


▼ Shown from left to right: RAR-506, RAR-508, RAR-302




The Lightweight Solution for Double-Acting Applications



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 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 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

Cylinder Capacity (ton)	Stroke* (in)	Model Number	Maximum Cylinder Capacity (ton)		Cylinder Effective Area (in ²)		Oil Capacity (in ³)	
			Push	Pull	Push	Pull	Push	Pull
20 (24.2)	1.97	RAR-202	24.2	14.4	4.83	2.88	9.52	5.67
	3.94	RAR-204	24.2	14.4	4.83	2.88	19.03	11.34
	5.91	RAR-206	24.2	14.4	4.83	2.88	28.55	17.02
	7.87	RAR-208	24.2	14.4	4.83	2.88	38.01	22.66
	9.84	RAR-2010	24.2	14.4	4.83	2.88	47.53	28.34
30 (34.2)	1.97	RAR-302	34.2	19.0	6.85	3.80	13.49	7.49
	3.94	RAR-304	34.2	19.0	6.85	3.80	26.99	14.97
	5.91	RAR-306	34.2	19.0	6.85	3.80	40.48	22.46
	7.87	RAR-308	34.2	19.0	6.85	3.80	53.91	29.91
	9.84	RAR-3010	34.2	19.0	6.85	3.80	67.40	37.39
50 (54.9)	1.97	RAR-502	54.9	17.1	10.99	3.54	21.65	6.97
	3.94	RAR-504	54.9	17.1	10.99	3.54	43.30	13.95
	5.91	RAR-506	54.9	17.1	10.99	3.54	64.95	20.92
	7.87	RAR-508	54.9	17.1	10.99	3.54	86.49	27.86
	9.84	RAR-5010	54.9	17.1	10.99	3.54	108.14	34.83
100 (110.9)	1.97	RAR-1002	110.9	61.7	22.19	12.33	43.71	24.29
	3.94	RAR-1004	110.9	61.7	22.19	12.33	87.43	48.58
	5.91	RAR-1006	110.9	61.7	22.19	12.33	131.14	72.87
	7.87	RAR-1008	110.9	61.7	22.19	12.33	174.64	97.04
	9.84	RAR-10010	110.9	61.7	22.19	12.33	218.35	121.33
150 (175.9)	1.97	RAR-1502	175.9	102.25	35.18	20.45	69.30	40.29
	3.94	RAR-1504	175.9	102.25	35.18	20.45	138.61	80.57
	5.91	RAR-1506	175.9	102.25	35.18	20.45	207.91	120.86
	7.87	RAR-1508	175.9	102.25	35.18	20.45	276.87	160.94
	9.84	RAR-15010	175.9	102.25	35.18	20.45	346.17	201.23



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

* Custom strokes available.

Double-Acting, Aluminum Cylinders



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.

Capacity:
20-150 tons

Stroke:
1.97-9.84 inches

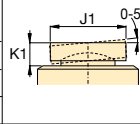
Maximum Operating Pressure:
10,000 psi

RAR Series



Optional Bolt Tilt Saddle Dimensions (in)

Cylinder Model / Capacity (ton)	Model Number*	Saddle Diameter J1	Saddle Protrusion from Plunger K1
RAR-50	CATG-50	1.95	1.02
RAR-100	CATG-100	2.81	1.22
RAR-150	CATG-150	3.57	1.30

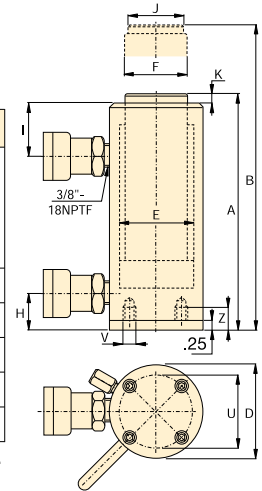


* Tilt saddle not available for less than 50 ton.

Steel Base Plate Mounting Holes

Cylinder Model / Capacity (ton)	Bolt Circle U (in)	Thread V (mm)	Thread Depth ¹⁾ Z (in)
RAR-20	3.66	M6	.47
RAR-30	4.13	M6	.47
RAR-50	4.33	M6	.47
RAR-100	6.10	M10	.47
RAR-150	7.87	M10	.47

¹⁾ Including Base Plate Height of .25 inches. Four (4) base plate bolts included.



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	Model Number
A (in)	B (in)	D (in)	E (in)	F (in)	H (in)	I (in)	J (in)	K (in)	(lbs)	
7.45	9.42	4.45	2.48	1.58	1.19	1.97	1.18	0.12	16.3	RAR-202
9.42	13.35	4.45	2.48	1.58	1.19	1.97	1.18	0.12	17.6	RAR-204
11.29	17.29	4.45	2.48	1.58	1.19	1.97	1.18	0.12	19.0	RAR-206
13.35	21.23	4.45	2.48	1.58	1.19	1.97	1.18	0.12	20.3	RAR-208
15.32	25.17	4.45	2.48	1.58	1.19	1.97	1.18	0.12	21.6	RAR-2010
7.92	9.89	4.92	2.95	1.97	1.19	2.17	1.58	0.12	19.0	RAR-302
9.89	13.83	4.92	2.95	1.97	1.19	2.17	1.58	0.12	20.9	RAR-304
11.86	17.76	4.92	2.95	1.97	1.19	2.17	1.58	0.12	22.9	RAR-306
13.83	21.70	4.92	2.95	1.97	1.19	2.17	1.58	0.12	24.9	RAR-308
15.80	25.64	4.92	2.95	1.97	1.19	2.17	1.58	0.12	26.9	RAR-3010
7.92	9.89	5.71	3.74	2.95	1.19	2.21	1.97	0.12	24.5	RAR-502
9.89	13.83	5.71	3.74	2.95	1.19	2.21	1.97	0.12	28.0	RAR-504
11.86	17.76	5.71	3.74	2.95	1.19	2.21	1.97	0.12	31.5	RAR-506
13.83	21.70	5.71	3.74	2.95	1.19	2.21	1.97	0.12	35.1	RAR-508
15.80	25.64	5.71	3.74	2.95	1.19	2.21	1.97	0.12	38.6	RAR-5010
9.89	11.86	7.28	5.32	3.54	1.70	3.15	2.95	0.12	36.2	RAR-1002
11.86	15.80	7.28	5.32	3.54	1.70	3.15	2.95	0.12	42.6	RAR-1004
13.83	19.73	7.28	5.32	3.54	1.70	3.15	2.95	0.12	48.9	RAR-1006
15.80	23.67	7.28	5.32	3.54	1.70	3.15	2.95	0.12	55.3	RAR-1008
17.76	27.61	7.28	5.32	3.54	1.70	3.15	2.95	0.12	61.7	RAR-10010
9.77	11.74	9.06	6.70	4.33	1.50	2.95	3.70	0.12	53.4	RAR-1502
11.74	16.68	9.06	6.70	4.33	1.50	2.95	3.70	0.12	63.7	RAR-1504
13.71	19.61	9.06	6.70	4.33	1.50	2.95	3.70	0.12	73.2	RAR-1506
15.68	23.55	9.06	6.70	4.33	1.50	2.95	3.70	0.12	83.6	RAR-1508
19.61	29.46	9.06	6.70	4.33	1.50	2.95	3.70	0.12	93.9	RAR-15010