Series MP
Rod Lock (RL) Air Cylinder

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- Bore Sizes (32-125mm)
- Locks In Both Directions
- Non-Lube Operation
- Adjustable Cushions Standard
- ISO6431 and VDMA24562 Type
- Port Option Available (NPTF-SAE)

For additional information – call your local Parker Cylinder Distributor.
Features

Holding Forces

Comparison of Holding Forces

Connection

The signal air for the locking device can be obtained directly from a main air supply, or from the air supply serving the valve that controls the cylinder itself. For controlled ON/OFF operation of the locking device, a separate quick-venting valve is used.

The piston rod should not be moving when the locking device is activated. The locking device is not intended to brake a movement in repeated sequences.

Technical Data

Working medium  dry, filtered compressed air  
Working pressure  max. 1000 kPa (10 bar)  
Working temperature  -10°C to +75°C  
Locking pressure¹  min. 400 kPa (4 bars) ±10%

1) Signal pressure to connection port on locking device.
Dimensions
How to Order

For additional information – call your local Parker Cylinder Distributor.
1. Lock valve must be maintained energized during cylinder motion, otherwise rod lock is engaged and cylinder valve shifts to mid position.

2. Cylinder valve must be maintained energized during extend or retract. Also keep energized at end of stroke until change of direction is desired.

3. Mid position of 5/3 Cylinder valve may be pressurized outlets if the combination of pressure load on the cylinder and inertia effects of the attached load do not exceed the holding force rating of the rod lock device, including allowance for wear.

4. Do not use cylinder lines for any logic functions — pressure levels vary too much.

How to Order Series “MPRL” Cylinders

Parker Series MPRL pneumatic cylinders can be specified by model number by using the table below.

<table>
<thead>
<tr>
<th>Bore Size</th>
<th>Cushion Head End</th>
<th>Double Rod Cylinder</th>
<th>Mounting Style</th>
<th>Series</th>
<th>Ports</th>
<th>Seals</th>
<th>Special Modification</th>
<th>Piston Rod No.</th>
<th>Piston Rod Thread Style</th>
<th>Piston Rod Thread Type</th>
<th>Piston Cap End</th>
<th>Stroke</th>
</tr>
</thead>
</table>

Example

<table>
<thead>
<tr>
<th>50</th>
<th>C</th>
<th>K</th>
<th>J</th>
<th>MPRL</th>
<th>R</th>
<th>S</th>
<th>1</th>
<th>4</th>
<th>M</th>
<th>C</th>
<th>200</th>
</tr>
</thead>
</table>

Note: When ordering Rod Lock Cylinders, model number must include cushions on both ends.