M Series
Round Line, Non-Repairable Cylinder Line

numatics

www.numatics.com
# M Series

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

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

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

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

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

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

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

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

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

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

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

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

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

Threadlocker® is a registered trademark to the Loctite Corporation.

### Standard Specifications:
- 303 stainless steel piston rods are standard
- 304 stainless steel cylinder tube
- Aluminum head and caps
- Maximum pressure rating is 250 psi air
- Twelve bore sizes – 5/16” – 3”
- Standard temperature -10°F to +165°F
- Single and double acting
- Double rods

### Optional Specifications:
- Magnetic pistons
- Adjustable cushions
- Corrosion resistant end caps
- Double rods
- High and low temperature seals
- Rod wipers
Standard M Series Mounts

**Single Acting**

- Single Acting Spring Return Nose Mount (S01)
- Single Acting Spring Return Non-Rotating Rear Pivot Mount (N02)
- Single Acting Spring Return Front Block Mount (S05)
- Single Acting Spring Extend Nose Mount (R01)
- Single Acting Spring Extend Rear Pivot Mount (R02)
- Single Acting Spring Return Non-Rotating Nose Mount (N01)

**Double Acting**

- Double Acting Nose Mount (D01)
- Double Acting Rear Pivot Mount (D02)
- Double Acting Through Rod Mount (D03)
- Double Acting Double Nose Mount (D04)
- Double Acting Front Block Mount (D05)
- Double Acting Trunnion Mount (D06)
- Double Acting Through Rod Hollow Rod Mount (D13)
- Double Acting Through Rod Hollow Adjustable Cushion Nose Mount (DG1)
- Double Acting Adjusting Cushion Rear Pivot Mount (DG2)
- Double Acting Corrosion Resistant Nose Mount (DG1)
- Double Acting Corrosion Resistant Rear Pivot Mount (DG2)
- Double Acting Corrosion Resistant Through Rod Mount (DC3)
- Double Acting Corrosion Resistant Nose Mount, 2” Bore, 1” Rod (DL1)
- Double Acting Rear Pivot Mount, 2” Bore, 1” Rod (DL2)

**Volume Chambers**

- Nose Mount Volume Chamber (V01)
- Rear Pivot Mount Volume Chamber (V02)

*For a complete offering a dimensional drawings by mounting type, see the comprehensive M Series catalog PDF via the following path: [www.numatics.com](http://www.numatics.com)
How to Order

Base Models

<table>
<thead>
<tr>
<th>Bore Size</th>
<th>D01 - 02</th>
<th>A - 01 - 1A01A</th>
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<td></td>
</tr>
<tr>
<td>0438 = 7/16&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0563 = 9/16&quot;</td>
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<td></td>
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<tr>
<td>0750 = 3/4&quot;</td>
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<td></td>
</tr>
<tr>
<td>0875 = 7/8&quot;</td>
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<td></td>
</tr>
<tr>
<td>1062 = 1-1/16&quot;</td>
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</tr>
<tr>
<td>1250 = 1-1/4&quot;</td>
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<td></td>
</tr>
<tr>
<td>1500 = 1-1/2&quot;</td>
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<td></td>
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<tr>
<td>1750 = 1-3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2000 = 2&quot;</td>
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<td></td>
</tr>
<tr>
<td>2500 = 2-1/2&quot;</td>
<td></td>
<td></td>
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<tr>
<td>3000 = 3&quot;</td>
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</table>

Mounting Style

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

Rod and/or Thread Extension

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

<table>
<thead>
<tr>
<th>1A</th>
<th>Rod Extension (must specify extension)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2A</td>
<td>Thread Extension (must specify extension)</td>
</tr>
<tr>
<td>RT</td>
<td>Rod and Thread Extension (must specify extension)</td>
</tr>
</tbody>
</table>

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

Options

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

See next page for a comprehensive list of options.

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

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

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

Fractional Inch Stroke

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

Full Inch Stroke

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

# How to Order

## Standard M Series Options

<table>
<thead>
<tr>
<th>Standard M Series Options</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>01 = Bumpers</td>
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</tr>
<tr>
<td>02 = FKM Seals</td>
<td></td>
</tr>
<tr>
<td>03 = Magnet</td>
<td></td>
</tr>
<tr>
<td>04 = Bumpers with Magnet</td>
<td></td>
</tr>
<tr>
<td>05 = Pivot Bushing</td>
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</tr>
<tr>
<td>06 = Pivot Bushing with Bumpers</td>
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<tr>
<td>07 = Pivot Bushing with FKM Seals</td>
<td></td>
</tr>
<tr>
<td>08 = Pivot Bushing with Magnet</td>
<td></td>
</tr>
<tr>
<td>09 = Pivot Bushing with Bumper and Magnet</td>
<td></td>
</tr>
<tr>
<td>20 = Port Rotated with No Options</td>
<td></td>
</tr>
<tr>
<td>30 = Rod Wiper with No Options</td>
<td></td>
</tr>
<tr>
<td>31 = Rod Wiper with Bumpers</td>
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</tr>
<tr>
<td>32* = Rod Wiper with FKM Seals</td>
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</tr>
<tr>
<td>33 = Rod Wiper with Magnet</td>
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<tr>
<td>34 = Rod Wiper with Bumpers and Magnet</td>
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<tr>
<td>35 = Rod Wiper with Pivot Bushing</td>
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<tr>
<td>36 = Rod Wiper with Bumpers and Pivot Bushing</td>
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<tr>
<td>37 = Rod Wiper with FKM Seals and Pivot Bushing</td>
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<tr>
<td>38 = Rod Wiper with Magnet and Pivot Bushing</td>
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<td>39 = Rod Wiper with Bumpers, Magnet and Pivot Bushing</td>
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</tr>
<tr>
<td>100 = Low Temp Seals</td>
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<tr>
<td>101 = Low Temp Seals and Bumpers</td>
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</tr>
<tr>
<td>103 = Low Temp Seals and Magnet</td>
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<tr>
<td>104 = Low Temp Seals, Bumpers and Magnet</td>
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<tr>
<td>105 = Low Temp Seals and Pivot Bushing</td>
<td></td>
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<tr>
<td>106 = Low Temp Seals, Bumpers and Pivot Bushing</td>
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</tr>
<tr>
<td>108 = Low Temp Seals, Magnet and Pivot Bushing</td>
<td></td>
</tr>
<tr>
<td>109 = Low Temp Seals, Bumpers, Magnet and Pivot Bushing</td>
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<tr>
<td>200 = PolyPak Rod Seal</td>
<td></td>
</tr>
<tr>
<td>300 = PolyPak Piston Seal</td>
<td></td>
</tr>
<tr>
<td>400 = PolyPak Piston and Rod Seal</td>
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</tr>
</tbody>
</table>

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

## Additional M Series Options

<table>
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<th>Additional M Series Options</th>
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<td>21 = Bumpers with Ports Rotated</td>
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<td>22 = FKM Seals with Ports Rotated</td>
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<tr>
<td>23 = Magnet with Ports Rotated</td>
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</tr>
<tr>
<td>24 = Bumpers with Magnet and Ports Rotated</td>
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<tr>
<td>25 = Pivot Bushing with Ports Rotated</td>
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<td>26 = Bumpers with Pivot Bushing and Ports Rotated</td>
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</tr>
<tr>
<td>28 = Magnet with Pivot Bushing and Ports Rotated</td>
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<tr>
<td>29 = Bumpers and Magnet with Pivot Bushing and Ports Rotated</td>
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<td>40 = Ports Rotated with Wiper</td>
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<td>45 = Pivot Bushing with Ports Rotated and Wiper</td>
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<tr>
<td>50 = Side Port</td>
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<td>51 = Bumpers and Side Port</td>
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<td>52 = FKM Seals and Side Port</td>
<td></td>
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<tr>
<td>53 = Magnet and Side Port</td>
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<tr>
<td>54 = Bumpers with Magnet and Side Port</td>
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</tr>
</tbody>
</table>

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

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

### 2000DG2-20H-03-RT02A01I
- 2000 = 2” Bore
- DG2 = Double Acting, Adjustable Cushion, Rear Pivot Mount
- 20 = 20” Stroke
- H = .4375 Fractional Stroke
- 03 = Magnet
- RT02A01I = 2” Rod Extension and 1-1/2” Thread Extension

## Length Adders
### 01 Option (Bumpers)

<table>
<thead>
<tr>
<th>Bore</th>
<th>Single Acting S01, S02, R01, R02 N01, N02</th>
<th>Double Acting D01, D02</th>
<th>Corrosion Resistant DC1, DC2</th>
<th>Double Acting D03</th>
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<tbody>
<tr>
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<td>N/A</td>
<td>N/A</td>
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<tr>
<td>0.438</td>
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<td>0.750</td>
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### 03 Option (Magnet)

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<th>Bore</th>
<th>Single Acting S01, S02, R01, R02 N01, N02</th>
<th>Double Acting D01, D02, D03</th>
<th>Corrosion Resistant DC1, DC2</th>
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### 04 Option (Bumper and Magnet)

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<th>Bore</th>
<th>Single Acting S01, S02, R01, R02 N01, N02</th>
<th>Double Acting D01, D02</th>
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## Nose Torque Specs
### D01 Mount (Aluminum Nose Thread)

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<th>Torque (Ft-Lbs)</th>
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### DC1 Mount (Delrin Nose Thread)

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<tr>
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Information subject to change without notice. For ordering information or regarding your local sales office visit www.numatics.com.
5/16" Bore Cylinder
Single Acting Spring Return – **0313S01-00A**
Front Nose Mount
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 Extend – **0313R01-00A**
Front Nose Mount
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 Return – **0313S02-00A**
Double Nose or Rear Pivot Mount
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 – **0313R02-00A**
Double Nose or Rear Pivot Mount
Maximum Stroke: 4"
Base Weight: .05 lbs., plus .03 lbs. per inch of stroke
*Optional Accessories:
• M117002 Mounting Bracket
• M127001 Rod Clevis

Information subject to change without notice. For ordering information or regarding your local sales office visit www.numatics.com.
5/16" Bore Cylinder

Double Acting – **0313D01-00A**
Front Nose Mount

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

Maximum Stroke: 4"

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

*Optional Accessories:
- M117002 Mounting Bracket
- M127001 Rod Clevis

---

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

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

Maximum Stroke: 4"

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

*Optional Accessories:
- M117002 Mounting Bracket
- M129001 Pivot Bracket
- M127001 Rod Clevis

---

5/16" Bore Cylinder Specifications

- (0.07) 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° - 350°F applications.

---

5/16" Bore Accessories

Nose Mounting Brackets

- **M117001**
- **M117002**

Pivot Mount Bracket

- **M129001**

Rod Clevis

- **M127001**

Mounting Nuts

- **M190001**
- **M190002**
7/16" Bore Cylinder
Single Acting Spring Return – **0438S01-00A**
Front Nose Mount
Maximum Stroke: 6"
Base Weight: .04 lbs., plus .04 lbs. per inch of stroke
*Optional Accessories:
  • M117004 Mounting Bracket
  • M127002 Rod Clevis

Single Acting Spring Return – **0438S02-00A**
Rear Pivot Mount
Maximum Stroke: 6"
Base Weight: .04 lbs., plus .04 lbs. per inch of stroke
*Optional Accessories:
  • M029002 Pivot Bracket
  • M127002 Rod Clevis

Single Acting Spring Extend – **0438R01-00A**
Front Nose Mount
Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3"
Maximum Stroke: 6"
Base Weight: .08 lbs., plus .03 lbs. per inch of stroke
*Optional Accessories:
  • M117003 Mounting Bracket
  • M127002 Rod Clevis

Single Acting Spring Extend – **0438R02-00A**
Rear Pivot Mount
Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3"
Maximum Stroke: 6"
Base Weight: .08 lbs., plus .03 lbs. per inch of stroke
*Optional Accessories:
  • M029002 Pivot Bracket
  • M127002 Rod Clevis
7/16" Bore Cylinder

Double Acting – 0438D01-00A

Front Nose Mount


Maximum Stroke: 12"

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

*Optional Accessories:
• M117003 Mounting Bracket
• M127002 Rod Clevis

Double Acting – 0438D02-00A

Rear Pivot Mount


Maximum Stroke: 12"

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

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

Double Acting Through Rod

Double Nose Mount – 0438D03-00A


Maximum Stroke: 12"

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

*Optional Accessories:
• M117003 Nose Mount Bracket
• M127002 Rod Clevis
• M190003 Mounting Nut
• M190011 Rod Nut

Single Acting Spring Return – 0438N01-00A

Front Nose Mount Non-Rotating


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


Maximum Stroke: 6"

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

*Optional Accessories:
• M029002 Pivot Bracket
• M127002 Rod Clevis
7/16" Bore Cylinder Specifications

- \((0.15) \times \) (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° - 350°F applications.

7/16" Bore Accessories

Nose Mounting Brackets

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<td><img src="image" alt="Nose Mounting Brackets" /></td>
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Pivot Mount Bracket

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Rod Clevis

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Mounting Nuts

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<tbody>
<tr>
<td><img src="image" alt="Mounting Nuts" /></td>
<td><img src="image" alt="Mounting Nuts" /></td>
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</tbody>
</table>
9/16" Bore Cylinder

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

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

Maximum Stroke: 6"

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

*Optional Accessories:
- M117003 Mounting Bracket
- M127002 Rod Clevis

---

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

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

Maximum Stroke: 6"

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

*Optional Accessories:
- M117003 Mounting Bracket
- M129002 Pivot Bracket
- M127002 Rod Clevis

---

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

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

Maximum Stroke: 6"

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

*Optional Accessories:
- M117003 Mounting Bracket
- M127002 Rod Clevis

---

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

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

Maximum Stroke: 6"

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

*Optional Accessories:
- M117003 Mounting Bracket
- M129002 Pivot Bracket
- M127002 Rod Clevis
**9/16" Bore Cylinder**

**Double Acting – 0563D01-00A**

Front Nose Mount

- Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"
- Maximum Stroke: 12"
- Base Weight: .09 lbs., plus .02 lbs. per inch of stroke

*Optional Accessories:
- M117003 Mounting Bracket
- M127002 Rod Clevis

**Double Acting – 0563D02-00A**

Double Nose or Rear Pivot Mount

- Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"
- Maximum Stroke: 12"
- Base Weight: .09 lbs., plus .02 lbs. per inch of stroke

*Optional Accessories:
- M117003 Mounting Bracket
- M129002 Pivot Bracket
- M127002 Rod Clevis

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

- Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"
- Maximum Stroke: 24"
- Base Weight: .16 lbs., plus .03 lbs. per inch of stroke

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

**Single Acting Spring Return – 0563N01-00A**

Front Nose Mount **Non-Rotating**

- Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"
- Maximum Stroke: 6"
- Base Weight: .06 lbs., plus .05 lbs. per inch of stroke

*Optional Accessories:
- M117003 Mounting Bracket
- M127002 Rod Clevis

**Single Acting Spring Return – 0563N02-00A**

Rear Pivot Mount **Non-Rotating**

- Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 2-1/2", 3", 4"
- Maximum Stroke: 6"
- Base Weight: .06 lbs., plus .05 lbs. per inch of stroke

*Optional Accessories:
- M117003 Mounting Bracket
- M129002 Pivot Bracket
- M127002 Rod Clevis
9/16" Bore Cylinder

Double Acting – 0563D03-00A
Through Rod

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

Maximum Stroke: 12"

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

*Optional Accessories:
- M117003 Mounting Bracket
- M127002 Rod Clevis

9/16" Bore Cylinder Specifications

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

9/16" Bore Accessories

Nose Mounting Bracket
- M117003

Pivot Mount Bracket
- M129002

Rod Clevis
- M127002

Mounting Nuts
- M190003
**3/4" Bore Cylinder**

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


Maximum Stroke: 6”

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

*Optional Accessories:
• M117006 Mounting Bracket
• M127003 Rod Clevis

---

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


Maximum Stroke: 6”

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

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

---

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


Maximum Stroke: 6”

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

*Optional Accessories:
• M117005 Mounting Bracket
• M127003 Rod Clevis

---

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


Maximum Stroke: 6”

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

*Optional Accessories:
• M029003 Pivot Bracket
• M127003 Rod Clevis
3/4" Bore Cylinder

Double Acting – 0750D01-00A
Front Nose Mount

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

Maximum Stroke: 12"

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

*Optional Accessories:
• M117005 Mounting Bracket
• M127003 Rod Clevis

Double Acting – 0750D02-00A
Rear Pivot Mount

Standard Stroke Lengths:

Maximum Stroke: 32"

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

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

Double Acting – 0750D04-00A
Double Nose or Rear Pivot Mount

Standard Stroke Lengths:

Maximum Stroke: 32"

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

*Optional Accessories:
• M117005 Mounting Bracket
• M129003 Pivot Bracket
• M127003 Rod Clevis

Single Acting Spring Return – 0750N01-00A
Front Nose Mount Non-Rotating

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

Maximum Stroke: 6"

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

*Optional Accessories:
• M117006 Mounting Bracket
• M127003 Rod Clevis
3/4" Bore Cylinder
Single Acting Spring Return – **0750N02-00A**
Rear Pivot Mount **Non-Rotating**

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

Maximum Stroke: 6"
Base Weight: .12 lbs., plus .08 lbs. per inch of stroke

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

---

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

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

Maximum Stroke: 12"
Base Weight: .37 lbs., plus .04 lbs. per inch of stroke

*Optional Accessories:
• M117005 Mounting Bracket
• M127003 Rod Clevis

---

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

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

Maximum Stroke: 12"
Base Weight: .22 lbs., plus .03 lbs. per inch of stroke

*Optional Accessories:
• M127003 Rod Clevis

---

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

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

Maximum Stroke: 12"
Base Weight: .29 lbs., plus .03 lbs. per inch of stroke

*Optional Accessories:
• M029003 Pivot Bracket
• M127003 Rod Clevis
3/4" Bore Cylinder Specifications

- \((0.4) \times \text{(Air Line Pressure)}\) = 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° - 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

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<td>M117006</td>
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Pivot Mount Bracket

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Rod Clevis

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Mounting Nuts

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


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


Maximum Stroke: 6"

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

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

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


Maximum Stroke: 6"

Base Weight: 0.20 lbs., plus .09 lbs. per inch of stroke

*Optional Accessories:
- M117005 Mounting Bracket
- M127003 Rod Clevis

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


Maximum Stroke: 6"

Base Weight: 0.20 lbs., plus .09 lbs. per inch of stroke

*Optional Accessories:
- M029003 Pivot Bracket
- M127003 Rod Clevis
**7/8" Bore Cylinder**

Double Acting – **0875D01-00A**

Front Nose Mount

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

Maximum Stroke: 32"

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

*Optional Accessories:
  - M117005 Mounting Bracket
  - M127003 Rod Clevis

---

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 – **0875D03-00A**

Through Rod Double Nose Mount

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

Maximum Stroke: 32"

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

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

---

Double Acting – **0875D04-00A**

Double Nose or Rear Pivot Mount

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

Maximum Stroke: 32"

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

*Optional Accessories:
  - M117005 Mounting Bracket
  - M129003 Pivot Bracket
  - M127003 Rod Clevis

---

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

Front Nose Mount **Non-Rotating**

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

Maximum Stroke: 6"

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

*Optional Accessories:
  - M117005 Mounting Bracket
  - M127003 Rod Clevis
7/8" Bore Cylinder

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

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

Maximum Stroke: 6"

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

*Optional Accessories:
- 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° - 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

Pivot Mount Bracket
M029003

Rod Clevis
M127003

Mounting Nuts
M190005
1-1/16" Bore Cylinder

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


Maximum Stroke: 6"
Base Weight: .23 lbs., plus .11 lbs. per inch of stroke
*Optional Accessories:
- M117005 Mounting Bracket
- M127004 Rod Clevis

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


Maximum Stroke: 6"
Base Weight: .24 lbs., plus .11 lbs. per inch of stroke
*Optional Accessories:
- M029003 Pivot Bracket
- M127004 Rod Clevis

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


Maximum Stroke: 6"
Base Weight: .24 lbs., plus .16 lbs. per inch of stroke
*Optional Accessories:
- M117005 Mounting Bracket
- M127004 Rod Clevis

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


Maximum Stroke: 6"
Base Weight: .22 lbs., plus .16 lbs. per inch of stroke
*Optional Accessories:
- M029003 Pivot Bracket
- M127004 Rod Clevis

For bumper option, add .125" to overall length.
1-1/16" Bore Cylinder

Double Acting – 1062D01-00A
Front Nose Mount

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

Maximum Stroke: 12"
Base Weight: 0.33 lbs., plus 0.05 lbs. per inch of stroke

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

Double Acting – 1062D02-00A
Rear Pivot Mount

Standard Stroke Lengths:

Maximum Stroke: 32"
Base Weight: 0.33 lbs., plus 0.05 lbs. per inch of stroke

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

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

Standard Stroke Lengths:

Maximum Stroke: 32"
Base Weight: 0.33 lbs., plus 0.05 lbs. per inch of stroke

*Optional Accessories:
• M117005 Mounting Bracket
• M129003 Pivot Bracket
• M127004 Rod Clevis

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

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

Maximum Stroke: 6"
Base Weight: 0.25 lbs., plus 0.12 lbs. per inch of stroke

*Optional Accessories:
• M117005 Mounting Bracket
• M127004 Rod Clevis
1-1/16" Bore Cylinder

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


Maximum Stroke: 6"

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

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

Double Acting – 1062D03-00A
Through Rod


Maximum Stroke: 12"

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

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

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


Maximum Stroke: 12"

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

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

Double Acting – 1062D05-00A
Front Block Mount


Maximum Stroke: 12"

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

*Optional Accessories:
  • M127004 Rod Clevis

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1-1/16" Bore Cylinder

Bore Double Acting – 1062D06-00A
Trunnion Mount

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

Maximum Stroke: 12"

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

*Optional Accessories:
- M029006 Pivot Bracket
- M127004 Rod Clevis

1-1/16" Bore Cylinder Specifications

• (0.9) 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° - 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 0.25" to overall length.

1-1/16" Bore Accessories

Nose Mounting Brackets

Pivot Mount Bracket

Rod Clevis

Mounting Nuts

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1-1/4" Bore Cylinder

Single Acting Spring Return – **1250S01-00A**

Front Nose Mount

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

Maximum Stroke: 6"

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

*Optional Accessories:

• M117007 Mounting Bracket
• M127005 Rod Clevis

---

Single Acting Spring Return – **1250S02-00A**

Double Nose or Rear Pivot Mount

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

Maximum Stroke: 6"

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

*Optional Accessories:

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

---

Single Acting Spring Extend – **1250R01-00A**

Front Nose Mount

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

Maximum Stroke: 6"

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

*Optional Accessories:

• M117007 Mounting Bracket
• M127005 Rod Clevis

---

Single Acting Spring Extend – **1250R02-00A**

Double Nose or Rear Pivot Mount

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

Maximum Stroke: 6"

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

*Optional Accessories:

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

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1-1/4" Bore Cylinder
Double Acting – 1250D01-00A
Front Nose Mount

Standard Stroke Lengths:

Maximum Stroke: 12"
Base Weight: .58 lbs., plus .08 lbs. per inch of stroke

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

Double Acting – 1250D02-00A
Double Nose or Rear Pivot Mount

Standard Stroke Lengths:

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

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

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

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

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

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

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

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

*Optional Accessories:
• M117007 Mounting Bracket
• M229003 Pivot Bracket
• M127005 Rod Clevis
1-1/4" Bore Cylinder
Double Acting – 1250D03-00A
Through Rod

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

Maximum Stroke: 12"

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

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

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

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

Maximum Stroke: 12"

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

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

1-1/4" Bore Cylinder Specifications

• (1.2) X (Air Line Pressure) = Approximate Force Exerted
• Enclosed spring force: 7.5 lbs. retracted, 15 lbs. extended.
• Mounting nuts are standard on all nose mount cylinders.
• FKM seals are optional on all cylinders for 200° - 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

Mounting Nuts
M190006

Pivot Mount Bracket
M229003

Rod Clevis
M127005

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**1-1/2” Bore Cylinder**

**Single Acting Spring Return – 1500S01-00A**

Front Nose Mount

Standard Stroke Lengths:

- 1/2”, 1”, 1-1/2”, 2”, 2-1/2”, 3”, 4”

Maximum Stroke: 6”

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

*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis

**Single Acting Spring Return – 1500S02-00A**

Rear Pivot Mount

Standard Stroke Lengths:

- 1/2”, 1”, 1-1/2”, 2”, 2-1/2”, 3”, 4”

Maximum Stroke: 6”

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

*Optional Accessories:

- M029004 Pivot Bracket
- M127005 Rod Clevis

**Single Acting Spring Extend – 1500R01-00A**

Front Nose Mount

Standard Stroke Lengths:

- 1/2”, 1”, 1-1/2”, 2”, 2-1/2”, 3”, 4”

Maximum Stroke: 6”

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

*Optional Accessories:

- M117007 Mounting Bracket
- M127005 Rod Clevis

**Single Acting Spring Extend – 1500R02-00A**

Rear Pivot Mount

Standard Stroke Lengths:

- 1/2”, 1”, 1-1/2”, 2”, 2-1/2”, 3”, 4”

Maximum Stroke: 6”

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

*Optional Accessories:

- M029004 Pivot Bracket
- M127005 Rod Clevis

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1-1/2" Bore Cylinder

Double Acting – 1500D01-00A
Front Nose Mount

Standard Stroke Lengths:

Maximum Stroke: 12"
Base Weight: .69 lbs., plus .08 lbs. per inch of stroke

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

Double Acting – 1500D02-00A
Rear Pivot Mount

Standard Stroke Lengths:

Maximum Stroke: 32"
Base Weight: .73 lbs., plus .08 lbs. per inch of stroke

*Optional Accessories:
  • M029004 Pivot Bracket
  • M127005 Rod Clevis

Double Acting – 1500D04-00A
Double Nose Mount

Standard Stroke Lengths:

Maximum Stroke: 32"
Base Weight: .82 lbs., plus .08 lbs. per inch of stroke

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

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

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

Maximum Stroke: 6"
Base Weight: .45 lbs., plus .22 lbs. per inch of stroke

*Optional Accessories:
  • M117007 Mounting Bracket
  • M127005 Rod Clevis
**M SERIES**

**1-1/2" Bore Cylinder**

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

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

Maximum Stroke: 6"

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

*Optional Accessories:
- M029004 Pivot Bracket
- M127005 Rod Clevis

---

**Double Acting – 1500D03-00A**

Through Rod

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

Maximum Stroke: 12"

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

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

---

**Double Acting – 1500DH3-00A**

Through Rod Hollow Rod

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

Maximum Stroke: 12"

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

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

---

**Double Acting – 1500D05-00A**

Front Block Mount

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

Maximum Stroke: 12"

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

*Optional Accessories:
- M127005 Rod Clevis
1-1/2" Bore Cylinder

Double Acting – 1500D06-00A

Trunnion Mount

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

Maximum Stroke: 12"

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

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

1-1/2" Bore Cylinder Specifications

- (1.7) X (Air Line Pressure) = Approximate Force Exerted
- Enclosed spring force: 7 lbs. retracted, 14 lbs. extended. 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° - 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

Pivot Mount Bracket

Rod Clevis

Mounting Nuts
**1-3/4" Bore Cylinder**

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

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

Maximum Stroke: 6"

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

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

**Single Acting Spring Return – 1750S02-00A**

Double Nose or Rear Pivot Mount

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

Maximum Stroke: 6"

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

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

**Single Acting Spring Extend – 1750R01-00A**

Front Nose Mount

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

Maximum Stroke: 6"

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

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

**Double Acting – 1750D01-00A**

Front Nose Mount

Standard Stroke Lengths:

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


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


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° - 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

Pivot Mount Bracket
M129005

Rod Clevis
M127006

Mounting Nuts
M190008

Information subject to change without notice. For ordering information or regarding your local sales office visit www.numatics.com.
2" Bore Cylinder

Single Acting Spring Return – 2000S01-00A
Front Nose Mount


Maximum Stroke: 4" Base Weight: 1.04 lbs., plus .43 lbs. per inch of stroke

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

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


Maximum Stroke: 4" Base Weight: 1.26 lbs., plus .43 lbs. per inch of stroke

*Optional Accessories:
• M117009 Mounting Bracket
• M229005 Pivot Bracket
• M127006 Rod Clevis

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


Maximum Stroke: 4" Base Weight: 1.24 lbs., plus .43 lbs. per inch of stroke

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

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


Maximum Stroke: 4" Base Weight: 1.46 lbs., plus .43 lbs. per inch of stroke

*Optional Accessories:
• M117009 Mounting Bracket
• M229005 Pivot Bracket
• M127006 Rod Clevis

For bumper option, add .125" to overall length.
**2” Bore Cylinder Specifications**

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

**2” Bore Cylinder**

**Double Acting – 2000D01-00A**

**Front Nose Mount**
- **Standard Stroke Lengths:** 1/2”, 1”, 1-1/2”, 2”, 2-1/2”, 3”, 4”, 5”, 6”, 7”, 8”
- **Maximum Stroke:** 12”
- **Base Weight:** 1.40 lbs., plus .15 lbs. per inch of stroke

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

**Double Acting – 2000D02-00A**

**Double Nose or Rear Pivot Mount**
- **Standard Stroke Lengths:** 1/2”, 1”, 1-1/2”, 2”, 2-1/2”, 3”, 4”, 5”, 6”, 7”, 8”, 9”, 10”, 11”, 12”
- **Maximum Stroke:** 32”
- **Base Weight:** 1.62 lbs., plus .15 lbs. per inch of stroke

*Optional Accessories:
- M117009 Mounting Bracket
- M229005 Pivot Bracket
- M127006 Rod Clevis

**Double Acting – 2000D03-00A**

**Through Rod**
- **Standard Stroke Lengths:** 1/2”, 1”, 1-1/2”, 2”, 2-1/2”, 3”, 4”, 5”, 6”
- **Maximum Stroke:** 12”
- **Base Weight:** 1.97 lbs., plus .24 lbs. per inch of stroke

*Optional Accessories:
- M117009 Mounting Bracket
- M127006 Rod Clevis
2" Bore Accessories

Nose Mounting Brackets

M117009

Pivot Mount Bracket

M229005

Rod Clevis

M127006

Mounting Nuts

M190009

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2-1/2" Bore Cylinder

Double Acting – 2500D01-00A
Front Nose Mount

Standard Stroke Lengths:

Maximum Stroke: 12"

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

*Optional Accessories:
• M127006 Rod Clevis

Double Acting – 2500D02-00A
Rear Pivot Mount

Standard Stroke Lengths:

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° - 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

Mounting Nuts

Pivot Mount Bracket

Rod Clevis
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

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° - 350°F applications.
• Magnetic piston optional on all 3" bore cylinders.
• Bumper option on all 3" bore cylinders adds .063" to overall length.

3" Bore Accessories

Nose Mounting Brackets

Pivot Mount Bracket

Rod Clevis

Mounting Nuts
Adjustable Cushion Cylinders

3/4" Bore Double Acting – 0750DG1-00A
Front Nose Mount with Cushions

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

Maximum Stroke: 12"
Base Weight: .24 lbs., plus .03 lbs. per inch of stroke

*Optional Accessories:
• M117005 Mounting Bracket
• M127003 Rod Clevis

3/4" Bore Double Acting – 0750DG2-00A
Rear Pivot Mount with Cushions

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

Maximum Stroke: 12"
Base Weight: .29 lbs., plus .03 lbs. per inch of stroke

*Optional Accessories:
• M117005 Mounting Bracket
• M127003 Rod Clevis

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

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

Maximum Stroke: 12"
Base Weight: .38 lbs., plus .04 lbs. per inch of stroke

*Optional Accessories:
• M117005 Mounting Bracket
• M127003 Rod Clevis

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

Standard Stroke Lengths:

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:

Maximum Stroke: 12"
Base Weight: .77 lbs., plus .09 lbs. per inch of stroke
*Optional Accessories:
• M117007 Mounting Bracket
• M127005 Rod Clevis

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

Standard Stroke Lengths:
Maximum Stroke: 32"
Base Weight: .77 lbs., plus .09 lbs. per inch of stroke
*Optional Accessories:
• M029004 Pivot Bracket
• M127005 Rod Clevis

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

Standard Stroke Lengths:
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"
Maximum Stroke: 12"
Base Weight: 1.64 lbs., plus .15 lbs. per inch of stroke
*Optional Accessories:
• M117009 Mounting Bracket
• M127006 Rod Clevis

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

Standard Stroke Lengths:
1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"
Maximum Stroke: 32"
Base Weight: 1.68 lbs., plus .15 lbs. per inch of stroke
*Optional Accessories:
• M117009 Mounting Bracket
• M229005 Pivot Bracket
• M127006 Rod Clevis

* See page 51-58 for accessory details.
Volume Chambers

[Diagram of Volume Chamber]

Volume Chamber Specifications

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

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<th>C</th>
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<td>1.767</td>
<td>1&quot; Increments to 16&quot;</td>
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<td>3.141</td>
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How To Order

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

- Style
  - V = Volume Chamber

- Mount
  - 01 = Nose Mount
  - 02 = Pivot Mount

Fractional Inches of Length

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

Full Inches of Length

- 00 = 0"
- 01 = 1"
- 02 = 2"
- 03 = 3"
- 32 = 32" (maximum)
Multi-Position Cylinders

Step 1
The total stroke from full retract to the intermediate position is achieved by pressurizing port 4.

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

Step 3
The total stroke from full extend to the intermediate position is achieved by pressurizing ports 1 and 4 with port 2 vented.

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

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

How To Order

1500 D1 - 02A - 01A - 00

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

Mount
D1 = Nose Mount

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

Rear Stroke
Full Inches
00 = 0"
01 = 1"
02 = 2"

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

Fractional Inches
A = 0"
I = 1/2"

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

Example: 1500D1-02A-01A-00
When port 4 is pressurized, the cylinder will stroke 1". When port 2 is pressurized, the cylinder will stroke an additional 1" for a total stroke of 2".
Multi-Position Cylinders

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

Maximum Stroke: 24"

*Optional Accessories:
• M117005 Mounting Bracket

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

Maximum Stroke: 24"

*Optional Accessories:
• M117005 Mounting Bracket

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

Maximum Stroke: 24"

*Optional Accessories:
• M117007 Mounting Bracket

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

Maximum Stroke: 24"

*Optional Accessories:
• M117009 Mounting Bracket

* See page 51-58 for accessory details.
Single Acting with Magnet Cylinders

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

How To Order

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<th>Options</th>
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<td>0563 = 9/16”</td>
<td>03 = Magnetic Piston</td>
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<td>0750 = 3/4”</td>
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<td>1062 = 1-1/16”</td>
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<td>1500 = 1-1/2”</td>
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<td>2000 = 2”</td>
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<tr>
<th>Mount</th>
<th>Rear Stroke (full inches)</th>
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<td>S01 = Front Nose Mount</td>
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<td>S02 = Double Nose or Rear Pivot Mount</td>
<td>01 = 1”</td>
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<td></td>
<td>02 = 2”</td>
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<td></td>
<td>06 = 6” (maximum)</td>
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<td>A = 0”</td>
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<tr>
<td>I = 1/2”</td>
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</table>
**Single Acting with Magnet Cylinders**

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

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

Maximum Stroke: 6"

*Optional Accessories:
- M117003 Mounting Bracket
- M127002 Rod Clevis

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

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

Maximum Stroke: 6"

*Optional Accessories:
- M117003 Mounting Bracket
- M129002 Pivot Bracket
- M127002 Rod Clevis

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

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

Maximum Stroke: 6"

*Optional Accessories:
- M117006 Mounting Bracket
- M127003 Rod Clevis

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

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

Maximum Stroke: 6"

*Optional Accessories:
- M029003 Pivot Bracket
- M127002 Rod Clevis

* See page 51-58 for accessory details.
Single Acting with Magnet Cylinders
1-1/16" Bore Single Acting Spring Return – 1062S01-00A-03
Front Nose Mount with Magnetic Band


Maximum Stroke: 6*

*Optional Accessories:
• M117003 Mounting Bracket
• M127002 Rod Clevis

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


Maximum Stroke: 6*

*Optional Accessories:
• M117003 Mounting Bracket
• M129002 Pivot Bracket
• M127002 Rod Clevis

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


Maximum Stroke: 6*

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

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


Maximum Stroke: 6*

*Optional Accessories:
• M029004 Pivot Bracket
• M127005 Rod Clevis

* See page 51-58 for accessory details.
Single Acting with Magnet Cylinders

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

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

Maximum Stroke: 4"

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

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

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

Maximum Stroke: 4"

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

* See page 51-58 for accessory details.
Hole Punch Cylinders

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

Our punches may be used with any of our M Series cylinders that have 1/4-28 UNF-2A male threads. For your convenience, configured three standard Hole Punch Cylinders designed specifically for hole punch applications. The standard Hole Punch Cylinder is 3/4" bore with 1" stroke, nose mount, spring return, stainless steel rod, 1/8" NPT port, and 1/2" of thread extension to allow for adjustment of the punch. It also includes elastomer bumpers to ensure quiet operation. The cylinder is rated for 250 psi. We offer three standard Hole Punch Cylinder types: spring return, spring return with non-rotating rod, and spring return with hollow rod version. The standard cylinder is offered with a 1" stroke, i.e., M12263-01A. Please note that 1/2" stroke Hole Punch Cylinders are available as standard i.e., 1/2" stroke = M12263-00I. However, strokes greater than 1" are available upon request. Mounting nuts come standard with all Hole Punch Cylinders. Note: For air ejector use, a hollow rod cylinder is required.

3/4" Bore Single Acting Spring Return – M12263-00I
1/2" Stroke
• Bumpers
• 1/2" Thread Extension

3/4" Bore Single Acting Spring Return – M12263-01A
1" Stroke
• Bumpers
• 1/2" Thread Extension

3/4" Bore Single Acting Spring Return – M12264-00I
1/2" Stroke – Non-Rotating Rod
• Bumpers
• 1/2" Thread Extension

3/4" Bore Single Acting Spring Return – M12264-01A
1" Stroke – Non-Rotating Rod
• Bumpers
• 1/2" Thread Extension

3/4" Bore Single Acting Spring Return – M12265-00I
1/2" Stroke – Hollow Rod
• Bumpers
• 1/2" Thread Extension

3/4" Bore Single Acting Spring Return – M12265-01A
1" Stroke – Hollow Rod
• Bumpers
• 1/2" Thread Extension
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

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.

Cylinder and Punch Assemblies
### Mounting Nuts

#### Mounting Nuts Included on Cylinder

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<tr>
<th>Bore</th>
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#### Diagrams of Mounting Nuts

- M190001: 1/4-28 UNF-2B
- M190002: 3/8-24 UNF-2B
- M190003: 7/16-20 UNF-2B
- M190004: 1/2-20 UNF-2B
- M190005: 5/8-18 UNF-2B
- M190006: 3/4-16 UNF-2B
- M190007: 7/8 UNF-2B
- M190008: 1-1/4-12 UNF-2B
- M190009: 1 1/4-12 UNF-2B
- M190010: 1 1/2-12 UNF-2B
- M190011: 1-14 UNF-2B
- M190012: 1 3/8-12 UNF-2B
- M190013: 1 1/2-12 UNF-2B

Information subject to change without notice. For ordering information or regarding your local sales office visit www.numatics.com.
Nose Mounting Brackets

M117001
Single Acting 5/16” Bore

M117002
Double Acting 5/16” Bore

M117003
7/16” and 9/16” Bore

M117004
Single Acting 7/16” Bore

M117005
3/4”, 7/8” and 1-1/16” Bore

M117006
Single Acting 3/4” Bore

M117007
1-1/4” and 1-1/2” Bore

M117008
1-3/4” Bore

M117009
2” Bore

M117010
2-1/2” Bore

M117011
3” Bore
Rod Clevis

M127001
5/16" Bore

M127002
7/16" and 9/16" Bore

M127003
3/4" and 7/16" Bore

M127004
1-1/16" Bore

M127005
1-1/4" and 1-1/2" Bore

M127006
1-3/4", 2" and 2-1/2" Bore

M127007
3" Bore
**M Series World application Detail**

**Profile Tube Detail**
1. World Switch
2. Band Clamp Kit
3. Adjustment Screw

### M series World Switch

<table>
<thead>
<tr>
<th>Cylinders</th>
<th>Bore</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>M series Bracket Kit</td>
<td>9/16”</td>
<td>SBK056A</td>
</tr>
<tr>
<td>M series Bracket Kit</td>
<td>3/4”</td>
<td>SBK075</td>
</tr>
<tr>
<td>M series Bracket Kit</td>
<td>7/8”-1 1/4”</td>
<td>SBK106</td>
</tr>
<tr>
<td>M series Bracket Kit</td>
<td>1 1/2”</td>
<td>SBK150</td>
</tr>
<tr>
<td>M series Bracket Kit</td>
<td>1 3/4”-2”</td>
<td>SBK200</td>
</tr>
<tr>
<td>M series Bracket Kit</td>
<td>2.5”</td>
<td>SBK250A</td>
</tr>
<tr>
<td>M series Bracket Kit</td>
<td>3”</td>
<td>SBK300A</td>
</tr>
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### M series Switch Rails (W,X,Y,Z)

<table>
<thead>
<tr>
<th>Cylinders</th>
<th>Bore</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>M series</td>
<td>All</td>
<td>Direct Fit w/included adapter</td>
</tr>
</tbody>
</table>

### M series World Switch Hall Effect Part Numbers

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

### Hall Effect Switch

**PNP Sourcing**

* Pin out for 8 mm connector version

**NPN Sinking**

* Pin out for 8 mm connector version
M Series World Switch Reed Switch Part Numbers

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

Reed Switch - Normally Open Type SR6

Non-Repairable Cylinders

<table>
<thead>
<tr>
<th>Bore</th>
<th>Bracket P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/16&quot;</td>
<td>N199-1054</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>N199-1055</td>
</tr>
<tr>
<td>7/8&quot;</td>
<td>N199-1055</td>
</tr>
<tr>
<td>1 1/16&quot;</td>
<td>N199-1056</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>N199-1056</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>N199-1057</td>
</tr>
<tr>
<td>1 3/4&quot;</td>
<td>N199-1058</td>
</tr>
<tr>
<td>2&quot;</td>
<td>N199-1058</td>
</tr>
<tr>
<td>2 1/2&quot;</td>
<td>N199-1059</td>
</tr>
<tr>
<td>3&quot;</td>
<td>N199-1060</td>
</tr>
</tbody>
</table>

Sensor Description | Standard Cord Set | Quick Disconnect |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Reed Switch</td>
<td>REED-FL2-00</td>
<td>REED-QDS-M8U</td>
</tr>
<tr>
<td>Hall PNP</td>
<td>PNP-FL2-00-U</td>
<td>PNP-QDS-M8-U</td>
</tr>
<tr>
<td>Hall NPN</td>
<td>NPN-FL2-00-U</td>
<td>NPN-QDS-M8-U</td>
</tr>
</tbody>
</table>

See page 58, 59, & 60 for sensor specifications.
### Sensing Part Numbers

**PNP-FL2-00-U**
- **98 (25.0)**
- **25 (6.4)**
- **20 (5.0)**

**PNP-QDS-M8-U**
- **98 (25.0)**
- **25 (6.4)**
- **20 (5.0)**

<table>
<thead>
<tr>
<th>ELECTRICAL DESIGN</th>
<th>DC PNP</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTPUT</td>
<td>Normally Open</td>
</tr>
<tr>
<td>OPERATING VOLTAGE</td>
<td>10-30 VDC</td>
</tr>
<tr>
<td>CURRENT RATING</td>
<td>100 mA</td>
</tr>
<tr>
<td>SHORT-CIRCUIT PROTECTION</td>
<td>Yes</td>
</tr>
<tr>
<td>OVERLOAD PROTECTION</td>
<td>Yes</td>
</tr>
<tr>
<td>REVERSE POLARITY PROTECTION</td>
<td>Yes</td>
</tr>
<tr>
<td>VOLTAGE DROP</td>
<td>&lt; 2.5 V</td>
</tr>
<tr>
<td>CURRENT CONSUMPTION</td>
<td>&lt; 12 mA</td>
</tr>
<tr>
<td>REPEATABILITY</td>
<td>&lt; .2mm</td>
</tr>
<tr>
<td>POWER-ON DELAY TIME</td>
<td>&lt; 30 ms</td>
</tr>
<tr>
<td>SWITCH FREQUENCY</td>
<td>&gt; 3000 Hz</td>
</tr>
<tr>
<td>AMBIENT TEMPERATURE</td>
<td>-25ºC to 85ºC</td>
</tr>
<tr>
<td>PROTECTION</td>
<td>IP 67, III</td>
</tr>
<tr>
<td>HYSTERESIS</td>
<td>1.0mm</td>
</tr>
<tr>
<td>MAGNETIC SENSITIVITY</td>
<td>2.0 mT</td>
</tr>
<tr>
<td>TRAVEL SPEED</td>
<td>&gt; 10 m/s</td>
</tr>
<tr>
<td>HOUSING MATERIAL</td>
<td>PA (Polyamide) Black; Fastening Clamp: Stainless Steel</td>
</tr>
<tr>
<td>FUNCTION DISPLAY Switching STATUS</td>
<td>Yellow LED</td>
</tr>
<tr>
<td>CONNECTION</td>
<td>Flying Leads, Pur Cable (2m Long, 3 x 26 Gauge Wire)</td>
</tr>
<tr>
<td>REMARKS</td>
<td>Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5 cULus - Class 2 Source Required</td>
</tr>
<tr>
<td>ACCESSORIES</td>
<td>Rubber Placohold, Cable Clip, and Cut Sheet To Be Provided with Every Switch</td>
</tr>
<tr>
<td>AGENCY APPROVALS</td>
<td>CE, ULC, RoHS</td>
</tr>
</tbody>
</table>

**PNP-QDS-M8-U**
- **98 (25.0)**
- **25 (6.4)**
- **20 (5.0)**

<table>
<thead>
<tr>
<th>ELECTRICAL DESIGN</th>
<th>DC PNP</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTPUT</td>
<td>Normally Open</td>
</tr>
<tr>
<td>OPERATING VOLTAGE</td>
<td>10-30 VDC</td>
</tr>
<tr>
<td>CURRENT RATING</td>
<td>100 mA</td>
</tr>
<tr>
<td>SHORT-CIRCUIT PROTECTION</td>
<td>Yes</td>
</tr>
<tr>
<td>OVERLOAD PROTECTION</td>
<td>Yes</td>
</tr>
<tr>
<td>REVERSE POLARITY PROTECTION</td>
<td>Yes</td>
</tr>
<tr>
<td>VOLTAGE DROP</td>
<td>&lt; 2.5 V</td>
</tr>
<tr>
<td>CURRENT CONSUMPTION</td>
<td>&lt; 12 mA</td>
</tr>
<tr>
<td>REPEATABILITY</td>
<td>&lt; .2mm</td>
</tr>
<tr>
<td>POWER-ON DELAY TIME</td>
<td>&lt; 30 ms</td>
</tr>
<tr>
<td>SWITCH FREQUENCY</td>
<td>&gt; 3000 Hz</td>
</tr>
<tr>
<td>AMBIENT TEMPERATURE</td>
<td>-25ºC to 85ºC</td>
</tr>
<tr>
<td>PROTECTION</td>
<td>IP 67, III</td>
</tr>
<tr>
<td>HYSTERESIS</td>
<td>1.0mm</td>
</tr>
<tr>
<td>MAGNETIC SENSITIVITY</td>
<td>2.0 mT</td>
</tr>
<tr>
<td>TRAVEL SPEED</td>
<td>&gt; 10 m/s</td>
</tr>
<tr>
<td>HOUSING MATERIAL</td>
<td>PA (Polyamide) Black; Fastening Clamp: Stainless Steel</td>
</tr>
<tr>
<td>FUNCTION DISPLAY Switching STATUS</td>
<td>Yellow LED</td>
</tr>
<tr>
<td>CONNECTION</td>
<td>M8 Connector (Snap Fit), Pur Cable (.3 m)</td>
</tr>
<tr>
<td>REMARKS</td>
<td>Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5 cULus - Class 2 Source Required</td>
</tr>
<tr>
<td>ACCESSORIES</td>
<td>Rubber Placohold, Cable Clip, and Cut Sheet To Be Provided with Every Switch</td>
</tr>
<tr>
<td>AGENCY APPROVALS</td>
<td>CE, ULC, RoHS</td>
</tr>
</tbody>
</table>

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

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**Sensing Part Numbers**

**NPN-FL2-00-U**

- **PART NUMBER**: 08 [25.0]
- **SENSING FACE**: 78.74 [2000.0]
- **FASTENING CLAMP**: 1.50 [38.1] BLACK (OUTPUT)
- **BLUE (-)** BLACK (OUTPUT)

**NPN-QDS-M8-U**

- **PART NUMBER**: 1.46 [37.0]
- **SENSING FACE**: 81 [300.0]
- **FASTENING CLAMP**: M8 x 1.0

<table>
<thead>
<tr>
<th><strong>ELECTRICAL DESIGN</strong></th>
<th>DC NPN</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OUTPUT</strong></td>
<td>Normally Open</td>
</tr>
<tr>
<td><strong>OPERATING VOLTAGE</strong></td>
<td>10-30 VDC</td>
</tr>
<tr>
<td><strong>CURRENT RATING</strong></td>
<td>100 mA</td>
</tr>
<tr>
<td><strong>SHORT-CIRCUIT PROTECTION</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>OVERLOAD PROTECTION</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>REVERSE POLARITY PROTECTION</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>VOLTAGE DROP</strong></td>
<td>&lt; 2.5 V</td>
</tr>
<tr>
<td><strong>CURRENT CONSUMPTION</strong></td>
<td>&lt; 12 mA</td>
</tr>
<tr>
<td><strong>REPEATABILITY</strong></td>
<td>&lt; .2mm</td>
</tr>
<tr>
<td><strong>POWER-ON DELAY TIME</strong></td>
<td>&lt; 30 ms</td>
</tr>
<tr>
<td><strong>SWITCH FREQUENCY</strong></td>
<td>&gt; 3000 Hz</td>
</tr>
<tr>
<td><strong>AMBIENT TEMPERATURE</strong></td>
<td>-25°C to 85°C</td>
</tr>
<tr>
<td><strong>PROTECTION</strong></td>
<td>IP 67, III</td>
</tr>
<tr>
<td><strong>HYSTERESIS</strong></td>
<td>1.0mm</td>
</tr>
<tr>
<td><strong>MAGNETIC SENSITIVITY</strong></td>
<td>2.0 mT</td>
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<tr>
<td><strong>TRAVEL SPEED</strong></td>
<td>&gt; 10 m/s</td>
</tr>
<tr>
<td><strong>HOUSING MATERIAL</strong></td>
<td>PA (Polyamide) Black; Fastening Clamp: Stainless Steel</td>
</tr>
<tr>
<td><strong>FUNCTION DISPLAY</strong></td>
<td>Yellow LED</td>
</tr>
<tr>
<td><strong>SWITCHING STATUS</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>CONNECTION</strong></td>
<td>Flying Leads, Pur Cable (2m Long, 3 x26 Gauge Wire)</td>
</tr>
<tr>
<td><strong>REMARKS</strong></td>
<td>Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5 cULus - Class 2 Source Required</td>
</tr>
<tr>
<td><strong>ACCESSORIES</strong></td>
<td>Rubber Placehold, Cable Clip, and Cut Sheet To Be Provided with Every Switch</td>
</tr>
<tr>
<td><strong>AGENCY APPROVALS</strong></td>
<td>CE cULus RoHS</td>
</tr>
</tbody>
</table>

**NPN-QDS-M8-U**

- **PART NUMBER**: 98 [25.0]
- **SENSING FACE**: 25 [6.0] BLUE (-)
- **WHITE (+)** BLACK (OUTPUT)

- **PART NUMBER**: 20 [5.1]
- **SENSING FACE**: 80 [300.0] BLUE (-)
- **WHITE (+)** BLACK (OUTPUT)

<table>
<thead>
<tr>
<th><strong>ELECTRICAL DESIGN</strong></th>
<th>DC NPN</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OUTPUT</strong></td>
<td>Normally Open</td>
</tr>
<tr>
<td><strong>OPERATING VOLTAGE</strong></td>
<td>10-30 VDC</td>
</tr>
<tr>
<td><strong>CURRENT RATING</strong></td>
<td>100 mA</td>
</tr>
<tr>
<td><strong>SHORT-CIRCUIT PROTECTION</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>OVERLOAD PROTECTION</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>REVERSE POLARITY PROTECTION</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>VOLTAGE DROP</strong></td>
<td>&lt; 2.5 V</td>
</tr>
<tr>
<td><strong>CURRENT CONSUMPTION</strong></td>
<td>&lt; 12 mA</td>
</tr>
<tr>
<td><strong>REPEATABILITY</strong></td>
<td>&lt; .2mm</td>
</tr>
<tr>
<td><strong>POWER-ON DELAY TIME</strong></td>
<td>&lt; 30 ms</td>
</tr>
<tr>
<td><strong>SWITCH FREQUENCY</strong></td>
<td>&gt; 3000 Hz</td>
</tr>
<tr>
<td><strong>AMBIENT TEMPERATURE</strong></td>
<td>-25°C to 85°C</td>
</tr>
<tr>
<td><strong>PROTECTION</strong></td>
<td>IP 67, III</td>
</tr>
<tr>
<td><strong>HYSTERESIS</strong></td>
<td>1.0mm</td>
</tr>
<tr>
<td><strong>MAGNETIC SENSITIVITY</strong></td>
<td>2.0 mT</td>
</tr>
<tr>
<td><strong>TRAVEL SPEED</strong></td>
<td>&gt; 10 m/s</td>
</tr>
<tr>
<td><strong>HOUSING MATERIAL</strong></td>
<td>PA (Polyamide) Black; Fastening Clamp: Stainless Steel</td>
</tr>
<tr>
<td><strong>FUNCTION DISPLAY</strong></td>
<td>Yellow LED</td>
</tr>
<tr>
<td><strong>SWITCHING STATUS</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>CONNECTION</strong></td>
<td>M8 Connector (Snap Fit) , Pur Cable (.3 m)</td>
</tr>
<tr>
<td><strong>REMARKS</strong></td>
<td>Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5 cULus - Class 2 Source Required</td>
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<tr>
<td><strong>ACCESSORIES</strong></td>
<td>Rubber Placehold, Cable Clip, and Cut Sheet To Be Provided with Every Switch</td>
</tr>
<tr>
<td><strong>AGENCY APPROVALS</strong></td>
<td>CE cULus RoHS</td>
</tr>
</tbody>
</table>

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## Sensing Part Numbers

### REED-FL2-00

- **PART NUMBER:** P494A0021300A00
- **PART NUMBER:** 25 [6.4]
- **PART NUMBER:** 20 [5.1]

### REED-QDS-M8U

- **PART NUMBER:** P494A0021600A00
- **PART NUMBER:** 25 [6.4]
- **PART NUMBER:** 20 [5.1]

### ELECTRICAL DESIGN

<table>
<thead>
<tr>
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<th>AC/DC REED</th>
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</thead>
<tbody>
<tr>
<td>OUTPUT</td>
<td>Normally Open</td>
</tr>
<tr>
<td>OPERATING VOLTAGE</td>
<td>5-120 VAC/DC</td>
</tr>
<tr>
<td>CURRENT RATING</td>
<td>100 mA*</td>
</tr>
<tr>
<td>SHORT-CIRCUIT PROTECTION</td>
<td>No</td>
</tr>
<tr>
<td>OVERLOAD PROTECTION</td>
<td>No</td>
</tr>
<tr>
<td>REVERSE POLARITY PROTECTION</td>
<td>Yes</td>
</tr>
<tr>
<td>VOLTAGE DROP</td>
<td>&lt; 5 V</td>
</tr>
<tr>
<td>REPEATABILITY</td>
<td>± .2mm</td>
</tr>
<tr>
<td>MAKETIME INCLUDING BOUNCE</td>
<td>&lt; .6 ms</td>
</tr>
<tr>
<td>BREAKTIME</td>
<td>&lt; .1 ms</td>
</tr>
<tr>
<td>SWITCHING POWER (MAX)</td>
<td>5 W</td>
</tr>
<tr>
<td>SWITCH FREQUENCY</td>
<td>1000 Hz</td>
</tr>
<tr>
<td>AMBIENT TEMPERATURE</td>
<td>-25°C to 70°C</td>
</tr>
<tr>
<td>PROTECTION</td>
<td>IP 67, II</td>
</tr>
<tr>
<td>HYSTERESIS</td>
<td>.9mm</td>
</tr>
<tr>
<td>HOUSING MATERIAL</td>
<td>PA (Polyamide) Black; Fastening Clamp: Stainless Steel</td>
</tr>
<tr>
<td>FUNCTION DISPLAY</td>
<td>Yellow LED</td>
</tr>
<tr>
<td>SWITCHING STATUS</td>
<td></td>
</tr>
<tr>
<td>CONNECTION</td>
<td>Flying Leads, Pur Cable (2m Long, 2 x26 Gauge Wire)</td>
</tr>
<tr>
<td>REMARKS</td>
<td>*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</td>
</tr>
<tr>
<td>ACCESSORIES</td>
<td>Rubber Placehold, Cable Clip, and Cut Sheet To Be Provided with Every Switch</td>
</tr>
<tr>
<td>AGENCY APPROVALS</td>
<td>CE RoHS</td>
</tr>
</tbody>
</table>

### ELECTRICAL DESIGN

<table>
<thead>
<tr>
<th></th>
<th>AC/DC REED</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTPUT</td>
<td>Normally Open</td>
</tr>
<tr>
<td>OPERATING VOLTAGE</td>
<td>5-60 VDC / 5-50 VAC</td>
</tr>
<tr>
<td>CURRENT RATING</td>
<td>100 mA</td>
</tr>
<tr>
<td>SHORT-CIRCUIT PROTECTION</td>
<td>No</td>
</tr>
<tr>
<td>OVERLOAD PROTECTION</td>
<td>No</td>
</tr>
<tr>
<td>REVERSE POLARITY PROTECTION</td>
<td>Yes</td>
</tr>
<tr>
<td>VOLTAGE DROP</td>
<td>&lt; 5 V</td>
</tr>
<tr>
<td>REPEATABILITY</td>
<td>± .2mm</td>
</tr>
<tr>
<td>MAKETIME INCLUDING BOUNCE</td>
<td>&lt; .6 ms</td>
</tr>
<tr>
<td>BREAKTIME</td>
<td>&lt; .1 ms</td>
</tr>
<tr>
<td>SWITCHING POWER (MAX)</td>
<td>5 W</td>
</tr>
<tr>
<td>SWITCH FREQUENCY</td>
<td>1000 Hz</td>
</tr>
<tr>
<td>AMBIENT TEMPERATURE</td>
<td>-25°C to 70°C</td>
</tr>
<tr>
<td>PROTECTION</td>
<td>IP 67, II</td>
</tr>
<tr>
<td>HYSTERESIS</td>
<td>.9mm</td>
</tr>
<tr>
<td>HOUSING MATERIAL</td>
<td>PA (Polyamide) Black; Fastening Clamp: Stainless Steel</td>
</tr>
<tr>
<td>FUNCTION DISPLAY DISPLAY</td>
<td>Yellow LED</td>
</tr>
<tr>
<td>SWITCHING STATUS</td>
<td></td>
</tr>
<tr>
<td>CONNECTION</td>
<td>M8 Connector (Snap Fit), Pur Cable (.3m)</td>
</tr>
<tr>
<td>REMARKS</td>
<td>*External Protective Circuit for Inductive Load (Valve, Contactor, Etc..) Necessary. Conforms to 2008 NEC Section 725 III, Class 2 Circuits. M8 Connector voltage limited to 5-60 vdc / 5-50 vac to conform with 2008 IEC 61076-2-104. Clamping Screw with Combined Slot/Hexagon Socket Head AF 1.5. No LED Function in case of Polarity in DC Operation</td>
</tr>
<tr>
<td>ACCESSORIES</td>
<td>Rubber Placehold, Cable Clip, and Cut Sheet To Be Provided with Every Switch</td>
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</tr>
</tbody>
</table>
Quick Disconnect Cables

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Type</th>
<th>Operating Voltage</th>
<th>Current Rating</th>
<th>Cable Material</th>
<th>Protection</th>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>PXCST</td>
<td>Straight 5 m Cable (3 x 26 Gauge wire)</td>
<td>60 AC/75 DC</td>
<td>3 A</td>
<td>PUR</td>
<td>IP 68, III</td>
<td>M8</td>
</tr>
<tr>
<td>PXC90</td>
<td>90° 5 m Cable (3 x 26 Gauge wire)</td>
<td>60 AC/75 DC</td>
<td>3 A</td>
<td>PUR</td>
<td>IP 68, III</td>
<td>M8</td>
</tr>
</tbody>
</table>