

RAR-Series, Double-Acting Aluminium Cylinders

ENERPAC 

▼ 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.

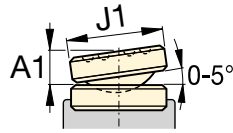


Cylinder Capacity @ 700 bar ton	Stroke (mm)	Model Number	Maximum Cylinder Capacity (kN) Push	Cylinder Effective Area (cm ²)		Oil Capacity (cm ³)	
				Push	Pull	Push	Pull
20	50	RAR202	218	31,2	18,6	156	93
	100	RAR204	218	31,2	18,6	312	186
	150	RAR206	218	31,2	18,6	468	279
	200	RAR208	218	31,2	18,6	624	372
	250	RAR2010	218	31,2	18,6	780	465
30	50	RAR302	309	44,2	24,5	221	123
	100	RAR304	309	44,2	24,5	442	245
	150	RAR306	309	44,2	24,5	663	368
	200	RAR308	309	44,2	24,5	884	490
	250	RAR3010	309	44,2	24,5	1105	613
50	50	RAR502	496	70,9	26,7	354	134
	100	RAR504	496	70,9	26,7	709	267
	150	RAR506	496	70,9	26,7	1063	401
	200	RAR508	496	70,9	26,7	1417	534
	250	RAR5010	496	70,9	26,7	1771	668
100	50	RAR1002	1002	143,1	79,5	715	398
	100	RAR1004	1002	143,1	79,5	1431	795
	150	RAR1006	1002	143,1	79,5	2147	1193
	200	RAR1008	1002	143,1	79,5	2863	1590
	250	RAR10010	1002	143,1	79,5	3578	1988
150	50	RAR1502	1589	227,0	132,0	1135	660
	100	RAR1504	1589	227,0	132,0	2270	1320
	150	RAR1506	1589	227,0	132,0	3405	1980
	200	RAR1508	1589	227,0	132,0	4540	2640
	250	RAR15010	1589	227,0	132,0	5675	3300

Double-Acting Aluminium Cylinders

Optional Bolt-on Tilt Saddle Dimensions (mm)

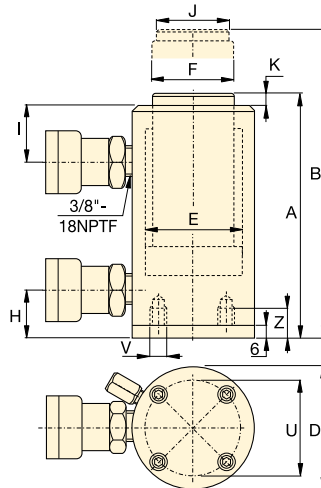
For Cylinder Model / Capacity ton	Tilt Saddle Model Number	Tilt Saddle Diameter	Addition to Collapsed Height A1
		J1	A1
RAR20	CATS20	42	10
RAR30	CATS30	55	11
RAR50	CATS50	71	14
RAR100	CATS101	71	10
RAR150	CATS150	97	19



Steel Base Plate Mounting Holes

Cylinder Model / Capacity ton	Bolt Circle U (mm)	Thread V (mm)	Thread Depth ¹⁾ Z (mm)
RAR20	93	M6	12
RAR30	105	M6	12
RAR50	110	M6	12
RAR100	155	M6	12
RAR150	200	M6	12

¹⁾ Including Base Plate Height of 6 mm and four (4) base plate bolts M6.



RAR Series



Capacity:

20 - 150 ton

Stroke:

50 - 250 mm

Maximum Operating Pressure:

700 bar



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 (mm)	Extended Height B (mm)	Outside Diameter D (mm)	Cylinder Bore Diameter E (mm)	Plunger Diameter F (mm)	Bottom to Advance Port H (mm)	Top to Retract Port I (mm)	Saddle Diameter J (mm)	Saddle Protrusion from Plunger K (mm)	(kg)	Model Number
189	239	113	63	40	30	50	30	3	7,4	RAR202
239	339	113	63	40	30	50	30	3	8,0	RAR204
289	439	113	63	40	30	50	30	3	8,6	RAR206
339	539	113	63	40	30	50	30	3	9,2	RAR208
389	639	113	63	40	30	50	30	3	9,8	RAR2010
201	251	125	75	50	30	55	40	3	8,6	RAR302
251	351	125	75	50	30	55	40	3	9,5	RAR304
301	451	125	75	50	30	55	40	3	10,4	RAR306
351	551	125	75	50	30	55	40	3	11,3	RAR308
401	651	125	75	50	30	55	40	3	12,2	RAR3010
201	251	145	95	75	30	56	50	3	11,1	RAR502
251	351	145	95	75	30	56	50	3	12,7	RAR504
301	451	145	95	75	30	56	50	3	14,3	RAR506
351	551	145	95	75	30	56	50	3	15,9	RAR508
401	651	145	95	75	30	56	50	3	17,5	RAR5010
251	301	185	135	90	43	80	75	3	16,4	RAR1002
301	401	185	135	90	43	80	75	3	19,3	RAR1004
351	501	185	135	90	43	80	75	3	22,2	RAR1006
401	601	185	135	90	43	80	75	3	25,1	RAR1008
451	701	185	135	90	43	80	75	3	28,0	RAR10010
248	298	230	170	110	38	75	94	3	24,2	RAR1502
298	398	230	170	110	38	75	94	3	28,9	RAR1504
348	498	230	170	110	38	75	94	3	33,2	RAR1506
398	598	230	170	110	38	75	94	3	37,9	RAR1508
448	698	230	170	110	38	75	94	3	42,6	RAR15010