

STEEL CYLINDERS

R Series - Spring Return

SIMPLEX



R556 Shown

Capacity ▶ 5 - 100 tons
Stroke ▶ .62 - 14.38 in.
Maximum Pressure ▶ 10,000 psi

- ▶ HD internal spring for fast retract assistance.
- ▶ Heat treated load caps are standard.
- ▶ Stop ring for piston blow-out protection.
- ▶ Plated piston resists scoring & corrosion.
- ▶ High flow couplers are plated to resist corrosion.
- ▶ Rod wiper protects inner cylinder from dirt.

Cylinders



HOSES - pages 78 - 79

Heavy duty and thermo plastic hydraulic hoses to meet your requirements and safety factor.



GAUGES - page 77

Improve your system visibility and safety by adding an inline hydraulic gauge to your circuit.



POWER PUMPS - pages 43 - 65

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



THINK SAFETY

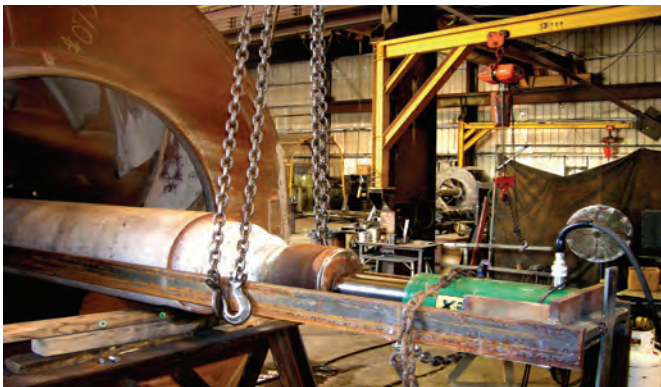
Please refer to pages 4&5 for a complete list of safety tips and recommendations.

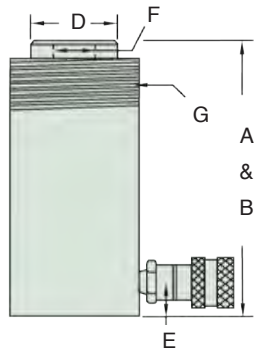


MANIFOLDS - page 73

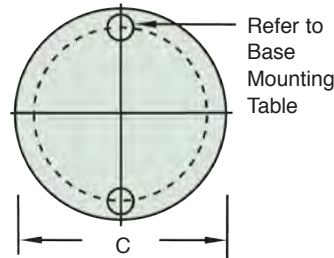
The ideal solution in obtaining precise control when operating multiple cylinders.

This R10010 is used to press the drive shaft into a large industrial fan during standard maintenance. When combined with a Simplex power pump, this job was completed quickly and safely. ▼





* R50 Base Mounting hole 7/32 through x 23/64 "C" bore (1/4" depth).



Standard Base Mounting Holes R51 through R10010 Cylinders

Model	Bolt Circle (in)	Thread (in)	Thread Depth (in)
5 Ton*	1	.25 - 20 UNC	.56
10 Ton	1.56	.31 - 18 UNC	.50
15 Ton	1.88	.38 - 16 UNC	.50
25 Ton	2.31	.5 - 13 UNC	.75
30 Ton	----	----	----
55 Ton	3.75	.5 - 13 UNC	.75
75 Ton	----	----	----
100 Ton	5.5	.75 - 10 UNC	1.00

Model	Cap. (Tons)	Stroke (in)	Oil Cap. Req'd (cu in)	Ram Bore Dia. (in)	Effect Area (sq.in.)	Pres. @ Cap. (psi)	A		B		C		D		E		F		G		Wgt. (lbs)
							Min. Height (in)	Ext. Height (in)	Body O.D. (in)	Piston O.D. (in)	Base to Port C/L (in)	Piston I.D. Thrds (in)	Piston Threads Depth (in)	Collar Threads (in)	Collar Threads Lgth (in)						
R50	5	0.62	0.6	1.13	0.99	10,000	1.62	2.24	2.62	1.00	0.75	----	----	----	----	----	----	----	----	2.5	
R51	5	1.13	0.99	1.13	0.99	10,000	4.37	5.50	1.5	1.00	0.75	.75 -- 16	0.75	1.5 -- 16	1.13	2.3					
R53	5	3.13	2.98	1.13	0.99	10,000	6.52	9.65	1.5	1.00	0.75	.75 -- 16	0.75	1.5 -- 16	1.13	3.3					
R55	5	5.13	4.97	1.13	0.99	10,000	8.52	13.65	1.5	1.00	0.75	.75 -- 16	0.75	1.5 -- 16	1.13	4.1					
R57	5	7.18	6.96	1.13	0.99	10,000	10.75	17.93	1.5	1.00	0.75	.75 -- 16	0.75	1.5 -- 16	1.13	5.3					
R59	5	9.18	9.07	1.13	0.99	10,000	12.83	22.01	1.5	1.00	0.75	.75 -- 16	0.75	1.5 -- 16	1.13	6.1					
R101	10	1.03	2.3	1.69	2.24	8,945	3.50	4.53	2.25	1.50	0.75	----	----	2.25 -- 14	1.13	4					
R102	10	2.19	4.18	1.69	2.24	8,945	4.78	6.97	2.25	1.50	0.75	1 -- 8	0.75	2.25 -- 14	1.13	5.1					
R104	10	4.19	9.2	1.69	2.24	8,945	6.78	10.97	2.25	1.50	0.75	1 -- 8	0.75	2.25 -- 14	1.13	7.2					
R106	10	6.00	13.7	1.69	2.24	8,929	9.78	15.78	2.25	1.50	0.75	1 -- 8	0.75	2.25 -- 14	1.13	9.8					
R108	10	8.00	17.89	1.69	2.24	8,929	11.78	19.78	2.25	1.50	0.75	1 -- 8	0.75	2.25 -- 14	1.13	12					
R1010	10	10.00	22.65	1.69	2.24	8,929	13.78	23.78	2.25	1.50	0.75	1 -- 8	0.75	2.25 -- 14	1.13	14					
R1012	10	12.00	26.84	1.69	2.24	8,929	15.78	27.78	2.25	1.50	0.75	1 -- 8	0.75	2.25 -- 14	1.06	15					
R1014	10	14.00	31.31	1.69	2.24	8,929	17.78	31.78	2.25	1.50	0.75	1 -- 8	0.75	2.25 -- 14	1.06	18					
R152	15	2.13	6.28	2.00	3.14	9,554	5.83	7.96	2.75	1.63	0.75	1 -- 8	1.00	2.75 -- 16	1.19	9					
R154	15	4.13	12.57	2.00	3.14	9,554	7.83	11.96	2.75	1.63	0.75	1 -- 8	1.00	2.75 -- 16	1.19	11					
R156	15	6.38	19	2.00	3.14	9,554	10.69	17.07	2.75	1.63	1.00	1 -- 8	1.00	2.75 -- 16	1.19	15					
R1510	15	10.38	31.4	2.00	3.14	9,554	14.69	25.07	2.75	1.63	1.00	1 -- 8	1.00	2.75 -- 16	1.19	21					
R1514	15	14.38	44	2.00	3.14	9,554	18.69	33.07	2.75	1.63	1.00	1 -- 8	1.00	2.75 -- 16	1.19	26					
R251	25	1.00	5.16	2.56	5.16	9,690	5.50	6.50	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	13					
R252	25	2.00	10.31	2.56	5.16	9,690	6.50	8.50	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	14					
R254	25	4.00	20.63	2.56	5.16	9,690	8.50	12.50	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	18					
R256	25	6.19	32.23	2.56	5.16	9,690	10.75	16.94	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	22					
R258	25	8.19	42.55	2.56	5.16	9,690	12.75	20.94	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	27					
R2510	25	10.19	52.86	2.56	5.16	9,690	14.75	24.94	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	31					
R2512	25	12.19	63.18	2.56	5.16	9,690	16.75	28.94	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	36					
R2514	25	14.19	73.49	2.56	5.16	9,690	18.75	32.94	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	39					
R308	30	8.25	53.6	2.88	6.49	9,245	15.25	23.50	4	2.25	2.25	1.5 -- 16	1.00	3.31 -- 12	1.93	40					
R552	55	2.00	22.08	3.75	11.04	9,960	6.94	8.94	5	3.13	1.38	----	----	5 -- 12	2.81	33					
R554	55	4.00	44.16	3.75	11.04	9,960	8.94	12.94	5	3.13	1.38	----	----	5 -- 12	2.81	42					
R556	55	6.19	69	3.75	11.04	9,960	11.06	17.25	5	3.13	1.38	----	----	5 -- 12	2.81	51					
R5513	55	13.25	146.3	3.75	11.04	9,960	18.26	31.51	5	3.13	1.38	----	----	5 -- 12	2.81	83					
R756	75	6.06	95.4	4.50	15.90	9,430	11.31	17.37	5.75	3.75	1.19	----	----	5.75 -- 12	1.75	65					
R7513	75	13.06	208	4.50	15.90	9,430	19.38	32.44	5.75	3.75	1.19	----	----	5.75 -- 12	1.75	130					
R1006	100	6.63	137	5.13	20.63	9,695	14.06	20.69	7	4.13	1.62	----	----	6.87 -- 12	1.75	90					
R10010	100	10.25	212	5.13	20.63	9,695	17.69	27.94	7	4.13	1.62	----	----	6.87 -- 12	1.75	110					

Cylinders