

▼ Shown 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

## 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.

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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.



▼ RC cylinder mounting attachments greatly extend the application possibilities (available for 5, 10, 15 and 25 ton 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	Weight	
tons (maximum)	(in)		(in <sup>2</sup> )	(in <sup>3</sup> )	(in)	(lbs)	
5 (4.9)	.63	RC-50**	.99	.62	1.63	2.2	
	1.00	RC-51	.99	.99	4.34	2.3	
	3.00	RC-53	.99	2.98	6.50	3.3	
	5.00	RC-55*	.99	4.97	8.50	4.1	
	7.00	RC-57	.99	6.96	10.75	5.3	
10 (11.2)	9.13	RC-59	.99	9.07	12.75	6.1	
	1.00	RC-101	2.24	2.24	3.53	4.0	
	2.13	RC-102*	2.24	4.75	4.78	5.1	
	4.13	RC-104	2.24	9.23	6.75	7.2	
	6.13	RC-106*	2.24	13.70	9.75	9.8	
	8.00	RC-108	2.24	17.89	11.75	12.0	
	10.13	RC-1010*	2.24	22.65	13.75	14.0	
15 (15.7)	12.00	RC-1012	2.24	26.84	15.75	15.0	
	14.00	RC-1014	2.24	31.31	17.75	18.0	
	1.00	RC-151	3.14	3.14	4.88	7.2	
	2.00	RC-152	3.14	6.28	5.88	9.0	
	4.00	RC-154*	3.14	12.57	7.88	11.0	
	6.00	RC-156*	3.14	18.85	10.69	15.0	
	8.00	RC-158	3.14	25.13	12.69	18.0	
	10.00	RC-1510	3.14	31.42	14.69	21.0	
25 (25.8)	12.00	RC-1512	3.14	37.70	16.69	24.0	
	14.00	RC-1514	3.14	43.98	18.69	26.0	
	1.00	RC-251	5.16	5.16	5.50	13.0	
	2.00	RC-252*	5.16	10.31	6.50	14.0	
	4.00	RC-254*	5.16	20.63	8.50	18.0	
	6.25	RC-256*	5.16	32.23	10.75	22.0	
	8.25	RC-258	5.16	42.55	12.75	27.0	
	10.25	RC-2510	5.16	52.86	14.75	31.0	
30 (32.4)	12.25	RC-2512	5.16	63.18	16.75	36.0	
	14.25	RC-2514*	5.16	73.49	18.75	39.0	
	8.25	RC-308	6.49	53.56	15.25	40.0	
	50 (55.2)	2.00	RC-502	11.04	22.09	6.94	33.0
		4.00	RC-504	11.04	44.18	8.94	42.0
		6.25	RC-506*	11.04	69.03	11.13	51.0
		13.25	RC-5013	11.04	146.34	18.13	83.0
75 (79.5)	6.13	RC-756	15.90	97.41	11.25	65.0	
	13.13	RC-7513	15.90	208.74	19.38	130.0	
100 (103.1)	6.63	RC-1006	20.63	136.67	14.06	130.0	
	10.25	RC-10010	20.63	211.45	17.69	160.0	

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

\*\* RC-50 cylinder has non-removable grooved saddle and no collar thread.

## RC Series



Capacity:

**5-100 tons**

Stroke:

**.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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### RAC-Series, Single-Acting Cylinders

The lightweight general purpose spring return aluminum cylinders.

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### RC-Series DUO Cylinders

maintain external dimensions for use with existing fixtures.

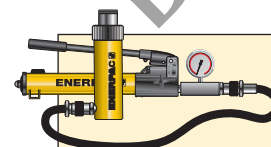


### Gauges

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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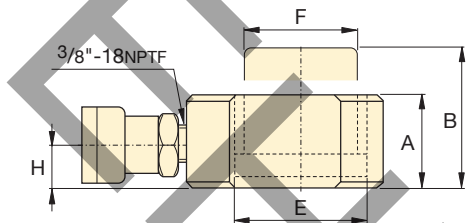
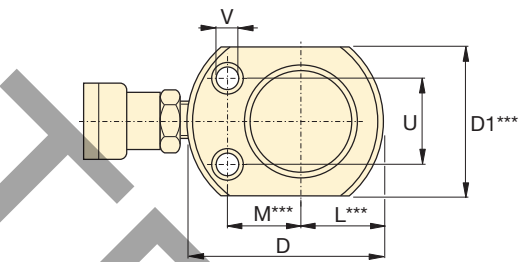
# RC-Series DUO Cylinders, Single-Acting



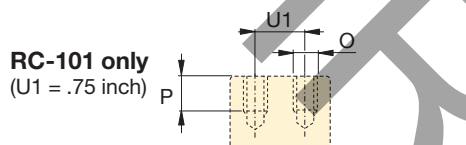
### Speed Chart

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

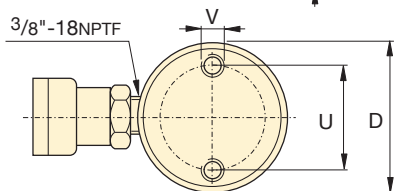
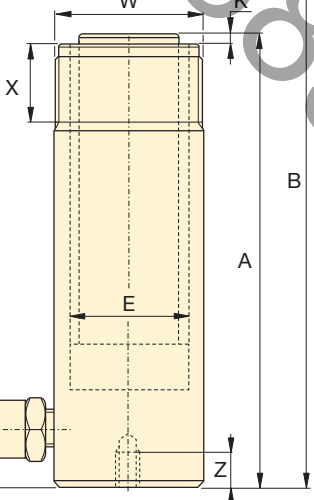
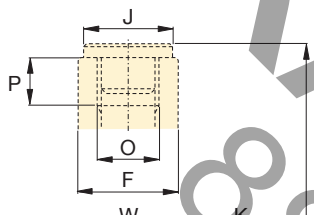
Page: 283



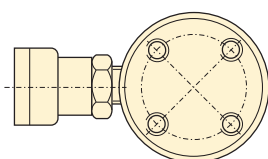
RC-50



RC-101 only  
(U1 = .75 inch)



RC-51 to RC-5013 models



RC-1006 and RC-10010 models

◀ For full features see page 6.

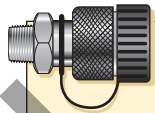
Cylinder Capacity	Stroke	Model Number	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Outside Diameter
tons (maximum)	(in)		(in <sup>2</sup> )	(in <sup>3</sup> )	A (in)	B (in)	D (in)
5 (4.9)	.63	RC-50**	.99	.62	1.63	2.25	2.31
	1.00	RC-51	.99	.99	4.34	5.34	1.50
	3.00	RC-53	.99	2.98	6.50	9.50	1.50
	5.00	RC-55*	.99	4.97	8.50	13.50	1.50
	7.00	RC-57	.99	6.96	10.75	17.75	1.50
9.13	RC-59	.99	9.07	12.75	21.88	1.50	
10 (11.2)	1.00	RC-101	2.24	2.24	3.53	4.53	2.25
	2.13	RC-102*	2.24	4.75	4.78	6.91	2.25
	4.13	RC-104	2.24	9.23	6.75	10.88	2.25
	6.13	RC-106*	2.24	13.70	9.75	15.88	2.25
	8.00	RC-108	2.24	17.89	11.75	19.75	2.25
	10.13	RC-1010*	2.24	22.65	13.75	23.88	2.25
	12.00	RC-1012	2.24	26.84	15.75	27.75	2.25
15 (15.7)	1.00	RC-151	3.14	3.14	4.88	5.88	2.75
	2.00	RC-152	3.14	6.28	5.88	7.88	2.75
	4.00	RC-154*	3.14	12.57	7.88	11.88	2.75
	6.00	RC-156*	3.14	18.85	10.69	16.69	2.75
	8.00	RC-158	3.14	25.13	12.69	20.69	2.75
	10.00	RC-1510	3.14	31.42	14.69	24.69	2.75
	12.00	RC-1512	3.14	37.70	16.69	28.69	2.75
25 (25.8)	1.00	RC-251	5.16	5.16	5.50	6.50	3.38
	2.00	RC-252*	5.16	10.31	6.50	8.50	3.38
	4.00	RC-254*	5.16	20.63	8.50	12.50	3.38
	6.25	RC-256*	5.16	32.23	10.75	17.00	3.38
	8.25	RC-258	5.16	42.55	12.75	21.00	3.38
	10.25	RC-2510	5.16	52.86	14.75	25.00	3.38
	12.25	RC-2512	5.16	63.18	16.75	29.00	3.38
30 (32.4)	14.25	RC-2514*	5.16	73.49	18.75	33.00	3.38
	8.25	RC-308	6.51	53.56	15.25	23.50	4.00
50 (55.2)	2.00	RC-502	11.04	22.09	6.94	8.94	5.00
	4.00	RC-504	11.04	44.18	8.94	12.94	5.00
	6.25	RC-506*	11.04	69.03	11.13	17.38	5.00
	13.25	RC-5013	11.04	146.34	18.13	31.38	5.00
75 (79.5)	6.13	RC-756	15.90	97.41	11.25	17.38	5.75
	13.13	RC-7513	15.90	208.74	19.38	32.50	5.75
100 (103.1)	6.63	RC-1006	20.63	136.67	14.06	20.69	7.00
	10.25	RC-10010	20.63	211.45	17.69	27.94	7.00

\* Available as a set. See page 52.

\*\* RC-50 cylinder has non-removable grooved saddle and no collar thread.

\*\*\* D1 = 1.63 inch, L = .81 inch, M = 1.00 inch.

# Single-Acting, General Purpose Cylinders



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

Capacity:  
**5-100 tons**

Stroke:  
**.63-14.25 inches**

Maximum Operating Pressure:  
**10,000 psi**

**RC Series**



Cylinder Bore Diam.	Plunger Diam.	Base to Adv. Port	Saddle Diam.	Saddle Protrusion 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)	(lbs)	
1.13	1.00	.75	**	**	**	**	1.13	.22	—	—	—	2.2	RC-50**
1.13	1.00	.75	1.00	.25	3/4"-16	.56	1.00	1/4"-20UN	.56	1 1/2"-16	1.13	2.3	RC-51
1.13	1.00	.75	1.00	.25	3/4"-16	.56	1.00	1/4"-20UN	.56	1 1/2"-16	1.13	3.3	RC-53
1.13	1.00	.75	1.00	.25	3/4"-16	.56	1.00	1/4"-20UN	.56	1 1/2"-16	1.13	4.1	RC-55*
1.13	1.00	.75	1.00	.25	3/4"-16	.63	1.00	1/4"-20UN	.56	1 1/2"-16	1.13	5.3	RC-57
1.13	1.00	.75	1.00	.25	3/4"-16	.63	1.00	1/4"-20UN	.56	1 1/2"-16	1.13	6.1	RC-59
1.69	1.50	.75	—	—	#10-24UN	.25	1.56	5/16"-18UN	.50	2 1/4"-14	1.06	4.0	RC-101
1.69	1.50	.75	1.38	.25	1"-8	.75	1.56	5/16"-18UN	.50	2 1/4"-14	1.13	5.1	RC-102*
1.69	1.50	.75	1.38	.25	1"-8	.75	1.56	5/16"-18UN	.50	2 1/4"-14	1.06	7.2	RC-104
1.69	1.50	.75	1.38	.25	1"-8	.75	1.56	5/16"-18UN	.50	2 1/4"-14	1.13	9.8	RC-106*
1.69	1.50	.75	1.38	.25	1"-8	.75	1.56	5/16"-18UN	.50	2 1/4"-14	1.06	12	RC-108
1.69	1.50	.75	1.38	.25	1"-8	.75	1.56	5/16"-18UN	.50	2 1/4"-14	1.13	14	RC-1010*
1.69	1.50	.75	1.38	.25	1"-8	.75	1.56	5/16"-18UN	.50	2 1/4"-14	1.06	15	RC-1012
1.69	1.50	.75	1.38	.25	1"-8	.75	1.56	5/16"-18UN	.50	2 1/4"-14	1.06	18	RC-1014
2.00	1.63	.75	1.50	.38	1"-8	1.00	1.88	3/8"-16UN	.50	2 3/4"-16	1.19	7.2	RC-151
2.00	1.63	.75	1.50	.38	1"-8	1.00	1.88	3/8"-16UN	.50	2 3/4"-16	1.19	9	RC-152
2.00	1.63	.75	1.50	.38	1"-8	1.00	1.88	3/8"-16UN	.50	2 3/4"-16	1.19	11	RC-154*
2.00	1.63	1.00	1.50	.38	1"-8	1.00	1.88	3/8"-16UN	.50	2 3/4"-16	1.19	15	RC-156*
2.00	1.63	1.00	1.50	.38	1"-8	1.00	1.88	3/8"-16UN	.50	2 3/4"-16	1.19	18	RC-158
2.00	1.63	1.00	1.50	.38	1"-8	1.00	1.88	3/8"-16UN	.50	2 3/4"-16	1.19	21	RC-1510
2.00	1.63	1.00	1.50	.38	1"-8	1.00	1.88	3/8"-16UN	.50	2 3/4"-16	1.19	24	RC-1512
2.00	1.63	1.00	1.50	.38	1"-8	1.00	1.88	3/8"-16UN	.50	2 3/4"-16	1.19	26	RC-1514
2.56	2.25	1.00	2.00	.41	1 1/2"-16	1.00	2.31	1/2"-13UN	.75	3-12	1.94	13	RC-251
2.56	2.25	1.00	2.00	.41	1 1/2"-16	1.00	2.31	1/2"-13UN	.75	3 5/16"-12	1.94	14	RC-252*
2.56	2.25	1.00	2.00	.41	1 1/2"-16	1.00	2.31	1/2"-13UN	.75	3 5/16"-12	1.94	18	RC-254*
2.56	2.25	1.00	2.00	.41	1 1/2"-16	1.00	2.31	1/2"-13UN	.75	3 5/16"-12	1.94	22	RC-256*
2.56	2.25	1.00	2.00	.41	1 1/2"-16	1.00	2.31	1/2"-13UN	.75	3 5/16"-12	1.94	27	RC-258
2.56	2.25	1.00	2.00	.41	1 1/2"-16	1.00	2.31	1/2"-13UN	.75	3 5/16"-12	1.94	31	RC-2510
2.56	2.25	1.00	2.00	.41	1 1/2"-16	1.00	2.31	1/2"-13UN	.75	3 5/16"-12	1.94	36	RC-2512
2.56	2.25	1.00	2.00	.41	1 1/2"-16	1.00	2.31	1/2"-13UN	.75	3 5/16"-12	1.94	39	RC-2514*
2.88	2.25	2.25	2.00	.41	1 1/2"-16	1.00	—	—	—	3 5/16"-12	1.94	40	RC-308
3.75	3.13	1.31	2.81	.11	—	—	3.75	1/2"-13UN	.75	5"-12	2.19	33	RC-502
3.75	3.13	1.31	2.81	.11	—	—	3.75	1/2"-13UN	.75	5"-12	2.19	42	RC-504
3.75	3.13	1.38	2.81	.11	—	—	3.75	1/2"-13UN	.75	5"-12	2.19	51	RC-506*
3.75	3.13	1.38	2.81	.11	—	—	3.75	1/2"-13UN	.75	5"-12	2.19	83	RC-5013
4.50	3.75	1.19	2.81	.23	—	—	—	—	—	5 3/4"-12	1.75	65	RC-756
4.50	3.75	1.19	2.81	.23	—	—	—	—	—	5 3/4"-12	1.75	130	RC-7513
5.13	4.13	1.63	2.81	.11	—	—	5.50	3/4"-10UN	1.00	6 7/8"-12	1.75	130	RC-1006
5.13	4.13	1.63	2.81	.11	—	—	5.50	3/4"-10UN	1.00	6 7/8"-12	1.75	160	RC-10010

## ▼ SELECTION CHART

For Use with Cylinder Capacity (tons)	Saddles			Base Plate	Mounting Block	Clevis Eyes	
	Flat	Grooved <sup>1)</sup>	Tilt			Base <sup>4)</sup>	Plunger
5	A-53F <sup>2)</sup>	A-53G <sup>2)</sup>	-	-	RB-5 <sup>2)</sup> , AW-51 <sup>2)</sup> , AW-53 <sup>2)</sup>	REB-5 <sup>2)</sup>	REP-5 <sup>2)</sup>
10	A-12 <sup>3)</sup> , A-102F <sup>3)</sup>	A-102G <sup>3)</sup>	CAT-10 <sup>3)</sup>	JB-10	RB-10, AW-102	REB-10	REP-10 <sup>3)</sup>
15	-	A-152G	CAT-10	-	RB-15	REB-15	REP-10
25	A-29	A-252G	CAT-50	JB-25	RB-25	REB-25	REP-25
30	A-29	A-252G	CAT-50	-	RB-25	-	REP-25
50	-	-	CAT-100	JB-50	-	-	-
75	-	-	CAT-100	-	-	-	-
100	-	-	CAT-100	-	-	-	-

<sup>1)</sup> Standard on 5-30 ton RC-cylinders <sup>2)</sup> Except RC-50 <sup>3)</sup> Except RC-101 <sup>4)</sup> Mounting screws are included.

## ▼ DIMENSION CHARTS

Model Number	Saddle Dimensions (in)				Model Number	Tilt Saddle Dimensions (in)			
	A	B	C			A	B	C	
<b>Flat</b>					<b>Tilt</b>				
A-53F	1.00	.25	.68		CAT-10	1.38	.79	.88	
A-102F	1.38	.24	.88		CAT-50	1.97	.83	1.40	
A-12	2.00	1.88	1" - 8UNC						
A-29	2.00	1.88	1 1/2" - 16UN						
<b>Grooved</b>					<b>Tilt</b>				
A-53G	1.00	.25	.68		CAT-100	2.80	.98	-	
A-102G	1.38	.24	.88						
A-152G	1.50	.37	.88						
A-252G	1.97	.37	1.40						

Model Number	Base Plate Dimensions (in)						
	A	B	C	D	E		
JB-10	9.00	9.00	5.34	2.29	.81		
JB-25	11.00	11.00	5.53	3.41	1.03		
JB-50	12.00	.60	3.75	5.19	1.25		

Model Number	Mounting Block Dimensions (in)											
	A	B	C	D	E	F	G	H				
RB-5	1 1/2" - 16	3.50	3.00	-	1.00	-	-	-				
AW-51	1 1/2" - 16	2.76	2.36	.43	.98	2.13	1/4" - 20	1.62				
AW-53	1 1/2" - 16	2.87	.28	.31	.75	2.25	1/4" - 20	.41				
RB-10	2 1/4" - 14	4.50	3.50	-	1.00	-	-	-				
AW-102	2 1/4" - 14	3.94	3.25	.63	1.18	3.00	7/16" - 20	2.31				
RB-15	2 3/4" - 16	4.00	4.50	-	1.50	-	-	-				
RB-25	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 <sup>4)</sup>	REB-5	1.75	1.88	.56	.63	.63	1.00	2.37		
	REB-10	2.50	2.63	1.00	.88	1.00	1.38	3.07		
	REB-15	3.00	2.63	1.00	.88	1.00	1.38	3.07		
	REB-25	3.75	3.13	1.50	1.25	1.25	1.63	3.45		
Plunger	REP-5	1.13	1.75	.56	.63	.63	.75	-		
	REP-10	1.69	2.43	1.00	.88	1.00	1.13	-		
	REP-25	2.25	2.81	1.50	1.25	1.25	1.38	-		

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

<sup>4)</sup> Mounting screws are included.

▼ Shown from left to right: P-142ALSS, P-392ALSS, V-152NV, V-66NV, RC256NV, RC-106NV, RC-53NV



## RC, P, V Series

Cylinder Capacity:  
**5-25 tons**

Stroke:  
**2-6 inches**

Maximum Operating Pressure:  
**10,000 psi**



### Applications

Use Enerpac **Extreme Environment Products** 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.

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### ▼ CYLINDER CHART



Cylinder Capacity	Stroke	Model Number *	Oil Capacity	Pressure Rating	Collapsed Height	Extended Height	Outside Diameter	Weight
(ton)	(in)		(in <sup>3</sup> )	(psi)	(in)	(in)	(in)	(lbs)
5	3.0	RC-53NV	2.98	10,000	6.50	9.50	1.50	3.3
10	2.0	RC-102NV	4.75	10,000	4.78	6.91	2.25	5.1
10	6.0	RC-106NV	13.70	10,000	9.75	15.88	2.25	9.8
25	6.0	RC-256NV	32.23	10,000	10.75	17.00	3.38	22.0

### ▼ HAND PUMP CHART



Pump Type	Oil Capacity	Model Number *	Pressure Rating	Oil Displacement per Stroke	Port Dimension	Piston Stroke	Weight
	(in <sup>3</sup> )		(psi)	(in <sup>3</sup> )	(in)	(in)	(lbs)
Two Speed	20	P-142ALSS	200/10,000	0.221 / 0.055	1/4"-18 NPTF	.50	4.5
	55	P-392ALSS	200/10,000	0.687 / 0.151	3/8"-18 NPTF	1.00	9.0

### ▼ VALVE CHART



Valve Type	Model Number *	Pressure Function	Pressure Rating (psi)	Weight (lbs)
Manual Check Valve	V-66NV	Check	10,000	4.5
Pressure Relief Valve	V-152NV	+ 3% Repeatability	800-10,000	9.0

\* For cylinder details see pages 7-9; for pump details see pages 70-71; for valve details see pages 146-147.