

▼ Shown from left to right: RARH6010 and RARH306



The Lightweight Solution for Double-Acting Applications



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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Gauges

Minimize the risk of overloading and ensure long, dependable service from your equipment.

Refer to the System Components section for a full range of gauges.

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4-Way Control Valve

The P84 and P464 hand pumps feature a manual 4-way control valve, designed for use with one double-acting or two single-acting cylinders. For system set-up information:

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- Lighter and shorter collapsed height than equivalent RACH models
- Double-acting for rapid retraction, regardless of hose lengths or system losses
- Built-in safety valve prevents accidental over-pressurization
- Hollow plunger design allows for both pull and push forces
- Hard coat finish on all surfaces resists damage and extends cylinder life
- Handles and CR400 couplers with dust caps included on all models
- Floating center tube increases seal life
- 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
- All cylinders meet ASME B-30.1 standards.

Cylinder Capacity tons (maximum)	Stroke * (in)	Model Number	Maximum Cylinder Capacity @ 10,150 psi (tons)		Cylinder Effective Area (in ²)		Oil Capacity (in ³)	
			Advance	Retract	Advance	Retract	Advance	Retract
30 (40.3)	1.97	RARH302	40.30	21.00	7.94	4.14	15.63	8.14
	5.91	RARH306	40.30	21.00	7.94	4.14	46.89	24.43
	9.84	RARH3010	40.30	21.00	7.94	4.14	78.15	40.72
60 (66.8)	1.97	RARH602	66.81	29.65	13.17	5.84	25.91	11.50
	5.91	RARH606	66.81	29.65	13.17	5.84	77.72	34.50
	9.84	RARH6010	66.81	29.65	13.17	5.84	129.54	57.49
100 (112.4)	1.97	RARH1002	112.40	63.80	22.16	12.57	43.60	24.73
	5.91	RARH1006	112.40	63.80	22.16	12.57	130.79	74.19
	9.84	RARH10010	112.40	63.80	22.16	12.57	217.99	123.66
150 (167.2)	1.97	RARH1502	167.20	84.00	32.96	16.56	64.86	32.58
	5.91	RARH1506	167.20	84.00	32.96	16.56	194.57	97.74
	9.84	RARH15010	167.20	84.00	32.96	16.56	324.28	162.89

* Intermediate strokes and other tonnages available upon request.

Aluminum Double-Acting Hollow Plunger Cylinders



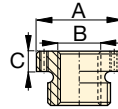
Steel Base Plate

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.

Optional Threaded Hollow Saddles

Saddle Type	Cylinder Model Number	Saddle Model Number	Saddle Dimensions (in)		
			A	B	C
Threaded Hollow	RARH302, 306, 3010	HP3015	2.49	1 1/4"-7 UN	0.38
	RARH602, 606, 6010	HP5016	3.61	1 5/8"-5 1/2 UN	0.50
	RARH1002, 1006, 10010	HP10016	4.96	2 1/2"-8 UN	0.51

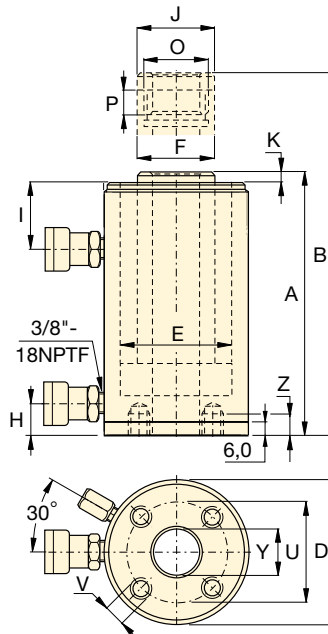


Smooth hollow saddles are standard on all RARH-models.

Steel Base Plate Mounting Holes

Cylinder Model / Capacity tons	Bolt Circle U (in)	Thread V (mm)	Thread Depth ¹⁾ Z (in)
RARH30	4.33	M6	0.47
RARH60	6.30	M6	0.47
RARH100	7.87	M10	0.47
RARH150	9.84	M10	0.47

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



RARH Series



Capacity:
30 - 150 tons

Stroke:
1.97 - 9.84 inches

Center Hole Diameter:
1.34 - 3.11 inches

Maximum Operating Pressure:
10,150 psi



RACH-Series, Single-Acting, Spring Return

To be used when a single-acting pump is available and retraction time is not critical.

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Pump Selection

A double-acting cylinder must be powered by a pump with a 4-way valve.

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Collapsed Height A (in)	Extended Height B (in)	Outside Diameter D (in)	Cylinder Bore Diameter E (in)	Plunger Diameter F (in)	Cyl. Base to Advance Port H (in)	Cyl. Top to Return Port I (in)	Saddle Diameter J (in)	Saddle Protrusion from Plunger K (in)	Plunger Internal Thread O (in)	Plunger Thread Length P (in)	Center Hole Diameter Y (in)	(lbs)	Model Number
8.22	10.19	5.31	3.74	2.95	0.86	2.53	2.49	0.38	1 13/16"-16 UN	0.91	1.34	19.6	RARH302
12.16	18.07	5.31	3.74	2.95	0.86	2.53	2.49	0.38	1 13/16"-16 UN	0.91	1.34	26.2	RARH306
16.10	25.94	5.31	3.74	2.95	0.86	2.53	2.49	0.38	1 13/16"-16 UN	0.91	1.34	32.8	RARH3010
9.68	11.65	7.09	5.12	4.33	1.88	3.28	3.61	0.50	2 3/4"-16 UN	0.79	2.13	37.0	RARH602
13.62	19.52	7.09	5.12	4.33	1.88	3.28	3.61	0.50	2 3/4"-16 UN	0.79	2.13	48.8	RARH606
17.56	27.40	7.09	5.12	4.33	1.88	3.28	3.61	0.50	2 3/4"-16 UN	0.79	2.13	60.7	RARH6010
9.99	11.96	9.25	6.50	5.12	2.41	3.07	4.97	0.53	4"-16 UN	1.06	3.11	63.6	RARH1002
13.92	19.83	9.25	6.50	5.12	2.41	3.07	4.97	0.53	4"-16 UN	1.06	3.11	84.3	RARH1006
17.86	27.70	9.25	6.50	5.12	2.41	3.07	4.97	0.53	4"-16 UN	1.06	3.11	104.9	RARH10010
10.39	12.36	11.02	7.48	5.91	2.41	3.27	5.00	0.74	4 1/4"-12 UN	1.57	3.11	93.3	RARH1502
14.33	20.24	11.02	7.48	5.91	2.41	3.27	5.00	0.74	4 1/4"-12 UN	1.57	3.11	123.6	RARH1506
18.27	28.11	11.02	7.48	5.91	2.41	3.27	5.00	0.74	4 1/4"-12 UN	1.57	3.11	154.0	RARH15010