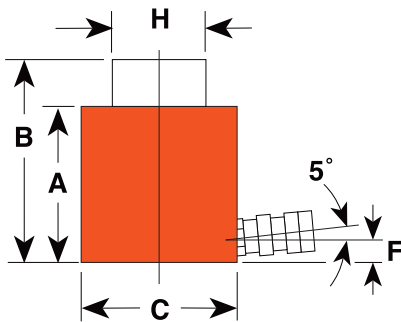


Shorty CYLINDERS RSS SERIES

10-250 Ton Single-Acting, Spring-Return &

- Bronze plated piston rods and gland nuts resist scoring and corrosion.
- Heavy duty return spring (except for double-acting models) provides fast piston return & low collapsed height.
- Coupler on 10 thru 50 ton models is angled upward 5° for added clearance.
- Grooved piston top keeps load from sliding.
- Cylinders can be "dead-ended" at full capacity.
- Removable carrying handles on 100 ton and 250 ton models.



RSS302

ASME B30.1
700 bar

					A	B	C	F	H				
					Retracted Height (mm)	Extended Height (mm)	Outside Dia. (mm)	Base to Port (mm)	Piston Rod Dia. (mm)				
Cyl Capacity (Tons)	Stroke (mm)	Order No.	Oil Cap. (cm ³)	Push Return						Bore Dia. (mm)	Cylinder Effective Area (cm ²)	Metric Tons at 700 (bar)	Weight (kg)
10	38,1	RSS101	56	–	88,9	127,0	69,9	15,9	38,1	42,9	14,4	10,2	2,7
20	44,5	RSS202	126	–	95,3	139,7	90,5	15,9	54,8	60,3	28,6	20,0	4,5
30	61,9	RSS302	259	–	117,5	179,4	101,6	15,9	63,5	73,0	41,9	29,5	6,7
50	60,3	RSS502	374	–	127,0	187,3	123,8	19,1	79,4	88,9	62,0	43,6	10,5
100	57,2	RSS1002	725	–	139,7	196,9	168,3	23,8	111,1	127,0	126,6	89,1	21,4
100	38,1	RSS1002†	482	212	144,5	182,6	174,6	23,8 *	95,3	127,0	126,6	89,1	24,7
250	76,2	RSS2503	2,469	–	290,5	366,7	250,8	46,0	139,7	203,2	323,9	227,8	99,7

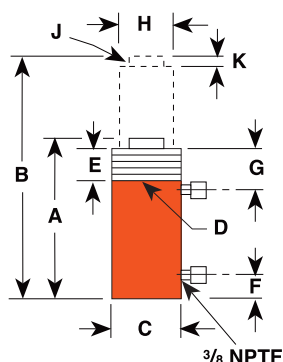
* Cylinder top to port is 40 mm

† Double-acting

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
- Aluminium bronze overlay bearing 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
- Built-in safety relief valve prevents over-pressurisation of the retract circuit.
- Feature mounting holes and collar threads.



RD10013 ASME B30.1 700 bar

															A		B		C		D		E		F		G		H		J		K							
Cyl. Cap. (tons)	Stroke (mm)	Order No.	Oil Capacity (cm ³)		Retracted Height (mm)	Ex-tended Height (mm)	Out-side Dia. (mm)	Collar Thread Size (in.)	Thread Length (mm)	Base to Port Trusion (mm)	Cylinder Piston Top to Port (mm)	Piston Rod Dia. (mm)	Rod Int. (in) and Depth (mm)	Piston Rod Pro-trusion (mm)	Load Cap Dia. (mm)	Bore Dia. (mm)	Cyl. Eff. Area (cm ²)	Metric Tons at 700 bar		Weight (kg)																				
			Push	Pull														Push	Pull																					
10	4	158.8	RD106	228	90	296.9	455.6	76.2	2 1/2-12	41.3	25.4	63.5	33.3	1.8 x 25.4	6.4	34.9	42.9	14.4	5.7	10.2	4.0	10.0																		
10	4	254.0	RD1010	366	144	398.5	652.5	76.2	2 1/2-12	41.3	25.4	63.5	33.3	1.8 x 25.4	6.4	34.9	42.9	14.4	5.7	10.2	4.0	12.7																		
25	8	158.8	RD256	528	166	314.3	473.1	101.6	4 1/2	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	23.4	7.3	18.1																		
25	8	362.0	RD2514	1,205	376	517.5	879.5	101.6	4 1/2	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	23.4	7.3	29.5																		
55	28	158.8	RD556	1,132	577	329.4	488.2	127.0	5 1/2	41.3	33.3	63.5	66.7	1 1/2-18 x 30.2	15.9	66.7	95.3	71.2	36.3	50.1	25.6	27.9																		
55	28	333.4	RD5513	2,376	1,212	504.0	837.4	127.0	5 1/2	41.3	33.3	63.5	66.7	1 1/2-18 x 30.2	15.9	66.7	95.3	71.2	36.3	50.1	25.6	40.9																		
55	28	460.4	RD5518	3,280	1,673	657.2	1,117.6	127.0	5 1/2	41.3	33.3	63.5	66.7	1 1/2-18 x 30.2	15.9	66.7	95.3	71.2	36.3	50.1	25.6	64.5																		
80	44	363.0	RD8013	3,421	1,901	517.5	850.9	146.1	5 1/2-12	41.3	38.1	63.5	76.2	2 1/4 x 38.1	14.3	73.0	114.3	102.6	57.0	72.1	40.1	53.6																		
100	44	168.3	RD1006	2,242	959	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	93.5	40.1	57.2																		
100	44	333.4	RD10013	4,440	1,902	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	93.5	40.1	82.2																		
100	44	511.2	RD10020	6,809	2,919	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	93.5	40.1	118.0																		
150	73	168.3	RD1506	3,334	1,606	377.8	546.1	209.6	8 1/2-12	41.3	50.8	63.5	114.3	3 1/8 x 38.1	20.6	114.3	158.8	197.9	95.3	139.1	66.9	85.4																		
150	73	333.4	RD15013	6,604	3,180	542.9	876.3	209.6	8 1/2-12	41.3	50.8	63.5	114.3	3 1/8 x 38.1	20.6	114.3	158.8	197.9	95.3	139.1	66.9	123.5																		
150	73	460.4	RD15018	9,132	4,392	673.9	1,134.3	209.6	8 1/2-12	41.3	50.8	63.5	114.3	3 1/8 x 38.1	19.1	114.3	158.8	197.9	95.3	139.1	66.9	170.7																		
200	113	168.3	RD2006	4,485	2,457	406.4	574.7	241.3	9 1/2-12	41.3	63.5	68.3	123.8	3 1/8 x 57.1	27.0	114.3	184.2	266.3	145.9	187.2	102.6	118.9																		
200	113	333.4	RD20013	8,886	4,869	571.5	904.9	241.3	9 1/2-12	41.3	63.5	68.3	123.8	3 1/8 x 57.1	27.0	114.3	184.2	266.3	145.9	187.2	102.6	161.6																		
200	113	460.4	RD20018	12,270	6,722	723.9	1,184.3	241.3	9 1/2-12	41.3	63.5	68.3	123.8	3 1/8 x 57.1	27.0	114.3	184.2	266.3	145.9	187.2	102.6	200.7																		
300	147	152.4	RD3006	5,920	2,903	488.9	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	272.7	133.6	172.5																		
300	147	330.2	RD30013	12,825	6,281	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	272.7	133.6	296.9																		
400	186	152.4	RD4006	7,724	4,051	489.7	642.1	320.7	12 1/8-8	69.9	97.6	97.6	184.2	3 1/2 x 92.2	31.8	198.4	254.0	506.6	240.3	356.2	169.0	265.6																		
400	186	330.2	RD40013	16,744	8,790	667.5	997.7	320.7	12 1/8-8	69.9	97.6	97.6	184.2	3 1/2 x 92.2	31.8	198.4	254.0	506.6	240.3	356.2	169.0	349.6																		
500	245	152.4	RD5006	9,774	4,838	522.3	674.7	374.7	14 1/8-8	79.4	105.6	105.6	203.2	3 3/4-12 x 107.9	38.1	215.9	285.8	641.1	317.0	450.8	222.8	371.8																		
500	245	330.2	RD50013	21,189	10,480	700.1	1,030.3	374.7	14 1/8-8	79.4	105.6	105.6	203.2	3 3/4-12 x 107.9	38.1	215.9	285.8	641.1	317.0	450.8	222.8	495.8																		