M Series

Round Line, Non-Repairable Cylinder Line







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

Piston Rod

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

Rod Thread

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

Rod Bushing

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

End Caps

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

Ports

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

Tube

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

Crimp

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

Piston

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

Piston Seals

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

Magnet

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

Rod Sea

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

Pre-Lubricated

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

Threadlocker® is a registered trademark to the Loctite Corporation.



Standard Specifications:

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

Optional Specifications:

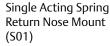
- Corrosion Resistant Delrin® Head and End Cap
- Position Feedback ACCU M Series Magnetic pistons
- Magnetic pistons
- Adjustable cushions
- Double rods
- High and low temperature seals
- Rod wipers





Standard M Series Mounts

Single Acting





Single Acting Spring Return Non-Rotating Rear Pivot Mount (NO2)



Single Acting Spring Return Rear Pivot Mount (S02)



Single Acting Spring **Return Front Block** Mount (S05)



Single Acting Spring Extend Nose Mount (R01)



Single Acting Spring Return Trunnion Mount (S06)



Single Acting Spring **Extend Rear Pivot** Mount (R02)



Single Acting Spring **Extend Front Block** Mount (R05)



Single Acting Spring Return Non-Rotating Nose Mount (N01)



Extend Trunnion Mount (R06)



Double Acting

Double Acting Nose Mount (D01)



Double Acting Trunnion Mount (D06)



Double Acting Corrosion Resistant Nose Mount (DC1)



Double Acting Rear Pivot Mount (D02)



Interchange Option for the 1-1/16" Bore **Double Acting Through** Rod (D13)



Double Acting Corrosion Resistant Rear Pivot Mount (DC2)



Double Acting Through Rod Mount (D03)



Double Acting Through Rod Hollow Rod Mount (DH3)



Resistant Through Rod Mount (DC3)



Double Acting Double Nose Mount (D04)



Double Acting Adjustable Cushion Nose Mount (DG1)



Double Acting Corrosion Double Acting Nose Mount, 2" Bore, 1" Rod (DL1)



Single Acting Spring



Double Acting Front Block Mount (D05)



Double Acting Adjustable Cushion Rear Pivot Mount (DG2)



Double Acting Rear Pivot Mount, 2" Bore, 1" Rod (DL2)



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



Volume Chambers

Nose Mount Volume Chamber (V01)



Rear Pivot Mount Volume Chamber (V02)





How to Order

Base Models 1500 D01 - 02 A - 01	- <u>1</u> A01A
Bore Size	Rod and/or Thread Extension
0313 = 5/16"	Note: Leave blank if rod and/or thread extension is not required.
0438 = 7/16"	1A = Rod Extension (must specify extension)
0563 = 9/16"	Example: 1A 01A (full and fractional length)
0750 = 3/4"	2A = Thread Extension (must specify extension)
0875 = 7/8"	Example: 2A 01A (full and fractional length)
1062 = 1-1/16"	RT = Rod and Thread Extension (must specify extension)
1250 = 1-1/4"	Example: RT 01A01A (full and fractional length)
1500 = 1-1/2"	Note: When applying the RT option, rod extension length must be specified first
1750 = 1-3/4"	and the thread extension length must be specified last. Also, consult factory for double-rod cylinders.
2000 = 2"	ioi didabio rod dymiadioi
2500 = 2-1/2"	Options
3000 = 3"	00 = No Options (or leave blank)
	01 = Bumpers*
Mounting Style	02 = FKM Seals
S01 = Single Acting Spring Return	03 = Magnet**
Nose Mount	04 = Bumpers with Magnet* (see notes below for details)
S02 = Single Acting Spring Return	05 = Pivot Bushing***
Rear Pivot	06 = Pivot Bushing with Bumpers* (see notes below for details)
R01 = Single Acting Spring Extend	07 = Pivot Bushing with FKM Seals
Nose Mount	08 = Pivot Bushing with Magnet* (see notes below for details)
R02 = Single Acting Spring Extend	09 = Pivot Bushing with Bumper
Rear Pivot	and Magnet* (see notes below for details)
N01 = Single Acting Spring Return	- · · · · · · · · · · · · · · · · · · ·
Non-Rotating Nose Mount	See next page for a comprehensive list of options. * Bumpers available on 9/16" through 3" Bore Cylinders. See specific drawing/section and/o
N02 = Single Acting Spring Return	length adder charts for length adder information. (N/A on DG1 and DG2 types.)
Non-Rotating Rear Pivot	** Magnet available on 9/16" Bore. See specific drawing/section and/or length adder charts
D01 = Double Acting Nose Mount	for length adder information.
D02 = Double Acting Rear Pivot	*** Pivot Bushing standard on 5/16", 9/16", 2", 2-21/2", and 3" bore sizes. Optional on all other Rear Pivot cylinders.
D03 = Double Acting Through Rod	other rical river symmetric.
D04 = Double Acting Double Nose	Fractional Inch Stroke
D05 = Double Acting Front Block	A = 0" Stroke
D13 = Interchange Option for 1-1/16" Bore	B = 1/16" Stroke
Double Acting, Through Rod	C = 1/8" Stroke
DH3 = Double Acting Through Rod	D = 3/16" Stroke
Hollow Rod	E = 1/4" Stroke
D06 = Double Acting Trunnion Mount	F = 5/16" Stroke
DG1 = Double Acting Adjustable Cushion	G = 3/8" Stroke
Nose Mount	H = 7/16" Stroke
DG2 = Double Acting Adjustable Cushion	I = 1/2" Stroke
Rear Pivot	J = 9/16" Stroke
DL1 = Double Acting Nose Mount	K = 5/8" Stroke
2" Bore, 1" Rod	L = 11/16" Stroke
DL2 = Double Acting Rear Pivot	M = 3/4" Stroke
2" Bore, 1" Rod	N = 13/16" Stroke
DC1 = Double Acting Corrosion Resistant Nose Mount	O = 7/8" Stroke
DC2 = Double Acting Corrosion Resistant	P = 15/16" Stroke
Rear Pivot	
DC3 = Double Acting Corrosion Resistant	Full Inch Stroke
Through Rod	00 = 0" Stroke
V01 = Nose Mount Volume Chamber	01 = 1" Stroke
V02 = Rear Pivot Mount Volume Chamber	02 = 2" Stroke
DM1 = Nose Mount MRS Interchange	03 = 3" Stroke
DM2 = Rear Pivot Mount MRS Interchange	
DS1 = Stainless Steel Double Acting Nose Mount*	32 = 32" Stroke (maximum)
	See specific cylinder drawing/section at www.asco.com for maximum stroke.
	ood opening dymiddir didwing doddorf at www.adod.com for maximum sirone.

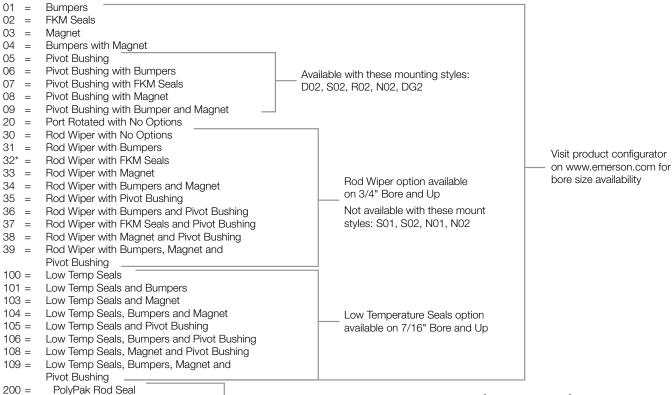




How to Order

Standard M Series Options

Standard M Series Options



3/4" Bore and Up

PolyPak Piston and Rod Seal

Additional M Series Options

300 = 400 =

21 = Bumpers with Ports Rotated

PolyPak Piston Seal

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

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

How To Order – Examples

0438S01-01A

0438 = 7/16" Bore

S01 = Single Acting, Spring Return, Nose Mount

01 = 1" Stroke

A = .00" Fractional Stroke

1062D02-03E-04

1062 = 1-1/16" Bore

D02 = Double Acting, Rear Pivot Mount

03 = 3" Stroke

E = .25" Fractional Stroke

04 = Bumpers and Magnet

1500D04-10I-01-1A02A

1500 = 1-1/2" Bore

D04 = Double Acting, Double Nose

10 = 10" Stroke

I = .50" Fractional Stroke

01 = Bumpers

1A02A = 2" Rod Extension

2000DG2-20H-03-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



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



Length Adders

01 Option (Bumpers)

Bore	Single Acting S01, S02, RO1, R02 N01, N02	Double Acting D01, D02	Corrosion Resistant DC1, DC2	Double Acting D03
5/16	N/A	N/A	N/A	N/A
7/16	N/A	N/A	N/A	N/A
9/16	0.062	0.125	N/A	0.125
3/4	0.125	No Adder	0.281	0.25
7/8	No Adder	No Adder	N/A	0.25
1-1/16	0.125	0.125	0.375	0.25
1-1/4	No Adder	No Adder	N/A	0.25
1-1/2	No Adder	0.125	0.375	0.25
1-3/4	No Adder	No Adder	N/A	0.25
2	No Adder	0.250	N/A	0.25
2-1/2	N/A	0.062	N/A	N/A
3	N/A	0.062	N/A	N/A

03 Option (Magnet)

Bore	Single Acting S01, S02, RO1, R02 N01, N02	Double Acting D01, D02, D03	Corrosion Resistant DC1, DC2
5/16	N/A	N/A	N/A
7/16	N/A	N/A	N/A
9/16	0.531	0.250	N/A
3/4	0.688	No Adder	0.281
7/8	0.531	No Adder	N/A
1-1/16	0.562	No Adder	0.250
1-1/4	0.531	No Adder	N/A
1-1/2	0.437 (R01 = 0.500)	No Adder	0.250
1-3/4	0.656	No Adder	N/A
2	0.461 (R01 & R02 = 0.714)	No Adder	N/A
2-1/2	N/A	No Adder	N/A
3	N/A	No Adder	N/A

04 Option (Bumper and Magnet)

Bore	Single Acting S01, S02, RO1, R02 N01, N02	Double Acting D01, D02	Corrosion Resistant DC1, DC2	Double Acting D03
5/16	N/A	N/A	N/A	N/A
7/16	N/A	N/A	N/A	N/A
9/16	0.713	0.375	N/A	0.375
3/4	0.890	0.125	0.406	0.25
7/8	0.733	0.125	N/A	0.25
1-1/16	0.765 (R01 = 0687)	0.125	0.375	0.25
1-1/4	0.734	0.125	N/A	0.25
1-1/2	0.765 (R01 = 0827, N01 = 0.750)	0.250	0.500	0.25
1-3/4	0.735	0.000	N/A	0.25
2	0.789	0.250	N/A	0.25
2-1/2	N/A	0.062	N/A	N/A
3	N/A	0.062	N/A	N/A

Nose Torque Specs

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

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



Single Acting Spring Return – **0313S01-<u>00</u>A** Front Nose Mount

Standard Stroke Lengths:

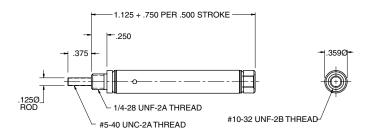
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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-<u>00</u>A**Double Nose or Rear Pivot Mount

Standard Stroke Lengths:

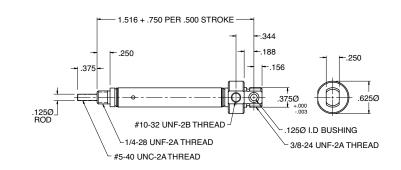
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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-<u>00</u>A** Front Nose Mount

Standard Stroke Lengths:

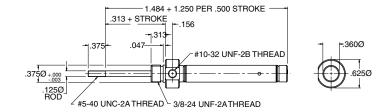
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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-<u>00</u>A**Double Nose or Rear Pivot Mount

Standard Stroke Lengths:

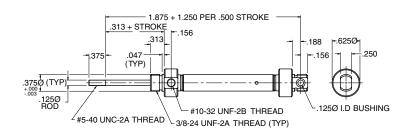
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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





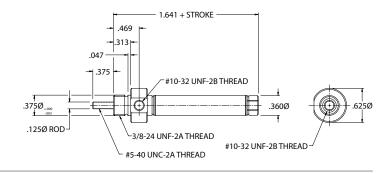
Double Acting – **0313D01-<u>00</u>A** Front Nose Mount

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-<u>00</u>A**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

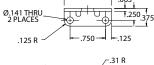
2.031 + STROKE - .469 - .313 - .188 - .156 - .156 - .250 - .125Ø ROD #10-32 UNF-2B THREAD 3/8-24 UNF-2A THREAD (TYP) #5-40 UNC-2A THREAD

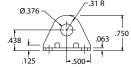
5/16" Bore Cylinder Specifications

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

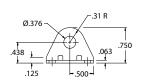
5/16" Bore Accessories

Nose Mounting Brackets M117001 → 1.000 → 1.062

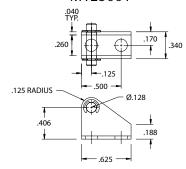




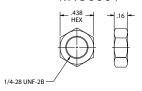
M117002



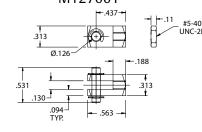
Pivot Mount Bracket M129001



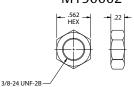
Mounting Nuts M190001



Rod Clevis M127001



M190002



.125 R



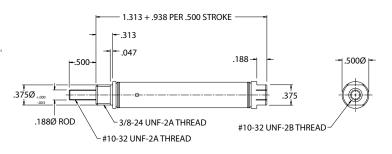
Single Acting Spring Return – **0438S01**-<u>**00**</u>A Front Nose Mount

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



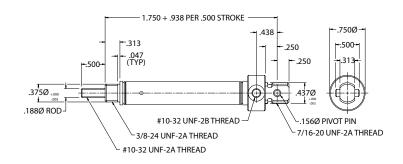
Single Acting Spring Return – **0438S02-<u>00</u>A** Rear Pivot Mount

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



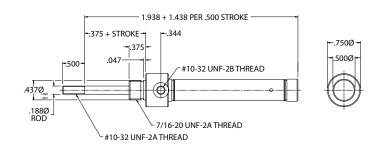
Single Acting Spring Extend – **0438R01**-<u>**00**</u>A Front Nose Mount

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



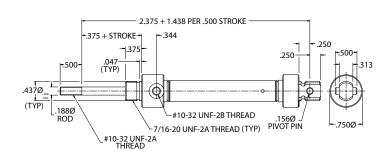
Single Acting Spring Extend – **0438R02-<u>00</u>A** Rear Pivot Mount

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



AVENTICS



7/16" Bore Cylinder

Double Acting – 0438D01-<u>00</u>A

Front Nose Mount

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

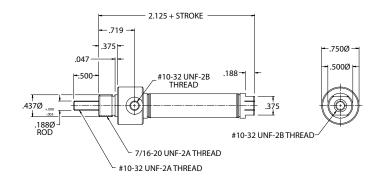
Maximum Stroke: 12"

Base Weight: .07 lbs., plus .02 lbs. per inch of stroke

*Optional Accessories:

• M117003 Mounting Bracket

• M127002 Rod Clevis



Double Acting – **0438D02-<u>00</u>A** Rear Pivot Mount

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

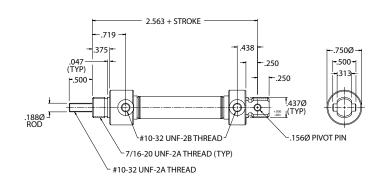
Maximum Stroke: 12"

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

*Optional Accessories:

• M029002 Pivot Bracket

• M127002 Rod Clevis



Double Acting Through Rod Double Nose Mount – **0438D03**-<u>**00**</u>A

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

Maximum Stroke: 12"

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

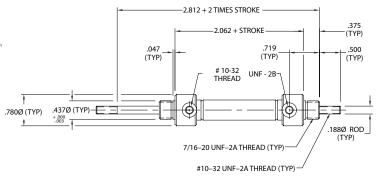
*Optional Accessories:

• M117003 Nose Mount Bracket

• M127002 Rod Clevis

• M190003 Mounting Nut

• M190011 Rod Nut



Single Acting Spring Return – **0438N01-<u>00</u>A** Front Nose Mount **Non-Rotating**

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

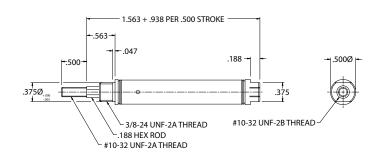
Maximum Stroke: 6"

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

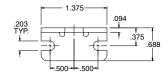
- *Optional Accessories:
- M029002 Pivot Bracket
- M127002 Rod Clevis

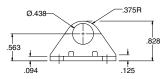
7/16" Bore Cylinder Specifications

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

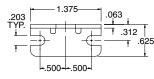
7/16" Bore Accessories

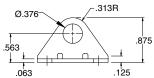
Nose Mounting Brackets M117003



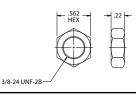


M117004

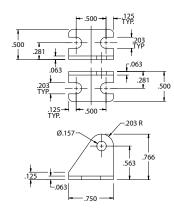




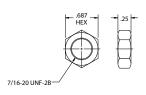
Mounting Nuts M190002



Pivot Mount Bracket M029002

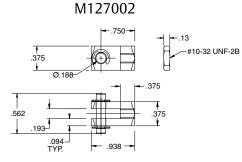


M190003



2.000 + .938 PER .500 STROKE .750Ø -.563 -.500 -.500-.375Ø_{+.000} #10-32 UNF-2B THREAD 156Ø PIVOT PIN 3/8-24 UNF-2A THREAD 7/16-20 UNF-2A THREAD .188 HEX ROD #10-32 UNF-2A THREAD

Rod Clevis





Single Acting Spring Return – **0563S01**-<u>00</u>A 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

For bumper option, add .062" to overall length.

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

Standard Stroke Lengths:

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

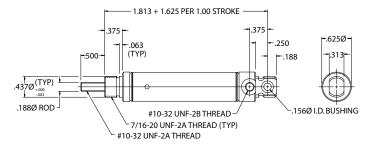
Maximum Stroke: 6"

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

*Optional Accessories:

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

For bumper option, add .062" to overall length.



Single Acting Spring Extend – **0563R01**-<u>**00**</u>A Front Nose Mount

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

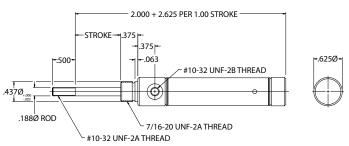
Maximum Stroke: 6"

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

*Optional Accessories:

- M117003 Mounting Bracket
- M127002 Rod Clevis

For bumper option, add .062" to overall length.



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

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

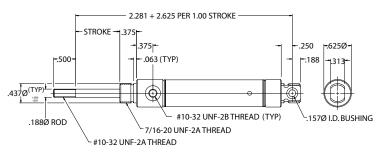
Maximum Stroke: 6"

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

*Optional Accessories:

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

For bumper option, add .062" to overall length.







Double Acting – **0563D01**-<u>**00**</u>A Front Nose Mount

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

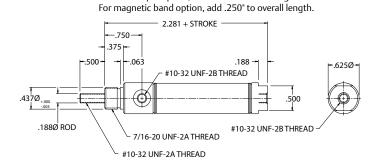
Maximum Stroke: 12"

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.

Double Acting – **0563D02-<u>00</u>A**Double Nose or Rear Pivot Mount

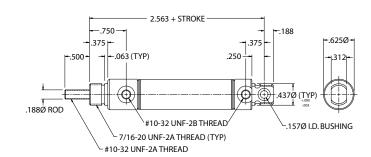
Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 12"

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

*Optional Accessories:

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



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

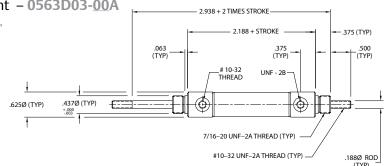
Double Acting Through Rod Double Nose Mount - 0563D03-00A

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

Maximum Stroke: 24"

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

- *Optional Accessories:
- M029002 Pivot Bracket
- M127002 Rod Clevis
- M117003 Nose Mount Bracket
- M190003 Mounting Nut
- M190001 Rod Nut



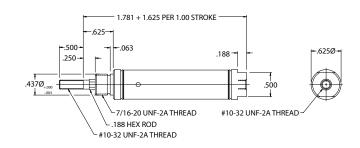
Single Acting Spring Return – **0563N01**-<u>**00**</u>A Front Nose Mount **Non-Rotating**

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-<u>00</u>A**Rear Pivot Mount **Non-Rotating**

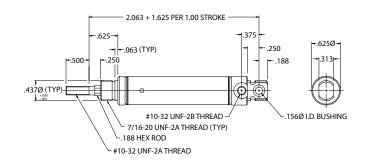
Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

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



Double Acting – 0563D03-<u>00</u>A Through Rod

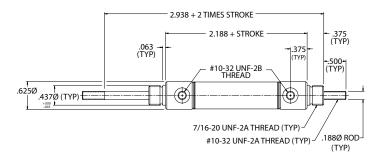
Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

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

*Optional Accessories:

- M117003 Mounting Bracket
- M127002 Rod Clevis



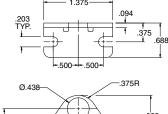


9/16" Bore Cylinder Specifications

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

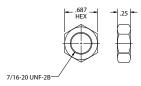
9/16" Bore Accessories

Nose Mounting Bracket M117003

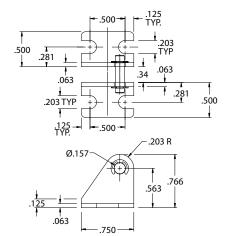




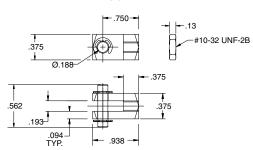
Mounting Nuts M190003



Pivot Mount Bracket M129002



Rod Clevis M127002





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

- 1.500 +1.687 PER 1.00 STROKE .438 -.813Ø -.188 .500Ø .250Ø ROD 1/8" NPTF

1/2-20 UNF-2A THREAD

1/4-28 UNF-2A THREAD

For magnet option, add .687 to overall length.

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

Standard Stroke Lengths:

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

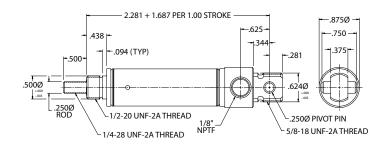
Maximum Stroke: 6"

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

*Optional Accessories:

- M029003 Pivot Bracket
- M127003 Rod Clevis

For magnet option, add .687 to overall length.



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

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

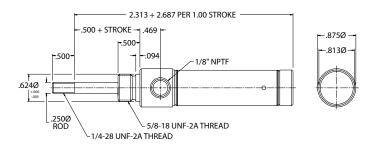
Maximum Stroke: 6"

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

*Optional Accessories:

- M117005 Mounting Bracket
- M127003 Rod Clevis

For magnet option, add .687 to overall length.



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

Standard Stroke Lengths:

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

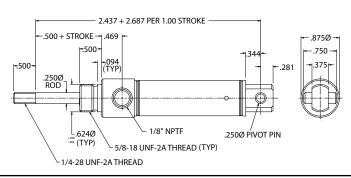
Maximum Stroke: 6"

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

*Optional Accessories:

- M029003 Pivot Bracket
- M127003 Rod Clevis

For magnet option, add .687 to overall length.







Double Acting – **0750D01-<u>00</u>A**Front Nose Mount

Standard Stroke Lengths:

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

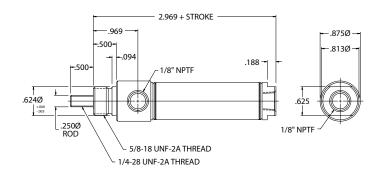
Maximum Stroke: 12"

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

*Optional Accessories:

• M117005 Mounting Bracket

M127003 Rod Clevis



Double Acting – **0750D02-<u>00</u>A** 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"

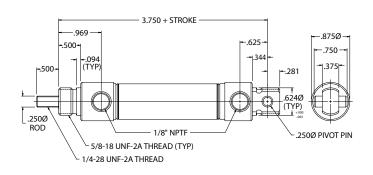
Maximum Stroke: 32"

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

*Optional Accessories:

• M029003 Pivot Bracket

• M127003 Rod Clevis



Double Acting – **0750D04-<u>00</u>A**Double Nose or Rear Pivot Mount

Standard Stroke Lengths:

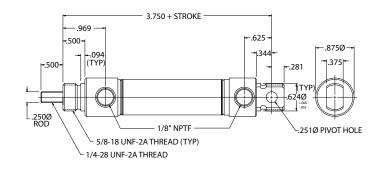
1/2", 1", 1-1/2" 2", 2-1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

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-<u>00</u>A** Front Nose Mount **Non-Rotating**

Standard Stroke Lengths:

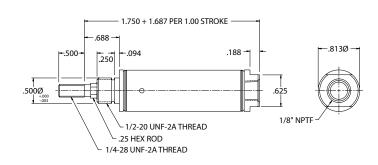
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M117006 Mounting Bracket
- M127003 Rod Clevis



AVENTICS



3/4" Bore Cylinder

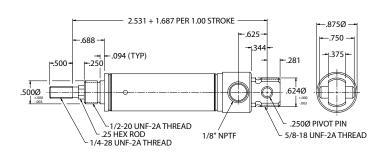
Single Acting Spring Return - 0750N02-00A **Rear Pivot Mount Non-Rotating**

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**-**00**A Through Rod

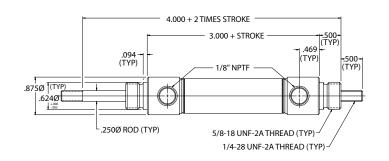
Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

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

*Optional Accessories:

- M117005 Mounting Bracket
- M127003 Rod Clevis



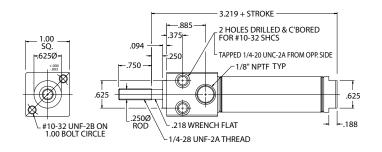
Double Acting - 0750D05-00A Front Block Mount

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



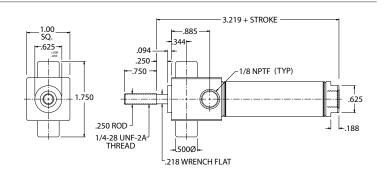
Double Acting - **0750D06**-**<u>00</u>A Trunnion Mount**

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



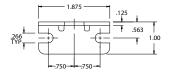


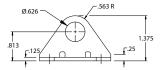
3/4" Bore Cylinder Specifications

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

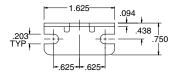
3/4" Bore Accessories

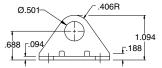
Nose Mounting Brackets M117005



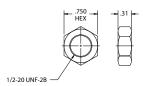


M117006

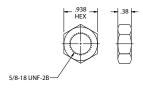




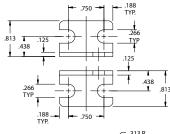
Mounting Nuts M190004

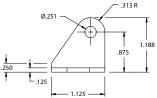


M190005

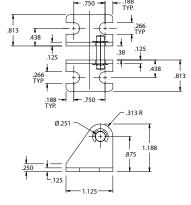


Pivot Mount Bracket M029003

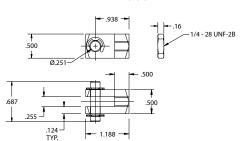




M129003



Rod Clevis M127003





Single Acting Spring Return – **0875S01**-<u>**00**</u>A Front Nose Mount

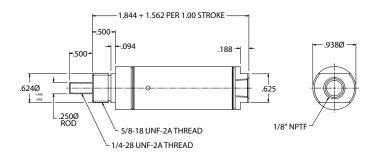
Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M117005 Mounting Bracket
- M127003 Rod Clevis



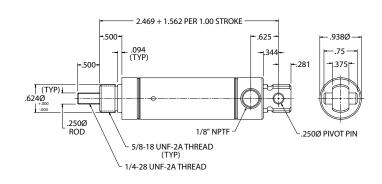
Single Acting Spring Return – **0875S02-**00A Rear Pivot Mount

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



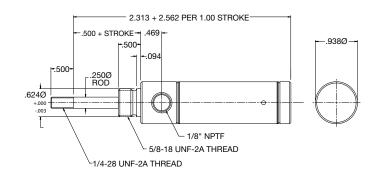
Single Acting Spring Extend – **0875R01**-<u>**00**</u>A Front Nose Mount

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



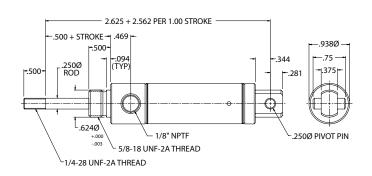
Single Acting Spring Extend – **0875R02-<u>00</u>A**Rear Pivot Mount

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





Double Acting – **0875D01-<u>00</u>A**Front Nose Mount

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

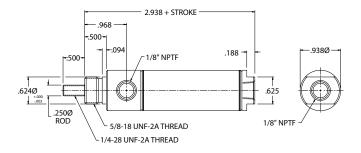
Maximum Stroke: 32"

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

*Optional Accessories:

• M117005 Mounting Bracket

• M127003 Rod Clevis



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

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

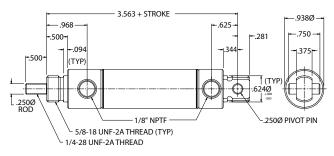
Double Acting – **0875D02-**00A Rear Pivot Mount

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

Maximum Stroke: 32"

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

*Optional Accessories:
• M029003 Pivot Bracket
• M127003 Rod Clevis



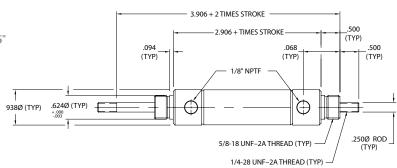
Double Acting – **0875D03**-<u>**00**</u>A Through Rod Double Nose Mount

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

Maximum Stroke: 32"

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

- *Optional Accessories:
- M029002 Pivot Bracket
- M127003 Rod Clevis
- M117005 Nose Mount Bracket
- M190005 Mounting Nut
- M190001 Rod Nut



Double Acting – **0875D04-<u>00</u>A**Double Nose or Rear Pivot Mount

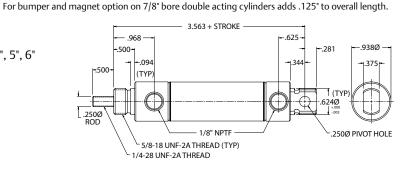
Standard Stroke Lengths: 1/2", 1", 1-1/2" 2", 2-1/2", 3", 4", 5", 6"

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





Single Acting Spring Return – **0875N01-<u>00</u>A**Front Nose Mount **Non-Rotating**

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

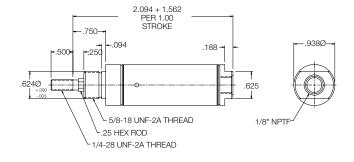
Maximum Stroke: 6"

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

*Optional Accessories:

• M117005 Mounting Bracket

• M127003 Rod Clevis



Single Acting Spring Return – **0875N02-<u>00</u>A**Rear Pivot Mount **Non-Rotating**

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

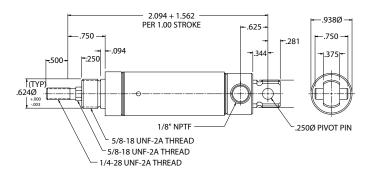
Maximum Stroke: 6"

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

*Optional Accessories:

• M029003 Pivot Bracket

• M127003 Rod Clevis



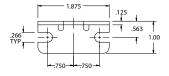


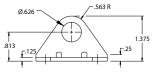
7/8" Bore Cylinder Specifications

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

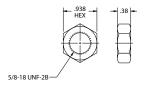
7/8" Bore Accessories

Nose Mounting Brackets M117005

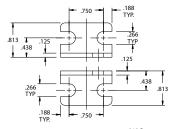


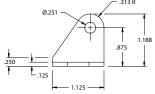


Mounting Nuts M190005

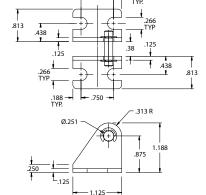


Pivot Mount Bracket M029003

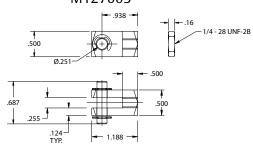




M129003



Rod Clevis M127003





Single Acting Spring Return – 1062S01-<u>00</u>A Front Nose Mount

Standard Stroke Lengths:

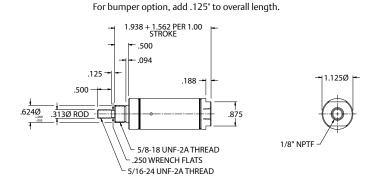
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

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-<u>00</u>A Rear Pivot Mount

Standard Stroke Lengths:

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

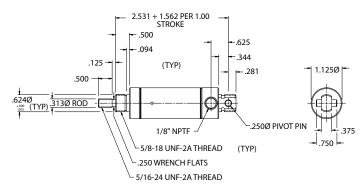
Maximum Stroke: 6"

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

*Optional Accessories:

- M029003 Pivot Bracket
- M127004 Rod Clevis

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



Single Acting Spring Extend – 1062R01-<u>00</u>A Front Nose Mount

Standard Stroke Lengths:

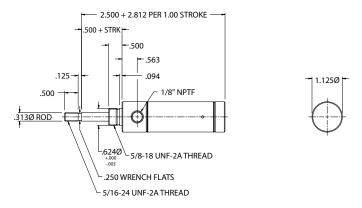
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

- *Optional Accessories:
- M117005 Mounting Bracket
- M127004 Rod Clevis

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





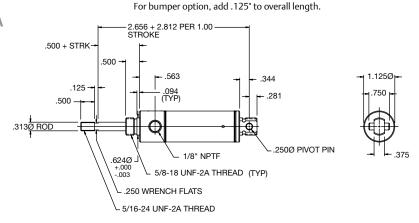
Single Acting Spring Extend – 1062R02-<u>00</u>A Rear Pivot Mount

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

Maximum Stroke: 6"

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

- *Optional Accessories:
- M029003 Pivot Bracket
- M127004 Rod Clevis



Double Acting – 1062D01-<u>00</u>A Front Nose Mount

Standard Stroke Lengths:

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

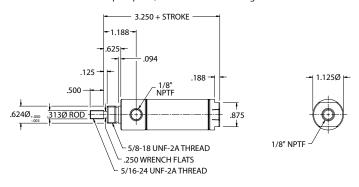
Maximum Stroke: 12"

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

*Optional Accessories:

- M117005 Mounting Bracket
- M127004 Rod Clevis

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



Double Acting – 1062D02-00A Rear Pivot Mount

Standard Stroke Lengths:

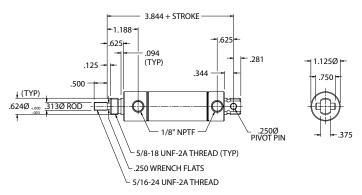
1/2", 1", 1-1/2" 2", 2-1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

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

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





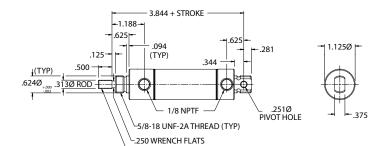
Double Acting – 1062D04-00A Double Nose or Rear Pivot Mount

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



5/16-24 UNF-2A THREAD

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

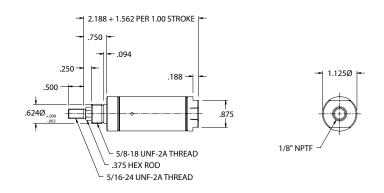
Single Acting Spring Return – 1062N01-<u>00</u>A Front Nose Mount Non-Rotating

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

Maximum Stroke: 6"

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

- *Optional Accessories:
- M117005 Mounting Bracket
- M127004 Rod Clevis



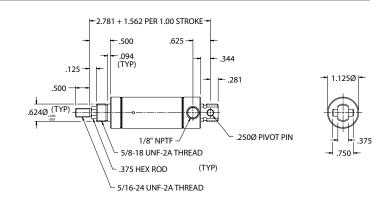
Single Acting Spring Return – 1062N02-<u>00</u>A Rear Pivot Mount Non-Rotating

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

Maximum Stroke: 6"

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

- *Optional Accessories:
- M029003 Pivot Bracket
- M127004 Rod Clevis



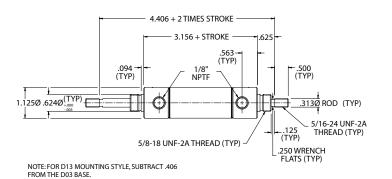
Double Acting – 1062D03-<u>00</u>A Through Rod

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

Maximum Stroke: 12"

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

- *Optional Accessories:
- M117005 Mounting Bracket
- M127004 Rod Clevis







Double Acting – 1062DH3-<u>00</u>A Through Rod Hollow Rod

Standard Stroke Lengths:

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

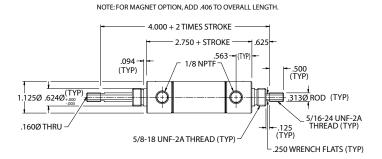
Maximum Stroke: 12"

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

*Optional Accessories:

• M117005 Mounting Bracket

• M127004 Rod Clevis



Double Acting – 1062D05-<u>00</u>A Front Block Mount

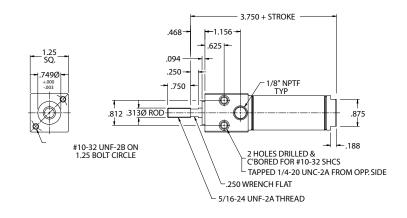
Standard Stroke Lengths:

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

Maximum Stroke: 12"

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

*Optional Accessories:
• M127004 Rod Clevis



Bore Double Acting – 1062D06-<u>00</u>A Trunnion Mount

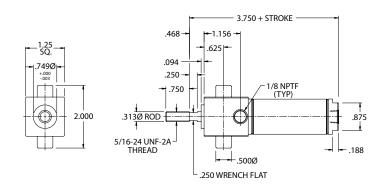
Standard Stroke Lengths:

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



28

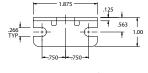


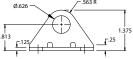
1-1/16" Bore Cylinder Specifications

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

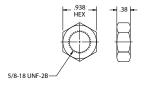
1-1/16" Bore Accessories

Nose Mounting Brackets M117005

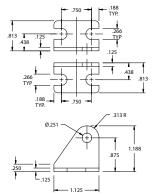




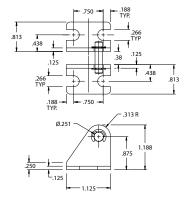
Mounting Nuts M190005



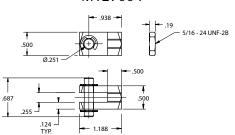
Pivot Mount Bracket M029003



M129003



Rod Clevis M127004





Single Acting Spring Return – **1250S01-<u>00</u>A** Front Nose Mount

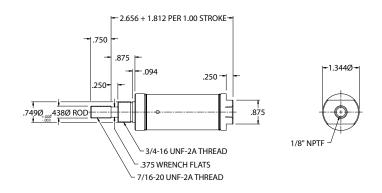
Standard Stroke Lengths:

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-<u>00</u>A**Double Nose or Rear Pivot Mount

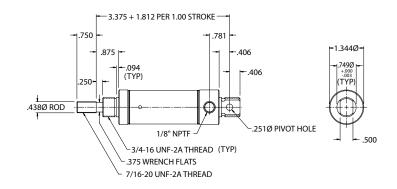
Standard Stroke Lengths:

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



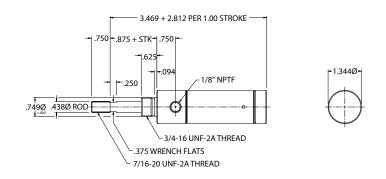
Single Acting Spring Extend – 1250R01-00A Front Nose Mount

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



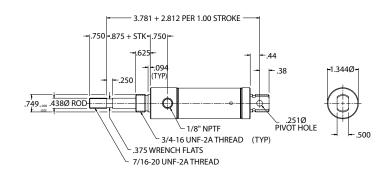
Single Acting Spring Extend – 1250R02-00A Double Nose or Rear Pivot Mount

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





Double Acting – 1250D01-<u>00</u>A 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

Double Acting – **1250D02-<u>00</u>A**Double Nose or Rear Pivot Mount

Standard Stroke Lengths:

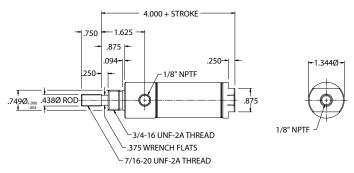
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

Maximum Stroke: 32"

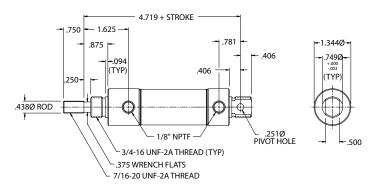
Base Weight: .71 lbs., plus .08 lbs. per inch of stroke

- *Optional Accessories:
- M117007 Mounting Bracket
- M229003 Pivot Bracket
- M127005 Rod Clevis

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



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



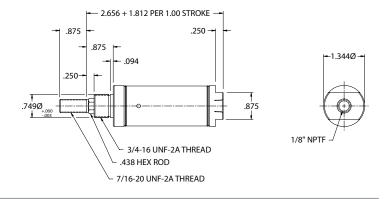
Single Acting Spring Return – **1250N01-<u>00</u>A**Front Nose Mount **Non-Rotating**

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



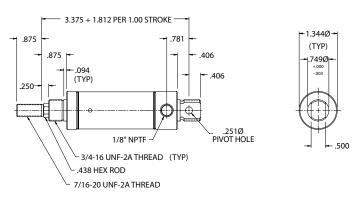
Single Acting Spring Return – 1250N02-<u>00</u>A Rear Pivot Mount Non-Rotating

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



.438Ø ROD (TYP)

(TYP)

.375 WRENCH FLATS (TYP)



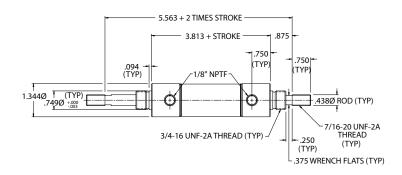
1-1/4" Bore Cylinder Double Acting – 1250D03-<u>00</u>A Through Rod

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



5.563 + 2 TIMES STROKE 3.813 + STROKE

1/8 NPTI

3/4-16 UNF-2A THREAD (TYP)

.094 -(TYP)

.749Ø +000

.250Ø THRU

Double Acting – 1250DH3-<u>00</u>A 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

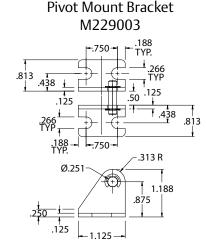
- *Optional Accessories:
- M117007 Mounting Bracket
- M127005 Rod Clevis

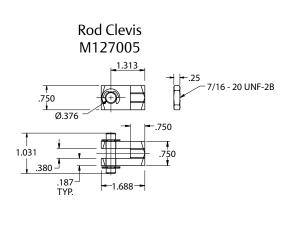
1-1/4" Bore Cylinder Specifications

- (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.
- \bullet FKM seals are optional on all cylinders for 200 °F to 350 °F applications.
- Bumpers are optional on all 1-1/4" bore cylinders (except in combination with FKM option).
- Magnetic piston optional on all double acting 1-1/4" bore cylinders (except in combination with FKM option).
- Bumper and magnet option on 1-1/4" bore double acting cylinders adds .125" to overall length.

1-1/4" Bore Accessories Nose Mounting Brackets

M117007 2.50 1.25 1.75 1.50 0.751 Mounting Nuts M190006







AVENTICS



1-1/2" Bore Cylinder

Single Acting Spring Return – **1500S01-<u>00</u>A**Front Nose Mount

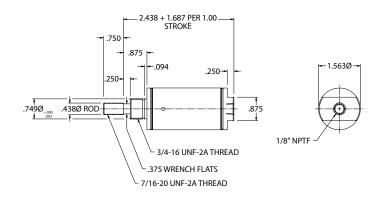
Standard Stroke Lengths:

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-<u>00</u>A**Rear Pivot Mount

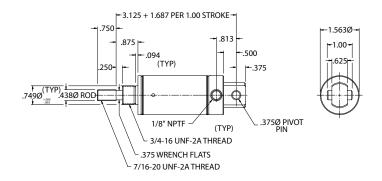
Standard Stroke Lengths:

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



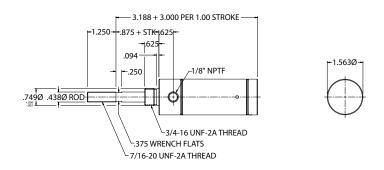
Single Acting Spring Extend – **1500R01**-<u>**00**</u>A Front Nose Mount

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



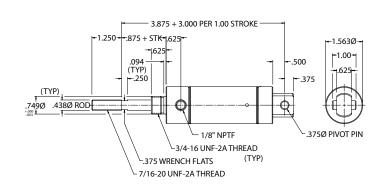
Single Acting Spring Extend – **1500R02-<u>00</u>A**Rear Pivot Mount

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





Double Acting – **1500D01**-<u>**00**</u>A 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

3.688 + STROKE 3.688 + STROKE -1.500 -1.5630 -1.5630 -1.8" NPTF -3/4-16 UNF-2A THREAD

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

Double Acting – 1500D02-<u>00</u>A Rear Pivot Mount

Standard Stroke Lengths:

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

Maximum Stroke: 32"

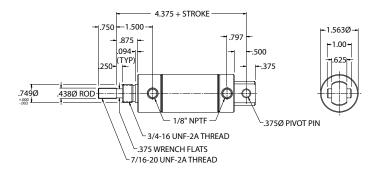
Base Weight: .73 lbs., plus .08 lbs. per inch of stroke

*Optional Accessories:

- M029004 Pivot Bracket
- M127005 Rod Clevis

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

.375 WRENCH FLATS 7/16-20 UNF-2A THREAD



Double Acting – **1500D04-<u>00</u>A**Double Nose Mount

Standard Stroke Lengths:

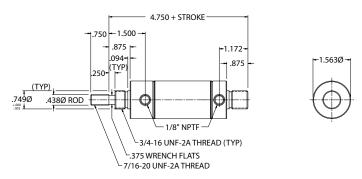
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

Maximum Stroke: 32"

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

- *Optional Accessories:
- M117007 Mounting Bracket
- M127005 Rod Clevis

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



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

Standard Stroke Lengths:

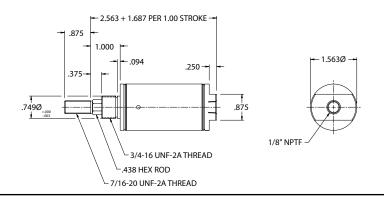
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Stroke: 6"

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

*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis



Visit our website at Emerson.com/AVENTICS

AVENTICS



1-1/2" Bore Cylinder

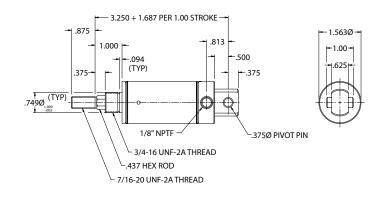
Single Acting Spring Return – 1500N02-<u>00</u>A Rear Pivot Mount Non-Rotating

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



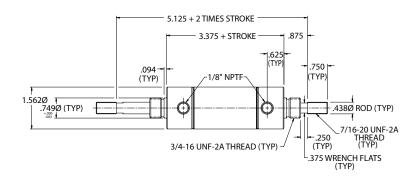
Double Acting – 1500D03-<u>00</u>A Through Rod

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



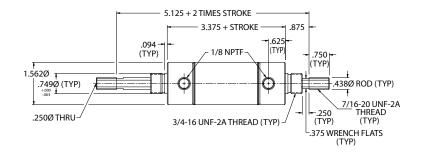
Double Acting – 1500DH3-<u>00</u>A Through Rod Hollow Rod

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



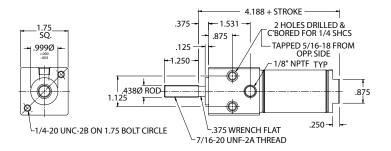
Double Acting – 1500D05-<u>00</u>A Front Block Mount

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**-<u>**00**</u>A

Trunnion Mount

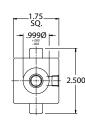
Standard Stroke Lengths:

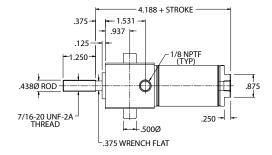
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

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

- *Optional Accessories:
- M029006 Pivot Bracket
- M127005 Rod Clevis



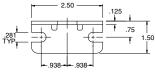


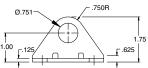
1-1/2" Bore Cylinder Specifications

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

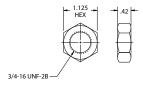
1-1/2" Bore Accessories

Nose Mounting Brackets M117007

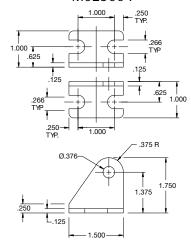




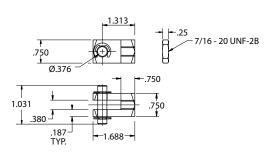
Mounting Nuts M190006



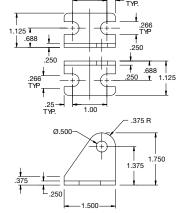
Pivot Mount Bracket M029004



Rod Clevis M127005



M029006



AVENTICS



1-3/4" Bore Cylinder

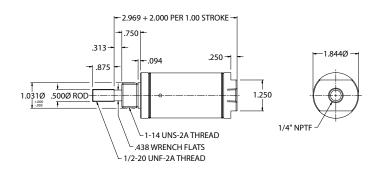
Single Acting Spring Return – **1750S01**-<u>00</u>A Front Nose Mount

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



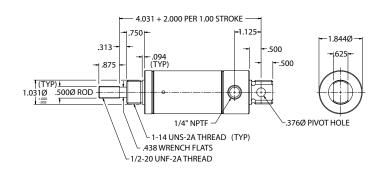
Single Acting Spring Return – **1750S02-**00A Double Nose or Rear Pivot Mount

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



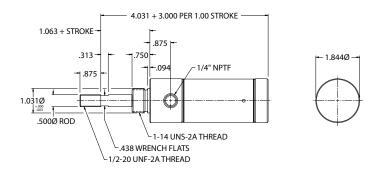
Single Acting Spring Extend – **1750R01-<u>00</u>A** Front Nose Mount

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

Maximum Stroke: 6"

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

- *Optional Accessories:
- M117008 Mounting Bracket
- M127006 Rod Clevis



Double Acting – **1750D01**-<u>**00**</u>A Front Nose Mount

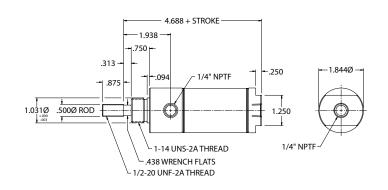
Standard Stroke Lengths: 1/2". 1". 1-1/2". 2". 2-1/2". 3"

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

Maximum Stroke: 12"

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

- *Optional Accessories:
- M117008 Mounting Bracket
- M127006 Rod Clevis





1-3/4" Bore Cylinder

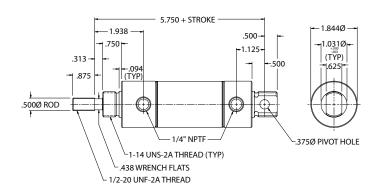
Double Acting – 1750D02-00A Double Nose or Rear Pivot Mount

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

Maximum Stroke: 32"

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

- *Optional Accessories:
- M117008 Mounting Bracket
- M129005 Pivot Bracket
- M127006 Rod Clevis



Double Acting Double Nose Mount - 1750D03-00A

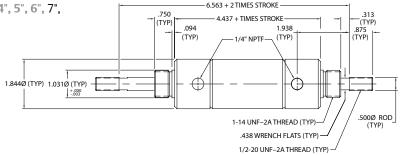
Standard Stroke Lengths: 1/2", 1", 1-1/2" 2", 2-1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

Maximum Stroke: 32"

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

*Optional Accessories:

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



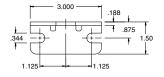
1-3/4" Bore Cylinder Specifications

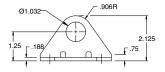
- (2.4) x (Air Line Pressure) = Approximate Force Exerted
- Enclosed spring force: 11 lbs. retracted, 24 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- FKM seals are optional on all cylinders for 200 °F to 350 °F applications.
- Bumpers are optional on all 1-3/4" bore cylinders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



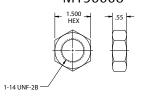
1-3/4" Bore Accessories

Nose Mounting Brackets M117008

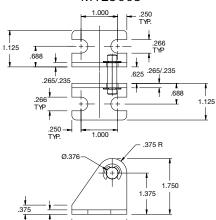




Mounting Nuts M190008

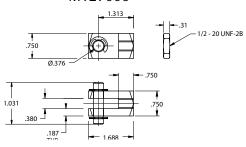


Pivot Mount Bracket M129005



.265/.235

Rod Clevis M127006





2" Bore Cylinder

Single Acting Spring Return – 2000S01-<u>00</u>A Front Nose Mount

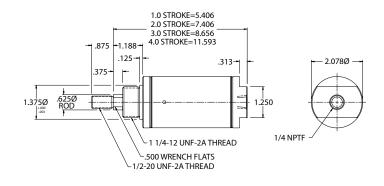
Standard Stroke Lengths:

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-<u>00</u>A Double Nose or Rear Pivot Mount

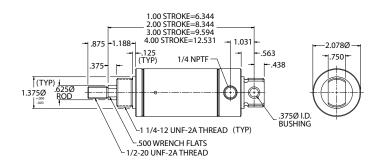
Standard Stroke Lengths:

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-<u>00</u>A Front Nose Mount

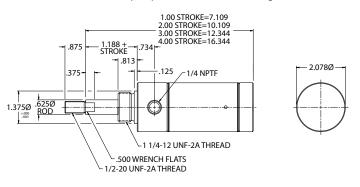
Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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-<u>00</u>A Double Nose or Rear Pivot Mount

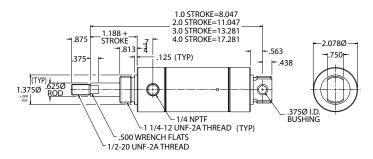
Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"

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.



AVENTICS



2" Bore Cylinder

Double Acting – 2000D01-<u>00</u>A Front Nose Mount

Standard Stroke Lengths:

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

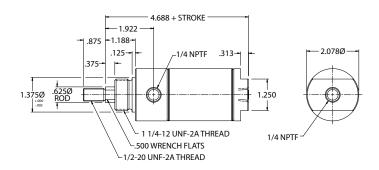
Maximum Stroke: 12"

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

*Optional Accessories:

• M117009 Mounting Bracket

• M127006 Rod Clevis



For bumper option, add .250 to overall length.

Double Acting – 2000D02-00A Double Nose or Rear Pivot Mount

Standard Stroke Lengths:

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

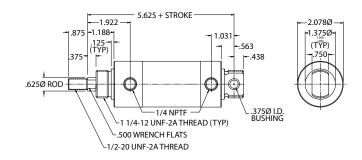
Maximum Stroke: 32"

Base Weight: 1.62 lbs., plus .15 lbs. per inch of stroke

*Optional Accessories:

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

For bumper option, add .250 to overall length.



Double Acting – 2000D03-<u>00</u>A Through Rod

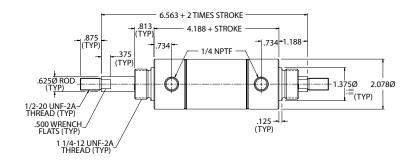
Standard Stroke Lengths:

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

Maximum Stroke: 12"

Base Weight: 1.97 lbs., plus .24 lbs. per inch of stroke

- *Optional Accessories:
- M117009 Mounting Bracket
- M127006 Rod Clevis



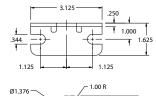
2" Bore Cylinder Specifications

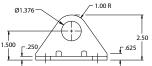
- (3.1) x (Air Line Pressure) = Approximate Force Exerted
- Enclosed spring force: 15 lbs. retracted, 30 lbs. extended.
- Mounting nuts are standard on all nose mount cylinders.
- FKM seals are optional on all cylinders for 200 °F to 350 °F applications.
- Bumpers are optional on all 2" bore cylinders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



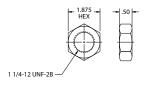
2" Bore Accessories

Nose Mounting Brackets M117009

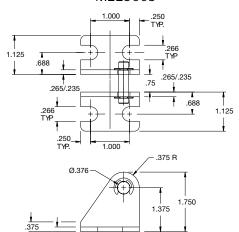




Mounting Nuts M190009

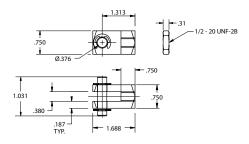


Pivot Mount Bracket M229005



1.500

Rod Clevis M127006



AVENTICS



2-1/2" Bore Cylinder

Double Acting - 2500D01-<u>00</u>A Front Nose Mount

Standard Stroke Lengths:

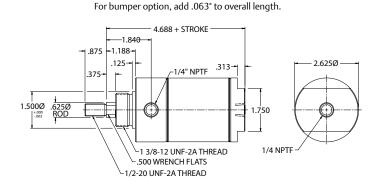
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

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.

-1.840

.125-(TYP)

.875 -1.188-

375

1.50<u>0</u>Ø

5.625 + STROKE

1/4" NPTF

3/8-12 UNF-2A THREAD (TYP)

.500 WRENCH FLATS

1/2-20 UNF-2A THREAD

1.031

437

L .376Ø I.D. → PIVOT BUSHING

2 625Ø

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

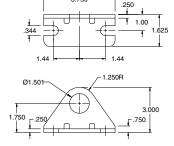
2-1/2" Bore Cylinder Specifications

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

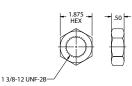
NOTE: Consult factory for 2-1/2" bore D03 mount information.

2-1/2" Bore Accessories

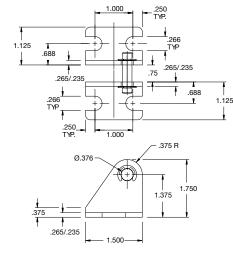
Nose Mounting Brackets M117010 & M117010S*



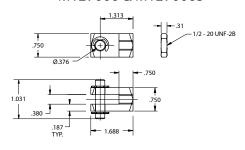
Mounting Nuts M190012 & M190012S*



Pivot Mount Bracket M229005 & M229005S*



Rod Clevis M127006 & M127006S*



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

3.156Ø -

875



3" Bore Cylinder

Double Acting - 3000D01-00A Front Nose Mount

Standard Stroke Lengths:

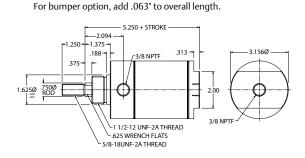
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 12"

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

*Optional Accessories:

- M117009 Mounting Bracket
- M127007 Rod Clevis



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

1.31

.813

625

.501Ø I.D.

PIVOT BUSHING

6.500 PLUS STROKE

- 3/8 NPTF

.625 WRENCH FLAT 5/8-18 UNF-2A THREAD

-1 1/2-12 UNF-2A THREAD (TYP.)

2.094

375

1.250

1.625Ø (TYP.) .750Ø ROD-

.375

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

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

Maximum Stroke: 32"

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

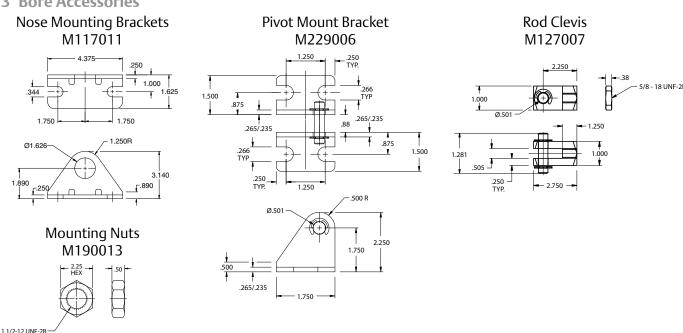
*Optional Accessories:

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

3" Bore Cylinder Specifications

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

3" Bore Accessories





Adjustable Cushion Cylinders

3/4" Bore Double Acting – **0750DG1-<u>00</u>A** 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

Ø.624 Ø.624 Ø.621 Ø.6250 ROD 3.406 + STROKE 96 96 1/8 NPTF (TYP) 5/8 - 18 UNF-2A THREADS 1/4 - 28 UNF-2A THREADS

3/4" Bore Double Acting – **0750DG2-<u>00</u>A** 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

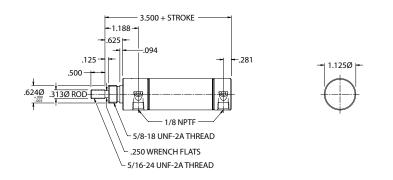
1-1/16" Bore Double Acting – **1062DG1-**00A Front Nose Mount with Cushions

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



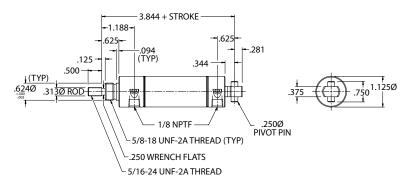
1-1/16" Bore Double Acting – **1062DG2-<u>00</u>A** Rear Pivot Mount with Cushions

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

Maximum Stroke: 32"

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

- *Optional Accessories:
- M117005 Mounting Bracket
- M029003 Pivot Bracket
- M127004 Rod Clevis



Adjustable Cushion Cylinder Specifications

- Refer to specific bore size in standard cylinder section for specifications.
- * See page 51 58 for accessory details.



Adjustable Cushion Cylinders

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

Available Stroke Lengths:

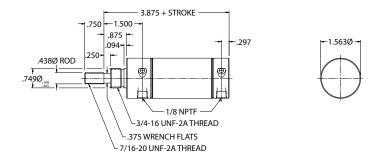
1/2", 1", 1-1/2", 2", 2-1/2", *3", *4", *5", *6", *7", *8", *9", *10", *11", *12" *with magnet

Maximum Stroke: 12"

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

*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis



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

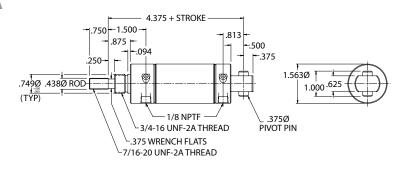
Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12"

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:

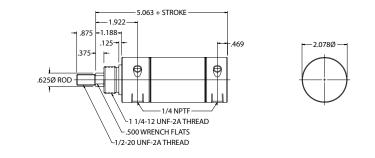
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

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 – **2000DG2-00**A Rear Pivot Mount with Cushions

Standard Stroke Lengths:

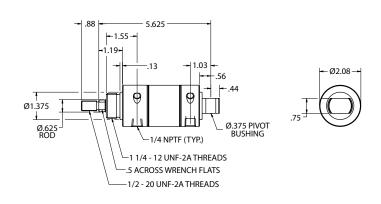
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

Maximum Stroke: 32"

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

*Optional Accessories:

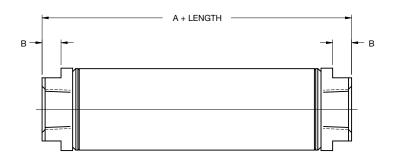
- M117009 Mounting Bracket
- M229005 Pivot Bracket
- M127006 Rod Clevis
- * See page 51 58 for accessory details.

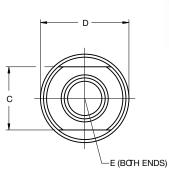






Volume Chambers

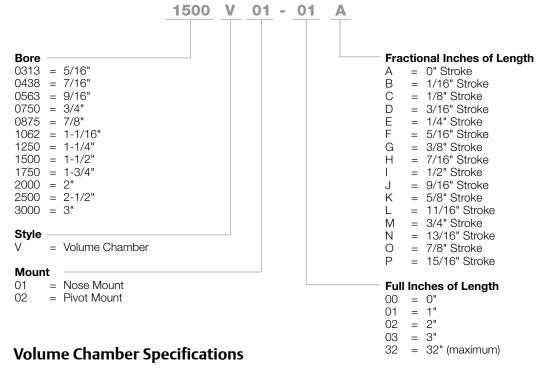






Bore	A	В	С	D	E	Cubic Inches Per Inch	Standard Length	Maximum Length
3/4"	1.062	0.190	0.625	0.813	1/8"	0.440	1" Increments to 4"	32"
1-1/16"	1.188	0.190	0.875	1.125	1/8"	0.886	1" Increments to 8"	32"
1-1/2"	1.375	0.250	0.875	1.563	1/8"	1.767	1" Increments to 16"	32"
2"	1.767	0.310	1.250	2.078	1/4"	3.141	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



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



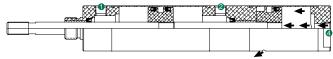
Multi-Position Cylinders

Features

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

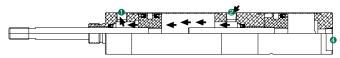
Step 1

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



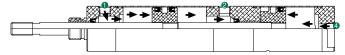
Step 2

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



Step 3

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

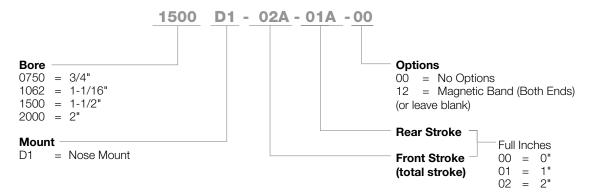


Step 4

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



How To Order



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".

I=1/2" For rear strokes of over 8" and/or combined strokes over 24", consult factory.

Fractional Inches
A = 0"





Multi-Position Cylinders

3/4" Bore Standard – 0750D1-<u>00</u>A-<u>00</u>A-00

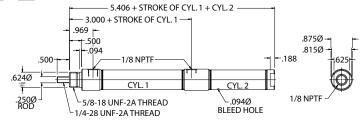
3/4" Bore Magnetic Band (both ends) - 0750D1-00A-00A-12

Front Nose Mount

Maximum Stroke: 24"

*Optional Accessories:

• M117005 Mounting Bracket



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

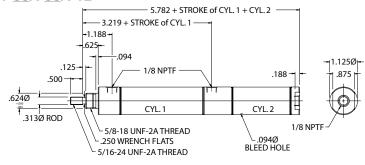
1-1/16" Bore Magnetic Band (both ends) – 1062D1-00A-00A-12

Front Nose Mount

Maximum Stroke: 24"

*Optional Accessories:

• M117005 Mounting Bracket



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

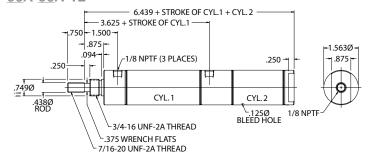
1-1/2" Bore Magnetic Band (both ends) - 1500D1-00A-00A-12

Front Nose Mount

Maximum Stroke: 24"

*Optional Accessories:

• M117007 Mounting Bracket



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

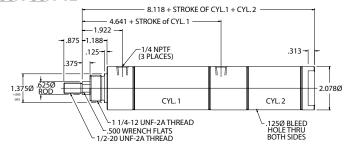
2" Bore Magnetic Band (both ends) - 2000D1-00A-00A-12

Front Nose Mount

Maximum Stroke: 24"

*Optional Accessories:

• M117009 Mounting Bracket





^{*} See page 51-58 for accessory details.

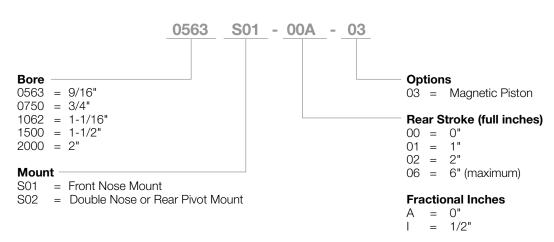


Features

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



How To Order



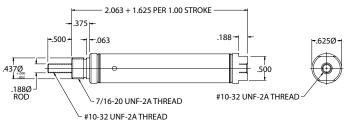


9/16" Bore Single Acting Spring Return – **0563S01**-<u>**00**</u>A-**03** Front Nose Mount with Magnetic Band

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

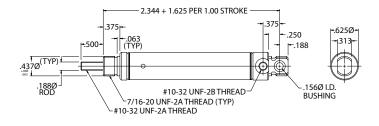


9/16" Bore Single Acting Spring Return – **0563S02-<u>00</u>A-03** Double Nose or Rear Pivot Mount with Magnetic Band

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

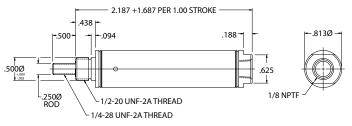


3/4" Bore Single Acting Spring Return – **0750S01**-<u>**00**</u>A-**03** Front Nose Mount with Magnetic Band

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

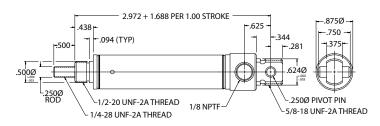


3/4" Bore Single Acting Spring Return – **0750S02**-<u>**00**</u>A-**03** Double Nose or Rear Pivot Mount with Magnetic Band

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

Maximum Stroke: 6"

- *Optional Accessories:
- M029003 Pivot Bracket
- M127002 Rod Clevis
- * See page 51-58 for accessory details.





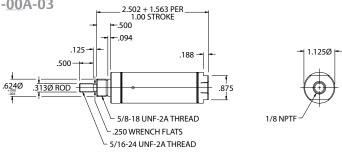


1-1/16" Bore Single Acting Spring Return – **1062S01**-<u>**00**</u>A-**03** Front Nose Mount with Magnetic Band

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

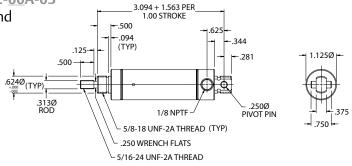


1-1/16" Bore Single Acting Spring Return – **1062S02-<u>00</u>A-03** Double Nose or Rear Pivot Mount with Magnetic Band

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

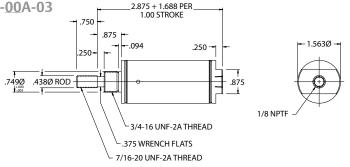


1-1/2" Bore Single Acting Spring Return – **1500S01**-<u>**00**</u>A-**03** Front Nose Mount with Magnetic Band

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

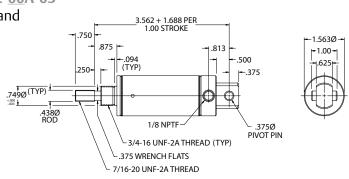


1-1/2" Bore Single Acting Spring Return – **1500S02-<u>00</u>A-03** Double Nose or Rear Pivot Mount with Magnetic Band

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

Maximum Stroke: 6"

- *Optional Accessories:
- M029004 Pivot Bracket
- M127005 Rod Clevis
- * See page 51 58 for accessory details.





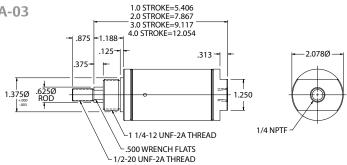


2" Bore Single Acting Spring Return – **2000S01-00A-03** Front Nose Mount with Magnetic Band

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

Maximum Stroke: 4"

- *Optional Accessories:
- M117009 Mounting Bracket
- M127006 Rod Clevis

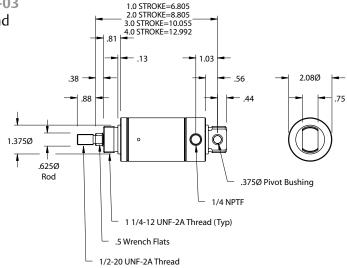


2" Bore Single Acting Spring Return – 2000S02-00A-03 Double Nose or Rear Pivot Mount with Magnetic Band

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

Maximum Stroke: 4"

- *Optional Accessories:
- M117009 Mounting Bracket
- M129005 Pivot Bracket
- M127006 Rod Clevis



^{*} See page 51 – 58 for accessory details.



Hole Punch Cylinders

Features

The durable design of our Hole Punch Cylinder enables you to punch millions of maintenance-free holes. The Numatics Hole Punch Cylinder is perfect for punching holes in LLDPE (Linear Low Density Polyethylene) film. The ability to replace the punch is an integral part of the design. The punches are replaceable without having to replace the cylinder. Our razor sharp plastic punches are



self-sharpening and are able to significantly outlast conventional steel punches in most applications. We offer the option of an air ejector, foam ejector, and auto ejector. These ejectors discharge material slug from the center of the punch as well as prevent debris build-up. Our punches are available in eight different punch sizes from 1/8" to 3/4".

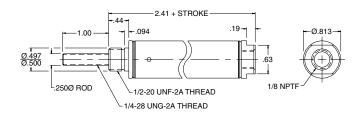
Our punches may be used with any of our M Series cylinders that have 1/4-28 UNF-2A male threads. For your convenience, configured three standard Hole Punch Cylinders designed specifically for hole punch applications. The standard Hole Punch Cylinder is 3/4" bore with 1" stroke, nose mount, spring return,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

3/4" Bore Single Acting Spring Return – M12263-001 1/2" Stroke

- Bumpers
- 1/2" Thread Extension

3/4" Bore Single Acting Spring Return – M12263-01A 1" Stroke

- Bumpers
- 1/2" Thread Extension

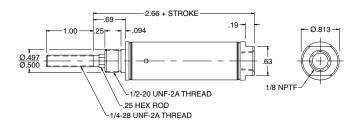


3/4" Bore Single Acting Spring Return – M12264-001 1/2" Stroke – Non-Rotating Rod

- Bumpers
- 1/2" Thread Extension

3/4" Bore Single Acting Spring Return – M12264-01A 1" Stroke – Non-Rotating Rod

- Bumpers
- 1/2" Thread Extension

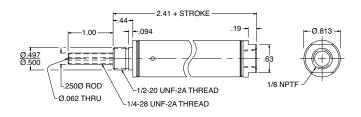


3/4" Bore Single Acting Spring Return – M12265-001 1/2" Stroke – Hollow Rod

- Bumpers
- 1/2" Thread Extension

3/4" Bore Single Acting Spring Return – M12265-01A 1" Stroke – Hollow Rod

- Bumpers
- 1/2" Thread Extension

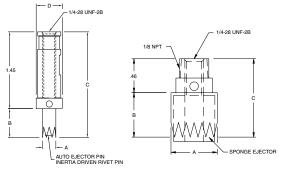




Hole Punches

Benefits

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



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

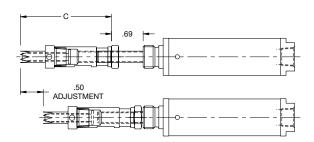
Hole Diameters 3/8" – 3/4"

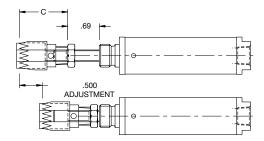
NOTE:

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

Part #	Hole Diameter	A	В	С	Standard Ejector Type	Adapter Required
PCN-18	1/8"	.125	.54	1.00	1.00 Auto Ejector Pin	
PCN-14	1/4"	.250	.54	1.00	00 Auto Ejector Pin A	
PCN-38	3/8"	.375	.54	1.00	Auto Ejector Pin	None
PCN-716	7/16"	.437	.54	1.00	Auto Ejector Pin	None
PCN-12	1/2"	.500	.54	1.00	Auto Ejector Pin	None
PCN-916	9/16"	.562	.60	1.06	Auto Ejector Pin	None
PCN-58	5/8"	.625	.60	1.06	Auto Ejector Pin None	
PCN-34	3/4"	.750	.60	1.06	Auto Ejector Pin None	

Cylinder and Punch Assemblies





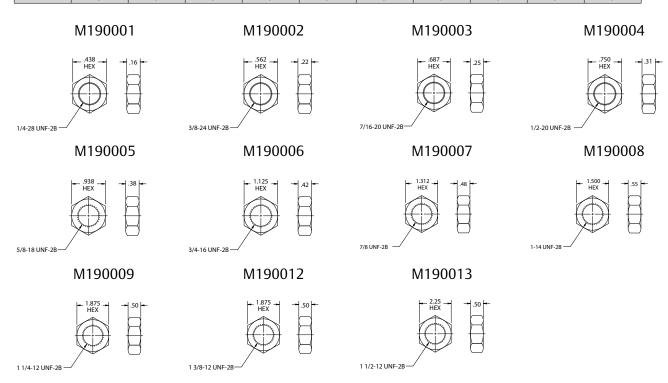


Mounting Nuts

Mounting Nuts Included on Cylinder

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

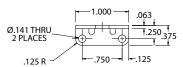
Bore	R02	D05	D06	D13	DH3	DL1	DL2	DC1	DC2	DC3
0.313	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0.438	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0.563	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0.750	No	No Thread	No Thread	N/A	N/A	N/A	N/A	No	No	No
0.875	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1.062	No	No Thread	No 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

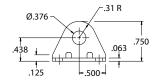




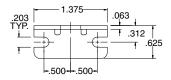
Nose Mounting Brackets

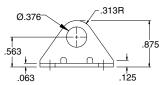
M117001 Single Acting 5/16" Bore



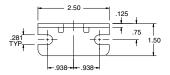


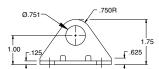
M117004 Single Acting 7/16" Bore



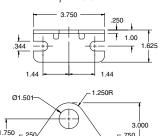


M117007 1-1/4" and 1-1/2" Bore

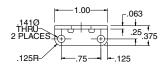


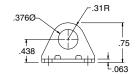


M117010 2-1/2" Bore

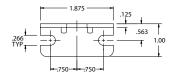


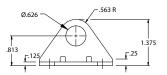
M117002 Double Acting 5/16" Bore



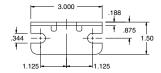


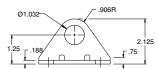
M117005 3/4", 7/8" and 1-1/16" Bore



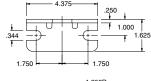


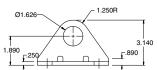
M117008 1-3/4" Bore



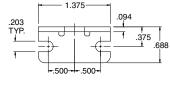


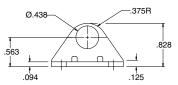
M117011 3" Bore



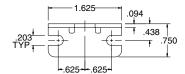


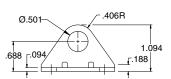
M117003 7/16" and 9/16" Bore





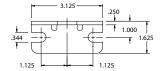
M117006 Single Acting 3/4" Bore

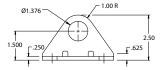




M117009

2" Bore

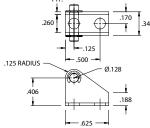






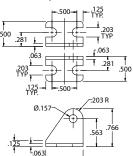
Pivot Mounting Brackets

M129001 5/16" Bore

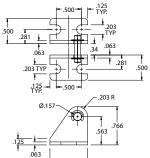


M029002

7/16" Bore

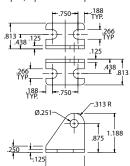


M129002 9/16" Bore



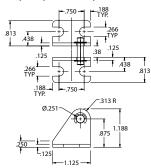
M029003

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



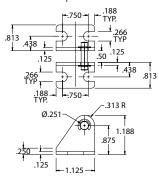
M129003

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



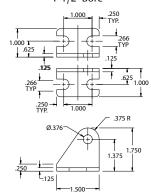
M229003

1-1/4" Bore



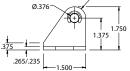
M029004

1-1/2" Bore



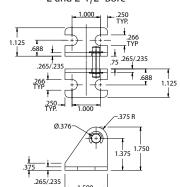
M129005 1-3/4" Bore

.625 .265/.235 1.125 .250 TYP. ~.375 R



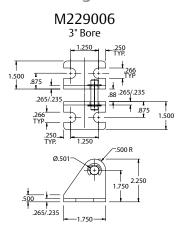
M229005

2 and 2-1/2" Bore





Pivot Mounting Brackets

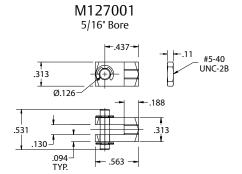


 * The "S" suffix indicates a 304 stainless steel part.

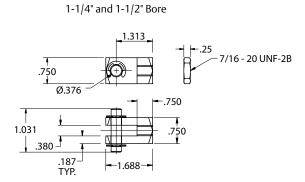


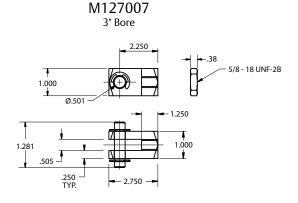


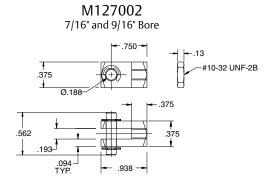
Rod Clevis

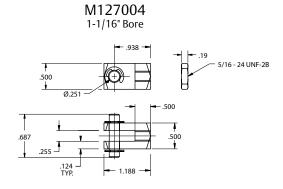


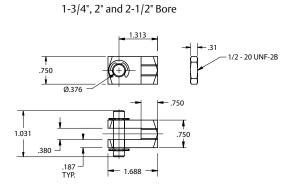
M127005











M127006

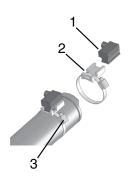
60



M Series World Application Detail

Profile Tube Detail

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



M Series World Switch

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

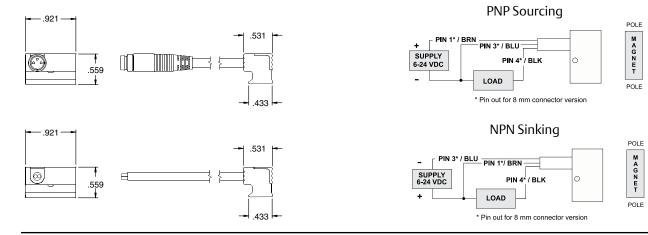
M Series Switch Rails (W, X, Y, Z)

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

M Series World Switch Hall Effect Part Numbers

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

Hall Effect Switch



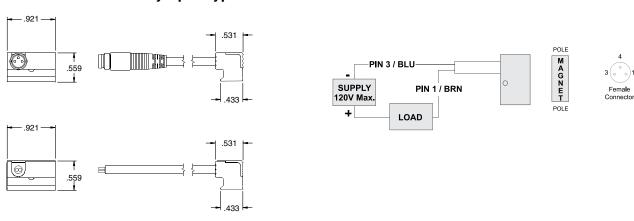




M Series World Switch Reed Switch Part Numbers

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

Reed Switch – Normally Open Type SR6



Non-Repairable Cylinders

M Series

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

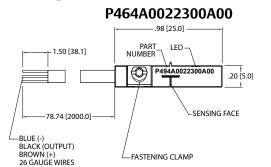


Sensor Description	Standard Cord Set	Quick Disconnect
Reed Switch	P494A0021300A00	P494A0021600A00
Hall PNP	P494A0022300A00	P494A0022600A00
Hall NPN	P494A0022400A00	P494A0022700A00

See page 58, 59, & 60 for sensor specifications

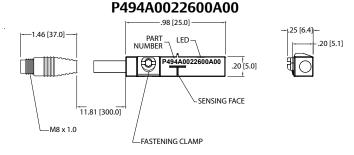


Sensing Part Numbers



.25 [6.4]

.20 [5.1]



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

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

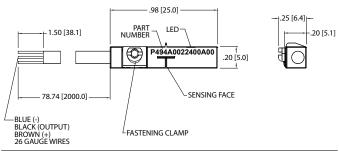
^{*}Switches are not designed for wet environments. Please see your distributor for additional information.

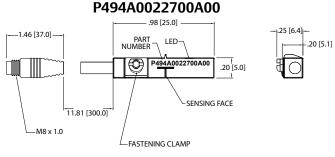




Sensing Part Numbers

P494A0022400A00





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

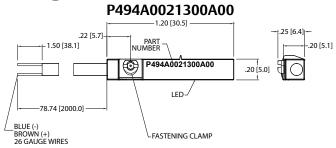
ELECTRICAL DESIGN	DC NDN						
OUTPUT	DC NPN						
	Normally Open						
OPERATING VOLTAGE	10-30 VDC						
CURRENT RATING	100 mA						
SHORT-CIRCUIT PROTECTION	Yes						
OVERLOAD PROTECTION	Yes						
REVERSE POLARITY PROTECTION	Yes						
VOLTAGE DROP	<2.5 V						
CURRENT CONSUMPTION	< 12 mA						
REPEATABILITY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

^{*}Switches are not designed for wet environments. Please see your distributor for additional information.

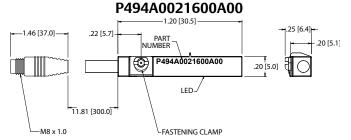




Sensing Part Numbers



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



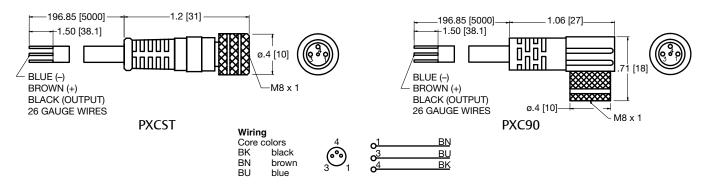
Mo X No	TABLEMING CEANIN					
ELECTRICAL DESIGN	AC/DC REED					
OUTPUT	Normally Open					
OPERATING VOLTAGE	*5-60 VDC/5-50 VAC					
CURRENT RATING	100 mA					
SHORT-CIRCUIT PROTECTION	No					
OVERLOAD PROTECTION	No					
REVERSE POLARITY PROTECTION	Yes					
VOLTAGE DROP	<5V					
REPEATABILITY	± .2mm	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

 $^{{}^* \}text{Switches are not designed for wet environments. Please see your distributor for additional information.} \\$





Quick Disconnect Cables



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

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