

▼ Shown from left to right: RAR506, RAR508, RAR302



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.

Page: 21



Hoses

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

Page: 148

- 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



◀ An RAR506 was easy to position under a bulldozer for repair of frame member.

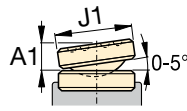
Cylinder Capacity (ton)	Stroke* (in)	Model Number	Maximum Cylinder Capacity (ton)	Cylinder Effective Area (in ²)			Oil Capacity (in ³)	
			Push	Push	Pull	Push	Pull	
20 (24.2)	1.97	RAR202	24.2	4.83	2.88	9.52	5.67	
	3.94	RAR204	24.2	4.83	2.88	19.03	11.34	
	5.91	RAR206	24.2	4.83	2.88	28.55	17.02	
	7.87	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 (34.2)	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 (54.9)	1.97	RAR502	55	10.99	3.54	21.65	6.97	
	3.94	RAR504	55	10.99	3.54	43.30	13.95	
	5.91	RAR506	55	10.99	3.54	64.95	20.92	
	7.87	RAR508	55	10.99	3.54	86.49	27.86	
	9.84	RAR5010	55	10.99	3.54	108.14	34.83	
100 (110.9)	1.97	RAR1002	111	22.19	12.33	43.71	24.29	
	3.94	RAR1004	111	22.19	12.33	87.43	48.58	
	5.91	RAR1006	111	22.19	12.33	131.14	72.87	
	7.87	RAR1008	111	22.19	12.33	174.64	97.04	
	9.84	RAR10010	111	22.19	12.33	218.35	121.33	
150 (175.9)	1.97	RAR1502	176	35.18	20.45	69.30	40.29	
	3.94	RAR1504	176	35.18	20.45	138.61	80.57	
	5.91	RAR1506	176	35.18	20.45	207.91	120.86	
	7.87	RAR1508	176	35.18	20.45	276.87	160.94	
	9.84	RAR15010	176	35.18	20.45	346.17	201.23	

* Custom strokes available.

Double-Acting, Aluminum Cylinders

Optional Tilt Saddle Dimensions (in)

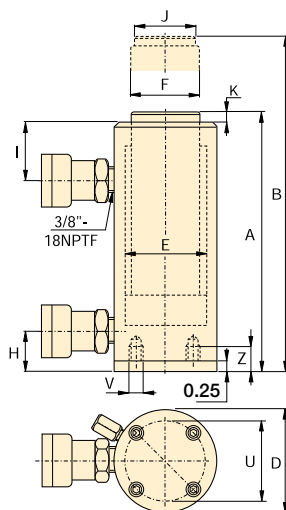
Cylinder Model / Capacity (ton)	Tilt Saddle Model Number	Tilt Saddle Diameter	Addition to Collapsed Height A1
		J1	A1
RAR20	CATS20	1.65	0.39
RAR30	CATS30	2.17	0.43
RAR50	CATS50	2.80	0.55
RAR100	CATS101	2.80	0.39
RAR150	CATS150	4.96	0.71



Steel Base Plate Mounting Holes

Cylinder Model / Capacity (ton)	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	M10	0.47
RAR150	7.87	M10	0.47

¹⁾ Including Base Plate Height of 0.25 inches.
Four (4) base plate bolts included.



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 base from damage, it should not be removed. See warning on page 11.

Page: **11**

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	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