

Double-Acting Cylinders (RD Series)

Double-Acting, Hydraulic-Return — 10-500 Ton Capacity

High tonnage, with premium design and quality for high cycle life. Ideal for rapid or controlled return of piston such as pressing or fixturing applications.



Hoses, Fittings
& Gauges
Pages
74-80



Cylinder
Accessories
Page
158



Cylinder/Pump
Speed/Selection
Chart Page
178



Cylinder
Repair
Kits
Page 159



Technical Info
Page 174

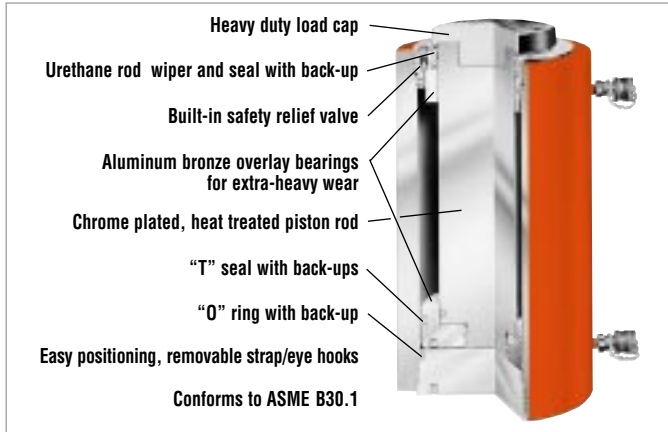


- “RD” series cylinders are perfect for bridge lifting, building reconstruction, shipyard, utility and mining equipment maintenance.
- Aluminum bronze overlay bearings provide long life, chrome plated piston rods resist corrosion.
- Comply fully with ASME B30.1 standard.
- Load cap snaps out to expose internal piston rod threads for pulling applications; threads withstand full tonnage.
- Grooved ring pattern in load cap helps guard against load slippage.
- Each cylinder has two 9796 3/8" NPTF female half couplers.
- Built-in safety relief valve prevents accidental over-pressurization of the retract circuit.
- Cylinder comes with base mounting holes and collar threads.

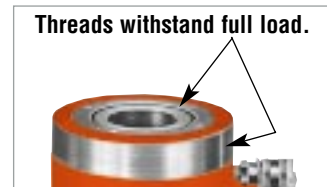
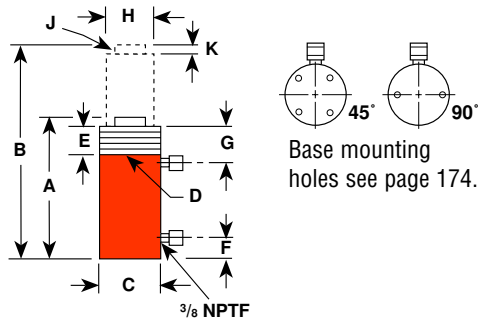
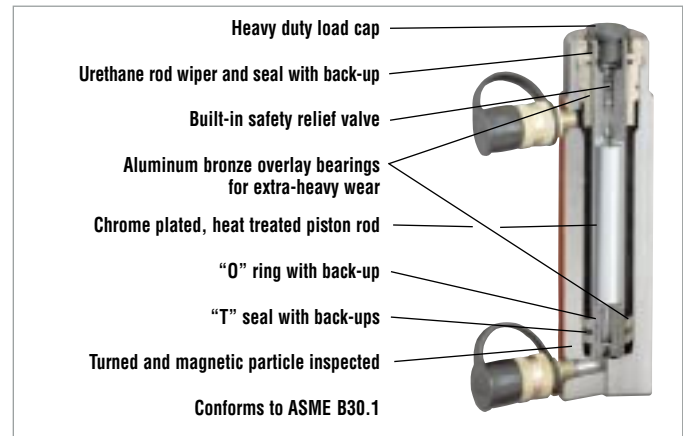


Four special order 500 ton, 609 mm stroke cylinders used in a swaging press for crimping 89 mm wire rope.

Features of RD300, RD400 and RD500 Series Cylinders



Features of RD10 thru RD200 Series Cylinders



ORDERING INFORMATION

See current price list for shipping weights

Cyl. Cap. (tons)	Stroke (mm)	Order No.	Oil Capacity (cu. cm)		A Re-tracted Height (mm)	B Ex-tended Height (mm)	C Outside Dia. (mm)	D Collar Thread Size (in.)	E Collar Thread Length (mm)	F Base to Port (mm)	G Cylinder Top to Port (mm)	H Piston Rod Dia. (mm)	J Piston Rod Int. Thread and Depth (mm)	K Piston Rod Pro-trusion (mm)	Load Cap Dia. (mm)	Bore Dia. (mm)	Cyl. Eff. Area (sq. cm)		Int. Press. at Cap. (bar)		Metric Tons at 700 bar		Prod. Wt. (kg)
			Push	Pull													Push	Pull	Push	Pull	Push	Pull	
10	4	RD106	228.0	90.2	296.9	455.6	76.2	2 1/4-12	41.3	25.4	63.5	33.3	1-8 x 25.4	6.4	34.9	42.9	14.4	5.7	616	624	10.2	4.0	10.0
10	4	RD1010	365.7	144.3	398.5	652.5	76.2	2 1/4-12	41.3	25.4	63.5	33.3	1-8 x 25.4	6.4	34.9	42.9	14.4	5.7	616	624	10.2	4.0	12.7
25	8	RD256	528.1	165.6	314.3	473.1	101.6	4-12	41.3	25.4	63.5	54.0	1 1/2-16 x 25.4	9.5	54.0	65.1	33.2	10.4	668	684	23.4	7.3	18.1
25	8	RD2514	1,205.4	375.6	517.5	879.5	101.6	4-12	41.3	25.4	63.5	54.0	1 1/2-16 x 25.4	9.5	54.0	65.1	33.2	10.4	668	684	23.4	7.3	29.5
55	28	RD556	1,131.6	577.3	329.4	488.2	127.0	5-12	41.3	33.3	63.5	66.7	1 1/8-8 x 30.2	15.9	66.7	95.3	71.2	36.3	686	685	50.1	25.6	27.9
55	28	RD5513	2,376.4	1,212	504.0	837.4	127.0	5-12	41.3	33.3	63.5	66.7	1 1/8-8 x 30.2	15.9	66.7	95.3	71.2	36.3	686	685	50.1	25.6	40.9
55	28	RD5518	3,280	1,672.8	657.2	1,117.6	127.0	5-12	41.3	33.3	63.5	66.7	1 1/8-8 x 30.2	15.9	66.7	95.3	71.2	36.3	686	685	50.1	25.6	64.5
80	44	RD8013	3,421	1,900.8	517.5	850.9	146.1	5 3/4-12	41.3	38.1	63.5	76.2	2-4 1/2 x 38.1	14.3	73.0	114.3	102.6	57.0	693	686	72.1	40.1	53.6
100	44	RD1006	2,241.9	959.4	350.0	518.3	174.6	6 1/2-12	41.3	38.1	63.5	98.4	2 1/2-12 x 29.4	15.9	98.4	130.2	133.1	57.0	668	686	93.5	40.1	57.2
100	44	RD10013	4,439.5	1,902.4	515.1	848.5	174.6	6 1/2-12	41.3	38.1	63.5	98.4	2 1/2-12 x 29.4	15.9	98.4	130.2	133.1	57.0	668	686	93.5	40.1	82.2
100	44	RD10020	6,809.3	2,919.2	718.3	1,229.5	174.6	6 1/2-12	41.3	38.1	63.5	98.4	2 1/2-12 x 29.4	15.9	98.4	130.2	133.1	57.0	668	686	93.5	40.1	118.0
150	73	RD1506	3,334.1	1,605.6	377.8	546.1	209.6	8 1/4-12	41.3	50.8	63.5	114.3	3 3/8 x 38.1	20.6	114.3	158.8	197.9	95.3	674	681	139.1	66.9	85.4
150	73	RD15013	6,604.3	3,180	542.9	876.3	209.6	8 1/4-12	41.3	50.8	63.5	114.3	3 3/8 x 38.1	20.6	114.3	158.8	197.9	95.3	674	681	139.1	66.9	123.5
150	73	RD15018	9,131.5	4,391.9	673.9	1,134.3	209.6	8 1/4-12	41.3	50.8	63.5	114.3	3 3/8 x 38.1	19.1	114.3	158.8	197.9	95.3	674	681	139.1	66.9	170.7
200	113	RD2006	4,485.4	2,456.7	406.4	574.7	241.3	9 1/2-12	41.3	63.5	68.3	123.8	3 3/8 x 57.1	27.0	114.3	184.2	266.3	145.9	668	688	187.2	102.6	118.9
200	113	RD20013	8,885.5	4,869.2	571.5	904.9	241.3	9 1/2-12	41.3	63.5	68.3	123.8	3 3/8 x 57.1	27.0	114.3	184.2	266.3	145.9	668	688	187.2	102.6	161.6
200	113	RD20018	12,270	6,722.4	723.9	1,184.3	241.3	9 1/2-12	41.3	63.5	68.3	123.8	3 3/8 x 57.1	27.0	114.3	184.2	266.3	145.9	668	688	187.2	102.6	200.7
300	147	RD3006	5,920.4	2,902.8	438.9	591.3	273.1	10 1/2-12	60.3	85.7	85.7	158.8	2 1/2-12 x 82.5	28.6	174.6	222.3	387.8	190.0	687	689	272.7	133.6	172.5
300	147	RD30013	12,825	6,281.2	630.2	960.4	273.1	10 1/2-12	60.3	85.7	85.7	158.8	2 1/2-12 x 82.5	28.6	174.6	222.3	387.8	190.0	687	689	272.7	133.6	296.9
400	186	RD4006	7,724.4	4,050.8	489.7	642.1	320.7	12 1/2-8	69.9	97.6	97.6	184.2	3-12 x 92.2	31.8	198.4	254.0	506.6	240.3	702	689	356.2	169.0	265.6
400	186	RD40013	16,744	8,790.4	667.5	997.7	320.7	12 1/2-8	69.9	97.6	97.6	184.2	3-12 x 92.2	31.8	198.4	254.0	506.6	240.3	702	689	356.2	169.0	349.6
500	245	RD5006	9,774.4	4,838	522.3	674.7	374.7	14 1/2-8	79.4	105.6	105.6	203.2	3 1/4-12 x 107.9	38.1	215.9	285.8	641.1	317.0	693	689	450.8	222.8	371.8
500	245	RD50013	21,189	10,480	700.1	1,030.3	374.7	14 1/2-8	79.4	105.6	105.6	203.2	3 1/4-12 x 107.9	38.1	215.9	285.8	641.1	317.0	693	689	450.8	222.8	495.8

