



**SERIES JHDH
MEDIUM PRESSURE HYDRAULIC CYLINDER
PRESSURE RATED BY BORE SIZE**

*The Lehigh Medium Pressure Hydraulic Cylinder
Uniquely Qualified for Demanding Work*

BENEFITS!

Based on the material sizes of our air cylinder, this hydraulic-fitted cylinder provides an economical design for hydraulic applications when a full 3,000 PSI working pressure is not required. (See our High Pressure Hydraulic catalog for cylinders of all bore sizes rated to 3,000 PSI.)



This JHDH Series offers pressure ratings starting at 2,000 PSI with the 1" dia. bore. The pressure is then rated per size as the bore increases. (See the chart below.) The construction of this series enables the system designer to select a cylinder more closely matched to a circuit pressure, rather than opting for the bigger, more expensive high pressure cylinder design. Not only are there cost savings, but space and weight savings as well.

A truly unique benefit of our JHDH Series hydraulic cylinder is the ability of the system designer to specify tie-rod mount limit switches in the machine design. As pneumatic system designers already know, this is an economical position sensing technology as compared to end-of-stroke proximity sensors or linear displacement transducers. However, this has not been an option on hydraulic cylinders until our own unique construction design allowed it.

We are able to offer the lower cost tie-rod mount limit switch design on our medium pressure hydraulic series because of our construction materials. Competitors' air cylinders typically use aluminum tubes and can offer limit switches on them; but when they change to steel tubes for their medium pressure designs, they lose the ability to use magnetic switches. The tubing for both our air and medium pressure hydraulic cylinders is hard-tempered brass - has been since the 1940's. This material enables us to feature the same magnetic piston sensing option in hydraulics that is common in pneumatics.

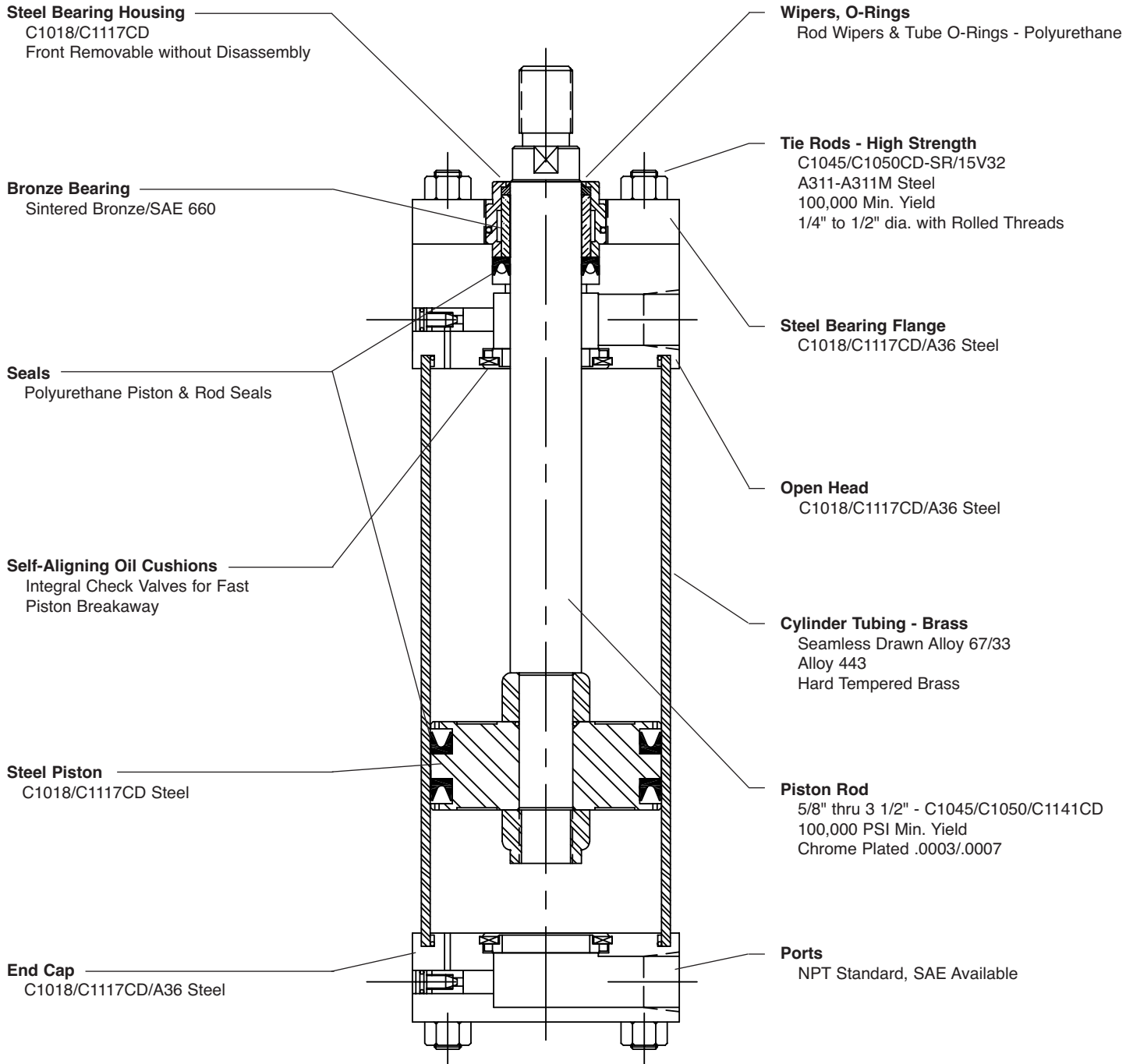
JHDH Medium Pressure Hydraulic Cylinder Series Bore VS. Maximum Working Pressure Rating			
Bore	Pressure	Bore	Pressure
1"	2,000 PSI	3 1/4"	1,000 PSI
1 1/2"	1,500 PSI	4"	700 PSI
2"	1,200 PSI	5"	600 PSI
2 1/2"	1,000 PSI	6"	600 PSI

Note: Pressure ratings are reduced for #06 and #07 mounting styles. See ratings on applicable data pages.

SERIES JHDH MEDIUM DUTY HYDRAULIC CYLINDER

FEATURES!

The Series JHDH Hydraulic Cylinder Comes Standard with the Following Design Features:



Other... Operating Pressure to 2,000 PSI (Rated per Bore Size) ... Operating Temp. from 0° to 165°F (Standard), to 400°F (Optional Seals)

Custom Hydraulic Cylinders

An important part of our business is the custom cylinder design. The Series JHDH hydraulic cylinder is available in virtually any configuration required by your special application. When you contact us with your design challenges, chances are that our engineering will meet the requirements of your special mounting, material, seal, temperature, sensing or other needs.