

Model Shown:

RD10013, RD556, RD300



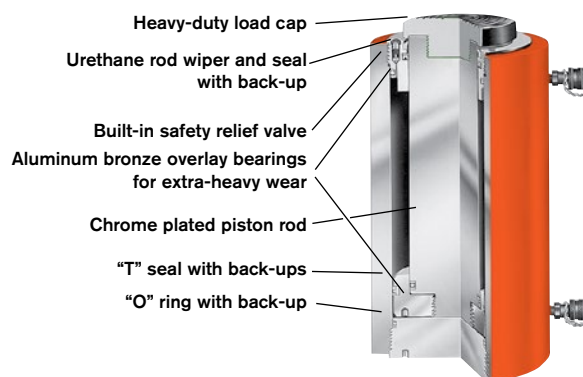
Features

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.
- Rod and collar threads are designed to 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.
- Complies with ANSI / ASME B30.1 Safety Standards.



RD Series Design Features



RD Series Performance

The table at right gives you an idea of what to expect when coupling RD series cylinders to a Power Team pump. Actual performance will vary according to job conditions.

Pump	Cylinder	Time to Extend Cylinder 1"	
		100 psi	10,000 psi
PE55	RD55	1.0 sec.	12.0 sec.
	RD100	1.8 sec.	22.5 sec.
	RD200	3.5 sec.	45.0 sec.
	RD400	7.2 sec.	85.0 sec.
PQ120 Series	RD200	3.4 sec.	20.6 sec.
	RD300	4.9 sec.	30.0 sec.
	RD400	6.4 sec.	39.0 sec.
	RD500	8.1 sec.	49.5 sec.
PE400 Series	RD300	3.0 sec.	8.5 sec.
	RD400	3.9 sec.	11.1 sec.
	RD500	4.9 sec.	14.1 sec.

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

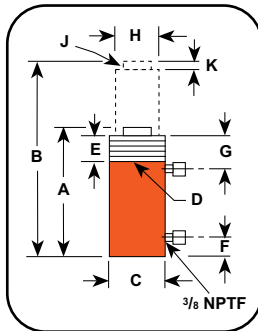
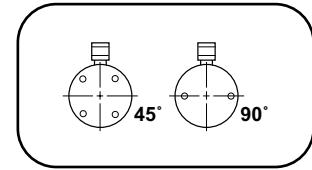


Technical Dimensions, Base Mounting Holes

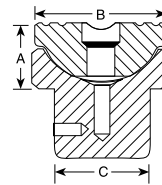
Cylinder Tonnage	10	25	55	80	100	150	200	300	400	500
# of Holes	2	4	4	4	4		4	4	4	6
Thread Size	3/8"-16	1/2"-13	5/8"-11	5/8"-11	3/4"-10	1"-8	1 1/4"-7	1 1/4"-7	1 1/2"-12	1 3/8"-12
Thread Depth (in)	0.63	0.75	0.88	0.88	1.00	1.00	1.25	1.75	1.88	2.00
Bolt Circle Diameter (in.)	2.00	2.75	3.50	4.50	5.50	6.00	6.50	6.25	7.25	8.00
Orientation*	90°	45°	45°	45°	45° †	45°	45°	Random	Random	Random

NOTE: Base mounting holes are standard on all RD cylinders. *Orientation of base mounting holes to coupler.

† Excludes RD10020.



Optional Swivel Load Caps Ordering Info



Cylinder Tonnage	Swivel Cap Order No.	Wt. (lbs.)	A (in.)	B (in.)	C (in.)
10	350144	0.8	0.88	1.44	0.86
25	350145	1.3	1.13	2.13	1.44
55	351325	4.2	2.44	2.50	1.55
100	351324	11.2	2.95	3.75	2.66
150/200	351334	12.8	2.63	4.38	3.06

Ordering Information

Cyl. Cap.	Stroke		Order No.	Oil Cap.		A	B	C	D	E	F	G	H	J	K	Load Cap. Dia.	Bore Dia.	Cylinder Effective Area		Int. Press. at Cap.		Tons at 10,000		Prod. Wt.
						Re-tracted Height	Ex-tended Height	Outside Dia.	Collar Thread Size	Thread Length	Base to Port	Cyl. Piston Top to Port	Piston Rod Dia.	Rod Int. Thread & Depth	Piston Rod Protru-sion									
	(tons)	(in.)		(cu.in)		(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(sq. in.)	(psi)	(tons)	(lbs.)			
		Push	Pull	Push	Pull													Push	Pull	Push	Pull	Push	Pull	
10	4	6.25	RD106	13.9	5.5	11.69	17.94	3.00	2 3/4 - 12	1.63	1.00	2.50	0.94	1-8 x 1	0.25	1.38	1.69	2.23	0.88	8,943	9,055	11.2	4.4	22.0
	4	10.00	RD1010	22.3	8.8	15.69	25.69	3.00	2 3/4 - 12	1.63	1.00	2.50	0.94	1-8 x 1	0.25	1.38	1.69	2.23	0.88	8,943	9,055	11.2	4.4	28.0
25	8	6.25	RD256	32.2	10.1	12.38	18.63	4.00	4 - 12	1.63	1.00	2.50	2.13	1 1/2-16 x 1	0.38	2.13	2.56	5.15	1.61	9,695	9,934	25.8	8.0	39.8
	8	14.25	RD2514	73.5	22.9	20.38	34.63	4.00	4 - 12	1.63	1.00	2.50	2.13	1 1/2-16 x 1	0.38	2.13	2.56	5.15	1.61	9,695	9,934	25.8	8.0	65.0
55	28	6.25	RD556	69.0	35.2	12.97	19.22	5.00	5 - 12	1.63	1.31	2.50	2.63	1 11/16-8 x 1 3/16	0.63	2.63	3.75	11.04	5.63	9,959	9,941	55.2	28.2	61.4
	28	13.13	RD5513	144.9	73.9	19.84	32.97	5.00	5 - 12	1.63	1.29	2.50	2.63	1 11/16-8 x 1 3/16	0.63	2.63	3.75	11.04	5.63	9,959	9,941	55.2	28.2	90.0
80	28	18.13	RD5518	200.0	102.0	25.88	44.00	5.00	5 - 12	1.63	1.28	2.50	2.63	1 11/16-8 x 1 3/16	0.63	2.63	3.75	11.04	5.63	9,959	9,941	55.2	28.2	142.0
	44	13.13	RD8013	208.6	115.9	20.38	33.50	5.75	5 3/4 - 12	1.63	1.50	2.50	3.00	2-4 1/2 x 1 1/2	0.56	2.88	4.50	15.9	8.84	10,060	9,954	79.5	44.2	118.0
100	44	6.63	RD1006	136.7	58.5	13.78	20.41	6.88	6 7/8 - 12	1.63	1.50	2.50	3.88	2 3/4-12 x 1 5/32	0.63	3.88	5.13	20.63	8.84	9,695	9,959	103.1	44.2	126.0
	44	13.13	RD10013	270.7	116.0	20.28	33.41	6.88	6 7/8 - 12	1.63	1.50	2.50	3.88	2 3/4-12 x 1 5/32	0.63	3.88	5.13	20.63	8.84	9,695	9,959	103.1	44.2	181.0
150	44	20.13	RD10020	415.2	178.0	30.50	50.63	6.88	6 7/8 - 12	1.63	2.78	2.50	3.88	2 3/4-12 x 1 5/32	0.63	3.88	5.13	20.63	8.84	9,695	9,959	103.1	44.2	260.0
	73	6.63	RD1506	203.3	97.9	14.88	21.50	8.25	8 1/4 - 12	1.63	2.00	2.50	4.50	3 1/4-8 x 1 1/2	0.81	4.50	6.25	30.68	14.78	9,779	9,880	153.4	73.8	188.0
200	73	13.13	RD15013	402.7	193.9	21.38	34.50	8.25	8 1/4 - 12	1.63	2.00	2.50	4.50	3 1/4-8 x 1 1/2	0.81	4.50	6.25	30.68	14.78	9,779	9,880	153.4	73.8	272.0
	73	18.13	RD15018	556.8	267.8	26.53	44.66	8.25	8 1/4 - 12	1.63	2.00	2.50	4.50	3 1/4-8 x 1 1/2	0.75	4.50	6.25	30.68	14.78	9,779	9,880	153.4	73.8	376.0
300	113	6.63	RD2006	273.5	149.8	16.00	22.63	9.50	9 1/2 - 12	1.63	2.50	2.69	4.88	3 1/4-8 x 2 1/4	1.06	4.50	7.25	41.28	22.62	9,689	9,992	206.4	113.1	262.0
	113	13.13	RD20013	541.8	296.9	22.50	35.63	9.50	9 1/2 - 12	1.63	2.33	2.69	4.88	3 1/4-8 x 2 1/4	1.06	4.50	7.25	41.28	22.62	9,689	9,992	206.4	113.1	356.0
400	113	18.13	RD20018	748.2	409.9	28.50	46.63	9.50	9 1/2 - 12	1.63	2.25	2.69	4.88	3 1/4-8 x 2 1/4	1.06	4.50	7.25	41.28	22.62	9,689	9,992	206.4	113.1	442.0
	147	6.00	RD3006	361.0	177.0	17.28	23.28	10.75	10 1/2 - 12	2.38	3.38	3.38	6.25	2 1/2-12 x 3 1/4	1.13	6.88	8.75	60.13	29.45	9,978	10,000	300.7	147.3	380.0
500	147	13.00	RD30013	782.0	383.0	24.81	37.81	10.75	10 1/2 - 12	2.38	3.38	3.38	6.25	2 1/2-12 x 3 1/4	1.13	6.88	8.75	60.13	29.45	9,978	10,000	300.7	147.3	654.0
	186	6.00	RD4006	471.0	247.0	19.28	25.28	12.63	12 1/2 - 8	2.75	3.84	3.84	7.25	3-12 x 3 3/4	1.25	7.81	10.00	78.54	37.26	10,185	10,000	392.7	186.3	585.0
	186	13.00	RD40013	1021.0	536.0	26.28	39.28	12.63	12 1/2 - 8	2.75	3.82	3.84	7.25	3-12 x 3 3/4	1.25	7.81	10.00	78.54	37.26	10,185	10,000	392.7	186.3	770.0
	245	6.00	RD5006	596.0	295.0	20.56	26.56	14.75	14 3/4 - 8	3.13	4.16	4.16	8.00	3 1/4-12 x 4 1/4	1.5	8.50	11.25	99.40	49.14	10,060	10,000	497.0	245.6	819.0
	245	13.00	RD50013	1292.0	639.0	27.56	40.56	14.75	14 3/4 - 8	3.13	4.16	4.16	8.00	3 1/4-12 x 4 1/4	1.5	8.50	11.25	99.40	49.14	10,060	10,000	497.0	245.6	1092.0