



Double Acting CYLINDERS RD SERIES

10-500 Ton Double Acting, Hydraulic-Return

High tonnage premium design
for high cycle life.

CYLINDERS

- 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.



RD556

RD10013

ASME B30.1
700 BAR

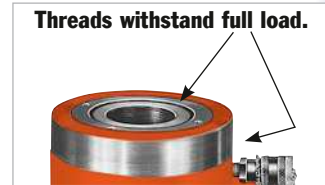
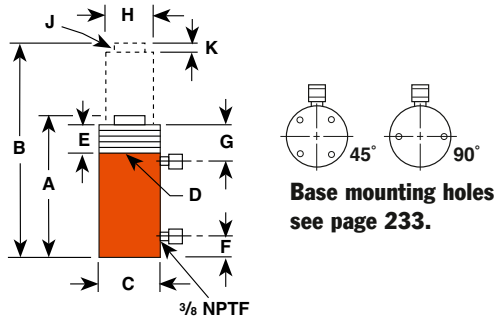
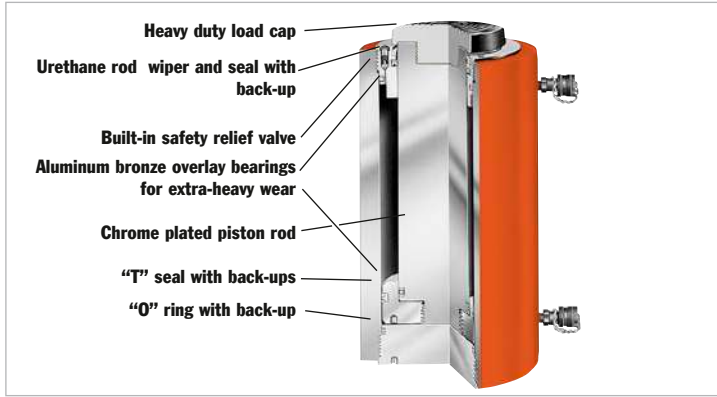
RD30013



Four special ordered 500 ton, 610 mm stroke cylinders used in a swaging press for crimping 89 mm wire rope.



Features of RD Series Cylinders



CYLINDERS

| Cyl. Cap (tons) | Stroke (mm) | Order No. | Oil Capacity (cm ³) | | A | B | C | D | E | F | G | H | J | K | Load Cap Dia. (mm) | Bore Dia. (mm) | Cyl. Eff. Area (cm ²) | | Metric Tons at 700 bar | | Weight (kg) | |
|-----------------|-------------|-----------|---------------------------------|-----------------------|-------|-------|--------|-------|-----------|------|-------|-------|-------|------------------|--------------------|----------------|-----------------------------------|-------------------|------------------------|-------------------|-------------|-------------------------|
| | | | Push | Pull | | | | | | | | | | | | | Push | Pull | Push | Pull | | |
| | | | Re-tracted Height (mm) | Ex-tended Height (mm) | | | | | | | | | | | | | Out-side Dia. (mm) | Collar Size (in.) | Thread Length (mm) | Port trusion (mm) | | Piston Top to Port (mm) |
| 10 | 4 | 158.8 | RD106 | 228 | 90 | 296.9 | 455.6 | 76.2 | 2 3/4-12 | 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 3/4-12 | 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 | 4-12 | 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 | 1205 | 376 | 517.5 | 879.5 | 101.6 | 4-12 | 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 | 1132 | 577 | 329.4 | 488.2 | 127.0 | 5-12 | 41.3 | 33.3 | 63.5 | 66.7 | 1 1/2-16 x 30.2 | 15.9 | 66.7 | 95.3 | 71.2 | 36.3 | 50.1 | 25.6 | 27.9 |
| 55 | 28 | 333.4 | RD5513 | 2376 | 1212 | 504.0 | 837.4 | 127.0 | 5-12 | 41.3 | 33.3 | 63.5 | 66.7 | 1 1/2-16 x 30.2 | 15.9 | 66.7 | 95.3 | 71.2 | 36.3 | 50.1 | 25.6 | 40.9 |
| 55 | 28 | 460.4 | RD5518 | 3280 | 1673 | 657.2 | 1117.6 | 127.0 | 5-12 | 41.3 | 33.3 | 63.5 | 66.7 | 1 1/2-16 x 30.2 | 15.9 | 66.7 | 95.3 | 71.2 | 36.3 | 50.1 | 25.6 | 64.5 |
| 80 | 44 | 333.4 | RD8013 | 3421 | 1901 | 517.5 | 850.9 | 146.1 | 5 3/4-12 | 41.3 | 38.1 | 63.5 | 76.2 | 2 1/2 x 38.1 | 14.3 | 73.0 | 114.3 | 102.6 | 57.0 | 72.1 | 40.1 | 53.6 |
| 100 | 44 | 168.3 | RD1006 | 2242 | 959 | 350.0 | 518.3 | 174.6 | 6 7/8-12 | 41.3 | 38.1 | 63.5 | 98.4 | 2 3/4-12 x 29.4 | 15.9 | 98.4 | 130.2 | 133.1 | 57.0 | 93.5 | 40.1 | 57.2 |
| 100 | 44 | 333.4 | RD10013 | 4440 | 1902 | 515.1 | 848.5 | 174.6 | 6 7/8-12 | 41.3 | 38.1 | 63.5 | 98.4 | 2 3/4-12 x 29.4 | 15.9 | 98.4 | 130.2 | 133.1 | 57.0 | 93.5 | 40.1 | 82.2 |
| 100 | 44 | 511.2 | RD10020 | 6809 | 2919 | 718.3 | 1229.5 | 174.6 | 6 7/8-12 | 41.3 | 38.1 | 63.5 | 98.4 | 2 3/4-12 x 29.4 | 15.9 | 98.4 | 130.2 | 133.1 | 57.0 | 93.5 | 40.1 | 118.0 |
| 150 | 73 | 168.3 | RD1506 | 3334 | 1606 | 377.8 | 546.1 | 209.6 | 8 1/4-12 | 41.3 | 50.8 | 63.5 | 114.3 | 3 1/4 x 38.1 | 20.6 | 114.3 | 158.8 | 197.9 | 95.3 | 139.1 | 66.9 | 85.4 |
| 150 | 73 | 333.4 | RD15013 | 6604 | 3180 | 542.9 | 876.3 | 209.6 | 8 1/4-12 | 41.3 | 50.8 | 63.5 | 114.3 | 3 1/4 x 38.1 | 20.6 | 114.3 | 158.8 | 197.9 | 95.3 | 139.1 | 66.9 | 123.5 |
| 150 | 73 | 460.4 | RD15018 | 9132 | 4392 | 673.9 | 1134.3 | 209.6 | 8 1/4-12 | 41.3 | 50.8 | 63.5 | 114.3 | 3 1/4 x 38.1 | 19.1 | 114.3 | 158.8 | 197.9 | 95.3 | 139.1 | 66.9 | 170.7 |
| 200 | 113 | 168.3 | RD2006 | 4485 | 2457 | 406.4 | 574.7 | 241.3 | 9 1/2-12 | 41.3 | 63.5 | 68.3 | 123.8 | 3 1/2 x 57.1 | 27.0 | 114.3 | 184.2 | 266.3 | 145.9 | 187.2 | 102.6 | 118.9 |
| 200 | 113 | 333.4 | RD20013 | 8886 | 4869 | 571.5 | 904.9 | 241.3 | 9 1/2-12 | 41.3 | 63.5 | 68.3 | 123.8 | 3 1/2 x 57.1 | 27.0 | 114.3 | 184.2 | 266.3 | 145.9 | 187.2 | 102.6 | 161.6 |
| 200 | 113 | 460.4 | RD20018 | 12270 | 6722 | 723.9 | 1184.3 | 241.3 | 9 1/2-12 | 41.3 | 63.5 | 68.3 | 123.8 | 3 1/2 x 57.1 | 27.0 | 114.3 | 184.2 | 266.3 | 145.9 | 187.2 | 102.6 | 200.7 |
| 300 | 147 | 152.4 | RD3006 | 5920 | 2903 | 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 | 12825 | 6281 | 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 | 7724 | 4051 | 489.7 | 642.1 | 320.7 | 12 1/2-8 | 69.9 | 97.6 | 97.6 | 184.2 | 3-12 x 92.2 | 31.8 | 198.4 | 254.0 | 506.6 | 240.3 | 356.2 | 169.0 | 265.6 |
| 400 | 186 | 330.2 | RD40013 | 16744 | 8790 | 667.5 | 997.7 | 320.7 | 12 1/2-8 | 69.9 | 97.6 | 97.6 | 184.2 | 3-12 x 92.2 | 31.8 | 198.4 | 254.0 | 506.6 | 240.3 | 356.2 | 169.0 | 349.6 |
| 500 | 245 | 152.4 | RD5006 | 9774 | 4838 | 522.3 | 674.7 | 374.7 | 14 3/4-8 | 79.4 | 105.6 | 105.6 | 203.2 | 3 1/4-12 x 107.9 | 38.1 | 215.9 | 285.8 | 641.1 | 317.0 | 450.8 | 222.8 | 371.8 |
| 500 | 245 | 330.2 | RD50013 | 21189 | 10480 | 700.1 | 1030.3 | 374.7 | 14 3/4-8 | 79.4 | 105.6 | 105.6 | 203.2 | 3 1/4-12 x 107.9 | 38.1 | 215.9 | 285.8 | 641.1 | 317.0 | 450.8 | 222.8 | 495.8 |

