



Internal details shown are representative of typical cylinder construction. Variations in design are necessary in some combinations of bore, rod, and mounting style due to space limitations.

Typical Construction Features Of Lynair Series "LH" Hydraulic Cylinders

PRESSURE RATINGS

Series "LH" Hydraulic cylinders are rated for use at operating pressure levels that vary with bore size, rod diameter, mounting style, and stroke length.

The maximum recommended operating pressure for Flange mount Models "C" and "D" are given on pages showing dimensional information for these mounting styles.

Refer to data on "Piston Rod Size Selection" given on page 7 for effects of stroke length on Maximum Recommended Operating Pressure.

CYL. BOR	MAXIMUM RATED PRES-	
	WITH SMALLEST AVAILABLE ROD	WITH ALTERNATE ROD DIAMETERS
1 1/2	1500	1500
2	1500	1500
2 1/2	1000	1200
3 1/4	1500	1500
4	1000	1000
5	750	750
6	750	750
8	500	500
10	500	500
12	500	500
14	500	500

INDUSTRY STANDARD MOUNTING DIMENSIONS

LYNAIR Series "LH" models conform to ANSI Standard B93.15-1971 for Mounting Dimensions of Square Head Industrial Fluid Power Cylinders and meet or exceed JIC Hydraulic Standards.

CYLINDER PORTS

N.P.T.F. ports are standard and provided unless otherwise requested. S.A.E. 'O'-Ring style ports are optional and may be specified at no additional cost. Standard sizes are shown below.

CYL. BORE	PORT SIZE	CYL. BORE	PORT SIZE
1 1/2	#6♦	6	#12
2	#6♦	8	#12
2 1/2	#6♦	10	#16
3 1/4	#8	12	#16
4	#8	14	#20
5	#8		

♦ Series A & LH Cylinders furnished with SAE #4 ports in these bore sizes furnished with the largest available rod diameter.

GENERAL CONSTRUCTION INFORMATION

Series "LH" Hydraulic models are made with the same quality features as Series "A" Air cylinders detailed on the preceding page. The two types of cylinders share common exterior and mounting dimensions with the only construction variations being in the rod seal set as noted.

EXTERIOR MATERIALS

Front and Rear Heads are accurately machined from precision square steel blocks. Cylinder Tubes, Bearing Retainers, and mountings are constructed of steel for maximum strength and durability.

ROD SEALS WITH SPRING EXPANDER

Pressure energized multiple lip packing set consists of three Buna-N V-rings supported by a bronze male adapter which aids seal expansion in response to system pressure. A wave spring exerts sufficient preloading to prevent weeping when system pressure is off.

ADJUSTABLE CUSHION OPTION

Cushions are optional at either one or both ends of the cylinder. When provided, close fitting surfaces of mating components trap air which decelerates the piston speed before reaching the end of stroke position. Flush fitting Cushion Screw permits adjustment in deceleration rate while interchangeable Ball Check aids start up upon reversal of travel direction.