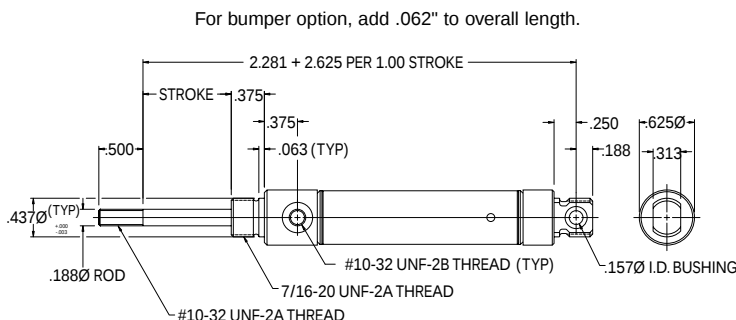
1/2", 1", 1-1/2", 2", 2-1/2", 3"

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



M Series
Round Line**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"

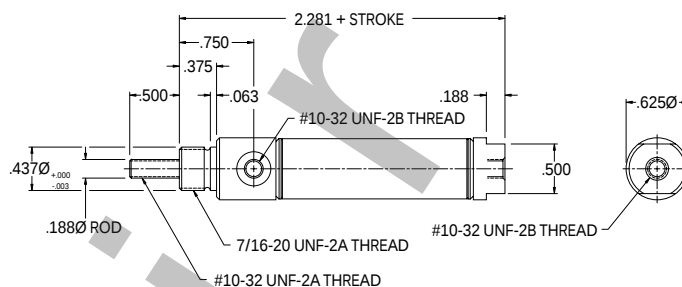
Maximum Stroke: 12"

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"

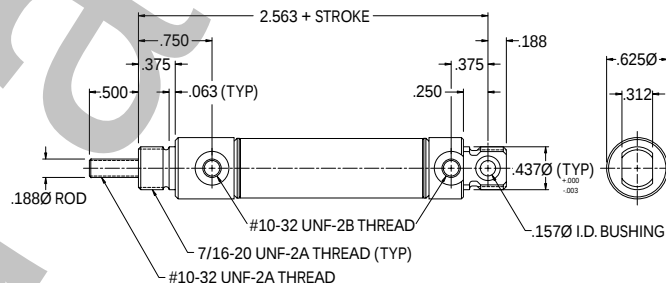
Maximum Stroke: 12"

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.

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

Standard Stroke Lengths:

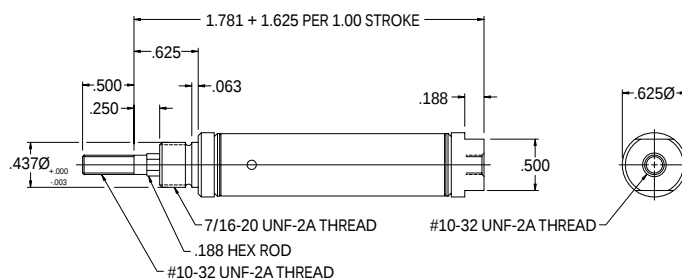
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M117003 Mounting Bracket
- M127002 Rod Clevis

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

Standard Stroke Lengths:

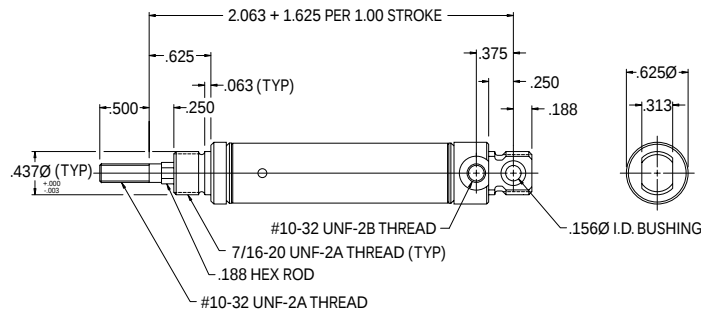
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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





M Series Round Line



9/16" Bore Cylinder

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

Standard Stroke Lengths:

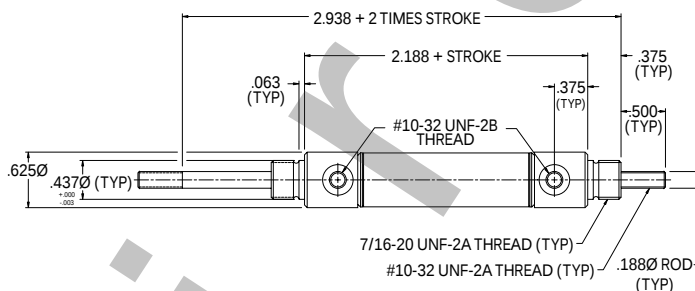
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

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

*Optional Accessories:

- M117003 Mounting Bracket
- M127002 Rod Clevis



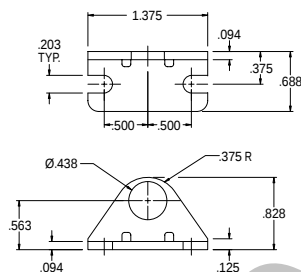
9/16" Bore Cylinder Specifications

- $(0.15) \times (\text{Air Line Pressure}) = \text{Approximate Force Extended}$
- Enclosed spring force: 2 lbs. retracted, 4 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- Viton® seals are optional on all cylinders for 200° - 350°F applications.
- Bumpers are optional on all 9/16" bore cylinders (except in combination with Viton® 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

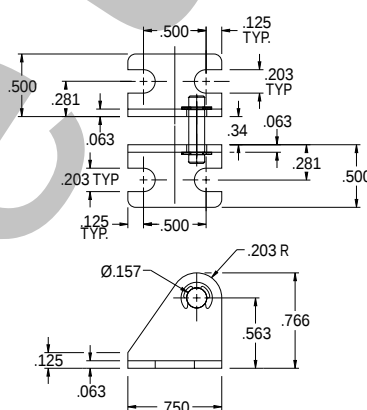
Nose Mounting Bracket

M117003



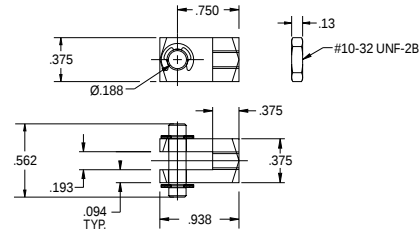
Pivot Mount Bracket

M129002



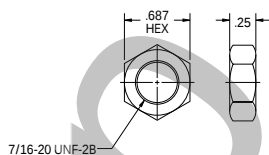
Rod Clevis

M127002



Mounting Nuts

M190003



M Series
Round Line**3/4" Bore Cylinder**

Single Acting Spring Return – **0750S01-00A**
Front Nose Mount

Standard Stroke Lengths:

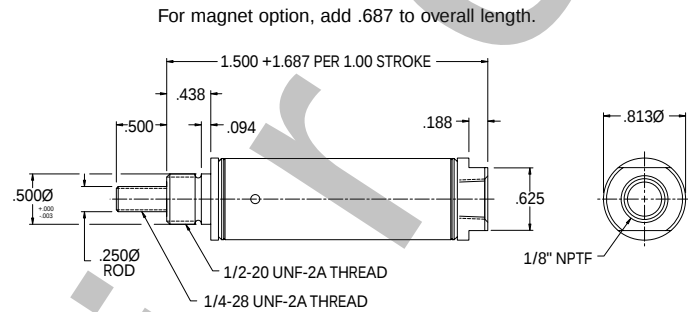
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M117006 Mounting Bracket
- M127003 Rod Clevis



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

Standard Stroke Lengths:

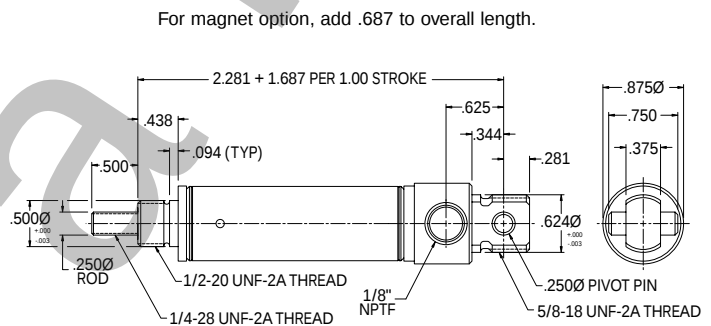
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M029003 Pivot Bracket
- M127003 Rod Clevis



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

Standard Stroke Lengths:

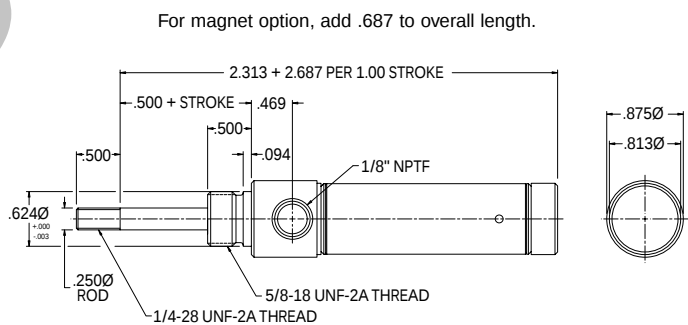
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M117005 Mounting Bracket
- M127003 Rod Clevis



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

Standard Stroke Lengths:

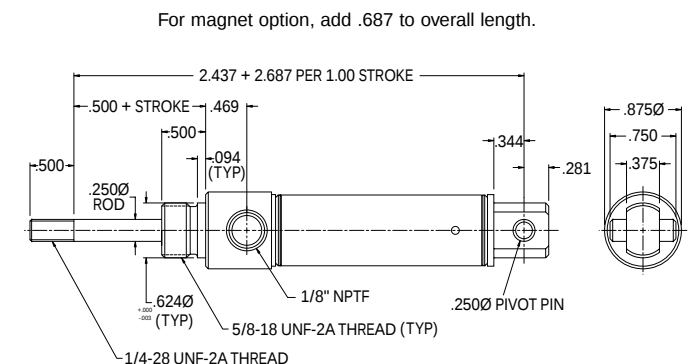
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M029003 Pivot Bracket
- M127003 Rod Clevis





3/4" Bore Cylinder

Double Acting – **0750D01-00A**

Front Nose Mount

Standard Stroke Lengths:

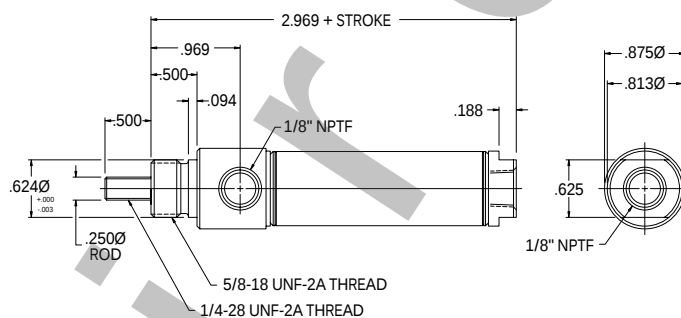
1/2", 1", 1-1/2" 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

Base Weight: .21 lbs., plus .03 lbs. per inch of stroke

*Optional Accessories:

- M117005 Mounting Bracket
- M127003 Rod Clevis



Double Acting – 0750D02-00A

Rear Pivot Mount

Standard Stroke Lengths:

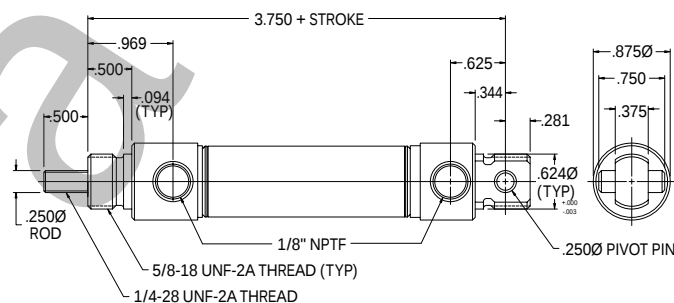
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

Maximum Stroke: 32"

Base Weight: .21 lbs., plus .03 lbs. per inch of stroke

***Optional Accessories:**

- M029003 Pivot Bracket
- M127003 Rod Clevis



Double Acting – 0750D04-00A

Double Nose or Rear Pivot Mount

Standard Stroke Lengths:

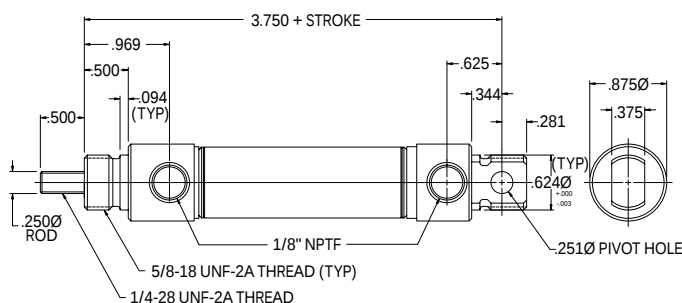
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

Maximum Stroke: 32"

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

*Optional Accessories:

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



Single Acting Spring Return – **0750N01-00A**

Front Nose Mount **Non-Rotating**

Standard Stroke Lengths:

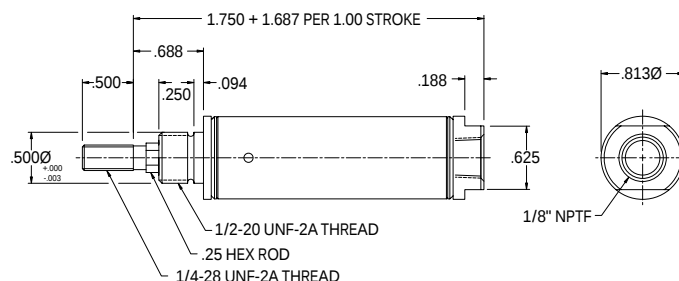
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

***Optional Accessories:**

- M117006 Mounting Bracket
- M127003 Rod Clevis





3/4" Bore Cylinder

Single Acting Spring Return – **0750N02-00A**
Rear Pivot Mount **Non-Rotating**

Standard Stroke Lengths:

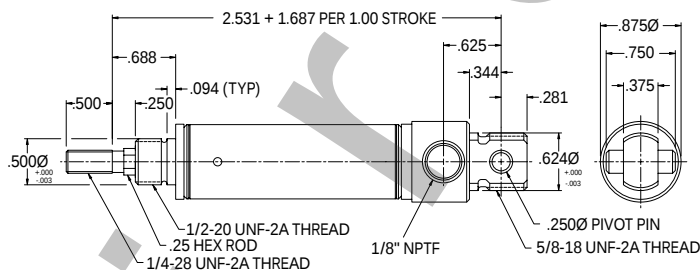
1/2", **1"**, 1-1/2", **2"**, 2-1/2", **3"**, 4"

Maximum Stroke: 6"

Base Weight: .12 lbs., plus .08 lbs. per inch of stroke

*Optional Accessories:

- M029003 Pivot Bracket
- M127003 Rod Clevis



Double Acting – **0750D03-00A** Through Rod

Standard Stroke Lengths:

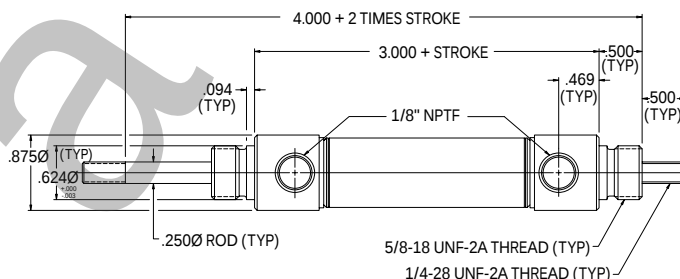
1/2", **1"**, 1-1/2", **2"**, 2-1/2", **3"**, **4"**, **5"**, **6"**

Maximum Stroke: 12"

Base Weight: .37 lbs., plus .04 lbs. per inch of stroke

*Optional Accessories:

- M117005 Mounting Bracket
- M127003 Rod Clevis



Double Acting – **0750D05-00A** Front Block Mount

Standard Stroke Lengths:

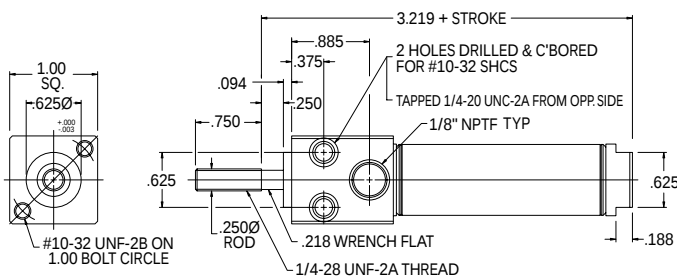
1/2", **1"**, 1-1/2", **2"**, 2-1/2", **3"**, **4"**, **5"**, **6"**

Maximum Stroke: 12"

Base Weight: .22 lbs., plus .03 lbs. per inch of stroke

*Optional Accessories:

- M127003 Rod Clevis



Double Acting – **0750D06-00A** Trunnion Mount

Standard Stroke Lengths:

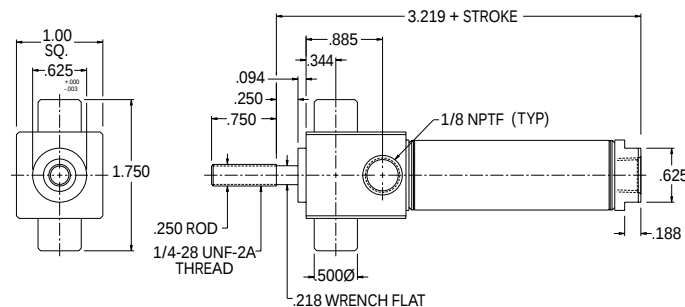
1/2", **1"**, 1-1/2", **2"**, 2-1/2", **3"**, **4"**, **5"**, **6"**

Maximum Stroke: 12"

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

*Optional Accessories:

- M029003 Pivot Bracket
- M127003 Rod Clevis





M Series Round Line



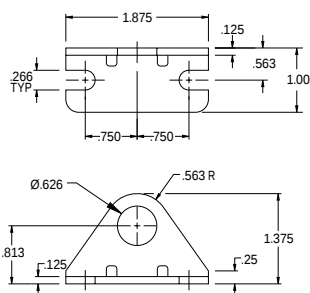
3/4" Bore Cylinder Specifications

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

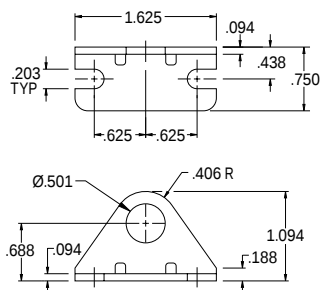
3/4" Bore Accessories

Nose Mounting Brackets

M117005

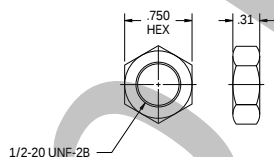


M117006

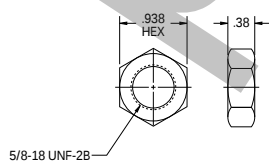


Mounting Nuts

M190004

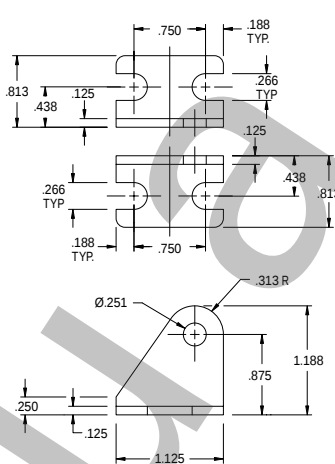


M190005

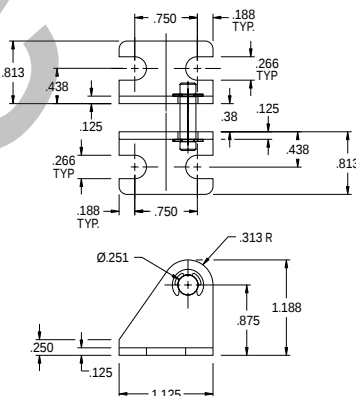


Pivot Mount Bracket

M029003

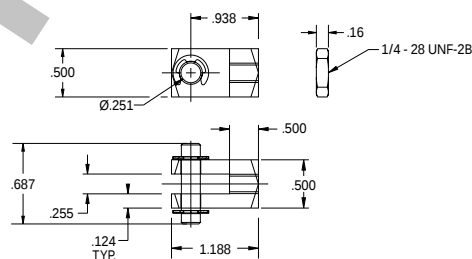


M129003



Rod Clevis

M127003





7/8" Bore Cylinder

Single Acting Spring Return – **0875S01-00A**
Front Nose Mount

Standard Stroke Lengths:

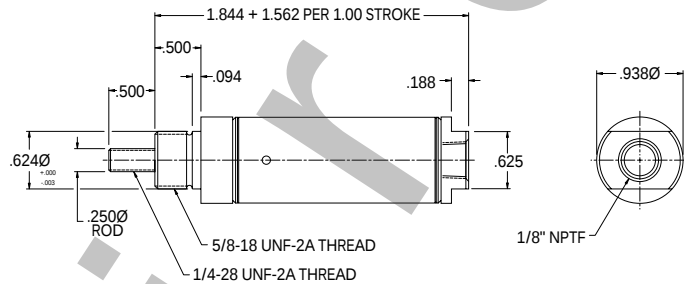
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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:

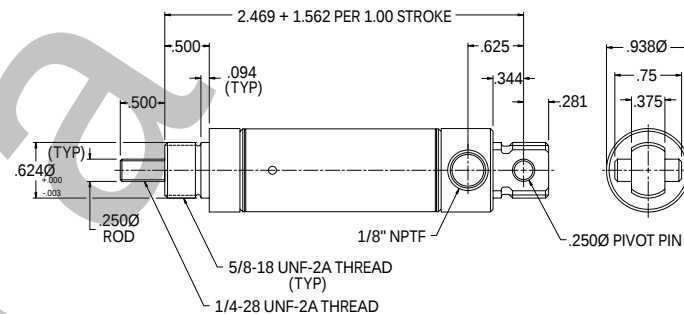
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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:

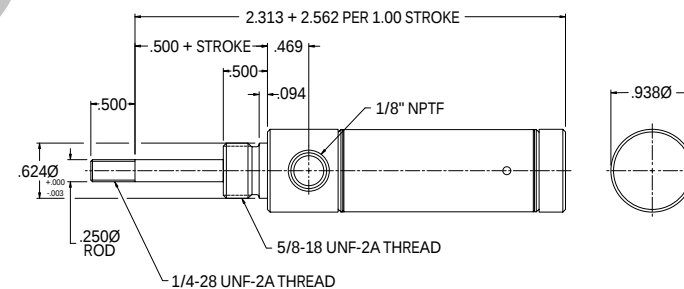
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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:

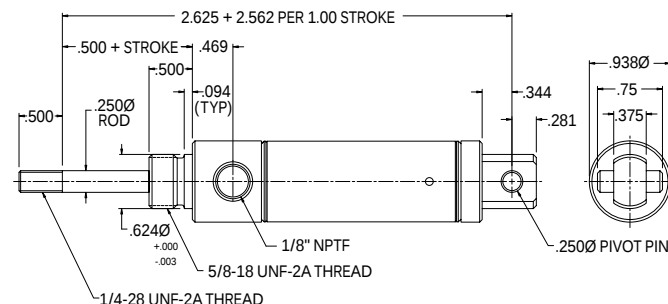
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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"

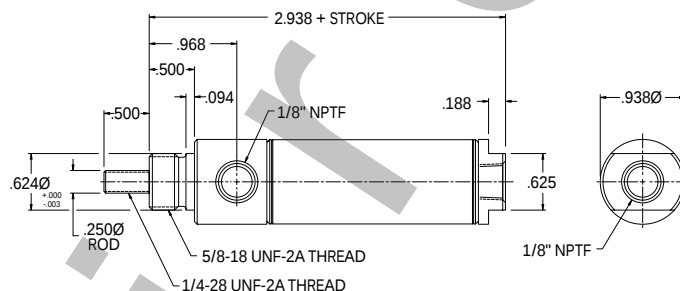
Maximum Stroke: 12"

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

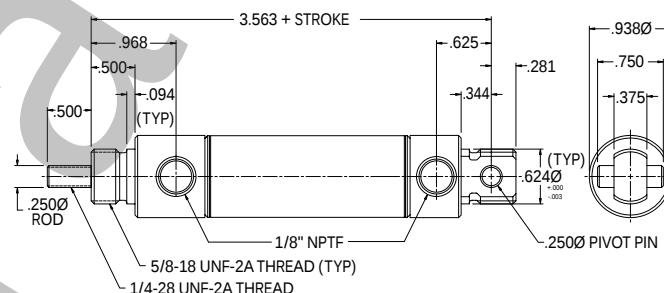
Maximum Stroke: 32"

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 – **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"

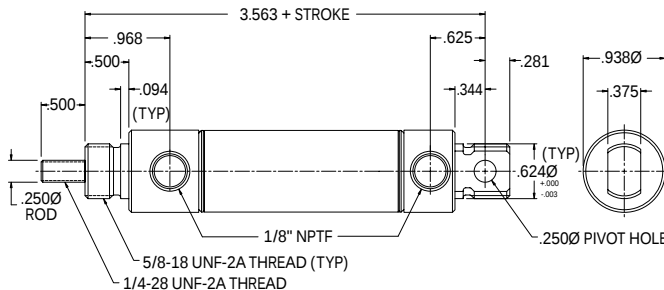
Maximum Stroke: 32"

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.



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

Front Nose Mount **Non-Rotating**

Standard Stroke Lengths:

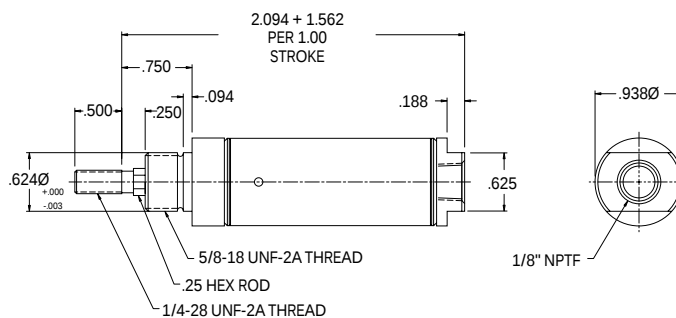
1/2", **1"**, 1-1/2", **2"**, 2-1/2", **3"**, 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M117005 Mounting Bracket
- M127003 Rod Clevis





7/8" Bore Cylinder

Single Acting Spring Extend – **0875N02-00A**
Rear Pivot Mount **Non-Rotating**

Standard Stroke Lengths:

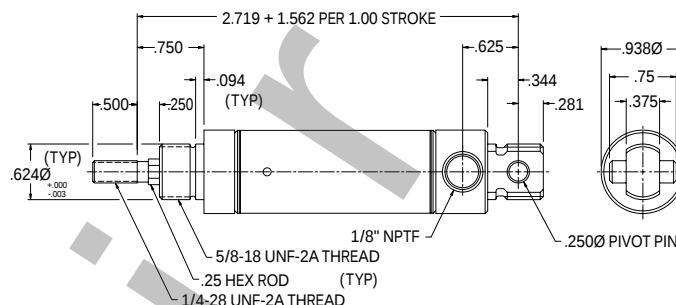
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M029003 Pivot Bracket
- M127003 Rod Clevis



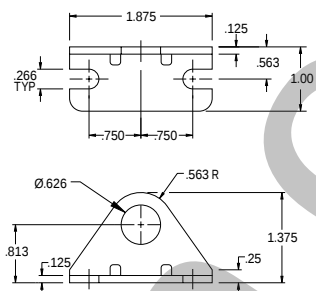
7/8" Bore Cylinder Specifications

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

7/8" Bore Accessories

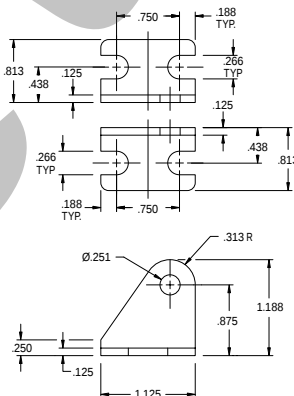
Nose Mounting Brackets

M117005



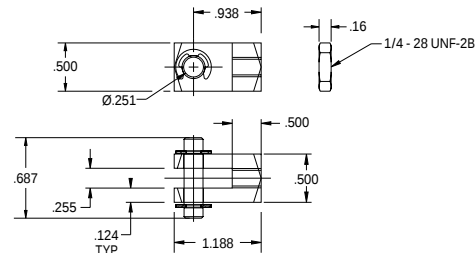
Pivot Mount Bracket

M029003



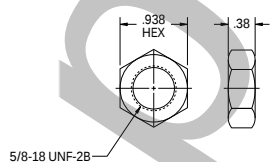
Rod Clevis

M127003

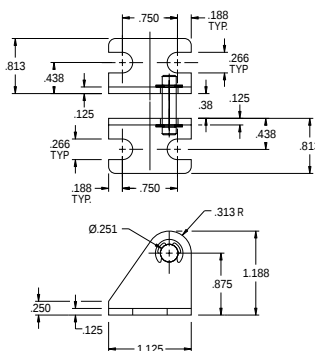


Mounting Nuts

M190005



M129003





M Series Round Line



1-1/16" Bore Cylinder

Single Acting Spring Return – **1062S01-00A**
Front Nose Mount

Standard Stroke Lengths:

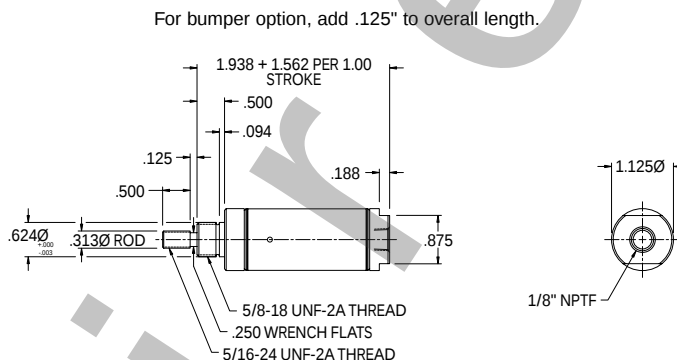
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 6"

Base Weight: .23 lbs., plus .11 lbs. per inch of stroke

*Optional Accessories:

- M117005 Mounting Bracket
- M127004 Rod Clevis



Single Acting Spring Return – **1062S02-00A**
Rear Pivot Mount

Standard Stroke Lengths:

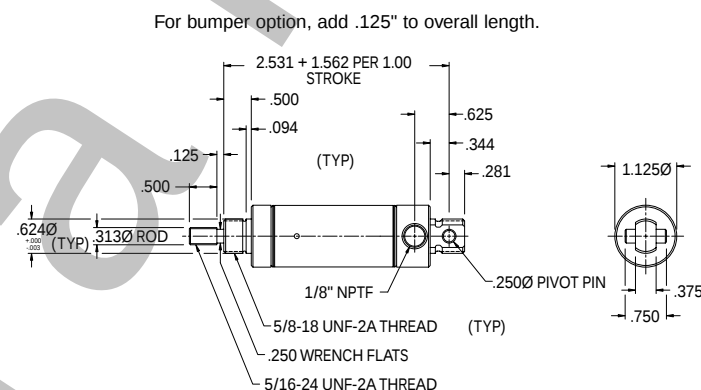
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .24 lbs., plus .11 lbs. per inch of stroke

*Optional Accessories:

- M029003 Pivot Bracket
- M127004 Rod Clevis



Single Acting Spring Extend – **1062R01-00A**
Front Nose Mount

Standard Stroke Lengths:

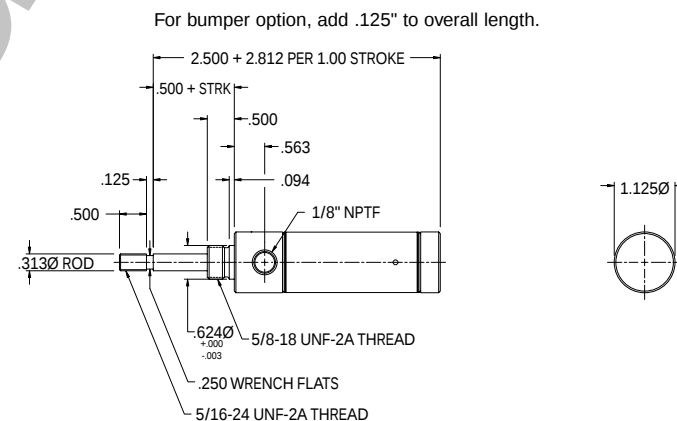
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .24 lbs., plus .16 lbs. per inch of stroke

*Optional Accessories:

- M117005 Mounting Bracket
- M127004 Rod Clevis



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

Standard Stroke Lengths:

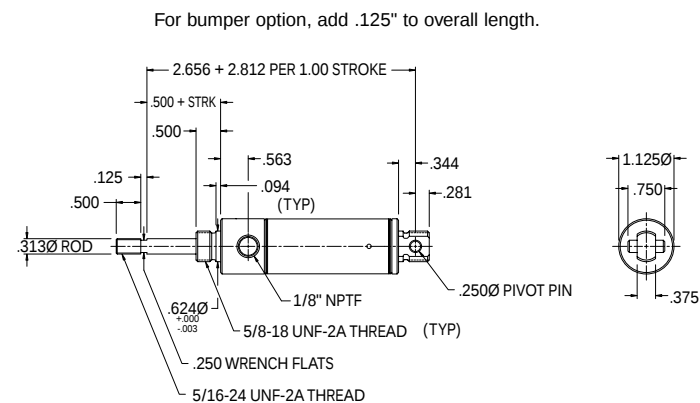
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M029003 Pivot Bracket
- M127004 Rod Clevis





M Series Round Line

1-1/16" Bore Cylinder

Double Acting – **1062D01-00A**

Front Nose Mount

Standard Stroke Lengths:

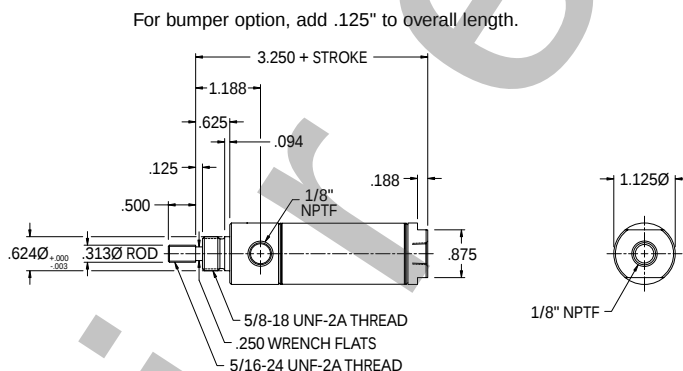
1/2", 1", 1-1/2" 2", 2-1/2", 3", 4", 5", 6"

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:

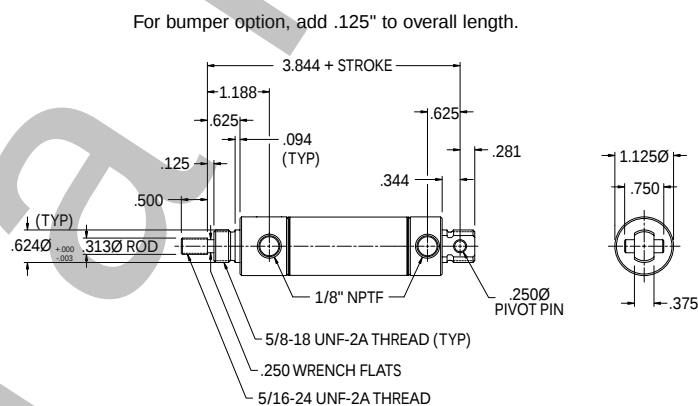
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", 7",
8", 9", 10", 11", 12"

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

Double Acting – **1062D04-00A**

Double Nose or Rear Pivot Mount

Standard Stroke Lengths:

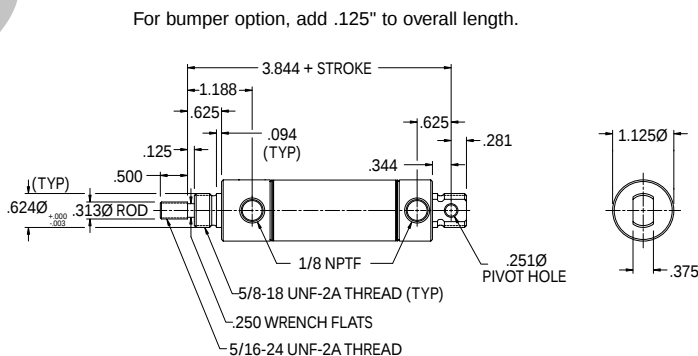
1/2", 1", 1-1/2" 2", 2-1/2", 3", 4", 5", 6", 7",
8", 9", 10", 11", 12"

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



Single Acting Spring Return – **1062N01-00A**

Front Nose Mount **Non-Rotating**

Standard Stroke Lengths:

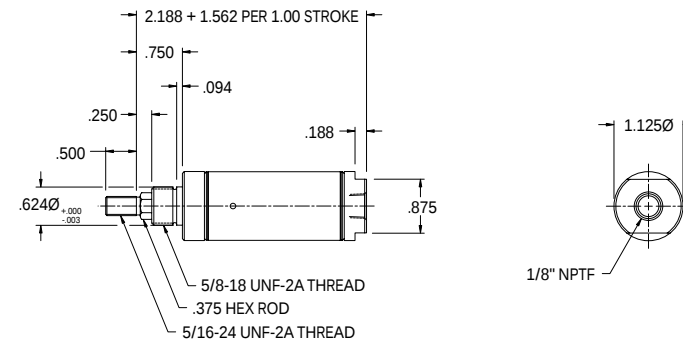
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .25 lbs., plus .12 lbs. per inch of stroke

*Optional Accessories:

- M117005 Mounting Bracket
- M127004 Rod Clevis





M Series Round Line



1-1/16" Bore Cylinder

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

Standard Stroke Lengths:

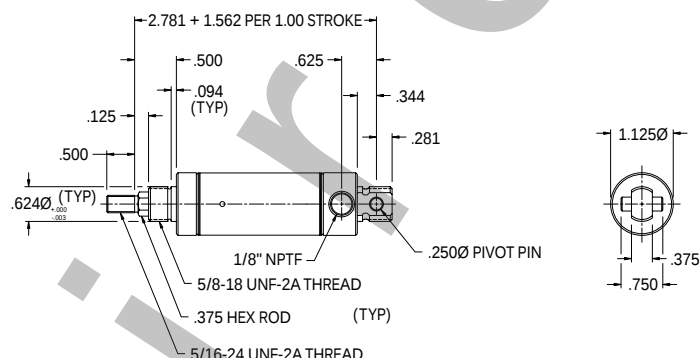
1/2", **1"**, 1-1/2", **2"**, 2-1/2", 3", **4"**

Maximum Stroke: 6"

Base Weight: .25 lbs.s., plus .12 lbs.s. per inch of stroke

*Optional Accessories:

- M029003 Pivot Bracket
- M127004 Rod Clevis



Double Acting – **1062D03-00A** Through Rod

Standard Stroke Lengths:

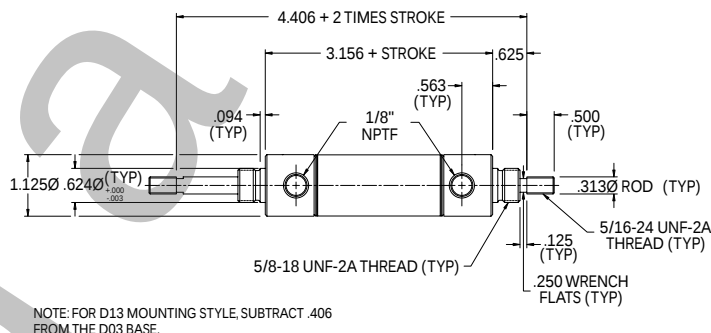
1/2", **1"**, 1-1/2", **2"**, 2-1/2", **3"**, **4"**, **5"**, **6"**

Maximum Stroke: 12"

Base Weight: .48 lbs.s., plus .07 lbs.s. per inch of stroke

*Optional Accessories:

- M117005 Mounting Bracket
- M127004 Rod Clevis



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

Double Acting – **1062DH3-00A** Through Rod Hollow Rod

Standard Stroke Lengths:

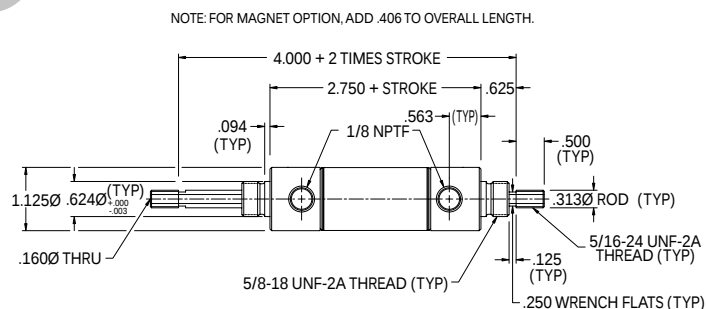
1/2", **1"**, 1-1/2", **2"**, 2-1/2", **3"**, **4"**, **5"**, **6"**

Maximum Stroke: 12"

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

*Optional Accessories:

- M117005 Mounting Bracket
- M127004 Rod Clevis



NOTE: FOR MAGNET OPTION, ADD .406 TO OVERALL LENGTH.

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

Standard Stroke Lengths:

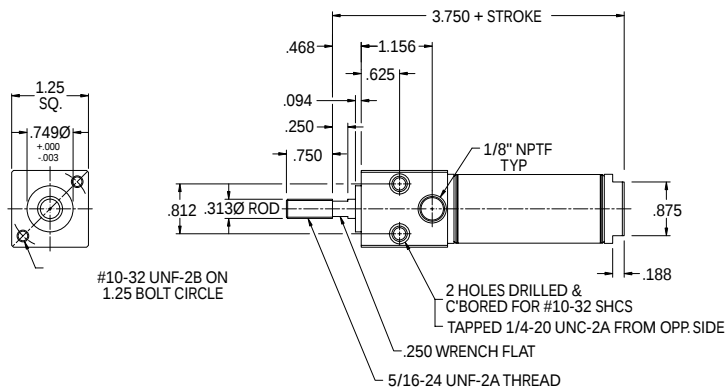
1/2", **1"**, **1-1/2"**, **2"**, 2-1/2", **3"**, **4"**, **5"**, **6"**

Maximum Stroke: 12"

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

*Optional Accessories:

- M127004 Rod Clevis





1-1/16" Bore Cylinder

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

Standard Stroke Lengths:

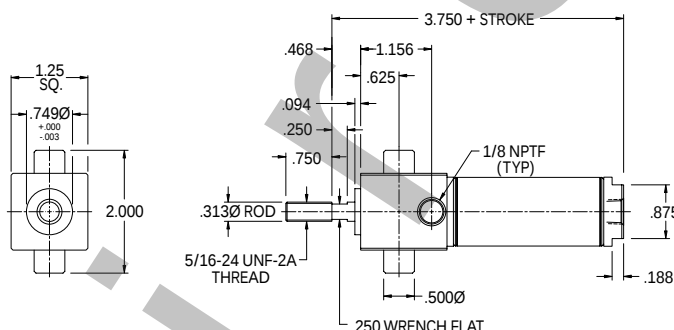
1/2", 1", 1-1/2", 2", **2-1/2"**, **3"**, 4", 5", 6"

Maximum Stroke: 12"

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

*Optional Accessories:

- M029006 Pivot Bracket
- M127004 Rod Clevis



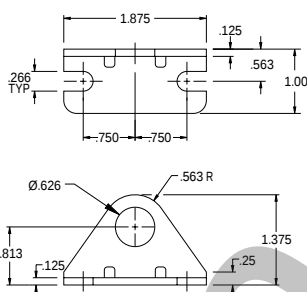
1-1/16" Bore Cylinder Specifications

- $(0.9) \times (\text{Air Line Pressure}) = \text{Approximate Force Exerted}$
- Enclosed spring force: 3 lbs. retracted, 6 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- Viton® seals are optional on all cylinders for 200° - 350°F applications.
- Bumpers are optional on all 1-1/16" bore cylinders (except in combination with Viton® option).
- Magnetic piston optional on all double acting 1-1/16" bore cylinders (except in combination with Viton® option).
- For bumper option, add .125" to overall length.
- Magnetic piston option on DH3 mount adds .406 to overall length. For D03 Mount, add 0.25" to overall length.

1-1/16" Bore Accessories

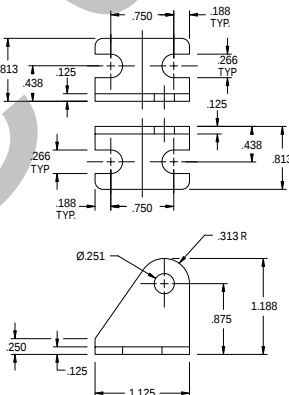
Nose Mounting Brackets

M117005



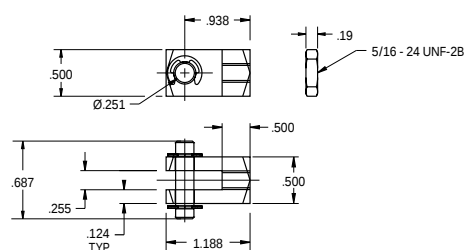
Pivot Mount Bracket

M029003



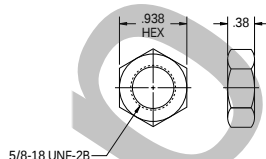
Rod Clevis

M127004

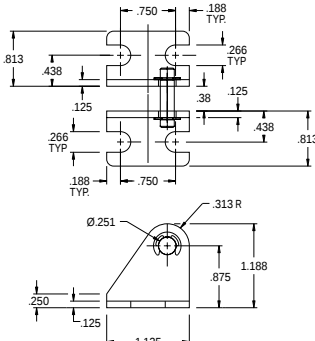


Mounting Nuts

M190005



M129003





1-1/4" Bore Cylinder

Single Acting Spring Return – **1250S01-00A**
Front Nose Mount

Standard Stroke Lengths:

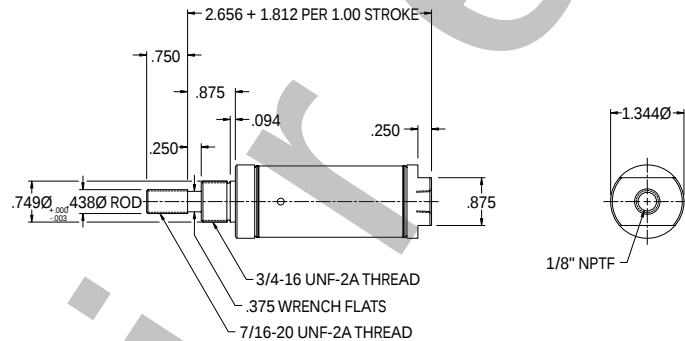
1/2", 1", 1-1/2" 2", 2-1/2", 3", 4"

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 Mount

Standard Stroke Lengths:

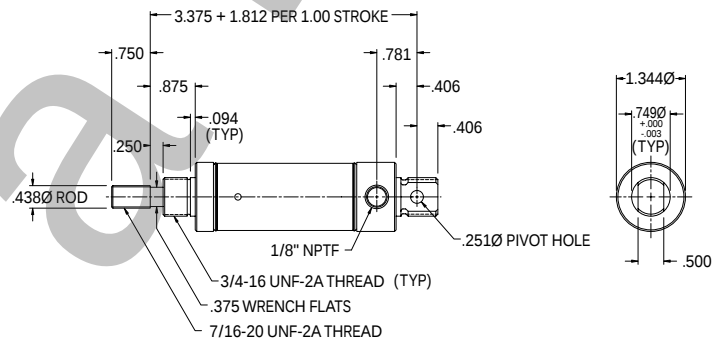
1/2", 1", 1-1/2" 2", 2-1/2", 3", 4"

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 Mount

Standard Stroke Lengths:

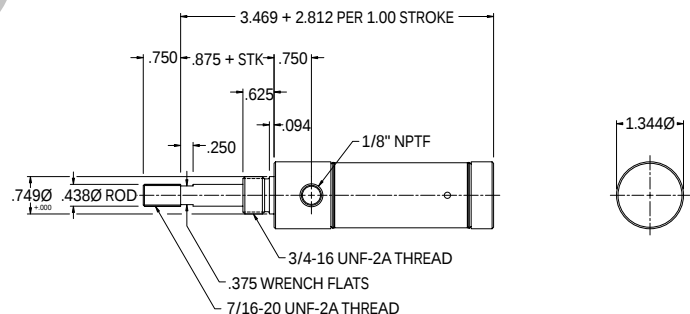
1/2", 1", 1-1/2" 2", 2-1/2", 3", 4"

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 Mount

Standard Stroke Lengths:

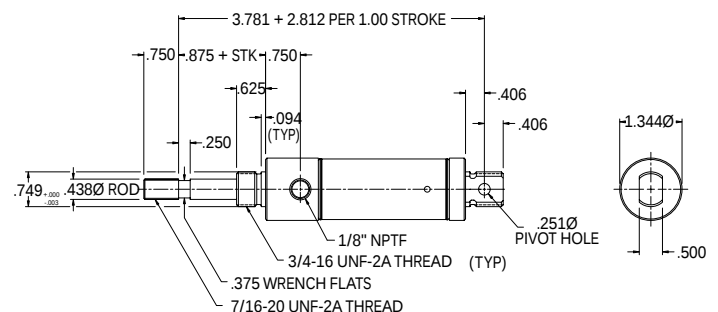
1/2", 1", 1-1/2" 2", 2-1/2", 3", 4"

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



M Series
Round Line**1-1/4" Bore Cylinder**Double Acting – **1250D01-00A**

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"

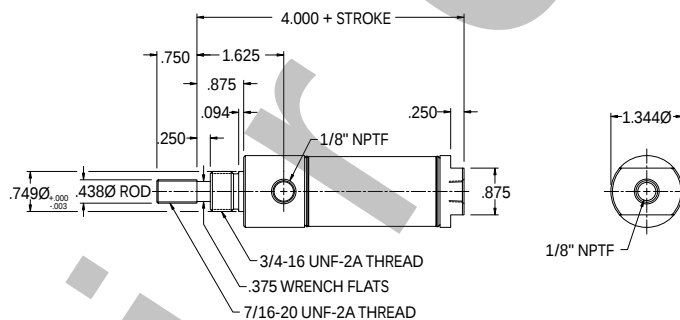
Maximum Stroke: 12"

Base Weight: .58 lbs., plus .08 lbs. per inch of stroke

*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis

For bumpers and magnetic band option add .125" to overall length.

**Double Acting – 1250D02-00A**

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"

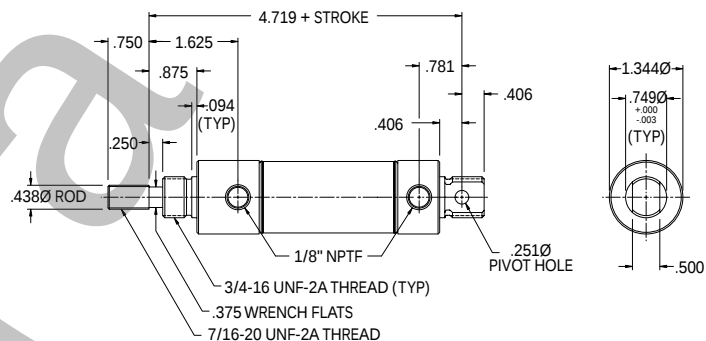
Maximum Stroke: 32"

Base Weight: .71 lbs., plus .08 lbs. per inch of stroke

*Optional Accessories:

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

For bumpers and magnetic band option add .125" to overall length.

**Single Acting Spring Return – 1250N01-00A**Front Nose Mount **Non-Rotating**

Standard Stroke Lengths:

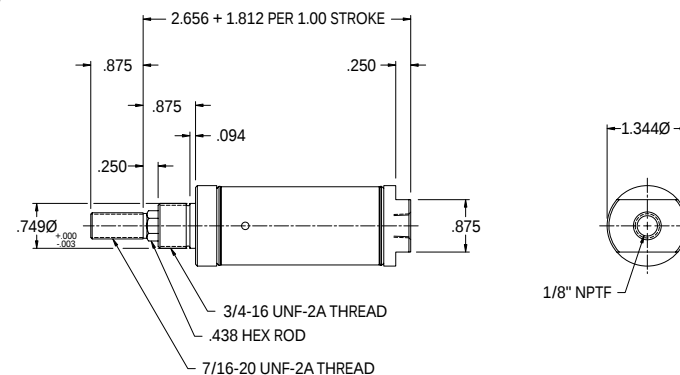
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .25 lbs., plus .12 lbs. per inch of stroke

*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis

**Single Acting Spring Extend – 1250N02-00A**Rear Pivot Mount **Non-Rotating**

Standard Stroke Lengths:

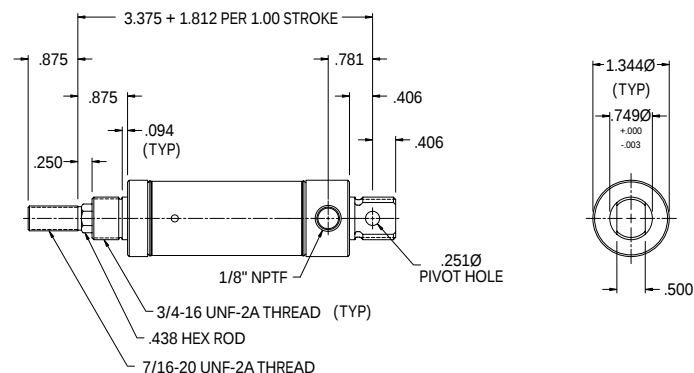
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .25 lbs., plus .12 lbs. per inch of stroke

*Optional Accessories:

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





M Series Round Line



1-1/4" Bore Cylinder

Double Acting – 1250D03-00A Through Rod

Standard Stroke Lengths:

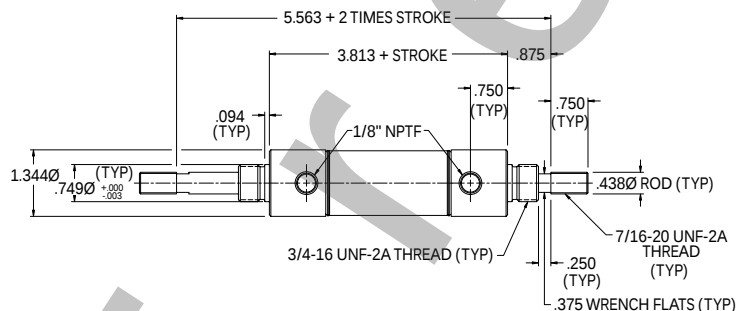
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

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:

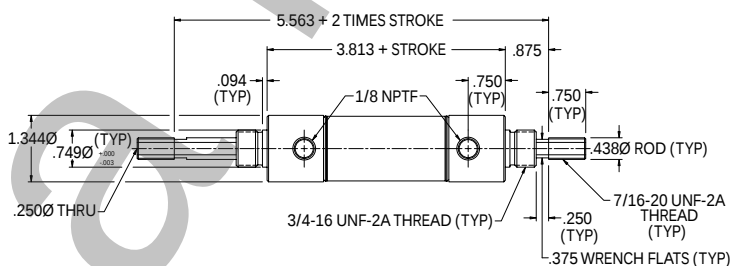
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

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

*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis

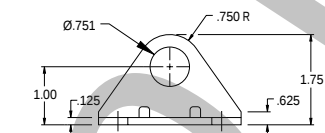
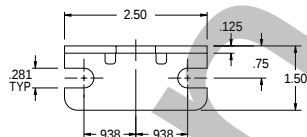


1-1/4" Bore Cylinder Specifications

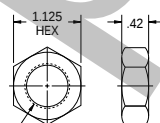
- (1.2) X (Air Line Pressure) = Approximate Force Exerted
- Enclosed spring force: 7.5 lbs. retracted, 15 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- Viton® seals are optional on all cylinders for 200° - 350°F applications.
- Bumpers are optional on all 1-1/4" bore cylinders (except in combination with Viton® option).
- Magnetic piston optional on all double acting 1-1/4" bore cylinders (except in combination with Viton® 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 M117007

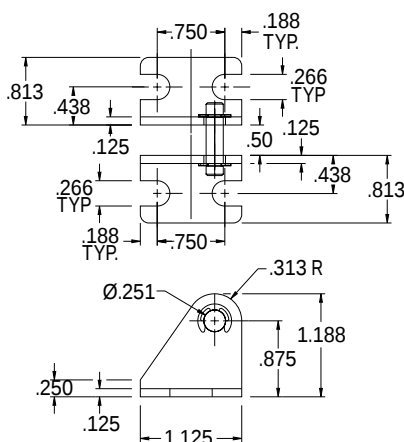


Mounting Nuts M190006

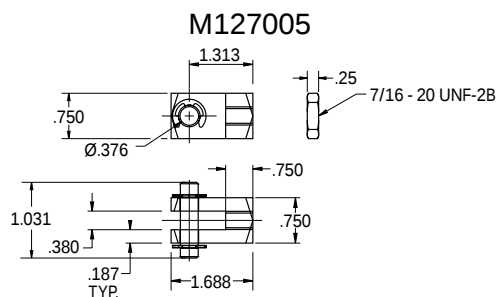


3/4-16 UNF-2B

Pivot Mount Bracket M229003



Rod Clevis M127005





M Series Round Line



1-1/2" Bore Cylinder

Single Acting Spring Return – **1500S01-00A**
Front Nose Mount

Standard Stroke Lengths:

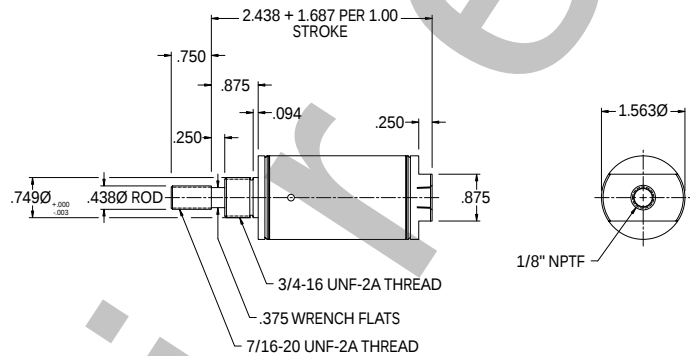
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .44 lbs., plus .22 lbs. per inch of stroke

*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis



Single Acting Spring Return – **1500S02-00A**
Rear Pivot Mount

Standard Stroke Lengths:

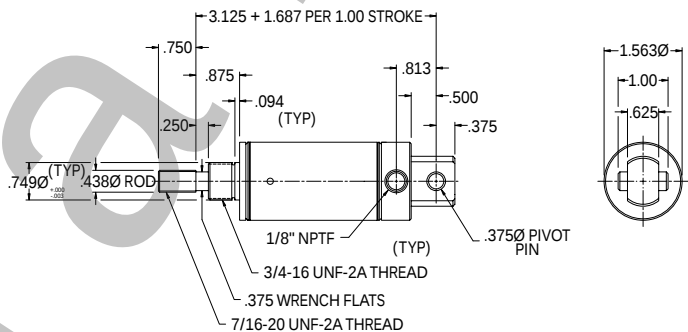
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M029004 Pivot Bracket
- M127005 Rod Clevis



Single Acting Spring Extend – **1500R01-00A**
Front Nose Mount

Standard Stroke Lengths:

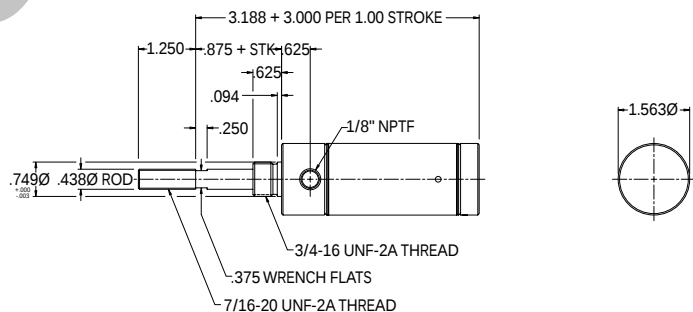
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

Base Weight: .44 lbs., plus .22 lbs. per inch of stroke

*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis



Single Acting Spring Extend – **1500R02-00A**
Rear Pivot Mount

Standard Stroke Lengths:

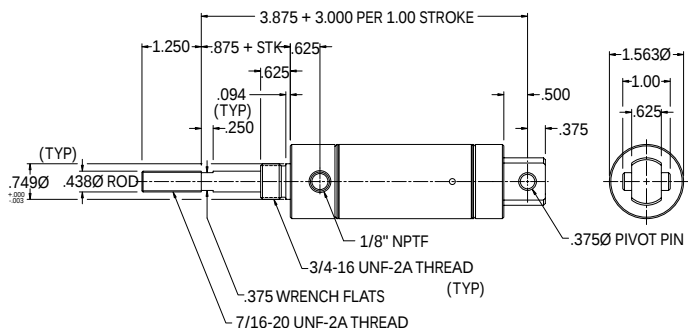
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M029004 Pivot Bracket
- M127005 Rod Clevis



1-1/2" Bore Cylinder

Double Acting – **1500D01-00A**

Front Nose Mount

Standard Stroke Lengths:

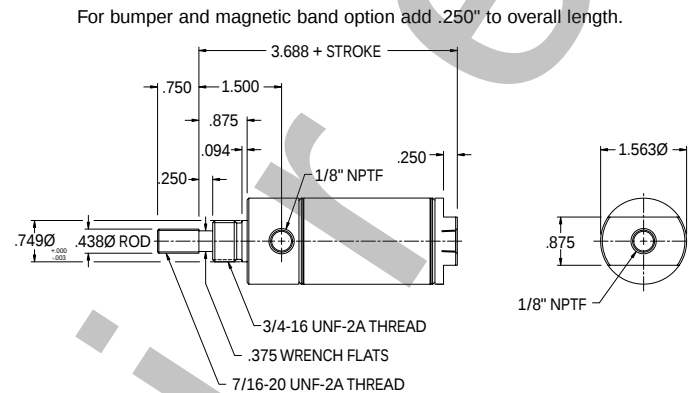
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", 7",
8", 9", 10", 11", 12"

Maximum Stroke: 12"

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

*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis

Double Acting – **1500D02-00A**

Rear Pivot Mount

Standard Stroke Lengths:

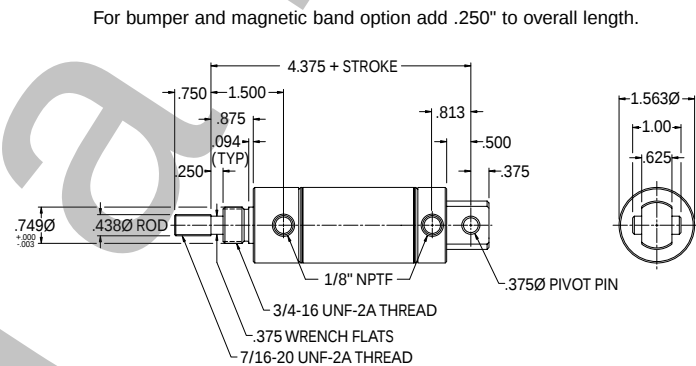
1/2", **1", 1-1/2", 2"**, 2-1/2", **3", 4", 5", 6", 7", 8"**, 9", 10", 11", 12"

Maximum Stroke: 32"

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

*Optional Accessories:

- M029004 Pivot Bracket
- M127005 Rod Clevis

Double Acting – **1500D04-00A**

Double Nose Mount

Standard Stroke Lengths:

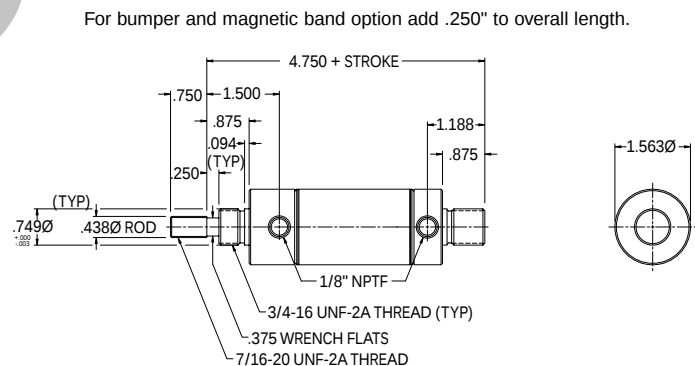
1/2", **1", 1-1/2", 2"**, 2-1/2", **3", 4", 5", 6", 7", 8"**, 9", 10", 11", 12"

Maximum Stroke: 32"

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

*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis



Single Acting Spring Return – **1500N01-00A**

Front Nose Mount **Non-Rotating**

Standard Stroke Lengths:

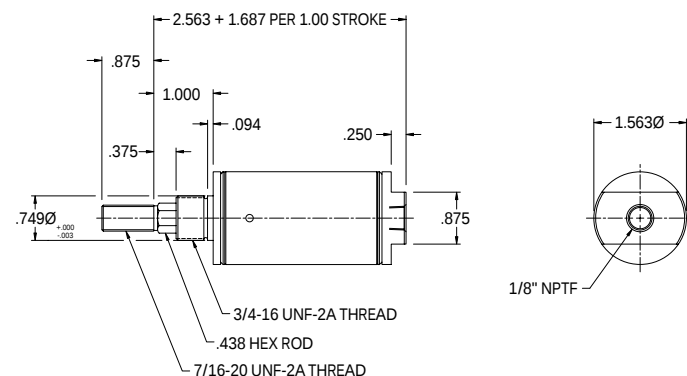
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis



M Series
Round Line**1-1/2" Bore Cylinder**

Single Acting Spring Return – **1500N02-00A**
Rear Pivot Mount **Non-Rotating**

Standard Stroke Lengths:

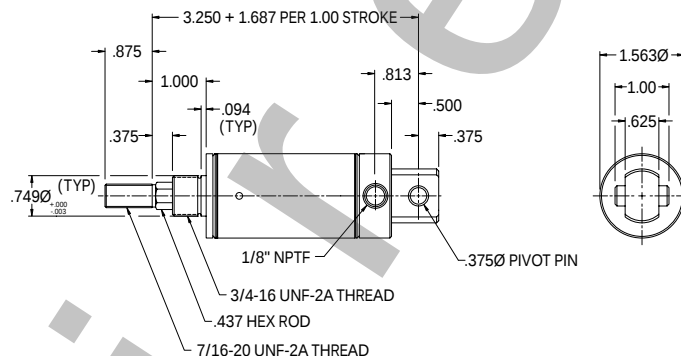
1/2", 1", 1-1/2", **2"**, 2-1/2", 3", 4"

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:

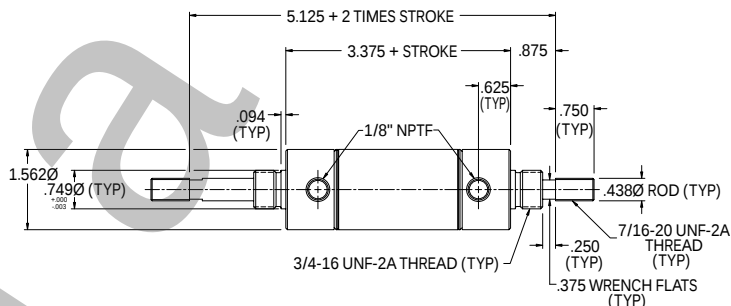
1/2", **1"**, 1-1/2", **2"**, 2-1/2", **3"**, **4"**, 5", 6"

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:

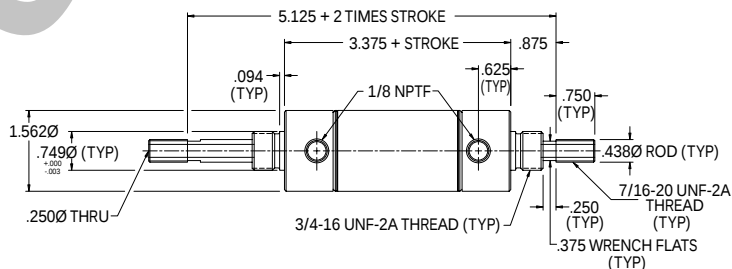
1/2", 1", 1-1/2", 2", 2-1/2", **3"**, 4", 5", 6"

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:

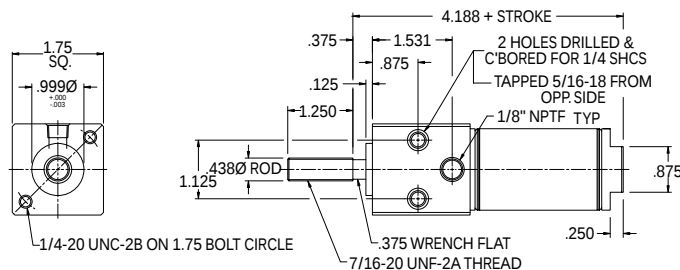
1/2", **1"**, **1-1/2"**, **2"**, 2-1/2", **3"**, **4"**, **5"**, **6"**

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:

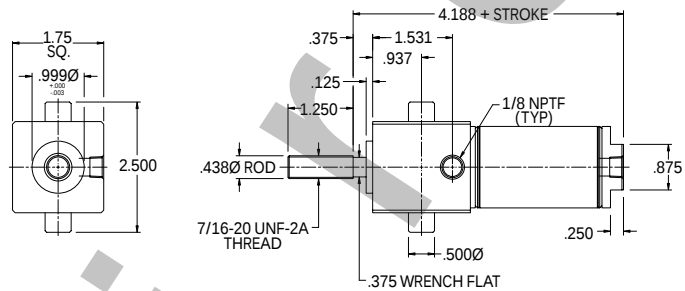
1/2", **1"**, 1-1/2", **2"**, 2-1/2", **3"**, 4", 5", 6"

Maximum Stroke: 12"

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

*Optional Accessories:

- M029006 Pivot Bracket
- M127005 Rod Clevis



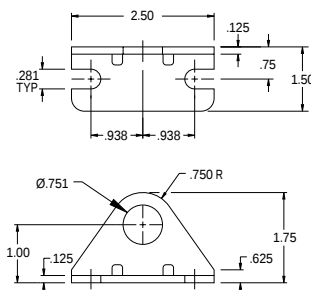
1-1/2" Bore Cylinder Specifications

- (1.7) X (Air Line Pressure) = Approximate Force Exerted
- Enclosed spring force: 7 lbs. retracted, 14 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- Viton® seals are optional on all cylinders for 200° - 350°F applications.
- Bumpers are optional on all 1-1/2" bore cylinders (except in combination with Viton® option).
- Magnetic piston optional on all double acting 1-1/2" bore cylinders (except in combination with Viton® option).
- Bumper and magnet option on 1-1/2" bore double acting cylinder adds .250" to overall length.

1-1/2" Bore Accessories

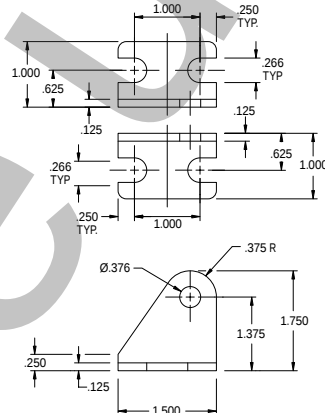
Nose Mounting Brackets

M117007



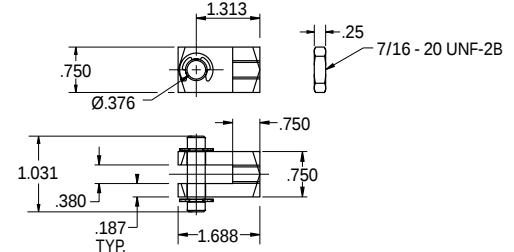
Pivot Mount Bracket

M029004



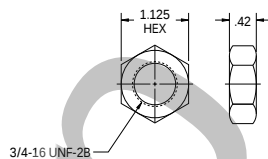
Rod Clevis

M127005

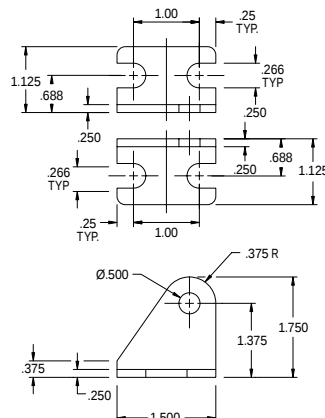


Mounting Nuts

M190006



M029006





1-3/4" Bore Cylinder

Single Acting Spring Return – **1750S01-00A**
Front Nose Mount

Standard Stroke Lengths:

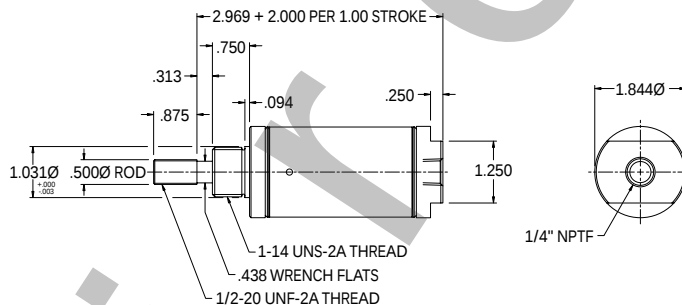
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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:

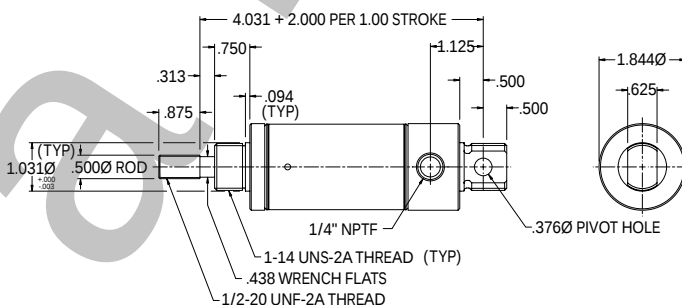
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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:

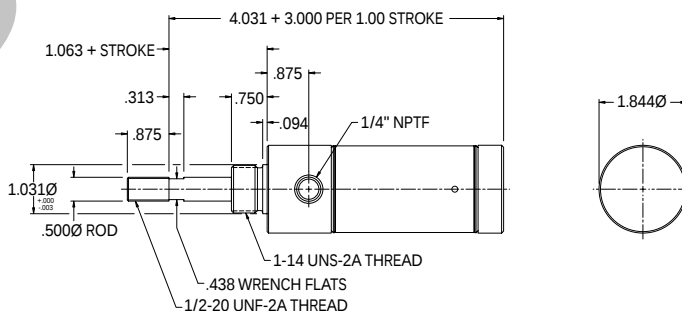
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M117008 Mounting Bracket
- M127006 Rod Clevis





1-3/4" Bore Cylinder

Double Acting – **1750D01-00A**

Front Nose Mount

Standard Stroke Lengths:

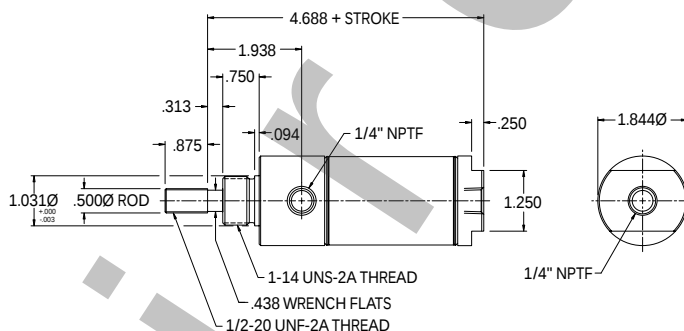
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

Maximum Stroke: 12"

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

*Optional Accessories:

- M117008 Mounting Bracket
- M127006 Rod Clevis



Double Acting – **1750D02-00A**

Double Nose or Rear Pivot Mount

Standard Stroke Lengths:

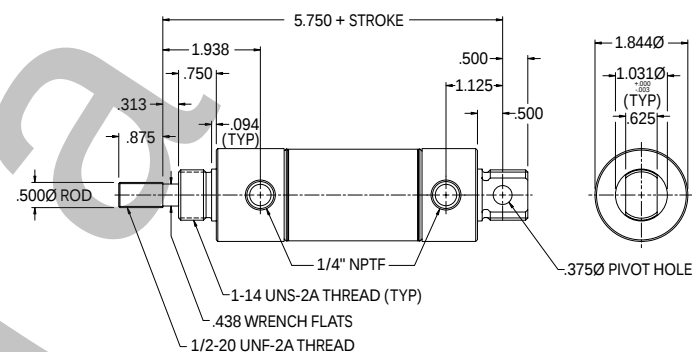
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

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



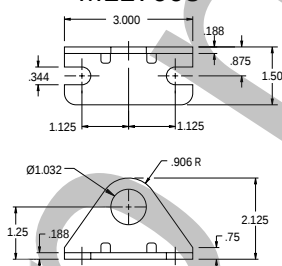
1-3/4" Bore Cylinder Specifications

- (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.
- Viton® seals are optional on all cylinders for 200° - 350°F applications.
- Bumpers are optional on all 1-3/4" bore cylinders (except in combination with Viton® option).
- Magnetic piston optional on all double acting 1-3/4" bore cylinders (except in combination with Viton® option).

1-3/4" Bore Accessories

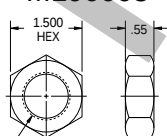
Nose Mounting Brackets

M117008



Mounting Nuts

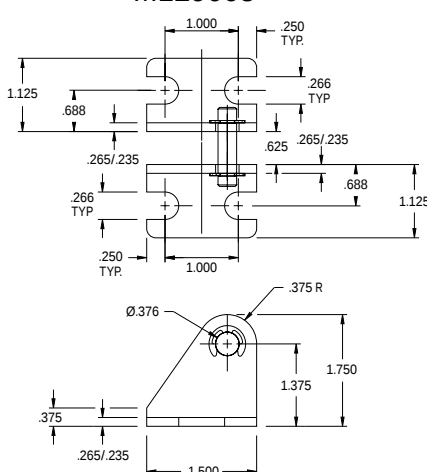
M190008



1-14 UNF-2B

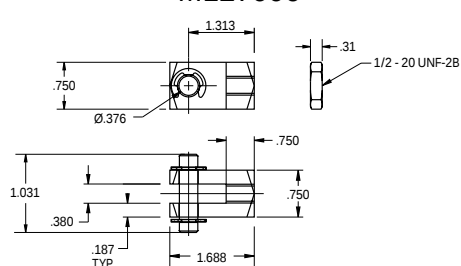
Pivot Mount Bracket

M129005



Rod Clevis

M127006



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

Standard Stroke Lengths:

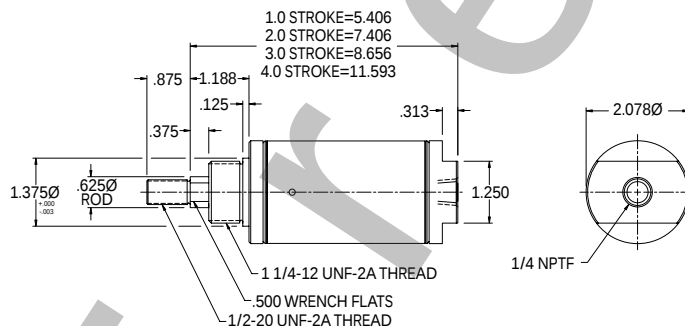
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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:

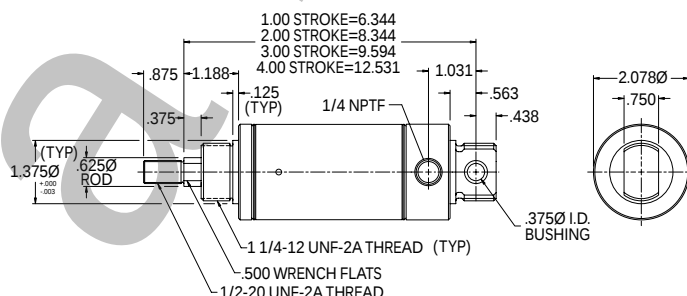
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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"

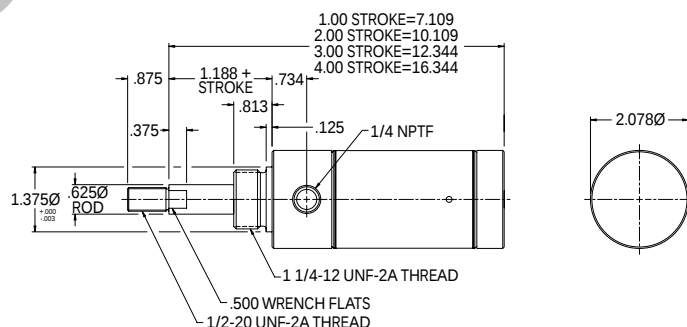
Maximum Stroke: 4"

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"

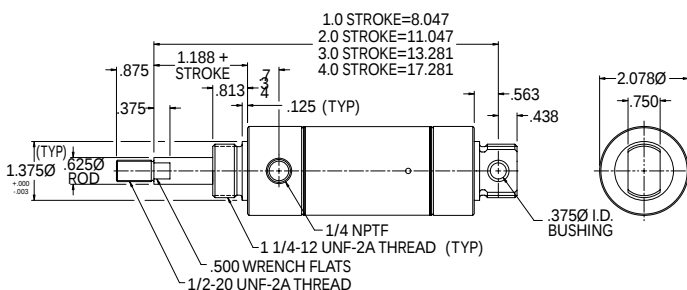
Maximum Stroke: 4"

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.





M Series Round Line



2" Bore Cylinder

Double Acting – **2000D01-00A**

Front Nose Mount

Standard Stroke Lengths:

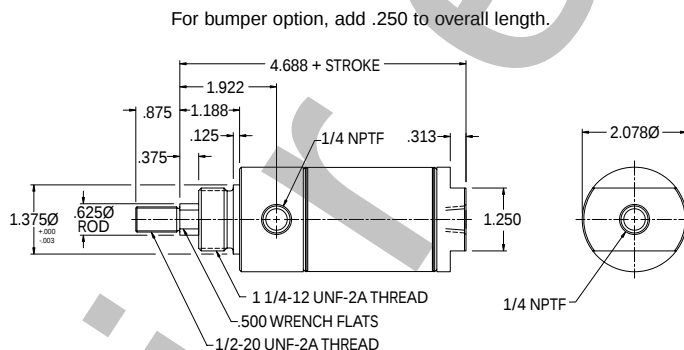
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", 7", 8"

Maximum Stroke: 12"

Base Weight: 1.40 lbs., plus .15 lbs. per inch of stroke

*Optional Accessories:

- M117009 Mounting Bracket
- M127006 Rod Clevis



Double Acting – **2000D02-00A**

Double Nose or Rear Pivot Mount

Standard Stroke Lengths:

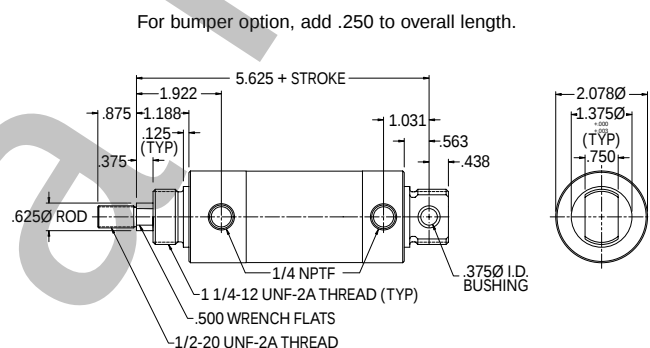
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

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



Double Acting – **2000D03-00A**

Through Rod

Standard Stroke Lengths:

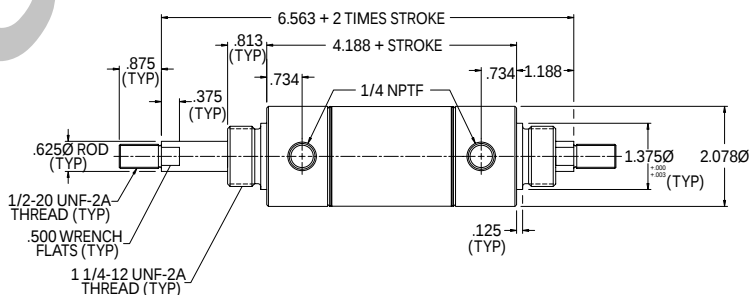
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

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

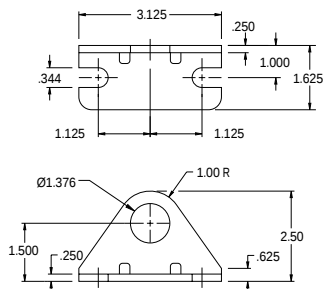
- (3.1) X (Air Line Pressure) = Approximate Force Exerted
- Enclosed spring force: 15 lbs. retracted, 30 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- Viton® seals are optional on all cylinders for 200° - 350°F applications.
- Bumpers are optional on all 2" bore cylinders (except in combination with Viton® option).
- Magnetic piston optional on all double acting 2" bore cylinders (except in combination with Viton® 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

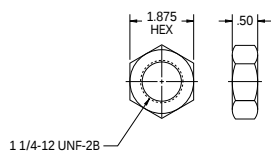
Nose Mounting Brackets

M117009



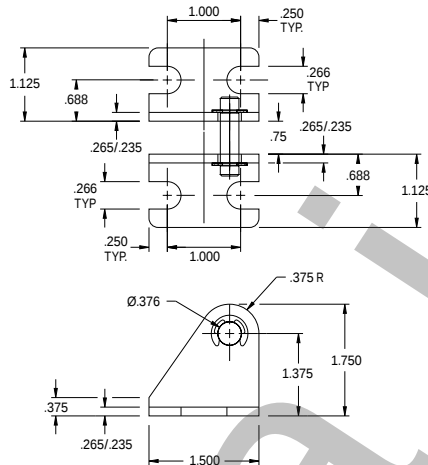
Mounting Nuts

M190009



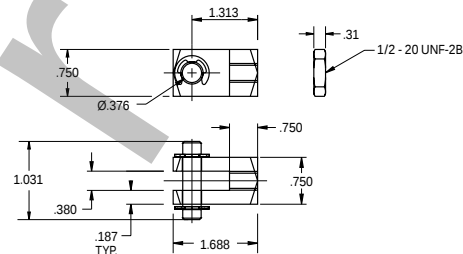
Pivot Mount Bracket

M229005



Rod Clevis

M127006





2-1/2" Bore Cylinder

Double Acting – **2500D01-00A**

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"

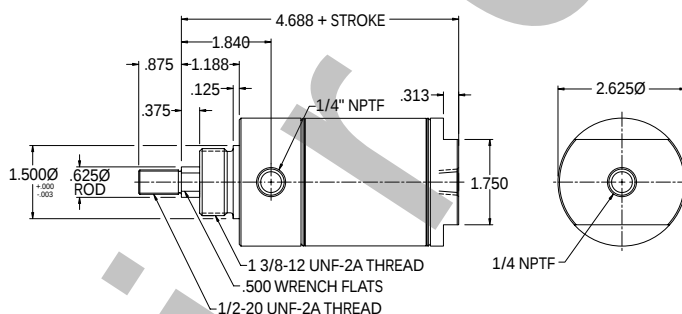
Maximum Stroke: 12"

Base Weight: 1.98 lbs., plus .17 lbs. per inch of stroke

*Optional Accessories:

- M127006 Rod Clevis

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



Double Acting – **2500D02-00A**

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"

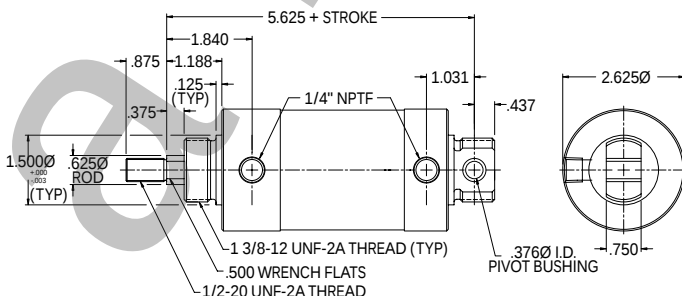
Maximum Stroke: 32"

Base Weight: 2.27 lbs., plus .17 lbs. per inch of stroke

*Optional Accessories:

- M229005 Pivot Bracket
- M127006 Rod Clevis

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



2-1/2" Bore Cylinder Specifications

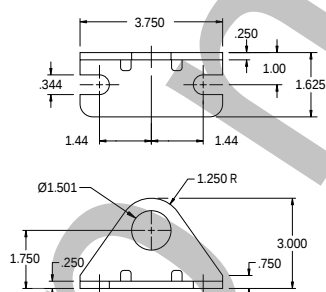
- (5.0) X (Air Line Pressure) = Approximate Force Exerted
- Type 303 stainless steel rod as standard.
- Viton® seals are optional on all cylinders for 200° - 350°F applications.
- Magnetic piston optional on all 2-1/2" bore cylinders.
- Bumper option on all 2-1/2" bore cylinders adds .063" to overall length.

NOTE: Consult factory for 2-1/2" bore D03 mount information.

2-1/2" Bore Accessories

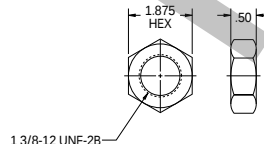
Nose Mounting Brackets

M117010



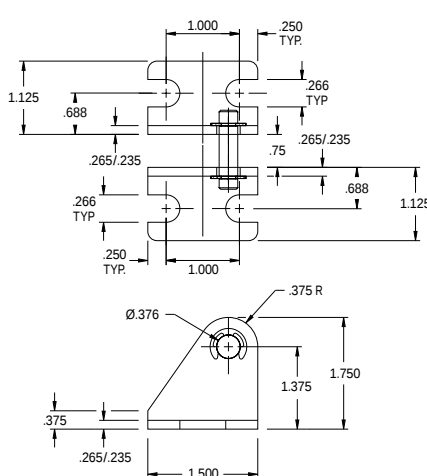
Mounting Nuts

M190012



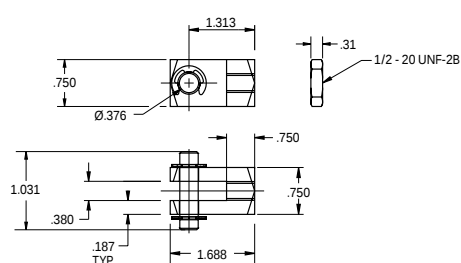
Pivot Mount Bracket

M229005



Rod Clevis

M127006





M Series Round Line



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"**

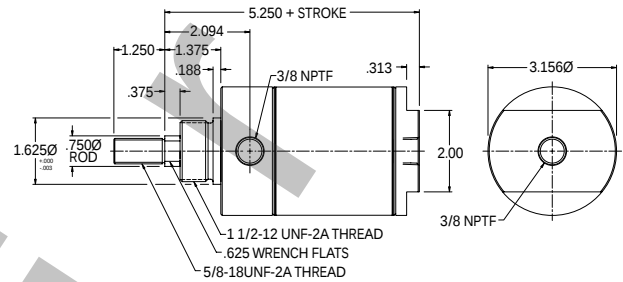
Maximum Stroke: 12"

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

*Optional Accessories:

- M117009 Mounting Bracket
- M127006 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"**

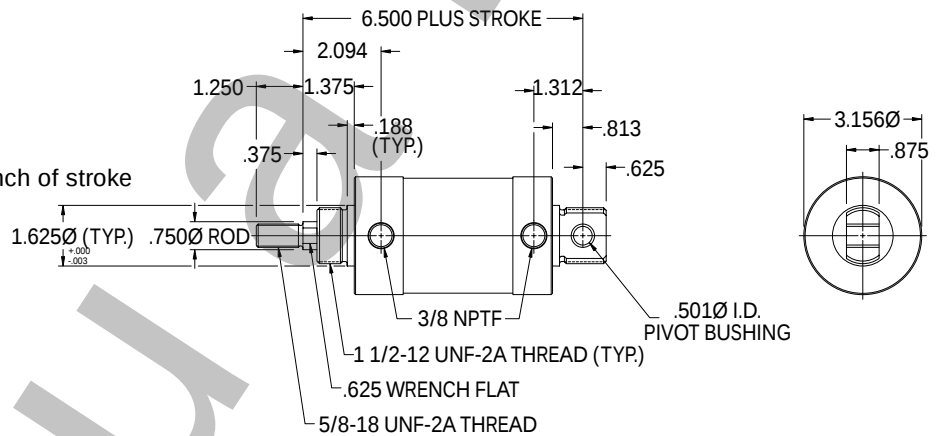
Maximum Stroke: 32"

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

*Optional Accessories:

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

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



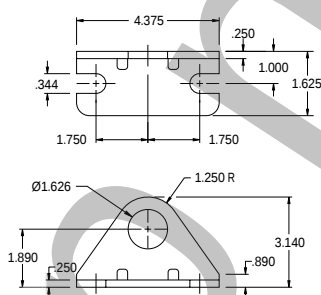
3" Bore Cylinder Specifications

- (7.0) X (Air Line Pressure) = Approximate Force Exerted
- Type 303 stainless steel rod as standard.
- Viton® seals are optional on all cylinders for 200° - 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

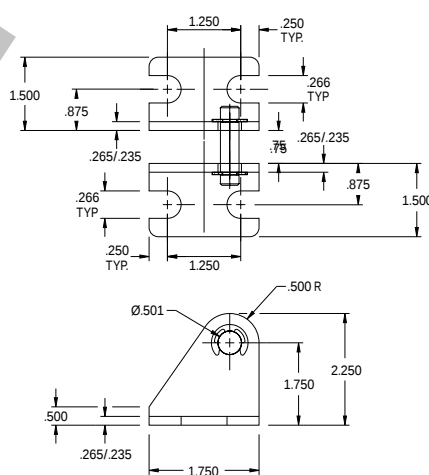
Nose Mounting Brackets

M117011



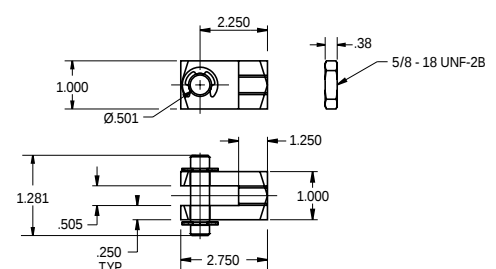
Pivot Mount Bracket

M229006



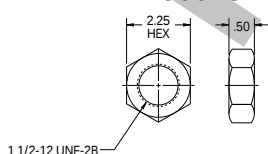
Rod Clevis

M127007



Mounting Nuts

M190013





M Series Adjustable Cushion Line

Adjustable Cushion Cylinders

3/4" Bore Double Acting – 0750DG1-00A

Front Nose Mount with Cushions

Standard Stroke Lengths:

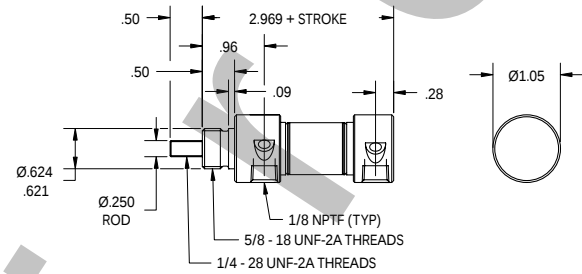
1/2", 1", 1-1/2", **2"**, 2-1/2", 3", 4", **5"**, 6"

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:

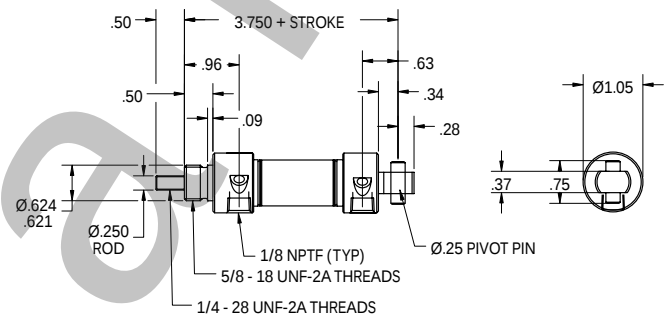
1/2", **1"**, 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

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:

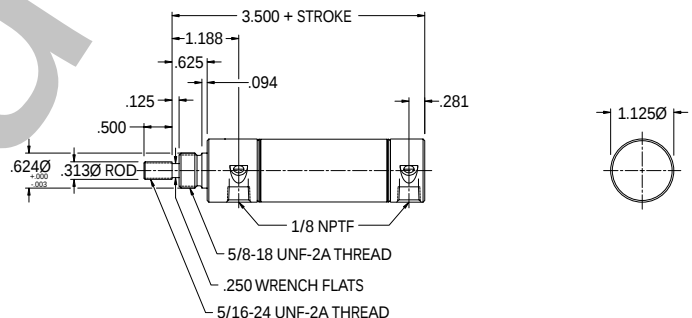
1/2", 1", 1-1/2", 2", 2-1/2", **3"**, 4", 5", 6"

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:

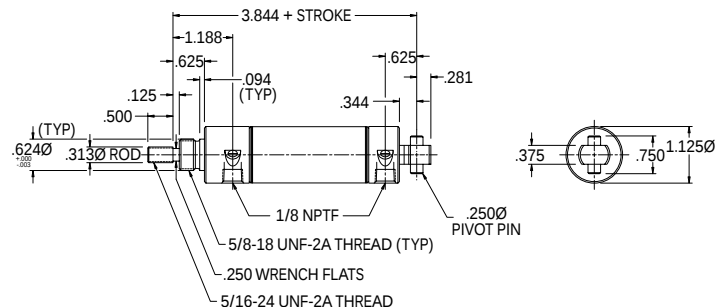
1/2", 1", 1-1/2", 2", 2-1/2", **3" with magnet**, 4", 5", 6", 7", 8", 9", **10"**, 11", 12"

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 56-59 for accessory details.

**M Series**
Adjustable Cushion Line**Adjustable Cushion Cylinders****1-1/2" Bore Double Acting – 1500DG1-00A**

Front Nose Mount with Cushions

Available Stroke Lengths:

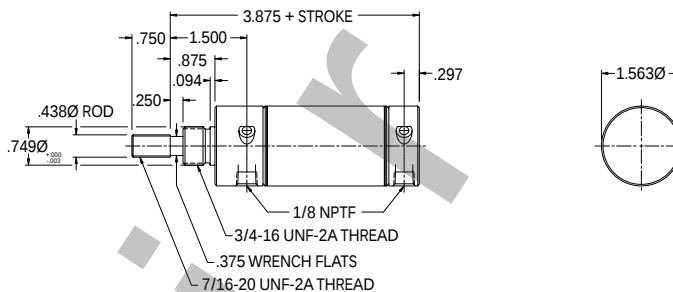
**1/2", 1", 1-1/2", 2", 2-1/2", *3", *4", *5", *6",
*7", *8", *9", *10", *11", *12"*****with magnet**

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:

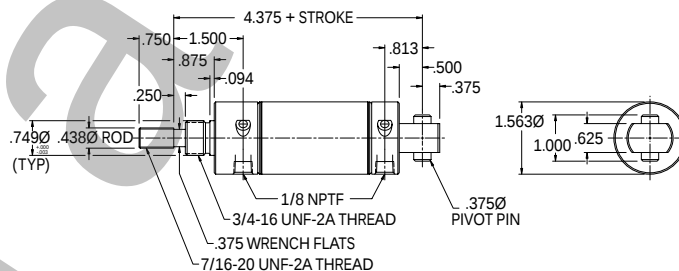
**1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", 7",
8", 9", 10", 11", 12"**

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:

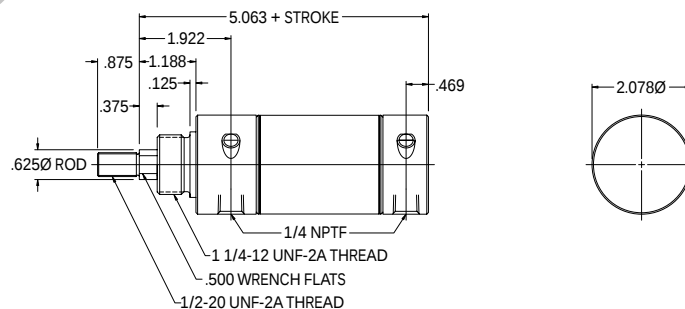
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

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:

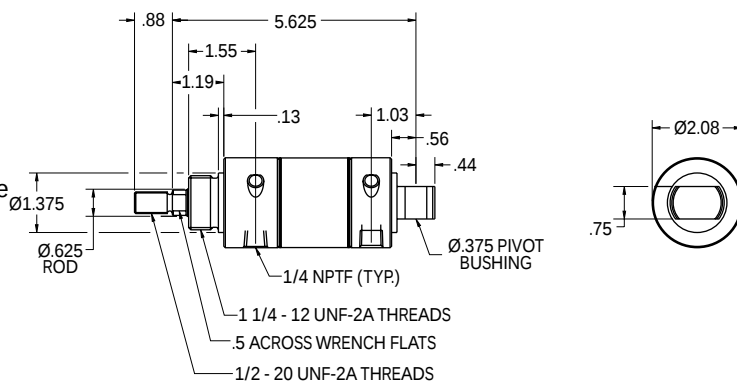
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

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



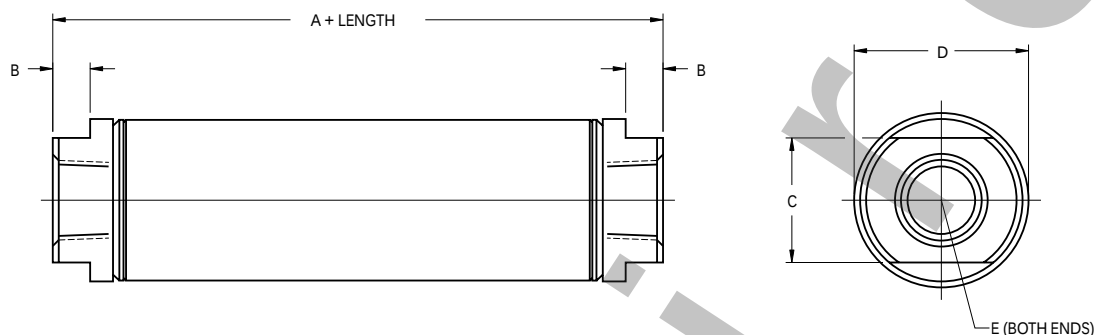
* See page 56-59 for accessory details.



M Series Volume Chambers



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

0750 = 3/4"
1062 = 1-1/16"
1500 = 1-1/2"
2000 = 2"
2500 = 2-1/2"
3000 = 3"

Style

V = Volume Chamber

Version

01 = Inline Mount

Fractional Inches of Length

A = 0" Stroke

Full Inches of Length

00 = 0"
01 = 1"
02 = 2"
03 = 3"
through
32 = 32"

Volume Chamber Specifications

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



M Series Custom Cylinders



1" Rod, 2" Bore Cylinders

2" Bore Double Acting – **2000DL1-00A**

Front Nose Mount

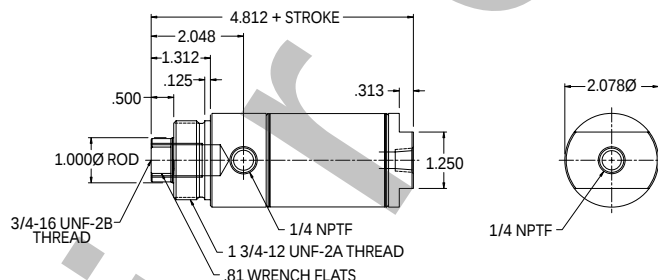
1" Diameter Rod with Wear Band Piston

Standard Stroke Lengths:

1/2", 1", 1-1/2" 2", 2-1/2", and
1" increments from 3' to 6"

Maximum Stroke: 12"

Base Weight: 1.79 lbs., plus .28 lbs. per inch of stroke



2" Bore Double Acting – **2000DL2-00A**

Rear Pivot Mount

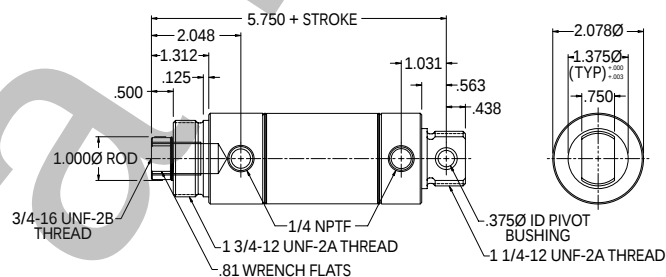
1" Diameter Rod with Wear Band Piston

Standard Stroke Lengths:

1/2", 1", 1-1/2" 2", 2-1/2", and
1" increments from 3' to 24"

Maximum Stroke: 32"

Base Weight: 2.01 lbs., plus .28 lbs. per inch of stroke



1" Rod, 2" Bore Cylinder Specifications

- 1" chrome rod is standard.
- Magnetic piston optional.
- Viton® seals optional for 200°-300°F applications.
- Mounting nuts are sold separately.

* See page 56-59 for accessory details.

Special Applications



Numatics Actuator Group can custom design and manufacture special cylinders to meet your exacting requirements, even if the cylinder you require is not in our catalogs.

Special cylinders may have a wide variety of non-cataloged options or configurations such as custom rod ends, non-standard mountings, or special seals and bearings for a variety of environments and chemical exposures.

The Numatics Actuator Group design staff is ready to help develop custom cylinders to solve your most challenging needs.



M Series Delrin® Series



Delrin® Corrosion Resistant Cylinders

Features

- Delrin® head, cap and piston provide excellent corrosion resistance in wash down environments where cylinders are exposed to moisture and certain solvents.*
- Stainless steel rod and tube complete the corrosion resistance package and provide long life.
- Corrosion resistant cylinders are offered in three standard bore sizes: 3/4", 1-1/16" and 1-1/2" with both nose and rear pivot mounts.
- 100 PSI Pressure Rating
- 32° F to 160° F Temperature Rating

Delrin® is a registered trademark of DuPont.

*Call DuPont for general information (800) 441-0575 for information regarding properties of Delrin®.



3/4" Delrin® M Series Cylinders

Double Acting – 0750DC1-00A

Front Nose Mount

Standard Stroke Lengths:

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

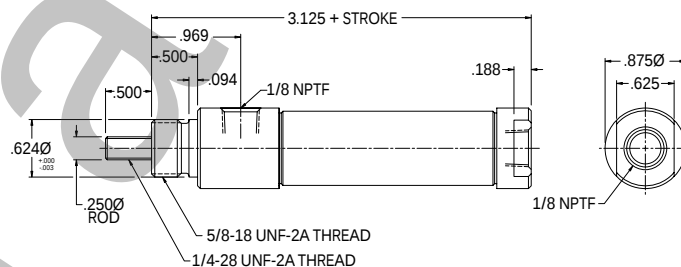
Maximum Stroke: 12"

Base Weight: .13 lbs., plus .03 lbs. per inch of stroke

Mounting Nut, Maximum Torque: 12.0 (in.-lbs.)

*Optional Accessories:

- M19S005 Stainless Steel Mounting Nut



Double Acting – 0750DC2-00A

Rear Pivot Mount

Standard Stroke Lengths:

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

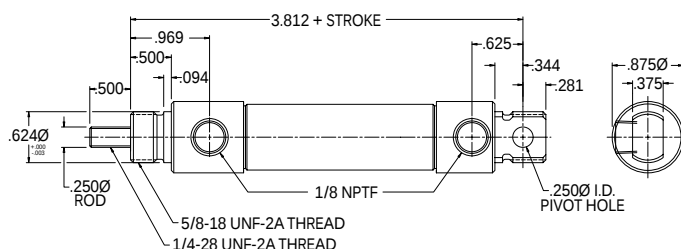
Maximum Stroke: 32"

Base Weight: .15 lbs., plus .03 lbs. per inch of stroke

Mounting Nut, Maximum Torque: 12.0 (in.-lbs.)

*Optional Accessories:

- M19S005 Stainless Steel Mounting Nut



Double Acting – 0750DC3-00A

Through Rod Mount

Standard Stroke Lengths:

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

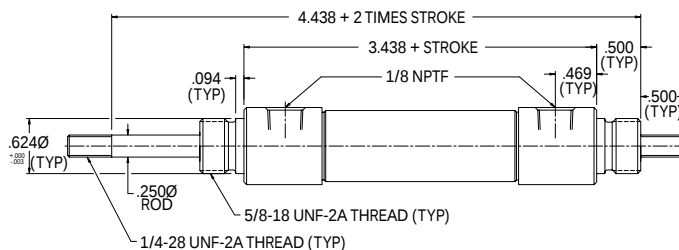
Maximum Stroke: 12"

Base Weight: .18 lbs., plus .05 lbs. per inch of stroke

Mounting Nut, Maximum Torque: 12.0 (in.-lbs.)

*Optional Accessories:

- M19S005 Stainless Steel Mounting Nut



* See page 56-59 for accessory details.

M Series
Delrin® Series**1-1/16" Delrin® M Series Cylinders**Double Acting – **1062DC1-00A**

Front Nose Mount

Standard Stroke Lengths:

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

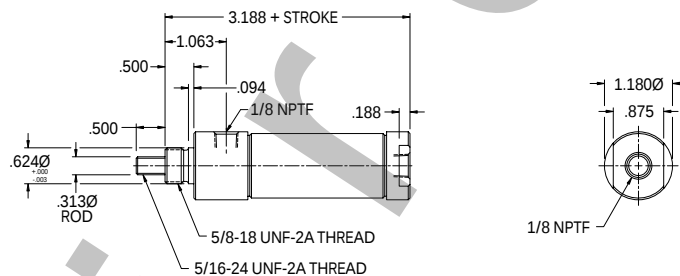
Maximum Stroke: 12"

Base Weight: .21 lbs., plus .05 lbs. per inch of stroke

Mounting Nut, Maximum Torque: 12.0 (in-lbs.)

*Optional Accessories:

- M19S005 Stainless Steel Mounting Nut

Double Acting – **1062DC2-00A**

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"

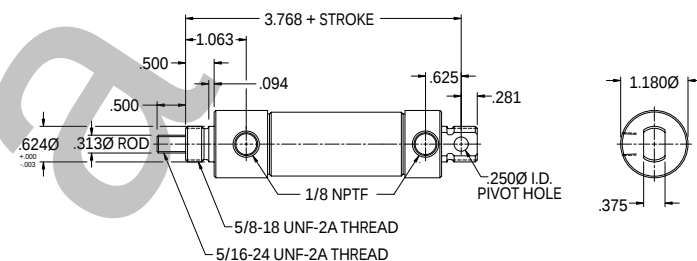
Maximum Stroke: 32"

Base Weight: .25 lbs., plus .05 lbs. per inch of stroke

Mounting Nut, Maximum Torque: 12.0 (in-lbs.)

*Optional Accessories:

- M19S005 Stainless Steel Mounting Nut

Double Acting – **1062DC3-00A**

Through Rod Mount

Standard Stroke Lengths:

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

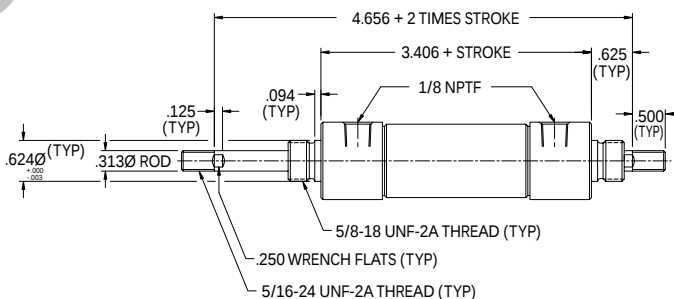
Maximum Stroke: 12"

Base Weight: .30 lbs., plus .07 lbs. per inch of stroke

Mounting Nut, Maximum Torque: 12.0 (in-lbs.)

*Optional Accessories:

- M19S005 Stainless Steel Mounting Nut



* See page 56-59 for accessory details.



1-1/2" Delrin® M Series Cylinders

Double Acting – **1500DC1-00A**

Front Nose Mount

Standard Stroke Lengths:

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

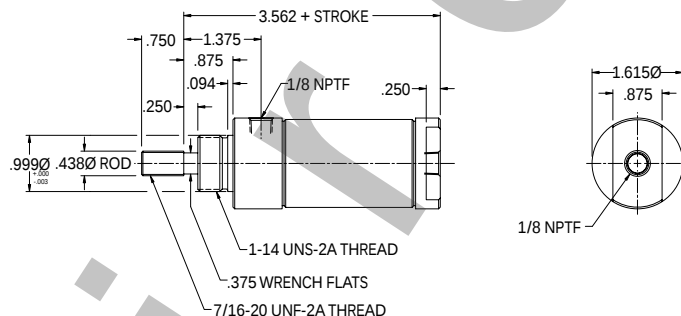
Maximum Stroke: 12"

Base Weight: .46 lbs., plus .08 lbs. per inch of stroke

Mounting Nut, Maximum Torque: 30.0 (in-lbs)

*Optional Accessories:

- M19S006 Stainless Steel Mounting Nut



Double Acting – **1500DC2-00A**

Rear Pivot Mount

Standard Stroke Lengths:

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

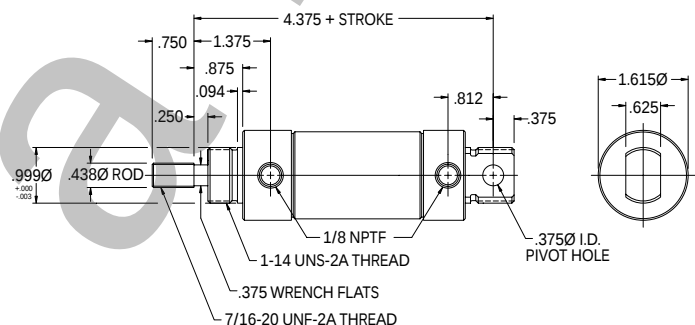
Maximum Stroke: 32"

Base Weight: .48 lbs., plus .08 lbs. per inch of stroke

Mounting Nut, Maximum Torque: 30.0 (in-lbs)

*Optional Accessories:

- M19S006 Stainless Steel Mounting Nut



Double Acting – **1500DC3-00A**

Through Rod Mount

Standard Stroke Lengths:

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

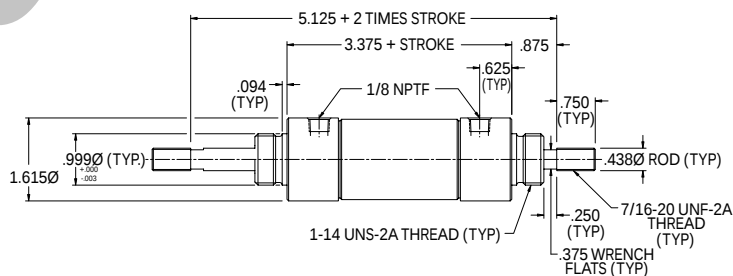
Maximum Stroke: 12"

Base Weight: .60 lbs., plus .13 lbs. per inch of stroke

Mounting Nut, Maximum Torque: 30.0 (in-lbs)

*Optional Accessories:

- M19S006 Stainless Steel Mounting Nut



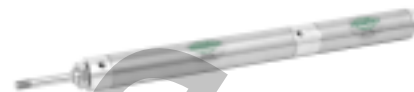
Standard Specifications

- Mounting nut is sold separately on all Delrin M Series cylinders.
- Please refer to specific bore size in standard cylinder section for standard specifications.

* See page 56-59 for accessory details.



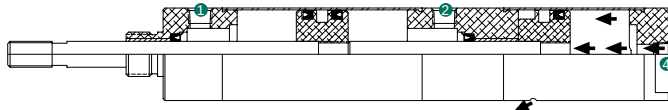
M Series Multi-Position Cylinder



Multi-Position Cylinders

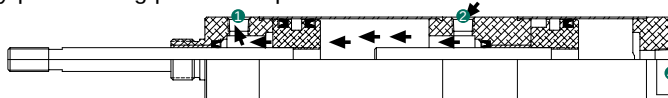
Step 1

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



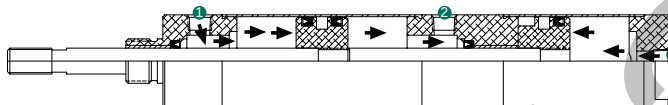
Step 2

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



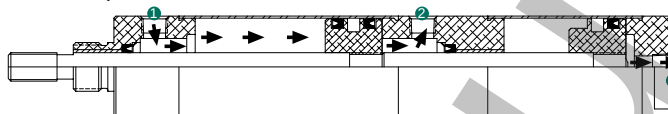
Step 3

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.



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.

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

Full Inches

00 = 0"
01 = 1"
02 = 2"

Fractional Inches

A = 0"
I = 1/2"

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".

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

M Series Multi-Position Cylinder

Multi-Position Cylinders

3/4" Bore Standard – **0750D1-00A-00A-00**

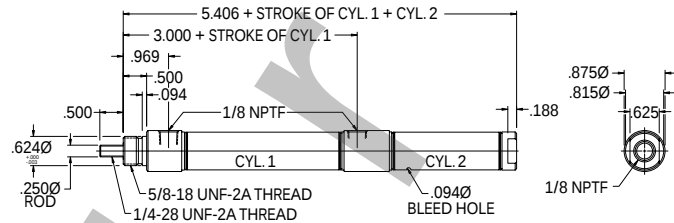
3/4" Bore Magnetic Band (both ends) – **0750D1-00A-00A-12**

Front Nose Mount

Maximum Stroke: 24"

*Optional Accessories:

- M117005 Mounting Bracket



1-1/16" Bore Standard – **1062D1-00A-00A-00**

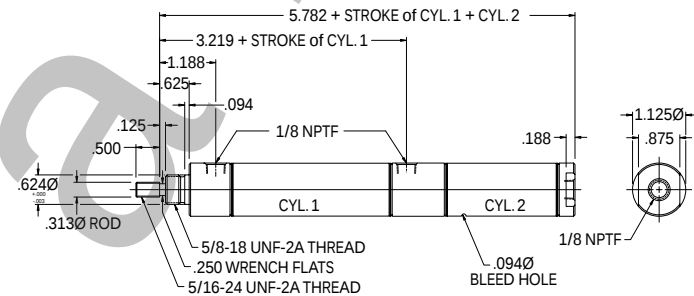
1-1/16" Bore Magnetic Band (both ends) – **1062D1-00A-00A-12**

Front Nose Mount

Maximum Stroke: 24"

*Optional Accessories:

- M117005 Mounting Bracket



1-1/2" Bore Standard – **1500D1-00A-00A-00**

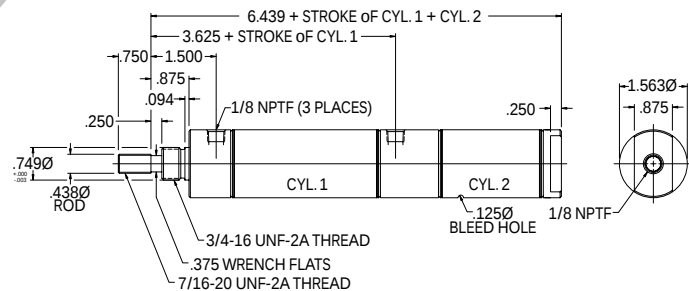
1-1/2" Bore Magnetic Band (both ends) – **1500D1-00A-00A-12**

Front Nose Mount

Maximum Stroke: 24"

*Optional Accessories:

- M117007 Mounting Bracket



2" Bore Standard – **2000D1-00A-00A-00**

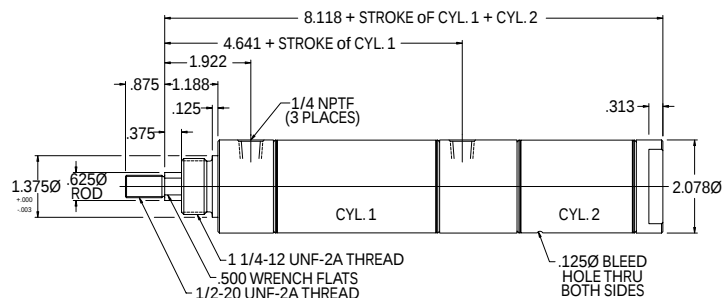
2" Bore Magnetic Band (both ends) – **2000D1-00A-00A-12**

Front Nose Mount

Maximum Stroke: 24"

*Optional Accessories:

- M117009 Mounting Bracket



* See page 56-59 for accessory details.



M Series
Single Acting with Magnet



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"

Fractional Inches

A = 0"
I = 1/2"

M Series Single Acting with Magnet

Single Acting with Magnet Cylinders

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

Front Nose Mount with Magnetic Band

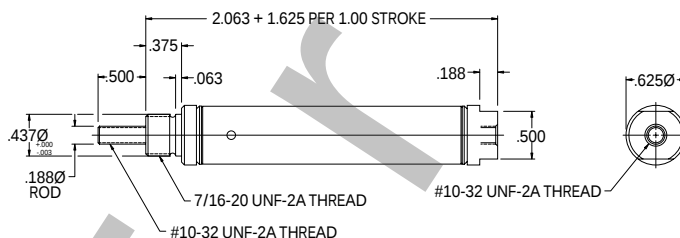
Standard Stroke Lengths:

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

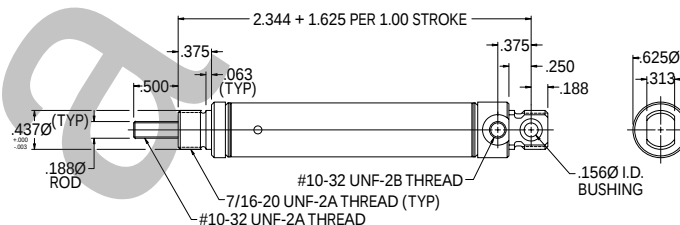
Standard Stroke Lengths:

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

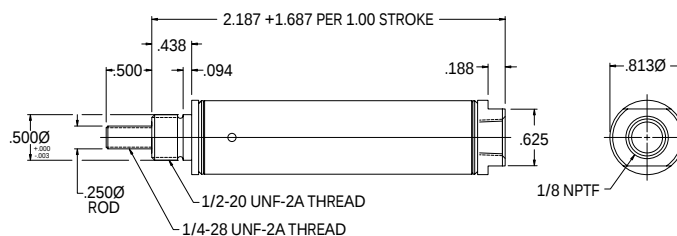
Standard Stroke Lengths:

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

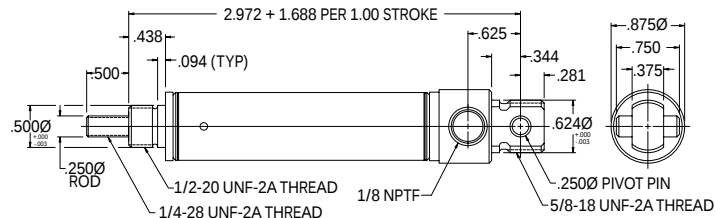
Standard Stroke Lengths:

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 56-59 for accessory details.



M Series Single Acting with Magnet



Single Acting with Magnet Cylinders

1-1/16" Bore Single Acting Spring Return – **1062S01-00A-03**

Front Nose Mount with Magnetic Band

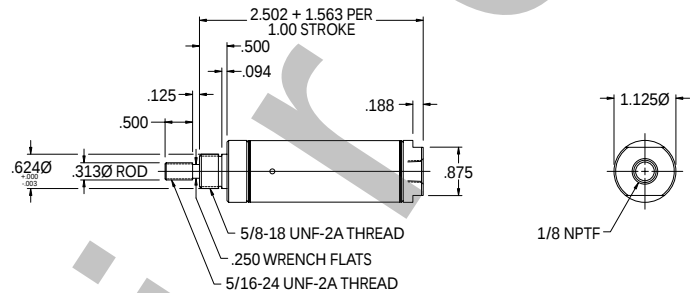
Standard Stroke Lengths:

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

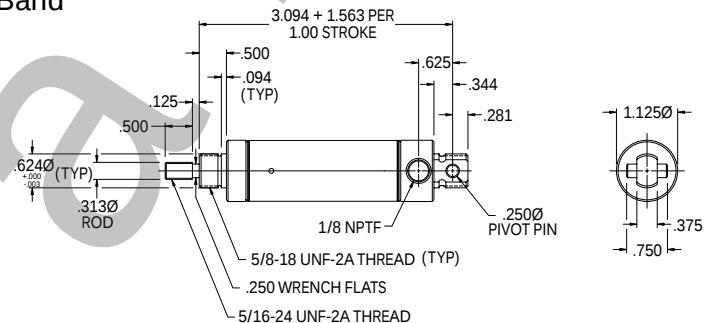
Standard Stroke Lengths:

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

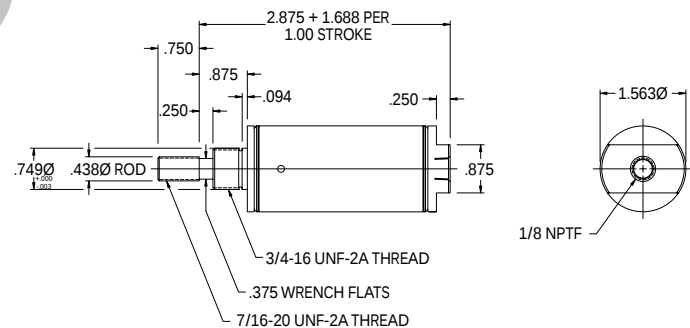
Standard Stroke Lengths:

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

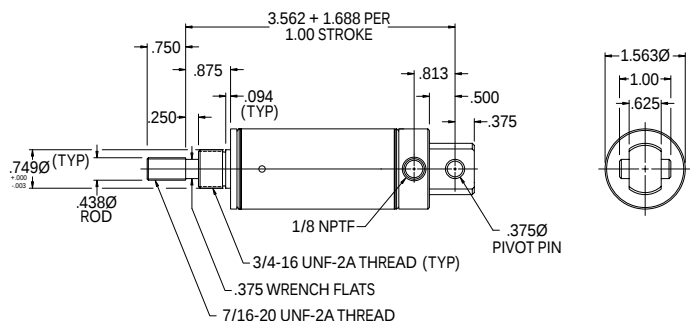
Standard Stroke Lengths:

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 56-59 for accessory details.

M Series Single Acting with Magnet

Single Acting with Magnet Cylinders

2" Bore Single Acting Spring Return – **2000S01-00A-03**

Front Nose Mount with Magnetic Band

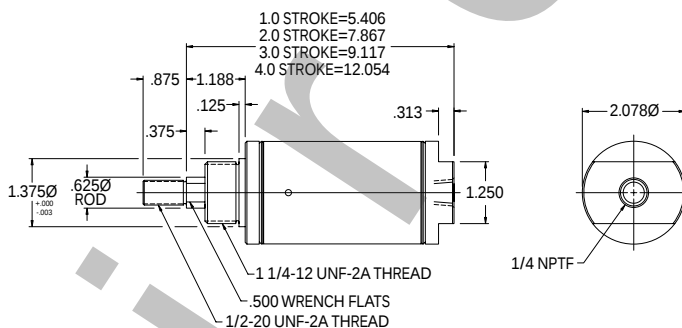
Standard Stroke Lengths:

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

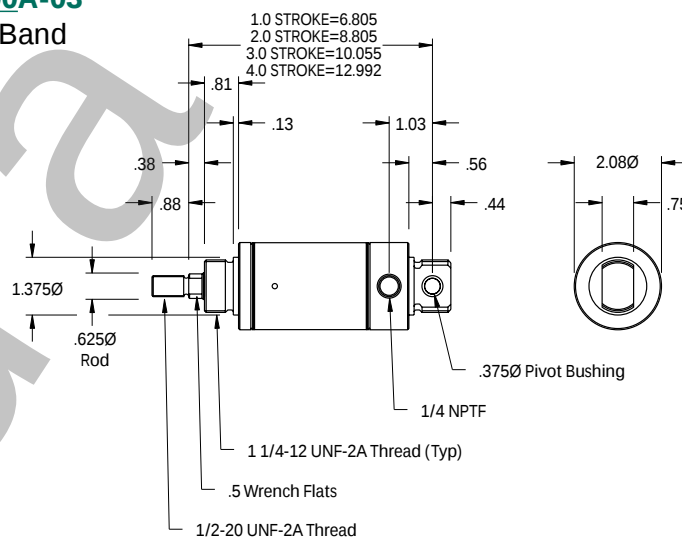
Standard Stroke Lengths:

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 56-59 for accessory details.



M Series Hole Punch Cylinders



Hole Punch Cylinders

Features

The durable design of our Hole Punch Cylinder enables you to punch millions of maintenance-free holes. The Numatics Actuator Group 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 = M12263-00I. 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 – **M12263-00I**

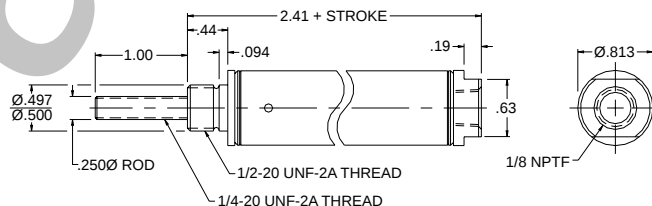
1/2" Stroke

- 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 – **M12264-00I**

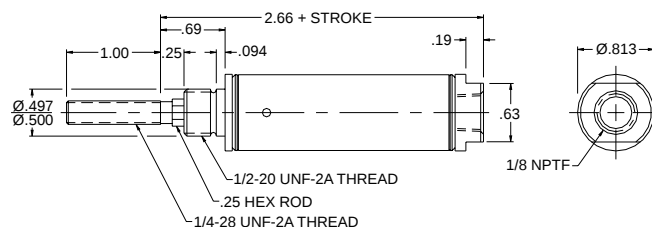
1/2" Stroke – Non-Rotating Rod

- 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 – **M12265-00I**

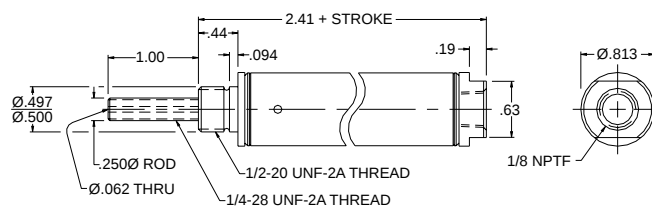
1/2" Stroke – Hollow Rod

- Bumpers
- 1/2" Thread Extension

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

1" Stroke – Hollow Rod

- Bumpers
- 1/2" Thread Extension





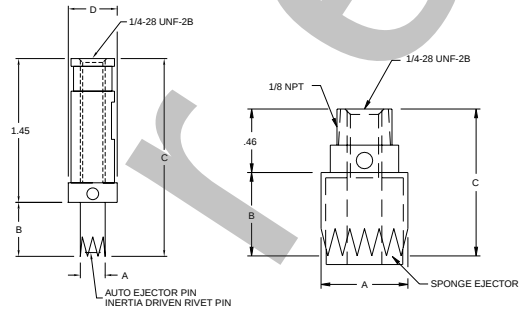
M Series Hole Punch Cylinders



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



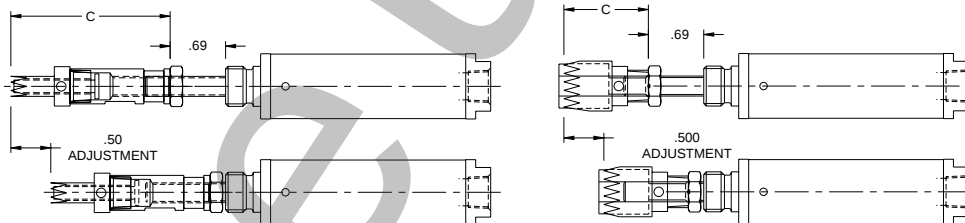
Hole Diameters 1/8"-1/4" Hole Diameters 3/8"-3/4"
Shown with AB-1A Adapter

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



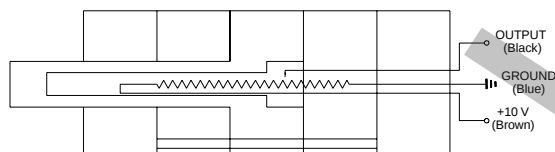
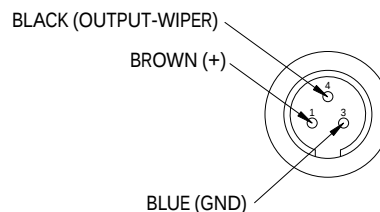
**M Series**
Accu M Series**ACCU M Series – Position Feedback Actuators****General Technical Data:**

The **Accu M Series** is an economical pneumatic linear actuator that contains an internal Linear Resistive Transducer (LRT). It is ideal for applications where traditional magnetic position sensing is not acceptable. Additionally, the **Accu M Series** is conducive where variations in cylinder stroke and speed are required or where an application calls for continuous position monitoring.

Electrical Specifications

Electrical Resistance	1000 ohms per inch of stroke $\pm 20\%$
Resolution	Infinite (limited by interfacing electronics)
Temperature Range	0° F to 160° F
Life Rating	500 million inches of travel on transducer
Linearity	$\pm 1\%$ of stroke (or better)
Interface	6" cable with M8x1 Quick Connect
Signal Input	Typically 10 VDC
Maximum Speed	50 in/sec
Maximum Standard Stroke	18 inches (longer strokes available upon request)
Maximum Current	1 microamp required from the transducer

Note: Control Module Units sold separately can have scalable output of 4-20 mA or 0-10 VDC and input of 120 VAC or 12-24 VDC. For more information regarding Control Module Units, reference the comprehensive Accu M Series Catalog (LTACCUMCAT-1). For additional technical data, please visit our website at www.numaticsactuator.com

MLRT Circuit Diagram**Connector Pin Assignments****How To Order****10 AM 1-06 A-01****Cylinder Bore**

- 10 = 1-1/16"
- 15 = 1-1/2"
- 20 = 2"
- 25 = 2-1/2"
- 30 = 3"

Cylinder Type

AM = ACCU M Series

Cylinder Mounting

- 1 = Front Nose
- 2 = Rear Pivot

Options

- 00 = No Options (or leave blank)
- 01 = Bumpers
Note: Bumpers add .250 to overall length.

Fractional Inches of Stroke

- A = 0"
- I = 1/2"

"Standard" Full Inches of Stroke

- 01 = 1" Stroke
- 02 = 2" Stroke
- 03 = 3" Stroke
- 04 = 4" Stroke
- 06 = 6" Stroke
- 08 = 8" Stroke
- 12 = 12" Stroke
- 18 = 18" Stroke (Maximum)

Note that the **ACCU M Series** can integrate with many Numatics Motion Control Group slide products. Contact Numatics Motion Control Group for details. (440) 934-3200 www.numation.com

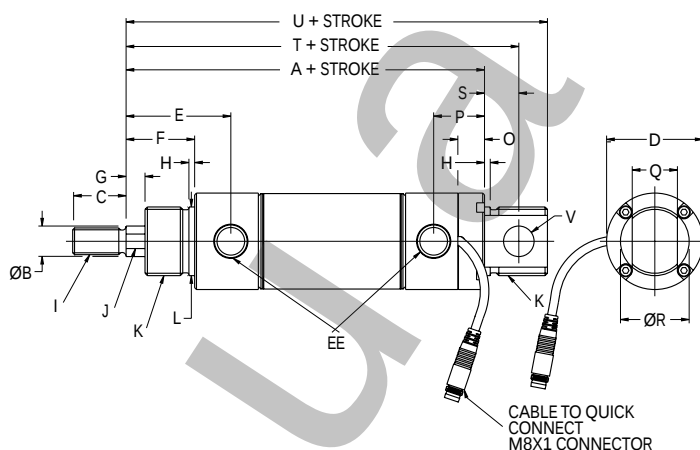
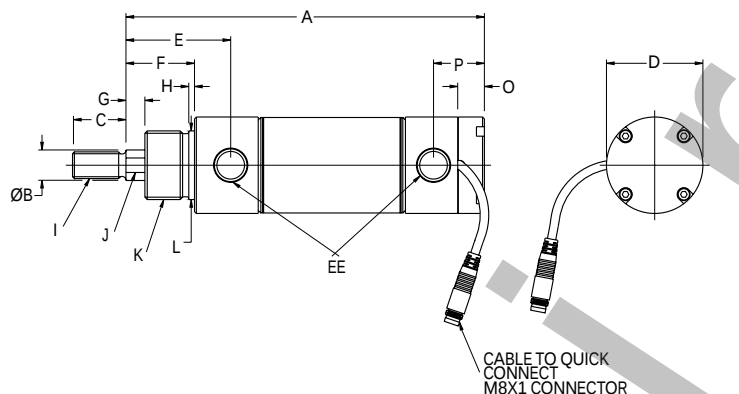
Note: Non-standard stroke lengths will increase lead time.



**M Series
Accu M Series**



Cylinder Dimensions



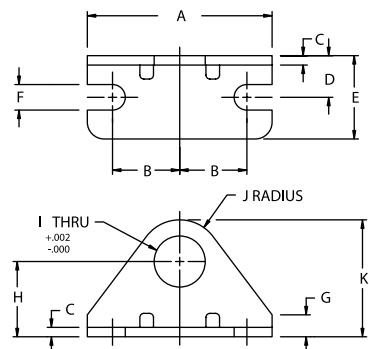
NOTE: See Switch Section for straight 2.5 m connecting cable.

	1-1/16" BORE	1.5" BORE	2" BORE	2.5" BORE	3" BORE
A	4.59	4.88	5.46	6.41	6.78
B	0.38	0.50	0.63	0.75	0.75
C	0.63	0.88	1.00	1.25	1.25
D	1.312	1.56	2.08	2.63	3.16
E	1.75	1.72	1.92	2.25	2.16
F	1.060	1.130	1.188	1.500	1.438
G	0.31	0.31	0.38	0.44	0.44
H	0.09	0.09	0.13	0.13	0.19
I	5/16-24 UNF	7/16-20 UNF	1/2-20 UNF	5/8-18 UNF	5/8-18 UNF
J	0.31	0.44	0.50	0.63	0.63
K	7/8-14 UNF	1 1/8-12 UNF	1 1/4-12 UNF	1 3/8-12 UNF	1 1/2-12 UNF
L	0.875	1.125	1.375	1.500	1.625
O	0.44	0.41	0.50	0.56	0.63
P	0.84	0.83	0.93	1.13	1.47
Q	0.38	0.63	0.75	0.875	0.88
R	0.875	1.125	1.375	1.50	1.625
S	0.47	0.56	0.56	0.75	0.81
T	5.06	5.44	6.02	7.16	7.59
U	5.34	5.91	6.46	7.78	8.22
V	0.25	0.38	0.38	0.50	0.50
EE	1/8 NPTF	1/4 NPTF	1/4 NPTF	3/8 NPTF	3/8 NPTF



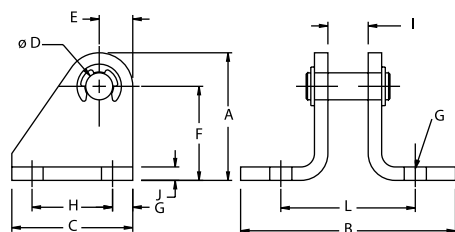
Accu M Series Accessories

Accu M Series Nose Mounting Brackets



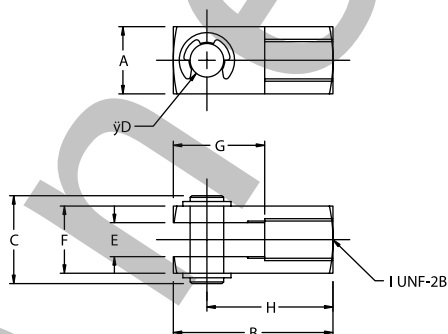
BORE	A	B	C	D	E	F	G	H	I	J	K	PART #
1-1/16	2.13	0.781	0.16	0.66	1.16	0.28	0.32	1.00	0.88	0.75	1.75	M117013
1-1/2	2.75	1.06	0.19	0.81	1.44	0.34	0.38	1.25	1.13	0.91	2.19	M117012
2	3.13	1.13	0.25	1.00	1.63	0.34	0.63	1.50	1.38	1.00	2.50	M117009
2-1/2	3.75	1.44	0.25	1.00	1.63	0.34	0.75	1.75	1.50	1.25	3.00	M117010
3	4.38	1.75	0.25	1.00	1.63	0.34	0.89	1.89	1.63	1.25	3.14	M117011

Accu M Series Pivot Mounting Brackets



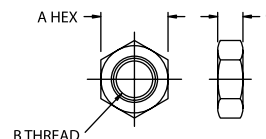
BORE	A	B	C	D	E	F	G	H	I	J	L	PART #
1-1/16	1.19	2.00	1.13	0.25	0.31	0.88	0.19	0.75	0.38	0.13	1.25	M129003
1-1/2	1.75	2.88	1.50	0.38	0.38	1.38	0.25	1.00	0.63	0.25	2.00	M129005
2	1.75	3.00	1.50	0.38	0.38	1.38	0.25	1.00	0.63	0.25	2.13	M229005
2-1/2	2.25	3.88	1.75	0.50	0.50	1.75	0.25	1.25	0.88	0.25	2.63	M229006
3	2.25	3.88	1.75	0.50	0.50	1.75	0.25	1.25	0.88	0.25	2.63	M229006

Accu M Series Rod Clevises



BORE	A	B	C	D	E	F	G	H	I	PART #
1-1/16	0.50	1.19	0.68	0.25	0.25	0.50	0.68	0.94	5/16-24	M127004
1-1/2	0.75	1.69	1.03	0.38	0.38	0.75	0.94	1.31	7/16-20	M127005
2	0.75	1.69	1.03	0.38	0.38	0.75	0.94	1.31	1/2-20	M127006
2-1/2	1.00	2.75	1.28	0.38	0.50	1.00	1.50	2.25	5/8-18	M127007
3	1.00	2.75	1.28	0.38	0.50	1.00	1.50	2.25	5/8-18	M127007

Accu M Series Mounting Nuts



PART #	A	B	C
M18-004	0.50	5/16-24	0.19
M190003	0.687	7/16-20	0.25
M190004	0.750	1/2-20	0.31
M190005	0.938	5/8-18	0.38
M190007	1.312	7/8-14	0.48
M190015	1.688	1 1/8-12	0.61
M190009	1.875	1 1/4-12	0.50
M190012	2.06	1 3/8-12	0.50
M190013	2.25	1 1/2-12	0.50



M Series Switches and Accessories



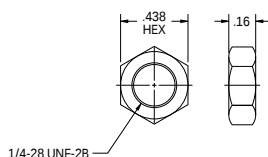
Mounting Nuts

Mounting Nuts Included on Cylinder

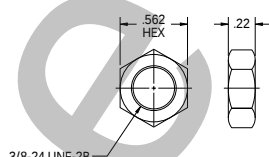
BORE	S01	S02	D01	D02	D03	D04	DG1	DG2	N01	N02	R01
0.313	Yes	No	Yes	No	Yes	Yes	N/A	N/A	N/A	N/A	Yes
0.438	Yes	No	Yes	No	Yes	Yes	N/A	N/A	Yes	No	Yes
0.563	Yes	No	Yes	No	Yes	Yes	N/A	N/A	Yes	No	Yes
0.750	Yes	No	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes
0.875	Yes	No	Yes	No	Yes	Yes	N/A	N/A	Yes	No	Yes
1.062	Yes	No	Yes	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

BORE	R02	D05	D06	D13	DH3	DL1	DL2	DC1	DC2	DC3
0.313	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0.438	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0.563	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3.000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

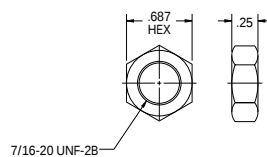
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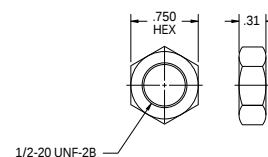
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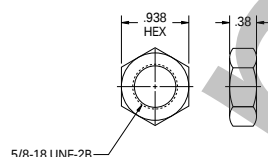
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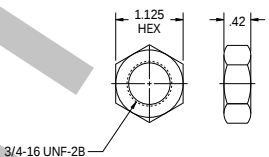
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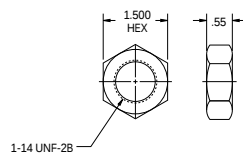
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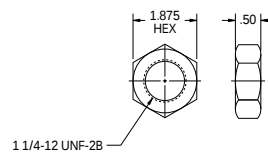
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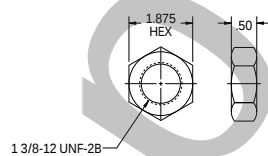
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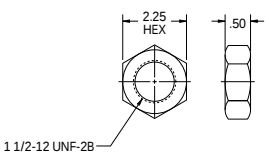
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M190012



M190013

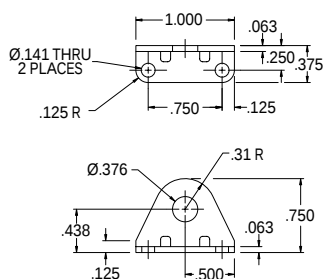




Nose Mounting Brackets

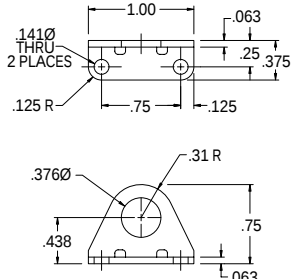
M117001

Single Acting 5/16" Bore



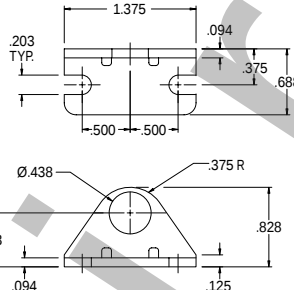
M117002

Double Acting 5/16" Bore



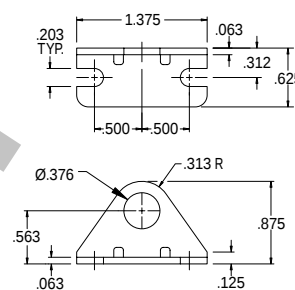
M117003

7/16" and 9/16" Bore



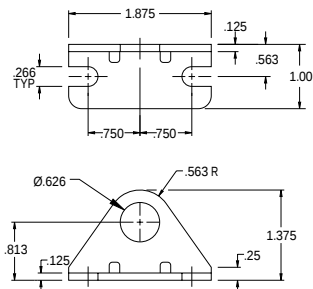
M117004

Single Acting 7/16" Bore



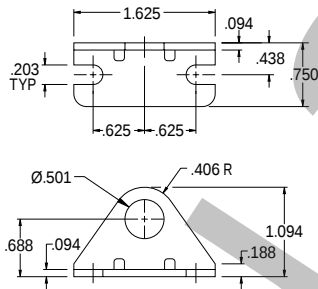
M117005

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



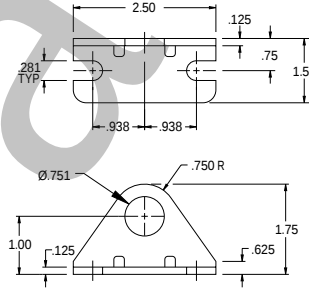
M117006

Single Acting 3/4" Bore



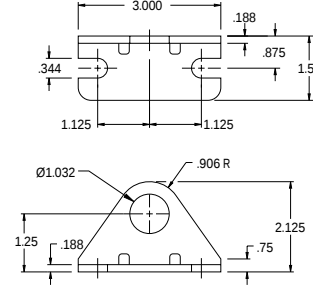
M117007

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



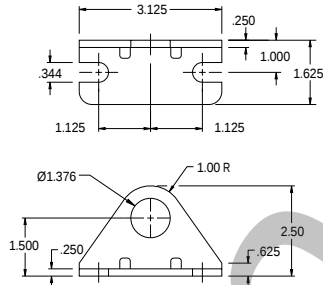
M117008

1-3/4" Bore



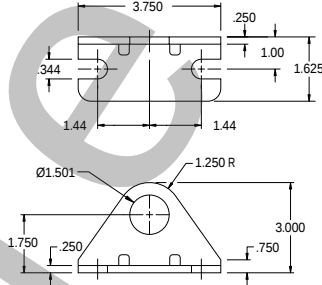
M117009

2" Bore



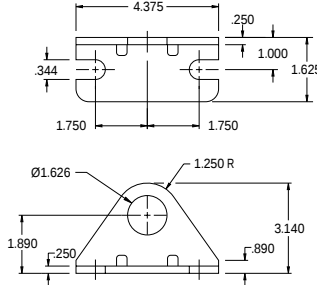
M117010

2-1/2" Bore



M117011

3" Bore



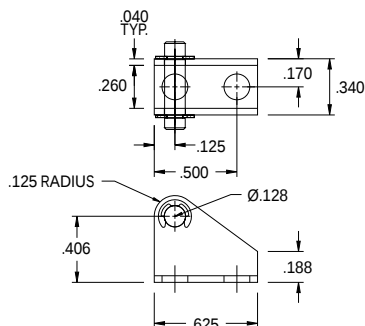


M Series Switches and Accessories

Pivot Mounting Brackets

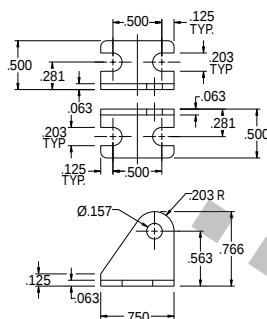
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5/16" Bore



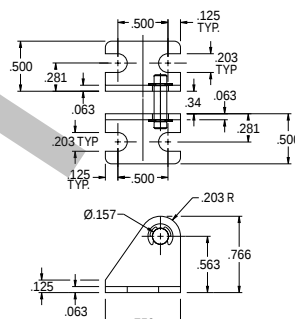
M029002

7/16" Bore



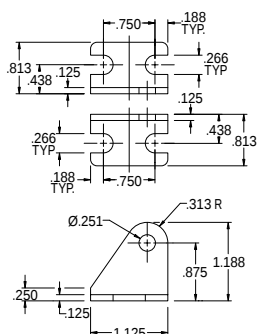
M129002

9/16" Bore



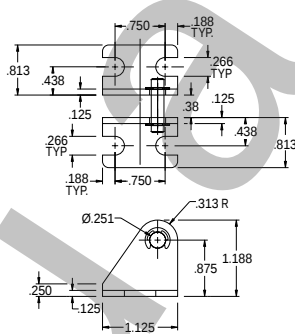
M029003

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



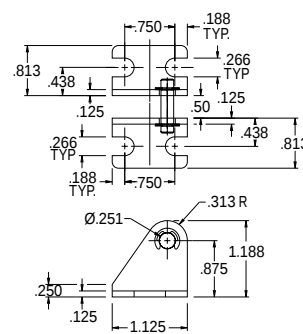
M129003

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



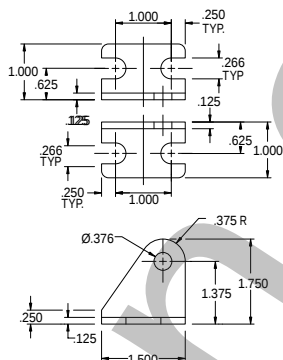
M229003

1-1/4" Bore



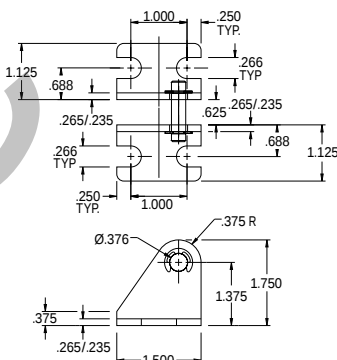
M029004

1-1/2" Bore



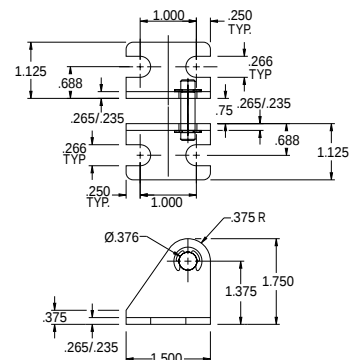
M129005

1-3/4" Bore



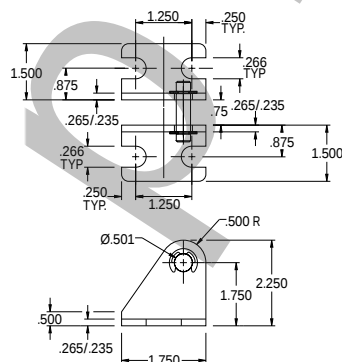
M229005

2 and 2-1/2" Bore



M229006

3" Bore

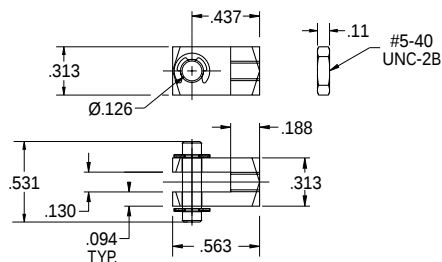




Rod Clevis

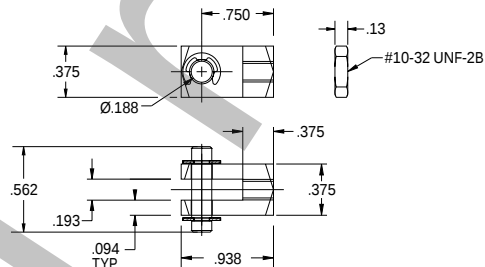
M127001

5/16" Bore



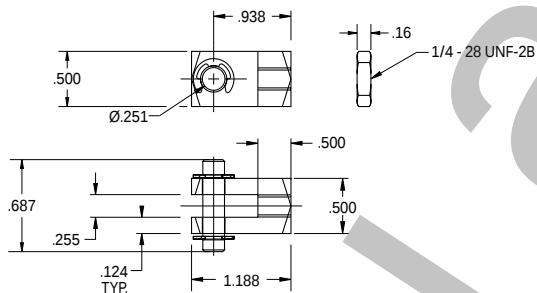
M127002

7/16" and 9/16" Bore



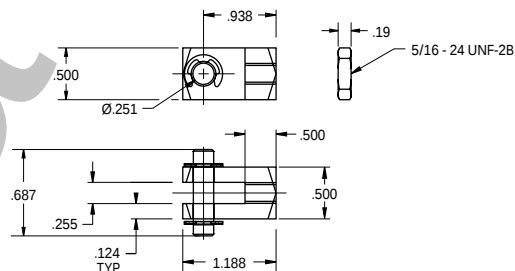
M127003

3/4" and 7/8" Bore



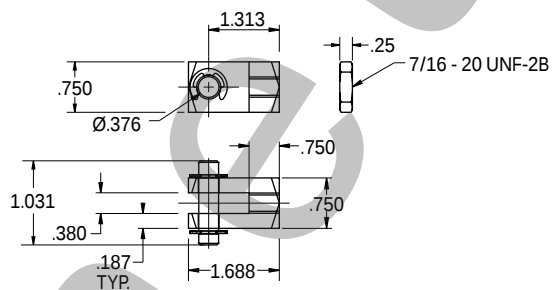
M127004

1-1/16" Bore



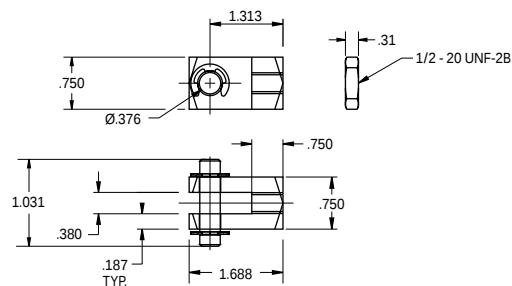
M127005

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



M127006

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



M127007

3" Bore

