

RAC-Series, Aluminium Cylinders

▼ Shown from left to right: RAC-5010, RAC-15010, RAC-304, RAC-208



- Composite bearings prevent metal-to-metal contact, increasing cylinder life and resistance to side-loads of up to 10%
- 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
- High strength return spring for rapid cylinder retraction
- CR-400 coupler and dustcap included on all models
- All cylinders meet ASME B-30.1 and ISO 10100 standards.



◀ The unique Enerpac RA-Series cylinders – lightweight and entirely made of aluminium alloy – these RAC-506 cylinders are ideal for the positioning of tunnel elements under the river. (High Speed Train Line, The Netherlands)

Lightweight for Maximum Portability



Saddles

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

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Lightweight Hand Pumps

The Enerpac composite lightweight hand pumps P-392 or P-802 make the optimal lightweight set.

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Lock Nut Cylinders

When positive mechanical load holding is required, RACL-Series Aluminium Lock Nut Cylinders are the ideal choice.

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▼ SELECTION CHART

Cylinder Capacity @ 700 bar ton (kN)	Stroke (mm)	Model Number *	Cylinder Effective Area (cm ²)
20 (218)	50	RAC-202	31,2
	100	RAC-204	31,2
	150	RAC-206	31,2
30 (309)	50	RAC-302	44,2
	100	RAC-304	44,2
	150	RAC-306	44,2
50 (496)	50	RAC-502	70,9
	100	RAC-504	70,9
	150	RAC-506	70,9
100 (1002)	100	RAC-1004	143,1
	150	RAC-1006	143,1
	200	RAC-1008	143,1
150 (1589)	150	RAC-1506	227,0

* Note: Every RAC-cylinder is available with a stroke of 50, 100, 150, 200 and 250 mm.

Single-Acting, Aluminium Cylinders



Aluminium versus Steel

Aluminium 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. Aluminium cylinders should NOT be used in high-cycle applications such as production.

The Enerpac line of aluminium 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.

RAC Series



Capacity:
20 - 150 ton

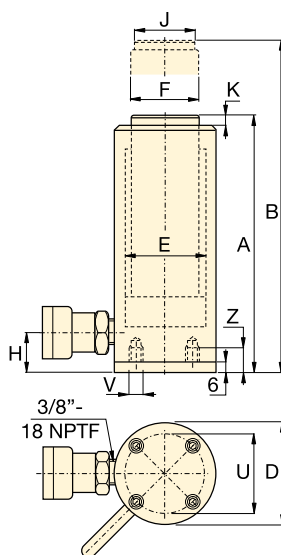
Stroke:
50 - 200 mm

Maximum Operating Pressure:
700 bar

Optional Bolt-on Tilt Saddle Dimensions (mm)				
For Cylinder Model / Capacity ton	Tilt Saddle Model Number	Tilt Saddle Diameter J1	Saddle Protrusion from Plunger K1	
RAC-50	CATG-50	50	24	
RAC-100	CATG-150	91	31	
RAC-150	CATG-200	118	35	

Steel Base Plate Mounting Holes			
Cylinder Model / Capacity ton	Bolt Circle U (mm)	Thread V (mm)	Thread Depth ¹⁾ Z (mm)
RAC-20	70	M6	12
RAC-30	80	M6	12
RAC-50	110	M6	12
RAC-100	160	M6	12
RAC-150	200	M6	12

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



Steel Base Plate

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

The base holes in these aluminium 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 aluminium cylinders to attach any device to the cylinder.

Oil Capacity (cm ³)	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)	Saddle Diameter J (mm)	Saddle Protrusion from Plunger K (mm)	Weight (kg)	Model Number *
156	174	224	85	63	50	27	40	3	3,6	RAC-202
312	224	324	85	63	50	27	40	3	4,1	RAC-204
468	274	424	85	63	50	27	40	3	4,6	RAC-206
221	181	231	100	75	60	32	40	3	4,5	RAC-302
442	231	331	100	75	60	32	40	3	5,2	RAC-304
663	281	431	100	75	60	32	40	3	5,9	RAC-306
354	186	236	130	95	80	30	50	3	8,5	RAC-502
709	236	336	130	95	80	30	50	3	9,8	RAC-504
1063	286	436	130	95	80	30	50	3	11,1	RAC-506
1431	271	271	180	135	110	46	94	3	19,6	RAC-1004
2147	321	471	180	135	110	46	94	3	21,9	RAC-1006
2863	371	571	180	135	110	46	94	3	24,2	RAC-1008
3405	343	493	230	170	140	51	113	3	33,3	RAC-1506