

▼ Shown from left to right: RC2510, RC53, RC1002, RC108, RC5010, and RC156



- **TRIO Bearing System with hardened composite wear bands for optimal side-load resistance**
- **Strengthened TRIO Stop Ring improves durability and side-load resistance**
- **TRIO Hybrid pre-tensioned spring system provides faster retraction**
- **High-grade polyethylene seals for low wear and long service life**
- **Plunger wiper reduces contamination, extending cylinder life**
- **Collar and plunger threads and base mounting holes enable easy fixturing (on most models)**
- **Certified lifting eyes on cylinder models weighing over 55 lbs. Interchangeable with optional CHM6 carrying handle**
- **Designed for use in all positions**
- **Baked enamel finish for increased corrosion resistance**
- **CR-400 coupler and dust cap included on all models**

The Industry Standard General Purpose Cylinder



Saddles

All **RC** cylinders (except RC50, 101) are equipped with hardened removable grooved saddles. For tilt and flat saddles, see the RC-Series accessory page.

All CATS-Series Tilt Saddles use a nitrocarburization surface treatment for improved corrosion protection.

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Base Plates

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

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Specialty Attachments

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

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▼ To re-stabilize the foundation, the 308-ton silo needed to be lifted, levelled and structurally supported. Twenty-five ton RC-Series hydraulic cylinders were attached to a bracket on the top of each steel pier. Powered by a Z-Class pump, the hydraulic cylinders applied 20 tons of force at each placement to lift the silo two inches.



▼ Synchronous lifting set-up for 200-ton petrochemical process module using twelve RC2510 cylinders. To ensure the stability of the cylinders JBI25 base plates are installed.



Single-Acting, General Purpose Cylinders



Optional Carrying Handle CHM6

Certified lifting eyes on cylinder models weighing 55 lbs. and above (RC5010 and heavier models). Interchangeable with optional carrying handle. Order model number **CHM6**.

▼ QUICK SELECTION CHART

For complete technical information see next page.

Cylinder Capacity tons (maximum)	Stroke (in)	Model Number	Cylinder Effective Area (in ²)	Oil Capacity (in ³)	Collapsed Height (in)	Weight (lbs)
5 (4.9)	0.63	RC50	0.99	0.62	1.63	2.2
	1.00	RC51	0.99	0.99	4.34	2.3
	3.00	RC53	0.99	2.97	6.50	3.3
	5.00	RC55*	0.99	4.95	8.50	4.1
	7.00	RC57	0.99	6.93	10.75	5.3
	9.13	RC59	0.99	9.04	12.75	6.1
10 (11.2)	1.00	RC101	2.24	2.24	3.53	4.0
	2.13	RC102*	2.24	4.76	4.78	5.1
	4.13	RC104	2.24	9.23	6.75	7.2
	6.13	RC106*	2.24	13.70	9.75	9.8
	8.00	RC108	2.24	17.88	11.75	12.0
	10.13	RC1010*	2.24	22.64	13.75	14.0
	12.00	RC1012	2.24	26.82	15.75	15.0
	14.00	RC1014	2.24	31.29	17.75	18.0
15 (15.7)	1.00	RC151	3.14	3.14	4.88	7.2
	2.00	RC152	3.14	6.28	5.88	9.0
	4.00	RC154*	3.14	12.57	7.88	11.0
	6.00	RC156*	3.14	18.85	10.69	15.0
	8.00	RC158	3.14	25.13	12.69	18.0
	10.00	RC1510	3.14	31.42	14.69	21.0
	12.00	RC1512	3.14	37.70	16.69	24.0
	14.00	RC1514	3.14	43.98	18.69	26.0
25 (25.8)	1.00	RC251	5.16	5.16	5.50	13.0
	2.00	RC252*	5.16	10.32	6.50	14.0
	4.00	RC254*	5.16	20.64	8.50	18.0
	6.25	RC256*	5.16	32.25	10.75	22.0
	8.25	RC258	5.16	42.56	12.75	27.0
	10.25	RC2510	5.16	52.88	14.75	31.0
	12.25	RC2512	5.16	63.20	16.75	36.0
	14.25	RC2514*	5.16	73.52	18.75	39.0
30 (32.4)	8.25	RC308	6.49	53.56	15.25	40.0
50 (55.2)	2.00	RC502	11.04	22.09	6.94	33.0
	4.00	RC504	11.04	44.18	8.94	42.0
	6.25	RC506*	11.04	69.03	11.13	51.0
	10.25	RC5010	11.04	113.21	15.13	70.0
	13.25	RC5013	11.04	146.34	18.13	83.0
75 (79.5)	6.13	RC756	15.90	97.49	11.25	65.0
	13.13	RC7513	15.90	208.82	19.38	130.0
100 (103.1)	2.00	RC1002	20.63	41.26	8.63	81.00
	6.63	RC1006	20.63	136.77	14.06	130.0
	10.25	RC10010	20.63	211.45	17.69	160.0

* Available as a set. See note on this page.

RC-TRIO Series



Capacity:

5 - 100 tons

Stroke:

0.63 - 14.25 inches

Maximum Operating Pressure:

10,000 psi



Think Safety

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

Good practice encourages using only 80% of these ratings!

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Lightweight Aluminum Cylinders

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

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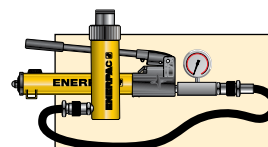


Gauges

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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Pump and Cylinder Sets

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

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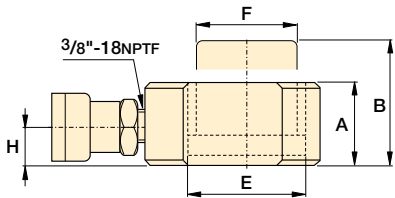
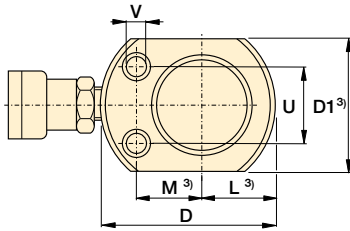


Speed Chart and Pump Selection Chart

See the Enerpac Cylinder Speed Chart in our "Yellow Pages" to determine your approximate cylinder speed. See Pump Selection Tool on website to choose the most suitable pump for your application.

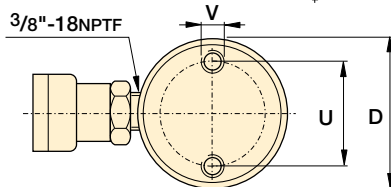
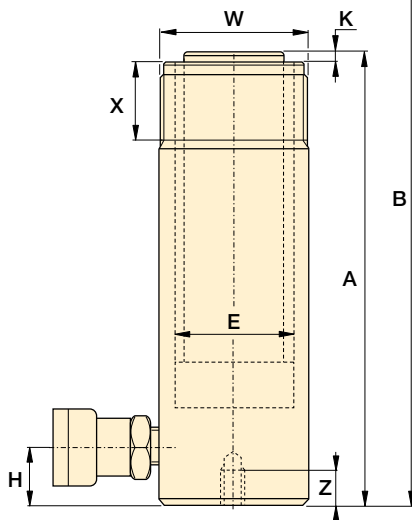
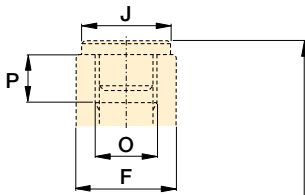
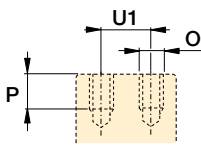
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◀ For full features see page 6.

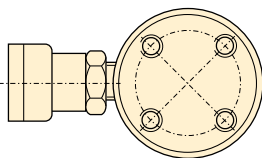


RC50

RC101 only
(U1 = 0.75 inch)



RC51 to RC5013 models



RC1002 and RC10010 models

Cylinder Capacity	Stroke	Model Number	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Outside Diameter
tons (maximum)	(in)		(in ²)	(in ³)	A (in)	B (in)	D (in)
5 (4.9)	0.63	RC50 ²⁾	0.99	0.62	1.63	2.25	2.31 ³⁾
	1.00	RC51	0.99	0.99	4.34	5.34	1.50
	3.00	RC53	0.99	2.97	6.50	9.50	1.50
	5.00	RC55 ¹⁾	0.99	4.95	8.50	13.50	1.50
	7.00	RC57	0.99	6.93	10.75	17.75	1.50
10 (11.2)	9.13	RC59	0.99	9.04	12.75	21.88	1.50
	1.00	RC101 ⁴⁾	2.24	2.24	3.53	4.53	2.25
	2.13	RC102 ¹⁾	2.24	4.76	4.78	6.91	2.25
	4.13	RC104	2.24	9.23	6.75	10.88	2.25
	6.13	RC106 ¹⁾	2.24	13.70	9.75	15.88	2.25
	8.00	RC108	2.24	17.88	11.75	19.75	2.25
	10.13	RC1010 ¹⁾	2.24	22.64	13.75	23.88	2.25
	12.00	RC1012	2.24	26.82	15.75	27.75	2.25
15 (15.7)	14.00	RC1014	2.24	31.29	17.75	31.75	2.25
	1.00	RC151	3.14	3.14	4.88	5.88	2.75
	2.00	RC152	3.14	6.28	5.88	7.88	2.75
	4.00	RC154 ¹⁾	3.14	12.57	7.88	11.88	2.75
	6.00	RC156*	3.14	18.85	10.69	16.69	2.75
	8.00	RC158	3.14	25.13	12.69	20.69	2.75
	10.00	RC1510	3.14	31.42	14.69	24.69	2.75
25 (25.8)	12.00	RC1512	3.14	37.70	16.69	28.69	2.75
	14.00	RC1514	3.14	43.98	18.69	32.69	2.75
	1.00	RC251	5.16	5.16	5.50	6.50	3.38
	2.00	RC252 ¹⁾	5.16	10.32	6.50	8.50	3.38
	4.00	RC254 ¹⁾	5.16	20.64	8.50	12.50	3.38
	6.25	RC256 ¹⁾	5.16	32.25	10.75	17.00	3.38
	8.25	RC258	5.16	42.56	12.75	21.00	3.38
30 (32.4)	10.25	RC2510	5.16	52.88	14.75	25.00	3.38
	12.25	RC2512	5.16	63.20	16.75	29.00	3.38
	14.25	RC2514 ¹⁾	5.16	73.52	18.75	33.00	3.38
	8.25	RC308	6.49	53.56	15.25	23.50	4.00
	50 (55.2)	2.00	RC502	11.04	22.09	6.94	8.94
4.00		RC504	11.04	44.18	8.94	12.94	5.00
6.25		RC506 ¹⁾	11.04	69.03	11.13	17.38	5.00
10.25		RC5010	11.04	113.21	15.13	25.38	5.00
75 (79.5)	13.25	RC5013	11.04	146.34	18.13	31.38	5.00
	6.13	RC756	15.90	97.49	11.25	17.38	5.75
100 (103.1)	13.13	RC7513	15.90	208.82	19.38	32.51	5.75
	2.00	RC1002	20.63	41.26	8.63	10.63	7.00
	6.63	RC1006	20.63	136.77	14.06	20.69	7.00
	10.25	RC10010	20.63	211.45	17.69	27.94	7.00

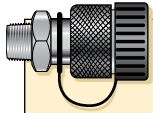
¹⁾ Available as a set. See page 62.

²⁾ RC50 cylinder has non-removable grooved saddle and no collar thread.

³⁾ RC50: D1 = 1.63 inch, L = 0.81 inch, M = 1.00 inch.

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

Single-Acting, General Purpose Cylinders



Couplers Included!
CR400 couplers included on all models. Fits all HC-Series hoses.

Capacity:
5 - 100 tons

Stroke:
0.63 - 14.25 inches

Maximum Operating Pressure:
10,000 psi

RC-TRIO Series



Cylinder Bore Diam.	Plunger Dia.	Base to Adv. Port	Saddle Dia.	Saddle Protusion from Plngr.	Plunger Internal Thread	Plunger Thread Length	Base Mounting Holes			Collar Thread	Collar Thread Length	Weight (lbs)	Model Number
							Bolt Circle U (in)	Thread V (in)	Thread Depth Z (in)				
E (in)	F (in)	H (in)	J (in)	K (in)	O (in)	P (in)	U (in)	V (in)	Z (in)	W (in)	X (in)		
1.13	1.00	0.75	2)	2)	2)	2)	1.13	0.22	—	—	—	2.2	RC50 ²⁾
1.13	1.00	0.75	1.00	0.25	3/4"-16UN	0.56	1.00	1/4"-20UNC	0.56	1 1/2"-16UN	1.13	2.3	RC51
1.13	1.00	0.75	1.00	0.25	3/4"-16UN	0.56	1.00	1/4"-20UNC	0.56	1 1/2"-16UN	1.13	3.3	RC53
1.13	1.00	0.75	1.00	0.25	3/4"-16UN	0.56	1.00	1/4"-20UNC	0.56	1 1/2"-16UN	1.13	4.1	RC55 ¹⁾
1.13	1.00	0.75	1.00	0.25	3/4"-16UN	0.63	1.00	1/4"-20UNC	0.56	1 1/2"-16UN	1.13	5.3	RC57
1.13	1.00	0.75	1.00	0.25	3/4"-16UN	0.63	1.00	1/4"-20UNC	0.56	1 1/2"-16UN	1.13	6.1	RC59
1.69	1.50	0.75	—	—	#10-24UN	0.25	1.56	5/16"-18UNC	0.50	2 1/4"-14UN	1.06	4.0	RC101 ⁴⁾
1.69	1.50	0.75	1.38	0.25	1"-8UN	0.75	1.56	5/16"-18UNC	0.50	2 1/4"-14UN	1.13	5.1	RC102 ¹⁾
1.69	1.50	0.75	1.38	0.25	1"-8UN	0.75	1.56	5/16"-18UNC	0.50	2 1/4"-14UN	1.06	7.2	RC104
1.69	1.50	0.75	1.38	0.25	1"-8UN	0.75	1.56	5/16"-18UNC	0.50	2 1/4"-14UN	1.13	9.8	RC106 ¹⁾
1.69	1.50	0.75	1.38	0.25	1"-8UN	0.75	1.56	5/16"-18UNC	0.50	2 1/4"-14UN	1.06	12	RC108
1.69	1.50	0.75	1.38	0.25	1"-8UN	0.75	1.56	5/16"-18UNC	0.50	2 1/4"-14UN	1.13	14	RC1010 ¹⁾
1.69	1.50	0.75	1.38	0.25	1"-8UN	0.75	1.56	5/16"-18UNC	0.50	2 1/4"-14UN	1.06	15	RC1012
1.69	1.50	0.75	1.38	0.25	1"-8UN	0.75	1.56	5/16"-18UNC	0.50	2 1/4"-14UN	1.06	18	RC1014
2.00	1.63	0.75	1.50	0.38	1"-8UN	1.00	1.88	3/8"-16UNC	0.50	2 3/4"-16UN	1.19	7.2	RC151
2.00	1.63	0.75	1.50	0.38	1"-8UN	1.00	1.88	3/8"-16UNC	0.50	2 3/4"-16UN	1.19	9	RC152
2.00	1.63	0.75	1.50	0.38	1"-8UN	1.00	1.88	3/8"-16UNC	0.50	2 3/4"-16UN	1.19	11	RC154 ¹⁾
2.00	1.63	1.00	1.50	0.38	1"-8UN	1.00	1.88	3/8"-16UNC	0.50	2 3/4"-16UN	1.19	15	RC156 ¹⁾
2.00	1.63	1.00	1.50	0.38	1"-8UN	1.00	1.88	3/8"-16UNC	0.50	2 3/4"-16UN	1.19	18	RC158
2.00	1.63	1.00	1.50	0.38	1"-8V	1.00	1.88	3/8"-16UNC	0.50	2 3/4"-16UN	1.19	21	RC1510
2.00	1.63	1.00	1.50	0.38	1"-8UN	1.00	1.88	3/8"-16UNC	0.50	2 3/4"-16UN	1.19	24	RC1512
2.00	1.63	1.00	1.50	0.38	1"-8UN	1.00	1.88	3/8"-16UNC	0.50	2 3/4"-16UN	1.19	26	RC1514
2.56	2.25	1.00	2.00	0.41	1 1/2"-16UN	1.00	2.31	1/2"-13UNC	0.75	3 5/16"-12UN	1.94	13	RC251
2.56	2.25	1.00	2.00	0.41	1 1/2"-16UN	1.00	2.31	1/2"-13UNC	0.75	3 5/16"-12UN	1.94	14	RC252 ¹⁾
2.56	2.25	1.00	2.00	0.41	1 1/2"-16UN	1.00	2.31	1/2"-13UNC	0.75	3 5/16"-12UN	1.94	18	RC254 ¹⁾
2.56	2.25	1.00	2.00	0.41	1 1/2"-16UN	1.00	2.31	1/2"-13UNC	0.75	3 5/16"-12UN	1.94	22	RC256 ¹⁾
2.56	2.25	1.00	2.00	0.41	1 1/2"-16UN	1.00	2.31	1/2"-13UNC	0.75	3 5/16"-12UN	1.94	27	RC258
2.56	2.25	1.00	2.00	0.41	1 1/2"-16UN	1.00	2.31	1/2"-13UNC	0.75	3 5/16"-12UN	1.94	31	RC2510
2.56	2.25	1.00	2.00	0.41	1 1/2"-16UN	1.00	2.31	1/2"-13UNC	0.75	3 5/16"-12UN	1.94	36	RC2512
2.56	2.25	1.00	2.00	0.41	1 1/2"-16UN	1.00	2.31	1/2"-13UNC	0.75	3 5/16"-12UN	1.94	39	RC2514 ¹⁾
2.88	2.25	1.13	2.00	0.41	1 1/2"-16UN	1.00	2.31	1/2"-13UNC	0.63	3 5/16"-12UN	1.94	40	RC308
3.75	3.13	1.31	2.81	0.11	—	—	3.75	1/2"-13UNC	0.75	5"-12UN	2.19	33	RC502
3.75	3.13	1.31	2.81	0.11	—	—	3.75	1/2"-13UNC	0.75	5"-12UN	2.19	42	RC504
3.75	3.13	1.38	2.81	0.11	—	—	3.75	1/2"-13UNC	0.75	5"-12UN	2.19	51	RC506 ¹⁾
3.75	3.13	1.38	2.81	0.11	—	—	3.75	1/2"-13UNC	0.75	5"-12UN	2.19	70	RC5010
3.75	3.13	1.38	2.81	0.11	—	—	3.75	1/2"-13UNC	0.75	5"-12UN	2.19	83	RC5013
4.50	3.75	1.19	2.81	0.11	—	—	4.50	5/8"-11UNC	0.63	5 3/4"-12UN	1.75	65	RC756
4.50	3.75	1.19	2.81	0.11	—	—	4.50	5/8"-11UNC	0.63	5 3/4"-12UN	1.75	130	RC7513
5.13	4.13	1.63	2.81	0.11	—	—	5.50	3/4"-10UNC	1.00	6 7/8"-12UN	1.75	81	RC1002
5.13	4.13	1.63	2.81	0.11	—	—	5.50	3/4"-10UNC	1.00	6 7/8"-12UN	1.75	130	RC1006
5.13	4.13	1.63	2.81	0.11	—	—	5.50	3/4"-10UNC	1.00	6 7/8"-12UN	1.75	160	RC10010

▼ SELECTION CHART

For Use with Cylinder Capacity (tons)	Saddles			Base Plate	Mounting Block	Clevis Eyes	
	Flat	Grooved ¹⁾	Tilt			Base ⁴⁾	Plunger
5	A53F ²⁾	A53G ²⁾	-	-	RB5 ²⁾ , AW51 ²⁾ , AW53 ²⁾	REB5 ²⁾	REP5 ²⁾
10	A12 ³⁾ , A102F ³⁾	A102G ³⁾	CATS12 ³⁾	JBI10	RB10, AW102	REB10	REP10 ³⁾
15	-	A152G	CATS12	-	RB15	REB15	REP10
25	A29 ⁽⁵⁾	A252G	CATS52	JBI25	RB25	REB25	REP25
30	A29 ⁽⁵⁾	A252G	CATS52	-	RB25	-	REP25
50	-	-	CATS100	JBI50	-	-	-
75	-	-	CATS100	-	-	-	-
95	-	-	CATS100	-	-	-	-

¹⁾ Standard on 5-30 ton RC-cylinders ²⁾ Except RC50 ³⁾ Except RC101 ⁴⁾ Mounting screws are included ⁵⁾ Used with Bender Sets.

▼ DIMENSION CHARTS

Model Number	Saddle Dimensions (in)			A53F A102F	Tilt Saddle Model Number	Addition to Collapsed Height A1 (in)	Tilt Saddle Diameter J1 (in)		
	A	B	C						
Flat					10	CATS12	0.55	1.38	
A53F	1.00	0.25	0.68		15	CATS12	0.43	1.38	
A102F	1.38	0.24	0.88		25	CATS52	0.59	1.97	
A12	2.00	1.88	1"-8UNC		30	CATS52	0.59	1.97	
A29	2.00	1.88	1 1/2"-16UN		50	CATS100	0.59	2.80	
Grooved					75	CATS100	0.59	2.80	
A53G	1.00	0.25	0.68		95	CATS100	0.59	2.80	
A102G	1.38	0.24	0.88						
A152G	1.50	0.37	0.88						
A252G	1.97	0.37	1.40						

Model Number	Base Plate Dimensions (in)						
	A	B	C	D	E		
JBI10	9.00	9.00	5.34	2.29	0.81		
JBI25	11.00	11.00	5.53	3.41	1.03		
JBI50	12.00	0.60	3.75	5.19	1.25		

Model Number	Mounting Block Dimensions (in)											
	A	B	C	D	E	F	G	H				
RB5	1 1/2"-16	3.50	3.00	-	1.00	-	-	-				
AW51	1 1/2"-16	2.76	2.36	0.43	0.98	2.13	1/4"-20	1.62				
AW53	1 1/2"-16	2.87	0.28	0.31	0.75	2.25	1/4"-20	0.41				
RB10	2 1/4"-14	4.50	3.50	-	1.00	-	-	-				
AW102	2 1/4"-14	3.94	3.25	0.63	1.18	3.00	7/16"-20	2.31				
RB15	2 3/4"-16	4.00	4.50	-	1.50	-	-	-				
RB25	3 5/16"-12	5.00	6.50	-	2.00	-	-	-				

Type	Model Number	Clevis Eye Dimensions (in)						Pin to Pin* (in)	
		A	B	C	D	E	F		
Base ⁴⁾	REB5	1.75	1.88	0.56	0.63	0.63	1.00	2.37	
	REB10	2.50	2.63	1.00	0.88	1.00	1.38	3.07	
	REB15	3.00	2.63	1.00	0.88	1.00	1.38	3.07	
	REB25	3.75	3.13	1.50	1.25	1.25	1.63	3.45	
Plunger	REP5	1.13	1.75	0.56	0.63	0.63	0.75	-	
	REP10	1.69	2.43	1.00	0.88	1.00	1.13	-	
	REP25	2.25	2.81	1.50	1.25	1.25	1.38	-	

⁴⁾ Mounting screws are included

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