

HRA | DOUBLE ACTING HIGH TONNAGE ALUMINUM CYLINDERS



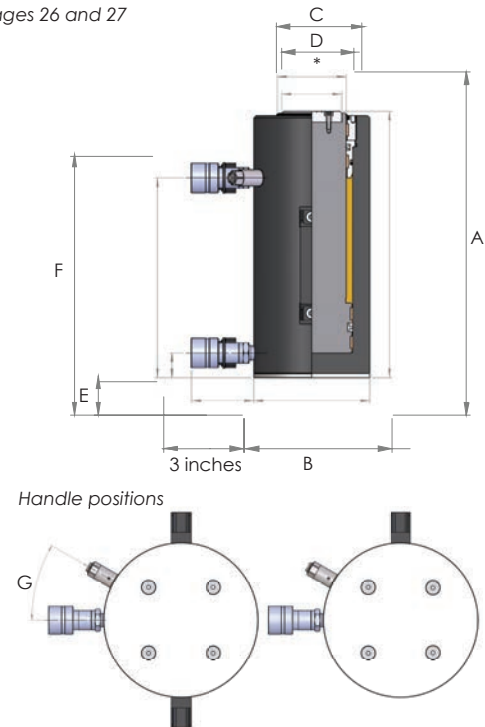
Capacities from 35 to 121 tons

Stroke lengths from 2.01 to 12.02 inches

Working pressure 10000 psi

**see pages 26 and 27*

- ▶ Lightweight aluminum cylinders for applications where weight and portability are of prime importance
- ▶ Double acting design offers higher work output with improved performance and efficiency
- ▶ Hard anodized piston rod and cylinder for corrosion resistance and increased durability
- ▶ Low friction bearing surfaces
- ▶ Anti-extrusion seals for improved performance at high pressures
- ▶ Steel base plate fitted as standard
- ▶ Pressure relief valve on annulus side
- ▶ Optional piston rod saddles listed on pages 26 and 27
- ▶ Customized and special design cylinders are available on request



Model number	Capacity (tons)	Stroke (in)	Oil capacity (in ³)	Cylinder eff. area (in ²)	Weight (lbs)	Handles	Dimensions (in)						
							A	B	C	D	E	F	G
HRA302	35	2.01	13.74	6.85	11.0	-	8.04	4.14	2.36	1.97	0.99	5.36	1.38
HRA306	35	5.99	40.96	6.85	15.4	-	12.02	4.14	2.36	1.97	0.99	9.34	1.38
HRA3012	35	12.02	82.2	6.85	22.0	1	18.05	4.14	2.36	1.97	0.99	15.37	1.38
HRA502	56	2.01	22.05	10.99	22.0	1	8.71	5.32	3.11	2.76	1.18	5.56	1.18
HRA506	56	5.99	65.72	10.99	28.7	1	12.69	5.32	3.11	2.76	1.18	9.53	1.18
HRA5012	56	12.02	131.88	10.99	41.9	1	18.72	5.32	3.11	2.76	1.18	15.56	1.18
HRA1002	121	2.01	47.89	23.85	48.5	2	10.17	7.96	4.33	3.94	1.62	6.78	1.18
HRA1006	121	5.99	142.73	23.85	63.9	2	14.14	7.96	4.33	3.94	1.62	10.76	1.18
HRA10012	121	12.02	286.4	23.85	86.0	2	20.17	7.96	4.33	3.94	1.62	16.78	1.18

Note: If specifying this cylinder for use with the SLF and SLV synchronous lifting systems and associated mounting kit, please consider the increase in dimension A (closed height), see pages 46 and 50.