DOUBLE ACTING

RD Series

10-500 Ton

Double Acting, Hydraulic-Return

CYLINDERS

HIGH TONNAGE PREMIUM DESIGN FOR HIGH CYCLE LIFE.

- Perfect for bridge lifting, building reconstruction, shipyard, utility and mining equipment maintenance.
- Aluminum bronze overlay bearings provide long life, chrome plated piston rod resists corrosion.
- 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 over-pressurization of the retract circuit.
- Feature mounting holes and collar threads.

Four special order 500 ton, 24" stroke cylinders used in a swaging press for crimping 3 1/2" wire rope.

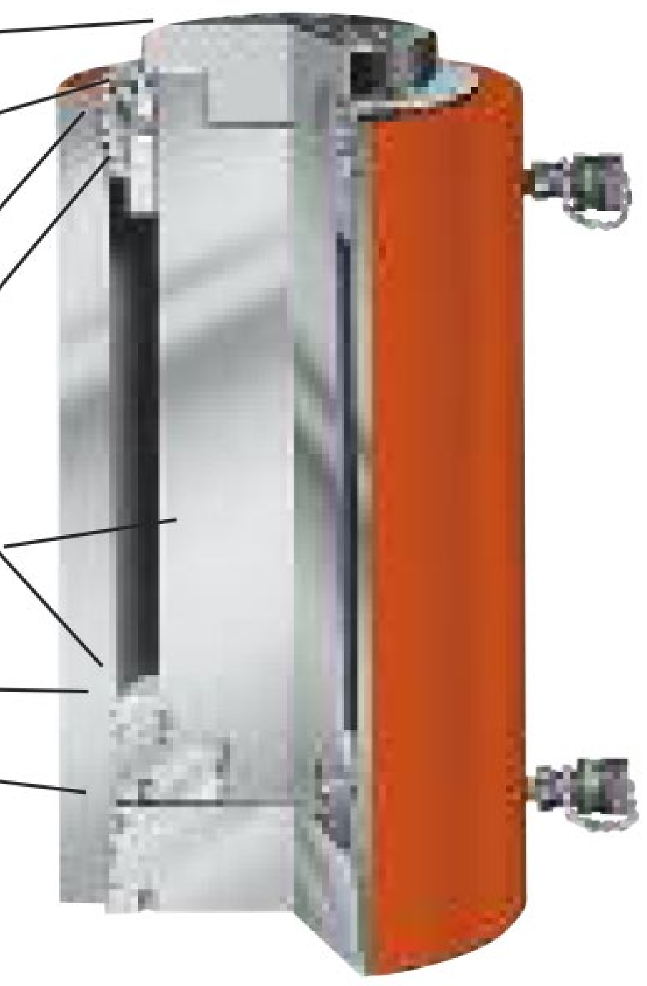
RD10013

RD300

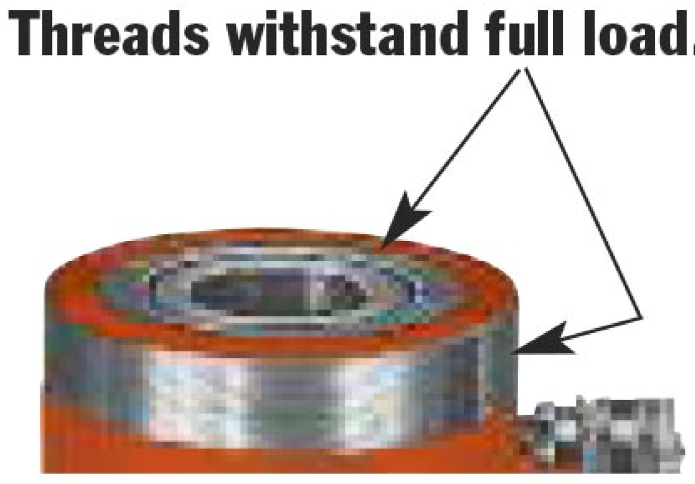
RD556

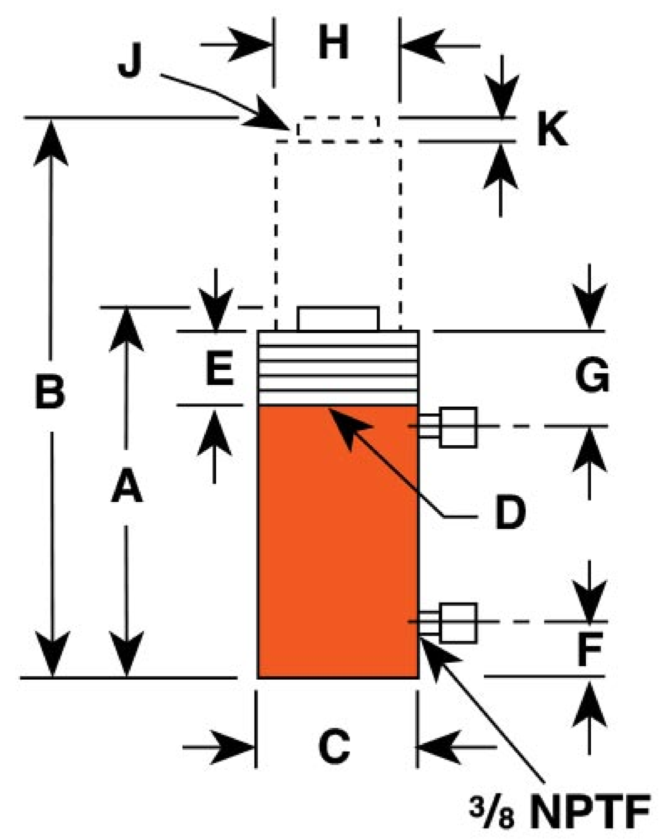
ASME B30.1
10,000 PSI

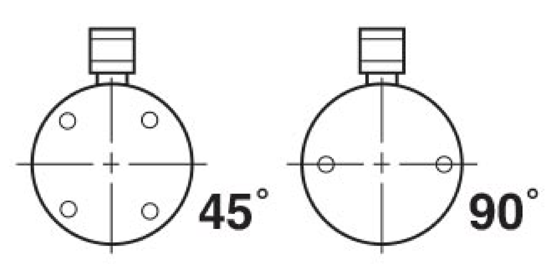
Features of RD Series Cylinders



Threads withstand full load.







Base mounting holes see page 229.

Cyl. Cap (tons) Push	Cyl. Cap (tons) Pull	Stroke (in.)	Order No.	Oil Capacity (cu.in.) Push	Oil Capacity (cu.in.) Pull	A Re-tracted Height (in.)	B Ex-tended Height (in.)	C Out-side Dia. (in.)	D Collar Collar Thread Size (in.)	E Thread Length Thread (in.)	F Base to Port trusion (in.)	G Cylinder Piston Top to Port (in.)	H Piston Rod Dia. Depth (in.)	J Rod Int. and (in.)	K Piston Rod Pro-trusion (in.)	Load Cap Dia. (in.)	Bore Dia. (in.)	Cyl. Eff. Area (sq.in.) Push	Cyl. Eff. Area (sq.in.) Pull	Int. Press. at Cap. Push	Int. Press. at Cap. Pull	Tons at 10,000 psi Push	Tons at 10,000 psi Pull	Prod. Wt. (lbs.)
10	4	6 1/4	**RD106**	13.9	5.5	11 11/16	17 15/16	3	2 3/4-12	1 5/8	1	2 1/2	1 5/16	1-8x1	1/4	1 3/8	1 11/16	2.23	0.88	8,943	9,055	11.2	4.4	22
10	4	10	**RD1010**	22.3	8.8	15 11/16	25 11/16	3	2 3/4-12	1 5/8	1	2 1/2	1 5/16	1-8x1	1/4	1 3/8	1 11/16	2.23	088	8,943	9,055	11.2	4.4	28
25	8	6 1/4	**RD256**	32.2	10.1	12 3/8	18 5/8	4	4-12	1 5/8	1	2 1/2	2 1/8	1 1/2-16x1	3/8	2 1/8	2 9/16	5.15	1.61	9,695	9,934	25.8	8.0	39.8
25	8	14 1/4	**RD2514**	73.5	22.9	20 3/8	34 5/8	4	4-12	1 5/8	1	2 1/2	2 1/8	1 1/2-16x1	3/8	2 1/8	2 9/16	5.15	1.61	9,695	9,934	25.8	8.0	65
55	28	6 1/4	**RD556**	69.0	35.2	12 31/32	19 7/32	5	5-12	1 5/8	1 5/16	2 1/2	2 5/8	1 11/16-8X1 3/16	5/8	2 5/8	3 3/4	11.04	5.63	9,959	9,941	55.2	28.2	61.4
55	28	13 1/8	**RD5513**	144.9	73.9	19 27/32	32 31/32	5	5-12	1 5/8	1 5/16	2 1/2	2 5/8	1 11/16-8X1 3/16	5/8	2 5/8	3 3/4	11.04	5.63	9,959	9,941	55.2	28.2	90
55	28	18 1/8	**RD5518**	200.0	102.0	25 7/8	44	5	5-12	1 5/8	1 5/16	2 1/2	2 5/8	1 11/16-8X1 3/16	5/8	2 5/8	3 3/4	11.04	5.63	9,959	9,941	55.2	28.2	142
80	44	13 1/8	**RD8013**	208.6	115.9	20 3/8	33 1/2	5 3/4	5 3/4-12	1 5/8	1 1/2	2 1/2	3	2-4 1/2x1 1/2	9/16	2 7/8	4 1/2	15.90	8.84	10,060	9,954	79.5	44.2	118
100	44	6 5/8	**RD1006**	136.7	58.5	13 25/32	20 13/32	6 7/8	6 7/8-12	1 5/8	1 1/2	2 1/2	3 7/8	2 3/4-12x1 5/32	5/8	3 7/8	5 1/8	20.63	8.84	9,695	9,959	103.1	44.2	126
100	44	13 1/8	**RD10013**	270.7	116.0	20 9/32	33 13/32	6 7/8	6 7/8-12	1 5/8	1 1/2	2 1/2	3 7/8	2 3/4-12x1 5/32	5/8	3 7/8	5 1/8	20.63	8.84	9,695	9,959	103.1	44.2	181
100	44	20 1/8	**RD10020**	415.2	178.0	30 1/2	50 5/8	6 7/8	6 7/8-12	1 5/8	2 25/32	2 1/2	3 7/8	2 3/4-12x1 5/32	5/8	3 7/8	5 1/8	20.63	8.84	9,695	9,959	103.1	44.2	260
150	73	6 5/8	**RD1506**	203.3	97.9	14 7/8	21 1/2	8 1/4	8 1/4-12	1 5/8	2	2 1/2	4 1/2	3 1/4-8x1 1/2	13/16	4 1/2	6 1/4	30.68	14.78	9,779	9,880	153.4	73.8	188
150	73	13 1/8	**RD15013**	402.7	193.9	21 3/8	34 1/2	8 1/4	8 1/4-12	1 5/8	2	2 1/2	4 1/2	3 1/4-8x1 1/2	13/16	4 1/2	6 1/4	30.68	14.78	9,779	9,880	153. 4	73.8	272
150	73	18 1/8	**RD15018**	556.8	267.8	26 17/32	44 21/32	8 1/4	8 1/4-12	1 5/8	2	2 1/2	4 1/2	3 1/4-8x1 1/2	3/4	4 1/2	6 1/4	30.68	14.78	9,779	9,880	153.4	73.8	376
200	113	6 5/8	**RD2006**	273.5	149.8	16	22 5/8	9 1/2	9 1/2-12	1 5/8	2 1/2	2 11/16	4 7/8	3 1/4-8x2 1/4	1 1/16	4 1/2	7 1/4	41.28	22.62	9,689	9,992	206.4	113 .1	262
200	113	13 1/8	**RD20013**	541.8	296.9	22 1/2	35 5/8	9 1/2	9 1/2-12	1 5/8	2 1/2	2 11/16	4 7/8	3 1/4-8x2 1/4	1 1/16	4 1/2	7 1/4	41.28	22.62	9,689	9,992	206.4	113.1	356
200	113	18 1/8	**RD20018**	748.2	409.9	28 1/2	46 5/8	9 1/2	9 1/2-12	1 5/8	2 1/2	2 11/16	4 7/8	3 1/4-8x2 1/4	1 1/16	4 1/2	7 1/4	41.28	22.62	9,689	9,992	206.4	113.1	442
300	147	6	**RD3006**	361.0	177.0	17 9/32	23 9/32	10 3/4	10 1/2-12	2 3/8	3 3/8	3 3/8	6 1/4	2 1/2-12x3 1/4	1 1/8	6 7/8	8 3/4	60.13	29.45	9,978	10,000	300.7	147.3	380
300	147	13	**RD30013**	782.0	383.0	24 13/16	37 13/16	10 3/4	10 1/2-12	2 3/8	3 3/8	3 3/8	6 1/4	2 1/2-12x3 1/4	1 1/8	6 7/8	8 3/4	60.13	29.45	9,978	10,000	300.7	147.3	654
400	186	6	**RD4006**	471.0	247.0	19 9/32	25 9/32	12 5/8	12 1/2-8	2 3/4	3 27/32	3 27/32	7 1/4	3-12x3 3/4	1 1/4	7 13/16	10	78.54	37.26	10,185	10,000	392.7	186.3	585
400	186	13	**RD40013**	1021.0	536.0	26 9/32	39 9/32	12 5/8	12 1/2-8	2 3/4	3 27/32	3 27/32	7 1/4	3-12x3 3/4	1 1/4	7 13/16	10	78.54	37.26	10,185	10,000	392.7	186.3	770
500	245	6	**RD5006**	596.0	295.0	20 9/16	26 9/16	14 3/4	14 3/4-8	3 1/8	4 5/32	4 5/32	8	3 1/4-12x4 1/4	1 1/2	8 1/2	11 1/4	99.40	49.14	10,060	10,000	497.0	245.6	819
500	245	13	**RD50013**	1292.0	639.0	27 9/16	40 9/16	14 3/4	14 3/4-8	3 1/8	4 5/32	4 5/32	8	3 1/4-12x4 1/4	1 1/2	8 1/2	11 1/4	99.40	49.14	10,060	10,000	497.0	245.6	1092