

RC-Series DUO, Single-Acting Cylinders

▼ From left to right: RC-506, RC-50, RC-2510, RC-154, RC-10010, RC-55, RC-1010



- Unique GR2 Bearing Design, reduces wear, extending life
- Collar threads, plunger threads and base mounting holes enable easy fixturing (on most models)
- Designed for use in all positions
- High strength alloy steel for durability
- Redesigned cylinder thread protector for ease of use
- Heavy-duty, pretensioned spring improves retraction speed
- Baked enamel finish for increased corrosion resistance
- CR-400 coupler and dust cap included on all models
- Plunger wiper reduces contamination, extending cylinder life.



تاسیس و تجهیز ابزار دقیق آر مه
Armecompany.com
09125795160

▼ Foundation repair: to re-stabilize the foundation, the 308 ton silo needed to be lifted, levelled and structurally supported. 25 ton RC-Series hydraulic jacks were attached to a bracket on the top of each steel pier. Powered by a Z-Class pump, the hydraulic jacks applied 20 ton of force at each placement to lift the silo 5,1 cm.



The Industry Standard General Purpose Cylinder



Saddles

All RC cylinders (except RC-50, 101) are equipped with hardened removable grooved saddles. For tilt and flat saddles, see the RC-Series accessory page.

Page: 10



Base Plates

To ensure the stability of cylinders for lifting applications, base plates are available for 10, 25 and 50 ton RC cylinders.

Page: 10



Specialty Attachments

For solving all kinds of application problems, specialty attachments are available for 5, 10 and 25 ton RC cylinders.

Page: 166

▼ Synchronous lifting set-up for 200 ton petrochemical process module using twelve RC-2510 cylinders. To ensure the stability of the cylinders JBI-25 base plates are installed.



Single-Acting, General Purpose Cylinders




GR2 Bearing Technology

The exclusive GR2 is a unique bearing design on RC-Series DUO cylinders which absorbs eccentric load stresses to protect your cylinder against

abrasion, over-extending or plunger blow-outs and jamming or top-end mushrooming. As a result, RC-Series DUO cylinders provide long, trouble-free operation.

▼ QUICK SELECTION CHART

For complete technical information see next page.

Cylinder Capacity	Stroke	Model Number	Cylinder Effective Area	Oil Capacity	Collapsed Height	
ton (kN)	(mm)		(cm ²)	(cm ³)	(mm)	(kg)
5 (45)	16	RC-50	6,5	10	41	1,0
	25	RC-51	6,5	16	110	1,0
	76	RC-53	6,5	50	165	1,5
	127	RC-55 *	6,5	83	215	1,9
	177	RC-57	6,5	115	273	2,4
10 (101)	232	RC-59	6,5	151	323	2,8
	26	RC-101	14,5	38	89	1,8
	54	RC-102 *	14,5	78	121	2,3
	105	RC-104	14,5	152	171	3,3
	156	RC-106 *	14,5	226	247	4,4
	203	RC-108	14,5	294	298	5,4
	257	RC-1010 *	14,5	373	349	6,4
15 (142)	304	RC-1012	14,5	441	400	6,8
	356	RC-1014	14,5	516	450	8,2
	25	RC-151	20,3	51	124	3,3
	51	RC-152	20,3	104	149	4,1
	101	RC-154 *	20,3	205	200	5,0
	152	RC-156 *	20,3	308	271	6,8
	203	RC-158	20,3	411	322	8,2
	254	RC-1510	20,3	516	373	9,5
25 (232)	305	RC-1512	20,3	619	423	10,9
	356	RC-1514	20,3	723	474	11,8
	26	RC-251	33,2	86	139	5,9
	50	RC-252 *	33,2	166	165	6,4
	102	RC-254 *	33,2	339	215	8,2
	158	RC-256 *	33,2	525	273	10,0
	210	RC-258	33,2	697	323	12,2
30(295)	261	RC-2510	33,2	867	374	14,1
	311	RC-2512	33,2	1033	425	16,3
	362	RC-2514 *	33,2	1202	476	17,7
	209	RC-308	42,1	880	387	18,1
	50 (498)	51	RC-502	71,2	362	176
101		RC-504	71,2	719	227	19,1
159		RC-506 *	71,2	1131	282	23,1
337		RC-5013	71,2	2399	460	37,6
75 (718)	156	RC-756	102,6	1601	285	29,5
	333	RC-7513	102,6	3417	492	59,0
95 (933)	168	RC-1006	133,3	2239	357	59,0
	260	RC-10010	133,3	3466	449	72,6

* Available as set, see note on this page.

RC Series



Capacity:

5 - 95 ton

Stroke:

16 - 362 mm

Maximum Operating Pressure:

700 bar



Think Safety

Manufacturer's rating of load and stroke are maximum safe limits.

Good practice encourages using only 80% of these ratings.

Page: 264



Lightweight Aluminium Cylinders

If you need a higher cylinder capacity-to-weight-ratio the RAC-Series are the perfect choice.

Page: 13



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.

Page: 121



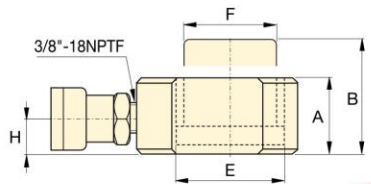
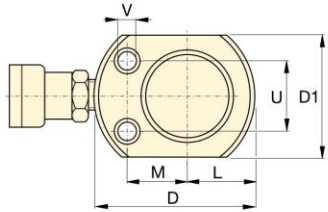
Cylinder-Pump Sets

All cylinders marked with an * are available as sets (cylinder, gauge, couplers, hose and pump) for your ordering convenience.

Page: 58

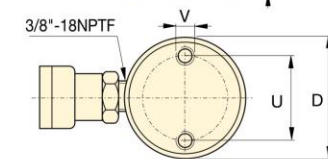
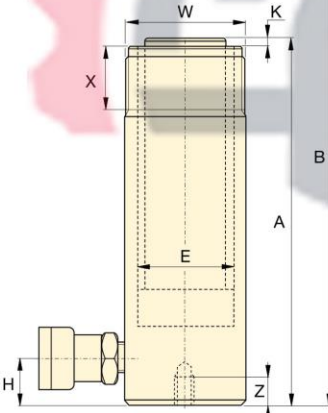
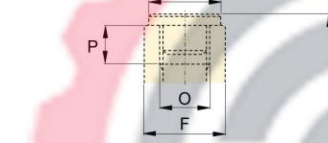
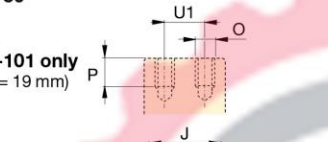
RC-Series DUO, Single-Acting Cylinders

ENERPAC
POWERFUL SOLUTIONS. GLOBAL FORCE.

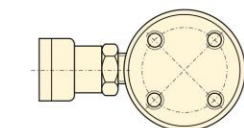


RC-50

RC-101 only
(U1 = 19 mm)



RC-51 - RC-5013



RC-1006, RC-10010



Speed Chart

See the Enerpac Cylinder Speed Chart in our 'Yellow Pages' to determine your approximate cylinder speed.

Page: 273

◀ For full features see previous page.

Cylinder Capacity	Stroke	Model Number	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Outside Dia.	
ton (kN)	(mm)		(cm ²)	(cm ³)	A (mm)	B (mm)	D (mm)	
5 (45)	16	RC-50 ²⁾	6,5	10	41	57	58 ³⁾	
	25	RC-51	6,5	16	110	135	38	
	76	RC-53	6,5	50	165	241	38	
	127	RC-55 ¹⁾	6,5	83	215	342	38	
	177	RC-57	6,5	115	273	450	38	
10 (101)	232	RC-59	6,5	151	323	555	38	
	26	RC-101 ⁴⁾	14,5	38	89	115	57	
	54	RC-102 ¹⁾	14,5	78	121	175	57	
	105	RC-104	14,5	152	171	276	57	
	156	RC-106 ¹⁾	14,5	226	247	403	57	
	203	RC-108	14,5	294	298	501	57	
	257	RC-1010 ¹⁾	14,5	373	349	606	57	
15 (142)	304	RC-1012	14,5	441	400	704	57	
	356	RC-1014	14,5	516	450	806	57	
	25	RC-151	20,3	51	124	149	69	
	51	RC-152	20,3	104	149	200	69	
	101	RC-154 ¹⁾	20,3	205	200	301	69	
	152	RC-156 ¹⁾	20,3	308	271	423	69	
	203	RC-158	20,3	411	322	525	69	
25 (232)	254	RC-1510	20,3	516	373	627	69	
	305	RC-1512	20,3	619	423	728	69	
	356	RC-1514	20,3	723	474	830	69	
	26	RC-251	33,2	86	139	165	85	
	50	RC-252 ¹⁾	33,2	166	165	215	85	
	102	RC-254 ¹⁾	33,2	339	215	317	85	
	158	RC-256 ¹⁾	33,2	525	273	431	85	
30 (295)	210	RC-258	33,2	697	323	533	85	
	261	RC-2510	33,2	867	374	635	85	
	311	RC-2512	33,2	1033	425	736	85	
	362	RC-2514 ¹⁾	33,2	1202	476	838	85	
	209	RC-308	42,1	880	387	596	101	
	50 (498)	51	RC-502	71,2	362	176	227	127
		101	RC-504	71,2	719	227	328	127
159		RC-506 ¹⁾	71,2	1131	282	441	127	
337		RC-5013	71,2	2399	460	797	127	
75 (718)	156	RC-756	102,6	1601	285	441	146	
	333	RC-7513	102,6	3417	492	825	146	
95 (933)	168	RC-1006	133,3	2239	357	525	177	
	260	RC-10010	133,3	3466	449	709	177	

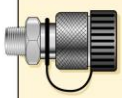
¹⁾ Available as set, see note on page 7.

²⁾ RC-50 cylinder has a non removable grooved saddle and no collar thread.

³⁾ RC-50: D1 = 41 mm, L = 20 mm, M = 25 mm.

⁴⁾ RC-101 has plunger thread and non-removable saddle.

Single-Acting, General Purpose Cylinders



Couplers Included!
CR-400 couplers included on all models. Fits all HC-Series hoses.

Capacity:
5 - 95 ton

Stroke:
16 - 362 mm

Maximum Operating Pressure:
700 bar

RC Series



Cylinder Bore Dia. E (mm)	Plunger Dia. F (mm)	Base to Adv. Port H (mm)	Saddle Dia. J (mm)	Saddle Protr. from Plgr. K (mm)	Plunger Internal Thread O	Plunger Thread Length P (mm)	Base Mounting Holes			Collar Thread W	Collar Thread Length X (mm)	Weight (kg)	Model Number
							Bolt Circle U (mm)	Thread V	Thd. Depth Z (mm)				
28,7	25,4	19	25	6	3/4" - 16 UN	14	25	5,6 mm	—	—	—	1,0	RC-50 ²⁾
28,7	25,4	19	25	6	3/4" - 16 UN	14	25	1/4" - 20 UN	14	1 1/2" - 16 UN	28	1,0	RC-51
28,7	25,4	19	25	6	3/4" - 16 UN	14	25	1/4" - 20 UN	14	1 1/2" - 16 UN	28	1,5	RC-53
28,7	25,4	19	25	6	3/4" - 16 UN	14	25	1/4" - 20 UN	14	1 1/2" - 16 UN	28	1,9	RC-55 ¹⁾
28,7	25,4	19	25	6	3/4" - 16 UN	16	25	1/4" - 20 UN	14	1 1/2" - 16 UN	28	2,4	RC-57
28,7	25,4	19	25	6	3/4" - 16 UN	16	25	1/4" - 20 UN	14	1 1/2" - 16 UN	28	2,8	RC-59
42,9	38,1	19	—	—	#10 - 24 UN	6	39	5/16" - 18 UN	12	2 1/4" - 14 UN	26	1,8	RC-101 ⁴⁾
42,9	38,1	19	35	6	1" - 8 UN	19	39	5/16" - 18 UN	12	2 1/4" - 14 UN	26	2,3	RC-102 ¹⁾
42,9	38,1	19	35	6	1" - 8 UN	19	39	5/16" - 18 UN	12	2 1/4" - 14 UN	26	3,3	RC-104
42,9	38,1	19	35	6	1" - 8 UN	19	39	5/16" - 18 UN	12	2 1/4" - 14 UN	26	4,4	RC-106 ¹⁾
42,9	38,1	19	35	6	1" - 8 UN	19	39	5/16" - 18 UN	12	2 1/4" - 14 UN	26	5,4	RC-108
42,9	38,1	19	35	6	1" - 8 UN	19	39	5/16" - 18 UN	12	2 1/4" - 14 UN	26	6,4	RC-1010 ¹⁾
42,9	38,1	19	35	6	1" - 8 UN	19	39	5/16" - 18 UN	12	2 1/4" - 14 UN	26	6,8	RC-1012
42,9	38,1	19	35	6	1" - 8 UN	19	39	5/16" - 18 UN	12	2 1/4" - 14 UN	26	8,2	RC-1014
50,8	41,4	19	38	9	1" - 8 UN	25	48	3/8" - 16 UN	12	2 3/4" - 16 UN	30	3,3	RC-151
50,8	41,4	19	38	9	1" - 8 UN	22	48	3/8" - 16 UN	12	2 3/4" - 16 UN	30	4,1	RC-152
50,8	41,4	19	38	9	1" - 8 UN	22	48	3/8" - 16 UN	12	2 3/4" - 16 UN	30	5,0	RC-154 ¹⁾
50,8	41,4	25	38	9	1" - 8 UN	25	48	3/8" - 16 UN	12	2 3/4" - 16 UN	30	6,8	RC-156 ¹⁾
50,8	41,4	25	38	9	1" - 8 UN	25	48	3/8" - 16 UN	12	2 3/4" - 16 UN	30	8,2	RC-158
50,8	41,4	25	38	9	1" - 8 UN	25	48	3/8" - 16 UN	12	2 3/4" - 16 UN	30	9,5	RC-1510
50,8	41,4	25	38	9	1" - 8 UN	25	48	3/8" - 16 UN	12	2 3/4" - 16 UN	30	10,9	RC-1512
50,8	41,4	25	38	9	1" - 8 UN	25	48	3/8" - 16 UN	12	2 3/4" - 16 UN	30	11,8	RC-1514
65,0	57,2	25	50	10	1 1/2" - 16 UN	25	58	1/2" - 13 UN	19	3 5/16" - 12 UN	49	5,9	RC-251
65,0	57,2	25	50	10	1 1/2" - 16 UN	25	58	1/2" - 13 UN	19	3 5/16" - 12 UN	49	6,4	RC-252 ¹⁾
65,0	57,2	25	50	10	1 1/2" - 16 UN	25	58	1/2" - 13 UN	19	3 5/16" - 12 UN	49	8,2	RC-254 ¹⁾
65,0	57,2	25	50	10	1 1/2" - 16 UN	25	58	1/2" - 13 UN	19	3 5/16" - 12 UN	49	10,0	RC-256 ¹⁾
65,0	57,2	25	50	10	1 1/2" - 16 UN	25	58	1/2" - 13 UN	19	3 5/16" - 12 UN	49	12,2	RC-258
65,0	57,2	25	50	10	1 1/2" - 16 UN	25	58	1/2" - 13 UN	19	3 5/16" - 12 UN	49	14,1	RC-2510
65,0	57,2	25	50	10	1 1/2" - 16 UN	25	58	1/2" - 13 UN	19	3 5/16" - 12 UN	49	16,3	RC-2512
65,0	57,2	25	50	10	1 1/2" - 16 UN	25	58	1/2" - 13 UN	19	3 5/16" - 12 UN	49	17,7	RC-2514 ¹⁾
73,2	57,2	57	50	10	1 1/2" - 16 UN	25	—	—	—	3 5/16" - 12 UN	49	18,1	RC-308
95,2	79,5	33	71	2	—	—	95	1/2" - 13 UN	19	5" - 12 UN	55	15,0	RC-502
95,2	79,5	33	71	2	—	—	95	1/2" - 13 UN	19	5" - 12 UN	55	19,1	RC-504
95,2	79,5	35	71	2	—	—	95	1/2" - 13 UN	19	5" - 12 UN	55	23,1	RC-506 ¹⁾
95,2	79,5	35	71	2	—	—	95	1/2" - 13 UN	19	5" - 12 UN	55	37,6	RC-5013
114,3	95,2	30	71	5	—	—	—	—	—	5 3/4" - 12 UN	44	29,5	RC-756
114,3	95,2	30	71	5	—	—	—	—	—	5 3/4" - 12 UN	44	59,0	RC-7513
130,3	104,9	41	71	2	—	—	140	3/4" - 10 UN	25	6 7/8" - 12 UN	44	59,0	RC-1006
130,3	104,9	41	71	2	—	—	140	3/4" - 10 UN	25	6 7/8" - 12 UN	44	72,6	RC-10010

Accessories for RC-Series Cylinders



▼ SELECTION CHART

For use with Cylinder Capacity	Saddles			Base Plate	Mounting Block	Clevis Eyes	
	Flat	Grooved ¹⁾	Tilt			Base ⁴⁾	Plunger
ton (kN)							
5 (45)	A-53F ²⁾	A-53G ²⁾	-	-	RB-5 ²⁾ , AW-51 ²⁾ , AW-53 ²⁾	REB-5 ²⁾	REP-5 ²⁾
10 (101)	A-12 ⁵⁾ , A-102F ³⁾	A-102G ³⁾	CAT-10 ³⁾	JB-10 ³⁾	RB-10, AW-102	REB-10	REP-10 ³⁾
15 (142)	-	A-152G	CAT-10	-	RB-15	REB-15	REP-10
25 (232)	A-29 ⁵⁾	A-252G	CAT-50	JB-25	RB-25	REB-25	REP-25
30 (295)	A-29 ⁵⁾	A-252G	CAT-50	-	RB-25	-	REP-25
50 (498)	-	-	CAT-100	JB-50	-	-	-
75 (718)	-	-	CAT-100	-	-	-	-
95 (933)	-	-	CAT-100	-	-	-	-

¹⁾ Standard on 5-30 ton RC-cylinders ²⁾ Except RC-50 ³⁾ Except RC-101 ⁴⁾ Mounting screws are included. ⁵⁾ Used with Bender Sets.

▼ DIMENSION CHARTS

Model Number	Saddle Dimensions (mm)			A-53F, A-102F A-12, A-29	Model Number	Tilt Saddle Dimensions (mm)				
	A	B	C			A	B	C		
Flat					Tilt					
A-53F	25	6	17		CAT-10	35	20	22		
A-102F	35	6	22		CAT-50	50	23	35		
A-12	51	48	1"-8 UNC		Tilt					
A-29	51	48	1 1/2"-16 UNC		CAT-100	71	24	-		
Grooved					Tilt					
A-53G	25	6	17	CAT-100				71	24	-
A-102G	35	6	22							
A-152G	38	9	22							
A-252G	50	9	35							

Model Number	Base Plate Dimensions (mm)						
	A	B	C	D	E	JBI-10, 25	JBI-50
JB-10	228	228	135	58	20		
JB-25	279	279	140	86	26		
JB-50	304	15	95	131	31		

Model Number	Mounting Block Dimensions (mm)												
	A	B	C	D	E	F	G	H	RB-5, -10	RB-15, -25	AW-51	AW-53	AW-102 (l=4,8)
RB-5	1 1/2"-16UN	88	76	-	25	-	-	-					
AW-51	1 1/2"-16UN	70	59	10	24	54	1/4"-16 UN	41					
AW-53	1 1/2"-16UN	72	7	7	19	57	1/4"-20 UN	10					
RB-10	2 1/4"-14UN	114	88	-	25	-	-	-					
AW-102	2 1/4"-14UN	100	82	16	30	76	7/16"-20 UN	58					
RB-15	2 3/4"-16UN	101	114	-	38	-	-	-					
RB-25	3 3/8"-12UN	127	165	-	50	-	-	-					

Type	Model Number	Clevis Eye Dimensions (mm)						Pin-to-Pin * (mm)	
		A	B	C	D	E	F		
Base ⁴⁾	REB-5	44	47	14	16	16	25	60,2	
	REB-10	63	66	25	22	25	35	78,0	
	REB-15	76	66	25	22	25	35	78,0	
	REB-25	95	79	38	31	31	41	87,6	
Plunger	REP-5	28	45	14	16	16	19	-	
	REP-10	42	61	25	22	25	28	-	
	REP-25	57	71	38	31	31	35	-	

⁴⁾ Mounting screws are included.

* Pin to Pin – REB and REP Clevises fitted. Add cylinder collapsed height.

Extreme Environment Products

▼ From left to right: P-142ALSS, P-392ALSS, V-152NV, V-66NV, RC-256NV, RC-106NV, RC-53NV



RC, P, V Series

Cylinder Capacity:
5 - 25 ton

Stroke:
51 - 156 mm

Maximum Operating Pressure:
700 bar



Applications

For use in wet environments such as food processing, pulp and paper, mining, construction and applications in high temperature or in welding areas.

- Corrosion resistant, nickel-plated valves and cylinders
- Stainless steel pump inserts will not corrode
- Viton® Seals provide heat and chemical resistance
- Anodized aluminum pump reservoirs and plastic encapsulated pump bodies resist wet environments
- Two-speed operation reduces pump handle strokes 78% compared to single-speed pumps
- Pump handles lock for easy carrying.





Multifluid Hand Pumps



MP-Series corrosion resistant hand pumps for low pressure filling and high pressure testing applications, suitable for a wide range of fluids.



Page: 78



تامین و تجهیز ابزار دقیق آرمه
Armecompany.com
09125795160

	Cylinder Capacity	Stroke	Model Number *	Oil Capacity	Pressure Rating	Collapsed Height	Extended Height	Outside Diameter	
	ton (kN)	(mm)		(cm ³)	(bar)	(mm)	(mm)	(mm)	(kg)
	5 (45)	76	RC-53NV	50	700	165	241	38	1,5
	10 (101)	51	RC-102NV	78	700	121	175	57	2,3
	10 (101)	156	RC-106NV	225	700	247	403	57	4,4
	25 (232)	156	RC-256NV	528	700	273	431	85	10,0

	Pump Type	Oil Capacity	Model Number *	Pressure Rating	Oil Displacement per Stroke	Port Dimension	Piston Stroke	
		(cm ³)		(bar)	(cm ³)	(NPTF)	(mm)	(kg)
	Two Speed	327	P-142ALSS	14 / 700	3,62 / 0,90	1/4"-18	12,7	2,0
		901	P-392ALSS	14 / 700	11,26 / 2,47	3/8"-18	25,4	4,1

	Valve Type	Model Number *	Function	Pressure Rating (bar)	
		Manual Check Valve	V-66NV *	Load holding with cylinders	700
	Pressure Relief Valve	V-152NV *	Limits system pressure, ± 3% repeatability	55 -700	1,6

* For cylinder details see pages 7-9; for pump details see pages 72-73; for valve details see pages 136-137.