

Double Acting CYLINDERS RD SERIES

10-500 Ton

Double Acting,
Hydraulic-Return

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 resist 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.

CYLINDERS



CYLINDER/PUMP MATCHING

Page 6

ACCESSORY/REPAIR

Page 30

PUMP/CYLINDER SETS

Page 55

HYDRAULIC ACCESSORIES

Page 110

VALVES

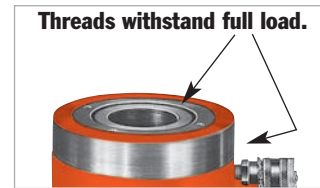
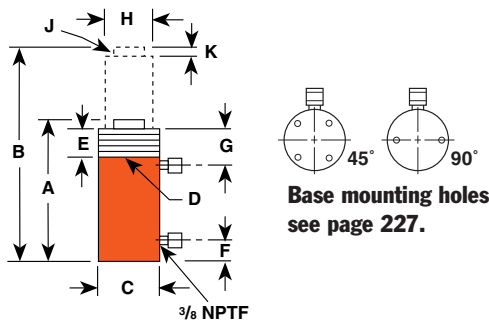
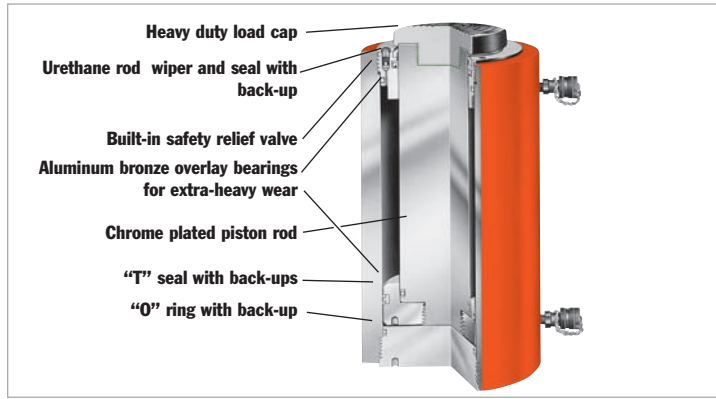
Page 122

TECH DATA

Page 227

Features of RD Series Cylinders

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



CYLINDERS

Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Capacity (cu.in.)		A	B	C	D	E	F	G	H	J	K	Load Cap.		Cyl. Eff. Area (sq.in.)		Int. Press. at Cap.		Tons at 10,000 psi		Prod. Wt. (lbs.)	
			Push	Pull											Push	Pull	Push	Pull	Push	Pull	Push	Pull		
			Push	Pull											Push	Pull	Push	Pull	Push	Pull	Push	Pull		
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 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 ¹ / ₄	1 ³ / ₈	1 ¹¹ / ₁₆	2.23	0.88	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 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 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 ³ / 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 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 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 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 / ₂ x1 ¹ / ₂	9 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 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 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	28 ⁹ / ₃₂	48 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 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 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 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 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 ⁷ / 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 ³ / ₄	1 ¹ / ₈	6 ¹ / 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 ³ / ₄	1 ¹ / ₈	6 ¹ / 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 ³ / 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 ³ / 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

CYLINDER/PUMP MATCHING

Page 6

ACCESSORY/REPAIR

Page 30

PUMP/CYLINDER SETS

Page 55

HYDRAULIC ACCESSORIES

Page 110

VALVES

Page 122

TECH DATA

Page 227