

# STEEL CYLINDERS

RLR Series - Load Return

**SIMPLEX**



RLR1006 Shown

Capacity Range .....▶ 30 - 1000 tons

Stroke Range .....▶ 6 - 12 in.

Maximum Pressure .....▶ 10,000 psi

- ▶ Large bearings resist side load.
- ▶ Plated piston to resist scoring & corrosion.
- ▶ Stop ring for piston blow-out protection.
- ▶ Custom strokes and capacities up to 1,500 tons available, contact factory.
- ▶ Swivel Eye Bolts are used 100 tons and up.

## THINK SAFETY



Please refer to pages 4&5 for a complete list of safety tips and recommendations.

## POWER PUMPS - pages 43 - 65



Simplex offers a wide variety of lightweight power pumps to fit any application.

## SWIVEL LOAD CAP



5° swivel load caps on 30-100 ton models help stabilize the load.

## DESIGN CONSTRUCTION 150+ TONS



### Piston Flange

A thick bronze inlay on the piston flange virtually eliminates scoring of cylinder bore while offering the best protection against accidental side loading. (150 Tons and up)

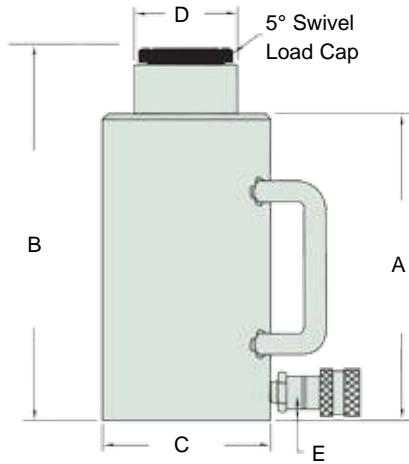
A ten cylinder system, using RLR40012 cylinders, is used to lift the bed of this dragline so that maintenance can be performed on the rollers.▼



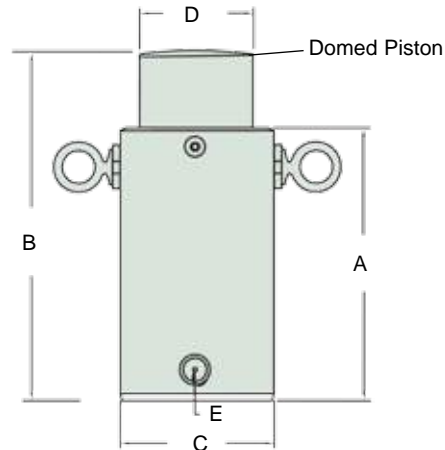
Cylinders

• Note: 100 Ton Models Have Eyebolts For Positioning

**30 - 100 Tons**



**150 - 1000 Tons**



Model	Cap. (tons)	Stroke (in)	Oil Capacity Required (cu.in.)	Ram Bore Diameter (in)	Effective Area (sq in)	Pressure @ Capacity (psi)	A	B	C	D	E	Wgt. (lbs)
							Minimum Height (in)	Extended Height (in)	Body O.D. (in)	Piston O.D. (in)	Base to Port C/L (in)	
RLR306	30	6	38.9	2.87	6.49	9,240	9.38	15.38	4	2	.75	32
RLR502	50	2	22.1	3.75	11.05	9,054	5.44	7.44	5	3	.78	30
RLR506	50	6	66.3	3.75	11.05	9,054	9.44	15.44	5	3	.78	55
RLR5010	50	10	133	3.75	11.05	9,054	13.44	23.44	5	3	.78	92
RLR1006	100	6	118	5	19.63	10,200	10.56	16.56	6.38	3.38	1.25	90
RLR10010	100	10	196	5	19.63	10,200	14.56	24.56	6.38	3.38	1.25	126
RLR1502	150	2	66.4	6.25	30.68	9,778	7	9	9	5.56	1.25	117
RLR1506	150	6	199	6.25	30.68	9,778	11	17	9	5.56	1.93	189
RLR15012	150	12	398	6.25	30.68	9,778	17	29	9	5.56	1.93	297
RLR2002	200	2	88.4	7.25	41.28	9,054	8	10	10	6.56	2.06	184
RLR2006	200	6	265	7.25	41.28	9,054	12	18	10	6.56	2.06	282
RLR20012	200	12	530	7.25	41.28	9,054	18	30	10	6.56	2.06	429
RLR3002	300	2	120	8.75	60.13	9,978	11.5	13.5	12	7.81	2.44	277
RLR3006	300	6	361	8.75	60.13	9,978	13.75	19.75	12	7.81	2.44	405
RLR30012	300	12	722	8.75	60.13	9,978	19.75	31.75	12	7.81	2.44	597
RLR4002	400	2	174	10.5	86.59	9,238	11.5	13.5	14	6.56	3	455
RLR4006	400	6	520	10.5	86.59	9,238	15.5	21.5	14	6.56	3	612
RLR40012	400	12	1040	10.5	86.59	9,238	21.5	33.5	14	6.56	3	842
RLR5002	500	2	208	11.5	103.87	9,628	12.62	14.62	16	10.31	3.19	627
RLR5006	500	6	623	11.5	103.87	9,628	16.62	22.62	16	10.31	3.19	855
RLR50012	500	12	1246	11.5	103.87	9,628	22.62	34.62	16	10.31	3.19	1197
RLR6002	600	2	246	12.5	122.71	9,778	13.5	15.5	17.5	11.31	3.5	655
RLR6006	600	6	738	12.5	122.71	9,778	17.5	23.5	17.5	11.31	3.5	902
RLR60012	600	12	1476	12.5	122.71	9,778	23.5	35.5	17.5	11.31	3.5	1273
RLR8002	800	2	330	14.5	165.13	9,690	14.44	16.44	18	13.31	4.13	997
RLR8006	800	6	991	14.5	165.13	9,690	18.44	24.44	18	13.31	4.13	1256
RLR80012	800	12	1982	14.5	165.13	9,690	24.44	36.44	18	13.31	4.13	1644
RLR10002	1000	2	402	16	201.06	9,950	16.13	18.13	21	14.93	4.25	1523
RLR10006	1000	6	1206	16	201.06	9,950	20.13	26.13	21	14.93	4.25	1883
RLR100012	1000	12	2412	16	201.06	9,950	26.13	38.13	21	14.93	4.25	2423