

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 700 to 2400 bar. Cylinders with gland nuts may be “dead-ended” at 700 bar.

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	18	Single/Spring		X	X		X			X		
CBT	Threaded End Cylinders	18	Single/Spring		X	X					X		
RA	Aluminum Cylinders	19	Single/Spring							X		X	
RLS	Low Profile Cylinders	20	Single/Spring		X	X				X		X	X
RSS	Shorty Cylinders	21	Single/Spring/Double Act			X				X		X	X
RH	Center Hole Cylinders	22	Single/Spring/Double Act			X	X			X		X	X
RT	Center Hole Power Twin Cylinders	24	Single/Spring/Double Act						X			X	X
RP	Pull Cylinders	25	Single/Spring	X	X								
RD	Double Acting Cylinders	26	Double Acting			X					X		
R	High Tonnage Cylinder	28, 30	Single Acting/Load Return/ Double Acting										
RL	Locking Collar Cylinders	32, 34-35	Single Acting/Load Return										
RC	Pancake Cylinders	33	Single Acting/Load Return										

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**SELECTION
CHART... 12**

Choose the right Cylinder

Chart - Choose the right Cylinder

Type	Mount	Color	Stroke	SA	SA
Return	Body	Head	Thread	Size	Stroke
Mini	High	✓	RP25	1/2"	1"
Mini	High	✓	RP35	3/4"	1 1/2"
Mini	High	✓	CP45	1"	2"
Mini	High	✓	CP50	1 1/4"	2 1/2"

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RSS SERIES...21
Shorty Cylinders



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C SERIES...16
General Purpose Cylinders



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RH SERIES...22
Center Hole Cylinders



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CBT SERIES... 18
Threaded End Cylinders



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RT SERIES...24
Center Hole Power-twin[®] Cylinders



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RA SERIES...19
Aluminum Cylinders



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RP SERIES...25
Pull Cylinders



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RLS SERIES...20
Low Profile Cylinders



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RD SERIES...26
Double-Acting, Hydraulic-Return



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R SERIES...28, 30
Single Acting, Load Return
Double-Acting, Hydraulic Return



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RL ALUMINUM ...32
Locking Collar Aluminum



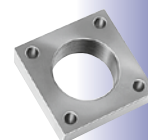
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RC SERIES...33
Pancake Cylinders



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RL STEEL...34
Locking Collar Steel



Page
ACCESSORIES ...36-41



		T O N N A G E															740 10
		55	60	75	80	100	150	200	250	280	300	355	400	430	500	565	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 CYLINDERS C SERIES

5-100 TONS
General Purpose, Single
Acting, Spring-Return

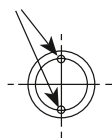
Rugged, high quality cylinder
used for lifting and pressing

CYLINDERS

RUGGED, HIGH QUALITY CYLINDER USED FOR LIFTING AND PRESSING

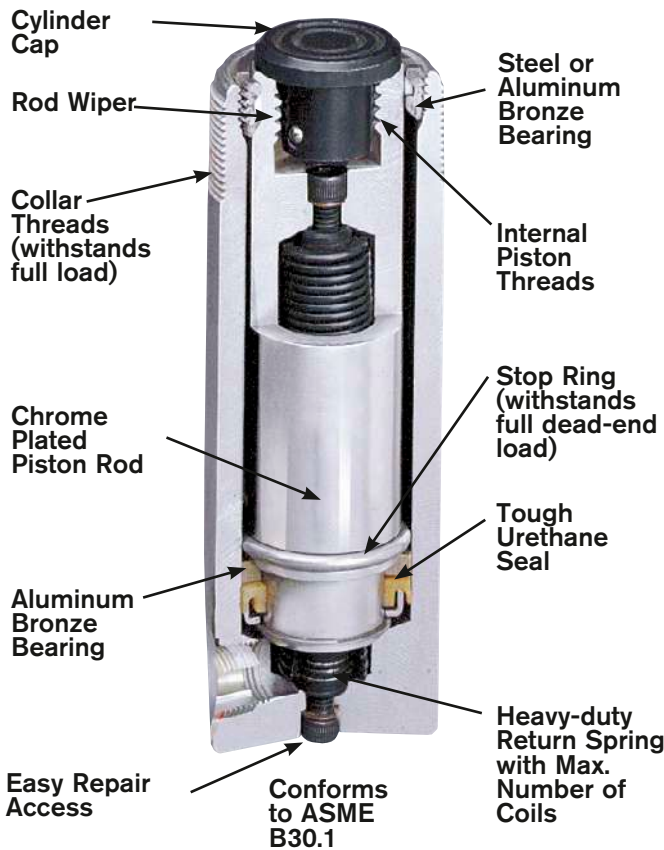
- Aluminum bronze bearing reduces wear caused by off-center loads.
- Maximum sized springs speed piston return and increase spring life.
- Solid steel cylinder body for durability.
- Chrome plated piston rod resists wear and corrosion.
- Wide range of accessories available to thread onto piston rod, 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.

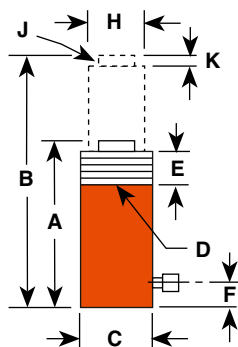
BASE MOUNTING HOLES



Cylinder Tonnage	No. Holes	Thread Size	Thread Depth	Bolt Circle Diameter (mm)
5	2†	1/4-20	9.5	25.4
10		5/16-18	12.7	39.7
15		3/8-16		47.6
25		1/2-13	19.1	58.7
55				95.3
*Optional 75	4	3/4-10	25.4	114.3
*Optional 100		1-8		120.7

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





Base mounting
holes
page 233.



			A	B	C	D	E	F	H	J	K	Metric				
Cyl	CapStroke	Order	Oil	Re-tracted	Ex-tended	Outside	Collar	Piston	Base	Piston	Piston Rod	Rod	Bore	Cylinder	Metric	
Cap	(mm)	No.	Cap.	Height	Height	Dia.	Thread	Collar	to	Rod	Int. Thread	Protru-	Dia.	Effective	Tons	
Tons			(cm³)	(mm)	(mm)	(mm)	(in.)	Thread	Port	Dia.	and Depth	sion	(mm)	Area	at	Weight
								Length	(mm)	(mm)	(mm)	(mm)	(mm)	(cm²)	700	(kg)
								(mm)			(mm)	(mm)			(bar)	
5	25,4	C51C	18	110,3	138,1	38,1	1 1/2-16	28,6	19,1	25,4	3/4-16 x 15,9	6,4	28,6	6,4	4,5	1,0
	82,6	C53C	52	165,1	247,7	38,1	1 1/2-16	28,6	19,1	25,4	3/4-16 x 15,9	6,4	28,6	6,4	4,5	1,5
	133,4	C55C	85	215,9	349,3	38,1	1 1/2-16	28,6	19,1	25,4	3/4-16 x 15,9	6,4	28,6	6,4	4,5	1,8
	184,2	C57C	118	273,1	457,2	38,1	1 1/2-16	28,6	19,1	25,4	3/4-16 x 15,9	6,4	28,6	6,4	4,5	2,3
	235,0	C59C	151	323,9	558,8	38,1	1 1/2-16	28,6	19,1	25,4	3/4-16 x 15,9	6,4	28,6	6,4	4,5	2,6
10	25,4	C101C	36	92,1	117,5	57,2	2 1/4-14	28,6	19,1	38,1	1-8 x 19,1	6,4	42,8	14,4	10,2	1,8
	50,8	C102C	79	122,0	172,8	57,2	2 1/4-14	28,6	19,1	38,1	1-8 x 19,1	6,4	42,8	14,4	10,2	2,3
	104,8	C104C	151	171,5	276,2	57,2	2 1/4-14	28,6	19,1	38,1	1-8 x 19,1	6,4	42,8	14,4	10,2	3,0
	155,6	C106C	225	247,7	403,2	57,2	2 1/4-14	28,6	19,1	38,1	1-8 x 19,1	6,4	42,8	14,4	10,2	4,3
	206,4	C108C	362	298,5	504,8	57,2	2 1/4-14	28,6	19,1	38,1	1-8 x 19,1	6,4	42,8	14,4	10,2	5,0
	257,2	C1010C	370	349,3	606,4	57,2	2 1/4-14	28,6	19,1	38,1	1-8 x 19,1	6,4	42,8	14,4	10,2	5,9
	308,0	C1012C	444	400,1	708,0	57,2	2 1/4-14	28,6	19,1	38,1	1-8 x 19,1	6,4	42,8	14,4	10,2	6,6
	358,8	C1014C	518	450,9	809,6	57,2	2 1/4-14	28,6	19,1	38,1	1-8 x 19,1	6,4	42,8	14,4	10,2	7,3
	406,4	C1016C	592	520,7	927,1	57,2	2 1/4-14	28,6	19,1	38,1	1-8 x 19,1	6,4	42,8	14,4	10,2	8,4
	25,4	C151C	51	123,8	149,2	69,9	2 3/4-16	28,6	19,1	44,5	1-8 x 19,1	6,4	50,8	20,3	14,2	3,4
15	54,0	C152C	110	149,2	203,2	69,9	2 3/4-16	28,6	19,1	44,5	1-8 x 19,1	6,4	50,8	20,3	14,2	4,0
	104,8	C154C	211	200,0	304,8	69,9	2 3/4-16	28,6	19,1	44,5	1-8 x 19,1	6,4	50,8	20,3	14,2	5,2
	155,6	C156C	315	271,4	427,0	69,9	2 3/4-16	28,6	19,1	44,5	1-8 x 19,1	6,4	50,8	20,3	14,2	6,9
	206,4	C158C	418	322,2	528,6	69,9	2 3/4-16	28,6	19,1	44,5	1-8 x 19,1	6,4	50,8	20,3	14,2	8,1
	257,2	C1510C	521	373,0	630,2	69,9	2 3/4-16	28,6	19,1	44,5	1-8 x 19,1	6,4	50,8	20,3	14,2	9,4
	308,0	C1512C	625	423,8	731,8	69,9	2 3/4-16	28,6	19,1	44,5	1-8 x 19,1	6,4	50,8	20,3	14,2	10,5
	358,8	C1514C	728	474,6	833,4	69,9	2 3/4-16	28,6	19,1	44,5	1-8 x 19,1	6,4	50,8	20,3	14,2	11,8
	406,4	C1516C	824	522,3	928,7	69,9	2 3/4-16	28,6	19,1	44,5	1-8 x 19,1	6,4	50,8	20,3	14,2	12,8
	25,4	C251C	84	139,7	165,1	85,7	3 5/16-12	49,2	25,4	57,2	1 1/2-16 x 25,4	9,5	65,1	33,2	23,4	5,4
	50,8	C252C	169	164,5	215,3	85,7	3 5/16-12	49,2	25,4	57,2	1 1/2-16 x 25,4	9,5	65,1	33,2	23,4	6,3
25	101,6	C254C	338	215,9	317,5	85,7	3 5/16-12	49,2	25,4	57,2	1 1/2-16 x 25,4	9,5	65,1	33,2	23,4	8,0
	158,8	C256C	528	273,1	431,8	85,7	3 5/16-12	49,2	25,4	57,2	1 1/2-16 x 25,4	9,5	65,1	33,2	23,4	9,8
	209,6	C258C	697	323,9	533,4	85,7	3 5/16-12	49,2	25,4	57,2	1 1/2-16 x 25,4	9,5	65,1	33,2	23,4	11,6
	260,4	C2510C	865	374,4	635,0	85,7	3 5/16-12	49,2	25,4	57,2	1 1/2-16 x 25,4	9,5	65,1	33,2	23,4	13,3
	311,2	C2512C	1.036	425,5	736,0	85,7	3 5/16-12	49,2	25,4	57,2	1 1/2-16 x 25,4	9,5	65,1	33,2	23,4	15,0
	362,0	C2514C	1.205	476,3	838,2	85,7	3 5/16-12	49,2	25,4	57,2	1 1/2-16 x 25,4	9,5	65,1	33,2	23,4	16,7
55	50,8	C552C	362	174,6	225,4	127,0	5-12	55,6	34,9	79,4	-	3,2	95,3	71,2	50,1	14,7
	108,0	C554C	769	231,8	339,7	127,0	5-12	55,6	34,9	79,4	-	3,2	95,3	71,2	50,1	18,7
	158,8	C556C	1.131	282,6	441,3	127,0	5-12	55,6	34,9	79,4	-	3,2	95,3	71,2	50,1	23,1
	260,4	C5510C	1.853	384,2	644,5	127,0	5-12	55,6	34,9	79,4	-	3,2	95,3	71,2	50,1	30,4
	336,6	C5513C	2.398	460,4	796,9	127,0	5-12	55,6	34,9	79,4	-	3,2	95,3	71,2	50,1	35,3
75	155,6	C756C	1.596	314,3	469,9	146,1	5 3/4-12	44,5	31,8	95,3	-	3,2	114,3	102,6	72,1	33,3
	333,4	C7513C	3.421	492,1	825,5	146,1	5 3/4-12	44,5	31,8	95,3	-	3,2	114,3	102,6	72,1	49,6
100	50,8	C1002C	675	219,1	269,9	158,8	6 1/4-12	57,2	41,3	104,8	-	3,2	130,2	133,0	93,6	28,5
	168,3	C1006C	2.245	336,6	504,8	158,8	6 1/4-12	57,2	41,3	104,8	-	3,2	130,2	133,0	93,6	41,2
	260,4	C10010C	3.467	428,6	689,0	158,8	6 1/4-12	57,2	41,3	104,8	-	3,2	130,2	133,0	93,6	51,2

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ACCESSORY/REPAIR

PUMP/CYLINDER SETS

HYDRAULIC ACCESSORIES

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Threaded End CYLINDERS CBT SERIES

5-25 TONS
Single Acting,
Spring-Return

Threaded piston rod end and base threads accommodate accessories and adapters.

CYLINDERS

- 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.

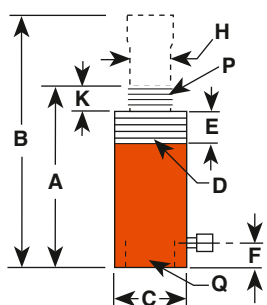
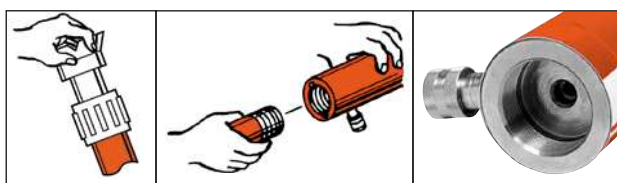
C55CBT



C2514CBT



ASME B30.1
700 BAR



Cyl. Cap. (tons)	Stroke (mm)	Order No.	Oil Cap. (cm³)	A Re-tracted Height (mm)	B Ex-tended Height (mm)	C Outside Dia. (mm)	D Collar Thread (in.)	E Collar Thread Length (mm)	F Base to Port (mm)	H Piston Rod Dia. (in.)	K Piston Rod Protrusion (mm)	P Piston Rod Thread (NPT)	Q Internal Base Thread (NPSM) (in.)	Bore Dia. (mm)	Cyl. Eff. Area (cm²)	Metric Tons at 700 bar	Weight (kg)
5	133,4	C55CBT	85	266,7	400,1	38,1	1 1/2-16	28,6	47,6	25,4	28,6	3/4-14	3/4-14	28,6	6,4	4,5	2,0
	155,6	C106CBT	228	292,1	447,7	57,2	2 1/4-14	28,6	42,9	38,1	27,0	1 1/4-11 1/2	1 1/4-11 1/2	27,0	14,4	10,2	4,7
10	257,2	C1010CBT	375	393,7	650,9	57,2	2 1/4-14	28,6	42,9	38,1	27,0	1 1/4-11 1/2	1 1/4-11 1/2	27,0	14,4	10,2	6,3
	158,8	C256CBT	528	339,7	498,5	85,7	3 5/16-12	49,2	47,6	57,2	47,6	2-11 1/2	2-11 1/2	47,6	33,3	23,4	11,1
25	362,0	C2514CBT	1205	542,9	904,9	85,7	3 5/16-12	49,2	47,6	57,2	47,6	2-11 1/2	2-11 1/2	47,6	33,3	23,4	18,2

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- Half the weight of 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



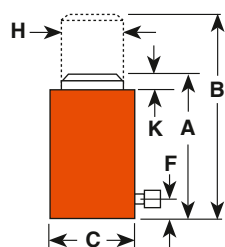
ASME B30.1
700 BAR

ALUMINUM CYLINDERS RA-SERIES

20-200 TONS
Single Acting,
Spring-Return

Half the weight of equal capacity steel cylinders.

CYLINDERS



Base Mtg. Holes (4) at
45° from coupler (RA556,
RA5510) 3/8"-16 x
114,3mm Dia. B.C.
Depth = 12,7 mm

RA1006



Cyl. Cap. Stroke (tons) (mm)	Order No.	Oil Cap. (cm³)	A Retracted Ht. (mm)	B Extended Ht. (mm)	C Outside Dia. (mm)	F Base to Port (mm)	H Piston Rod Dia. (mm)	K Piston Rod Protrusion (mm)	Bore Dia. (mm)	Cylinder Effective Area (cm²)	Metric Tons at 700 bar	Weight. (kg)
20	54,0 RA202	154	161,9	215,9	95,3	31,8	50,8	7,9	60,3	28,6	20,1	3,5
	104,8 RA204	300	212,7	317,5	95,3	31,8	50,8	7,9	60,3	28,6	20,1	4,2
	155,6 RA206	445	263,5	419,1	95,3	31,8	50,8	7,9	60,3	28,6	20,1	5,1
30	54,0 RA302	226	187,3	241,3	108,0	31,8	63,5	9,5	73,0	41,9	29,4	5,0
	104,8 RA304	439	238,1	342,9	108,0	31,8	63,5	9,5	73,0	41,9	29,4	5,9
	155,6 RA306	652	288,9	444,5	108,0	31,8	63,5	9,5	73,0	41,9	29,4	6,8
55	54,0 RA552	386	171,5	225,4	133,4	34,9	79,4	6,4	95,3	71,2	50,1	7,3
	104,8 RA554	746	222,3	327,0	133,4	34,9	79,4	6,4	95,3	71,2	50,1	8,9
	155,6 RA556*	1.109	273,1	428,6	133,4	34,9	79,4	6,4	95,3	71,2	50,1	10,9
100	254,0 RA5510*	1.811	384,2	638,2	133,4	34,9	79,4	6,4	95,3	71,2	50,1	14,4
	54,0 RA1002	718	196,9	250,8	187,3	30,2	104,8	3,2	130,2	133,0	93,5	15,1
	158,8 RA1006*	2.116	298,5	457,2	187,3	30,2	104,8	3,2	130,2	133,0	93,5	22,6

* Equipped with carrying handles.

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Low profile CYLINDERS RLS SERIES

5-150 Ton
Single-Acting,
Spring-Return

Ideal for confined areas from
41 to 101,6 mm clearance.

CYLINDERS



- 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 $\frac{3}{8}$ " NPTF female half coupler is standard with each cylinder (the RLS50 has a $\frac{3}{8}$ " coupler which is not angled). Oil ports are $\frac{3}{8}$ " NPTF (except the RLS50).
- Couplers on all cylinders, except RLS50, are angled upward for extra clearance.

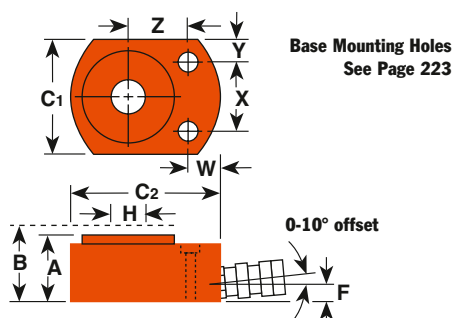


RLS100



RLS1000S

ASME B30.1
700 BAR



Cyl. Cap. (tons)	Stroke (mm)	Order No.	Oil Cap. (cm ³)	A Re-tracted Height (mm)	B Ex-tended Height (mm)	C1 & C2 Outside Dia. (mm)	F Base to Port (mm)	H Piston Rod Dia. (mm)	W Mounting Hole Location (mm)	X	Y	Z	Bore Dia. (mm)	Cyl. Eff. Area (cm ²)	Metric Tons at 700 bar	Weight (kg)
5	14,3	RLS50	10	41,3	55,6	41,3x65,1	19,1	15,9	19,1	28,6	6,4	25,4	28,6	6,4	4,5	1,0
10	11,1	RLS100	17	44,5	55,6	55,6x82,6	15,9	19,1	17,5	36,5	9,5	33,3	42,9	14,4	10,1	1,5
20	11,1	RLS200	33	50,8	61,9	76,2x101,6	16,7	28,6	18,3	49,2	13,5	39,7	60,3	28,6	20,1	2,5
30	12,7	RLS300	53	58,7	71,4	95,3x114,3	18,3	34,9	20,6	52,4	21,4	44,5	73,0	41,9	29,5	3,9
50	15,9	RLS500S	99	66,7	82,6	114,3x139,7	21,4	44,5	23,8	66,7	23,8	54,0	88,9	62,1	43,6	6,3
75	15,9	RLS750S	163	79,4	95,3	140,5x165,1	25,4	54,0	23,8	76,2	32,1	65,9	114,3	102,6	72,2	10,6
100	15,9	RLS1000S	202	85,7	101,6	152,4x177,8	25,4	63,5	20,6	76,2	38,1	71,4	127,0	126,6	89,1	13,6
150	14,3	RLS1500S	282	101,6	115,9	190,5x215,9	33,3	76,2	33,3	117,5	36,5	79,4	158,8	197,9	139,2	23,6





Shorty CYLINDERS RSS SERIES

10-250 Ton
Single-Acting, Spring-
Return & Double-Acting

Ideal for confined areas
from 89 to 290,5 mm clearance.

CYLINDERS

- 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

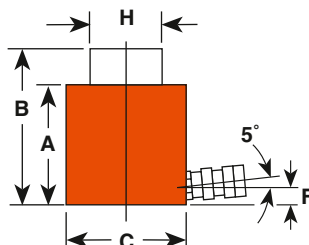


RSS302

ASME B30.1
700 BAR



Cribbing blocks are shown in a 30 ton RSS302 “Shorty” cylinder. For more information see pg 40.



Cyl Capacity (Tons)	Stroke (mm)	Order No.	Oil Cap. (cm ³)		A	B	C	F	H	Bore Dia. (mm)	Cylinder Effective Area (cm ²)	Metric Tons at 700 (bar)	Weight (kg)
			Push	Return	Retracted Height (mm)	Extended Height (mm)	Outside Dia. (mm)	Base to Port (mm)	Piston Rod Dia. (mm)				
10	38,1	RSS101	56	–	88,9	127,0	69,9	15,9	38,1	42,9	14,4	10,2	2,7
20	44,5	RSS202	126	–	95,3	139,7	90,5	15,9	54,8	60,3	28,6	20,0	4,5
30	61,9	RSS302	259	–	117,5	179,4	101,6	15,9	63,5	73,0	41,9	29,5	6,7
50	60,3	RSS502	374	–	127,0	187,3	123,8	19,1	79,4	88,9	62,0	43,6	10,5
100	57,2	RSS1002	725	–	139,7	196,9	168,3	23,8	111,1	127,0	126,6	89,1	21,4
100	38,1	RSS1002D	482	212	144,5	182,6	174,6	23,8 *	95,3	127,0	126,6	89,1	24,7
250	76,2	RSS2503	2.469	–	290,5	366,7	250,8	46,0	139,7	203,2	323,9	227,8	99,7

*Cylinder top to port is 40 mm

See pages 30-35 & 110-123 for hydraulic accessories.





Center Hole CYLINDERS RH SERIES

10-100 Ton Single-Acting, Spring-Return

Ideal for pulling and tensioning of cables, anchor bolts, forcing screws, etc.

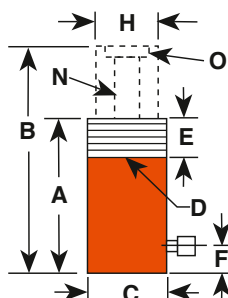
- Interchangeable piston head inserts (see page 41) provide versatility of application.
- 12, 20*, 30*, 50, 60 Ton Single-Acting Models Feature Threaded Collar
- Withstands full “dead-end” loads.
- Corrosion resistant standpipe has “Power Tech” treatment.
- All cylinders except RH120 are furnished with 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
700 BAR

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



Cyl. Cap. (tons)	Stroke (mm)	Order No.	Oil Cap. (cm³)	A Re- tracted Height (mm)	B Ex- tended Height (mm)	C Outside Dia. (mm)	D Collar Thread (in.)	E Collar Thread Length (mm)	F Base to Port (mm)	H Piston Rod Dia. (mm)	N Center Hole Dia. (mm)	O Insert Thread and Size (in.)	Mount. Holes Bolt Circle	Cylinder Effective Area (cm²)	Metric Tons at 700 bar	Weight (kg)
10	63,5	RH102	91	134,9	198,4	76,2	-	-	25,4	52,4	19,4	1 3/4-12	1/4-20 x 60,3	14,3	10,0	4,1
10	203,2	RH108	290	287,3	490,5	76,2	-	-	25,4	52,4	19,4	1 3/4-12	1/4-20 x 60,3	14,3	10,0	8,5
12	7,9	RH120**	14	55,6	63,5	69,9	2 3/4-16	31,8	9,5	34,9	17,5	3/4-16	5/16-18 x 50,8	17,8	12,5	1,4
12	41,3	RH121	74	122,2	163,5	69,9	2 3/4-16	31,8	25,4	34,9	20,2	-		17,8	12,5	3,0
12	41,3	RH121T**	74	122,2	163,5	69,9	2 3/4-16	31,8	25,4	34,9	17,5	3/4-16	5/16-18 x 50,8	17,8	12,5	3,0
12	76,2	RH123	136	184,2	260,4	69,9	2 3/4-16	20,6	25,4	34,9	20,6	-		17,8	12,5	4,0
20	50,8	RH202	155	155,6	206,4	98,4	3 7/8-12	38,1	25,4	54,0	27,4	1 9/16-16	3/8-16 x 82,6	30,4	21,4	7,3
20	76,2	RH203	193	154,0	230,2	101,6	-	-	25,4	69,9	26,6	2 1/4-12	3/8-16 x 82,6	25,3	17,8	9,1
20	152,4	RH206	465	308,0	460,4	98,4	3 7/8-12	38,1	25,4	54,0	27,4	1 9/16-16	3/8-16 x 82,6	30,4	21,4	13,7
30	63,5	RH302	260	158,8	222,3	120,7	4 3/4-12	38,1	29,4	82,6	32,9	2 3/4-12	7/16-20 x 92,1	40,9	28,8	11,6
30	149,2	RHA306	625	283,4	432,6	130,2	-	-	31,8	82,6	32,5	2 5/8-8	7/16-20 x 92,1	40,9	28,8	9,9
30	152,4	RH306	625	247,7	400,1	120,7	4 3/4-12	38,1	29,4	82,6	32,5	2 3/4-12		40,9	28,8	17,7
50	76,2	RH503	534	181,0	257,2	152,4	6-12	50,8	31,8	104,8	42,5	3 1/4-12	5/8-18 x 120,7	70,0	49,3	21,2
60	76,2	RH603*	607	235,0	311,2	158,8	6 1/4-12	63,5	25,4	91,3	54,0	3-12	1/2-13 x 130,2	79,4	55,9	27,2
60	152,4	RH606*	1.211	311,2	463,6	158,8	6 1/4-12	63,5	25,4	91,3	54,0	3-12	1/2-13 x 130,2	79,4	55,9	35,4
100	76,2	RH1003*	1.014	254,0	330,2	212,7	-	-	31,8	127,0	79,4	4 1/8-12		133,0	93,5	52,2

*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.



Center Hole CYLINDERS RH SERIES

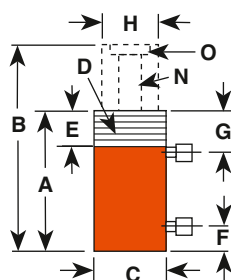
30-200 Ton
Double-Acting

Ideal for pulling and
tensioning of cables, anchor
bolts, forcing screws.

- Interchangeable piston head inserts (see page 41) 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
700 BAR



CYLINDERS

				A B C D E F G H N O																	
Cyl. Cap. (tons)	Stroke (mm)	Order No.	Oil Cap. (cm³)		A Re- tracted Height (mm)	B Ex- tended Height (mm)	C Dia. (mm)	D Collar Thread (in.)	E Thread Length (mm)	F Base to Port (mm)	G Cylinder Top to Port (mm)	H Piston Rod Dia. (mm)	N Center Hole Dia. (mm)	O Insert Thread Size (in.)	Mounting Holes (in.) and Bolt Circle (mm)	Cylinder Effective Area (cm²)		Metric Tons at 700 bar		Weight (kg)	
			Push	Pull												Push	Pull	Push	Pull		Push
30	15	76,2	RH303	289	167	179,4	255,6	120,7	-	-	25,4	41,3	63,5	32,5	2-12	3/8-16 x 92,1	38,0	21,8	26,8	15,3	13,5
30	15	152,4	RH306D	580	333	281,0	433,4	120,7	-	-	25,4	41,3	63,5	32,5	2-12	7/16-20 x 92,1	38,0	21,8	26,8	15,3	20,4
30	20	257,2	RH3010	1.082	672	438,2	695,3	114,3	4 1/2-12	41	44,5	81,0	60,3	33,3	1 7/8-16	-	42,2	26,1	29,7	18,3	27,7
60	25	101,6	RH604D	807	338	241,3	342,9	177,8	-	-	39,7	57,2	101,6	54,0	3-12	1 1/2-13 x 130,2	79,4	33,2	55,8	25,1	16,2
60	25	127,0	RH605*	1.009	423	241,3	368,3	165,9	-	-	25,4	44,5	101,6	54,0	3-12	1 1/2-13 x 130,2	79,4	33,2	55,8	25,1	33,1
60	40	257,2	RH6010*	2.181	1.427	458,8	716,0	158,8	6 1/4-12	47,6	54,0	81,8	92,1	54,4	3-16	-	84,8	55,4	59,6	38,9	54,5
100	45	38,1	RH1001*	526	233	165,1	203,2	212,7	-	-	31,8	58,7	127,0	79,8	4-16	5/8-11 x 177,8	138,0	60,8	97,0	42,7	38,6
100	50	152,4	RH1006*	1.971	1.076	314,3	466,7	184,2	-	-	37,3	59,1	111,1	52,4	-	1 1/2-13 x 139,7	129,2	70,5	90,8	49,6	43,1
100	45	257,2	RH10010*	3.552	1.556	495,3	752,5	215,9	8 1/2-12	57	63,5	91,7	139,7	79,8	4 1/2-12	-	138,0	60,8	97,0	42,7	109,0
150	70	127,0	RH1505*	2.475	1.207	311,2†	438,2	215,9	-	-	37,3	68,3	139,7	65,1	-	-	194,1	94,8	136,9	66,8	67,2
150	75	203,2	RH1508*	3.929	2.086	349,3	552,5	247,7	-	-	39,3	61,1	152,4	80,2	5-12	-	193,2	102,6	135,9	72,1	103,1
200	75	203,2	RH2008*	5.307	2.093	408,0	611,2	273,1	-	-	57,2	81,8	190,5	103,2	6-12	1 1/4-12 x 198,1	260,9	102,9	183,5	72,4	142,0

* Supplied with carrying handles.

† Measured with 19 mm high serrated insert installed.
See pages 36-41 & 120-133 for hydraulic accessories.

Aluminum

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Center Hole CYLINDERS RT SERIES

17½-100 Ton

Single- Acting, Spring-
Return & Double-Acting

Ideal for pulling and pressing.



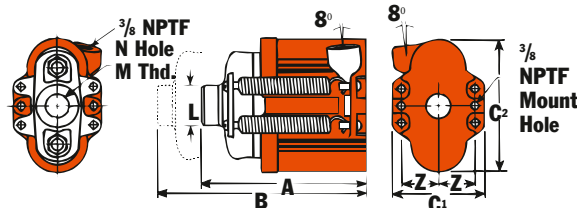
- A proven design; used throughout industry for over 40 years.
- Cylinders withstand full “dead-end” loads.
- Compact design; ideal for applications in which space is limited.
- Basic head can be changed from a tapped hole to plain hole by simply changing insert. (See page 41)
- Pistons have “Power Tech” treatment for corrosion and abrasion resistance.

RT 302

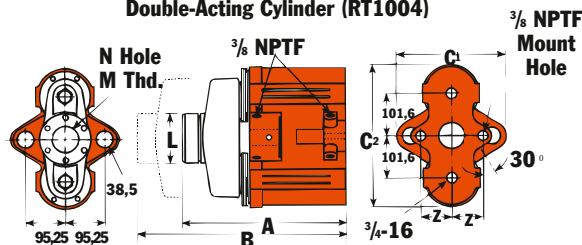
ASME B30.1
700 BAR

CYLINDERS

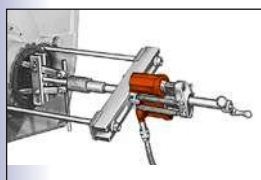
Dimensions for reference only.
Single-Acting, Spring-Return Cylinders



Double-Acting Cylinder (RT1004)



RT 1004



Cyl. Capacity (Tons)	Stroke (mm)	Order No.	Oil Cap. (cm³)		A Re- tracted Height (mm)	B Ex- tended Height (mm)	C1 Out- side Dia. (mm)	C2 Out- side Dia. (mm)	L Load Cap Dia. (mm)	M Load Cap Thread (in.)	N Center Hole Dia. (mm)	Z Mounting Hole Location (mm)	Cyl. Mounting Hole (mm)	Metric Area (cm²)	Tons at 700 bar	Weight (kg)
17,5	50,8	RT172	116	-	174,6	225,4	95,3	146,1	44,5	1-8	27,0	38,1	8,7	22,8	16,1	6,6
30	63,5	RT302	258	-	214,3	277,8	108,0	190,5	57,2	1 1/4-7	32,9	46,0	11,9	40,5	28,5	12,8
50	76,2	RT503	482	-	268,3	344,5	149,2	238,1	73,0	1 5/8-5 1/2	42,5	60,3	16,7	63,3	44,5	25,4
100	123,8	RT1004**	1.583	1.037	384,2	508,0	266,7	336,6	120,7	2 1/2-8	65,1	73,0	19,8	124,1*	87,3	72,6

* Push side only.

** 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.

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Pulling CYLINDERS RP SERIES

2 & 5 Ton
Single-Acting,
Spring-Return

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.

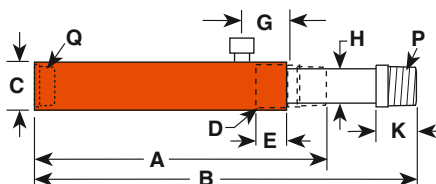


RP55

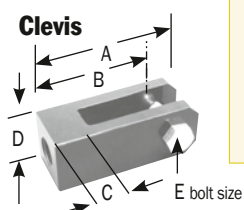


RP25

ASME B30.1
700 BAR



Cyl. Cap. (Tons)	Stroke (mm)	Order No.	Oil Cap. (cm³)	A Re-tracted Height (mm)	B Ex-tended Height (mm)	C Outside Dia. (mm)	D Collar Thread (in.)	E Collar Thread Length (mm)	G Cylinder Top to Port (mm)	H Piston Rod Dia. (mm)	K Piston Rod Protrusion (mm)	P Piston Rod Thread (NPTF)	Q Piston Rod Base Thread (NPTF)	Bore Dia. (mm)	Cyl. Eff. Area (cm²)	Metric Tons at 700 bar Pull	Weight (kg)
2	127,0	RP25	45	242,9	379,9	44,5	1 1/2-16	25,4	42,9	19,1	25,4	3/4-14	3/4-14	28,6	3,5	2,5	1,8
5	139,7	RP55	102	301,6	441,3	57,2	2 1/4-14	25,4	42,9	30,2	34,9	1 1/4-11 1/2	1 1/4-11 1/2	42,9	7,3	5,1	5



Clevis ORDERING INFORMATION

Use with Cyl No.	Order No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
RP25	421057*	130,3	109,5	33,3	50,8	19,1
RP55	421056**	152,4	127,0	38,1	63,5	22,4

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

CYLINDERS

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Double Acting CYLINDERS RD SERIES

10-500 Ton

Double Acting,
Hydraulic-Return

High tonnage premium design
for high cycle life.

CYLINDERS

- Perfect for bridge lifting, building reconstruction, shipyard, utility and mining equipment maintenance.
- Aluminum bronze overlay bearings provide long life, chrome plated piston rod resist 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.



RD556

RD10013

RD30013

ASME B30.1
700 BAR

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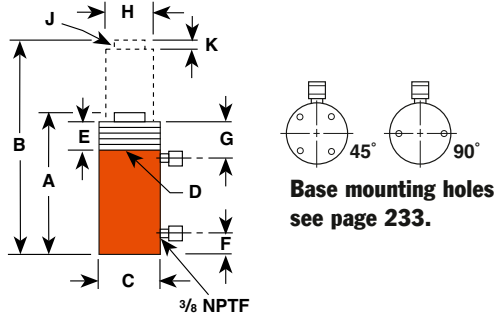
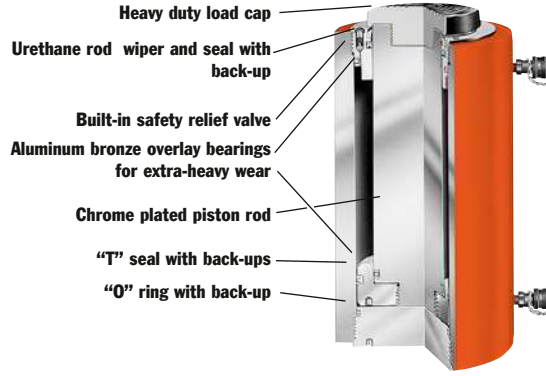
TECH DATA

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Four special ordered 500 ton, 610 mm stroke cylinders used in a swaging press for crimping 89 mm wire rope.



Features of RD Series Cylinders



Threads withstand full load.



CYLINDERS

				Base Cylinder																		
Cyl. Cap (tons)	Stroke (mm)	Order No.	Oil Capacity (cm³)		Re- tracted Height (mm)	Ex- tended Height (mm)	Out- side Dia. (mm)	Collar Thread Size (in.)	Thread Length (mm)	Port trusion (mm)	Piston Top to Port (mm)	Piston Rod Dia. (mm)	Rod Int. (in) and Depth (mm)	Piston Rod Pro- trusion (mm)	Load Cap Dia. (mm)	Bore Dia. (mm)	Cyl. Eff. Area (cm²)		Metric Tons at 700 bar		Weight (kg)	
			Push	Pull													Push	Pull	Push	Pull		
10	4	158,8	RD106	228	90	296,9	455,6	76,2	2 3/4-12	41,3	25,4	63,5	33,3	1-8 x 25,4	6,4	34,9	42,9	14,4	5,7	10,2	4,0	10,0
10	4	254,0	RD1010	366	144	398,5	652,5	76,2	2 3/4-12	41,3	25,4	63,5	33,3	1-8 x 25,4	6,4	34,9	42,9	14,4	5,7	10,2	4,0	12,7
25	8	158,8	RD256	528	166	314,3	473,1	101,6	4-12	41,3	25,4	63,5	54,0	1 1/2-16 x 25,4	9,5	54,0	65,1	33,2	10,4	23,4	7,3	18,1
25	8	362,0	RD2514	1.205	376	517,5	879,5	101,6	4-12	41,3	25,4	63,5	54,0	1 1/2-16 x 25,4	9,5	54,0	65,1	33,2	10,4	23,4	7,3	29,5
55	28	158,8	RD556	1.132	577	329,4	488,2	127,0	5-12	41,3	33,3	63,5	66,7	1 11/16 x 30,2	15,9	66,7	95,3	71,2	36,3	50,1	25,6	27,9
55	28	333,4	RD5513	2.376	1.212	504,0	837,4	127,0	5-12	41,3	33,3	63,5	66,7	1 11/16 x 30,2	15,9	66,7	95,3	71,2	36,3	50,1	25,6	40,9
55	28	460,4	RD5518	3.280	1.673	657,2	1.117,6	127,0	5-12	41,3	33,3	63,5	66,7	1 11/16 x 30,2	15,9	66,7	95,3	71,2	36,3	50,1	25,6	64,5
80	44	333,4	RD8013	3.421	1.901	517,5	850,9	146,1	5 3/4-12	41,3	38,1	63,5	76,2	2-4 1/2 x 38,1	14,3	73,0	114,3	102,6	57,0	72,1	40,1	53,6
100	44	168,3	RD1006	2.242	959	350,0	518,3	174,6	6 7/8-12	41,3	38,1	63,5	98,4	2 3/4-12 x 29,4	15,9	98,4	130,2	133,1	57,0	93,5	40,1	57,2
100	44	333,4	RD10013	4.440	1.902	515,1	848,5	174,6	6 7/8-12	41,3	38,1	63,5	98,4	2 3/4-12 x 29,4	15,9	98,4	130,2	133,1	57,0	93,5	40,1	82,2
100	44	511,2	RD10020	6.809	2.919	718,3	1.229,5	174,6	6 7/8-12	41,3	38,1	63,5	98,4	2 3/4-12 x 29,4	15,9	98,4	130,2	133,1	57,0	93,5	40,1	118,0
150	73	168,3	RD1506	3.334	1.606	377,8	546,1	209,6	8 1/4-12	41,3	50,8	63,5	114,3	3 1/4-8 x 38,1	20,6	114,3	158,8	197,9	95,3	139,1	66,9	85,4
150	73	333,4	RD15013	6.604	3.180	542,9	876,3	209,6	8 1/4-12	41,3	50,8	63,5	114,3	3 1/4-8 x 38,1	20,6	114,3	158,8	197,9	95,3	139,1	66,9	123,5
150	73	460,4	RD15018	9.132	4.392	673,9	1.134,3	209,6	8 1/4-12	41,3	50,8	63,5	114,3	3 1/4-8 x 38,1	19,1	114,3	158,8	197,9	95,3	139,1	66,9	170,7
200	113	168,3	RD2006	4.485	2.457	406,4	574,7	241,3	9 1/2-12	41,3	63,5	68,3	123,8	3 1/4-8 x 57,1	27,0	114,3	184,2	266,3	145,9	187,2	102,6	118,9
200	113	333,4	RD20013	8.886	4.869	571,5	904,9	241,3	9 1/2-12	41,3	63,5	68,3	123,8	3 1/4-8 x 57,1	27,0	114,3	184,2	266,3	145,9	187,2	102,6	161,6
200	113	460,4	RD20018	12.270	6.722	723,9	1.184,3	241,3	9 1/2-12	41,3	63,5	68,3	123,8	3 1/4-8 x 57,1	27,0	114,3	184,2	266,3	145,9	187,2	102,6	200,7
300	147	152,4	RD3006	5.920	2.903	488,9	591,3	273,1	10 1/2-12	60,3	85,7	85,7	158,8	2 1/2-12 x 82,5	28,6	174,6	222,3	387,8	190,0	272,7	133,6	172,5
300	147	330,2	RD30013	12.825	6.281	630,2	960,4	273,1	10 1/2-12	60,3	85,7	85,7	158,8	2 1/2-12 x 82,5	28,6	174,6	222,3	387,8	190,0	272,7	133,6	296,9
400	186	152,4	RD4006	7.724	4.051	489,7	642,1	320,7	12 1/2-8	69,9	97,6	97,6	184,2	3-12 x 92,2	31,8	198,4	254,0	506,6	240,3	356,2	169,0	265,6
400	186	330,2	RD40013	16.744	8.790	667,5	997,7	320,7	12 1/2-8	69,9	97,6	97,6	184,2	3-12 x 92,2	31,8	198,4	254,0	506,6	240,3	356,2	169,0	349,6
500	245	152,4	RD5006	9.774	4.838	522,3	674,7	374,7	14 3/4-8	79,4	105,6	105,6	203,2	3 1/4-12 x 107,9	38,1	215,9	285,8	641,1	317,0	450,8	222,8	371,8
500	245	330,2	RD50013	21.189	10.480	700,1	1.030,3	374,7	14 3/4-8	79,4	105,6	105,6	203,2	3 1/4-12 x 107,9	38,1	215,9	285,8	641,1	317,0	450,8	222,8	495,8

CYLINDER/PUMP MATCHING

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High Tonnage CYLINDERS R SERIES

55-565 Ton
Single-Acting
Load-Return

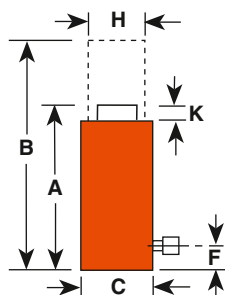
High-tonnage, low cycle,
gravity return.

CYLINDERS



R2802C

ASME B30.1
700 BAR



- 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 increase corrosion resistance and give superior bearing qualities.

Cyl. Cap. (tons)	Stroke (mm)	Order No.	Oil Cap. (cm ³)	A	B	C	F	H	K	Piston			
				Retracted Ht. (mm)	Extended Ht. (mm)	Outside Dia. (mm)	to Port (mm)	Base Rod Dia. (mm)	Piston Rod Protrusion (mm)	Bore Dia. (mm)	Effective Area (cm ²)	Metric Tons at 700 bar	Weight (kg)
55	50,8	R552C	362	125,4	176,2	127,0	25,4	95,3	3,2	95,3	71,2	50,1	12,3
55	152,4	R556C	1.087	227,0	379,4	127,0	25,4	95,3	3,2	95,3	71,2	50,1	22,7
55	254,0	R5510C	1.811	328,6	582,6	127,0	25,4	95,3	3,2	95,3	71,2	50,1	32,7
100	50,8	R1002C	677	139,7	190,5	165,1	25,4	130,2	3,2	130,2	133,1	93,6	23,6
100	152,4	R1006C	2.030	241,3	393,7	165,1	25,4	130,2	3,2	130,2	133,1	93,6	40,4
150	50,8	R1502C	1.007	161,9	212,7	204,8	31,8	158,8	3,2	158,8	197,9	139,1	41,8
150	152,4	R1506C	3.019	263,5	415,9	204,8	31,8	158,8	3,2	158,8	197,9	139,1	68,6
150	254,0	R15010C	5.032	365,1	619,1	204,8	31,8	158,8	3,2	158,8	197,9	139,1	95,3
200	50,8	R2002C	1.355	190,5	241,3	235,0	41,3	184,2	3,2	184,2	266,3	187,2	65,8
200	152,4	R2006C	4.062	292,1	444,5	235,0	41,3	184,2	3,2	184,2	266,3	187,2	100,3
280	50,8	R2802C	1.861	190,5	241,3	260,4	41,3	215,9	3,2	215,9	365,9	257,5	91,6
280	152,4	R2806C	5.583	292,1	444,5	276,2	41,3	215,9	3,2	215,9	365,9	257,5	136,7
355	50,8	R3552C	2.326	231,8	282,6	298,5	54,0	241,3	3,2	241,3	457,2	321,4	137,1
355	152,4	R3556C	6.975	333,4	485,8	298,5	54,0	241,3	3,2	241,3	457,2	321,4	197,0
355	254,0	R35510C	11.624	435,0	689,0	298,5	54,0	241,3	3,2	241,3	457,2	321,4	256,5
430	50,8	R4302C	2.841	263,5	314,3	330,2	63,5	266,7	3,2	266,7	558,5	392,7	199,8
430	152,4	R4306C	8.520	365,1	517,5	330,2	63,5	266,7	3,2	266,7	558,5	392,7	276,5
565	50,8	R5652C	3.710	292,1	342,9	377,8	69,9	304,8	3,2	304,8	729,5	512,9	289,7
565	152,4	R5656C	11.129	393,7	546,1	377,8	69,9	304,8	3,2	304,8	729,5	512,9	389,5
565	254,0	R56510C	18.548	495,3	749,3	377,8	69,9	304,8	3,2	304,8	729,5	512,9	489,4

For use with "RC" cylinders			SWIVEL CAPS	
			Reduce the effects of off center loading. Tilts up to 5 degrees. Radial grooves on top of cap reduce load slippage.	
Use with Cyl. No.	Swivel Cap Order No.	Weight (kg)	A (mm)	B (mm)
150-200 ton	420867	4,0	38,1	130,2
280 ton	420868	6,1	44,5	149,2
355 ton	420869	16,8	69,9	195,3
430 ton	420870	23,6	79,4	225,4
565 ton	420871	35,4	92,1	250,8

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 CYLINDER RC SERIES

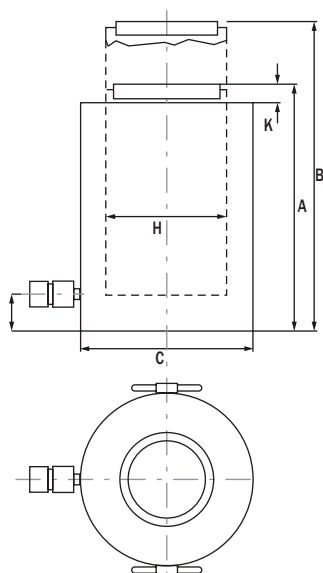
740 - 1220 Ton
Single-Acting,
Load Return

High-tonnage, low cycle,
gravity return.

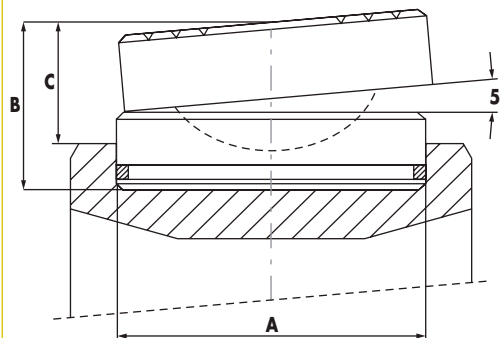
- Overflow port ("weep hole") prevents piston from being overextended under load.
- Alloy heat treated piston and body for reliability and strength.
- Plated piston rod increase corrosion resistance and give superior bearing qualities.



Single-Acting High Tonnage Cylinders



Swivel Cap



Order No.	Used with Cyl.	A mm	B mm	C mm	Product Wt. kg
2000822	RC740*C	200	79	56	19
2000823	RC965*C	249	104	76	40
2000825	RC1220*C	323	175	124	113

Cyl. Cap. (tons)	Stroke (mm)	Order No.	Oil Cap. (cm ³)	A Retracted Height (mm)	B Extended Height (mm)	C Outside Dia. (mm)	F Base to Port (mm)	H Piston Rod Dia. (mm)	K Piston Rod Protrusion (mm)	Bore Dia. (mm)	Cyl. Effective Area (cm ²)	Metric Tons @ 700 bar	Product Wt. (kg)
740	50	RC7402C	4.811	265	315	430	65	350	9	350	962	673,5	300
740	150	RC7406C	14.132	365	515	430	65	350	9	350	962	673,5	416
740	250	RC74010C	24.053	465	715	430	65	350	9	350	962	673,5	530
965	50	RC9652C	6.283	290	340	490	70	400	10	400	1.256,6	879,7	423
965	150	RC9656C	18.850	390	540	490	70	400	10	400	1.256,6	879,7	577
965	250	RC96510C	31.416	490	740	490	70	400	10	400	1.256,6	879,7	725
1220	50	RC12202C	7.952	415	465	550	80	450	10	450	1.590,4	1.113,3	766
1220	150	RC12206C	23.856	440	665	550	80	450	10	450	1.590,4	1.113,3	960
1220	250	RC122010C	39.761	615	865	550	80	450	10	450	1.590,4	1.113,3	1.147

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High Tonnage CYLINDERS R SERIES

100-565 Ton
Double-Acting,
Hydraulic-Return

High-tonnage, low cycle,
hydraulic return.

CYLINDERS

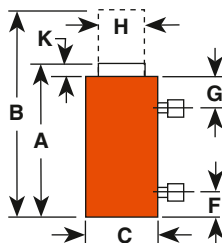
- Cylinders come standard with swivel caps to reduce the effects of off-center loading.
- Cylinders may be “dead-ended” without damage.
- Hard chrome plated, heat treated piston rod reduces wear on piston and gland nut.
- Built-in safety relief valve prevents over-pressurization of the retract circuit.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



R1502D



R2806D



Cyl. Cap. (tons)	Stroke (mm)	Order No.	Oil Capacity (cm ³)		A Re- tracted Height (mm)	B Ex- tended Height (mm)	C Outside Dia. (mm)	F Base to Port (mm)	G Cylinder Top to Port (mm)	H Piston Rod Dia. (mm)	K Piston Rod Protrusion (mm)	Bore Dia. (mm)	Cylinder Effective Area (cm ²) Push	Metric Tons at 700 bar Push	Weight (kg)
			Push	Return											
100	50,8	R1002D	676	315	168,7	219,5	165,1	25,4	56,0	95,3	7,1	130,2	132,9	93,4	24,5
100	152,4	R1006D	2.027	945	270,3	422,7	165,1	25,4	56,0	95,3	7,1	130,2	132,9	93,4	36,8
100	254,0	R10010D	3.378	1.574	371,9	625,9	165,1	25,4	56,0	95,3	7,1	130,2	132,9	93,4	49,0
150	50,8	R1502D	1.007	485	188,9	239,7	204,8	31,8	57,2	114,3	7,5	158,8	198,0	139,1	43,1
150	152,4	R1506D	3.021	1.456	290,5	442,9	204,8	31,8	57,2	114,3	7,5	158,8	198,0	139,1	61,7
200	50,8	R2002D	1.355	643	206,8	257,6	235,0	41,3	58,7	133,4	8,7	184,2	266,4	187,2	61,7
200	152,4	R2006D	4.064	1.929	308,4	460,8	235,0	41,3	58,7	133,4	8,7	184,2	266,4	187,2	84,9
200	254,0	R20010D	6.773	3.214	410,0	664,0	235,0	41,3	58,7	133,4	8,7	184,2	266,4	187,2	108,5
280	50,8	R2802D	1.861	774	233,8	284,6	276,2	47,6	65,5	165,1	10,3	215,9	365,7	257,3	99,4
280	152,4	R2806D	5.579	2.322	335,4	447,8	276,2	47,6	65,5	165,1	10,3	215,9	365,7	257,3	134,8
280	254,0	R28010D	9.299	3.870	437,0	691,0	276,2	47,6	65,5	165,1	10,3	215,9	365,7	257,3	170,7
355	50,8	R3552D	2.326	777	288,9	339,7	298,5	54,0	69,9	196,9	11,1	241,3	457,3	321,4	147,0
355	152,4	R3556D	6.977	2.332	390,5	542,9	298,5	54,0	69,9	196,9	11,1	241,3	457,3	321,4	191,1
430	50,8	R4302D	2.840	977	312,7	363,5	330,2	63,5	75,0	215,9	11,9	266,7	558,6	392,7	199,3
430	152,4	R4306D	8.521	2.932	414,3	566,7	330,2	63,5	75,0	215,9	11,9	266,7	558,6	392,7	253,3
430	254,0	R43010D	14.202	4.887	515,9	769,9	330,2	63,5	75,0	215,9	11,9	266,7	558,6	392,7	305,5
565	50,8	R5652D	3.710	1.260	345,3	396,1	377,8	69,9	81,4	247,7	13,9	304,8	729,5	512,9	281,0
565	152,4	R5656D	11.129	3.779	446,9	599,3	377,8	69,9	81,4	247,7	13,9	304,8	729,5	512,9	350,4
565	254,0	R56510D	18.548	6.298	548,5	802,5	377,8	69,9	81,4	247,7	13,9	304,8	729,5	512,9	420,4



High Tonnage CYLINDER RC SERIES

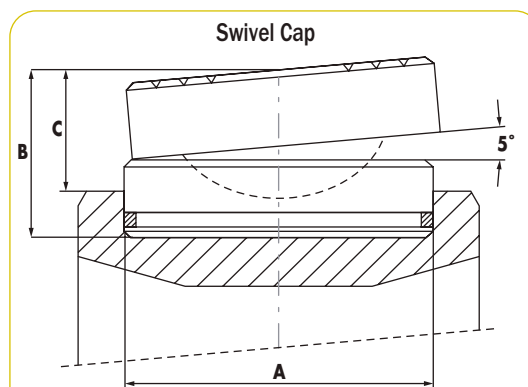
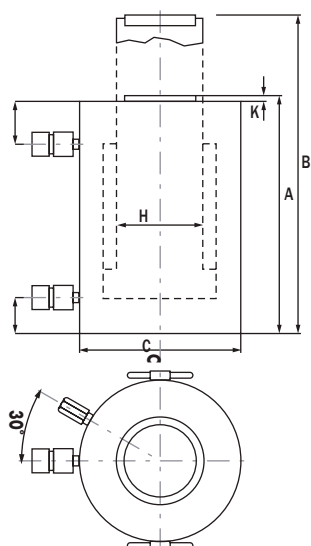
740 & 1220
Double-Acting,
Hydraulic Return

High Tonnage Cylinders
Rugged And Reliable!

- Cylinders come standard with hardened caps.
- Optional swivel caps to reduce the effects of off-center loading.
- 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



Order No.	Used with Cyl.	A mm	B mm	C mm	Product Wt. kg
2000822	RC740*D	200	79	56	19
2000823	RC965*D	249	104	76	40
2000825	RC1220*D	323	175	125	113

Cyl. Cap. (tons)	Stroke (mm)	Order No.	Oil Cap. (cm ³)	A Retracted Height (mm)	B Extended Height (mm)	C Outside Dia. (mm)	F Base to Port (mm)	G Cyl. Top to Port (mm)	H Piston Rod Dia. (mm)	K Piston Rod Protrusion (mm)	Cyl. Effective Area (cm ²)	Metric Tons at 700 bar	Product Wt.
740	50	RC7402D	4.811	283	333	430	65	100	280	9	962,0	673,5	304
740	150	RC7406D	14.132	398	548	430	65	100	280	9	962,0	673,5	398
740	250	RC74010D	24.053	508	758	430	65	100	280	9	962,0	673,5	490
965	50	RC9652D	6.283	310	360	490	70	115	320	10	1.256,6	879,7	434
965	150	RC9656D	18.850	420	570	490	70	115	320	10	1.256,6	879,7	551
965	250	RC96510D	31.416	530	780	490	70	115	320	10	1.256,6	879,7	668
1220	50	RC12202D	7.952	330	380	550	80	135	360	10	1.590,4	1.113,3	584
1220	150	RC12206D	23.856	440	590	550	80	135	360	10	1.590,4	1.113,3	731
1220	250	RC122010D	39.761	550	800	550	80	135	360	10	1.590,4	1.113,3	878

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Locking Collar

CYLINDER RL SERIES— ALUMINUM

55 & 100 Ton
Single- Acting,
Spring-Return

Positive mechanical lock to
support load.

CYLINDERS

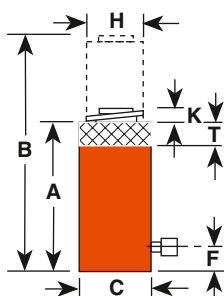


Locking collar feature
permits non-hydraulic
support of load.



- Support 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.

ASME B30.1
700 BAR



Cyl. Cap. (tons)	Stroke (mm)	Order No.	Oil Cap. (cm ³)	A Retracted Ht. (mm)	B Extended Ht. (mm)	C Outside Dia. (mm)	F Base to Port (mm)	H Piston Rod Dia. (mm)	K Piston Rod Protrusion (mm)	T Nut Thickness (mm)	T Bore Dia. (mm)	Cylinder Effective Area (cm ²)	Metric Tons at 700 bar	Weight (kg)
55	155,5	RA556L	1.109	317,5	473,1	133,4	34,9	82,6	12,7	38,1	95,3	71,2	50,1	13,4
100	158,8	RA1006L	2.116	339,7	498,5	187,3	30,2	114,3	6,4	38,1	130,2	133,0	93,5	29,1

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

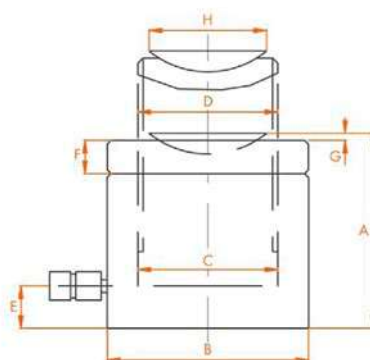
Positive mechanical lock to support load.

- 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 caps. Optional swivel caps reduce the effects of off-center loading

Single-Acting Locking Collar Cylinders
Equipped with 3/8" NPTF female half couplers



CYLINDERS



Metric Tons at 700 bar	Stroke (mm)	Order No.	Oil Cap. (cm ³)	A Retracted Height (mm)	B Outside Dia. (mm)	C Piston Rod Dia. (mm)	D Bore Dia. (mm)	E Base to Port (mm)	F Nut Thickness (mm)	G Swivel Cap Protrusion (mm)	H Swivel Cap Dia. (mm)	Weight. (kg)
50	50	RC0552P	355	125	120	95	95	19	21	6	92	11
100	45	RC1002P	597	137	165	130	130	21	31	8	126	22
155	45	RC1552P	905	148	205	160	160	27	38	9	148	39
240	45	RC2402P	1.413	155	255	200	200	28	40	10	157	59
380	45	RC3802P	2.208	178	320	250	250	35	50	11	240	110
620	45	RC6202P	3.618	192	405	320	320	38	60	10	295	193



Locking Collar CYLINDER RL SERIES STEEL

55 -565 Ton
Single- Acting,
Load-Return

Positive mechanical lock to
support load.

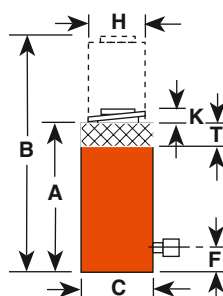
CYLINDERS



Locking collar feature permits
non-hydraulic support of load.

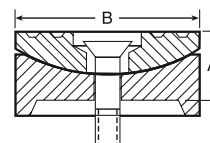
- Support lifted load for extended periods of time with hydraulic pressure released.
- Visible indicator band alerts when stroke limit is reached; overflow port ("weep hole") stroke limiter prevents piston from being overextended.
- All cylinders feature coated pistons to resist corrosion and abrasion.

ASME B30.1
10,000 PSI



R556L

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. Notch across face of each cap helps keep loads having a protruding or round shaped centered.



A (mm)	B (mm)	Use with Cyl. No.	Swivel Cap Order No.	Wt. (kg)
25,4	71,4	55-100 ton	420866	0,8
38,1	130,2	150-200 ton	420867	4,8
44,5	149,2	280 ton	420868	6,1
69,9	195,3	355 ton	420869	16,8
79,4	225,4	435 ton	420870	23,6
92,1	250,8	565 ton	420871	35,4

Cyl. Cap. (tons)	Stroke (mm)	Order No.	Oil Cap. (cm³)	A Retracted Ht. (mm)	B Extended Ht. (mm)	C Outside Dia. (mm)	F Base to Port (mm)	H Piston Rod Dia. (mm)	K Piston Rod Protrusion (mm)	T Nut Thickness (mm)	Bore Dia. (mm)	Cylinder Effective Area (cm²)	Metric Tons at 700 bar	Weight (kg)
55	50,8	R552L	362	161,9	212,7	125,4	25,4	95,3	3,2	36,5	95,3	71,2	50,1	15,3
55	152,4	R556L	1.087	263,5	415,9	125,4	25,4	95,3	3,2	36,5	95,3	71,2	50,1	26,3
55	254,0	R5510L	1.811	365,1	619,1	125,4	25,4	95,3	3,2	36,5	95,3	71,2	50,1	36,3
100	50,8	R1002L	677	184,2	235,0	165,1	25,4	130,2	3,2	44,5	130,2	133,1	93,4	30,0
100	152,4	R1006L	2.030	285,8	438,2	165,1	25,4	130,2	3,2	44,5	130,2	133,1	93,4	46,8
100	254,0	R10010L	3.383	387,4	641,4	165,1	25,4	130,2	3,2	44,5	130,2	133,1	93,4	64,5
150	50,8	R1502L	1.007	206,4	257,2	204,8	31,8	158,8	3,2	44,5	158,8	197,9	139,1	53,0
150	152,4	R1506L	3.019	308,0	460,4	204,8	31,8	158,8	3,2	44,5	158,8	197,9	139,1	80,4
200	50,8	R2002L	1.355	241,3	292,1	235,0	41,3	184,2	3,2	50,8	184,2	266,3	187,2	83,1
200	152,4	R2006L	4.062	342,9	495,3	235,0	41,3	184,2	3,2	50,8	184,2	266,3	187,2	117,6
280	50,8	R2802L	1.861	247,7	298,5	276,2	41,3	215,9	3,2	57,2	215,9	366,0	257,3	118,5
280	152,4	R2806L	5.583	349,3	501,7	276,2	41,3	215,9	3,2	57,2	215,9	366,0	257,3	163,0
280	254,0	R28010L	9.305	450,9	704,9	276,2	41,3	215,9	3,2	57,2	215,9	366,0	257,3	208,1
355	50,8	R3552L	2.326	292,1	342,9	298,5	54,0	241,3	3,2	60,3	214,3	457,2	321,4	173,0
355	152,4	R3556L	6.975	393,7	546,1	298,5	54,0	241,3	3,2	60,3	241,3	457,2	321,4	232,5
430	50,8	R4302L	2.841	333,4	384,2	330,2	63,5	266,7	3,2	69,9	266,7	558,5	392,7	252,4
430	152,4	R4306L	8.520	435,0	587,4	330,2	63,5	266,7	3,2	69,9	266,7	558,5	392,7	329,2
430	254,0	R43010L	14.201	536,6	790,6	330,2	63,5	266,7	3,2	69,9	266,7	558,5	392,7	405,9
565	50,8	R5652L	3.710	371,2	422,3	377,8	69,9	304,8	3,2	79,4	304,8	729,5	512,9	368,2
565	152,4	R5656L	11.129	473,1	625,5	377,8	69,9	304,8	3,2	79,4	304,8	729,5	512,9	468,0
565	254,0	R56510L	18.548	574,7	828,7	377,8	69,9	304,8	3,2	79,4	304,8	729,5	512,9	568,0

- **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.

CYLINDER/PUMP MATCHING

Page 6

ACCESSORY/REPAIR

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LOAD CAPS

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PUMP/CYLINDER SETS

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HYDRAULIC ACCESSORIES

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VALVES

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TECH DATA

Page 231



Locking Collar

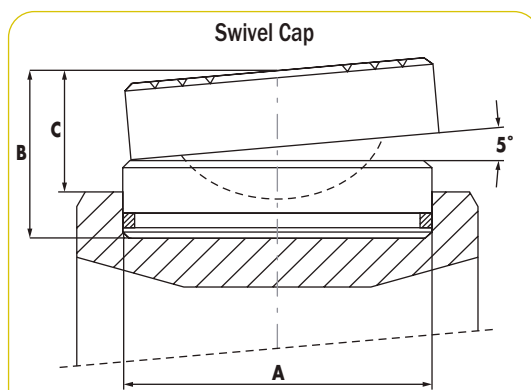
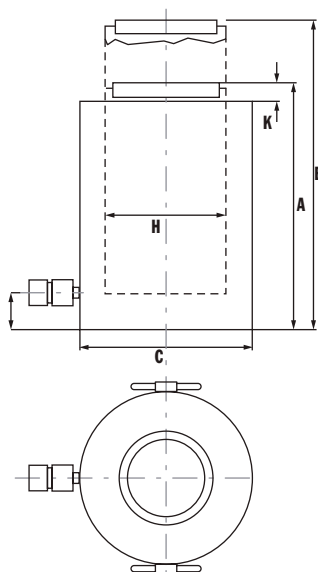
CYLINDER RC SERIES

740 & 1220
Single-Acting,
Load Return

Positive mechanical lock
to support load.

CYLINDERS

Single-Acting Locking Collar Cylinders



Order No.	Used with cyl.	A mm	B mm	C mm	Product Wt. kg
2000822	RC740*L	200	79	56	19
2000823	RC965*L	249	104	76	40
2000825	RC1220*L	323	175	125	113

Cyl. Cap. (tons)	Stroke (mm)	Order No.	Oil Cap. (mm ³)	A Retracted Height (mm)	B Extended Height (mm)	C Outside Dia. (mm)	F Base to Port (mm)	H Piston Rod Dia. (mm)	K Piston Rod Protrusion (mm)	Bore Dia. (mm)	Cyl. Effective Area (mm ²)	Metric Tons at 700 bar	Product Wt. (kg)
740	50	RC7402L	4.811	395	445	475	90	TR350X6	5	350	962,0	673,5	545
740	150	RC7406L	14.432	495	645	475	90	TR350X6	5	350	962,0	673,5	683
740	250	RC74010L	24.053	595	845	475	90	TR350X6	5	350	962,0	673,5	821
965	50	RC9652L	6.280	455	505	540	100	TR400X6	5	400	1.256,6	879,7	714
965	150	RC9656L	18.849	555	705	540	100	TR400X6	5	400	1.256,6	879,7	990
965	250	RC96510L	31.400	635	885	540	100	TR400X6	5	400	1.256,6	879,7	1.170
1220	50	RC12202L	7.949	443	493	600	110	TR450X6	5	450	1.590,4	1.113,3	969
1220	150	RC12206L	23.856,5	598	748	600	110	TR450X6	5	450	1.590,4	1.113,3	1.310
1220	250	RC122010L	39.741	698	948	600	110	TR450X6	5	450	1.590,4	1.113,3	1.530



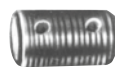
Accessories

C SERIES

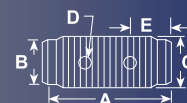
Mounting accessories

C Series

CYLINDERS



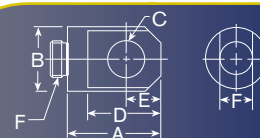
Threaded Connector



Cylinder Tons	Part No.	A (mm)	B (mm)	C (in)	D (mm)	E
5	25748	44,5	22,4	$\frac{3}{4}$ -14 NSPM	4,8	12,7
10	25664	41,4	36,6	$1\frac{1}{4}$ -11 $\frac{1}{2}$ NSPM	7,9	14,2
25	25654	57,2	54,1	2-11 $\frac{1}{2}$ NSPM	9,7	16

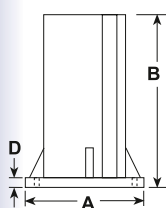


Piston Clevis



Cylinder Tons	Part No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
5**	350095	44,5	28,7	16	36,6	16	14,2
10 or 15**	350094	65	42,9	22,4	58,7	25,4	25,4
25**	420059	74,7	57,2	31,8	68,3	31,8	38,1

** Can be used with RD106, RD1010 Cylinder.



Support Base

Cylinder	Order	A (mm)	B (mm)	C (mm)
10	420062	177,8	127	11,2
25	420063	177,8	127	11,2



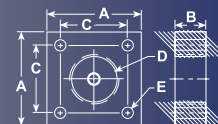
Threaded Adapter Plain Adapter



Cylinder Tons	Part No.	A (mm)	B (mm)	C (mm)	D (in)	E
5	202178 (threaded)	41,4	28,7	26,9	$\frac{3}{4}$ -14 NPT	$\frac{3}{4}$ -16UNF-2A
10 or 15	202179 (threaded)	46,0	26,9	41,4	$1\frac{1}{4}$ -11 $\frac{1}{2}$ -NPT	1-8UNC-2A
25	202180 (threaded)	69,9	47,8	60,5	2-11 $\frac{1}{2}$ -NPT	$1\frac{1}{2}$ -16UN-2A
10 or 15	350724 (plain)	50,8	31,8	37,6	-	1-8UNC-2A
25	350723 (plain)	54,1	31,8	57,2	-	$1\frac{1}{2}$ -16UN-2A

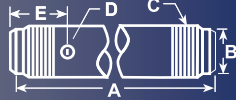


Cylinder Mounting Plate



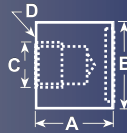
Cylinder Tons	Part No.	A (mm)	B (mm)	C (mm)	D (in)	E (mm)
5	350099	76,2	25,4	54,1	$1\frac{1}{2}$ -16UN-2B	8,6
10	350100	88,9	25,4	66,8	$2\frac{1}{4}$ -14UNS-2B	8,6
15	350184	88,9	25,4	66,8	$2\frac{3}{4}$ -16UN-2B	8,6
25	420064	127	50,8	93	$3\frac{5}{16}$ -12UN-2B	16,8

Extension Rod



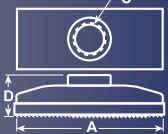
Cylinder Tons	Part No.	A (mm)	B (mm)	C (in)	D (mm)	E (mm)
5	350895	127	22,4	3/4-14 NPT	8,4	50,8
5	38908	254	22,4	3/4-14 NPT	8,4	50,8
5	350896	457,2	22,4	3/4-14 NPT	8,4	50,8
10	350897	127	36,6	1 1/4-11 1/2-NPT	8,4	50,8
10	38909	254	36,6	1 1/4-11 1/2-NPT	8,4	50,8
10	350898	457,2	36,6	1 1/4-11 1/2-NPT	8,4	50,8

Cylinder Base Attachment



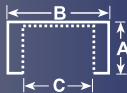
Cylinder Tons	Part No.	A (mm)	B (mm)	C (in)	D (mm/in)
5†	208380	41,4	44,5	3/4-14NPSM	7,1Dia. (No.2) 1/4-20 UNC x3/4" Lg.Socket Head Cap Screws
10†	208381	47,8	63,5	1 1/4-11 1/2-NPSM	8,6 Dia. (No.2) 5/16-18 UNC x1" Lg. Socket Head Cap Screws
25†	208382	60,5	98,6	2-11 1/2-NPSM	13,5 Dia. (No.2) 1/2-13 UNC x 1" Lg. Socket Head Cap Screws

Cylinder Flat Base



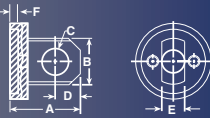
Cylinder Tons	Part No.	A (mm)	B (mm)	C (in)	D (mm)
5	25750*	114,3	63,5	3/4-14-NPSM	34
10	32325*	166,6	88,9	1 1/4-11 1/2-NPSM	36,6

Smooth Saddle Serrated Saddle

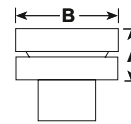


Cylinder Tons	Part No.	A (mm)	B (mm)	C (in)
5	25746* (serrated)	28,7	33,3	3/4-14NPSM
10 or 15	31772* (serrated)	28,7	50,8	1 1/4-11 1/2-NPSM
25	31776* (serrated)	33,3	76,2	2-11 1/2-NPSM
5	351575* (plain)	28,7	33,3	3/4-14-NPSM
10	24016* (plain)	28,7	50,8	1 1/4-11 1/2-NPSM
25	351576* (plain)	33,3	76,2	2-11 1/2-NPSM

Body Clevis†

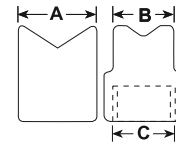


Cylinder Tons	Part No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
5	350096	52,3	28,7	16	16	14,2	6,4
10	350097	76,2	42,9	22,4	25,4	25,4	6,4
15	350098	77,7	42,9	22,4	25,4	25,4	6,4
25	420061	90,4	57,2	31,8	31,8	38,1	6,4

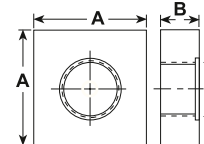


Swivel Cap

Cylinder Tons	Part No.	A (mm)	B (mm)
10 or 15	350144	22,4	36,5
25	350145	28,7	54
55 or 75	350376	31,8	71,4
100	351574	48,5	88,1



Cylinder Tons	Part No.	A (mm)	B (mm)	C (in)
5	25388*	35,1	26,9	3/4-14-NPSM
10	25395*	54,1	54,1	1 1/4-11 1/2-NPSM



Plunger Base

Cylinder Tons	Part No.	A (mm)	B (mm)	C (in)
25	25652	152,4	31,8	2-11 1/2-NPSM

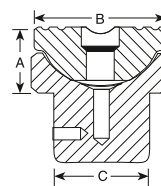
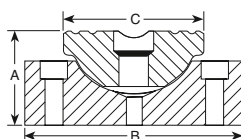
* Items require threaded adapter (Page 36) when used with "C" series cylinders. They may be used on threaded "CBT" cylinders without the use of an adapter.

† Mounting screws are included.



Accessories

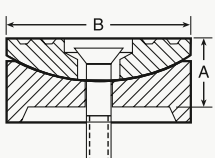
Swivel Caps Center Hole Accessories



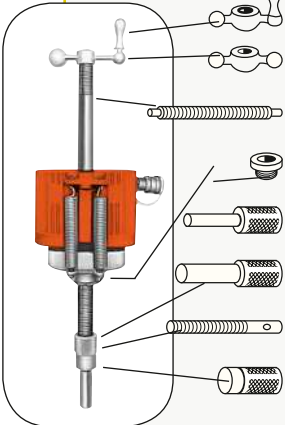
CYLINDERS

		SWIVEL CAPS FOR "RSS",			
Use with	Swivel Cap	Weight	A	B	C
RSS101	350320	0,2	25,4	36,5	36,5
RSS202	350321	0,6	34,9	54	54
RSS302	350322	0,7	34,9	63,5	54
RSS502	350331	1,2	36,5	82,6	54
RSS1002	350332	3,0	46	111,1	85,7
Tonnage		"RA" Cylinders			
55	350376	0,9	31,8	71,4	71,4
100	350984	2,5	49,2	95,3	79,4

SWIVEL CAPS FOR "RD" CYLINDERS					
Cylinder	Swivel Cap	Weight	A	B	C
10	350144	0,4	22,2	36,5	21,8
25	350145	0,6	28,6	54	36,5
55	351325	1,9	61,9	63,5	39,3
100	351324	5,1	75,0	95,3	67,5
150	351334	5,8	66,7	111,1	77,8

For use with "RC" cylinders			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 "RL" cylinders		
Use with Cyl. No.	Swivel Cap Order No.	Weight (kg)	A (mm)	B (mm)			A (mm)	B (mm)	Use with Cyl. No. Swivel Cap Order No. Wt. (kg)
150-200 ton	420867	4,0	38,1	130,2			25,4	71,4	55-100 ton 420866 0,8
280 ton	420868	6,1	44,5	149,2			38,1	130,2	150-200 ton 420867 4,8
355 ton	420869	16,8	69,9	195,3			44,5	149,2	280 ton 420868 6,1
435 ton	420870	23,6	79,4	225,4			69,9	195,3	355 ton 420869 16,8
565 ton	420871	35,4	92,1	250,8			79,4	225,4	435 ton 420870 23,6
							92,1	250,8	565 ton 420871 35,4

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		RT172, RH203	RT302, RH302 RH303, RH306	RT503, RH503, RH603 RH605, RH606	RT1004	
Order Set No.		RHA20	RHA30	RHA50	RHA100	
	1 Speed Crank	1	24814	27198	29595	303785
	2 Speed Nut	2	302482	302483	33439	34136
	3 Adjusting Screw	3	1"-8	1 1/4"-7	1 5/8"-5 -"	2 1/2"-8
			32118	34758	32698	32699
	1"-8 508 mm Lg. 1 1/4"-7 x 609,6 mm Lg. 1 5/8"-5 1/2"x 762 mm Lg. 2 1/2 "-8 x 869,9 mm Lg.					
	4 Threaded Insert	4	Order threaded insert for RH series cylinders with the accessory set.(See page 36/37) Threaded insert supplied with RT series cylinders.			
	5 Pushing Adapter	5	201923	34510	34755	-
	6 Pushing Adapter	6	1"-8, 12,7 mm dia. shank	1 1/4"-7 x 19,1mm dia. shank	1 5/8"-5 1/2" x 25,4 mm dia. shank	-
201454			34511	34756		
1"-8, 19,5 mm dia. shank			1 1/4"-7 x 25,4 mm dia. shank	1 5/8"-5 1/2" x 31,7 mm dia. shank		
7 Jack Screw	7	24813	25931	32701	32702	
8 Screw Cap	8	1"-8 x 177,8 mm Lg.	1 1/4"-7 x 228,6 mm Lg.	1 5/8"-5 1/2" x 279,4 mm Lg.	-	
		28228	28229	28230		
		1"-8 x 38,1 mm dia.	1 1/4"-7 x 44,4 mm dia	1 5/8"-5 1/2" x 57,2 mm Lg.		



Accessories

Seal Kits

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	300933	—
R4306D	300933	—
R43010D	300933	—
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	—

* Nitrile seals come standard on all cylinders.



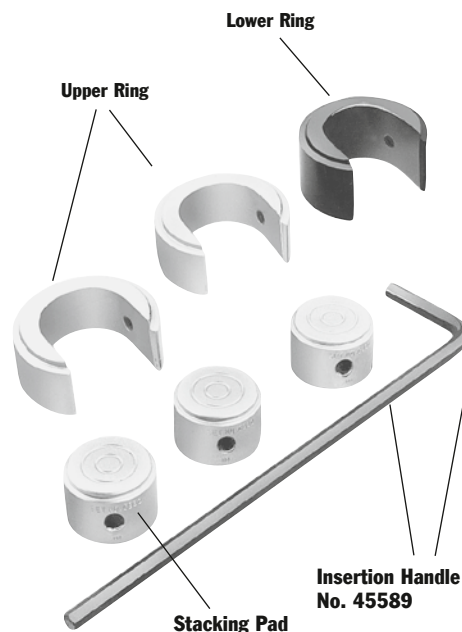
Accessories

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. Reduce 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.



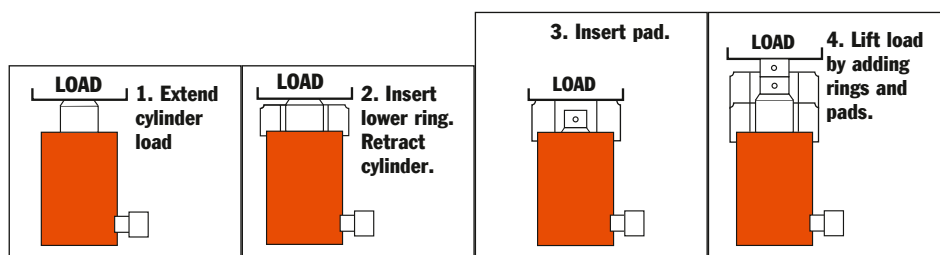
Each cribbing block set includes rings, pads and insertion handle.

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	2	3
Outside Diameter (mm)	114,3	114,3	69,9	139,7	139,7	85,7	187,7	187,7	120,7
Inside Diameter (mm)	71,4	71,4	—	87,7	87,7	—	122,2	122,2	—
Height, each (mm)	57,9	45,6	45,2	56,4	43,7	42,8	54	44,5	43,7
Total stacked height of rings in Set (mm)	138,1			131,7			174,6		
Weight of Set (kg)	9,1			12,7			29		

Each set includes one Insertion Handle No. 45589 - 1/2" Hex. x 18" Long, 4" Bend



Accessories

Cylinder

CYLINDER LIFTING HANDLE

No. 4206550R9 — Lifting handle for “C” series, 25 ton cylinders.

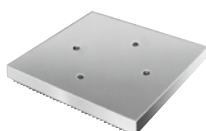
No. 4213120R9 — Lifting handle for RH302, RH303, RH306 and RH306D, cylinders.

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 $\frac{3}{8}$ ”–16 screws (included). Serrated base for extra stability.

No. 208406 – Aluminum cylinder base, 317 cm². For use with RA556, RA556L and RA5510 cylinders.



Quick-Change Inserts

HEAD INSERTS FOR RH SERIES CYLINDERS

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

“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