

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

ASME B30.1
10,000 PSI

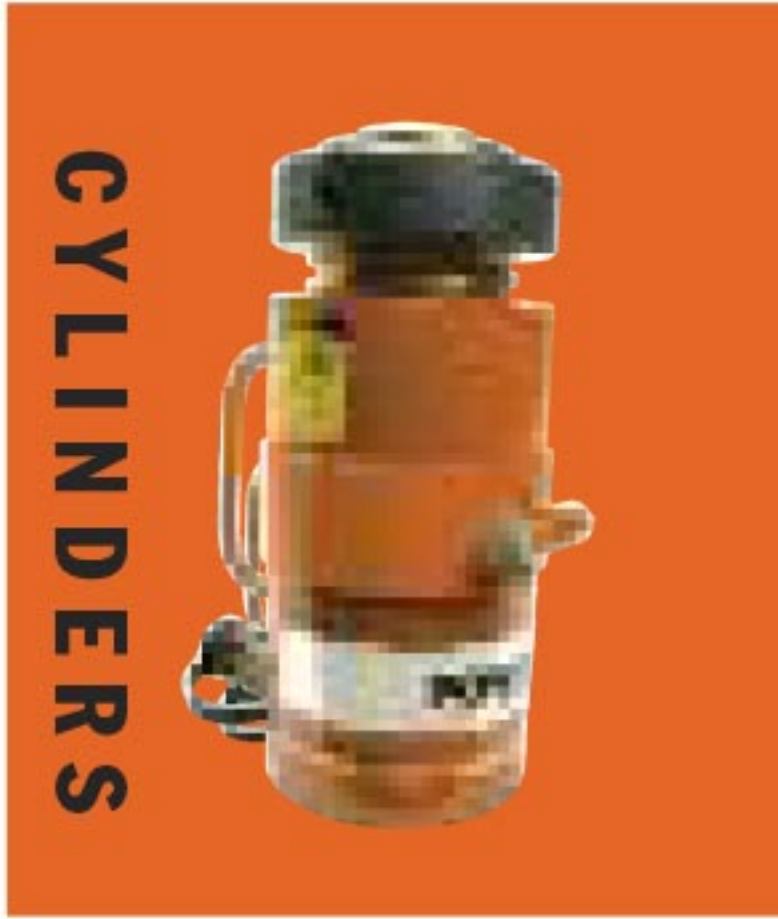
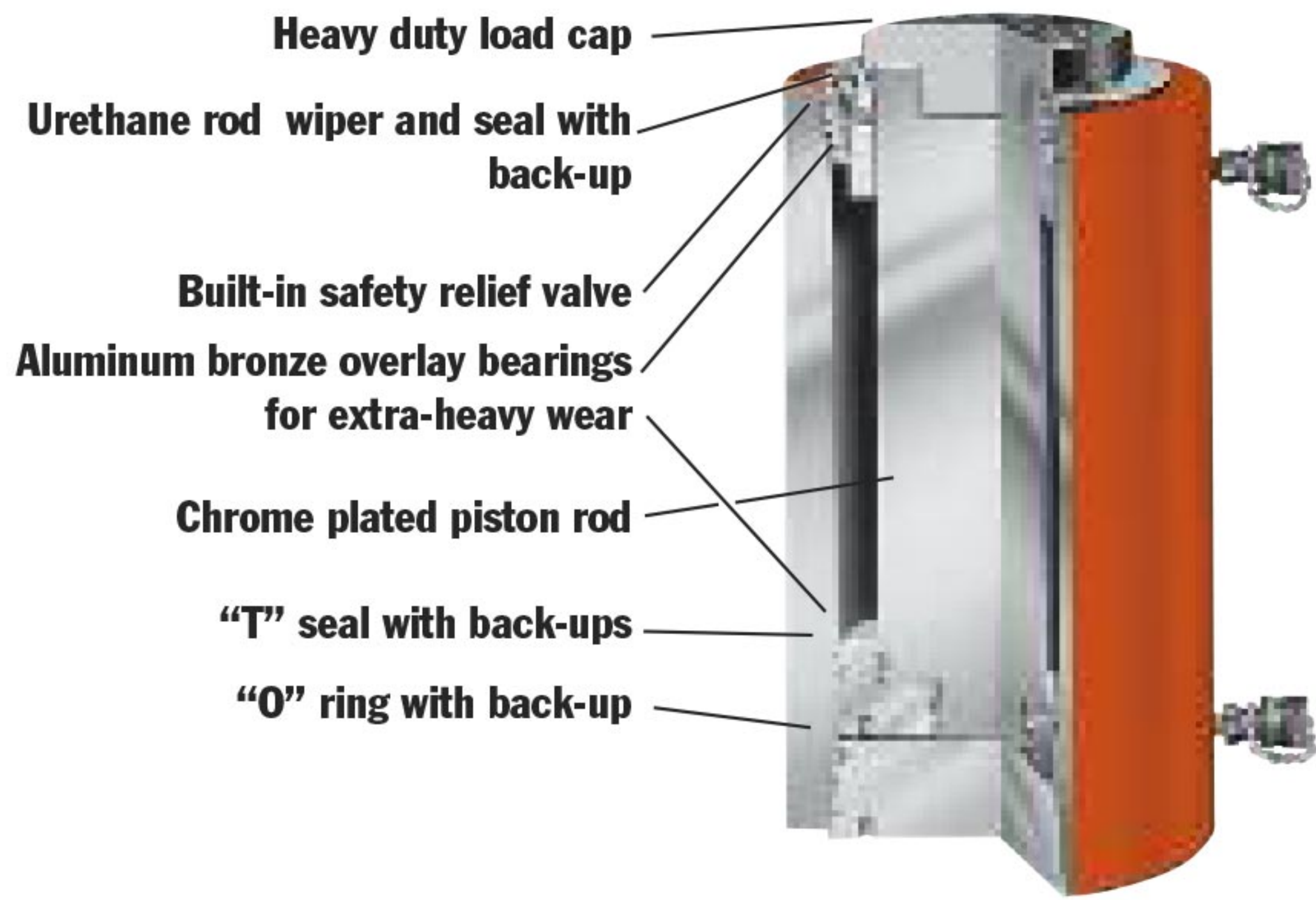


RD300

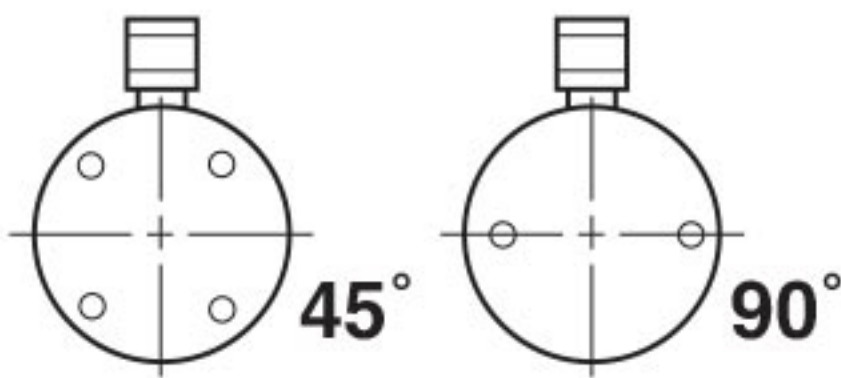
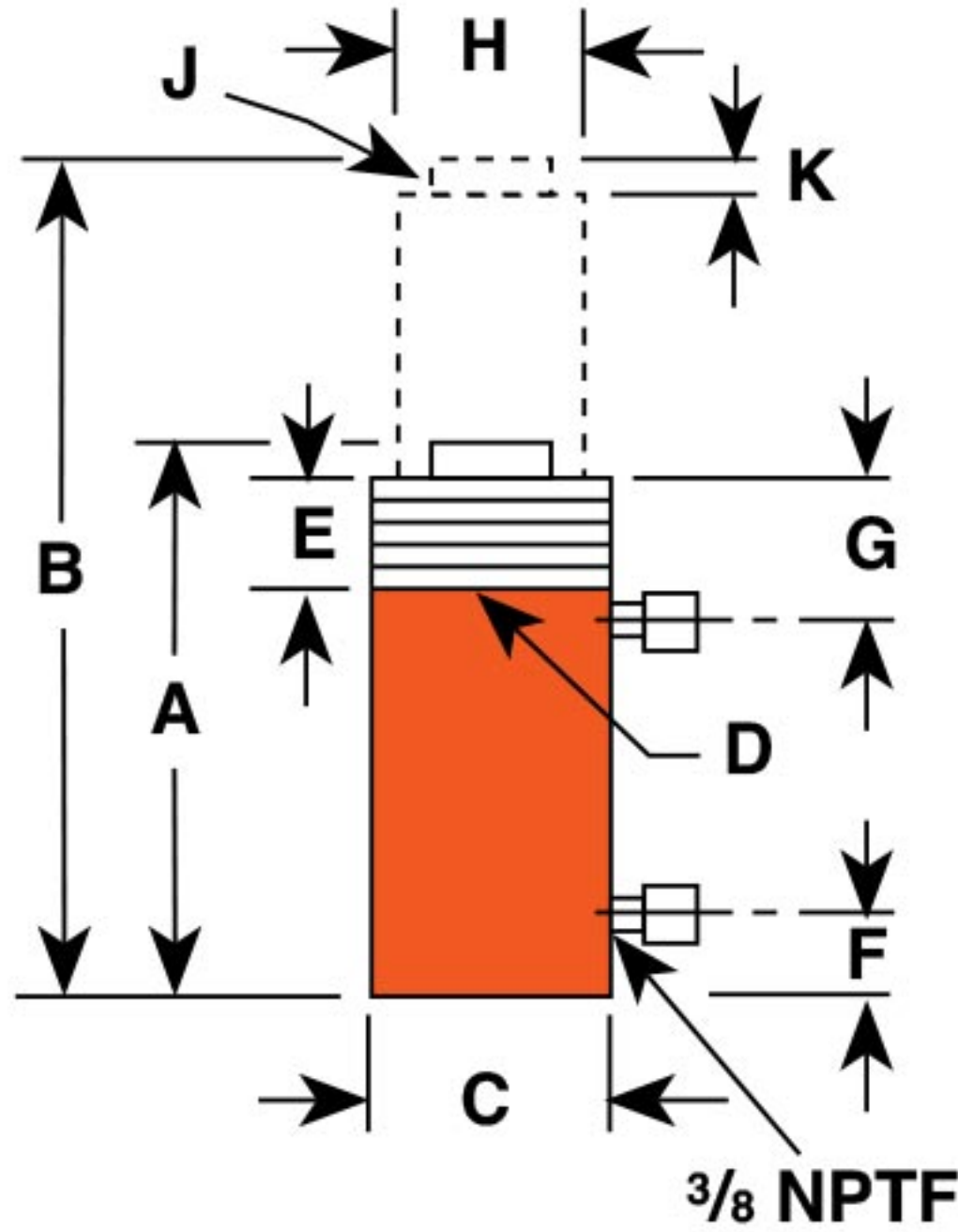
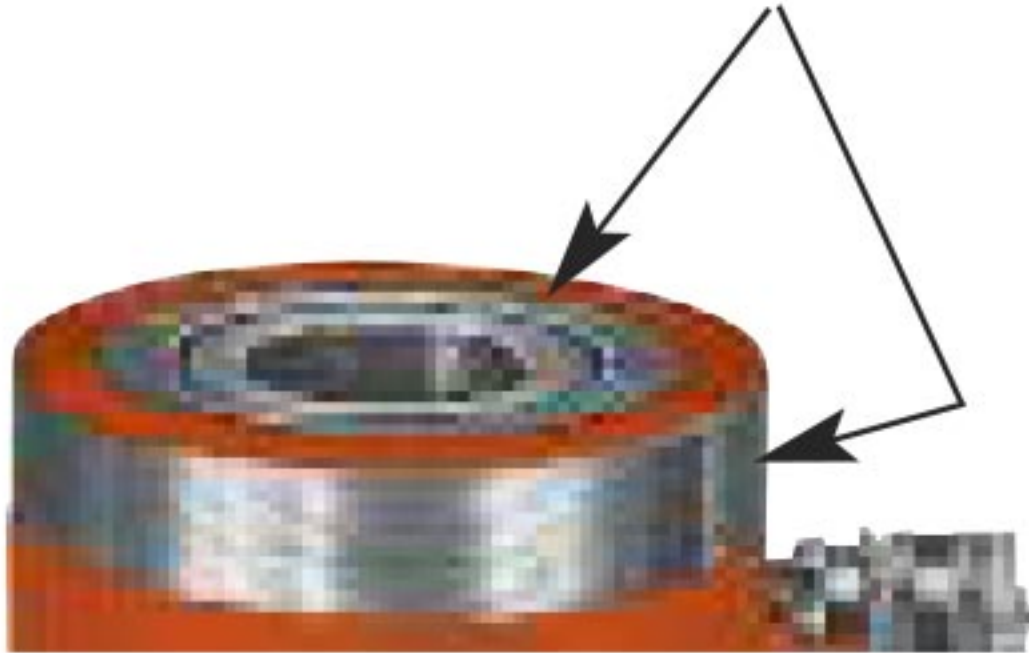


RD556

Features of RD Series Cylinders



Threads withstand full load.



Base mounting holes
see page 229.

		Stroke (in.)	Order No.	Oil Capacity (cu.in.)		A	B	C	D	E	F	G	H	J	K										
Cyl. Cap (tons)	Push			Pull	Re- tracted Height (in.)	Ex- tended Height (in.)	Out- side Dia. (in.)	Collar Collar Thread Size (in.)	Thread Length Thread (in.)	Base to Port trusion (in.)	Cylinder Top to Port (in.)	Piston Rod Dia. (in.)	Rod Int. and (in.)	Piston Rod Pro- trusion (in.)	Load Cap Dia. (in.)	Bore Dia. (in.)	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
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 / ₂ x1 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	