



7L Series

Medium Duty Hydraulic
1.50 through 14.00 bore
NFPA Tie Rod Hydraulic Service
Up to 2030 psi Pressure Rating

Using the same design benefits of the 3TH series, the 7L series was developed. The 7L series cylinders are slightly smaller for hydraulic applications requiring less pressure to operate. Available in 21 mounting styles and 7 rod end styles in accordance with NFPA/JIC guidelines.

Basic Product Offers

- ◆ 100,000 PSI min yield Chromed Hard Rod
- ◆ 100,000 PSI min yield Tie Rods
- ◆ Steel Honed Barrel
- ◆ Precision Machined Heads and Caps
- ◆ Uni Cartridge Bolted Rod Bearing
- ◆ 21 NFPA/JIC Mounting Styles
- ◆ 7 Standard Rod End Styles
- ◆ NPTF Ports
- ◆ Multiple Rod Diameters per Bore Size

Available Constructions

- ◆ Single Rod End
- ◆ Double Rod End
- ◆ Cap End Cover Stroke Adjustment
- ◆ Tandem - Single Rod End
- ◆ Back-to-Back
- ◆ Spring Extend
- ◆ Spring Return
- ◆ Multiple-Stage

Max Operation Pressures

- ◆ 1.50" bore - 2030 psi
- ◆ 2.00" bore - 1045 psi
- ◆ 2.50" bore - 1115 psi
- ◆ 3.25" bore - 990 psi
- ◆ 4.00" bore - 700 psi
- ◆ 5.00" bore - 680 psi
- ◆ 6.00" bore - 575 psi
- ◆ 8.00" bore - 510 psi
- ◆ 10.00" bore - 345 psi
- ◆ 12.00" & 14.00" bores - 330 psi

Standard 2 Year Warranty

- ◆ Standard defect two (2) year or 4,000 hrs of normal application usage
- ◆ Electronics per it's factory warranty

Inspection and Test

- ◆ All cylinders are fully inspected for order accuracy and bench pressure tested before painting and shipping.
- ◆ All 7L series are bench pressure tested to the cylinders' rated pressure

Basic Mounting Offers

- ◆ A - Cap Rectangular Flange (MF2)
- ◆ AA - Cap Square Flange (MF6)*
- ◆ B - Head Rectangular Flange (MF1)
- ◆ BB - Head Square Flange (MF5)*
- ◆ CC - End Foot Lugs (MS7)
- ◆ E - Intermediate Trunnion (MT4)
- ◆ EB - Cap End Trunnion (MT2)
- ◆ ER - Head End Trunnion (MT1)
- ◆ G - Fixed Clevis (MP1)
- ◆ H - Side Tapped (MS4)
- ◆ J - Side Lugs (MS2)
- ◆ K - Centerline Lugs (MS3)
- ◆ L - Extended Tie Rods Both Ends (MX1)
- ◆ M - Extended Tie Rods Head End (MX3)
- ◆ N - Extended Tie Rods Cap End (MX2)
- ◆ O - Basic No Mount (MX0)
- ◆ P - Rectangular Cap (ME6)
- ◆ PP - Square Cap (ME4)***
- ◆ Q - Rectangular Head (ME5)
- ◆ QQ - Square Head (ME3)***
- ◆ SP - Spherical Pivot**
- ◆ R - Detachable Pivot (MP4)*
- ◆ Z - Detachable Clevis (MP2)*

Additional Mounting Offers

- ◆ D - Fixed Pivot (MP3)**

Optional Offers

- ◆ Porting
 - SAE Straight Threads
 - British Parallel
 - British Tapered
 - Flanged SAE-Code 61
 - Flanged SAE-Code 62
 - Undersized-NPTF and SAE
 - Oversized Couples-NPT and SAE
 - Special Requested Ports

Optional Offers

- ◆ End of Stroke Cushions
- ◆ Seal Materials
 - Polyurethane
 - Viton
 - Ethylene-Propylene
 - Teflon
- ◆ Bore Materials
 - Chromed Bore - Type I
 - Chromed Bore - Type II
- ◆ Rod Materials
 - 17-4 Stainless Steel
- ◆ Special Requested Rod Ends
- ◆ Multiple Wrench Flats
- ◆ Full Face Cartridge Retainers
- ◆ Extended Key Retainers
- ◆ Rod Gland Drains
- ◆ Special Fluid Applications
 - Water Fitted
 - Water Glycol
 - Special Requested Mediums
- ◆ Air Bleeds
- ◆ Coatings
 - Primer
 - Epoxy
 - Nickel-Plating
 - Cadmium Plating
 - Special Requested Coatings
- ◆ Metallic Scraper
- ◆ Rod Boots
- ◆ Cylinder Accessories
 - Rod End
 - Base Mounts
 - Electronics - Switches
 - Flanged End of Stroke
 - Dyna Style End of Stroke

* Available with the 1.50" thru 4.00" bore sizes
** Available with the 1.50" thru 6.00" bore sizes
***Available with the 8.00" thru 14.00" bore sizes