

# 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



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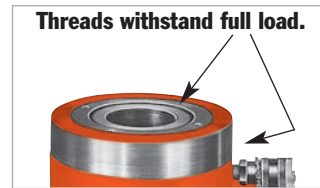
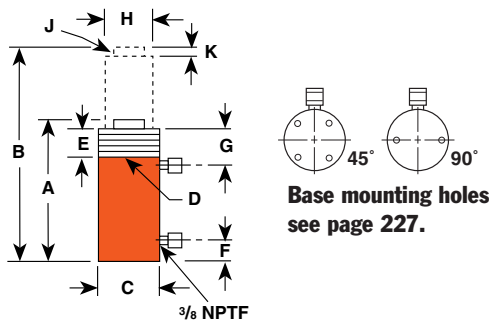
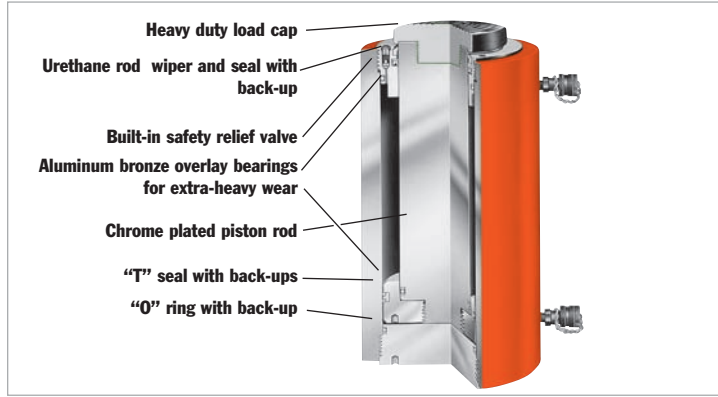
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## Features of RD Series Cylinders

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 <sup>1</sup> / <sub>4</sub>	<b>RD106</b>	13.9	5.5	11 <sup>11</sup> / <sub>16</sub>	17 <sup>15</sup> / <sub>16</sub>	3	2 <sup>3</sup> / <sub>4</sub> -12	1 <sup>5</sup> / <sub>8</sub>	1	2 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>16</sub>	1-8x1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	2.23	0.88	8,943	9,055	11.2	4.4	22
10	4	10	<b>RD1010</b>	22.3	8.8	15 <sup>11</sup> / <sub>16</sub>	25 <sup>11</sup> / <sub>16</sub>	3	2 <sup>3</sup> / <sub>4</sub> -12	1 <sup>5</sup> / <sub>8</sub>	1	2 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>16</sub>	1-8x1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	2.23	0.88	8,943	9,055	11.2	4.4	28
25	8	6 <sup>1</sup> / <sub>4</sub>	<b>RD256</b>	32.2	10.1	12 <sup>3</sup> / <sub>8</sub>	18 <sup>5</sup> / <sub>8</sub>	4	4-12	1 <sup>5</sup> / <sub>8</sub>	1	2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub> -16x1	3 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>9</sup> / <sub>16</sub>	5.15	1.61	9,695	9,934	25.8	8.0	39.8
25	8	14 <sup>1</sup> / <sub>4</sub>	<b>RD2514</b>	73.5	22.9	20 <sup>3</sup> / <sub>8</sub>	34 <sup>5</sup> / <sub>8</sub>	4	4-12	1 <sup>5</sup> / <sub>8</sub>	1	2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub> -16x1	3 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>9</sup> / <sub>16</sub>	5.15	1.61	9,695	9,934	25.8	8.0	65
55	28	6 <sup>1</sup> / <sub>4</sub>	<b>RD556</b>	69.0	35.2	12 <sup>31</sup> / <sub>32</sub>	19 <sup>7</sup> / <sub>32</sub>	5	5-12	1 <sup>5</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub> -8x1 <sup>3</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	11.04	5.63	9,959	9,941	55.2	28.2	61.4
55	28	13 <sup>1</sup> / <sub>8</sub>	<b>RD5513</b>	144.9	73.9	19 <sup>27</sup> / <sub>32</sub>	32 <sup>31</sup> / <sub>32</sub>	5	5-12	1 <sup>5</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub> -8x1 <sup>3</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	11.04	5.63	9,959	9,941	55.2	28.2	90
55	28	18 <sup>1</sup> / <sub>8</sub>	<b>RD5518</b>	200.0	102.0	25 <sup>7</sup> / <sub>8</sub>	44	5	5-12	1 <sup>5</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub> -8x1 <sup>3</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	11.04	5.63	9,959	9,941	55.2	28.2	142
80	44	13 <sup>1</sup> / <sub>8</sub>	<b>RD8013</b>	208.6	115.9	20 <sup>3</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>4</sub>	5 <sup>3</sup> / <sub>4</sub> -12	1 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	3	2-4 <sup>1</sup> / <sub>2</sub> x1 <sup>1</sup> / <sub>2</sub>	9 <sup>9</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	15.90	8.84	10,060	9,954	79.5	44.2	118
100	44	6 <sup>5</sup> / <sub>8</sub>	<b>RD1006</b>	136.7	58.5	13 <sup>25</sup> / <sub>32</sub>	20 <sup>13</sup> / <sub>32</sub>	6 <sup>7</sup> / <sub>8</sub>	6 <sup>7</sup> / <sub>8</sub> -12	1 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	3 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub> -12x1 <sup>5</sup> / <sub>32</sub>	5 <sup>5</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>	20.63	8.84	9,695	9,959	103.1	44.2	126
100	44	13 <sup>1</sup> / <sub>8</sub>	<b>RD10013</b>	270.7	116.0	20 <sup>9</sup> / <sub>32</sub>	33 <sup>13</sup> / <sub>32</sub>	6 <sup>7</sup> / <sub>8</sub>	6 <sup>7</sup> / <sub>8</sub> -12	1 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	3 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub> -12x1 <sup>5</sup> / <sub>32</sub>	5 <sup>5</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>	20.63	8.84	9,695	9,959	103.1	44.2	181
100	44	20 <sup>1</sup> / <sub>8</sub>	<b>RD10020</b>	415.2	178.0	28 <sup>9</sup> / <sub>32</sub>	48 <sup>13</sup> / <sub>32</sub>	6 <sup>7</sup> / <sub>8</sub>	6 <sup>7</sup> / <sub>8</sub> -12	1 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	3 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub> -12x1 <sup>5</sup> / <sub>32</sub>	5 <sup>5</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>	20.63	8.84	9,695	9,959	103.1	44.2	260
150	73	6 <sup>5</sup> / <sub>8</sub>	<b>RD1506</b>	203.3	97.9	14 <sup>7</sup> / <sub>8</sub>	21 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub> -12	1 <sup>5</sup> / <sub>8</sub>	2	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>4</sub> -8x1 <sup>1</sup> / <sub>2</sub>	13 <sup>13</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>	30.68	14.78	9,779	9,880	153.4	73.8	188
150	73	13 <sup>1</sup> / <sub>8</sub>	<b>RD15013</b>	402.7	193.9	21 <sup>3</sup> / <sub>8</sub>	34 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub> -12	1 <sup>5</sup> / <sub>8</sub>	2	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>4</sub> -8x1 <sup>1</sup> / <sub>2</sub>	13 <sup>13</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>	30.68	14.78	9,779	9,880	153.4	73.8	272
150	73	18 <sup>1</sup> / <sub>8</sub>	<b>RD15018</b>	556.8	267.8	26 <sup>17</sup> / <sub>32</sub>	44 <sup>21</sup> / <sub>32</sub>	8 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub> -12	1 <sup>5</sup> / <sub>8</sub>	2	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>4</sub> -8x1 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>	30.68	14.78	9,779	9,880	153.4	73.8	376
200	113	6 <sup>5</sup> / <sub>8</sub>	<b>RD2006</b>	273.5	149.8	16	22 <sup>5</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>2</sub> -12	1 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>11</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>4</sub> -8x2 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>4</sub>	41.28	22.62	9,689	9,992	206.4	113.1	262
200	113	13 <sup>1</sup> / <sub>8</sub>	<b>RD20013</b>	541.8	296.9	22 <sup>1</sup> / <sub>2</sub>	35 <sup>5</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>2</sub> -12	1 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>11</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>4</sub> -8x2 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>4</sub>	41.28	22.62	9,689	9,992	206.4	113.1	356
200	113	18 <sup>1</sup> / <sub>8</sub>	<b>RD20018</b>	748.2	409.9	28 <sup>1</sup> / <sub>2</sub>	46 <sup>5</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>2</sub> -12	1 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>11</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>4</sub> -8x2 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>4</sub>	41.28	22.62	9,689	9,992	206.4	113.1	442
300	147	6	<b>RD3006</b>	361.0	177.0	17 <sup>7</sup> / <sub>32</sub>	23 <sup>9</sup> / <sub>32</sub>	10 <sup>3</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>2</sub> -12	2 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub> -12x3 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	60.13	29.45	9,978	10,000	300.7	147.3	380
300	147	13	<b>RD30013</b>	782.0	383.0	24 <sup>13</sup> / <sub>16</sub>	37 <sup>13</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>2</sub> -12	2 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub> -12x3 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	60.13	29.45	9,978	10,000	300.7	147.3	654
400	186	6	<b>RD4006</b>	471.0	247.0	19 <sup>9</sup> / <sub>32</sub>	25 <sup>9</sup> / <sub>32</sub>	12 <sup>5</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>2</sub> -8	2 <sup>3</sup> / <sub>4</sub>	3 <sup>27</sup> / <sub>32</sub>	3 <sup>27</sup> / <sub>32</sub>	7 <sup>1</sup> / <sub>4</sub>	3-12x3 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	7 <sup>13</sup> / <sub>16</sub>	10	78.54	37.26	10,185	10,000	392.7	186.3	585
400	186	13	<b>RD40013</b>	1021.0	536.0	26 <sup>9</sup> / <sub>32</sub>	39 <sup>9</sup> / <sub>32</sub>	12 <sup>5</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>2</sub> -8	2 <sup>3</sup> / <sub>4</sub>	3 <sup>27</sup> / <sub>32</sub>	3 <sup>27</sup> / <sub>32</sub>	7 <sup>1</sup> / <sub>4</sub>	3-12x3 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	7 <sup>13</sup> / <sub>16</sub>	10	78.54	37.26	10,185	10,000	392.7	186.3	770
500	245	6	<b>RD5006</b>	596.0	295.0	20 <sup>9</sup> / <sub>16</sub>	26 <sup>9</sup> / <sub>16</sub>	14 <sup>3</sup> / <sub>4</sub>	14 <sup>3</sup> / <sub>4</sub> -8	3 <sup>3</sup> / <sub>8</sub>	4 <sup>5</sup> / <sub>32</sub>	4 <sup>5</sup> / <sub>32</sub>	8	3 <sup>1</sup> / <sub>4</sub> -12x4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>4</sub>	99.40	49.14	10,060	10,000	497.0	245.6	819
500	245	13	<b>RD50013</b>	1292.0	639.0	27 <sup>9</sup> / <sub>16</sub>	40 <sup>9</sup> / <sub>16</sub>	14 <sup>3</sup> / <sub>4</sub>	14 <sup>3</sup> / <sub>4</sub> -8	3 <sup>3</sup> / <sub>8</sub>	4 <sup>5</sup> / <sub>32</sub>	4 <sup>5</sup> / <sub>32</sub>	8	3 <sup>1</sup> / <sub>4</sub> -12x4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>4</sub>	99.40	49.14	10,060	10,000	497.0	245.6	1092

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