	Stroke (in.)	Retracted Height (in.)	Order No.	Page No.
2 ton pull	5	9 3/16	RP25	23
5 ton pull	5 1/2	11 7/8	RP55	23
5 Ton	9/16	1 5/8	RLS50	18
	1	4 3/8	C51C	15
	3 1/4	6 1/2	C53C	15
	5 1/4	8 1/2	C55C	15
	5 1/4	10 1/2	C55CBT	16
	7 1/4	10 3/4	C57C	15
	9 1/4	12 3/4	C59C	15
10 Ton	7/16	1 3/4	RLS100	18
	1	3 5/8	C101C	15
	1 1/2	3 1/2	RSS101	19
	2 1/8	4 3/4	C102C	15
	2 1/2	5 1/4	RH102	18
	4 1/8	6 3/4	C104C	15
	6 1/8	9 3/4	C106C	15
	6 1/8	11 1/2	C106CBT	16
	6 1/4	11 11/16	RD106	23
	8	11 5/16	RH108	20
	8 1/8	11 3/4	C108C	15
	10	15 11/16	RD1010	25
	10 1/8	13 3/4	C1010C	15
	10 1/8	15 1/2	C1010CBT	16
	12 1/8	15 3/4	C1012C	15
	14 1/8	17 3/4	C1014C	15
12 Ton	5/16	2 3/16	RH120	20
	1 5/8	4 13/16	RH121	20
	1 5/8	4 13/16	RH121T	20
	3	7 1/4	RH123	20
15 Ton	1	4 7/8	C151C	15
	2 1/8	5 7/8	C152C	15
	4 1/8	7 7/8	C154C	15
	6 1/8	10 11/16	C156C	15
	8 1/8	12 11/16	C158C	15
	10 1/8	14 11/16	C1510C	15
	12 1/8	16 11/16	C1512C	15
	14 1/8	18 11/16	C1514C	15
	16	20 9/16	C1516C	15
17.5 Ton	2	6 7/8	RT172	22
20 Ton	7/16	2	RLS200	18
	1 3/4	3 3/4	RSS202	19
	2	6 1/8	RH202	20
	2 1/8	6 3/8	RA202	17
	3	6 1/16	RH203	20
	4 1/8	8 3/8	RA204	17
	6	12 1/8	RH206	20
	6 1/8	10 3/8	RA206	17
25 Ton	1	5 1/2	C251C	15
	2	6 1/2	C252C	15
	4	8 1/2	C254C	15
	6 1/4	10 3/4	C256C	15
	6 1/4	13 3/8	C256CBT	16
	6 1/4	12 3/8	RD256	25
	8 1/4	12 3/4	C258C	15
25 Ton	10 1/4	14 3/4	C2510C	15
	12 1/4	16 3/4	C2512C	15
	14 1/8	18 3/4	C2514C	15
	14 1/8	21 3/8	C2514CBT	16
	14 1/8	20 3/8	RD2514	25
30 Ton	1/2	2 5/16	RLS300	18
	2 1/8	7 3/8	RA302	17
	2 7/16	4 5/8	RSS302	19
	2 1/2	6 1/4	RH302	20
	2 1/2	8 7/16	RT302	22
	3	7 1/16	RH303	21
	4 1/8	9 3/8	RA304	17
	5 7/8	11 1/8	RHA306	20
	6	9 3/4	RH306	20
	6	11 1/16	RH306D	21
	6 1/8	11 3/8	RA306	17
	10 1/8	17 1/4	RH3010	21
50 Ton	1/16	2 5/8	RLS500S	18
	2 3/8	5	RSS502	19
	3	7 1/8	RH503	20
	3	10 9/16	RT503	22
55 Ton	2	4 15/16	R552C	26
	2	6 3/8	R552L	32
	2	6 7/8	C552C	15
	2 1/8	6 3/4	RA552	17
	4 1/8	8 3/4	RA554	17
	4 1/4	9 1/8	C554C	15
	6	8 15/16	R556C	26
	6	10 3/8	R556L	32
	6 1/8	10 3/4	RA556	17
	6 1/8	12 1/2	RA556L	30
	6 1/4	11 1/8	C556C	15
	6 1/4	12 31/32	RD556	25
	10	12 15/16	R5510C	26
	10	14 3/8	R5510L	32
	10	15 1/8	RA5510	17
	10 1/4	15 1/8	C5510C	15
	13 1/8	19 27/32	RD5513	25
	13 1/4	18 1/8	C5513C	15
	18 1/8	25 7/8	RD5518	25
60 Ton	3	9 1/4	RH603	20
	4	9 1/2	RHA604D	21
	5	9 1/2	RH605	21
	6	12 1/2	RH606	20
	10 1/8	18 1/16	RH6010	21
75 Ton	5/8	3 1/8	RLS750S	18
	6 1/8	12 3/8	C756C	15
	13 1/8	19 3/8	C7513C	15
80 Ton	13 1/8	20 3/8	RD8013	25
100 Ton	5/8	3 3/8	RLS1000S	18
	1 1/2	5 11/16	RSS1002D	19
	1 1/2	6 1/2	RH1001	21
	2	5 1/2	R1002C	26
	2	6 41/64	R1002D	28
	2	7 1/4	R1002L	32
	2	8 5/8	C1002C	15
	2 1/8	7 3/4	RA1002	17
100 Ton	2 1/4	5 1/2	RSS1002	19
	3	10	RH1003	20
	4 7/8	15 1/8	RT1004	22
	6	9 1/2	R1006C	26
	6	10 41/64	R1006D	28
	6	11 1/4	R1006L	32
	6	12 3/8	RH1006	21
	6 1/4	11 3/4	RA1006	17
	6 1/4	13 3/8	RA1006L	30
	6 5/8	13 1/4	C1006C	15
	6 5/8	13 25/32	RD1006	25
	10	13 1/2	R10010C	*
	10	14 41/64	R10010D	28
	10	15 1/4	R10010L	32
	10 1/8	19 13/16	RH10010	21
	10 1/4	16 7/8	C10010C	15
	13 1/8	20 9/32	RD10013	25
	20 1/8	28 9/32	RD10020	25
150 Ton	9/16	4	RLS1500S	18
	2	6 3/8	R1502C	26
	2	7 7/16	R1502D	28
	2	8 1/8	R1502L	32
	5	12 1/8	RH1505	21
	6	10 3/8	R1506C	26
	6	11 7/16	R1506D	28
	6	12 1/8	R1506L	32
	6 5/8	14 7/8	RD1506	25
	8	13 3/4	RH1508	21
	10	14 3/8	R15010C	26
	10	15 7/16	R15010D	*
	10	16 1/8	R15010L	*
	13 1/8	21 3/8	RD15013	25
	18 1/8	26 17/32	RD15018	25
200 Ton	2	7 1/2	R2002C	26
	2	8 9/64	R2002D	28
	2	9 1/2	R2002L	32
	6	11 1/2	R2006C	26
	6	12 9/64	R2006D	28
	6	13 1/2	R2006L	32
	6 5/8	16	RD2006	25
	8	16 1/16	RH2008	21
	10	15 1/2	R20010C	*
	10	16 9/64	R20010D	28
	10	17 1/2	R20010L	*
	13 1/8	22 1/2	RD20013	25
	18 1/8	28 1/2	RD20018	25
250 Ton	3	11 7/16	RSS2503	19
280 Ton	2	7 1/2	R2802C	26
	2	9 13/64	R2802D	28
	2	9 3/4	R2802L	32
	6	11 1/2	R2806C	26
	6	13 13/64	R2806D	28
	6	13 3/4	R2806L	32
	10	15 1/2	R28010C	*
	10	17 13/64	R28010D	28
	10	17 3/4	R28010L	32
300 Ton	6	17 9/32	RD3006	25
	13	24 9/32	RD30013	25
355 Ton	2	9 1/8	R3552C	26
	2	11 1/2	R3552L	28
	2	15 3/8	R3552D	26
	6	12 5/8	R3556C	28
	6	15 1/2	R3556L	32
	6	17 21/32	R3556D	28
	10	17 1/8	R35510C	26
	10	19 1/2	R35510L	*
	10	21 21/32	R35510D	26
400 Ton	6	18 5/8	RD4006	25
	13	25 5/8	RD40013	25
430	2	10 3/8	R4302C	26
	2	12 5/16	R4302D	28
	6	14 3/8	R4306C	26
	6	16 5/16	R4306D	28
	10	20 5/16	R43010C	28
	10	20 53/64	R43010D	28
500 Ton	6	19 21/32	RD5006	25
	13	26 21/32	RD50013	25
565 Ton	2	11 1/2	R5652C	26
	2	14 5/8	R5652L	32
	2	16 19/32	R5652D	28
	6	15 1/2	R5656C	26
	6	18 5/8	R5656L	32
	6	20 19/32	R5656D	28
	10	19 1/2	R56510C	26
	10	22 5/8	R56510L	26
	10	24 19/32	R56510D	28
740-1220 Ton	2, 6, 10			27
	2, 6, 10			29
	2, 6, 10			32

*For these and special cylinder requirements, contact your local sales office.

CYLINDER SELECTION

Choose The Right Cylinder

Step 1 Select the hydraulic cylinder that best suits the application. See page 7, 12-13.

Step 2 Select the hydraulic pump, with valve option, that best matches the cylinder and application. See pages 6, 42-49, 120-121.

Step 3 Select the hydraulic accessories you need. See pages 34-39.

WHAT TYPE OF CYLINDER DO YOU NEED?

1. To determine a cylinder's force capacity:

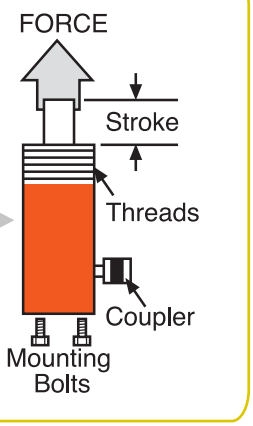
Force pounds = Cylinder Effective Area (sq. in.) X PSI from Pump

2. To determine oil capacity of a cylinder:

Oil Capacity (cu. in.) = Cylinder Effective Area (sq. in.) X Cylinder Stroke (in.)

3. To determine reservoir capacity needed for a multiple cylinder system:

Usable Oil = Oil Cap. of Cyl. (cu. in.) X Number of Cyl. in System



CONSIDERATIONS:

1. What push or pull tonnage is required per cylinder in your application? (Rule of thumb; Always choose a cylinder with a tonnage rating of 20% or more than what is required to lift the load.)
2. What is the push or pull stroke length required?
3. Does the cylinder need to push, pull or both? (Single-acting cylinders extend the piston under hydraulic pressure; double-acting cylinders extend and retract the piston under pressure.)
4. Does the application require multiple cylinders?
5. Is the application stationary, or must the components be light in weight for easy portability?
6. Do you need to extend a rod or cable through the center of the cylinder for the application, as in a tensioning operation?
7. Does the application require that the cylinder fit within limited-clearance work areas?
8. Does the application require that the cylinder be "dead-ended" at the end of it's work stroke?
9. Will the cylinder need to withstand off-center loads? Cylinders with swivel caps are available.
10. Does the application require that the lifted load be supported for extended periods of time? Locking-collars are ideal for such jobs, as are cribbing blocks.
11. Is corrosion resistance required? Our unique "Power Tech" surface treatment is standard on many Power Team cylinders, and optional on many of our cylinders which feature steel construction.
12. Will the application involve high cycles (over 2,500 in the cylinders lifetime)? Our "RD", "RH", "RP" and "C" series cylinders are ideal choices. Please refer to pages 12-13 for the capabilities of each cylinder.

ONLY POWER TEAM PROVIDES THE ***POWER TECH*** SURFACE TREATMENT:

- High corrosion and wear resistance, anti-galling properties.
- Significantly increases the life expectancy of a cylinder.
- Retains lubricants, prevents bronze and other materials from sticking to surface.
- Increases fatigue strength and impact strength.
- Increases surface yield and tensile strength.
- Provides improved abrasion and scratch resistance.
- Causes no appreciable dimensional change.
- 56 Rc minimum surface hardness.
- Passes ASTM B117-85 100 hour salt spray corrosion resistance tests.

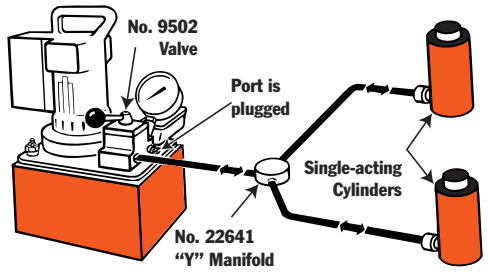
The **"Power Tech"** surface treatment is standard on the gland nut, cylinder body and piston/piston rod of the following cylinders: RLS50, RLS100, RLS200, RLS300, RLS500S, RLS750S, RLS1000S, RLS1500S, and RSS1002. NOTE: Bronze plating may be used in place of the "Power Tech" surface finish for the piston/piston rod of any of the above cylinders.The **"Power Tech"** surface treatment is standard on the standpipe of all "RH" series single and double- acting cylinders. The **"Power Tech"** surface treatment is standard on the piston/piston rod of the RT172, RT302 and RT503 cylinders.

HYDRAULIC CIRCUITS

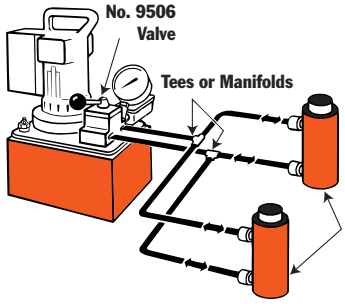
Pumps, Cylinders, Controls

Countless applications are possible with Power Team hydraulic components. In presses, for lifting or jacking applications or in production or maintenance setups. The pump shown is a typical electric/hydraulic unit. Electric, air or gas driven pumps are available.

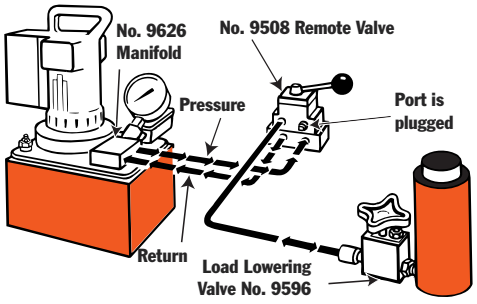
1 Single-acting cylinder or cylinders in the circuit, controlled by a pump mounted valve.



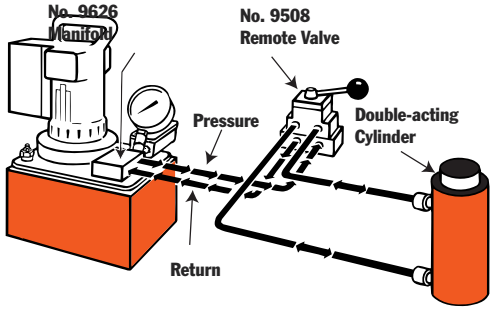
2 Double-acting cylinder or cylinders in the circuit, controlled by a pump mounted valve.



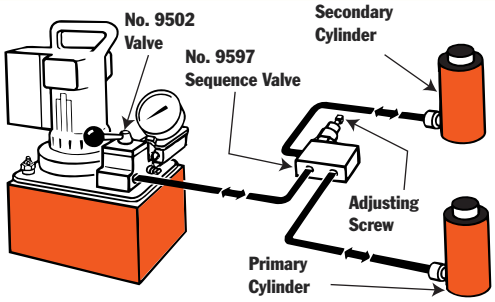
3 Single-acting cylinder controlled by a remote mounted valve.



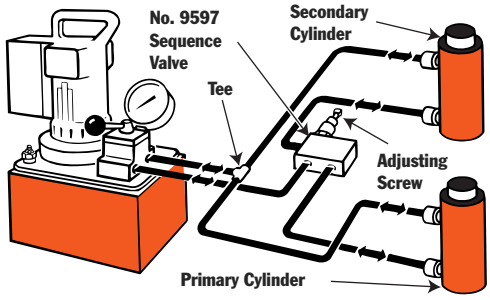
4 Double-acting cylinders controlled by a remote mounted valve.



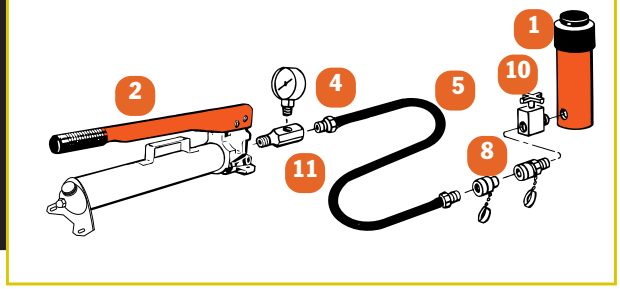
5 Single-acting cylinders with a sequence valve which controls the primary and secondary cylinder circuits.



6 Double-acting cylinder with a sequence valve which controls the primary and secondary cylinder circuits.

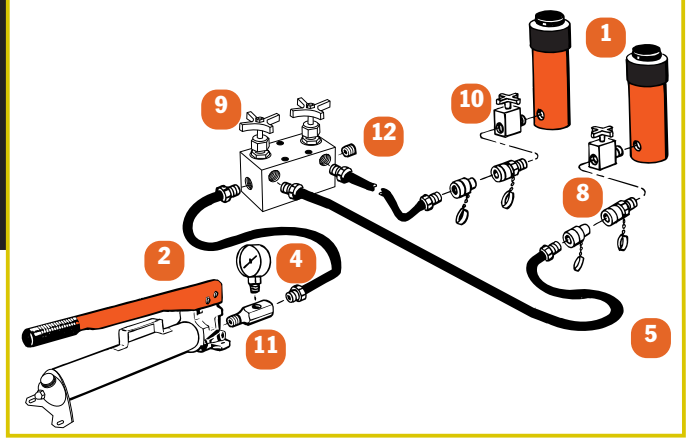


Basic single-acting system with a hand pump, gauge, hose and single-acting cylinder.

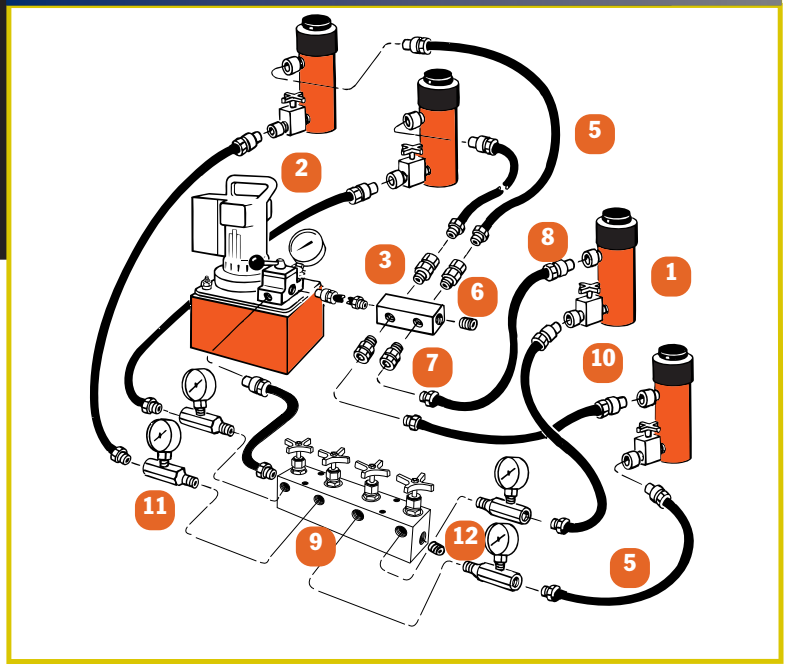


1. Cylinder – applies hydraulic force.
2. Pump – a device for converting mechanical energy to fluid energy.
3. Directional valve – controls the direction of hydraulic fluid in the system.
4. Gauge – measures P.S.I. pressure (Pounds per Square Inch) and/or force.
5. Hose – transports hydraulic fluid.
6. Manifold – allows distribution of hydraulic fluid from one source to several cylinders. (No. 9617)
7. Swivel Connector – allows proper alignment of valves and/or gauges. Used when units being connected cannot be rotated. (No. 10469)
8. Quick Coupling – “hose half” and “cylinder half” couplings are used for quick connection and fluid flow check when separated. (No. 9797 and 9798)
9. Shut-Off Valve – regulates the flow of hydraulic fluid to or from cylinders. (No. 9642 or 9644)
10. Load-Lowering Valve – allows metered lowering of cylinder and provides safety when prolonged load holding is required. (No. 9596)
11. Tee Gauge Adapter – allows for installation of pressure/tonnage gauge anywhere in the hydraulic system. (No. 9670)
12. Pipe Plug – for blocking unused ports within the system. (No. 10909)

Basic single-acting system with a hand pump, gauge, hose, multiple shut-off valves, load-lowering valves and multiple cylinders.



Basic double-acting system with an electric/hydraulic pump,shut-off valves, load-lowering valves and multiple double-acting cylinders.



FROM 2 TO 1220 TONS!

CYLINDERS

SUPERIOR FEATURES OF POWER TEAM HYDRAULIC CYLINDERS:

We build our own cylinders in our ISO 9001 registered manufacturing facility. All Power Team cylinders are date-coded. Maximum pressure rating and capacity are stamped on the cylinder. All cylinders comply to the demanding ASME B30.1 standard and are proof tested to 125% of capacity before leaving our factory. Cylinder bores are roller burnished to harden the surface and make it smoother, increasing seal life by 30%. Base mounting holes withstand full capacity of the cylinder. Typical cylinder burst pressures range from 25,000 to 35,000 psi. Cylinders are assembled and tested by certified assemblers. Eddy current and mag particle inspection detects flaws in the steel. Cylinder bodies are solid steel, not welded like some competitive cylinders. Material is removed from surface to assure that any flaws are removed.

Series	Description	Page	Action	TONNAGE 2	5	10	12	15	17.5	20	25	30	50
C	General Purpose	14	Single/Spring		X	X		X			X		
CBT	Threaded End Cylinders	16	Single/Spring		X	X					X		
RA	Aluminum Cylinders	17	Single/Spring							X		X	
RD	Industrial Cylinders	18	Double Acting		4	9	16				X		
RLS	Low Profile Cylinders	18	Single/Spring		X	X				X		X	X
RSS	Shorty Cylinders	19	Single/Spring/Double Act			X				X		X	X
RH	Center Hole Cylinders	20	Single/Spring/Double Act			X	X			X		X	X
RT	Center Hole Power Twin Cylinders	22	Single/Spring/Double Act						X			X	X
RP	Pull Cylinders	23	Single/Spring	X	X								
RD	Double Acting Cylinders	24	Double Acting			X					X		
R	High Tonnage Cylinder	26, 28	Single Acting/Load Return/ Double Acting										
RL	Locking Collar Cylinders	30, 32-33	Single Acting/Load Return										
RC	Pancake Cylinders	31	Single Acting/Load Return										

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C SERIES...14
General Purpose Cylinders

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CBT SERIES... 16
Threaded End Cylinders

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RA SERIES...17
Aluminum Cylinders

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RLS SERIES...18
Low Profile Cylinders

Page
RSS SERIES...19
Shorty Cylinders

Page
RH SERIES...20
Center Hole Cylinders

Page
RT SERIES...22
Center Hole Power-twin® Cylinders

Page
RP SERIES...23
Pull Cylinders

Page
RD SERIES...24
Double-Acting, Hydraulic-Return

Page
R SERIES...26, 28
Single Acting, Load Return
Double-Acting, Hydraulic Return

Page
RL ALUMINUM ...30
Locking Collar Aluminum

Page
RC SERIES...31
Pancake cylinders

Page
RL STEEL...32
Locking Collar Steel

Page
ACCESSORIES ...34-39

	TONNAGE																
	55	60	75	80	100	150	200	250	280	300	355	400	430	500	565	740 TO 1220
C	X		X		X											
CBT																
RA	X				X											
RLS			X		X	X										
RSS					X			X								
RH		X			X	X	X									
RT					X											
RP																
RD	X			X	X	X	X			X		X		X		
R	X				X	X	X		X		X		X		X	X
RL	X†				X†	X	X		X		X		X		X	X
RC	X				X	X		240			X				620	

† LOCKING COLLAR AVAILABLE IN ALUMINUM.

GENERAL PURPOSE
C SERIES

5-100 TONS

General Purpose, Single Acting, Spring-Return

RUGGED, HIGH QUALITY CYLINDER USED FOR LIFTING AND PRESSING

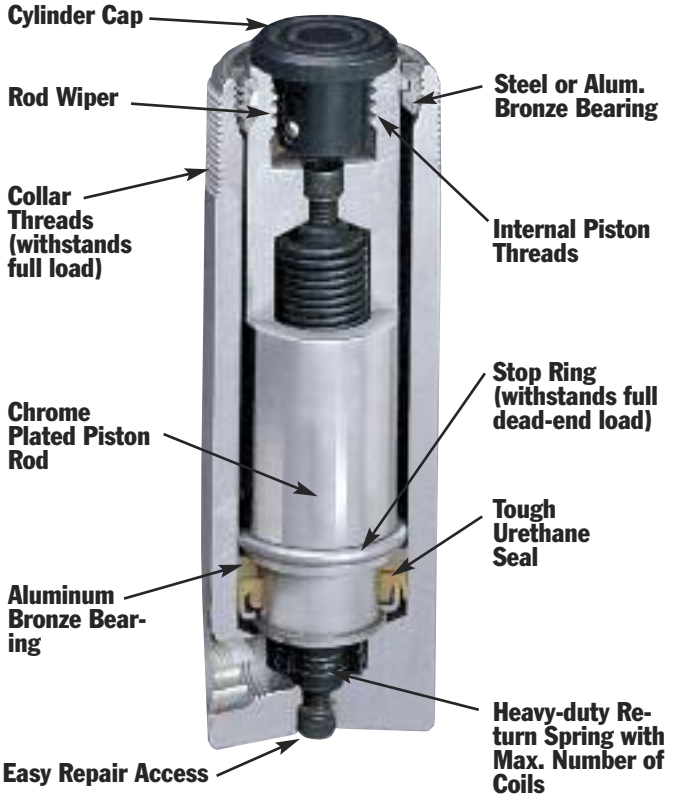
- Aluminum bronze bearing reduces wear caused by off-center loads.
- Maximum sized springs speed piston return and increase spring life.
- Solid steel cylinder body for durability.
- Chrome plated piston rod resists wear and corrosion.
- Wide range of accessories available to thread onto piston rod, collar, or onto cylinder base.
- Base mounting holes standard on 5 through 55 ton cylinders; optional on 75 and 100 ton cylinders.
- A 3/8" NPTF female half coupler is standard.

C106C

BASE MOUNTING HOLES

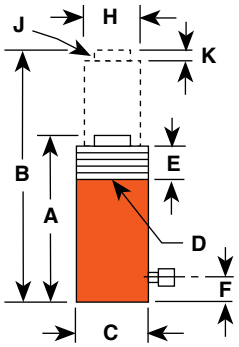
Cylinder Tonnage	No. Holes	Thread Size	Thread Depth	Bolt Circle Diameter (In.)
5	2†	1/4–20	0.38	1.00
10		5/16–18	0.50	1.56
15		3/8–16		1.88
25		1/2–13	0.75	2.31
55				3.75
*Optional 75	4	3/4–10	1.00	4.50
*Optional 100		1–8		4.75

* Consult Factory (45° from coupler) † 90° from coupler.



Conforms to ASME B30.1

C756C



Cyl Cap Tons	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	D Collar Thread (in.)	E Piston Collar Thread Length (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	J Piston Rod Int. Thread and Depth (in.)	K Rod Protrusion (in.)	Bore Dia. (in.)	Cylinder Effective Area (sq. in.)	Internal Press. at Cap. (psi)	Tons at 10,000 (psi)	Prod. Wt. (lbs.)
5	1	C51C	1.1	4 11/32	5 7/16	1 1/2	1 1/2-16	1 1/8	3/4	1	3/4-16 x 5/8	1/4	1 1/8	.994	10,061	4.97	2.25
	3 1/4	C53C	3.2	6 1/2	9 3/4	1 1/2	1 1/2-16	1 1/8	3/4	1	3/4-16 x 5/8	1/4	1 1/8	.994	10,061	4.97	3.26
	5 1/4	C55C	5.2	8 1/2	13 3/4	1 1/2	1 1/2-16	1 1/8	3/4	1	3/4-16 x 5/8	1/4	1 1/8	.994	10,061	4.97	4
	7 1/4	C57C	7.2	10 3/4	18	1 1/2	1 1/2-16	1 1/8	3/4	1	3/4-16 x 5/8	1/4	1 1/8	.994	10,061	4.97	5
	9 1/4	C59C	9.2	12 3/4	22	1 1/2	1 1/2-16	1 1/8	3/4	1	3/4-16 x 5/8	1/4	1 1/8	.994	10,061	4.97	5.8
10	1	C101C	2.2	3 5/8	4 5/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	4
	2 1/8	C102C	4.8	4 3/4	6 7/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	5
	4 1/8	C104C	9.2	6 3/4	10 7/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	6.7
	6 1/8	C106C	13.7	9 3/4	15 7/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	9.4
	8 1/8	C108C	19.9	11 3/4	19 7/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	11
	10 1/8	C1010C	22.6	13 3/4	23 7/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	13
	12 1/8	C1012C	27.1	15 3/4	27 7/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	14.6
	14 1/8	C1014C	31.6	17 3/4	31 7/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	16.2
	16	C1016C	36.1	20 1/2	36 1/2	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	18.5
15	1	C151C	3.1	4 7/8	5 7/8	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	7.5
	2 1/8	C152C	6.7	5 7/8	8	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	8.9
	4 1/8	C154C	12.9	7 7/8	12	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	11.5
	6 1/8	C156C	19.2	10 11/16	16 13/16	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	15.3
	8 1/8	C158C	25.5	12 11/16	20 13/16	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	17.9
	10 1/8	C1510C	31.8	14 11/16	24 13/16	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	20.7
	12 1/8	C1512C	38.1	16 11/16	28 13/16	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	23.2
	14 1/8	C1514C	44.4	18 11/16	32 13/16	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	26
	16	C1516C	50.3	20 9/16	36 9/16	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	28.2
25	1	C251C	5.1	5 1/2	6 1/2	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 3/16	5.15	9,699	25.8	11.9
	2	C252C	10.3	6 1/2	8 1/2	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 3/16	5.15	9,699	25.8	13.9
	4	C254C	20.6	8 1/2	12 1/ 2	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 3/16	5.15	9,699	25.8	17.6
	6 1/4	C256C	32.2	10 3/4	17	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 3/16	5.15	9,699	25.8	21.7
	8 1/4	C258C	42.5	12 3/4	21	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 3/16	5.15	9,699	25.8	25.6
	10 1/4	C2510C	52.8	14 3/4	25	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 3/16	5.15	9,699	25.8	29.3
	12 1/4	C2512C	63.2	16 3/4	29	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 3/16	5.15	9,699	25.8	33.1
	14 1/4	C2514C	73.5	18 3/4	33	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 3/16	5.15	9,699	25.8	36.8
55	2	C552C	22.1	6 7/8	8 7/8	5	5-12	2 3/16	1 3/8	3 1/8	None	1/8	3 3/4	11.04	9,959	55.2	32.5
	4 1/4	C554C	46.9	9 1/8	13 3/8	5	5-12	2 3/16	1 3/8	3 1/8	None	1/8	3 3/4	11.04	9,959	55.2	41.3
	6 1/4	C556C	69.0	11 1/8	17 3/8	5	5-12	2 3/16	1 3/8	3 1/8	None	1/8	3 3/4	11.04	9,959	55.2	51
	10 1/4	C5510C	113.2	15 1/8	25 3/8	5	5-12	2 3/16	1 3/8	3 1/8	None	1/8	3 3/4	11.04	9,959	55.2	67
	13 1/4	C5513C	146.3	18 1/8	31 3/8	5	5-12	2 3/16	1 3/8	3 1/8	None	1/8	3 3/4	11.04	9,959	55.2	78
75	6 1/8	C756C	97.4	12 3/8	18 1/2	5 3/4	5 3/4-12	1 3/4	1 1/4	3 3/4	None	1/8	4 1/2	15.90	9,434	79.5	73.5
	13 1/8	C7513C	208.7	19 3/8	32 1/2	5 3/4	5 3/4-12	1 3/4	1 1/4	3 3/4	None	1/8	4 1/2	15.90	9,434	79.5	109.5
100	2	C1002C	41.2	8 5/8	10 5/8	6 1/4	6 1/4-12	2 1/4	1 5/8	4 1/8	None	1/8	5 1/8	20.62	9,695	103.1	63
	6 5/8	C1006C	137.0	13 1/4	19 7/8	6 1/4	6 1/4-12	2 1/4	1 5/8	4 1/8	None	1/8	5 1/8	20.62	9,695	103.1	91
	10 1/4	C10010C	211.5	16 7/8	27 1/8	6 1/4	6 1/4-12	2 1/4	1 5/8	4 1/8	None	1/8	5 1/8	20.62	9,695	103.1	113

THREADED END

CBT Series

5-25 TONS Single Acting, Spring-Return

CYLINDERS

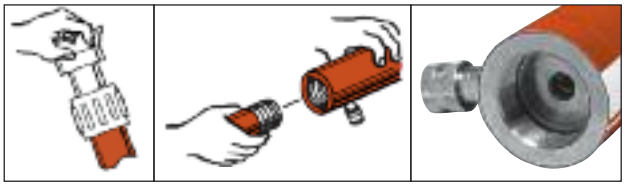
THREADED PISTON ROD END AND BASE THREADS ACCOMMODATE ACCESSORIES AND ADAPTERS.

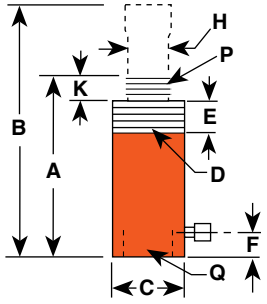
- Threaded cylinder collars, piston rod ends, and internal base threads simplify mounting.
- A 9796 3/8" NPTF female half coupler is standard with each cylinder; oil port threads are 3/8" NPTF.

ASME B30.1
10,000 PSI

C55CBT

C2514CBT





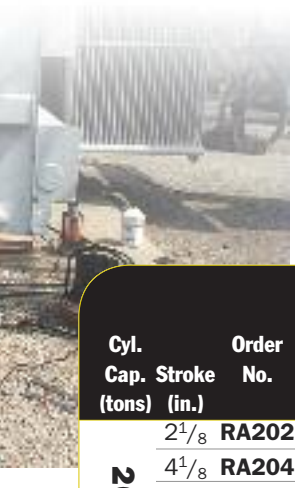
Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	D Collar Thread (in.)	E Collar Thread Length (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	K Piston Rod Protrusion (in.)	P Piston Rod Thread* (NPT)	Q Internal Base Thread (NPSM) (in.)	Bore Dia. (in.)	Cyl. Eff. Area (sq. in.)	Internal Press. at Cap. (psi)	Tons at 10,000 (psi)	Prod. Wt. (lbs.)
5	5 1/4	**C55CBT**	5.2	10 1/2	15 3/4	1 1/2	1 1/2–16	1 1/8	1 7/8	1	1 1/8	3/4–14	3/4–14	1 1/8	.994	10,061	4.97	4.4
10	6 1/8	**C106CBT**	13.9	11 1/2	17 5/8	2 1/4	2 1/4–14	1 1/8	1 11/16	1 1/2	1 1/16	1 1/4–11 1/2	1 1/4–11 1/2	1 11/16	2.236	8,948	11.2	10.3
	10 1/8	**C1010CBT**	22.9	15 1/2	25 5/8	2 1/4	2 1/4–14	1 1/8	1 11/16	1 1/2	1 1/16	1 1/4–11 1/2	1 1/4–11 1/2	1 11/16	2.236	8,948	11.2	13.9
25	6 1/4	**C256CBT**	32.2	13 3/8	19 5/8	3 3/8	3 5/16–12	1 15/16	1 7/8	2 1/4	1 7/8	2–11 1/2	2–11 1/2	2 9/16	5.157	9,699	25.8	24.6
	14 1/4	**C2514CBT**	73.5	21 3/8	35 5/8	3 3/8	3 5/16–12	1 15/16	1 7/8	2 1/4	1 7/8	2–11 1/2	2–11 1/2	2 9/16	5.157	9,699	25.8	40.2

ALUMINUM

RA-SERIES

20-100 TONS

Single Acting, Spring-Return



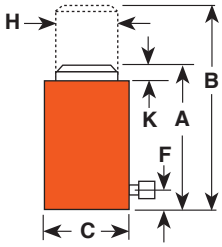
HALF THE WEIGHT OF EQUAL CAPACITY STEEL CYLINDERS.

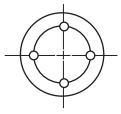
- Aluminum body resists sparking in explosive environments.
- Hard coated aluminum piston rod and cylinder bore resist wear and corrosion.
- Grooved piston top helps keep the load from sliding on top of piston.
- Designed for jacking and other non- production operations.

RA552

ASME B30.1
10,000 PSI

RA1006





Base Mtg. Holes (4) at 45° from coupler (RA556, RA5510) $^{3}/_{8}$"-16 x $4^{1}/_{2}$" Dia. B.C.

Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Ht. (in.)	B Extended Ht. (in.)	C Outside Dia. (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	K Piston Rod Protrusion (in.)	Bore Dia. (in.)	Cylinder Effective Area (sq. in.)	Internal Pressure at Cap. (psi)	Tons at 10,000 psi	Product Wt. (lbs.)
20	$2^{1}/_{8}$	**RA202**	9.41	$6^{3}/_{8}$	$8^{1}/_{2}$	$3^{3}/_{4}$	$1^{1}/_{4}$	2	$^{5}/_{16}$	$2^{3}/_{8}$	4.43	9,030	22.15	7.7
	$4^{1}/_{8}$	**RA204**	18.27	$8^{3}/_{8}$	$12^{1}/_{2}$	$3^{3}/_{4}$	$1^{1}/_{4}$	2	$^{5}/_{16}$	$2^{3}/_{8}$	4.43	9,030	22.15	9.3
	$6^{1}/_{8}$	**RA206**	27.13	$10^{3}/_{8}$	$16^{1}/_{2}$	$3^{3}/_{4}$	$1^{1}/_{4}$	2	$^{5}/_{16}$	$2^{3}/_{8}$	4.43	9,030	22.15	11.3
30	$2^{1}/_{8}$	**RA302**	13.79	$7^{3}/_{8}$	$9^{1}/_{2}$	$4^{1}/_{4}$	$1^{1}/_{4}$	$2^{1}/_{2}$	$^{3}/_{8}$	$2^{7}/_{8}$	6.49	9,250	32.45	11.1
	$4^{1}/_{8}$	**RA304**	26.77	$9^{3}/_{8}$	$13^{1}/_{2}$	$4^{1}/_{4}$	$1^{1}/_{4}$	$2^{1}/_{2}$	$^{3}/_{8}$	$2^{7}/_{8}$	6.49	9,250	32.45	13.1
	$6^{1}/_{8}$	**RA306**	39.75	$11^{3}/_{8}$	$17^{1}/_{2}$	$4^{1}/_{4}$	$1^{1}/_{4}$	$2^{1}/_{2}$	$^{3}/_{8}$	$2^{7}/_{8}$	6.49	9,250	32.45	15.1
55	$2^{1}/_{8}$	**RA552**	23.50	$6^{3}/_{4}$	$8^{7}/_{8}$	$5^{1}/_{4}$	$1^{3}/_{8}$	$3^{1}/_{8}$	$^{1}/_{4}$	$3^{3}/_{4}$	11.04	9,960	55.2	16.2
	$4^{1}/_{8}$	**RA554**	45.50	$8^{3}/_{4}$	$12^{7}/_{8}$	$5^{1}/_{4}$	$1^{3}/_{8}$	$3^{1}/_{8}$	$^{1}/_{4}$	$3^{3}/_{4}$	11.04	9,960	55.2	19.6
	$6^{1}/_{8}$	**RA556***	67.60	$10^{3}/_{4}$	$16^{7}/_{8}$	$5^{1}/_{4}$	$1^{3}/_{8}$	$3^{1}/_{8}$	$^{1}/_{4}$	$3^{3}/_{4}$	11.04	9,960	55.2	24.0
	10	**RA5510***	110.40	$15^{1}/_{8}$	$25^{1}/_{8}$	$5^{1}/_{4}$	$1^{3}/_{8}$	$3^{1}/_{8}$	$^{1}/_{4}$	$3^{3}/_{4}$	11.04	9,960	55.2	31.8
100	$2^{1}/_{8}$	**RA1002**	43.80	$7^{3}/_{4}$	$9^{7}/_{8}$	$7^{3}/_{8}$	$1^{3}/_{16}$	$4^{1}/_{8}$	$^{1}/_{8}$	$5^{1}/_{8}$	20.62	9,696	103.1	33.4
	$6^{1}/_{4}$	**RA1006***	129.00	$11^{3}/_{4}$	18	$7^{3}/_{8}$	$1^{3}/_{16}$	$4^{1}/_{8}$	$^{1}/_{8}$	$5^{1}/_{8}$	20.62	9,696	103.1	49.9

*** Equipped with carrying handles.**

LOW PROFILE

RLS Series

5-150 Ton

Single-Acting, Spring-Return

CYLINDERS

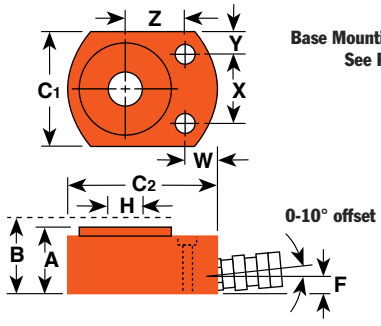
IDEAL FOR CONFINED AREAS FROM 1⅝" TO 4" CLEARANCE.

- Cylinder body, piston and gland nut "Power Tech" treated for corrosion and abrasion resistance (see page 8).
- Standard domed piston rod (5-30 ton) or swivel cap (50-150 ton) minimize effects of off-center loading.
- Unique heavy duty spring provides fast piston return.
- A 9796 ⅜" NPTF female half coupler is standard with each cylinder (the RLS50 has a ⅜" coupler which is not angled). Oil ports are ⅜" NPTF.
- Couplers on all cylinders, except RLS50, are angled upward for extra clearance.

RLS100

ASME B30.1
10,000 PSI

RLS1000S



Base Mounting Holes
See Page 229

Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Height (in.)	B Extended Height (in.)	C1 & C2 Outside Dia. (in.)	F Base to Port (in.)	H Piston Rod Prod. Dia. (in.)	W	X	Y	Z	Bore Dia. (in.)	Cyl. Eff. Area (sq. in.)	Int. Press. at Cap. (psi)	Tons at 10,000 psi	Prod. Wt. (lbs.)
									Mounting Hole Location (in.)								
5	9/16	RLS50	.62	1 5/8	2 3/16	1 5/8 x 2 9/16	3/4	5/8	3/4	1 1/8	1/4	1	1 1/8	.994	10,061	4.97	2.2
10	7/16	RLS100	1.0	1 3/4	2 3/16	2 3/16 x 3 1/4	5/8	3/4	11/16	1 7/16	3/8	1 5/16	1 11/16	2.236	8,943	11.18	3.3
20	7/16	RLS200	2.0	2	2 7/16	3 x 4	21/32	1 1/8	23/32	1 15/16	17/32	1 9/16	2 3/8	4.430	9,029	22.15	5.6
30	1/2	RLS300	3.2	2 5/16	2 13/16	3 3/4 x 4 1/2	23/32	1 3/8	13/16	2 1/16	27/32	1 3/4	2 7/8	6.492	9,242	32.46	8.6
50	5/8	RLS500S	6.0	2 5/8	3 1/4	4 1/2 x 5 1/2	27/32	1 3/4	15/16	2 5/8	15/16	2 1/8	3 1/2	9.621	10,394	48.10	14.0
75	5/8	RLS750S	9.9	3 1/8	3 3/4	5 17/32 x 6 1/2	1	2 1/8	15/16	3	1 17/64	2 19/32	4 1/2	15.904	9,431	79.52	23.3
100	5/8	RLS1000S	12.3	3 3/8	4	6 x 7	1	2 1/2	13/16	3	1 1/2	2 13/16	5	19.635	10,186	98.17	30.0
150	9/16	RLS1500S	17.2	4	4 9/16	7 1/2 x 8 1/2	1 5/16	3	1 5/16	4 5/8	1 7/16	3 1/8	6 1/4	30.680	9,778	153.39	52.0

SHORTY

RSS Series

10-250 Ton

Single-Acting, Spring-Return & Double-Acting

IDEAL FOR CONFINED AREAS FROM 3 1/2" TO 11 7/16" CLEARANCE.

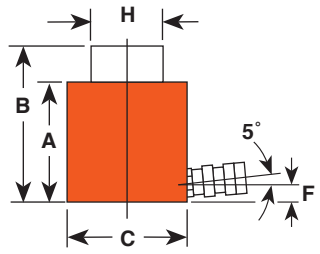
- Power Tech plated piston rods and gland nuts resist scoring and corrosion.
- Heavy duty return spring (except for double-acting models) provides fast piston return & low collapsed height.
- Coupler on 10 thru 50 ton models is angled upward 5° for added clearance.
- Grooved piston top keeps load from sliding.
- Cylinders can be "dead-ended" at full capacity.
- Removable carrying handles on 100 ton and 250 ton models.

RSS2503

RSS302

ASME B30.1
10,000 PSI

Cribbing blocks are shown in a 30 ton RSS302 "Shorty" cylinder. For more information see pg 38.



Cyl Capacity (Tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.) Push	Oil Cap. (cu. in.) Return	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	Bore Dia. (in.)	Cylinder Effective Area (sq. in.) Push	Internal Press. at Cap. (psi) Push	Tons at 10,000 psi Push	Prod. Wt. (lbs.)
10	1 1/2	**RSS101**	3.4	–	3 1/2	5	2 3/4	5/8	1 1/2	1 11/16	2.24	8,943	11.2	6.0
20	1 3/4	**RSS202**	7.7	–	3 3/4	5 1/2	3 9/16	5/8	2 5/32	2 3/8	4.43	9,029	22.1	9.9
30	2 7/16	**RSS302**	15.8	–	4 5/8	7 1/16	4	5/8	2 1/2	2 7/8	6.49	9,243	32.5	14.7
50	2 3/8	**RSS502**	22.8	–	5	7 3/8	4 7/8	3/4	3 1/8	3 1/2	9.62	10,393	48.1	23.2
100	2 1/4	**RSS1002**	44.2	–	5 1/2	7 3/4	6 5/8	15/16	4 3/8	5	19.63	10,186	98.2	47.3
100	1 1/2	**RSS1002D**	29.4	12.9	5 11/16	7 3/16	6 7/8	15/16*	3 3/4	5	19.63	10,186	98.2	54.6
250	3	**RSS2503**	150.6	–	11 7/16	14 7/16	9 7/8	1 13/16	5 1/2	8	50.22	9,956	251.1	220.0

*Cylinder top to port is 1 9/16

See pages 28-33 & 124-133 for hydraulic accessories.

CENTER HOLE

RH Series

10-100 Ton

Single-Acting, Spring-Return

CYLINDERS

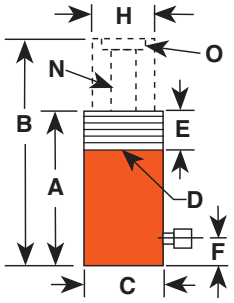
IDEAL FOR PULLING AND TENSIONING OF CABLES, ANCHOR BOLTS, FORCING SCREWS, ETC.

- Interchangeable piston head inserts (see page 39) provide versatility of application.
- 12, 20*, 30*, 50, 60 Ton Single-Acting Models Feature Threaded Collar
- Withstands full “dead-end” loads.
- Corrosion resistant standpipe has “Power Tech” treatment.
- All cylinders except RH120 are furnished with a 9796 3/8" NPT female half coupler.
- Aluminum cylinder body and piston are featured on the RHA306 cylinder.

* Model RH203 and RHA306 do not feature the collar thread. See the chart below.

ASME B30.1
10,000 PSI

10, 20, 100 Ton Single-Acting Models Feature Plain Collar



Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	D Collar Thread (in.)	E Collar Thread Length (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	N Center Hole Dia. (in.)	O Insert Thread and Size (in.)	Mounting Holes Bolt Circle (in.)	Cylinder Effective Area (sq. in.)	Internal Press. at Cap. (psi)	Tons at 10,000 psi	Prod. Wt. (lbs.)
10	2 1/2	RH102	5.52	5 5/16	7 13/16	3	None	None	1	2 1/16	49/64	1 3/4-12	1/4-20 x 2 3/8	2.21	9,054	11	9
10	8	RH108	17.68	11 5/16	19 5/16	3	None	None	1	2 1/16	49/64	1 3/4-12	1/4-20 x 2 3/8	2.21	9,054	11	18.7
12	5/16	RH120**	.87	2 3/16	2 1/2	2 3/4	2 3/4-16	1 1/4	3/8	1 3/8	11/16	3/4-16	5/16-18 x 2	2.76	8,692	13.8	3
12	1 5/8	RH121	4.49	4 13/16	6 7/16	2 3/4	2 3/4-16	1 1/4	1	1 3/8	51/64	None	None	2.76	8,692	13.8	6.6
12	1 5/8	RH121T**	4.49	4 13/16	6 7/16	2 3/4	2 3/4-16	1 1/4	1	1 3/8	11/16	3/4-16	None	2.76	8,692	13.8	6.6
12	3	RH123	8.29	7 1/4	10 1/4	2 3/4	2 3/4-16	13/16	1	1 3/8	13/16	None	None	2.76	8,692	13.8	8.9
20	2	RH202	9.45	6 1/8	8 1/8	3 7/8	3 7/8-12	1 1/2	1	2 1/8	1 5/64	1 9/16-16	3/8-16 x 3 1/4	4.72	8,466	23.6	16.1
20	3	RH203	11.76	6 1/16	9 1/16	4	None	None	1	2 3/4	1 3/64	2 1/4-12	3/8-16 x 3 1/4	3.92	10,186	19.6	20
20	6	RH206	28.35	12 1/8	18 1/8	3 7/8	3 7/8-12	1 1/2	1	2 1/8	1 5/64	1 9/16-16	3/8-16 x 3 1/4	4.72	8,466	23.6	30.2
30	2 1/2	RH302	15.85	6 1/4	8 3/4	4 3/4	4 3/4-12	1 1/2	1 5/32	3 1/4	1 19/64	2 3/4-12	7/16-20 x 3 5/8	6.34	9,457	31.7	25.6
30	5 7/8	RHA306	38.1	11 5/32	17 1/32	5 1/8	None	None	1 1/4	3 1/4	1 9/32	2 5/8-8	None	6.34	9,457	31.7	21.9
30	6	RH306	38.1	9 3/4	15 3/4	4 3/4	4 3/4-12	1 1/2	1 5/32	3 1/4	1 9/32	2 3/4-12	7/16-20 x 3 5/8	6.34	9,457	31.7	39
50	3	RH503	32.58	7 1/8	10 1/8	6	6-12	2	1 1/4	4 1/8	1 43/64	3 1/4-12	5/8-18 x 4 3/4	10.86	9,208	54.3	46.6
60	3	RH603*	37	9 1/4	12 1/4	6 1/4	6 1/4-12	2 1/2	1	3 19/32	2 1/8	3-12	1/2-13 x 5 1/8	12.31	9,750	61.6	60
60	6	RH606*	73.86	12 1/4	18 1/4	6 1/4	6 1/4-12	2 1/2	1	3 19/32	2 1/8	3-12	1/2-13 x 5 1/8	12.31	9,750	61.6	78
100	3	RH1003*	61.8	10	13	8 3/8	None	None	1 1/4	5	3 1/8	4 1/8-12	None	20.62	9,700	103.1	115

*Supplied with carrying handles.

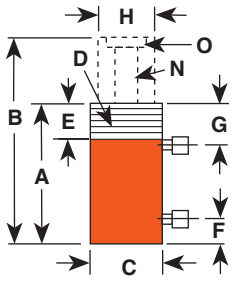
Aluminum

** RH120 and RH121T do not have an internal threaded insert, but do have a 3/4-16 internal thread. The RH120 inlet port is 1/4" NPTF.

FOR PULLING AND TENSIONING OF CABLES, ANCHOR BOLTS, FORCING SCREWS.

- Interchangeable piston head inserts (see page 39) provide versatility of application.
- Built-in safety feature prevents over-pressurization of the retract circuit.
- Plated piston rod resists wear; superior packings provide high cycle life without leakage.
- Corrosion-resistant standpipe has "Power Tech" treatment (see page 8).
- Each cylinder has 9796 3/8" NPTF female half couplers. The 60 ton thru 200 ton steel models are equipped with removable carrying handles.

ASME B30.1
10,000 PSI



30, 60, 100 Ton Double-Acting Models Feature Threaded Collar

Cyl. Cap. (tons) Push	Cyl. Cap. (tons) Pull	Stroke (in.)	Order No.	Oil Cap. (cu.in.) Push	Oil Cap. (cu.in.) Pull	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	D Collar Thread (in.)	E Collar Thread Length (in.)	F Base to Port (in.)	G Cylinder Top to Port (in.)	H Piston Rod Dia. (in.)	N Center Hole Dia. (in.)	O Insert Thread Size (in.)	Mounting Holes and Bolt Circle (in.)	Cylinder Effective Area (sq.in.) Push	Cylinder Effective Area (sq.in.) Pull	Internal Pressure at Cap. (psi) Push	Internal Pressure at Cap. (psi) Pull	Tons at 10,000 psi (in.) Push	Tons at 10,000 psi (in.) Pull	Prod. Wt (lbs.)
30	15	3	**RH303**	17.6	10.2	7 1/16	10 1/16	4 3/4	None	None	1	1 5/8	2 1/2	1 9/32	2-12	3/8-16x3 5/8	5.89	3.38	10,200	8,876	29.5	16.9	29.8
30	15	6	**RH306D**	35.34	20.28	11 1/16	17 1/16	4 3/4	None	None	1	1 5/8	2 1/2	1 17/64	2-12	7/16-20x3 5/8	5.89	3.38	10,200	8,876	29.5	16.9	45
30	20	10 1/8	**RH3010**	66	41	17 1/4	27 3/8	4 1/2	4 1/2-12	1 5/8	1 3/4	3 3/16	2 3/8	1 5/16	1 7/8-16	None	6.54	4.04	9,174	9,901	32.7	20. 2	61
60	25	4	**RHA604D**	49.2	20.6	9 1/2	13 1/2	7	None	None	1 9/16	2 1/4	4	2 1/8	3-12	1/2-13x5 1/8	12.31	5.15	9,750	9,709	61.5	27.7	35.6
60	25	5	**RH605***	61.55	25.77	9 1/2	14 1/2	6 17/32	None	None	1	1 3/4	4	2 1/8	3-12	1/2-13x5 1/8	12.31	5.15	9,750	9,709	61.5	27.7	73
60	40	10 1/8	**RH6010***	133	87	18 1/16	28 3/16	6 1/4	6 1/4-12	1 7/8	2 1/8	3 7/32	3 5/8	2 1/8	3-16	None	13.14	8.59	9,132	9,313	65.7	42.9	120
100	45	1 1/2	**RH1001**	32.1	14.2	6 1/2	8	8 3/8	None	None	1 1/4	2 5/16	5	3 9/64	4-16	5/8-11x7	21.39	9.43	9,350	9,544	106.9	47.1	85
100	50	6	**RH1006***	120.26	5.6	12 3/8	18 3/8	7 1/4	None	None	1 15/32	2 21/64	4 3/8	2 1/16	None	1/2-13x5 1/2	20.03	10.93	9,986	9,150	100.1	54.7	95
100	45	10 1/8	**RH10010***	216.6	95.5	19 1/2	29 5/8	8 1/2	8 1/2-12	2 1/4	2 1/2	3 39/64	5 1/2	3 9/64	4 1/2-12	None	21.39	9.43	9,350	9,544	106.9	47.1	240
150	70	5	**RH1505***	150.9	73.6	12 1/4†	17 1/4	8 1/2	None	None	1 15/32	2 11/16	5 1/2	2 9/16	None	None	30.1	14.7	9,937	9,524	150.9	73.6	148
150	75	8	**RH1508***	239.6	127.2	13 3/4	21 3/4	9 3/4	None	None	1 35/64	2 13/32	6	3 5/32	5-12	None	29.95	15.9	10,015	9,434	149.8	79.5	227
200	75	8	**RH2008***	323.6	127.6	16 1/16	24 1/16	10 3/4	None	None	2 1/4	3 7/32	7 1/2	4 1/16	6-12	1 1/4-7 x 7 3/4	40.45	15.95	9,888	9,404	202.3	79.8	311

* Supplied with carrying handles.
† Measured with 3/4" high serrated insert installed.
See pages 34-39 & 104-133 for hydraulic accessories.

Aluminum

CENTER HOLE

RT Series

17½-100 Ton
Single- Acting, Spring-
Return & Double-Acting

CYLINDERS

RT 302

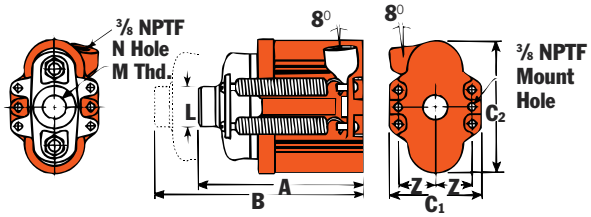
ASME B30.1
10,000 PSI

IDEAL FOR PULLING AND PRESSING.

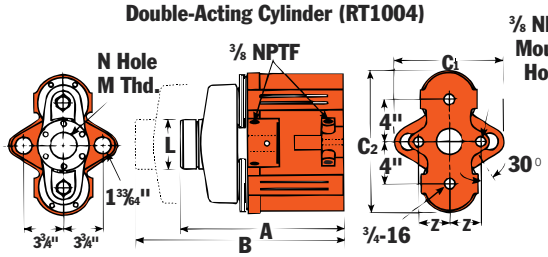
- A proven design; used throughout industry for over 45 years.
- Cylinders withstand full "dead-end" loads.
- Compact design; ideal for applications in which space is limited.
- Basic head can be changed from a tapped hole to plain hole by simply changing insert. (See page 39)
- Pistons have "Power Tech" treatment for corrosion and abrasion resistance.

RT 1004

Dimensions for reference only.
Single-Acting, Spring-Return Cylinders



Double-Acting Cylinder (RT1004)



Cyl. Capacity (Tons)	Stroke (in.)	Order No.	Oil Cap. (cu.in.) Push	Oil Cap. (cu.in.) Return	A Retracted Height (in.)	B Extended Height (in.)	C1 Outside Dia. (in.)	C2 Outside Dia. (in.)	L Load Cap Dia. (in.)	M Load Cap Thread (in.)	N Center Hole Dia. (in.)	Z Mounting Hole Location (in.)	Mounting Hole (in.)	Cyl. Eff. Area (sq.in.)	Int. Press at Cap. (psi)	Tons at 10,000 psi	Prod Wt. (lbs.)
17 ½	2	RT172	7.06	–	6 7/8	8 7/8	3 3/4	5 3/4	1 3/4	1"–8	1 1/32	1 1/2	11/32	3.53	9,915	17.7	14.6
30	2 1/2	RT302	15.7	–	8 7/16	10 15/16	4 1/4	7 1/2	2 1/4	1 1/4"–7	1 19/64	1 13/16	15/32	6.28	9,554	31.4	28.2
50	3	RT503	29.4	–	10 9/16	13 9/16	5 7/8	9 3/8	2 7/8	1 5/8"–5 1/2	1 43/64	2 3/8	21/32	9.81	10,193	49.1	56.0
100	4 7/8**	RT1004	96.5	63.2	15 1/8	20	10 1/2	13 1/4	4 3/4	2 1/2"–8	2 9/16	2 7/8	25/32	19.24*	10,395	96.2	160

** The RT1004 has a bypass when full stroke is reached, preventing over-pressurization of the cylinder.

NOTE: Each cylinder complete with threaded cylinder head insert, cylinder half coupler and cylinder attaching screws.

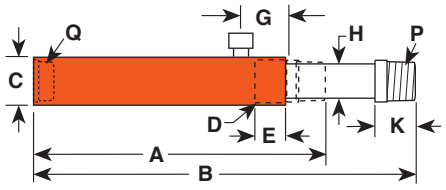
RP55

DESIGNED FOR PULLING AND TENSIONING.

- Heavy duty compression spring provides long cycle life and rapid extension of piston.
- Spring automatically extends piston rod when pump pressure is released.

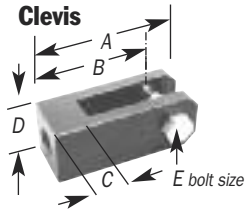
ASME B30.1
10,000 PSI

RP25



Cyl. Cap. (Tons) Pull	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	D Collar Thread (in.)	E Collar Thread Length (in.)	G Cylinder Top to Port (in.)	H Piston Rod Dia. (in.)	K Piston Rod Protrusion (in.)	P Piston Rod Thread (NPTF)	Q Base Thread (NPTF)	Bore Dia. (in.)	Cyl. Eff. Area (sq. in.) Pull	Internal Pressure at. Cap. (psi) Pull	Tons at 10,000 psi Pull	Prod. Wt. (lbs.)
2	5	**RP25**	2.76	9 9/16	14 9/16	1 3/4	1 1/2-16	1	1 11/16	3/4	1	3/4-14	3/4-14	1 1/8	0.55	7,250	2.75	4
5	5 1/2	**RP55**	6.22	11 7/8	17 3/8	2 1/4	2 1/4-14	1	1 11/16	1 3/16	1 3/8	1 1/4-11 1/2	1 1/4-11 1/2	1 11/16	1.13	8,850	5.65	11

Clevis



Clevis ORDERING INFORMATION

Use with Cyl No.	Order No.	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)
RP25	421057*	5 1/8	4 5/16	1 5/16	2	3/4
RP55	421056**	6	5	1 1/2	2 1/2	7/8

*For base mounting, extension rod 351106 is required.
**For base mounting, extension rod 351075 is required.

DOUBLE ACTING

RD Series

10-500 Ton

Double Acting, Hydraulic-Return

CYLINDERS

HIGH TONNAGE PREMIUM DESIGN FOR HIGH CYCLE LIFE.

- Perfect for bridge lifting, building reconstruction, shipyard, utility and mining equipment maintenance.
- Aluminum bronze overlay bearings provide long life, chrome plated piston rod resists corrosion.
- Load cap snaps out to expose internal piston rod threads for pulling applications; threads withstand full tonnage.
- Grooved ring pattern in load cap helps guard against load slippage.
- Each cylinder has two 9796 3/8" NPTF female half couplers.
- Built-in safety relief valve prevents over-pressurization of the retract circuit.
- Feature mounting holes and collar threads.

Four special order 500 ton, 24" stroke cylinders used in a swaging press for crimping 3½" wire rope.

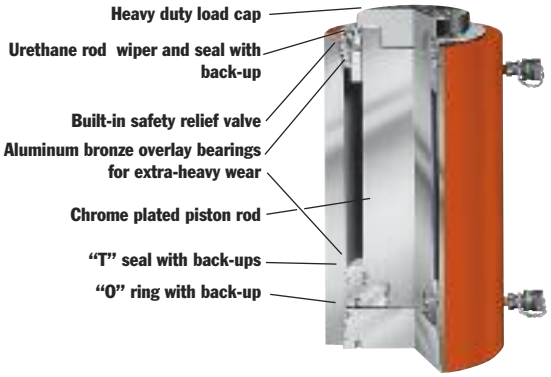
RD10013

RD300

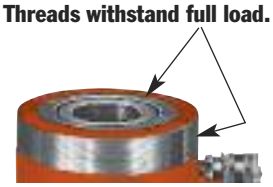
RD556

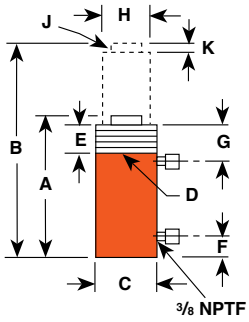
ASME B30.1
10,000 PSI

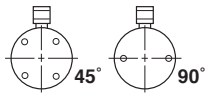
Features of RD Series Cylinders



Threads withstand full load.







Base mounting holes **see page 229.**

Cyl. Cap. (tons) Push	Cyl. Cap. (tons) Pull	Stroke (in.)	Order No.	Oil Capacity (cu.in.) Push	Oil Capacity (cu.in.) Pull	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	D Collar Thread Size (in.)	E Thread Length (in.)	F Base to Port trusion (in.)	G Cylinder Piston Top to Port (in.)	H Piston Rod Dia. Depth (in.)	J Rod Int. and (in.)	K Piston Rod Protrusion (in.)	Load Cap Dia. (in.)	Bore Dia. (in.)	Cyl. Eff. Area (sq.in.) Push	Cyl. Eff. Area (sq.in.) Pull	Int. Press. at Cap. Push	Int. Press. at Cap. Pull	Tons at 10,000 psi Push	Tons at 10,000 psi Pull	Prod. Wt. (lbs.)
10	4	6 1/4	**RD106**	13.9	5.5	11 11/16	17 15/16	3	2 3/4-12	1 5/8	1	2 1/2	1 5/16	1-8x1	1/4	1 3/8	1 11/16	2.23	0.88	8,943	9,055	11.2	4.4	22
10	4	10	**RD1010**	22.3	8.8	15 11/16	25 11/16	3	2 3/4-12	1 5/8	1	2 1/2	1 5/16	1-8x1	1/4	1 3/8	1 11/16	2.23	088	8,943	9,055	11.2	4.4	28
25	8	6 1/4	**RD256**	32.2	10.1	12 3/8	18 5/8	4	4-12	1 5/8	1	2 1/2	2 1/8	1 1/2-16x1	3/8	2 1/8	2 9/16	5.15	1.61	9,695	9,934	25.8	8.0	39.8
25	8	14 1/4	**RD2514**	73.5	22.9	20 3/8	34 5/8	4	4-12	1 5/8	1	2 1/2	2 1/8	1 1/2-16x1	3/8	2 1/8	2 9/16	5.15	1.61	9,695	9,934	25.8	8.0	65
55	28	6 1/4	**RD556**	69.0	35.2	12 31/32	19 7/32	5	5-12	1 5/8	1 5/16	2 1/2	2 5/8	1 11/16-8X1 3/16	5/8	2 5/8	3 3/4	11.04	5.63	9,959	9,941	55.2	28.2	61.4
55	28	13 1/8	**RD5513**	144.9	73.9	19 27/32	32 31/32	5	5-12	1 5/8	1 5/16	2 1/2	2 5/8	1 11/16-8X1 3/16	5/8	2 5/8	3 3/4	11.04	5.63	9,959	9,941	55.2	28.2	90
55	28	18 1/8	**RD5518**	200.0	102.0	25 7/8	44	5	5-12	1 5/8	1 5/16	2 1/2	2 5/8	1 11/16-8X1 3/16	5/8	2 5/8	3 3/4	11.04	5.63	9,959	9,941	55.2	28.2	142
80	44	13 1/8	**RD8013**	208.6	115.9	20 3/8	33 1/2	5 3/4	5 3/4-12	1 5/8	1 1/2	2 1/2	3	2-4 1/2x1 1/2	9/16	2 7/8	4 1/2	15.90	8.84	10,060	9,954	79.5	44.2	118
100	44	6 5/8	**RD1006**	136.7	58.5	13 25/32	20 13/32	6 7/8	6 7/8-12	1 5/8	1 1/2	2 1/2	3 7/8	2 3/4-12x1 5/32	5/8	3 7/8	5 1/8	20.63	8.84	9,695	9,959	103.1	44.2	126
100	44	13 1/8	**RD10013**	270.7	116.0	20 9/32	33 13/32	6 7/8	6 7/8-12	1 5/8	1 1/2	2 1/2	3 7/8	2 3/4-12x1 5/32	5/8	3 7/8	5 1/8	20.63	8.84	9,695	9,959	103.1	44.2	181
100	44	20 1/8	**RD10020**	415.2	178.0	28 9/32	48 13/32	6 7/8	6 7/8-12	1 5/8	1 1/2	2 1/2	3 7/8	2 3/4-12x1 5/32	5/8	3 7/8	5 1/8	20.63	8.84	9,695	9,959	103.1	44.2	260
150	73	6 5/8	**RD1506**	203.3	97.9	14 7/8	21 1/2	8 1/4	8 1/4-12	1 5/8	2	2 1/2	4 1/2	3 1/4-8x1 1/2	13/16	4 1/2	6 1/4	30.68	14.78	9,779	9,880	153.4	73.8	188
150	73	13 1/8	**RD15013**	402.7	193.9	21 3/8	34 1/2	8 1/4	8 1/4-12	1 5/8	2	2 1/2	4 1/2	3 1/4-8x1 1/2	13/16	4 1/2	6 1/4	30.68	14.78	9,779	9,880	153. 4	73.8	272
150	73	18 1/8	**RD15018**	556.8	267.8	26 17/32	44 21/32	8 1/4	8 1/4-12	1 5/8	2	2 1/2	4 1/2	3 1/4-8x1 1/2	3/4	4 1/2	6 1/4	30.68	14.78	9,779	9,880	153.4	73.8	376
200	113	6 5/8	**RD2006**	273.5	149.8	16	22 5/8	9 1/2	9 1/2-12	1 5/8	2 1/2	2 11/16	4 7/8	3 1/4-8x2 1/4	1 1/16	4 1/2	7 1/4	41.28	22.62	9,689	9,992	206.4	113 .1	262
200	113	13 1/8	**RD20013**	541.8	296.9	22 1/2	35 5/8	9 1/2	9 1/2-12	1 5/8	2 1/2	2 11/16	4 7/8	3 1/4-8x2 1/4	1 1/16	4 1/2	7 1/4	41.28	22.62	9,689	9,992	206.4	113.1	356
200	113	18 1/8	**RD20018**	748.2	409.9	28 1/2	46 5/8	9 1/2	9 1/2-12	1 5/8	2 1/2	2 11/16	4 7/8	3 1/4-8x2 1/4	1 1/16	4 1/2	7 1/4	41.28	22.62	9,689	9,992	206.4	113.1	442
300	147	6	**RD3006**	361.0	177.0	17 9/32	23 9/32	10 3/4	10 1/2-12	2 3/8	3 3/8	3 3/8	6 1/4	2 1/2-12x3 1/4	1 1/8	6 7/8	8 3/4	60.13	29.45	9,978	10,000	300.7	147.3	380
300	147	13	**RD30013**	782.0	383.0	24 13/16	37 13/16	10 3/4	10 1/2-12	2 3/8	3 3/8	3 3/8	6 1/4	2 1/2-12x3 1/4	1 1/8	6 7/8	8 3/4	60.13	29.45	9,978	10,000	300.7	147.3	654
400	186	6	**RD4006**	471.0	247.0	19 9/32	25 9/32	12 5/8	12 1/2-8	2 3/4	3 27/32	3 27/32	7 1/4	3-12x3 3/4	1 1/4	7 13/16	10	78.54	37.26	10,185	10,000	392.7	186.3	585
400	186	13	**RD40013**	1021.0	536.0	26 9/32	39 9/32	12 5/8	12 1/2-8	2 3/4	3 27/32	3 27/32	7 1/4	3-12x3 3/4	1 1/4	7 13/16	10	78.54	37.26	10,185	10,000	392.7	186.3	770
500	245	6	**RD5006**	596.0	295.0	20 9/16	26 9/16	14 3/4	14 3/4-8	3 1/8	4 5/32	4 5/32	8	3 1/4-12x4 1/4	1 1/2	8 1/2	11 1/4	99.40	49.14	10,060	10,000	497.0	245.6	819
500	245	13	**RD50013**	1292.0	639.0	27 9/16	40 9/16	14 3/4	14 3/4-8	3 1/8	4 5/32	4 5/32	8	3 1/4-12x4 1/4	1 1/2	8 1/2	11 1/4	99.40	49.14	10,060	10,000	497.0	245.6	1092

HIGH TONNAGE

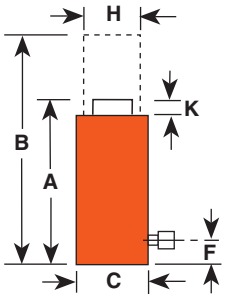
R Series

55-565 Ton

Single-Acting Load-Return

CYLINDERS

HIGH-TONNAGE, LOW CYCLE, GRAVITY RETURN.



R2802C

ASME B30.1
10,000 PSI

- Visible indicator band alerts when stroke limit is reached; overflow port ("weep hole") stroke limiter prevents piston from being overextended.
- Alloy heat treated piston and body for reliability and strength.
- Plated piston rod increases corrosion resistance and gives superior bearing support.

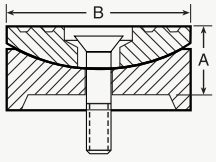
Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Ht. (in.)	B Extended Ht. (in.)	C Outside Dia. (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	K Piston Rod Protrusion (in.)	Bore Dia. (in.)	Cylinder Effective Area (sq. in.)	Internal Pressure at Cap. (psi)	Tons at 10,000 psi	Product Wt. (lbs.)
55	2	**R552C**	22.1	4 15/16	6 15/16	5	1	3 3/4	1/8	3 3/4	11.04	9,960	55.2	27
55	6	**R556C**	66.3	8 15/16	14 15/16	5	1	3 3/4	1/8	3 3/4	11.04	9,960	55.2	50
55	10	**R5510C**	110.4	12 15/16	22 15/16	5	1	3 3/4	1/8	3 3/4	11.04	9,960	55.2	72
100	2	**R1002C**	41.3	5 1/2	7 1/2	6 1/2	1	5 1/8	1/8	5 1/8	20.63	9,695	103.2	52
100	6	**R1006C**	123.8	9 1/2	15 1/2	6 1/2	1	5 1/8	1/8	5 1/8	20.63	9,695	103.2	89
150	2	**R1502C**	61.4	6 3/8	8 3/8	8 1/16	1 1/4	6 1/4	1/8	6 1/4	30.68	9,778	153.4	92
150	6	**R1506C**	184.1	10 3/8	16 3/8	8 1/16	1 1/4	6 1/4	1/8	6 1/4	30.68	9,778	153.4	151
150	10	**R15010C**	306.8	14 3/8	24 3/8	8 1/16	1 1/4	6 1/4	1/8	6 1/4	30.68	9,778	153.4	210
200	2	**R2002C**	82.6	7 1/2	9 1/2	9 1/4	1 5/8	7 1/4	1/8	7 1/4	41.28	9,690	206.4	145
200	6	**R2006C**	247.7	11 1/2	17 1/2	9 1/4	1 5/8	7 1/4	1/8	7 1/4	41.28	9,690	206.4	221
280	2	**R2802C**	113.5	7 1/2	9 1/2	10 1/4	1 5/8	8 1/2	1/8	8 1/2	56.74	9,870	283.7	201
280	6	**R2806C**	340.4	11 1/2	17 1/2	10 7/8	1 5/8	8 1/2	1/8	8 1/2	56.74	9,870	283.7	300
355	2	**R3552C**	141.8	9 1/8	11 1/8	11 3/4	2 1/8	9 1/2	1/8	9 1/2	70.88	10,017	354.4	302
355	6	**R3556C**	425.3	13 1/8	19 1/8	11 3/4	2 1/8	9 1/2	1/8	9 1/2	70.88	10,017	354.4	434
355	10	**R35510C**	708.8	17 1/8	27 1/8	11 3/4	2 1/8	9 1/2	1/8	9 1/2	70.88	10,017	354.4	565
430	2	**R4302C**	173.2	10 3/8	12 3/8	13	2 1/2	10 1/2	1/8	10 1/2	86.59	9,932	433.0	440
430	6	**R4306C**	519.5	14 3/8	20 3/8	13	2 1/2	10 1/2	1/8	10 1/2	86.59	9,932	433.0	609
565	2	**R5652C**	226.2	11 1/2	13 1/2	14 7/8	2 3/4	12	1/8	12	113.10	9,991	565.5	638
565	6	**R5656C**	678.6	15 1/2	21 1/2	14 7/8	2 3/4	12	1/8	12	113.10	9,991	565.5	858
565	10	**R56510C**	1131.0	19 1/2	29 1/2	14 7/8	2 3/4	12	1/8	12	113.10	9,991	565.5	1078

SWIVEL CAPS

Reduce the effects of off center loading. Tilts up to 5 degrees. Radial grooves on top of cap reduce load slippage.

For use with "RC" cylinders

Use with Cyl. No.	Swivel Cap Order No.	Wt. (lbs.)	A (in.)	B (in.)
150-200 ton	**420867**	8.8	1 1/2	5 1/8
280 ton	**420868**	13.5	1 3/4	5 7/8
355 ton	**420869**	37	2 3/4	7 11/16
430 ton	**420870**	52	3 1/8	8 7/8
565 ton	**420871**	78	3 5/8	9 7/8

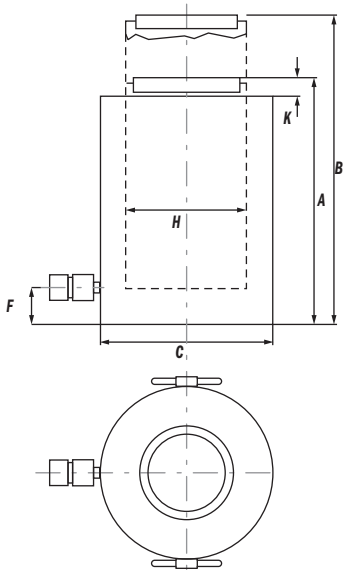


Reduce the effects of off-center loading. Tilts up to 5 degrees. Radial grooves on top of cap reduce load slippage. Notch across face of each cap helps keep loads having a protruding or round shaped centered.

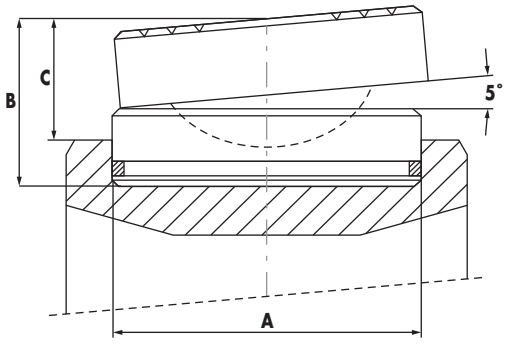
HIGH-TONNAGE, LOW CYCLE, GRAVITY RETURN.

- Overflow port ("weep hole") prevents piston from being overextended under load.
- Alloy heat treated piston and body for reliability and strength.
- Plated piston rod increases corrosion resistance and gives superior bearing support.

Single-Acting High Tonnage Cylinders



Swivel Cap



Order No.	Used with Cyl. Order No.	A in.	B in.	C in.	Product Wt. lbs.
2000824	**RC740*C, RC965*C,**	11.4	5.5	3.9	158.7
2000825	**RC1220*C**	12.7	6.9	4.9	249.1

In mm Cyl. Cap. (tons)	Stroke (in.)	Order No. (Cu. in.)	Oil Cap. (in.)	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	F Base to Port (in.)	Piston Rod Dia. (in.)	H Piston Rod Protrusion (in.)	K Bore Dia. (in.)	Cyl. Effective Area (cu. in.)	Tons @ 10,000 psi	Product Wt. (lbs.)
740	2.0	**RC7402C**	293.6	10.4	12.4	16.9	2.6	13.8	0.4	13.8	149.1	742	661
740	6.0	**RC7406C**	880.7	14.4	20.3	16.9	2.6	13.8	0.4	13.8	149.1	742	917
740	10	**RC74010C**	1,467.8	18.3	28.1	16.9	2.6	13.8	0.4	13.8	149.1	742	1,168
965	2.0	**RC9652C**	383.2	11.4	13.4	19.3	2.8	15.7	0.4	15.7	194.8	970	933
965	6.0	**RC9656C**	1,150.2	15.4	21.3	19.3	2.8	15.7	0.4	15.7	194.8	970	1,272
965	10	**RC96510C**	1,916.2	19.3	29.1	19.3	2.8	15.7	0.4	15.7	194.8	970	1,598
1220	2.0	**RC12202C**	485.1	16.3	18.1	21.7	3.1	17.7	0.4	17.7	246.5	1227	1,689
1220	6.0	**RC12206C**	1,455.8	20.2	26.1	21.7	3.1	17.7	0.4	17.7	246.5	1227	2,116
1220	10	**RC122010C**	2,452.2	24.4	34.2	21.7	3.1	17.7	0.4	17.7	246.5	1227	2,529

HIGH TONNAGE

R Series

100-565 Ton

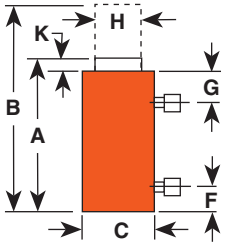
Double-Acting, Hydraulic-Return

CYLINDERS

HIGH-TONNAGE, LOW CYCLE, HYDRAULIC RETURN.

- Cylinders come standard with swivel caps to reduce the effects of off-center loading.
- Cylinders may be "dead-ended" without damage.
- Hard chrome plated, heat treated piston rod reduces wear on piston and gland nut.
- Built-in safety relief valve prevents over-pressurization of the retract circuit.
- Each cylinder has two 9796 3⁄8" NPTF female half couplers.

R2806D



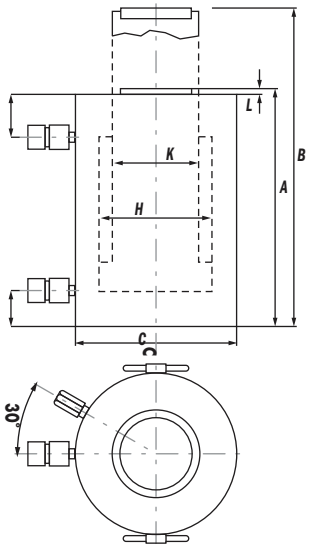
R1502D

Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Capacity (cu. in.) Push	Oil Capacity (cu. in.) Return	A Retracted Height (in.)	B Extended Dia. (in.)	C Outside Dia. (in.)	F Base to Port (in.)	G Cylinder Top to Dia. (in.)	H Piston Rod Dia. (in.)	K Piston Rod Protrusion (in.)	Bore Dia. (in.)	Cylinder Effective Area (sq. in.) Push	Internal Press. at Cap. Push	Tons at 10,000 psi Push	Prod. Wt. (lbs.)
100	2	**R1002D**	41.2	19.2	6 41/64	8 41/64	6 1/2	1	2 13/64	3 3/4	9/32	5 1/8	20.60	9,695	103.0	54
100	6	**R1006D**	123.6	57.6	10 41/64	16 41/64	6 1/21	1	2 13/64	3 3/4	9/32	5 1/8	20.60	9,695	103.0	81
100	10	**R10010D**	206.0	96.0	14 41/64	24 41/64	6 1/2	1	2 13/64	3 3/4	9/32	5 1/8	20.60	9,695	103.0	108
150	2	**R1502D**	61.4	29.6	7 7/16	9 7/16	8 1/16	1 1/4	2 1/4	4 1/2	19/64	6 1/4	30.70	9,778	153.4	95
150	6	**R1506D**	184.2	88.8	11 7/16	17 7/16	8 1/16	1 1/4	2 1/4	4 1/2	19/64	6 1/4	30.70	9,778	153.4	136
200	2	**R2002D**	82.6	39.2	8 9/64	10 9/64	9 1/4	1 5/8	2 5/16	5 1/4	11/32	7 1/4	41.30	9,690	206.4	136
200	6	**R2006D**	247.8	117.6	12 9/64	18 9/64	9 1/4	1 5/8	2 5/16	5 1/4	11/32	7 1/4	41.30	9,690	206.4	187
200	10	**R20010D**	413.0	196.0	16 9/64	26 9/64	9 1/4	1 5/8	2 5/16	5 1/4	11/32	7 1/4	41.30	9,690	206.4	239
280	2	**R2802D**	113.4	47.2	9 13/64	11 13/64	10 7/8	1 7/8	2 37/64	6 1/2	13/32	8 1/2	56.70	9,870	283.7	219
280	6	**R2806D**	340.2	141.6	13 13/64	19 13/64	10 7/8	1 7/8	2 37/64	6 1/2	13/32	8 1/2	56.70	9,870	283.7	297
280	10	**R28010D**	567.0	236.0	17 13/64	27 13/64	10 7/8	1 7/8	2 37/64	6 1/2	13/32	8 1/2	56.70	9,870	283.7	376
355	2	**R3552D**	141.8	47.4	11 3/8	13 3/8	11 3/4	2 1/8	2 3/4	7 3/4	7/16	9 1/2	70.90	10,017	354.4	324
355	6	**R3556D**	425.4	142.2	15 3/8	21 3/8	11 3/4	2 1/8	2 3/4	7 3/4	7/16	9 1/2	70.90	10,017	354.4	421
430	2	**R4302D**	173.2	59.6	12 5/16	14 5/16	13	2 1/2	2 61/64	8 1/2	15/32	10 1/2	86.60	9,932	433.0	439
430	6	**R4306D**	519.6	178.8	16 5/16	22 5/16	13	2 1/2	2 61/64	8 1/2	15/32	10 1/2	86.60	9,932	433.0	558
430	10	**R43010D**	866.0	298.0	20 5/16	30 5/16	13	2 1/2	2 61/64	8 1/2	15/32	10 1/2	86.60	9,932	433.0	673
565	2	**R5652D**	226.2	76.8	13 19/32	15 19/32	14 7/8	2 3/4	3 13/64	9 3/4	35/64	12	113.10	9,991	565.5	619
565	6	**R5656D**	678.6	230.4	17 19/32	23 19/32	14 7/8	2 3/4	3 13/64	9 3/4	35/64	12	113.10	9,991	565.5	772
565	10	**R56510D**	1131.0	384.0	21 19/32	31 19/32	14 7/8	2 3/4	3 13/64	9 3/4	35/64	12	113.10	9,991	565.5	926

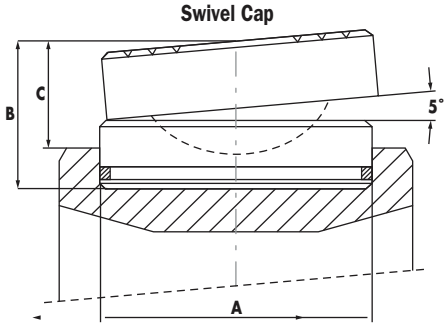
HIGH TONNAGE CYLINDERS RUGGED AND RELIABLE

- Cylinders come standard with hardened caps.
- Cylinders may be “dead-ended” without damage.
- Safety relief valve prevents over-pressurization of the retract circuit.
- Each cylinder has two 9796 3⁄8" NPTF female half couplers.

Double-Acting High Tonnage Cylinders



Swivel Cap



- **OPTIONAL SWIVEL CAPS REDUCE THE EFFECTS OF OFF-CENTER LOADING.**

Order No.	Used with Cyl. Order No.		A in.	B in.	C in.	Product Wt. lbs.
2000822	**RC740*D**		7.9	3.1	2.2	42.5
2000823	**RC965*D**		9.8	4.1	3.0	88.2
2000825	**RC1220*D**	12.7	6.9	4.9	249.1	

In mm Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	F Base to Port (in.)	G Cyl. Top to Port (in.)	H Bore Dia. (in.)	K Piston Rod Dia. (in.)	L Piston Rod Protrusion (in.)	Cyl. Effective Area (cu. in.)	10,000 psi	Product Wt.
740	2.0	**RC7402D**	293.6	11.1	13.1	16.9	2.6	3.9	13.8	11.01	0.4	149.1	742	670
740	6	**RC7406D**	880.7	15.7	21.6	16.9	2.6	3.9	13.8	11.01	0.4	149.1	742	877
740	10	**RC74010D**	1,467.8	20.0	29.8	16.9	2.6	3.9	13.8	11.01	0.4	149.1	742	1080
965	2.0	**RC9652D**	383.2	12.2	14.2	19.3	2.8	4.5	15.7	14.17	0.4	194.8	970	957
965	6	**RC9656D**	1,150.2	16.5	22.4	19.3	2.8	4.5	15.7	14.17	0.4	194.8	970	1,215
965	10	**RC96510D**	1,916.2	20.9	30.7	19.3	2.8	4.5	15.7	14.17	0.4	194.8	970	1,473
1220	2.0	**RC12202D**	485.1	13.0	15.0	21.7	3.1	5.3	17.7	14.17	0.4	246.5	1227	1,287
1220	6	**RC12206D**	1,455.8	17.3	23.2	21.7	3.1	5.3	17.7	14.17	0.4	246.5	1227	1,612
1220	10	**RC122010D**	2,452.2	21.7	31.5	21.7	3.1	5.3	17.7	14.17	0.4	246.5	1227	1,936

LOCKING COLLAR

RL Series– Aluminum

55 & 100 Ton Single- Acting, Spring-Return

Locking collar feature permits non-hydraulic support of load.

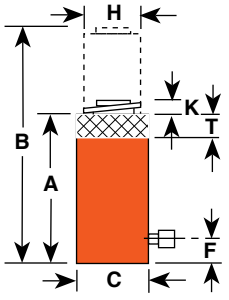
RA1006L

RA556L

ASME B30.1
10,000 PSI

POSITIVE MECHANICAL LOCK TO SUPPORT LOAD.

- Supports lifted load for extended periods of time with hydraulic pressure released.
- At half the weight of steel cylinders of comparable capacity, aluminum cylinders are ideal when portability is a key factor.
- Feature carrying handle.



Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Ht. (in.)	B Extended Ht. (in.)	C Outside Dia. (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	K Piston Rod Protrusion (in.)	T Nut Thickness (in.)	Bore Dia. (in.)	Cylinder Effective Area (sq. in.)	Internal Pressure at Cap. (psi)	Tons at 10,000 psi	Product Wt. (lbs.)
55	6 1/8	**RA556L**	67.6	12 1/2	18 5/8	5 1/4	1 3/8	3 1/4	1/2	1 1/2	3 3/4	11.04	9,960	55.2	29.6
100	6 1/4	**RA1006L**	129	13 3/8	19 5/8	7 3/8	1 3/16	4 1/2	1/4	1 1/2	5 1/8	20.62	9,696	103.1	64.0

Note: Supported loads not to exceed the rated capacity of the cylinders. Not intended to support additional dynamic loads, such as those applied by moving vehicles.

PANCAKE CYLINDERS

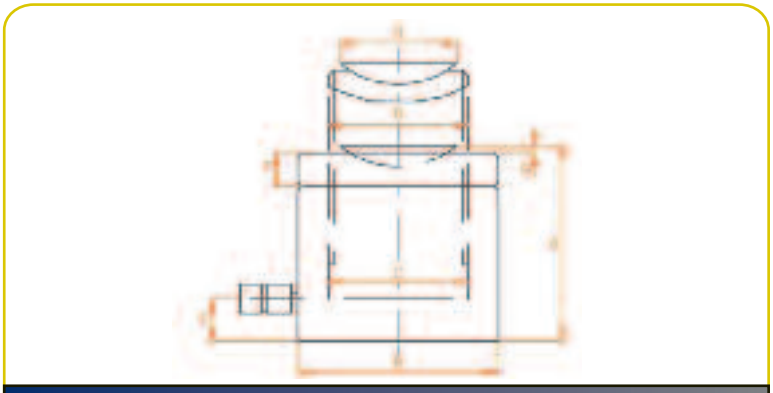
Locking Collar

RC Series 55 & 620 Ton

Single- Acting, Load-Return

POSITIVE MECHANICAL LOCK TO SUPPORT LOAD.

- Compact design - for use where space is limited.
- Locking collar designed to support lifted load for extended periods of time with hydraulic pressure released.
- Integral tilt saddle standard improves performance under side load.
- Overflow port ("weep hole") prevents piston from being overextended under load.
- Special coating improves corrosion and abrasion resistance.
- Cylinders come standard with hardened swivel caps reducing the effects of off-center loading Single-Acting Locking Collar Cylinders.
- Equipped with 3⁄8" NPTF female half couplers.



Cyl. Cap. (tons)	Stroke	Order No.	Oil Cap. (cm^3)	A Retracted Height (in.)	B Outside Dia. (in.)	C Piston Rod Dia. (in.)	D Bore Dia. (in.)	E Base to Port (in.)	F Nut Thickness (in.)	G Swivel Cap Protrusion (in.)	H Swivel Cap Dia. (in.)	Product Wt. (lbs.)
55	2	**RC0552P**	21.66	4.92	4.72	3.74	3.74	.75	.83	.24	3.62	24.25
100	1.75	**RC1002P**	36.43	5.39	6.5	5.12	5.12	.83	1.22	.31	4.96	48.50
155	1.75	**RC1552P**	55.23	5.83	8.07	6.30	6.30	1.06	1.50	.35	5.83	85.98
240	1.75	**RC2402P**	86.23	6.10	10.04	7.87	7.87	1.10	1.57	.39	6.18	130.07
380	1.75	**RC3802P**	134.74	7.01	12.60	9.84	9.84	1.38	1.97	.43	9.45	242.51
620	1.75	**RC6202P**	220.78	7.56	15.94	12.60	12.60	1.50	2.36	.39	11.61	425.49

LOCKING COLLAR

RL Series STEEL

55 -565 Ton

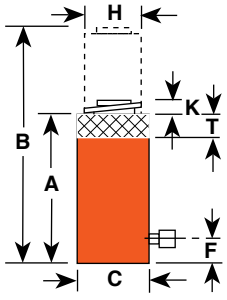
Single- Acting, Load-Return

CYLINDERS

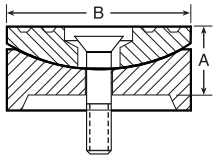
POSITIVE MECHANICAL LOCK TO SUPPORT LOAD.

- Supports lifted load for extended periods of time with hydraulic pressure released.
- Visible indicator band alerts when stroke limit is reached; overflow port ("weep hole") stroke limiter prevents piston from being overextended.
- All cylinders feature coated pistons to resist corrosion and abrasion.

Locking collar feature permits non-hydraulic support of load.



SWIVEL CAPS For use with "RL" cylinders
Reduce the effects of off center loading.
Tilts up to 5 degrees. Radial grooves on top of cap reduce load slippage.



A (in.)	B (in.)	Use with Cyl. No.	Swivel Cap Order No.	Wt. (lbs.)
1	$2^{13}/_{16}$	55-100 ton	**420866**	1.8
$1^1/_2$	$5^1/_8$	150-200 ton	**420867**	8.8
$1^3/_4$	$5^7/_8$	280 ton	**420868**	13.5
$2^3/_4$	$7^{11}/_{16}$	355 ton	**420869**	37
$3^1/_8$	$8^7/_8$	430 ton	**420870**	52
$3^5/_8$	$9^7/_8$	565 ton	**420871**	78

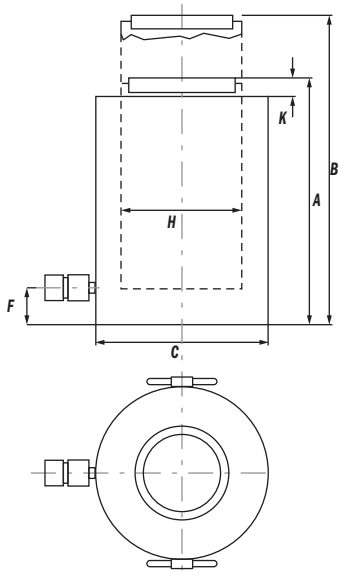
Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Ht. (in.)	B Extended Ht. (in.)	C Outside Dia. (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	K Piston Rod Protrusion (in.)	T Nut Thickness (in.)	Bore Dia. (in.)	Cylinder Effective Area (sq. in.)	Internal Pressure at Cap. (psi)	Tons at 10,000 psi	Product Wt. (lbs.
55	2	**R552L**	22.10	$6^3/_8$	$8^3/_8$	$4^{15}/_{16}$	1	$3^3/_4$	$^1/_8$	$1^7/_{16}$	$3^3/_4$	11.04	9,964	55.2	33.7
55	6	**R556L**	66.30	$10^3/_8$	$16^3/_8$	$4^{15}/_{16}$	1	$3^3/_4$	$^1/_8$	$1^7/_{16}$	$3^3/_4$	11.04	9,964	55.2	58.0
55	10	**R5510L**	110.40	$14^3/_8$	$24^3/_8$	$4^{15}/_{16}$	1	$3^3/_4$	$^1/_8$	$1^7/_{16}$	$3^3/_4$	11.04	9,964	55.2	80.0
100	2	**R1002L**	41.30	$7^1/_4$	$9^1/_4$	$6^1/_2$	1	$5^1/_8$	$^1/_8$	$1^3/_4$	$5^1/_8$	20.63	9,695	103.0	66.0
100	6	**R1006L**	123.80	$11^1/_4$	$17^1/_4$	$6^1/_2$	1	$5^1/_8$	$^1/_8$	$1^3/_4$	$5^1/_8$	20.63	9,695	103.0	103.0
100	10	**R10010L**	206.30	$15^1/_4$	$25^1/_4$	$6^1/_2$	1	$5^1/_8$	$^1/_8$	$1^3/_4$	$5^1/_8$	20.63	9,695	103.0	142.0
150	2	**R1502L**	61.40	$8^1/_8$	$10^1/_8$	$8^1/_{16}$	$1^1/_4$	$6^1/_4$	$^1/_8$	$1^3/_4$	$6^1/_4$	30.68	9,778	153.4	117.0
150	6	**R1506L**	184.10	$12^1/_8$	$18^1/_8$	$8^1/_{16}$	$1^1/_4$	$6^1/_4$	$^1/_8$	$1^3/_4$	$6^1/_4$	30.68	9,778	153.4	177.0
200	2	**R2002L**	82.60	$9^1/_2$	$11^1/_2$	$9^1/_4$	$1^5/_8$	$7^1/_4$	$^1/_8$	2	$7^1/_4$	41.28	9,690	206.4	183.0
200	6	**R2006L**	247.70	$13^1/_2$	$19^1/_2$	$9^1/_4$	$1^5/_8$	$7^1/_4$	$^1/_8$	2	$7^1/_4$	41.28	9,690	206.4	259.0
280	2	**R2802L**	113.50	$9^3/_4$	$11^3/_4$	$10^7/_8$	$1^5/_8$	$8^1/_2$	$^1/_8$	$2^1/_4$	$8^1/_2$	56.74	9,870	283.7	261.0
280	6	**R2806L**	340.40	$13^3/_4$	$19^3/_4$	$10^7/_8$	$1^5/_8$	$8^1/_2$	$^1/_8$	$2^1/_4$	$8^1/_2$	56.74	9,870	283.7	359.0
280	10	**R28010L**	567.40	$17^3/_4$	$27^3/_4$	$10^7/_8$	$1^5/_8$	$8^1/_2$	$^1/_8$	$2^1/_4$	$8^1/_2$	56.74	9,870	283.7	459.0
355	2	**R3552L**	141.80	$11^1/_2$	$13^1/_2$	$11^3/_4$	$2^1/_8$	$9^1/_2$	$^1/_8$	$2^3/_8$	$9^1/_2$	70.88	10,017	354.4	381.0
355	6	**R3556L**	425.30	$15^1/_2$	$21^1/_2$	$11^3/_4$	$2^1/_8$	$9^1/_2$	$^1/_8$	$2^3/_8$	$9^1/_2$	70.88	10,017	354.4	512.0
430	2	**R4302L**	173.20	$13^1/_8$	$15^1/_8$	13	$2^1/_2$	$10^1/_2$	$^1/_8$	$2^3/_4$	$10^1/_2$	86.59	9,932	433.0	556.0
430	6	**R4306L**	519.50	$17^1/_8$	$23^1/_8$	13	$2^1/_2$	$10^1/_2$	$^1/_8$	$2^3/_4$	$10^1/_2$	86.59	9,932	433.0	725.0
430	10	**R43010L**	865.90	$21^1/_8$	$31^1/_8$	13	$2^1/_2$	$10^1/_2$	$^1/_8$	$2^3/_4$	$10^1/_2$	86.59	9,932	433.0	894.0
565	2	**R5652L**	226.20	$14^5/_8$	$16^5/_8$	$14^7/_8$	$2^3/_4$	12	$^1/_8$	$3^1/_8$	12	113.10	9,991	565.5	811.0
565	6	**R5656L**	678.60	$18^5/_8$	$24^5/_8$	$14^7/_8$	$2^3/_4$	12	$^1/_8$	$3^1/_8$	12	113.10	9,991	565.5	1031.0
565	10	**R56510L**	1131.0	$22^5/_8$	$32^5/_8$	$14^7/_8$	$2^3/_4$	12	$^1/_8$	$3^1/_8$	12	113.10	9,991	565.5	1251.0

•**NOTE: Supported loads not to exceed the rated capacity of the cylinders. Not intended to support additional dynamic loads, such as those applied by moving vehicles.**

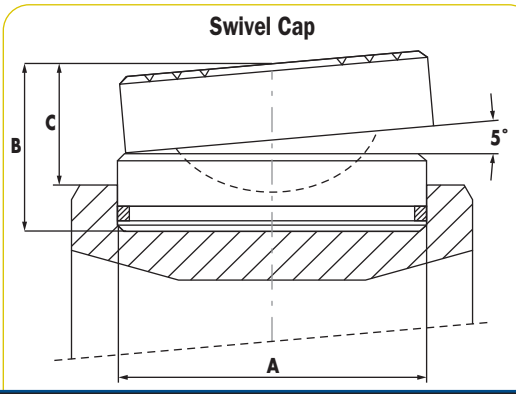
LOCKING COLLAR
RC SERIES
740 & 1220
Single-Acting, Load Return

POSITIVE MECHANICAL LOCK TO SUPPORT LOAD.

Single-Acting Locking Collar Cylinders



Swivel Cap



Order No.		A in.	B in.	C in.	Product Wt. lbs.
2000824	**RC740*L, RC965*L**	11.4	5.5	3.9	158.7
2000825	**RC1220*L**	12.7	6.9	4.9	249.1

Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (Cu. in.)	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	K Piston Rod Protrusion (in.)	Bore Dia. (in.)	Cyl. Effective Area (in.)	Tons @ 10,000 psi	Product Wt. (lbs)
740	2.0	**RC7402L**	293.6	15.6	17.6	18.7	3.5	TR13.8X6	0.2	13.8	149.1	742	1,202
740	6.0	**RC7406L**	880.7	19.5	25.4	18.7	3.5	TR13.8X6	0.2	13.8	149.1	742	1,506
740	10.0	**RC74010L**	1,467.8	23.4	33.2	18.7	3.5	TR13.8X6	0.2	13.8	149.1	742	1,810
965	2.0	**RC9652L**	383.2	17.9	19.9	21.3	3.9	TR15.7X6	0.2	15.7	194.8	970	1,574
962	6.0	**RC9656L**	1,150.2	21.9	27.8	21.3	3.9	TR15.7X6	0.2	15.7	194.8	970	2,183
962	10.0	**RC96510L**	1,916.2	25.8	35.6	21.3	3.9	TR15.7X6	0.2	15.7	194.8	970	2,579
1220	2.0	**RC12202L**	485.1	17.4	19.4	23.6	4.3	TR17.7X6	0.2	17.7	246.5	1227	2,136
1220	6.0	**RC12206L**	1,455.8	23.5	29.4	23.6	4.3	TR17.7X6	0.2	17.7	246.5	1227	2,888
1220	10.0	**RC122010L**	2,452.2	27.5	37.3	23.6	4.3	TR17.7X6	0.2	17.7	246.5	1227	3,373

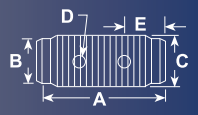
ACCESSORIES

C Series

Mounting accessories

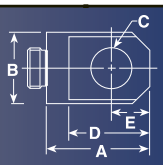
CYLINDERS

Threaded Connector



Cylinder Tons	Part No.	A	B	C	D	E
5	**25748**	$1\frac{3}{4}$	$\frac{7}{8}$ Dia.	$\frac{3}{4}$ — 14 NPSM	$\frac{3}{16}$ Dia.	$\frac{1}{2}$
10	**25664**	$1\frac{5}{8}$	$1\frac{7}{16}$ Dia.	$1\frac{1}{4}$ — $11\frac{1}{2}$ NPSM	$\frac{5}{16}$ Dia.	$\frac{9}{16}$
25	**25654**	$2\frac{1}{4}$	$2\frac{1}{8}$ Dia.	2 — $11\frac{1}{2}$ NPSM	$\frac{3}{8}$ Dia.	$\frac{5}{8}$

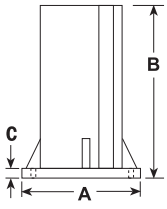
Piston Clevis



Cylinder Tons	Part No.	A	B	C	D	E	F
5	**350095**	$1\frac{3}{4}$	$1\frac{1}{8}$	$\frac{5}{8}$	$1\frac{7}{16}$	$\frac{5}{8}$	$\frac{3}{4}$-16
10 or 15*	**350094**	$2\frac{9}{16}$	$1\frac{11}{16}$	$\frac{7}{8}$	$2\frac{5}{16}$	1	1-8
25**	**420059**	$2\frac{15}{16}$	$2\frac{1}{4}$	$1\frac{1}{4}$	$2\frac{11}{16}$	$1\frac{1}{4}$	$1\frac{1}{2}$-16

* Can be used with RD106, RD1010 Cylinder.

** RD256 & RD2514

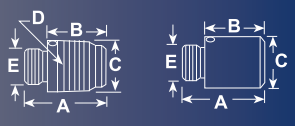


Support Base

Cylinder	Order	A	B	C
10	**420062**	7	5	$\frac{7}{16}$
25	**420063**	7	5	$\frac{7}{16}$

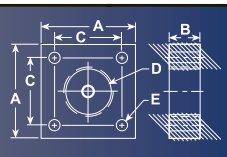
Threaded Adapter

Plain Adapter



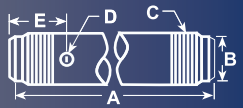
Cylinder Tons	Part No.	A	B	C	D	E
5	**202178** (threaded)	$1\frac{5}{8}$	$1\frac{1}{8}$	$1\frac{1}{16}$ Dia.	$\frac{3}{4}$ — 14 NPT	$\frac{3}{4}$ — 16 UNF-2A
10 or 15	**202179** (threaded)	$1\frac{13}{16}$	$1\frac{1}{16}$	$1\frac{5}{8}$ Dia.	$1\frac{1}{4}$ — $11\frac{1}{2}$ NPT	1 — 8 UNC-2A
25	**202180** (threaded)	$2\frac{3}{4}$	$1\frac{7}{8}$	$2\frac{3}{8}$ Dia.	2 — $11\frac{1}{2}$ NPT	$1\frac{1}{2}$ — 16 UN-2A
10 or 15	**350724** (plain)	2	$1\frac{1}{4}$	$1\frac{31}{64}$ Dia.	——	1 — 8 UNC-2A
25	**350723** (plain)	$2\frac{1}{8}$	$1\frac{1}{4}$	$2\frac{1}{4}$ Dia.	——	$1\frac{1}{2}$ — 16 UN-2A

Cylinder Mounting Plate



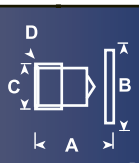
Cylinder Tons	Part No.	A	B	C	D	E
5	**350099**	3	1	$2\frac{1}{8}$	$1\frac{1}{2}$—16 UN-2B	$\frac{11}{32}$
10	**350100**	$3\frac{1}{2}$	1	$2\frac{5}{8}$	$2\frac{1}{4}$— 14 UNS-2B	$\frac{11}{32}$
15	**350184**	$3\frac{1}{2}$	1	$2\frac{5}{8}$	$2\frac{3}{4}$ — 16 UN-2B	$\frac{11}{32}$
25	**420064**	5	2	$3\frac{21}{32}$	$3\frac{5}{16}$ — 12 UN-2B	$\frac{21}{32}$

Extension Rod

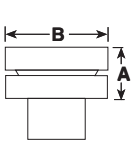


Cylinder Tons	Part No.	A	B	C	D	E
5	**350895**	5	7/8 Dia.	3/4 — 14 NPT	21/64 Dia.	2
5	**38908**	10	7/8 Dia.	3/4 — 14 NPT	21/64 Dia.	2
5	**350896**	18	7/8 Dia.	3/4 — 14 NPT	21/64 Dia.	2
10	**350897**	5	1 7/16 Dia.	1 1/4 — 11 1/2 NPT	21/64 Dia.	2
10	**38909**	10	1 7/16 Dia.	1 1/4 — 11 1/2 NPT	21/64 Dia.	2
10	**350898**	18	1 7/16 Dia.	1 1/4 — 11 1/2 NPT	21/64 Dia.	2

Cylinder Base Attachment



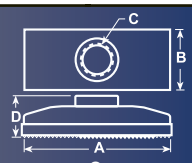
Cylinder Tons	Part No.	A	B	C	D
5	**208380**	1 5/8	1 3/4 Dia.	3/4 14 NPSM	9/32 Dia. (2) 1/4 —20 UNC x 3/4 Lg. Socket Head Cap Screws
10	**208381**	1 7/8	2 1/2 Dia.	1 1/4 — 11 1/2 NPSM	11/32 Dia. (2) 5/16—18 UNC x 3/4 Lg. Socket Head Cap Screws
25	**208382**	2 3/8	3 3/8 Dia.	2 — 11 1/2 NPSM	17/32 Dia. (2) 1/2— 13 UNC x 1 Lg. Socket Head Cap Screws



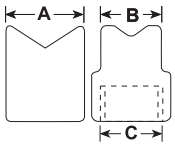
Swivel Cap

Cylinder Tons	Part No.	A	B
10 or 15	**350144**	7/8	1 3/8
25	**350145**	1 1/8	2
55 or 75	**350376**	1 1/4	2 13/16
100	**351574**	1 29/32	3 15/32

Cylinder Flat Base



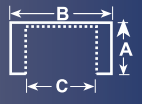
Cylinder Tons	Part No.	A	B	C	D
5	**25750** *	4 1/2	2 1/2	3/4 — 14 NPSM	1 11/32
10	**32325***	6 9/16	3 1/2	1 1/4—11 1/2 NPSM	1 7/16



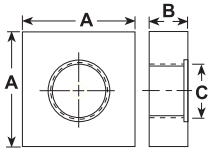
90° "V" Base

Cylinder Tons	Part No.	A	B	C
5	**25388***	1 3/8	1 1/16	3/4— 14 NPSM
10	**25395***	2 1/8	2 1/8	1 1/4— 11 1/2 NPSM

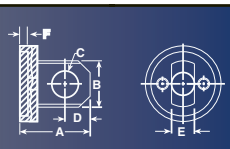
Smooth Saddle **Serrated Saddle**



Cylinder Tons	Part No.	A	B	C
5	**25746*** (serrated)	1 1/8	1 5/16 Dia.	3/4 — 14 NPSM
10 or 15	**31772*** (serrated)	1 1/8	2 Dia.	1 1/4— 11 ½ NPSM
25	**31776*** (serrated)	1 5/16	3 Dia.	2 — 11 1/2 NPSM
5	**351575*** (plain)	1 1/8	1 5/16 Dia.	3/4— 14 NPSM
10	**24016*** (plain)	1 1/8	2 Dia.	1 1/4 — 11 ½ NPSM
25	**351576*** (plain)	1 5/16	3 Dia.	2 — 11 ½ NPSM



Body Clevis†



Cylinder Tons	Part No.	A	B	C	D	E	F
5	**350096**	2 1/16	1 1/8	5/8	5/8	9/16	1/4
10	**350097**	3	1 11/16	7/8	1	1	1/4
15	**350098**	3 1/16	1 11/16	7/8	1	1	1/4
25	**420061**	3 9/16	2 1/4	1 1/4	1 1/4	1 1/2	1/4

Plunger Base

Cylinder Tons	Part No.	A	B	C
25	**25652**	6	1 1/4	2 — 11 1/2 NPSM

*** Items require threaded adapter (Page 36) when used with "C" series cylinders. They may be used on threaded "CBT" cylinders without the use of an adapter.**

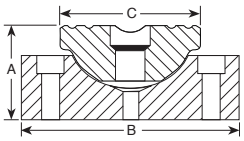
† Mounting screws are included.

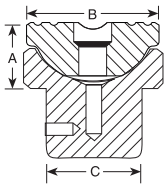
ACCESSORIES

Swivel Caps

Center Hole Accessories

CYLINDERS





SWIVEL CAPS FOR "RSS",

Use with Cyl. No.	Swivel Cap Order No.	Wt. (lbs.)	A (in.)	B (in.)	C (in.)
RSS101	**350320**	0.5	1	$1\frac{7}{16}$	$1\frac{7}{16}$
RSS202	**350321**	1.3	$1\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{1}{8}$
RSS302	**350322**	1.6	$1\frac{3}{8}$	$2\frac{1}{2}$	$2\frac{1}{8}$
RSS502	**350331**	2.7	$1\frac{7}{16}$	$3\frac{1}{4}$	$2\frac{1}{8}$
RSS1002	**350332**	6.6	$1\frac{13}{16}$	$4\frac{3}{8}$	$3\frac{3}{8}$
Tonnage	**"RA" CYLINDERS**				
55	**350376**	2	$1\frac{1}{4}$	$2\frac{13}{16}$	$2\frac{13}{16}$
100	**350984**	5.6	$1\frac{15}{16}$	$3\frac{1}{8}$	$3\frac{3}{4}$

SWIVEL CAPS FOR "RD" CYLINDERS

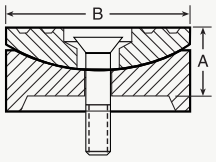
Cylinder Tonnage	Swivel Cap Order No.	Prod. Wt. (lbs.)	A (in.)	B (in.)	C (in.)
10	**350144**	0.8	$\frac{7}{8}$	$1\frac{7}{16}$	$\frac{55}{64}$
25	**350145**	1.3	$1\frac{1}{8}$	$2\frac{1}{8}$	$1\frac{7}{16}$
55	**351325**	4.2	$2\frac{7}{16}$	$2\frac{1}{2}$	$1\frac{35}{64}$
100	**351324**	11.2	$2\frac{61}{64}$	$3\frac{3}{4}$	$2\frac{21}{32}$
150	**351334**	12.8	$2\frac{5}{8}$	$4\frac{3}{8}$	$3\frac{1}{16}$

SWIVEL CAPS

Reduce the effects of off center loading. Tilts up to 5 degrees. Radial grooves on top of cap reduce load slippage.

For use with "RC" cylinders

Use with Cyl. No.	Swivel Cap Order No.	Wt. (lbs.)	A (in.)	B (in.)
150-200 ton	**420867**	8.8	$1\frac{1}{2}$	$5\frac{1}{8}$
280 ton	**420868**	13.5	$1\frac{3}{4}$	$5\frac{7}{8}$
355 ton	**420869**	37	$2\frac{3}{4}$	$7\frac{11}{16}$
430 ton	**420870**	52	$3\frac{1}{8}$	$8\frac{7}{8}$
565 ton	**420871**	78	$3\frac{5}{8}$	$9\frac{7}{8}$

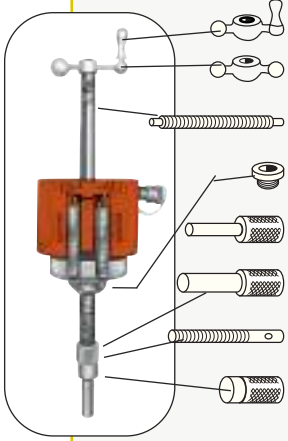


For use with "RL" cylinders

A (in.)	B (in.)	Use with Cyl. No.	Swivel Cap Order No.	Wt. (lbs.)
1	$2\frac{13}{16}$	55-100 ton	**420866**	1.8
$1\frac{1}{2}$	$5\frac{1}{8}$	150-200 ton	**420867**	8.8
$1\frac{3}{4}$	$5\frac{7}{8}$	280 ton	**420868**	13.5
$2\frac{3}{4}$	$7\frac{11}{16}$	355 ton	**420869**	37
$3\frac{1}{8}$	$8\frac{7}{8}$	430 ton	**420870**	52
$3\frac{5}{8}$	$9\frac{7}{8}$	565 ton	**420871**	78

Reduce the effects of off-center loading. Tilts up to 5 degrees. Radial grooves on top of cap reduce load slippage.
Notch across face of each cap helps keep loads having a protruding or round shaped centered.

"CENTER-HOLE" CYLINDER ACCESSORIES



	To use with Cyl No. / Order Set No.	RT172, RH203 RHA20	RT302, RH302 RH303, RH306 RHA30	RT503, RH503, RH603 RH605, RH606 RHA50	RT1004 RHA100
1 Speed Crank	1	**24814**	**27198**	**29595**	**303785**
2 Speed Nut	2	**302482** 1"–8 thd.	**302483** $1\frac{1}{4}$"–7 thd.	**33439** $1\frac{5}{8}$"–5 $\frac{1}{2}$ thd.	**34136** $2\frac{1}{2}$"–8 thd.
3 Adjusting Screw	3	**32118** 1"–8 thd. 20" lg.	**34758** $1\frac{1}{4}$"–7 thd. 24" lg.	**32698** $1\frac{5}{8}$"–5 $\frac{1}{2}$ thd. 30" lg.	**32699** $2\frac{1}{2}$"–8 thd. $34\frac{1}{4}$"lg.
4 Threaded Insert	4	Order threaded insert for RH series cylinders with the accessory set. (See page 39). Threaded insert supplied with RT series cylinders			
5 Pushing Adapter	5	**201923** 1"–8 thd. $\frac{1}{2}$" dia. shank	**34510** $1\frac{1}{4}$"–7 thd. $\frac{3}{4}$" dia. shank	**34755** $1\frac{5}{8}$"–5 $\frac{1}{2}$ thd. 1" dia. shank	—
Pushing Adapter	6	**201454** 1"–8 thd. $\frac{3}{4}$" 1" dia. shank	**34511** $1\frac{1}{4}$"–7 thd. 1" 1" dia. shank	**34756** $\frac{5}{8}$"–5 $\frac{1}{2}$ thd. $1\frac{1}{4}$" 1" dia. shank	—
Jack Screw	7	**24813** 1"–8 thd. 7" lg.	**25931** $1\frac{1}{4}$"–7 thd. 9" lg.	**32701** $1\frac{5}{8}$"–5 $\frac{1}{2}$ thd. 11" lg.	**32702** $2\frac{1}{2}$"–8 thd. 16" lg.
Screw Cap	8	**28228** 1"–8 thd. $1\frac{1}{2}$" dia.	**28229** $1\frac{1}{4}$"–7 thd. $1\frac{3}{4}$" dia.	**28230** $1\frac{5}{8}$"–5 $\frac{1}{2}$ thd. $2\frac{1}{4}$" dia.	—

Cylinder Order No.	Seal Kit*	Viton Seal Kit
C51C	300404	300210
C53C	300404	300210
C55C	300404	300210
C57C	300404	300210
C59C	300404	300210
C101C	300116	300211
C102C	300116	300211
C104C	300116	300211
C106C	300116	300211
C108C	300116	300211
C1010C	300116	300211
C1012C	300116	300211
C1014C	300116	300211
C1016C	300116	300211
C151C	300453	300471
C152C	300453	300471
C154C	300453	300471
C156C	300453	300471
C158C	300453	300471
C1510C	300453	300471
C1512C	300453	300471
C1514C	300453	300471
C1516C	300453	300471
C251C	300147	300213
C252C	300147	300213
C254C	300147	300213
C256C	300147	300213
C258C	300147	300213
C2510C	300147	300213
C2512C	300147	300213
C2514C	300147	300213
C552C	300114	300215
C554C	300114	300215
C556C	300114	300215
C5510C	300114	300215
C5513C	300114	300215
C756C	300647	300846
C7513C	300647	300846
C1002C	300112	300216
C1006C	300112	300216
C10010C	300112	300216
C55CBT	300404	300210
C106CBT	300116	300211
C1010CBT	300116	300211
C256CBT	300147	300213
C2514CBT	300147	300213
R1502C	300676	—
R1506C	300676	—
R15010C	300676	—
R2002C	300677	—
R2006C	300677	—

Cylinder Order No.	Seal Kit*	Viton Seal Kit
R20010C	300677	—
R2802C	300678	—
R2806C	300678	—
R28010C	300678	—
R3552C	300679	—
R3556C	300679	—
R35510C	300679	—
R4302C	300680	—
R4306C	300680	—
R43010C	300680	—
R5652C	300681	—
R5656C	300681	—
R56510C	300681	—
R1002D	300928	—
R1006D	300928	—
R10010D	300928	—
R1502D	300929	—
R1506D	300929	—
R15010D	300929	—
R2002D	300930	—
R2006D	300930	—
R20010D	300930	—
R2802D	300931	—
R2806D	300931	—
R28010D	300931	—
R3552D	300932	—
R3556D	300932	—
R35510D	300932	—
R4302D	301047	—
R4306D	301047	—
R43010D	301047	—
R5652D	300934	—
R5656D	300934	—
R56510D	300934	—
R552L	300674	—
R556L	300674	—
R5510L	300674	—
R1002L	300675	—
R1006L	300675	—
R10010L	300675	—
R1502L	300676	—
R1506L	300676	—
R15010L	300676	—
R2002L	300677	—
R2006L	300677	—
R20010L	300677	—
R2802L	300678	—
R2806L	300678	—
R28010L	300678	—
R3552L	300679	—
R3556L	300679	—

Cylinder Order No.	Seal Kit*	Viton Seal Kit
R35510L	300679	—
R4302L	300680	—
R4306L	300680	—
R43010L	300680	—
R5652L	300681	—
R5656L	300681	—
R56510L	300681	—
RA202	300631	—
RA204	300631	—
RA206	300631	—
RA302	300632	—
RA304	300632	—
RA306	300632	—
RA552	300391	—
RA554	300391	—
RA556	300391	—
RA5510	300391	—
RA1002	300444	—
RA1006	300444	—
RA556L	300395	—
RA1006L	300396	—
RD106	300017	—
RD1010	300017	—
RD256	300118	—
RD2514	300118	—
RD556	300005	—
RD5513	300005	—
RD5518	300005	—
RD8013	300410	—
RD1006	300006	—
RD10013	300006	—
RD10020	300006	—
RD1506	300007	—
RD15013	300007	—
RD15018	300007	—
RD2006	300008	—
RD20013	300008	—
RD3006	300466	—
RD30013	300466	—
RD4006	300467	—
RD40013	300467	—
RD5006	300468	—
RD50013	300468	—
RH102	300071	300221
RH108	300071	300221
RH120	300657	—

Cylinder Order No.	Seal Kit*	Viton Seal Kit
RH121	300576	—
RH121T	300576	—
RH123	300576	—
RH202	300615	—
RH203	300069	300222
RH206	300615	—
RH302	300037	300223
RH306	300037	300223
RH503	300059	300225
RH603	300477	300476
RH606	300477	300476
RH1003	300485	300585
RH303	300077	300224
RH306D	300822	300224
RH3010	300625	—
RH605	300269	300226
RH6010	300626	—
RH1001	300927	—
RH1006	300295	300227
RH10010	300629	—
RH1505	300154	300228
RH1508	300583	—
RH2008	300582	—
RHA306	300867	300868
RHA604D	300269	300226
RLS50	300454	—
RLS100	300455	—
RLS200	300456	—
RLS300	300457	—
RLS500S	300458	—
RLS750S	300459	—
RLS1000S	300460	—
RLS1500S	300461	—
RP25	300628	—
RP55	300627	—
RSS101	300010	—
RSS202	300011	—
RSS302	300297	—
RSS502	300292	—
RSS1002	300293	—
RSS2503	—	—
RSS1002D	300578	—
RT172	300358	—
RT302	300359	—
RT503	300360	—
RT1004	300024	—

ACCESSORIES

Cribbing Blocks

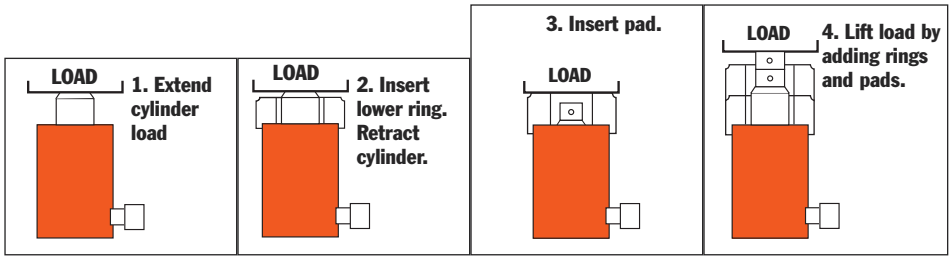
CYLINDERS

Convert Power Team "Shorty" cylinders to mechanical cribbing devices; more stable than timber or other awkward, makeshift methods. Ideal for lifting applications such as structure moving. Reduces cribbing time dramatically. In effect, increases the stroke of the cylinder; stacking pads act as cylinder extensions:

1. Extend cylinder and insert lower supporting ring.
2. Retract cylinder, insert a stacking pad.
3. Extend cylinder again; pad increases cylinder stroke.
4. Repeat process until all rings and pads are used.

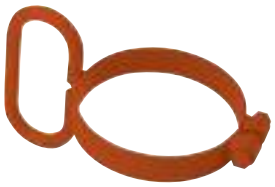
Each cribbing block set includes rings, pads and insertion handle.

No. CB30 — Cribbing block set for use with No. RSS302; 30 ton cylinder.
No. CB50 — Cribbing block set for use with No. RSS502; 50 ton cylinder.
No. CB100 — Cribbing block set for use with No. RSS1002; 100 ton cylinder.
No. 45589 — Insertion handle is used for inserting rings and pads.



FOR USE WITH → / ORDER NUMBER →	30 TON CYLINDER NO. RSS302 30 TON SET NO. CB30			50 TON CYLINDER NO. RSS502 50 TON SET NO. CB50			100 TON CYLINDER NO. RSS1002 100 TON SET NO. CB100		
	Lower Ring	Upper Ring	Stacking Pad	Lower Ring	Upper Ring	Stacking Pad	Lower Ring	Upper Ring	Stacking Pad
No. included in set	1	2	3	1	2	3	1	3	4
Outside Diameter (in.)	$4\frac{1}{2}$	$4\frac{1}{2}$	$2\frac{3}{4}$	$5\frac{1}{2}$	$5\frac{1}{2}$	$3\frac{3}{8}$	$7\frac{25}{64}$	$7\frac{25}{64}$	$4\frac{3}{4}$
Inside Diameter (in.)	$2\frac{13}{16}$	$2\frac{13}{16}$	—	$3\frac{29}{64}$	$3\frac{29}{64}$	—	$4\frac{13}{16}$	$4\frac{13}{16}$	
Height, each (in.)	$2\frac{9}{32}$	$1\frac{51}{64}$	$1\frac{25}{32}$	$2\frac{7}{32}$	$1\frac{23}{32}$	$1\frac{11}{16}$	$2\frac{1}{8}$	$1\frac{3}{4}$	$1\frac{23}{32}$
Total stacked height of rings in Set (in.)		$5\frac{7}{16}$			$5\frac{3}{16}$			$6\frac{7}{8}$	
Weight of Set (lbs.)		20			28			64	

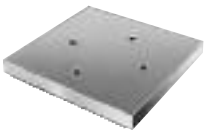
Each set includes one Insertion Handle No. 45589 - ½" Hex. x 18" Long, 4" Bend



CYLINDER LIFTING HANDLE

No. 4206550R9	—	Lifting handle for "C" series, 25 ton cylinders.
No. 4213120R9	—	Lifting handle for RH302, RH303, RH306 and RH306D, cylinders.
No. 252215	—	Lifting handle RHA306, 30 ton cylinder.
No. 420496BK2	—	Lifting handle RA552 and RA554, 55 ton cylinders.
No. 420498BK2	—	Lifting handle RA1002, 100 ton cylinder.

ALUMINUM CYLINDER BASE



Aluminum Cylinder Base – For use when an enlarged cylinder base is needed or advantageous. Attaches to bottom of RA556, RA556L and RA5510 with four 3/8"–16 screws (included). Serrated base for extra stability.

No. 208406 – Aluminum cylinder base, 7" square. For use with RA556, RA556L and RA5510 cylinders.

HEAD INSERTS FOR RH SERIES CYLINDERS

For Use With:	Threaded Insert Order No.
RH102, RH108	28632 3/4"–16
RH203	28612 1"–8
RH302, RH306	38904 1 1/4"–7
RH303	28644 1 1/4"–7
RH503	38855 1 5/8"–5 1/2
RH603, RH605 RH606	34251 1 5/8"–5 1/2

Quick-Change Inserts

"QUICK CHANGE" HEAD INSERTS FOR RT SERIES CYLINDERS

For Use With:	Threaded Order No.*	Plain Order No.
RT172	21669	21714
RT302	21873	21872
RT503	22274	22275
RT1004	24197	24196

Switch from a tapped hole to a plain hole quickly with these cylinder head inserts. They are held in place with a socket screw. Plain hole permits use of a speed nut for readjusting cylinder after extension.

*** Provided with cylinder**