



■ Grease Fitting to Lubricate Pin

■ Choice of Piston Rod Mountings to Meet Individual Requirements

■ Dual Lip Wiper to Prevent Contamination Entry

■ Single or Multiple Lip Rod Seal

■ Threaded, Sealed Stuffing Box (Gland)

■ Hard Chrome-Plated and Nitrited Piston Rods Available

■ High-Strength DOM Steel Tubing

■ Bore Diameters from 2" Through 10 1/2"

■ Variety of Piston Seals Available

■ Standard NPTF or SAE O-Ring Ports

■ High-Strength Welds at Critical Stress Areas

■ Grease Fitting to Lubricate Pin

■ Choice of Base Mountings to Meet Individual Requirements

Every hydraulic cylinder serves a specific purpose. Each application has its own special requirements. "Off-the-Shelf" cylinders may save a small amount of money per unit, but they seldom satisfy the total job requirement. Too often, engineering revisions have to be made when trying to fit a standard cylinder to a specific application. With **Custom Hoists**, it is easy to get a hydraulic cylinder job underway. Call us direct and outline the requirements or discuss them with a **Custom Hoists** representative. We'll take it from there. Trust the Professionals.

**CUSTOM HOISTS, INC.**



PISTON ROD

single  
& **DOUBLE**  
acting

CYLINDERS

ISO 9001 Registered Company



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# INSIDE the POWER



Custom Hoists hydraulic piston rod cylinders feature a number of benefits that conquer the competition. We use high-strength D.O.M. tubing to work in applications with system pressures up to 3,000 P.S.I. Available to meet specific demands are 2" through 10 1/2" bore sizes, strokes up to 170" and single or double-acting designs. Our cylinders also have finished I.D. surfaces, fully welded construction, adjustable or non-adjustable rod seals and dual lip wipers to prevent contamination entry. Custom Hoists offers a variety of end mountings and either standard NPTF or SAE o-ring ports to match specific requirements.

Available on request are hard chrome-plated or nitrited piston rods to assure trouble-free performance for years. Cushioned strokes, positive piston seals to eliminate drift and welded reinforcing bands for added strength are also available. Custom Hoists production versatility is matched only by the wide range of applications on which our piston rod cylinders have been proven such as: Refuse Trucks and Packers, Roll-Off units, Compactors and Balers, Construction and Mining Equipment, Low-Boy Trailers, and many more. Take a look at our line and provide us with the basic eight specifications: Bore Diameter, Closed Length, Length of Stroke, Piston Rod Diameter, System Working Pressure, End Mountings, Maximum Load-Extend & Retract and Application. We will design a cylinder to make your job easier every day and perform for years.

## EXTEND CAPACITIES

Double-Acting or Single-Acting  
(SA) Cylinder

**DA6-116-72**  
Bore Diameter

**DA6-116-72**  
Design Sequence Number

**DA6-116-72**  
Cylinder Stroke

**DA6-116-72**

**MODEL NUMBER I.D.**

Rod Bore Diameter (IN.)	Cross Sectional Area (SQ. IN.)	SPECIFIC OPERATING PRESSURES			
		1,800 PSI (LBS.)	2,000 PSI (LBS.)	2,500 PSI (LBS.)	3,000 PSI (LBS.)
2	3.14	5,672	6,280	7,850	9,420
2 1/2	4.90	8,020	9,800	12,250	14,700
3	7.06	12,708	14,120	17,650	21,180
3 1/2	9.62	17,316	19,240	24,050	28,860
4	12.56	22,608	25,120	31,400	37,680
4 1/2	15.90	28,620	31,800	39,750	47,700
5	19.63	35,334	39,260	49,075	58,890
5 1/2	23.75	42,750	47,500	59,375	71,250
6	28.27	50,886	56,540	70,675	84,810
6 1/2	33.18	59,724	66,360	82,950	99,540
7	38.48	69,264	76,960	96,200	115,440
7 1/2	44.17	79,506	88,340	110,425	132,510
8	50.26	90,468	100,520	125,650	150,780
8 1/4	53.50	96,300	107,000	133,750	160,500
8 1/2	56.74	102,132	113,480	141,850	170,220
9	63.61	114,498	127,220	159,025	190,830
9 1/2	71.00	127,800	142,000	177,500	213,000
9 3/4	74.50	134,100	149,000	186,250	223,500
10	78.54	141,372	157,080	196,350	235,620
10 1/2	86.59	155,862	173,180	216,475	259,770

**EXAMPLE:**

Bore (5" dia.) C.S. area      19.63 sq. in.  
 Rod (2" dia.) C.S. area      - 3.14 sq. in.  
 Difference                      16.49 sq. in.  
 Desired Operating Pressure x 1800 p.s.i.  
 Retract Capacity              29,682 lbs.

To find the retract capacity of a standard double-acting cylinder, subtract the piston rod or plunger cross sectional area from the bore cross sectional area. Multiply the difference by the desired operating pressure. The result is the retract capacity in pounds.