

▼ Shown from left to right: RAR-1008, RAR-506, RAR-502



The Lightweight Solution for Double-Acting Applications



Saddles

All RAR-cylinders are equipped with bolt-on removable hardened steel saddles.



Hoses

Enerpac offers a complete line of high-quality hydraulic hoses. To ensure the integrity of your system, specify only Enerpac hydraulic hoses.

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Optimum Performance

Enerpac's range of ZU4 electric pumps, fitted with manual or solenoid operated 4-way valves,

offer optimum combinations with RAR cylinders.

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- Double-acting for rapid retraction, regardless of hose lengths and system losses
- Composite bearings increase cylinder life and side load resistance
- Hard coat finish on all surfaces resists damage and extends cylinder life
- Handles included on all models
- Steel baseplate and saddle for protection against load-induced damage
- Integral stop ring prevents plunger over-travel and is capable of withstanding the full cylinder capacity
- Built-in safety valve prevents accidental over-pressurization

▼ An RAR-506 was easy to position under a bulldozer for repair of frame member.



Cylinder Capacity (tons)	Stroke (in)	Model Number	Maximum Cylinder Capacity (tons)		Cylinder Effective Area (in ²)		Oil Capacity (in ³)	
			Push	Pull	Push	Pull	Push	Pull
50	1.97	RAR-502	55	21	10.99	4.14	21.63	8.15
	3.94	RAR-504	55	21	10.99	4.14	43.25	16.30
	5.91	RAR-506	55	21	10.99	4.14	64.88	24.44
100	3.94	RAR-1004	111	62	22.19	12.33	87.35	48.53
	5.91	RAR-1006	111	62	22.19	12.33	131.02	72.79
	7.87	RAR-1008	111	62	22.19	12.33	174.70	97.05
150	5.91	RAR-1506	176	102	35.18	20.45	207.77	120.78

Double-Acting, Aluminum Cylinders



Aluminum vs. Steel

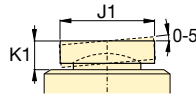
Aluminum cylinders, while offering the most lightweight solution also have some unique limitations due to material properties.

It differs from steel in that it has a lower finite fatigue life. Aluminum cylinders should NOT be used in high-cycle applications such as production.

These cylinders are designed to provide 5000 cycles at their recommended pressure. **This limit should not be exceeded.** In normal lifting and many maintenance applications, this should provide a lifetime of use.

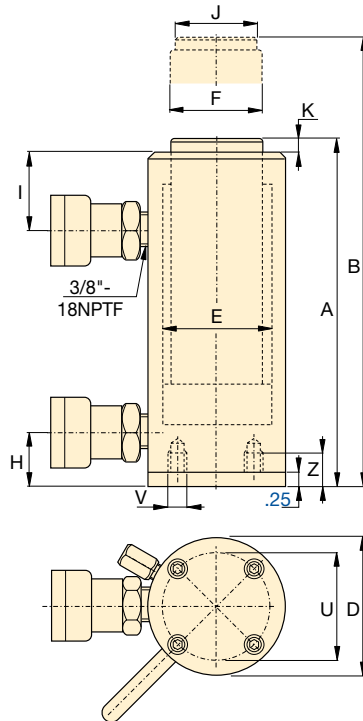
Optional Bolt On Tilt Saddle Dimensions (in)

Cylinder Model / Capacity (ton)	Model Number	Saddle Diameter J1	Saddle Protrusion from Base K1
RAR-50	CATG-50	1.97	1.02
RAR-100	CATG-150	3.59	1.30
RAR-150	CATG-200	4.65	1.46



Steel Base Plate Mounting Holes			
Cylinder Model / Capacity (ton)	Bolt Circle U (in)	Thread V (mm)	Thread Depth ¹⁾ Z (in)
RAR-50	4.33	M6	.47
RAR-100	6.50	M6	.47
RAR-150	7.87	M6	.47

¹⁾ Including Base Plate Height of .25 inch.
Four (4) baseplate bolts: M6 x 1.0 x .24



RAR Series



Capacity:

50-150 tons

Stroke:

1.97-7.87 inches

Maximum Operating Pressure:

10,000 psi



Steel Base Plate

The steel base plate protects the cylinder base from damage, it should not be removed.

The base holes in these aluminum cylinders are designed for securing the steel base plate. **They will not withstand the capacity of the cylinder.**

Do not use the base holes in these aluminum cylinders to attach any device to the cylinder.



Standard Features

- CR-400 coupler and dust cap
- All cylinders meet ASME B-30.1 and ISO 10100 standards.

Collapsed Height	Extended Height	Outside Diameter	Cylinder Bore Diameter	Plunger Diameter	Base to Advance Port	Top to Retract Port	Saddle Diameter	Saddle Protrusion from Plunger	Weight (lbs)	Model Number
A (in)	B (in)	D (in)	E (in)	F (in)	H (in)	I (in)	J (in)	K (in)		
7.91	9.88	5.71	3.74	2.95	1.19	2.20	1.97	.12	24.5	RAR-502
9.88	13.82	5.71	3.74	2.95	1.19	2.20	1.97	.12	28.0	RAR-504
11.85	17.76	5.71	3.74	2.95	1.19	2.20	1.97	.12	31.5	RAR-506
11.85	15.79	7.28	5.31	3.54	1.70	3.15	2.95	.12	42.6	RAR-1004
13.82	19.72	7.28	5.31	3.54	1.70	3.15	2.95	.12	48.9	RAR-1006
15.79	23.66	7.28	5.31	3.54	1.70	3.15	2.95	.12	55.3	RAR-1008
13.71	19.60	9.06	6.69	4.33	1.50	2.95	3.70	.12	73.2	RAR-1506