

▼ Shown from left to right: RAR5010, RAR308, RAR204



Saddles

All RAR-cylinders are equipped with bolt-on removable hardened steel saddles. For Tilt Saddles see next page.

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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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- Double-acting for rapid retraction, regardless of hose lengths or system losses
- Composite bearings increase cylinder life and side load resistance
- Hard-Coat finish on all surfaces resists damage and extends cylinder life
- Handle and CR400 couplers with dust caps included on all models
- Steel base plate 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 RAR506 was easy to position under a bulldozer for repair of frame member.

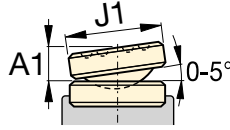


Cylinder Capacity	Stroke	Model Number	Maximum Cylinder Capacity (tons) Push	Cylinder Effective Area (in ²)		Oil Capacity (in ³)	
				Push	Pull	Push	Pull
20	1.97	RAR202	24.2	4.83	2.88	9.52	5.67
	3.94	RAR204	24.2	4.83	2.88	19.03	11.34
	5.91	RAR206	24.2	4.83	2.88	28.55	17.02
	7.87	RAR208	24.2	4.83	2.88	38.01	22.66
	9.84	RAR2010	24.2	4.83	2.88	47.53	28.34
30	1.97	RAR302	34.2	6.85	3.80	13.49	7.49
	3.94	RAR304	34.2	6.85	3.80	26.99	14.97
	5.91	RAR306	34.2	6.85	3.80	40.48	22.46
	7.87	RAR308	34.2	6.85	3.80	53.91	29.91
	9.84	RAR3010	34.2	6.85	3.80	67.40	37.39
50	1.97	RAR502	54.9	10.99	3.54	21.65	6.97
	3.94	RAR504	54.9	10.99	3.54	43.30	13.95
	5.91	RAR506	54.9	10.99	3.54	64.95	20.92
	7.87	RAR508	54.9	10.99	3.54	86.49	27.86
	9.84	RAR5010	54.9	10.99	3.54	108.14	34.83
100	1.97	RAR1002	110.9	22.19	12.33	43.71	24.29
	3.94	RAR1004	110.9	22.19	12.33	87.43	48.58
	5.91	RAR1006	110.9	22.19	12.33	131.14	72.87
	7.87	RAR1008	110.9	22.19	12.33	174.64	97.04
	9.84	RAR10010	110.9	22.19	12.33	218.35	121.33
150	1.97	RAR1502	175.9	35.18	20.45	69.30	40.29
	3.94	RAR1504	175.9	35.18	20.45	138.61	80.57
	5.91	RAR1506	175.9	35.18	20.45	207.91	120.86
	7.87	RAR1508	175.9	35.18	20.45	276.87	160.94
	9.84	RAR15010	175.9	35.18	20.45	346.17	201.23

Double-Acting Aluminum Cylinders

Optional Bolt-on Tilt Saddle Dimensions (in)

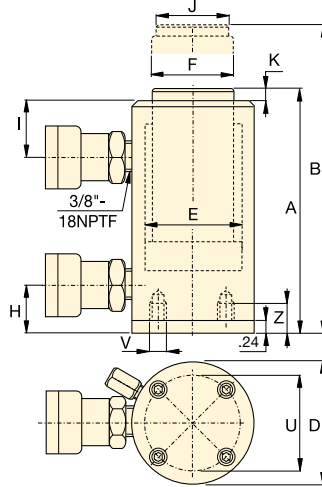
For Cylinder Model / Capacity tons	Tilt Saddle Model Number	Tilt Saddle Diameter J1	Addition to Collapsed Height A1
RAR20	CATS20	1.65	0.39
RAR30	CATS30	2.17	0.43
RAR50	CATS50	2.80	0.55
RAR100	CATS101	2.80	0.39
RAR150	CATS150	4.96	0.71



Steel Base Plate Mounting Holes

Cylinder Model / Capacity tons	Bolt Circle U (in)	Thread V (mm)	Thread Depth ¹⁾ Z (in)
RAR20	3.66	M6	0.47
RAR30	4.13	M6	0.47
RAR50	4.33	M6	0.47
RAR100	6.10	M6	0.47
RAR150	7.87	M6	0.47

¹⁾ Including Base Plate Height of 0.25 inch and four (4) base plate bolts M6.



RAR Series



Capacity:
20 - 150 tons

Stroke:
1.97 - 9.84 inches

Maximum Operating Pressure:
10,000 psi



Steel Base Plate

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

See warning on page 17.

Collapsed Height A (in)	Extended Height B (in)	Outside Diameter D (in)	Cylinder Bore Diameter E (in)	Plunger Diameter F (in)	Bottom to Advance Port H (in)	Top to Retract Port I (in)	Saddle Diameter J (in)	Saddle Protrusion from Plunger K (in)	 (lbs)	Model Number
7.45	9.42	4.45	2.48	1.58	1.19	1.97	1.18	0.12	16.3	RAR202
9.42	13.35	4.45	2.48	1.58	1.19	1.97	1.18	0.12	17.6	RAR204
11.29	17.29	4.45	2.48	1.58	1.19	1.97	1.18	0.12	19.0	RAR206
13.35	21.23	4.45	2.48	1.58	1.19	1.97	1.18	0.12	20.3	RAR208
15.32	25.17	4.45	2.48	1.58	1.19	1.97	1.18	0.12	21.6	RAR2010
7.92	9.89	4.92	2.95	1.97	1.19	2.17	1.58	0.12	19.0	RAR302
9.89	13.83	4.92	2.95	1.97	1.19	2.17	1.58	0.12	20.9	RAR304
11.86	17.76	4.92	2.95	1.97	1.19	2.17	1.58	0.12	22.9	RAR306
13.83	21.70	4.92	2.95	1.97	1.19	2.17	1.58	0.12	24.9	RAR308
15.80	25.64	4.92	2.95	1.97	1.19	2.17	1.58	0.12	26.9	RAR3010
7.92	9.89	5.71	3.74	2.95	1.19	2.21	1.97	0.12	24.5	RAR502
9.89	13.83	5.71	3.74	2.95	1.19	2.21	1.97	0.12	28.0	RAR504
11.86	17.76	5.71	3.74	2.95	1.19	2.21	1.97	0.12	31.5	RAR506
13.83	21.70	5.71	3.74	2.95	1.19	2.21	1.97	0.12	35.1	RAR508
15.80	25.64	5.71	3.74	2.95	1.19	2.21	1.97	0.12	38.6	RAR5010
9.89	11.86	7.28	5.32	3.54	1.70	3.15	2.95	0.12	36.2	RAR1002
11.86	15.80	7.28	5.32	3.54	1.70	3.15	2.95	0.12	42.6	RAR1004
13.83	19.73	7.28	5.32	3.54	1.70	3.15	2.95	0.12	48.9	RAR1006
15.80	23.67	7.28	5.32	3.54	1.70	3.15	2.95	0.12	55.3	RAR1008
17.76	27.61	7.28	5.32	3.54	1.70	3.15	2.95	0.12	61.7	RAR10010
9.77	11.74	9.06	6.70	4.33	1.50	2.95	3.70	0.12	53.4	RAR1502
11.74	16.68	9.06	6.70	4.33	1.50	2.95	3.70	0.12	63.7	RAR1504
13.71	19.61	9.06	6.70	4.33	1.50	2.95	3.70	0.12	73.2	RAR1506
15.68	23.55	9.06	6.70	4.33	1.50	2.95	3.70	0.12	83.6	RAR1508
17.64	29.46	9.06	6.70	4.33	1.50	2.95	3.70	0.12	93.9	RAR15010