How to order and Specify

Ordering Example: Low Pressure Hydraulic Cylinder — All Steel Construction for Light or Medium Duty Applications

Cap fixed clevis, 2 1/2" bore x 12" stroke, 1.38" rod with 1"-14 x 1.62 NFPA short male threads. Front and rear end caps have SAE ports at end cap side location 1, cushions at end cap side location 2 and nothing at end cap side location 3 and 4. Viton seals are required.

End Cap Side Locations: 1 2 3 4 1 2 3 4

Position No: A B C D E F G H J

A Cylinder Model: Specify LH in this position.

- 1 1/2" bore through 6" bore.
- D.O.M. Seamless steel tube, precision honed and hard chrome plated ID with thicker wall for maximum strength. (Std.)
- Larger diameter tie rods than industry standards for maximum strength. (Std.)
- Removable, self-aligning, bearing cartridge. (Std.)
- Nitrile O-Ring Seal with Teflon backup ring on O.D. of rod cartridge. (Std.)
- Longer lasting improved sealing system. (Std.)
- Precision machined steel cylinder heads. (Std.)
- Pre-loaded piston seals prevents oil bypass. (Std.)
- 100,000 PSI yield, "IHCP" chrome plated piston rod. (Std.)
- Adjustable cushions with captive screw. (Cushions are optional)
- Air bleed system. (Optional)
- Rod cartridge drain back system. (Optional)
- "Slip Tuff" coated rod cartridge for severe side loaded applications. (Optional)

B Specify Cylinder Mounting Style: See inside for illustrations.

LH 0 No Mount .................................. (MX0)
LH 1 Foot Side Lugs ............................. (MS2)
LH 2 Head Trunnion ............................ (MT1)
LH 3 Cap Fixed Clevis .......................... (MP1)
LH 4 Head Rectangular Flange ................. (MF1)
LH 5 Cap Rectangular Flange .................. (MF2)
LH 6 Intermediate Trunnion .................... (MT4)
LH 7 Cap Trunnion .............................. (MT2)
LH 8 Head Tie Rod Extended ................. (MX3)
LH 11 Cap Tie Rod Extended ................. (MX2)
LH 12 Head & Cap Tie Rod Extended ......... (MX1)
LH 13 End Angles ............................... (MS1)
LH 14 End Lugs ................................. (MS7)
LH 15 Centerline Lugs ......................... (MS3)
LH 16 Side Tapped .............................. (MS4)
LH 17 Head Square Flange .................... (MF5)
LH 18 Cap Square Flange ..................... (MF6)
LH 21 Cap Detachable Eye .................... (MP4)
LH 22 Cap Fixed Spherical Eye ............... (MP5)
LH 24 Cap Detachable Clevis ................. (MP2)
LH 25 Cap Fixed Eye .......................... (MP3)
LH 27 Cap Detachable Clevis ................. (Equals MP1 envelope dimensions)

C Specify Cylinder Bore

<table>
<thead>
<tr>
<th>Bore Size</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>150</td>
<td>1 1/2&quot; bore</td>
</tr>
<tr>
<td>200</td>
<td>2&quot; bore</td>
</tr>
<tr>
<td>250</td>
<td>2 1/2&quot; bore</td>
</tr>
<tr>
<td>325</td>
<td>3 1/4&quot; bore</td>
</tr>
<tr>
<td>400</td>
<td>4&quot; bore</td>
</tr>
<tr>
<td>500</td>
<td>5&quot; bore</td>
</tr>
<tr>
<td>600</td>
<td>6&quot; bore</td>
</tr>
</tbody>
</table>

D Specify Stroke Length

Peninsular LH Cylinders can be ordered in 1/4" increments with stroke lengths from 1/2" to over 15 feet.

For Stop Spool (Stop Tube) applications, contact Peninsular to determine call out for correct stroke length to specify.

E Specify Piston Rod Diameter and Rod Threads: See Rod Chart on next page.

F-G Specify Plumbing Configuration for Front End Cap (F) and Rear End Cap (G)

A = Hydraulic Supply Port - NPTF Threads.
T = Hydraulic Supply Port - SAE Straight 'O' Ring Threads.
C = Cushion Adjustment Screw.
M = Proximity Switch Ready Heads only, no switch mounted to the cylinder end cap.
N = Nothing. (No port, cushion or prox.)
S = Proximity Switch to be in-port mounted to the cylinder end cap by Peninsular (complete position H).
**Optional Proximity Switch Capability**

Allows for NON-CONTACT piston position sensing at near end of stroke. Precision machined cylinder heads and piston cushions allow for in-port mounting of “RF inductive” proximity switches. Self-contained switch probe not subject to contamination. Peninsular’s design provides consistent, reliable, repeatable stroke-to-go and eliminates the design and construction of brackets necessary to mount external mechanical limit switches.

(If proximity switch cords are required, contact Peninsular.)

Contact Peninsular for probe lengths and stroke-to-go distances for each cylinder bore.

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**Specify Optional Features with Slash Mark and Alpha Character(s)**

- **/C** Air Bleed
- **/D** Drain Back
- **/E** Extended Piston Rod*
- **/F** Bronze Rod Cartridge
- **/H** Rod Boot Cover
- **/I** Cast Iron Piston Rings
- **/L** Lubricated Trunnion Pins
- **/N** Stop Tube*
- **/P** Oversize Ports (Specify)
- **/R** Threaded Stud Rod End
- **/S** Scraper Ring
- **/T** Viton Seals
- **/X** Extended Key
- **/Y** Double Rod End

* Specify length

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**Specify Piston Rod Diameter and Rod Threads**

<table>
<thead>
<tr>
<th>Bore Size</th>
<th>Rod Diameter</th>
<th>Short Male Specify “M”</th>
<th>Short Female Specify “F”</th>
<th>Full Male Specify “D”</th>
<th>Intermediate Male Specify “I”</th>
<th>Long Male Specify “A”</th>
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</thead>
<tbody>
<tr>
<td>1.00</td>
<td>A = 0.62</td>
<td>7/16” x 20 x 0.75</td>
<td>5/8” x 18 x 0.75</td>
<td>1/2” x 20 x 0.75</td>
<td>1/2” x 20 x 1.12</td>
<td>1/2” x 20 x 1.12</td>
</tr>
<tr>
<td>2.00</td>
<td>B = 1.00</td>
<td>3/4”-16 x 1.12</td>
<td>1”-14 x 1.12</td>
<td>7/8”-14 x 1.12</td>
<td>7/8”-14 x 1.12</td>
<td>7/8”-14 x 1.12</td>
</tr>
<tr>
<td>3.25</td>
<td>C = 1.38</td>
<td>1”-14 x 1.12</td>
<td>1-1/16” x 1.12</td>
<td>1-1/16” x 1.12</td>
<td>1-1/16” x 1.12</td>
<td>1-1/16” x 2.25</td>
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<tr>
<td>3.75</td>
<td>D = 1.75</td>
<td>1-1/4”-12 x 2.00</td>
<td>1-1/4”-12 x 1.25</td>
<td>1-1/4”-12 x 1.25</td>
<td>1-1/4”-12 x 1.25</td>
<td>1-1/4”-12 x 1.25</td>
</tr>
<tr>
<td>4.00</td>
<td>E = 2.00</td>
<td>1-1/4”-12 x 2.25</td>
<td>2-1/4”-12 x 2.25</td>
<td>2-1/4”-12 x 2.25</td>
<td>2-1/4”-12 x 2.25</td>
<td>2-1/4”-12 x 2.25</td>
</tr>
<tr>
<td>5.00</td>
<td>F = 2.50</td>
<td>1-1/2”-12 x 3.00</td>
<td>3-1/2”-12 x 3.00</td>
<td>3-1/2”-12 x 3.00</td>
<td>3-1/2”-12 x 3.00</td>
<td>3-1/2”-12 x 4.50</td>
</tr>
<tr>
<td>6.00</td>
<td>G = 3.00</td>
<td>2-1/4”-12 x 3.50</td>
<td>5-1/2”-12 x 3.50</td>
<td>5-1/2”-12 x 3.50</td>
<td>5-1/2”-12 x 3.50</td>
<td>5-1/2”-12 x 5.50</td>
</tr>
</tbody>
</table>

- Larger rod diameters are available up through 4.00" diameter. Contact Peninsular.
- Other rod threads and rod ends are available. Contact Peninsular.