INDEX:

Rod End Coupler
M-Series
Specifications........2

Rod End Coupler
M-Series
Dimensions.............3

Rod End Coupler
R-Series
Dimensions.............4

Rod End Coupler
R-Series
Specifications........5

Other Magnaloy
Products................6
Time and Money Saving Features...

- Eliminates need for custom designing.
- Simplifies cylinder installation.
- Increases design tolerances.
- Cuts cylinder repairs.
- Increases cylinder life-easier on seals, wiper, bearing surfaces and cushion parts.
- Compensates for machinery deflection and cuts bearing wear from side loads and binding.
- Allows equally effective angular or lateral displacement in either direction, push or pull.
- Immediate delivery from stock on thread sizes thru 1-1/2”.

- Fits all air and hydraulic cylinders built to industry standards, in first six thread sizes.
- Total of 10° Spherical Movement in push or pull.
- Total of 1/8” Lateral Movement.
- Manufactured from high tensile and hardened materials.
- Lubricated at factory.
- Adjusted at factory, no clearance or end play.
- Same load rating - push or pull.
- Internal thread mates with standard style No. 2 cylinder piston rods; external with style No.3.
## M-Series Specifications

### M-Series

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>A THREAD SIZE</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>MAX. RATED LOAD</th>
<th>PULL AT YIELD</th>
<th>APROX. WEIGHT (LBS.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M010-01024</td>
<td>5/16--24</td>
<td>1.562</td>
<td>1.750</td>
<td>.750</td>
<td>.500</td>
<td>.625</td>
<td>.500</td>
<td>.625</td>
<td>.375</td>
<td>1.031</td>
<td>1,450</td>
<td>2,425</td>
<td>5,800</td>
</tr>
<tr>
<td>M010-01224</td>
<td>3/8--24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9,700</td>
</tr>
<tr>
<td>M015-01420</td>
<td>7/16--20</td>
<td>1.562</td>
<td>2.0</td>
<td>.750</td>
<td>.750</td>
<td>.625</td>
<td>.500</td>
<td>.625</td>
<td>.500</td>
<td>1.031</td>
<td>3,250</td>
<td>4,450</td>
<td>13,000</td>
</tr>
<tr>
<td>M015-01620</td>
<td>1/2--20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>17,800</td>
</tr>
<tr>
<td>M020-02018</td>
<td>5/8--18</td>
<td>2.125</td>
<td>2.312</td>
<td>1.250</td>
<td>1.125</td>
<td>1.0</td>
<td>.875</td>
<td>1.125</td>
<td>.5312</td>
<td>1.312</td>
<td>7,150</td>
<td>9,050</td>
<td>28,600</td>
</tr>
<tr>
<td>M020-02416</td>
<td>3/4--16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>36,200</td>
</tr>
<tr>
<td>M020-02814</td>
<td>7/8--14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>57,800</td>
</tr>
<tr>
<td>M030-10014</td>
<td>1--14</td>
<td>2.750</td>
<td>3.062</td>
<td>1.50</td>
<td>1.625</td>
<td>1.250</td>
<td>1.125</td>
<td>1.250</td>
<td>.562</td>
<td>2.00</td>
<td>19,425</td>
<td>27,700</td>
<td>77,700</td>
</tr>
<tr>
<td>M040-10812</td>
<td>1-1/4--12</td>
<td>3.50</td>
<td>4.0</td>
<td>2.0</td>
<td>2.0</td>
<td>1.50</td>
<td>1.250</td>
<td>1.687</td>
<td>.750</td>
<td>2.50</td>
<td>30,825</td>
<td>123,300</td>
<td>183,000</td>
</tr>
<tr>
<td>M050-11612</td>
<td>1-1/2--12</td>
<td>4.0</td>
<td>4.375</td>
<td>2.250</td>
<td>2.250</td>
<td>1.750</td>
<td>1.500</td>
<td>1.937</td>
<td>.875</td>
<td>2.750</td>
<td>45,750</td>
<td>58,350</td>
<td>183,000</td>
</tr>
<tr>
<td>M050-12412</td>
<td>1-3/4--12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>233,400</td>
</tr>
<tr>
<td>M060-12812</td>
<td>1-7/8--12</td>
<td>5.0</td>
<td>5.625</td>
<td>3.0</td>
<td>3.0</td>
<td>2.250</td>
<td>1.937</td>
<td>2.625</td>
<td>1.375</td>
<td>3.375</td>
<td>67,550</td>
<td>77,450</td>
<td>270,200</td>
</tr>
<tr>
<td>M060-20012</td>
<td>2--12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>309,800</td>
</tr>
<tr>
<td>M070-20812</td>
<td>2-1/4--12</td>
<td>6.750</td>
<td>6.375</td>
<td>3.250</td>
<td>3.50</td>
<td>2.750</td>
<td>2.375</td>
<td>2.875</td>
<td>1.625</td>
<td>3.750</td>
<td>99,250</td>
<td>397,000</td>
<td>723,400</td>
</tr>
<tr>
<td>M080-21612</td>
<td>2-1/2--12</td>
<td>7.0</td>
<td>6.50</td>
<td>4.0</td>
<td>3.50</td>
<td>3.250</td>
<td>2.875</td>
<td>3.375</td>
<td>1.625</td>
<td>3.875</td>
<td>123,750</td>
<td>150,950</td>
<td>495,000</td>
</tr>
<tr>
<td>M080-22412</td>
<td>2-3/4--12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>603,800</td>
</tr>
<tr>
<td>M080-30012</td>
<td>3--12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>723,400</td>
</tr>
<tr>
<td>M100-30812</td>
<td>3-1/4--12</td>
<td>9.250</td>
<td>8.50</td>
<td>5.250</td>
<td>4.50</td>
<td>4.0</td>
<td>3.375</td>
<td>4.50</td>
<td>2.00</td>
<td>5.50</td>
<td>213,450</td>
<td>853,800</td>
<td>---</td>
</tr>
<tr>
<td>M140-40812</td>
<td>4-1/4--12</td>
<td>12.875</td>
<td>11.250</td>
<td>7.750</td>
<td>4.50</td>
<td>5.50</td>
<td>4.875</td>
<td>7.0</td>
<td>1.500</td>
<td>8.750</td>
<td>370,850</td>
<td>1,483,400</td>
<td>---</td>
</tr>
</tbody>
</table>

### Diagram

- **A** - Thread
- **B** - Across Flats
- **C** - Across Flats
- **D** -
- **E** -
- **F** -
- **G** -
- **H** -
- **J** -
- **K** -
- **L** -

---

**magnaloy coupling company**
P.O. Box 455 Alpena, MI 49707 989-356-2186
A Division of Douville Johnston Corporation Fax: 989-354-4190 http://www.magnaloy.com
## R-Series Specifications

### R - Series

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>THREAD SIZE</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>MAX. RATED LOAD</th>
<th>APROX. WEIGHT (LBS.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R010-01024</td>
<td>5/16--24</td>
<td>1.125</td>
<td>1.750</td>
<td>.937</td>
<td>.500</td>
<td>.500</td>
<td>.375</td>
<td>.750</td>
<td>.375</td>
<td>.932</td>
<td>1,450 2,425</td>
<td>.35</td>
</tr>
<tr>
<td>R010-01224</td>
<td>3/8--24</td>
<td>1.125</td>
<td>1.750</td>
<td>.937</td>
<td>.500</td>
<td>.500</td>
<td>.375</td>
<td>.750</td>
<td>.375</td>
<td>.932</td>
<td>1,450 2,425</td>
<td>.35</td>
</tr>
<tr>
<td>R020-01420</td>
<td>7/16--20</td>
<td>1.375</td>
<td>2.0</td>
<td>1.125</td>
<td>.750</td>
<td>.625</td>
<td>.500</td>
<td>.875</td>
<td>.375</td>
<td>1.088</td>
<td>3,250 4,450 6,800</td>
<td>.55</td>
</tr>
<tr>
<td>R020-01620</td>
<td>1/2--20</td>
<td>1.375</td>
<td>2.0</td>
<td>1.125</td>
<td>.750</td>
<td>.625</td>
<td>.500</td>
<td>.875</td>
<td>.375</td>
<td>1.088</td>
<td>3,250 4,450 6,800</td>
<td>.55</td>
</tr>
<tr>
<td>R020-02018</td>
<td>5/8--18</td>
<td>1.375</td>
<td>2.0</td>
<td>1.125</td>
<td>.750</td>
<td>.625</td>
<td>.500</td>
<td>.875</td>
<td>.375</td>
<td>1.088</td>
<td>3,250 4,450 6,800</td>
<td>.55</td>
</tr>
<tr>
<td>R030-02416</td>
<td>3/4--16</td>
<td>2.0</td>
<td>2.313</td>
<td>1.635</td>
<td>1.125</td>
<td>.969</td>
<td>.750</td>
<td>1.313</td>
<td>.438</td>
<td>1.282</td>
<td>9,050 14,450</td>
<td>1.4</td>
</tr>
<tr>
<td>R030-02814</td>
<td>7/8--14</td>
<td>2.0</td>
<td>2.313</td>
<td>1.635</td>
<td>1.125</td>
<td>.969</td>
<td>.750</td>
<td>1.313</td>
<td>.438</td>
<td>1.282</td>
<td>9,050 14,450</td>
<td>1.4</td>
</tr>
<tr>
<td>R040-10014</td>
<td>1--14</td>
<td>3.125</td>
<td>2.938</td>
<td>2.375</td>
<td>1.625</td>
<td>1.450</td>
<td>1.250</td>
<td>1.875</td>
<td>.625</td>
<td>1.794</td>
<td>19,425 30,825</td>
<td>4.8</td>
</tr>
<tr>
<td>R040-10812</td>
<td>1-1/4--12</td>
<td>3.125</td>
<td>2.938</td>
<td>2.375</td>
<td>1.625</td>
<td>1.450</td>
<td>1.250</td>
<td>1.875</td>
<td>.625</td>
<td>1.794</td>
<td>19,425 30,825</td>
<td>4.8</td>
</tr>
</tbody>
</table>

### Dimensions

- **A - THREAD**
- **B**
- **C**
- **D**
- **E**
- **F**
- **G**
- **H**
- **J**
- **K**
- **E - DEPTH**
- **ACROSS FLATS**

### Notes

- **R - Series**
- Specifications for parts listed above.
• Lubricated at factory.

• Adjusted at factory, no clearance or end play.

• Same load rating - push or pull.

• Internal thread mates with standard style No. 2 cylinder piston rods; external with style No.3.

• Fits all air and hydraulic cylinders built to industry standards, up to 1 1/4 inch thread.

• Total of 7 1/2° Spherical Movement and 1/8" Lateral Movement in push or pull.

• Designed to retro-fit with competitive brands while offering increased strength and misalignment capabilities.

• Manufactured from high tensile and hardened materials for additional strength and dependability.
Whatever your Fluid Power Unit needs, magnaloy has the products to keep you connected.

Flexible Drive Couplings
Top-of-the-line magnesium couplings are lighter, yet stronger than either cast iron or aluminum. They also offer better corrosion resistance and easier handling.

Pump/Motor Mounts
Precision machined aluminum & custom steel pump/motor mounts directly connect the motor and pump while ensuring accurate shaft alignment and enclosing the coupling. Vertical and horizontal models readily available from stock.

PM 90 Couplings
Economical PM-90 Iron Powder Couplings have long lasting nitrile, hytrel or urethane inserts. Double set screws give excellent gripping power.

Magnaloy Reservoirs & Reservoir Accessories
Magnaloy offers a complete line of standard reservoirs and reservoir accessories. In addition, we offer custom reservoir fabrication to meet our customer specific needs. Reservoir accessories such as Clean Out Covers and SAE Couplings are available for the “do-it-yourself” reservoir manufacturer

Magnaloy Hydraulic Bar Manifolds & Accessories
Complete line of inline Bar Manifolds, Subplates, Cover Plates, Valve Adaptors, Integrated Circuit Manifolds, and Accessories to make the design and fabrication of Hydraulic Circuitry simple and easy. Wide range of sizes include: D03, D05, D05H & D08 in aluminum and steel with ports available in SAE, NPTF, BSPP, and BSPT styles. Custom design and fabrication also available, consult factory.

Rod End Couplers
Two models of accurately machined high tensile cylinder rod end alignment couplers offer 7° or 10° spherical and 1/8” parallel misalignment capabilities.

Accessories
Filler Breather Adaptors, Filler Breathers, Reservoir Flanges, Suction Strainers, Gauge Isolators, Liquid Level Gauges, Modular O-Ring Kits.

Magnaloy Pressure Switch
Pressure Sensing switch capable of sensing up to three (3) separate pressures. Each sensor is externally independently adjustable from 200 to 4000 psi. Viton seals provide wide fluid compatibility range.