

# STEEL CYLINDERS

RDA Series - Double Acting

**SIMPLEX**



RDA10006 Shown -  
with optional o/c valve (sold separately)

Capacity Range .....▶ 10 - 1000 tons

Stroke Range .....▶ 2 - 24 in.

Maximum Pressure .....▶ 10,000 psi

- ▶ Collar threads designed for full load (10-200 tons).
- ▶ Removable load cap for flexibility and safety.
- ▶ Stop ring for piston blow-out protection.
- ▶ Plated piston to resist scoring & corrosion.
- ▶ Large bearings resist side load.
- ▶ Rod wiper protects inner cylinder from dirt.
- ▶ Custom strokes and capacities up to 1,500 tons available, contact factory.

Cylinders



#### GAUGES - page 77

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



#### POWER PUMPS - pages 43 - 65

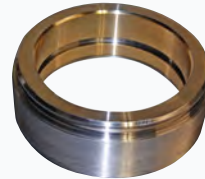
Simplex offers a wide variety of lightweight power pumps to fit any application.



#### MANIFOLDS - page 73

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

#### DESIGN CONSTRUCTION 200+ TONS



#### Bronze Inlay

Thick bronze inlay on the inner diameter of the retaining nut protects the piston rod.

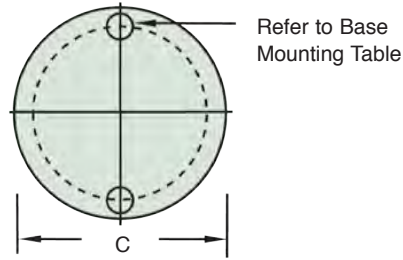


#### Piston Flange

A thick bronze inlay on the piston flange virtually eliminates scoring of cylinder bore while offering the best protection against accidental side loading. (200 Tons and up)

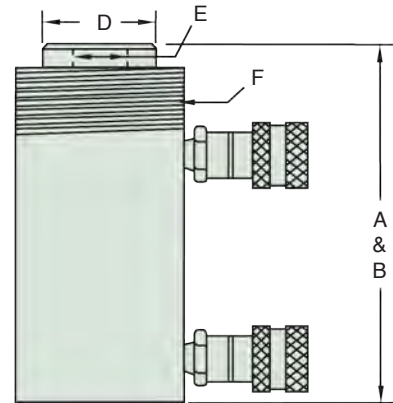
Maintenance crews relied on Simplex RDA15018 cylinders to help lift, transport and launch a U.S. Navy research ship from dry dock to the ship's launch site. ▼





Base Mounting Hole Dimensions

Model	Thread		Bolt Circle Diameter (in)
	Size (in)	Depth (in)	
55 Ton	.62 -11	.75	3.75
100 Ton	.62 -11	1	4.25
150 Ton	1-8	1.38	5
200 Ton	1-8	1.13	5



Model	Push Cap. (tons)	Pull Cap. (tons)	Stroke (in)	Oil Cap. Req'd. (cu.in.)	Ram Bore Dia. (in)	Push Effect Area (sq. in)	Pull Effect Area (sq.in)	Pres. @ Cap. (psi)	A		B		C		D		E		F		Wgt. (lbs)
									Min. Ht. (in)	Ext. Ht. (in)	Body O.D. (in)	Piston O.D. (in)	Piston I.D. Thrds. (in)	Piston Thrd. Depth (in)	Collar Thrds. (in)	Collar Thrd. Lgth. (in)					
RDA1010	10	4	10	22	1.68	2.23	.80	8,960	16.13	26.13	2.87	1.38	1-8	1	2.25-14	1.06	28				
RDA308	30	12.5	8.13	34	2.87	6.51	3	9,250	15.75	23.75	4	2.13	1.5-16	1	3.31-12	1.93	40				
RDA3014	30	12.5	14.5	91	2.87	6.51	3	9,250	21.62	36.13	4	2.13	1.5-16	1	3.31-12	1.93	64				
RDA556	55	17	6.13	46	3.75	11.05	3.4	9,955	13.13	19.25	5	3.13	1-12	1.5	5-12	1.75	68				
RDA5512	55	17	12	92	3.75	11.05	3.4	9,955	19.13	31.13	5	3.13	1-12	1.5	5-12	1.75	114				
RDA5524	55	17	24	184	3.75	11.05	3.4	9,955	31.62	55.62	5	3.13	1-12	1.5	5-12	1.75	201				
RDA1006	100	45	6.06	77	5.25	21.65	9.08	9,239	13.87	19.93	7	4	3.25-12	2.5	7-12	2.5	140				
RDA10012	100	45	12	151	5.25	21.65	9.08	9,239	19.87	31.87	7	4	3.25-12	2.5	7-12	2.5	187				
RDA1506	150	67	6.06	120	6.5	33.18	13.55	9,041	15.44	21.5	8.5	5	3.5-12	2.75	8.5-12	2.19	218				
RDA15012	150	67	12	236	6.5	33.18	13.55	9,041	21.5	33.5	8.5	5	3.5-12	2.75	8.5-12	2.19	295				
RDA2002	200	72	2	66	7.5	44.18	15.91	9,054	11.44	13.44	10	6	2.5-12	2.5	9.75-12	1.87	232				
RDA2006	200	72	6	170	7.5	44.18	15.91	9,054	15.44	21.44	10	6	2.5-12	2.5	9.75-12	1.87	315				
RDA20013	200	72	13	368	7.5	44.18	15.91	9,054	22.44	35.44	10	6	2.5-12	2.5	9.75-12	1.87	440				
RDA3002	355	----	2	101	9.5	70.9	20.62	10,000	13.25	15.25	12	8	----	----	----	----	277				
RDA3006	355	----	6	302	9.5	70.9	20.62	10,000	17.25	23.25	12	8	----	----	----	----	441				
RDA30012	355	----	12	605	9.5	70.9	20.62	10,000	23.25	35.25	12	8	----	----	----	----	688				
RDA4002	565	----	2	127	12	113	49.48	10,000	12.38	14.38	14.5	9	----	----	----	----	530				
RDA4006	565	----	6	382	12	113	49.48	10,000	16.62	22.62	14.5	9	----	----	----	----	670				
RDA40012	565	----	12	762	12	113	49.48	10,000	22.87	34.87	14.5	9	----	----	----	----	880				
RDA5002	664	----	2	156	13	132	54.19	10,000	16.5	18.5	16	10	----	----	----	----	722				
RDA5006	664	----	6	471	13	132	54.19	10,000	20.5	26.5	16	10	----	----	----	----	953				
RDA50012	664	----	12	942	13	132	54.19	10,000	26.5	38.5	16	10	----	----	----	----	1300				
RDA6002	600	----	2	158	12.5	122.71	44.17	10,000	15	17	17	10	----	----	----	----	917				
RDA6006	600	----	6	472	12.5	122.71	44.17	10,000	19	25	17	10	----	----	----	----	1188				
RDA60012	600	----	12	944	12.5	122.71	44.17	10,000	25	37	17	10	----	----	----	----	1595				
RDA8002	800	----	2	226	14.5	165.13	52.03	9,690	16	18	18.5	10	----	----	----	----	1166				
RDA8006	800	----	6	991	14.5	165.13	52.03	9,690	21.5	27.5	18.5	10	----	----	----	----	1461				
RDA80012	800	----	12	1,360	14.5	165.13	52.03	9,690	26	38	18.5	10	----	----	----	----	1776				
RDA10002	1000	----	2	354	17	227	50.27	8,810	16	18	21	15	----	----	----	----	1558				
RDA10006	1000	----	6	1,071	17	227	50.27	8,810	20	26	21	15	----	----	----	----	2058				
RDA100012	1000	----	12	2,142	17	227	50.27	8,810	27	39	21	15	----	----	----	----	2808				