

> Power Team

HYDRAULIC PUMPS | CYLINDERS | JACKS | PULLERS | TOOLS

PROTORC

TORQUE WRENCHES
&
BOLTING PRODUCTS



HydraTorque

PTPR15 - Short Form Catalogue

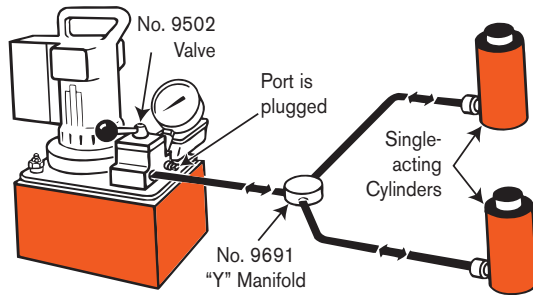


This catalog reflects our most used products.
Please refer to our full line catalog for the complete range.

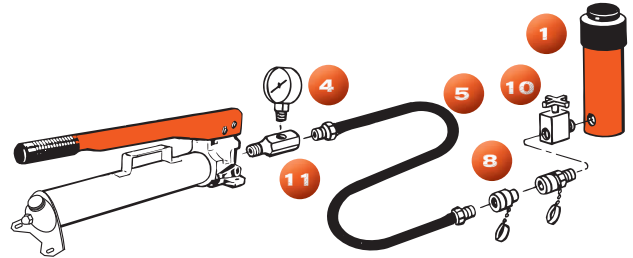
Hydraulic circuits- Pumps, Cylinders, Controls

1

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

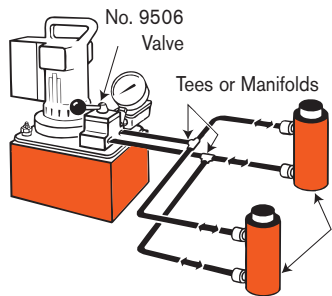


Basic single-acting system with a hand pump, gauge, hose and single-acting cylinder.

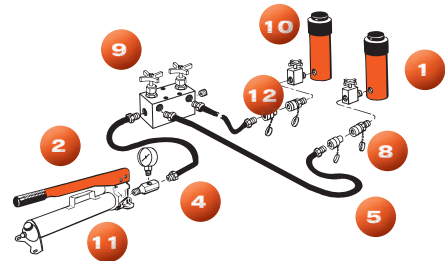


2

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

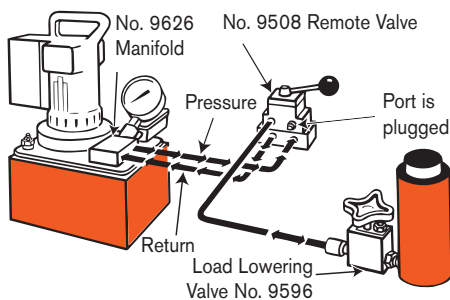


Basic single-acting system with a hand pump, gauge, hose, multiple shut-off valves, load lowering valves and multiple cylinders.



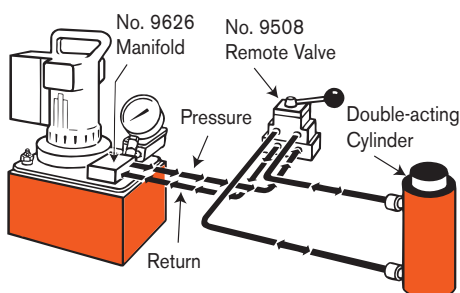
3

Single-acting cylinder controlled by a remote mounted valve.



4

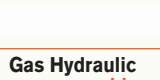
Double-acting cylinders controlled by a remote mounted valve.



- 1 Cylinder – applies hydraulic force.
- 2 Pump – a device for converting mechanical energy to fluid energy.
- 4 Gauge – measures bar pressure and/or force.
- 5 Hose – transports hydraulic fluid.
- 8 Quick Coupling – “hose half” and “cylinder half” couplings are used for quick connection and fluid flow check when separated. (No. 9796 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. 9687)

Selection Chart

Choose the right pump: This chart helps you calculating the time required for a cylinder to lift a load when powered by a 700 bar Power Team pump. For the hand pumps the number indicates the number of strokes to extend 25 mm. For the electric/air/gas pumps the number indicates the number of seconds to extend 25 mm.

		Cylinder Capacity (Tons)																
		STAGE	5	10	15	20	25	30	55	75	100	150	200	300	400	500		
Hand Pumps *   	P12	Single	14	32	44	65	72	93										
	P55	Single	6	14	19	28	31	40	71									
	P19/	Low	4	8	10	15	17	21										
	P19L	High	13	30	42	59	68	86										
	P59F	Low	1,8	4,1	5,7	8	9	12	20	29								
		High	8	17	24	34	48	50	85	122								
	P59(L)	Low	1,5	3,2	4,7	7	7,7	9,7	16,7	23,9								
	P157	High	6	14	19	28	31	40	71	101								
	P159	Low	0,5	1	1,3	1,9	2,2	2,8	5	7	9	13	18					
	P300	High	7	15	21	30	34	43	77	110	143	200	250					
	P460	Low	0,1	0,3	0,6	0,6	0,7	0,9	1,5	2,2	2,8	4,2	5,6	8,4	11,2			
		High	3,3	7,7	9	14	17,5	22	37	55	71	105	143	213	284			
Electric Hydraulic Pumps **           	PE10	Low	0,5	1,2	1,6	2,2	2,6	3,2	5,5									
		High	6	13,4	18,9	27	31	39	66,2									
	PE17	Low	0,2	0,5	0,7	0,9	1,1	1,4	2,3	3,3	4,3	6,5	8,7					
		High	3,5	7,9	10,9	16	18	23	39	56,3	73	109	146					
	PE18	Low	0,4	0,8	1,2	1,6	1,8	2,3	3,9	5,7	7,3	10,8	14,6	21,9	29,2			
		High	3,3	7,5	10,3	15	17	21	37	53	69	102	136	207	276			
	PE21	Low	0,2	0,5	0,7	1	1,1	1,4	2,5	3,6	4,6	6,8	9,2	13,8	18,4			
		High	2,8	6,4	9	13	15	19	32	45,5	59	88	118	177	236			
	PED25	Low	0,2	0,4	0,6	0,9	1	1,3	2,2	3,2	4,1	6,1	8,3	12	15,7	19,9		
		High	2,4	5,4	7,5	10,6	12,4	15,6	26,5	38,2	49,5	73,6	99,1	144,3	188,5	238,6		
	PE30	Low	0,2	0,45	0,6	0,9	1	1,3	2,2	3,2	4,1	6						
		High	2	4,5	6	9	10	13	22	32	41	60						
	PE46	Low	0,1	0,3	0,4	0,5	0,6	0,7	1,3	1,8	2,4	3,5	4,7	7,2	9,6			
		High	1,3	2,9	4,1	5,9	6,8	8,6	14	22	28	42	56	84	112			
	PE55/	Low	0,1	0,2	0,3	0,4	0,4	0,6	0,9	1,4	1,8	2,6	3,5	5,4	7,2			
	PE60	High	1,1	2,4	3,4	4,8	5,6	7,1	12	17,8	23	34	45	69	92			
	PQ60	Low	0,1	0,2	0,3	0,4	0,4	0,5	0,9	1,3	1,7	2,5	3,4	5,1	6,8	8,5		
		High	1	2,2	3,3	4,4	5,2	6,5	11	16,2	21	31	41	63	84	105		
Air Hydraulic Pumps **    	PA6/	Single	10	22,4	31	44,4	51,3	65,2	-	-	-	-	-					
	PA9	Single	10	22,4	31	44,4	51,3	65,2	-	-	-	-	-					
	PA17	Low	0,2	0,5	0,7	0,9	1,1	1,4	2,3	3,3	4,3	6,5	8,7	-	-			
		High	3,5	7,9	10,9	16	18	23	39	56	73	109	146					
	PA46	Low	0,1	0,3	0,4	0,5	0,6	0,7	1,3	2	2,4	3,5	4,7	7,2	9,6			
		High	1,3	2,9	4,1	5,9	6,8	8,6	14	22	28	42	56	84	112			
	PA55	Low	0,1	0,3	0,4	0,6	0,7	0,9	1,5	2,2	2,8	4,1	5,5	8,4	11,2			
		High	1,1	2,4	3,4	4,8	5,6	7,1	12	18	23	34	45	69	92			
Gas Hydraulic Pumps **  	PG30	Low	0,3	0,7	1	1,3	1,6	2	3,3	4,8	6,2	9,3	12,4	18,1	-			
		High	2	4,5	6,3	8,9	10,3	13	22	31,8	41,3	61,4	83	121	-			
	PG55	Low	0,1	0,3	0,4	0,6	0,7	0,8	1,4	2	2,6	3,9	5,2	7,6	9,9	12,5		
		High	1,1	2,5	3,5	4,9	5,6	7,1	12,1	17,3	22,5	33,5	45	66	86	109		
	PG120	Low	0,1	0,3	0,4	0,6	0,7	0,8	1,4	2	2,6	3,9	5,2	7,6	9,9	12,5		
		High	0,5	1	1,5	2	2,4	3	5,1	7,3	9,5	14,2	19,1	27,8	36,3	46		
	PG400	Low	0,1	0,1	0,2	0,2	0,3	0,3	0,6	0,8	1	1,5	2	3	3,8	4,9		
		High	0,2	0,3	0,5	0,7	0,8	1	1,7	2,4	3,1	4,6	6,2	9	11,8	15		

 - Generally Recommended
 - Marginal Check
 - Not Recommended for most applications
 Speed * number of strokes to extend 25 mm
 ** number of seconds to extend 25 mm

Selection Chart - Choose the right cylinder

Retracted									Retracted								
SA or DA Tons	Stroke mm.	Height mm.	Type of return	Base Mount. Duty	Collar hole	Thread	Order No.		SA or DA Tons	Stroke mm.	Height mm.	Type of return	Base Mount. Duty	Collar hole	Thread	Order No.	
2		127	233		High	-	✓	RP25	30		54	187		High	-	-	RA302
5 pull		139,7	302		High	-	✓	RP55			104,8	238		High	-	-	RA304
5		25,4	111		High	✓	✓	C51C			155,6	289		High	-	-	RA306
		82,6	165		High	✓	✓	C53C			257,2	438		High	-	✓	RH3010
		133,4	216		High	✓	✓	C55C			63,5	159		High	✓	✓	RH302
		133,4	267		High	-	✓	C55CBT			76,2	179		High	✓	-	RH303
		184,2	273		High	✓	✓	C57C			152,4	248		High	✓	✓	RH306
		235	324		High	✓	✓	C59C			152,4	281		High	✓	-	RH306D
		14,3	41		High	✓	-	RLS50			149,2	283		High	-	-	RHA306
10		257,2	349		High	✓	✓	C1010C		12,7	59		High	✓	-	RLS300	
		257,2	394		High	-	✓	C1010CBT		61,9	117		High	-	-	RSS302	
		308	400		High	✓	✓	C1012C		63,5	214		High	✓	-	RT302	
		358,8	451		High	✓	✓	C1014C		76,2	181		High	✓	✓	RH503	
		25,4	92		High	✓	✓	C101C		15,9	67		High	✓	-	RLS500S	
		54	121		High	✓	✓	C102C		60,3	127		High	-	-	RSS502	
		104,8	172		High	✓	✓	C104C		76,2	268		High	✓	-	RT503	
		155,6	248		High	✓	✓	C106C		260,4	384		High	✓	✓	C5510C	
		155,6	292		High	-	✓	C106CBT		336,6	460		High	✓	✓	C5513C	
		206,4	299		High	✓	✓	C108C		50,8	175		High	✓	✓	C552C	
12		254	391		High	✓	✓	RD1010		108	232		High	✓	✓	C554C	
		158,8	297		High	✓	✓	RD106		158,8	283		High	✓	✓	C556C	
		63,5	133		High	✓	-	RH102		254	329	Load	-	-	-	R5510C	
		203,2	287		High	✓	-	RH108		254	365	Load	-	-	-	R5510L	
		11,1	45		High	✓	-	RLS100		50,8	125	Load	-	-	-	R552C	
		38,1	89		High	-	-	RSS101		50,8	162	Load	-	-	-	R552L	
		7,9	56		High	✓	✓	RH120		152,4	264	Load	-	-	-	R556C	
		41,3	122		High	-	✓	RH121		152,4	321	Load	-	-	-	R556L	
		41,3	122		High	-	✓	RH121T		254	384		High	✓	-	RA5510	
		76,2	184		High	-	✓	RH123		54	171		High	-	-	RA552	
15		257,2	373		High	✓	✓	C1510C		104,8	222		High	-	-	RA554	
		308	424		High	✓	✓	C1512C		155,6	273		High	✓	-	RA556	
		358,8	475		High	✓	✓	C1514C		155,6	318		High	-	-	RA556L	
		406,4	522		High	✓	✓	C1516C		50	125	Load	High	-	-	RC0552P	
		25,4	124		High	✓	✓	C151C		333,4	504		High	✓	✓	RD5513	
		54	149		High	✓	✓	C152C		463,6	657		High	✓	✓	RD5518	
		104,8	200		High	✓	✓	C154C		158,8	329		High	✓	✓	RD556	
		155,6	271		High	✓	✓	C156C		257,2	459		High	-	✓	RH6010	
		206,4	322		High	✓	✓	C158C		76,2	235		High	✓	✓	RH603	
17,5		50,8	175		High	✓	-	RT172	60		127	241		High	✓	-	RH605
20		54	162		High	-	-	RA202			152,4	318		High	✓	✓	RH606
		104,8	213		High	-	-	RA204			101,6	241		High	✓	-	RHA604D
		155,6	264		High	-	-	RA206			333,4	492		High	-	✓	C7513C
		50,8	156		High	✓	✓	RH202			155,6	314		High	-	✓	C756C
		76,2	154		High	✓	-	RH203			15,9	79		High	✓	-	RLS750S
		152,4	308		High	✓	✓	RH206			333,4	518		High	✓	✓	RD8013
		11,1	51		High	✓	-	RLS200	80		260,4	429		High	-	✓	C10010C
25		44,5	95		High	-	-	RSS202			50,8	219		High	-	✓	C1002C
		260,4	375														

Tons	SA or DA action	Retracted Stroke mm.	Height mm.	Type of return	Base Mount. Duty	Collar hole	Thread	Order No.
100		158,8	340	Load	High	-	-	RA1006L
		45	137	Load	High	-	-	RC1002P
		333,4	515	Load	High	✓	✓	RD10013
		511,2	718	Load	High	✓	✓	RD10020
		168,3	350	Load	High	✓	✓	RD1006
		38,1	165	Load	High	-	-	RH1001
		260,4	503	Load	High	-	✓	RH10010
		76,2	254	Load	High	-	-	RH1003
		152,4	314	Load	High	✓	-	RH1006
		15,9	86	Load	High	✓	-	RLS1000S
		57,2	140	Load	High	-	-	RSS1002
		38,1	144	Load	High	-	-	RSS1002D
150		123,8	384	Load	High	✓	-	RT1004
		254	365	Load	-	-	-	R15010C
		254	392	Load	-	-	-	R15010D
		254	410	Load	-	-	-	R15010L
		50,8	162	Load	-	-	-	R1502C
		50,8	189	Load	-	-	-	R1502D
		50,8	206	Load	-	-	-	R1502L
		152,4	264	Load	-	-	-	R1506C
		152,4	291	Load	-	-	-	R1506D
		152,4	308	Load	-	-	-	R1506L
		333,4	543	Load	High	✓	✓	RD15013
		460,4	674	Load	High	✓	✓	RD15018
200		168,3	378	Load	High	✓	✓	RD1506
		127	308	Load	High	-	-	RH1505
		203,2	349	Load	High	-	-	RH1508
		14,3	102	Load	High	✓	-	RLS1500S
		45	148	Load	High	-	-	RC1552P
		254	394	Load	-	-	-	R20010C
		254	410	Load	-	-	-	R20010D
		254	445	Load	-	-	-	R20010L
		50,8	191	Load	-	-	-	R2002C
		50,8	207	Load	-	-	-	R2002D
		50,8	241	Load	-	-	-	R2002L
		152,4	292	Load	-	-	-	R2006C
250		152,4	308	Load	-	-	-	R2006D
		152,4	343	Load	-	-	-	R2006L
		333,4	572	Load	High	✓	✓	RD20013
		460,4	724	Load	High	✓	✓	RD20018
		168,3	406	Load	High	✓	✓	RD2006
		203,2	408	Load	High	✓	-	RH2008
		45	155	Load	High	-	-	RC2402P
		76,2	290	Load	High	-	-	RSS2503
		254	394	Load	-	-	-	R28010C
		254	437	Load	-	-	-	R28010D
		254	451	Load	-	-	-	R28010L
		50,8	191	Load	-	-	-	R2802C
280		50,8	234	Load	-	-	-	R2802D
		50,8	248	Load	-	-	-	R2802L
		152,4	292	Load	-	-	-	R2806C
		152,4	335	Load	-	-	-	R2806D
		152,4	349	Load	-	-	-	R2806L
		330,2	617	Load	High	✓	✓	RD30013
		152,4	439	Load	High	✓	✓	RD3006
		254	435	Load	-	-	-	R35510C
		254	550	Load	-	-	-	R35510D
		254	495	Load	-	-	-	R35510L
		50,8	232	Load	-	-	-	R3552C

Tons	SA or DA action	Retracted Stroke mm.	Height mm.	Type of return	Base Mount. Duty	Collar hole	Thread	Order No.
355		50,8	290	Load	-	-	-	R3552D
		50,8	292	Load	-	-	-	R3552L
		152,4	333	Load	-	-	-	R3556C
		152,4	448	Load	-	-	-	R3556D
		152,4	394	Load	-	-	-	R3556L
		45	178	Load	High	-	-	RC3802P
		330,2	651	Load	High	✓	✓	RD40013
		152,4	473	Load	High	✓	✓	RD4006
		254	467	Load	-	-	-	R43010C
		254	516	Load	-	-	-	R43010D
		254	537	Load	-	-	-	R43010L
		50,8	264	Load	-	-	-	R4302C
430		50,8	313	Load	-	-	-	R4302D
		50,8	333	Load	-	-	-	R4302L
		152,4	365	Load	-	-	-	R4306C
		152,4	413	Load	-	-	-	R4306D
		152,4	435	Load	-	-	-	R4306L
		330,2	677	Load	High	✓	✓	RD50013
		152,4	499	Load	High	✓	✓	RD5006
		254	495	Load	-	-	-	R56510C
		254	548	Load	-	-	-	R56510D
		254	575	Load	-	-	-	R56510L
		50,8	292	Load	-	-	-	R5652C
		50,8	345	Load	-	-	-	R5652D
565		50,8	371	Load	-	-	-	R5652L
		152,4	394	Load	-	-	-	R5656C
		152,4	447	Load	-	-	-	R5656D
		152,4	473	Load	-	-	-	R5656L
		45	192	Load	High	-	-	RC6202P
		250	465	Load	-	-	-	RC74010C
		250	508	Load	High	-	-	RC74010D
		250	595	Load	High	-	-	RC74010L
		50	265	Load	-	-	-	RC7402C
		50	283	Load	High	-	-	RC7402D
		50	395	Load	High	-	-	RC7402L
		150	365	Load	-	-	-	RC7406C
740		150	398	Load	High	-	-	RC7406D
		150	495	Load	High	-	-	RC7406L
		250	390	Load	-	-	-	RC96510C
		250	530	Load	High	-	-	RC96510D
		250	635	Load	High	-	-	RC96510L
		50	290	Load	-	-	-	RC9652C
		50	310	Load	High	-	-	RC9652D
		50	455	Load	High	-	-	RC9652L
		150	390	Load	-	-	-	RC9656C
		150	420	Load	High	-	-	RC9656D
		150	555	Load	High	-	-	RC9656L
		250	615	Load	-	-	-	RC122010C
1220		250	550	Load	High	-	-	RC122010D
		250	698	Load	High	-	-	RC122010L
		50	415	Load	-	-	-	RC12202C
		50	330	Load	High	-	-	RC12202D
		50	443	Load	High	-	-	RC12202L
		150	440	Load	-	-	-	RC12206C
		150	440	Load	High	-	-	RC12206D
		150	598	Load	High	-	-	RC12206L



Single Action
Double Action



Spring Return
Hydraulic Return



WHAT TYPE OF CYLINDER DO YOU NEED

1. To determine a cylinder's force capacity:

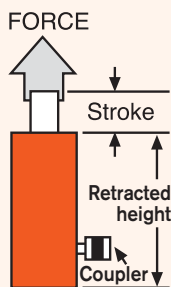
$$\text{Force kg} \times \text{Cylinder Effective Area (cm}^2\text{)} = \text{Bar from Pump}$$

2. To determine oil capacity of a cylinder:

$$\text{Oil Capacity (cm}^3\text{)} \times \text{Cylinder Effective Area (cm}^2\text{)} = \text{Cylinder Stroke (cm)}$$

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

$$\text{Usable Oil} \times \text{Oil Cap. of Cyl. (cm}^3\text{)} = \text{Number of Cyl. in System}$$



Note: For double-acting cylinders, oil in rod end of cylinder must be subtracted to determine capacity.

Low profile [RLS-series]

Single-acting | Spring-return

Can fit into extremely small spaces

- A female half coupler is standard with each cylinder
- Unique heavy duty spring provides fast piston return



Force tons	Stroke mm.	Order No.	Oil Cap cc.	Retracted Height mm.	Weight kg.
5	14,3	RLS50	10	41,3	1,0
10	11,1	RLS100	17	44,5	1,5
20	11,1	RLS200	33	50,8	2,5
30	12,7	RLS300	53	58,7	3,9
50	15,9	RLS500S	99	66,7	6,3
75	15,9	RLS750S	163	79,4	10,6
100	15,9	RLS1000S	202	85,7	13,6
150	14,3	RLS1500S	282	101,6	23,6

Shorty Cylinders [RSS-series]

Single-acting | Spring-return

Restricted space for cylinder

- Grooved piston top keeps load from sliding
- Cylinder can be "dead-ended" at full capacity



Force tons	Stroke mm.	Order No.	Oil Cap cc.	Retracted Height mm.	Weight kg.
10	38,1	RSS101	56	88,9	2,7
20	44,5	RSS202	126	95,3	4,5
30	61,9	RSS302	259	117,5	6,7
50	60,3	RSS502	374	127,0	10,5
100	57,2	RSS1002	725	139,7	21,4
100	38,1	RSS1002D	482	144,5	24,7
250	76,2	RSS2503	2.469	290,5	99,7

General Purpose [C-series]

Single-acting | Spring-return

Heavy duty lifting or pushing

- Chrome plated piston rod resists wear and corrosion
- Solid steel cylinder body for durability



Force tons	Stroke mm.	Order No.	Oil Cap cc.	Retracted Height mm.	Weight kg.
5	25,4	C51C	18	110,3	1,0
5	82,6	C53C	52	165,1	1,5
5	133,4	C55C	85	215,9	1,8
5	184,2	C57C	118	273,1	2,3
5	235,0	C59C	151	323,9	2,6
10	25,4	C101C	36	92,1	1,8
10	54,0	C102C	79	120,7	2,3
10	104,8	C104C	151	171,5	3,0
10	156,6	C106C	225	247,7	4,3
10	206,4	C108C	362	298,5	5,0
10	257,2	C1010C	370	349,3	5,9
10	308,0	C1012C	444	400,1	6,6
10	358,8	C1014C	518	450,9	7,3
10	406,4	C1016C	592	520,7	8,4
15	25,4	C151C	51	123,8	3,4
15	54,0	C152C	110	149,2	4,0
15	104,8	C154C	211	200,0	5,2
15	155,6	C156C	315	271,4	6,9
15	206,4	C158C	418	322,2	8,1
15	257,2	C1510C	521	373,0	9,4
15	308,0	C1512C	625	423,8	10,5
15	358,8	C1514C	728	474,6	11,8
15	406,4	C1516C	824	522,3	12,8
25	25,4	C251C	84	139,7	5,4
25	50,8	C252C	169	165,1	6,3
25	101,6	C254C	338	215,9	8,0
25	158,8	C256C	528	273,1	9,8
25	209,6	C258C	697	323,9	11,6
25	260,4	C2510C	865	374,4	13,3
25	311,2	C2512C	1.036	425,5	15,0
25	362,0	C2514C	1.205	476,3	16,7
55	50,8	C552C	362	174,6	14,7
55	108,0	C554C	769	231,8	18,7
55	158,8	C556C	1.131	282,6	23,1
55	260,4	C5510C	1.853	384,2	30,4
55	336,6	C5513C	2.398	460,4	35,3
75	155,6	C756C	1.596	314,3	33,3
75	333,4	C7513C	3.421	492,1	49,6
100	50,8	C1002C	675	219,1	28,5
100	168,3	C1006C	2.245	336,6	41,2
100	260,4	C10010C	3.467	428,6	51,2

Center Hole [RH-series]

Single-acting | Spring-return

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

- All cylinders except RH120 are furnished with female half coupler



Force tons	Stroke mm.	Order No.	Oil Cap cc.	Centre Hole mm.	Retracted Height mm.	Weight kg.
10	63,5	RH102	91	19,4	134,9	4,1
10	203,2	RH108	290	19,4	287,3	8,5
12	7,9	RH120	14	17,5	55,6	1,4
12	41,3	RH121	74	20,2	122,2	3,0
12	41,3	RH121T	74	17,5	122,2	3,0
12	76,2	RH123	136	20,6	184,2	4,0
20	50,8	RH202	155	27,4	155,6	7,3
20	76,2	RH203	193	26,6	154,0	9,1
20	152,4	RH206	465	27,4	308,0	13,7
30	63,5	RH302	260	32,9	158,8	11,6
30	149,2	RHA306	625	32,5	283,4	9,9
30	152,4	RH306	625	32,5	247,7	17,7
50	76,2	RH503	534	42,5	181,0	21,2
60	76,2	RH603	607	54,0	235,0	27,2
60	152,4	RH606	1.211	54,0	311,2	35,4
100	76,2	RH1003	1.014	79,4	254,0	52,2

High Tonnage [R..C-series]

Single-acting | Load return

Push, Press for lowcycle application

- Low-cycle, gravity return
- Alloy heat treated piston and body for reliability and strength



Force tons	Stroke mm.	Order No.	Oil Cap cc.	Retracted Height mm.	Weight kg.
55	51	R552C	362	125,4	12,3
55	152	R556C	1.087	227,0	22,7
55	254	R5510C	1.811	328,6	32,7
100	51	R1002C	677	139,7	23,6
100	152	R1006C	2.030	241,3	40,4
150	51	R1502C	1.007	161,9	41,8
150	152	R1506C	3.019	263,5	68,6
150	254	R15010C	5.032	365,1	95,3
200	51	R2002C	1.355	190,5	65,8
200	152	R2006C	4.062	292,1	100,3
280	51	R2802C	1.861	190,5	91,6
280	152	R2806C	5.583	292,1	136,7
355	51	R3552C	2.326	231,8	137,1
355	152	R3556C	6.975	233,4	197,0
355	254	R35510C	11.624	435,0	256,5
430	51	R4302C	2.841	263,5	199,8
430	152	R4306C	8.520	365,1	276,5
565	51	R5652C	3.710	292,1	289,7
565	152	R5656C	11.129	393,7	389,5
565	254	R56510C	18.548	495,3	489,4

Aluminum [RA-series]

Single-acting | Spring return

For jacking and other non-production operations

- Half the weight of steel cylinders
- Aluminum body resists sparking in explosive environments



Force tons	Stroke mm.	Order No.	Oil Cap cc.	Retracted Height mm.	Weight kg.
20	54,0	RA202	154	161,9	3,5
20	104,8	RA204	300	212,7	4,2
20	155,6	RA206	445	263,5	5,1
30	54,0	RA302	226	187,3	5,0
30	104,8	RA304	439	238,1	5,9
30	155,6	RA306	652	288,9	6,8
55	54,0	RA552	386	171,5	7,3
55	104,8	RA554	746	222,3	8,9
55	155,6	RA556	1.109	273,1	10,9
55	254,0	RA5510	1.811	384,2	14,4
100	54,0	RA1002	718	196,9	15,1
100	158,8	RA1006	2.116	298,5	22,6

High Tonnage [RC..C-series]

Single-acting | Load return

Push, Press and Lift

- Low cycle, gravity return
- Overflow port prevents piston from being overextended under load
- Alloy heat treated piston and body for reliability and strength



Force tons	Stroke mm.	Order No.	Oil Cap cc.	Retracted Height mm.	Weight kg.
740	50	RC7402C	4.811	265	300
740	150	RC7406C	14.132	365	416
740	250	RC74010C	24.053	465	530
965	50	RC9652C	6.283	290	423
965	150	RC9656C	18.850	390	577
965	250	RC96510C	31.416	490	725
1220	50	RC12202C	7.952	415	766
1220	150	RC12206C	23.856	440	960
1220	250	RC122010C	39.761	615	1147



This catalog reflects our most used products.
Please refer to our full line catalog for the complete range.

Locking Collar [R..L-series]

Single-acting | Load return

Push, mechanical load holding

- Positive mechanical lock to support load
- Support lifted load for extended periods of time with hydraulic pressure released



Force tons	Stroke mm.	Order No.	Oil Cap cc.	Retracted Height mm.	Weight kg.
55	50,8	R552L	362	161,9	15,3
55	152,4	R556L	1.087	263,5	26,3
55	254,8	R5510L	1.811	365,1	36,3
100	50,8	R1002L	677	184,2	30,0
100	152,4	R1006L	2.030	285,8	46,8
100	254,8	R10010L	3.383	387,4	64,5
150	50,8	R1502L	1.007	206,4	53,0
150	152,4	R1506L	3.019	308,9	80,4
200	254,8	R2002L	1.355	241,3	83,1
200	50,8	R2006L	4.062	342,9	117,6
280	152,4	R2802L	1.861	247,7	118,5
280	254,8	R2806L	5.583	349,3	163,0
280	50,8	R28010L	9.305	450,9	208,1
355	152,4	R3552L	2.326	292,1	173,0
355	254,8	R3556L	6.975	393,7	232,5
430	50,8	R4302L	2.841	333,4	252,4
430	152,4	R4306L	8.520	435,0	329,2
430	254,8	R4310L	14.201	536,6	405,9
565	50,8	R5652L	3.710	371,2	368,2
565	152,4	R5656L	11.129	473,1	468,0
565	254,8	R56510L	18.548	574,7	568,0

Locking Collar [RC..L-series]

Single-acting | Load return

Push, mechanical load holding

- Positive mechanical lock to support load



Force tons	Stroke mm.	Order No.	Oil Cap cc.	Retracted Height mm.	Weight kg.
740	50	RC7402L	4.811	395	545
740	150	RC7406L	14.432	495	683
740	250	RC74010L	24.053	595	821
965	50	RC9652L	6.280	455	714
965	150	RC9656L	18.849	555	990
965	250	RC96510L	31.400	635	1.170
1220	50	RC12202L	7.949	443	969
1220	150	RC12206L	23.857	598	1.310
1220	250	RC122010L	39.741	698	1.530



Locking Collar [RA..L-series]

Single-acting | Spring return

When portability is a key factor

- Half the weight of steel cylinders
- Support lifted load for extended periods of time with hydraulic pressure released



Force tons	Stroke mm.	Order No.	Oil Cap cc.	Retracted Height mm.	Weight kg.
55	155,5	RA556L	1.109	317,5	13,4
100	158,8	RA1006L	2.116	339,7	29,1

Swivel Caps [For use with cylinders]

Reduce the effect of off center loading

- Tilts up to 5 degrees
- Radial grooves on top of cap reduce load slippage



For use with cylinders	Order No.	Force tons	Weight kg.
RC740*C + RC965*C	2000824	740-965	72
RC1220*C + ..D + ..L	2000825	1220	113
RC740*D	2000822	740	19
RC965*D	2000823	965	40
RC740*L + RC965*L	2000824	740-965	72
RL*	420866	55-100	1
RC* + RL*	420867	150-200	4
RC* + RL*	420868	280	6
RC* + RL*	420869	355	17
RC* + RL*	420870	435	24
RC* + RL*	420871	565	35



Pancake Locking Collar

[PLC-series]

Single-acting | Load return

For use where space is limited

- Support lifted load for extended periods of time with hydraulic pressure released
- Overflow port prevents piston from being overextended under load

Force tons	Stroke mm.	Order No.	Oil Cap cc.	Retracted Height mm.	Weight kg.
67	51	PLC672	435	125.7	15
110	51	PLC1102	745	137.7	22
180	51	PLC1802	1,176	153.8	44
220	51	PLC2202	1,447	160.6	57
280	51	PL28022	1,856	164.8	75
430	45	PLC4302	2,513	183.9	134
565	45	PLC5652	3,282	197.9	189



Power Team gives museum project a lift

Challenge:

To lower the basement floor by 1.4 meters, removing the basement walls to open up space for the new facilities and street-level entrance and with control and maximum flexibility for a very restricted budget.

Solution:

Using several Power Team hand pumps and sets of cylinders that would be spread out along each beam. Cylinders were selected that could fit in the very tight gaps available to accommodate the lifting equipment



High Tonnage [R..D-series]

Double-acting | Hydraulic return

Push - Pull, Press for low-cycle application

- Built-in safety relief valve prevents over-pressurization of the retract circuit



Force tons	Stroke mm.	Order No.	Oil Cap cc.	Centre Hole mm.	Retracted Height mm.	Weight kg.
100	50,8	R1002D	676	315	168,7	24,5
100	152,4	R1006D	2.027	945	270,3	36,8
100	254,0	R10010D	3.378	1.574	371,9	49,0
150	50,8	R1502D	1.007	485	188,9	43,1
150	152,4	R1506D	3.021	1.456	290,5	61,7
200	50,8	R2002D	1.355	643	206,8	61,7
200	152,4	R2006D	4.064	1.929	308,4	84,9
200	254,0	R20010D	6.773	3.214	410,0	108,5
280	51,8	R2802D	1.861	774	233,8	99,4
280	152,4	R2806D	5.579	2.322	335,4	134,8
280	254,0	R28010D	9.299	3.870	437,0	170,7
355	50,8	R3552D	2.326	777	288,9	147,0
355	152,4	R3556D	6.977	2.332	390,5	191,1
430	50,8	R4302D	2.840	977	312,7	199,3
430	152,4	R4306D	8.521	2.932	414,3	253,3
430	254,0	R43010D	14.202	4.887	515,9	305,5
565	50,8	R5652D	3.710	1.260	345,3	281,0
565	152,4	R5656D	11.129	3.779	446,9	350,4
565	254,0	R56510D	18.548	6.298	548,5	420,4

Center Hole [RH-series]

Double-acting

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

- Built-in safety feature prevents overpressurization of the retract circuit



Force tons	Stroke mm.	Order No.	Oil Cap cc.	Centre Hole mm.	Retracted Height mm.	Weight kg.
30 (15)	76,2	RH303	122	32,5	179,4	13,5
30 (15)	152,4	RH306D	247	32,5	281,0	20,4
30 (20)	257,2	RH3010	410	33,3	438,2	27,7
60 (25)	101,6	RHA604D	469	54,0	241,3	16,2
60 (25)	127,0	RH605	586	54,0	241,3	33,1
60 (40)	257,2	RH6010	754	54,4	458,8	54,5
100 (45)	38,1	RH1001	293	79,8	165,1	38,6
100 (50)	152,4	RH1006	895	52,4	314,3	43,1
100 (45)	257,2	RH10010	1996	79,8	495,3	109,0
150 (70)	127,0	RH1501	1268	65,1	311,2	67,2
150 (75)	203,2	RH1508	1843	80,2	349,3	103,1
200 (75)	203,2	RH2008	3214	103,2	408,0	142,0

High Tonnage [RD-series]

Double-acting | Hydraulic return

Push - Pull, Press for high-cycle application

- Grooved ring pattern in load cap helps guard against load slippage



Force tons Push	Stroke mm.	Order No.	Oil Cap cc. Push	Retracted Height mm.	Weight kg.
10	4	RD106	228	90	296,9
10	4	RD1010	366	144	398,5
25	8	RD256	528	166	314,3
25	8	RD2514	1.205	376	517,5
55	28	RD556	1.132	577	329,4
55	28	RD5513	2.376	1.212	504,0
55	28	RD5518	3.280	1.673	657,2
80	44	RD8013	3.421	1.901	517,5
100	44	RD1006	2.242	959	350,0
100	44	RD10013	4.440	1.902	5151
100	44	RD10020	6.809	2.919	718,3
150	73	RD1506	3.334	1.606	377,8
150	73	RD15013	6.604	3.180	542,9
150	73	RD15018	9.132	4.392	673,9
200	113	RD2006	4.485	2.457	406,4
200	113	RD20013	8.886	4.869	571,5
200	113	RD20018	12.270	6.722	723,9
300	147	RD3006	5.920	2.903	488,9
300	147	RD30013	12.825	6.281	630,2
400	186	RD4006	7.724	4.051	489,7
400	186	RD40013	16.744	8.790	667,5
500	245	RD5006	9.774	4.838	522,3
500	245	RD50013	21.189	10.480	700,1

High Tonnage [RC..D-series]

Double-acting | Hydraulic return

Push - Pull and Press

- Cylinders come standard with hardened caps



Force tons	Stroke mm.	Order No.	Oil Cap cc.	Retracted Height mm.	Weight kg.
740	50	RC7402D	4.811	283	304
740	150	RC7406D	14.132	398	398
740	250	RC74010D	24.053	508	490
965	50	RC9652D	6.283	310	434
965	150	RC9656D	18.850	420	551
965	250	RC96510D	31.416	530	668
1220	50	RC12202D	7.952	330	584
1220	150	RC12206D	23.856	440	731
1220	250	RC122010D	39.761	550	878

Hand Pumps [P-series]

Single-speed / Two-speed

Lightweight and steel design

- All pumps are fitted with internal relief valves
- All metal construction won't burn though in welding environments



Cyl. Type	Oil Cap cc.	Speed	Order No.	Volume/stroke Low	High	Weight kg.
Single-acting	148	1	P12		1,1	2,6
	328	2	P19	5	1,2	3,0
	443	2	P19L	4,1	0,9	2,3
	738	1	P55		2,6	7,2
	738	2	P59	10,9	2,6	7,8
	1082	2	P59L	12	2,6	4,1
	2245	2	P157	10,7	2,6	11,8
	2245	2	P159	42,6	2,6	11,8
	5081	2	P300	42,6	2,6	25,1
	7539	2	P460	120,5	4,6	24,9
Foot Pump	738	2	P59F	9,0	2,1	6,4
Double-acting	2245	2	P157D	10,7	2,6	13,1
	2245	2	P159D	42,6	2,6	12,7
	5081	2	P300D	42,6	2,6	25,9
	7539	2	P460D	120,5	4,6	26,3

Air Pumps [PA6/PA9-series]

Single-acting / Double-acting

Compact, lightweight and portable

- Air supply 3-8 bar
- Easier to operate than a hand pump, giving you the speed you need at an affordable price



Cyl. Type	Oil lit.	Control	Order No.	Tank	Weight kg.
Single-acting	0,5	Foot	PA9	Aluminum	6,8
	0,5	Hand	PA9H	Aluminum	6,8
	1,6	Foot	PA6	Polyethylene	6,3
	1,6	Remote	PA6R	Polyethylene	9,3
	1,6	Remote	PA6RM	Metal	9,8
	7,3	Foot	PA6-2	Polyethylene	11,1
	1,6	Foot	PA6M	Metal	8,2
	3,0	Foot	PA6M-1	Metal	10,7
	9,1	Foot	PA6M-2	Metal	14,5
	1,6	Manual	PA6D	Polyethylene	8,3
	1,6	Manual	PA6DM	Metal	9,2
	3,0	Manual	PA6DM-1	Metal	12,7
Double-acting	7,3	Manual	PA6D-2	Polyethylene	13,0
	9,1	Manual	PA6DM-2	Metal	16,4

Gasoline Pumps [PG30/55/120-ser.]

Gasoline driven

Ideal for remote locations

- A logical choice at work sites where electricity or compressed air are unavailable
- Larger reservoirs available



Cyl. Type	Usable lit.	Kw.	Order No.	Control Valve	Weight kg.
Single-acting	6	1,15	PG303	Adv-Hold Return	14,5
	20,8	4,5	PG553	Adv-Hold Return	54,5
	20,8	4,10	PG1203	Adv-Hold Return	70,0
Double-acting	6	1,5	PG304	Adv-Hold Return	14,5
	20,8	4,5	PG554	Adv-Hold Return	54,5
	20,8	4,1	PG1204	Adv-Hold Return	70,0

Air Pumps [PA17/46/55-series]

Two speed

Use where air is preferred source of energy

- Rotart-style air motor



Cyl. type	Usable lit.	Order No	Control valve	Weight kg.
Single-acting	4,7	PA172	Adv. Return	18,1
	9,5	PA462	Adv-Hold Return	27,2
Single/Double-acting	4,7	PA174	Adv-Hold Return	18,6
	9,5	PA464	Adv-Hold Return	27,6
	9,5	PA464R	Adv-Hold Return	35,3
	9,5	PA464RA	Auto Dump	35,8
	9,5	PA554	Adv-Hold Return	32,0

For use with single acting cylinders 

For use with double acting cylinders 

Electric/Battery Pump [PR10-series] Two speed

High performance in compact package

- Portable power source for hydraulic cylinders and tools
- Models have 2,4m power cord with alligator clips to connect to any 12 volt battery



1st l./min.	2nd l./min.	Oil Cap. liters	12V DC-uni Function	Tank	Order No.	Kg incl. oil
1.9	0.2	1	Autodump	Poly	PR102A	9
1.9	0.2	1	Adv-Hold Return	Poly	PR102	9
3.9	0.3	5	Adv-Hold Return	Poly	PE172DC	23

1st l./min.	2nd l./min.	Oil Cap. liters	Contr.	Function	Tank	Order No.	Kg incl. oil
1.9	0.2	1	Man.	Adv-Hold Return	Poly	PR104	9
3.9	0.3	5	Man.	Adv-Hold Return	Poly	PE174DC	23

Electric Pump [PE17-series] Two speed

For maintenance and construction applications

- Extremely quiet noise level (67-81 sBA)
- For maintenance and construction applications

1st l./min.	2nd l./min.	Oil Cap. liters	Contr.	Function	Tank	Order No.	Kg incl. oil
3.9	0.2	6	Man.	Autom. Return	Metal	PE172AM-E220	24
3.9	0.2	5	Man.	Autom. Return	Poly	PE172A-E220	20
3.9	0.2	6	Man.	Adv-Hold Return	Metal	PE172M-E220	24
3.9	0.2	5	Man.	Adv-Hold Return	Poly	PE172-E220	20
3.9	0.2	6	Sol.	Adv-Hold Return	Metal	PE172SM-E220	24
3.9	0.2	5	Sol.	Adv-Hold Return	Poly	PE172S-E220	20



1st l./min.	2nd l./min.	Oil Cap. liters	Contr.	Function	Tank	Order No.	Kg incl. oil
3.9	0.2	5	Man.	Adv-Hold Return	Poly	PE174-E220	20
3.9	0.2	6	Man.	Adv-Hold Return	Metal	PE174M-E220	24

Electric Pump [PE30-series] Two speed

Ideal for maintenance and construction applications

- Starts under full load even when voltage is reduced to 50% of nominal rating

1st l./min.	2nd l./min.	Oil Cap. liters	Contr.	Function	Tank	Order No.	Kg incl. oil
5	0.5	3.5	Man.	Auto Dump	Alum	PE302A-E220	19
5	0.5	5.5	Man. Switch	Adv-Hold Return	Alum	PE302-E220	19
5	0.5	3.5	Man. Switch	Adv-Hold Return	Alum	PE303-E220	19
5	0.5	3.5	Man.	Adv-Hold Return	Alum	PE303R-E220	19
5	0.5	3.5	Sol.	Adv-Hold Return	Alum	PE302S-E220	19
5	0.5	3.5	Man.	Adv-Hold Return	Alum	PE302R-E220	19
5	0.5	6	Man.	Adv-Hold Return	Alum	PE303R-2-E220	22
5	0.5	6	Man.	Auto dump	Alum	PE302A-2-E220	22
5	0.5	6	Man. Switch	Adv-Hold Return	Alum	PE302-2-E220	22
5	0.5	6	Man. Switch	Adv-Hold Return	Alum	PE303-2-E220	22
5	0.5	6	Sol.	Adv-Hold Return	Alum	PE302S-2-E220	22



1st l./min.	2nd l./min.	Oil Cap. liters	Contr.	Function	Tank	Order No.	Kg incl. oil
5.0	0.5	3.5	Man.	Adv-Hold Return	Alum	PE304R-E220	19
5.0	0.5	3.5	Man. Switch	Adv-Hold Return	Alum	PE304-E220	19
5.0	0.5	6	Man.	Adv-Hold Return	Alum	PE304R-2-E220	22
5.0	0.5	6	Man. Switch	Adv-Hold Return	Alum	PE304-2-E220	22

For use with single acting cylinders 

For use with double acting cylinders 

Electric Pump [PE46-series] Two speed

Ideal for indoor maintenance and production applications

- 24 volt control circuit on all units with remote control
- Best suited for indoor maintenance and production applications



1st l./min.	2nd l./min.	Oil Cap. liters	Contr.	Function	Tank	Order No.	Kg incl. oil
6.7	0.6	9.5	Man.	Adv-Hold Return	Metal	PE462-E220	36
6.7	0.6	9.5	Sol.	Adv-Hold Return	Metal	PE462S-E220	36
6.7	0.6	9.5	Man.	Auto dump	Metal	PE462A-E220	36

1st l./min.	2nd l./min.	Oil Cap. liters	Contr.	Function	Tank	Order No.	Kg incl. oil
6.7	0.6	10	Man.	Adv-Hold Return	Metal	PE464-E220	36
6.7	0.6	10	Sol.	Adv-Hold Return	Metal	PE464S-E220	36

Electric Pump [PE55-series] Two speed

Heavy duty multiple-applications pump

- Heavy construction and concrete stressing
- Low voltage starting possible



1st l./min.	2nd l./min.	Oil Cap. liters	Contr.	Function	Tank	Order No.	Kg incl. oil
11.3	0.9	8.5	Man.	Adv-Hold Return	Metal	PE552-E220	30
11.3	0.9	8.5	Man.	Auto dump	Metal	PE552A-E220	30
11.3	0.9	8.5	Man.	Adv-Hold Return	Metal	PE553-E220	30
11.3	0.9	8.5	Sol.	Adv-Hold Return	Metal	PE552S-E220	30

1st l./min.	2nd l./min.	Oil Cap. liters	Contr.	Function	Tank	Order No.	Kg incl. oil
11.3	0.9	9	Man.	Adv-Hold Return	Metal	PE554-E220	30
11.3	0.9	9	Sol.	Adv-Hold Return	Metal	PE554S-E220	30

Electric Pump [PQ120-series] Up to 400 ton 1,6 l/min

Ideal for press operation

- Low speed, high torque pump designed specifically for heavy duty, extended cycle operation, ideal for pressing



1st l./min.	2nd l./min.	Oil Cap. liters	Contr.	Function	Tank	Order No.	Kg incl. oil
9.7	1.6	20	Man.	Adv-Hold Return	Metal	PQ1203-E380	75
9.7	1.6	20	Sol.	Adv-Hold Return	Metal	PQ1203S-E380	75

1st l./min.	2nd l./min.	Oil Cap. liters	Contr.	Function	Tank	Order No.	Kg incl. oil
9.7	1.6	20	Man.	Adv-Hold Return	Metal	PQ1204-E380	75
9.7	1.6	20	Sol.	Adv-Hold Return	Metal	PQ1204S-E380	75

Electric Pump [PE400-series]

Two speed / up to 1000 ton 5,6 l/min

Single or multiple cylinder applications

- Low noise level of 73-80 dBA



1st l./min.	2nd l./min.	Oil Cap. liters	Contr.	Function	Tank	Order No.	Kg incl. oil
16	5.6	63	Man.	Adv-Hold Return	Metal	PE4004-E380	223
16	5.6	63	Sol.	Adv-Hold Return	Metal	PE4004S-E380	230





Hydraulic Spreaders

Spring-return | Retract automatically

Use to lift machines or as a clamp

- It is a hydraulic pry bar
- Spread concrete forms or rebar or perform straightening jobs



Capacity tons	Order No.	Min. Clearance Required mm.	Max. Spread mm.	Oil cc.	Weight kg.
1 ton	HS2000	14,2	101	4	2,2
1,5 ton	HS3000	30,2	292	20	10

Pipe Flange

Hydraulic Spreaders

No more "hammer and chisel" methods

- Flange spreaders should be used in pairs to provide an even spreading force



Capacity tons	Order No.	Standard Wedge Type	Weight kg.
5	HFS3A	60° Sharp	4,1
10	HFS6A	60° Sharp	8,2

Nut splitter

Single-acting | Spring-return

Removal of seized and corroded nuts

- Specially designed tool steel cutter blade penetrates the nut to the precise point where it cracks, stopping short of the bolt threads



Capacity tons	Order No.		Class			
			#5	#9	#10	#12
15 ton	HNS150	Bolt Size Max	24	24	22	19
		Nut Thickness	32	21	26	19
	HNS150A	Bolt Size Max	24	24	22	19
		Nut Thickness	24	21	26	19
25 ton	HNS225	Bolt Size Max	36	36	30	29
		Nut Thickness	34	30	25	21

Hydraulic Tester

Measure oil flow, pressure and temperature

Tests pump condition without removing pump from system. Max. 350 bar

- Temperature and flow readings are in metric and english, accurate to within $\pm 2\%$ of full scale.
- Automatic pressure compensating feature lets you increase flow without affecting pressure setting



Order No.	Max Flow l./Min.	Flow Range l./Min.	Pressure Max	Weight kg.
HT50A	200	20-200	345	16,8
HT75	300	50-300	345	8,6
HT200	750	100-750	345	13,6

Inflatable Jacks

The Load Lifting Alternative

Ideal for structure moving, rescue work, lifting round tanks, maintaining pipelines and countless other tasks.

- Large surface area and material flexibility allow jacks to lift loads on soft or compressible surfaces without support cribbing being necessary



Lifting Cap. tons	Lifting Height mm.	Order No.	Air Contents at 8 bar l.	Max. Working Pressure bar	Length mm.	Width mm.	Collapsed Height mm.	Weight kg.
1,1	70	IJ13	2,3	8	140	130	25,4	0,5
3,6	120	IJ45	14,4	8	255	200	25,4	1,2
7	160	IJ76	42	8	305	305	25,4	1,9
12	225	IJ128	97	8	400	400	25,4	3,6
23,8	304	IJ2211	268	8	550	550	25,4	7,3
34	360	IJ3213	463	8	650	650	25,4	9,9
46,3	418	IJ4416	729	8	750	750	25,4	13,1
74,6	520	IJ7320	1.457	8	950	950	30,4	26,3

Hoses

Polyurethane | Rubber

4:1 safety factor | 2:1 safety factor

- All have plastic hose guards except for the 1/4" I.D. polyurethane hoses which have spring guards
- 3/8" NPTF fittings on both ends
- Other hose lengths available



Gauges

Analog

- Gauges feature an easily readable and highly visible, red day-glo needle
- High strength steel bourdon tube ensures high cycle life



Hose I.D.	Length	Poly Order No.	Rubber Order No.
6,4 mm	0,6 m	9765-P	-
6,4 mm	0,9 m	9755-P	-
6,4 mm	1,8 m	9756-P	-
6,4 mm	2,4 m	9757-P	-
6,4 mm	3,1 m	9758-P	-
6,4 mm	3,7 m	9759-P	-
6,4 mm	6,1 m	9760-P	-
9,5 mm High Flow	1,8 m	9780	9776
9,5 mm High Flow	3,1 m	9781	9777
9,5 mm High Flow	6,1 m	9782	9778
9,5 mm High Flow	15,3 m	9759	9735

Face Dia. Graduations	Bar	Use with Cylinder Series	Gauge No.
63,5 mm	0-700	All	9040
100 mm	0-700	All	9052
Tons			
100 mm	0-17,5, 0-30 and 0-50	RT172, RT302, RT503	9059
100 mm	0-5	C & RL	9053
100 mm	0-10	C, RD, RH, RLS & RSS	9055
100 mm	0-25	C & R	9063
100 mm	0-30	RH, RLS & RSS	9065
100 mm	0-50	RH†, RLS & RSS	9067
100 mm	0-55	C, R, RA & RD	9069
100 mm	0-60	RH	9071
100 mm	0-75	C, RLS & RD8013	9073
100 mm	0-100	C, R, RA, RD, RH, RLS, RSS & RT1004	9075
100 mm	0-150	C, R, RD & RLS	9077
100 mm	0-200	R, RD & R	9079

Couplers

Standard & Flush-Face

- Complete quick coupler, 3/8" NPTF (includes two 9800 dust caps)
Order No. 9795



- Male (hose) half coupler, 3/8" NPTF
Order No. 9798



- Female (cylinder) half coupler with No. 9800 dust cap, 3/8" NPTF
Order No. 9796



Fluids for high pressure

Standard, Flame Out, Biodegradable and Low Temp

- Prevents pump cavitation, additives prevent rust, oxidation and sludge



Oil Description	Quantity	Order No.
Standard Oil	0,9 l	9636
Standard Oil	3,8 l	9637
Standard Oil	9,5 l	9638
Standard Oil	208 l	9616
Flame-Out®	3,8 l	9639
Flame-Out®	9,5 l	9640
Biodegradable	3,8 l	9645
Biodegradable	9,5 l	9646
Low Temp.	3,8 l	9647



Manifolds

Remote and Pump mounted

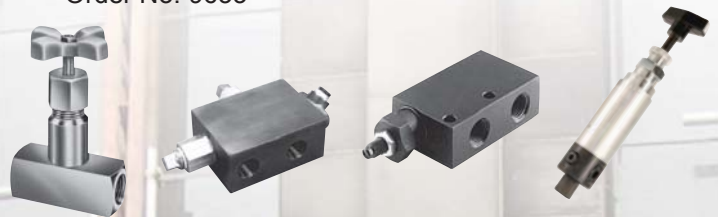
- **Manifold with two needle valves for control of two cylinders, has four 3/8" NPTF ports**
Order No. 9642
- **Manifold with four needle valves for control of four cylinders, has six 3/8" NPTF ports**
Order No. 9644



Valves

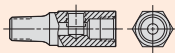
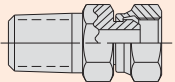
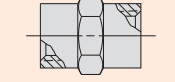
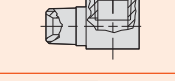
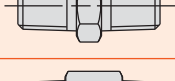
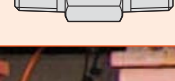
All valves are painted, coated or plated for corrosion resistance

- **Shut off valve with 3/8" NPTF ports**
Order No. 9575
- **Pilot operated check valve with 3/8" NPTF ports**
Order No. 9581
- **Pressure relief valve with 3/8" NPTF ports**
Order No. 9623
- **In-line pressure regulator valve with two 3/8" NPTF inlet ports, one 1/8" NPTF tank port and 1m drain line kit**
Order No. 9633



Fittings

For all applications

Order No.		
9670		Tee adapter 1/4" and 3/8" NPTF female and 3/8" NPTF male ports
9675		Swivel connector 3/8" NPTF male, 3/8" NPSM female
9678		45° fitting 1/4" NPTF male and female ends
9680		Coupling both ends 3/8" NPTF female
9681		Street elbow 3/8" NPTF male and female ends
9682		Male connector 3/8" NPTF male ends
9683		Male connector 3/8" NPTF male ends



Sidewinder Jacks

Mini Jacks

Compact, fits in your palm

- The perfect addition to any toolbox, this remarkable little jack has multiple uses that are limited only by your imagination
- Use it as a jack or a spreader, and use it vertically or horizontally in limited clearance



Force tons	Stroke mm.	Order No.	Retracted height min. mm.	Metric tons at 700 bar	Weight kg.
5	19	9105A	63,5	4,5	1,9
5	38	9205A	88,9	4,5	2,4
10	30	9210A	120,7	9,1	5,5
20	30	9220A	130,2	18,1	8,0

Portable High Tonnage Jacks

High Tonnage Jack [RJ Series]

100T with 686mm stroke

- Powered by the ever reliable PA55 Series air pump
- 100T Double Acting Cylinder with 686mm stroke
- 7.5m remote pendant control increases operator safety
- Robust design with sturdy large wheels enable easy manoeuvrability



Force tons	Cylinder Stroke mm.	Order No.	Retracted Height min. mm.	Weight kg.
100 (92 Metric Ton)	686	RJ100T37A	940	286

Portable Jacks

High Tonnage Jack [JAR Series]

Portable & Compact, ideal for locomotive/railcar, mining and heavy equipment maintenance

- Five tonnage capacity options - 55T, 100T, 150T, 200T & 300T
- Three collapsed height options - 660mm, 383mm & 1,143mm
- Modular Design - pump and cart separate from cylinder and base
- Remote operation for maximum operator safety - choose "motor only" or "motor and valve" control in the hand
- Cribbing blocks available



Hydraulic Presses

All presses available in CE

Application: Maintenance workshop, factory, school, test lab, etc.

- Type: Bench, floor and C-frame



Tons	Model	Pump Type	Cylinder Type	Order No.	Weight kg.	Pump Code
10 tons	Bench	Hand	Single-acting	SPM1010	41	P55
	Floor	Air	Single-acting	SP1010A	78	PA9
	Floor	Electric	Single-acting	SPE1010-E220	79	PE172-E220
	Floor	Hand	Single-acting	SPH1010	77	P55
	Floor	Electric	Double-acting	SPE1010D-E220	87	PE174-E220
25 tons	Bench	Hand	Single-acting	SPM256C	109	P59
	Floor	Air	Single-acting	SPA256	197	PA6
	Floor	Electric	Single-acting	SPE256-E220	210	PE172-E220
	Floor	Hand	Single-acting	SPM256	205	P59
	Floor	Air	Single-acting	SPA2514	310	PA6
	Floor	Hand	Single-acting	SPM2514	315	P159
	Floor	Electric	Single-acting	SPE2514-E220	300	PE172-E220
	Floor	Electric+Sol Valve	Single-acting	SPE2514S-E220	345	PE172S-E220
	Floor	Electric	Double-acting	SPE2514DS-E220	360	PE174S-E220
55 tons	Floor	Air	Single-acting	SPA556	320	PA6
	Floor	Hand	Single-acting	SPM556	325	P159
	Floor	Electric	Single-acting	SPE556-E220	333	PE172-E220
	Floor	Hand	Single-acting	SPM5513	435	P460
	Floor	Electric	Single-acting	SPE5513-E220	444	PE172-E220
	Floor	Electric+Sol Valve	Single-acting	SPE5513S-E220	480	PE172S-E220
	Floor	Electric	Double-acting	SPE5513D-E220	450	PE174-E220
	Floor	Electric+Sol Valve	Double-acting	SPE5513DS-E220	505	PE554S-E220
100 tons	Floor	Hand	Single-acting	SPM10010	770	P460
	Floor	Electric	Single-acting	SPE10010-E220	813	PE552-E220
	Floor	Electric	Single-acting	SPE10010R-E220	766	PE172-E220
	Floor	Electric	Double-acting	SPE10013DS	854	PQ1204S-E380

PLC Synchronised Lift & Lowering System

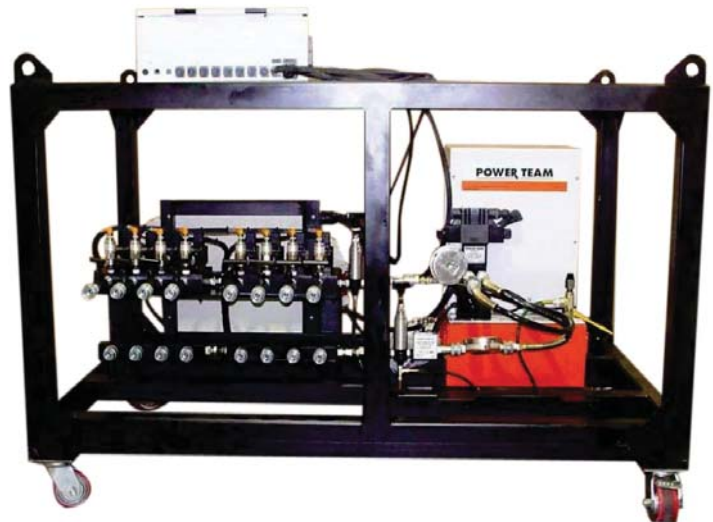
- For precise controlled hydraulic movement and weighing of Oil Rig Platforms, Heavy Structures, Vessels & Machineries etc.
 - It uses feedback from multiple sensors to control lifting, lowering and positioning of any large, heavy or complex structure regardless of weight distribution.
 - Synchronous lifting reduces the risk of bending, twisting or tilting due to uneven weight distribution or load-shifts between the lift points.
 - Programmable, failsafe monitoring & safety alarms of system include operating parameters, such as displacement accuracy, lifting velocity, valve response errors.
- (Optional: Data logging, load tilting, remote/online system troubleshooting)

Features

- Computerized PLC System c/w Touch Screen Panel
- Control from 4 to 60 Jacking Points
- 10 to 1000 Ton on each Jacking Point
- Precision Accuracy at +/- 1mm full scale
- Pressure / Load Display on Control Panel
- Displacement Display on Control Panel
- Linkage to Data Logger and Printer
- Standard Hydraulic Components
- System incorporates emergency alarms with auto-stop features

Options

- Basic System with Analogue Gauge
- Heat Exchanger for continuous operation
- Available up to 80 jacking points on request



PLC Controller

Safety First

Proper training is needed to operate and maintain hydraulic equipment with safety and efficiency. Power Team offers classes to help you safely operate and maintain your tools.

Safety Seminar

Workplace safety should be a high priority to assure high pressure hydraulic tools are used in accordance with recommended safety procedures. Power Team safety training seminars demonstrate the proper methods for operating high pressure hydraulic tools to avoid equipment damage and lost time accidents. Safety seminars can be conducted at the customer facility, the job site or at one of the SPX Hydraulic Technologies facilities.



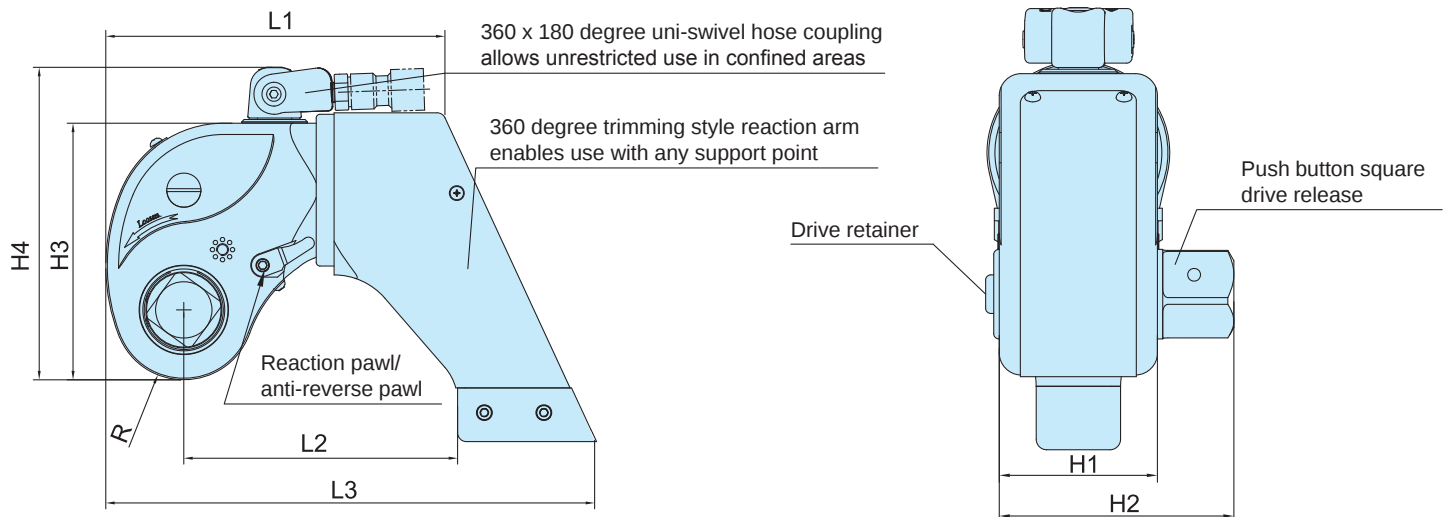
Safety First

PTSD - Square Drive Hydraulic Torque Wrench

- ProTorc PTSD Hydraulic Square Drive Torque Wrenches are manufactured using high grade aluminium-titanium alloy and high strength alloy steel
- High repeatability can be achieved due to the precise design with an accuracy of +/- 3%
- The 360 x 180 degree uni-swivel hose coupling enables the tool to be used unrestricted in confined areas and eliminates hose kinking
- Torsion resistant housing and torsion free operation
- 360 degree positioning of reaction arm
- Anti-reverse pawl design
- Two Year Manufacturers Warranty *



		PTSD02	PTSD05	PTSD08	PTSD10	PTSD16	PTSD20	PTSD28	PTSD36	PTSD50	PTSD70
Max. Torque	Nm	1760	4332	7420	10430	15090	19409	26447	34626	47414	69247
	ft/lbs	1299	3197	5476	7697	11137	14324	19518	25554	34992	51105
Min. Torque	Nm	164	433	742	1015	1509	1940	2504	3309	4741	6925
	ft/lbs	121	320	548	749	1114	1432	1848	2442	3499	5111
Sqr. Drive		3/4"	1"	1 - 1/2"	1 - 1/2"	1 - 1/2"	2 - 1/2"	2 - 1/2"	2 - 1/2"	2 - 1/2"	2 - 1/2"
L1 (mm)		130	170	202	228	237	273	287	323	351	376
L2 (mm)		102	140	160	184	192	223	248	256	271	295
L3 (mm)		182	249	286	326	336	391	433	464	494	528
H1 (mm)		52	70	81	90	100	110	120	138	153	162
H2 (mm)		77	98	125	134	144	164	187	206	217	226
H3 (mm)		96	127	149	172	181	206	221	258	279	291
H4 (mm)		133	165	184	207	216	241	256	293	315	326
R (mm)		25.8	34.8	39.8	46.8	50.8	56.8	59.8	70.8	76.8	78.8
Weight (kg)		2	4	7	10.6	12.9	20	25	33.8	43	52



* Conditions apply - contact your distributor for more information

PTSD - Accessories

Hydraulic Torque Wrench Sockets

- Manufactured from high strength alloy steel in accordance with DIN Standards 3121 and 3129
- Machined from solid steel and hardened with heat treatment ensuring durability and longevity
- Non-standard socket sizes available upon request - contact ProTorc.
- 3/4" to 2 1/2" Sockets Available



Hex Drives

- Designed specifically for use with ProTorc PTSD Hydraulic Wrenches
- Manufactured from high strength hardened steel
- Comply with DIN Standard 3121 and 3129



Reaction Arms



ALCO Extension Arms



Square Drive Reaction Arms



Square Drive Reaction Sleeve with Foot



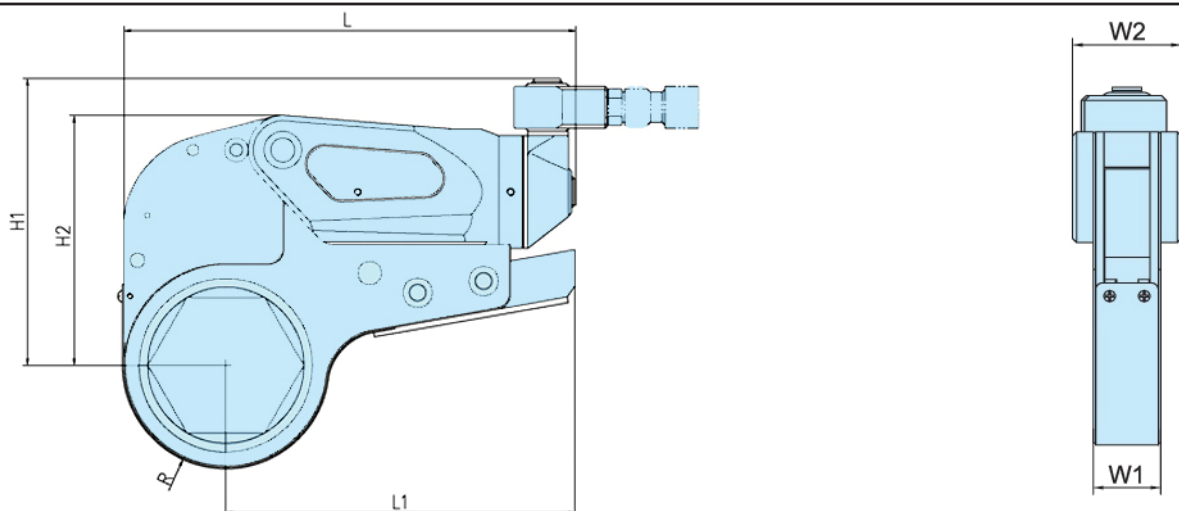
PTLC - Low Clearance Hydraulic Torque Wrench

- ProTorc PTLC Low Clearance Hydraulic Torque Wrenches are manufactured using high grade aluminium-titanium alloy and high strength alloy
- Equipped with a 360 x 270 degree uni-swivel coupling eradicating hose kinking
- The tools ultra-thin profile and light weight enables it to be used in confined areas where access may be restricted
- Required torque is maintained due to the anti-reverse pawl design which prevents the ratchet returning
- Torsion resistant housing and torsion free operation
- Quick-Torc lever design enables rapid cycle
- User friendly design enables fast switching of cassette links
- Two Year Manufacturers Warranty *



		PTLC02	PTLC05	PTLC10	PTLC20	PTLC25	PTLC40
Max. Torque	Nm	2534	5392	10452	16245	22899	40639
	ft/lbs	1870	3979	7714	11989	16900	29992
Min. Torque	Nm	244	489	1017	1724	2247	4064
	ft/lbs	180	361	751	1272	1658	2999
Hex Size (mm)		27 - 50	27 - 65	50 - 90	85 - 115	95 - 135	100 - 155
Power Head		PTLCH02	PTLCH05	PTLCH10	PTLCH20	PTLCH25	PTLCH40
Link Part No.		PTLCL02-***	PTLCL05-***	PTLCL10-***	PTLCL20-***	PTLCL25-***	PTLCL40-***
L (mm)		205	251.3	302.5	367	400.5	457.5
L1 (mm)		147	188	233	283	308	364
H1 (mm)		129	163	191	223	246	282
H2 (mm)		100	136	166.5	198	224	265
W1 (mm)		32	41	53	64	70	84
W2 (mm)		50	66	83	99	110	132
R (mm)		41.3	53.8	68.8	85.3	98.8	115.8
Weight (kg)		2.2	5	9.6	16.9	22.9	38

*** Contact your distributor for more information on Hex Links & Reducers



* Conditions apply - contact your distributor for more information

PTLC - Accessories

Hydraulic Torque Wrench Hex Links & Reducers

- Manufactured from high strength alloy steel
- Reducers comply with DIN Standard 3121 and 3129
- Please contact ProTorc for availability of custom and non-standard reducers



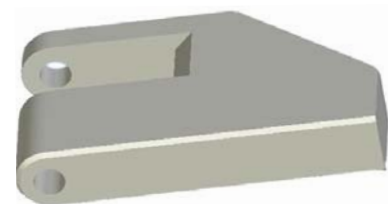
Reaction Arms



Low Clearance Extended Reaction Arms



Low Clearance Reaction Pad



Hydraulic Torque Wrench Pumps - Electric & Air

Power Team Electric Pump - **TWP55-50-220-01**



- Two speed high performance electric pump - 220V, 50Hz
- External adjustable pressure regulator
- Retractable side internal relief valve protects tool
- Hand Remote with 3m cord
- Suitable for use with single or double acting tools
- Four tool manifold option available
- Roll cage available
- NATA traceable and certified gauges available

Power Team Air Pump - **RWP55**

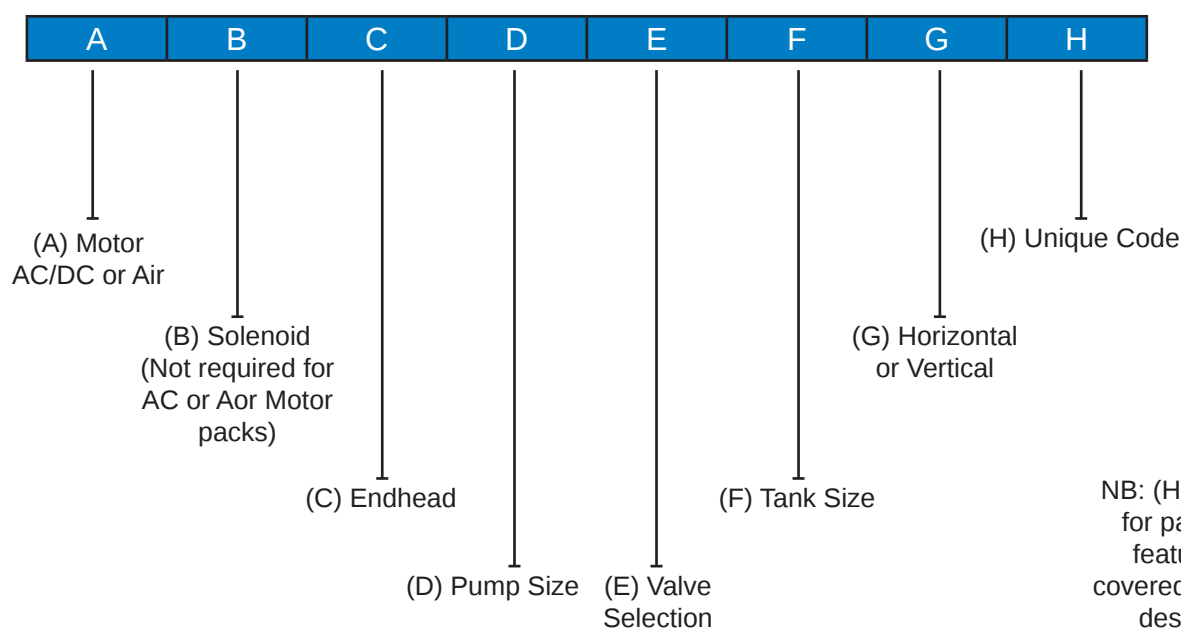


- Powerful 2.2Kw motor starts under load
- External adjustable pressure regulator
- Retractable side internal relief valve protects tool
- Suitable for use with single and double acting tools
- Safe to use in hazardous or explosive environments
- Four tool manifold option available
- Filter Regulator/ Lubricators available
- Available with NATA traceable and certified gauges
- Roll cage available

Twin Line 700 Bar Hydraulic Hose (TWH20-VIC)

- 1/4" high pressure polyurethane hydraulic hose with polyimide core reinforced by two spiral layers and two open spiral layers of high tensile steel
- 4:1 Safety Factor
- 20' (6m) length as standard - custom lengths available upon request
- Fitted with zinc plated 1/4" NPT Male & Female couplings and dust caps
- Equipped with hose guards to increase user safety
- Available with MDG41 compliant burst sleeves (TWH20-VIC-S)



Stone Power Units - Pick-A-Pack**(A) Motors**

- 12/24VDC Motors
- Continuous Permanent Magnet Motors
- 240/415 VAC Motors
- Vane Air Motors

(B) Solenoid

- 12/24V Internal & External Ground
- Heavy Duty

(C) End Head

- Single and Double Acting available

(D) Pumps

- From 0.08cc to 8cc
- Hi-Lo Pump Sets using any combination
- External ported pumps for motor-pump units

(E) Valves

- Simple Lowering Valves
- Solenoid Sandwich valves - Stackable
- Manual Sandwich Valves - Stackable
- Cetop 3 & 5 options

(F) Tanks

- From 2L to 50L capacity
- Plastic or steel
- Vertical or Horizontal orientation (G)
- custom built tanks

(G) Unique Codes

- Suction Filters
- Return Flow Controls
- Relief Valve Spring Selection
- Reversible units
- Wiring Looms, pendants & remote control options
- Valve Adaptor Kits

Stone Basic DC Power Units

PART NO.	VOLTAGE	PUMP (CC)	VALVING	CROSS CONVERSION
DB - 1465	12	2	Release/Check/Release	DC41233 DCE41233
DB - 1466	12	2.5	Release/Check/Release	DC41233 DCE41233
DB - 1467	12	2	Check/Release	DC31233 DCE31233
DB - 1468	12	2.5	Check/Release	DC31233 DCE31233
DB - 1075	24	2	Release/Check/Release	DC42433 DCE42433
DB - 1076	24	2	Check/Release	DC32433 DCE32433
DB - 1077	24	2.5	Check/Release	DC32433 DCE32433
DB - 1078	24	2.5	Release/Check/Release	DC42433 DCE42433



YOULI Valves

Power beyond conversion supplied but not fitted

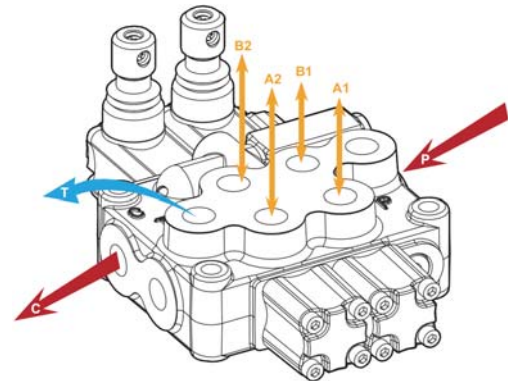
MB3 - Monoblock Valve - 45Lpm - Manual Control

PART NO.	NO. OF SPOOLS	SPOOL TYPE	A, B, T, PB,C PORTS
MB3-1S3-18L-G3	1	All ports closed	3/8 BSPP
MB3-2S3-18L-G3	2	All ports closed	3/8 BSPP
MB3-3S3-18L-G3	3	All ports closed	3/8 BSPP
MB3-4S3-18L-G3	4	All ports closed	3/8 BSPP
MB3-5S3-18L-G3	5	All ports closed	3/8 BSPP
MB3-6S3-18L-G3	6	All ports closed	3/8 BSPP
MB3-1S3-28L-G3	1	A & B to tank	3/8 BSPP
MB3-2S3-28L-G3	2	A & B to tank	3/8 BSPP
MB3-3S3-28L-G3	3	A & B to tank	3/8 BSPP
MB3-4S3-28L-G3	4	A & B to tank	3/8 BSPP
MB3-5S3-28L-G3	5	A & B to tank	3/8 BSPP
MB3-6S3-28L-G3	6	A & B to tank	3/8 BSPP



MB3 - Monoblock Valve Accessories

PART NO.	DESCRIPTION
YLMB44061	Detent Kit
YLMB44091	Spring to Centre Detent Kit
YLMB32100	Relief Blanking Plug
YLMB45002	Joystick
YLMB32003	Relief Valve (63-200 Bar)
YLMB44080	Pneumatic Kit
YLMB33001	No.1 SPOOL - Closed Centre
YLMB33002	No.2 SPOOL - Open Centre
YLMB33003	No. 3 SPOOL - Single Acting



MB5 - Monoblock Valve - 80Lpm - Manual Control

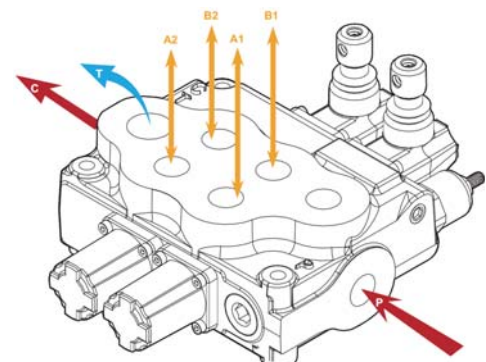
Power beyond conversion supplied but not fitted

PART NO.	NO. OF SPOOLS	SPOOL TYPE	T PORT	A, B, C PORTS
MB5-1S3-18L-G4	1	ALL PORTS CLOSED	3/4 BSPP	1/2 BSPP
MB5-2S3-18L-G4	2	ALL PORTS CLOSED	3/4 BSPP	1/2 BSPP
MB5-3S3-18L-G4	3	ALL PORTS CLOSED	3/4 BSPP	1/2 BSPP
MB5-4S3-18L-G4	4	ALL PORTS CLOSED	3/4 BSPP	1/2 BSPP
MB5-5S3-18L-G4	5	ALL PORTS CLOSED	3/4 BSPP	1/2 BSPP
MB5-6S3-18L-G4	6	ALL PORTS CLOSED	3/4 BSPP	1/2 BSPP
MB5-1S3-28L-G4	1	A & B TO TANK	3/4 BSPP	1/2 BSPP
MB5-2S3-28L-G4	2	A & B TO TANK	3/4 BSPP	1/2 BSPP
MB5-3S3-28L-G4	3	A & B TO TANK	3/4 BSPP	1/2 BSPP
MB5-4S3-28L-G4	4	A & B TO TANK	3/4 BSPP	1/2 BSPP
MB5-5S3-28L-G4	5	A & B TO TANK	3/4 BSPP	1/2 BSPP
MB5-6S3-28L-G4	6	A & B TO TANK	3/4 BSPP	1/2 BSPP



MB5 - Monoblock Valve Accessories

PART NO.	DESCRIPTION
YLMB54061	Detent Kit
YLMB54091	Spring to Centre Detent Kit
YLMB52100	Relief Blanking Plug
YLMB55002	Joystick
YLMB53003	No.1 SPOOL - Closed Centre
YLMB53001	No.2 SPOOL - Open Centre
YLMB53002	No. 3 SPOOL - Single Acting



Directional Control Valves - CETOP 3

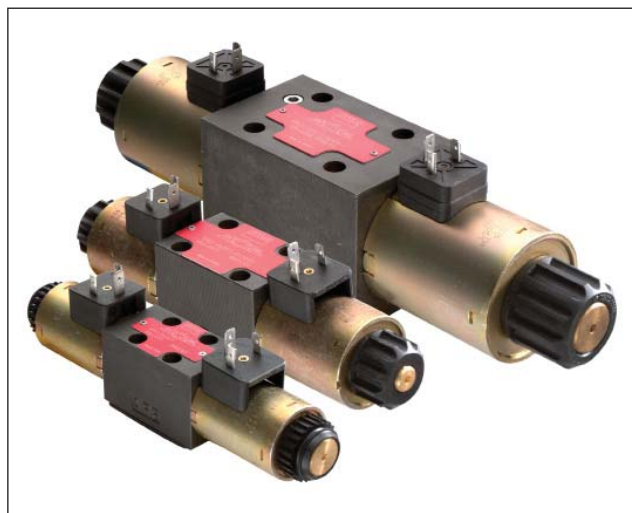
Max Operating Pressure - 320 Bar | Max Flow Rate - 80 L/min

Solenoid DCV

PART NO.	SYMBOL	DESCRIPTION
RPE3-062A51		4W2P
RPE3-062C51		4W2P
RPE3-062R11		4W2P
RPE3-063C11		4W3P
RPE3-063H11		4W3P
RPE3-063Y11		4W3P
RPE3-063Z11		4W3P

Manual DCV

PART NO.	SYMBOL	DESCRIPTION
RPR3-063Z11		4W3P
RPR3-063C11		4W3P
RPR3-063H11		4W3P



Directional Control Valves - CETOP 5

Max Operating Pressure - 320 Bar | Max Flow Rate - 120 L/min

Solenoid DCV

PART NO.	SYMBOL	DESCRIPTION
RPE3-102R11		4W2P
RPE3-103C11		4W3P
RPE3-103H11		4W3P
RPE3-103Y11		4W3P
RPE3-103Z11		4W3P

Proportional DCV available.

Spool Types - Cetop 3 & Cetop 5

Designation	Symbol	Interposition	Designation	Symbol	Interposition
Z11			Z51		
C11			Z71		
H11			Z81		
P11			Z91		
Y11			R31		
L21			H51		
B11			F51		
Y41			Z11		
Z21			X11		
C41			C11		
F11			H11		
R11			K11		
R21			N11		
A51			F11		
P51			X25		
Y51			J15		
C51			J75		

GLOBE Air Motors

AIR MOTOR	FEATURES
Vane Air Motors	- Power from 0.44kW to 9.5kW - Intrinsically Safe - Instantly reversible - Range of mounting options - Robust sturdy design
Radial Piston Air Motors	- Power from 4.7kW, 2.4 HP (RM110) to 23kW, 32HP (RM610) - Intrinsically Safe - Modular motor, brake, gearbox & control valve options - Range of mounting options - Resistant to dirty, damp conditions - with correct FLR
Compact Piston Air Motor	- Power from 110kW to 460kW - Intrinsically Safe - Instantly reversible - High torque at low speed of rotation - Minimal air consumption & quite operation
Geard Vane Air Motor	- Planetary, coaxial, bevel, helical or worm gearbox options - Intrinsically Safe - Pneumatic brake available - Various mounting options - Can be stalled under load without harm
Planetary Geared Vane Air Motor	- Reductions up to $i = 1000:1$ - Intrinsically Safe - Instantly reversible and compact solution - Compact and robust design - Suitable for oilless operation
Compact Vane Air Motors	- Power from 180kW to 1000kW - Intrinsically Safe - Superior power-to-weight ratio - Available in stainless steel - Range of incorporated reduction units available



Globe Air Motors are ideal for winch applications

Low Pressure Hand Pumps - PTHA Hand Pumps

Other configurations available. Contact PTHA | Pump Lever & Tanks sold separately

PART NO.	SYMBOL	DISPLACEMENT CM	WORKING PRES. BAR	MAX PRES. BAR	KG.
PMO50-S		50	220	280	3.4
PM6-S		6	450	500	3
PM25-S		25	280	350	3
PM45-S		45	220	280	3
PM12-BYB-S		12	320	380 (Min. 100)	3
PM45-BYB-S		45	220	280 (Min. 100)	3
PMD12-S		12	320	380	3.4
PMD45-S		45	220	280	3.5
PM2V-5-80-LM-S		5-80	First Stage 20	Scnd. Stage 500	6.2
PMD45-BYB-S		45	220	280	3.5

Steel Tanks

PART NO.	CAPACITY (L)	KG.
S3AC-R	3	3.7
S5AC-R	5	5.3
S7AC-R	7	6.6

Pump Lever

PART NO.	LENGTH (mm)	DIAMETRE (mm)	KG.
L27X600ZB-D	600	27	1



ATO
HYDRAULIC POWER

- YOUR APPLICATION -
- OUR SOLUTION -

Assemble to Order Power Units

- ATEX approved prime mover
- Built to your specifications
- No aluminium content - Safe for underground coal mines
- High impact reinforced polymer return filters
- Air/ manual operated hydraulic valve spools

Standard Components

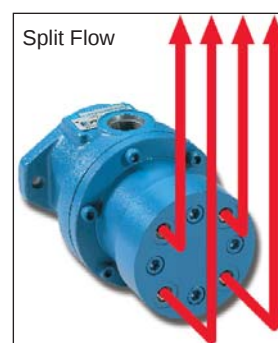
- Gear or Piston Pumps
- Manifolds with up to 6 valves
- Hi-Lo Manifolds
- Pressure gauge
- Test Points
- Filler Breathers
- AC, DC or Air Motor
- Suction Strainer
- Return Filters
- Coolers
- Manual or Solenoid DCV's
- Control Subplates
- Pressure Switches
- Level/ Temp Gauges
- Pendants or Wireless Controllers
- Wiring Looms
- Tanks - 20L to 400L



DYNEX - Hydraulic Pumps, Motors, Valves & Power Units

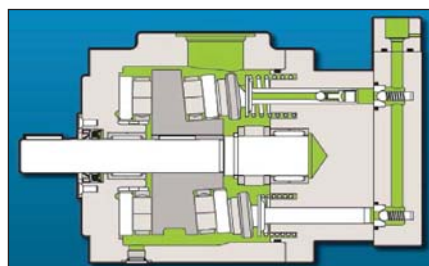
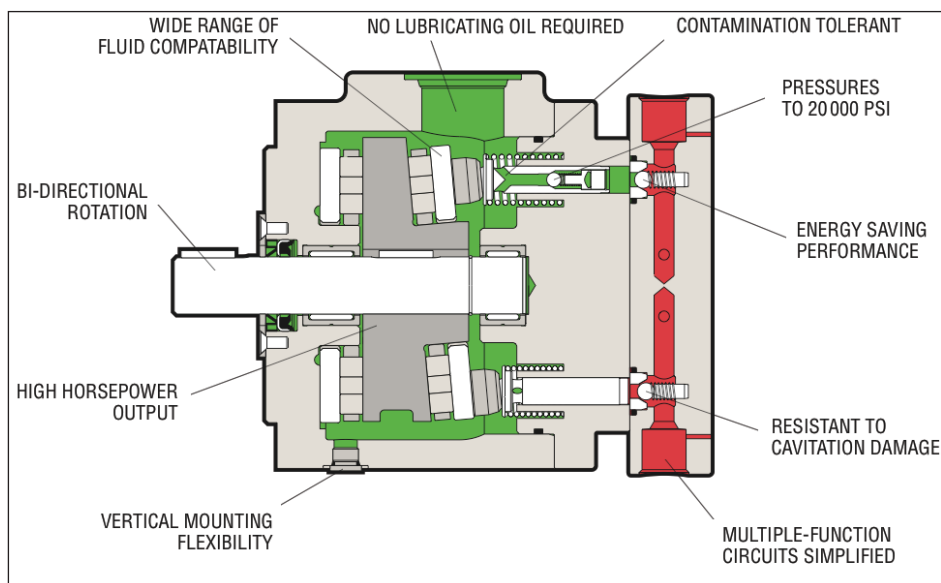
Dynex Products

- **HIGH PRESSURE CHECKBALL PISTON PUMPS**
Piston pumps rated 6000 to 20 000 psi (420 to 1380 bar)
- **PUMPS FOR USE WITH SPECIAL FLUIDS**
Pumps for water glycol, diesel calibration, Skydrol and others
- **SPLIT-FLOW® PUMPS**
Synchronized movement with multiple outputs from one pump
- **DIRECTIONAL CONTROL VALVES**
High pressure valves rated to 10 000 psi (700 bar)
- **PRESSURE CONTROL VALVES**
Manual or proportional pressure regulation to 15 000 psi (1040 bar)
- **HYDRAULIC POWER UNITS AND SYSTEMS**
JIC and NFPA standard or specialized units to 700 hp (520 kW)
- **REMOTE PROPORTIONAL ACTUATORS**
Output rod movement proportional to an electrical input signal
- **VALVEPLATE PUMPS AND MOTORS**
Electrohydraulic pumps for accurate, remote speed control
- **PISTON MOTORS**
Withstand pressure spikes and tough duty to 8000 psi (560 bar)



Benefits of Dynex Checkball Piston Pumps

- Pressures to 20,000 PSI (1380 Bar)
- Multiple Function Circuits simplified e.g., Split Flow
- Compatible with a wide range of fluids
- Tolerant to contamination
- Resistant to cavitation damage
- Bi-directional Rotation



Dynex pumps are single fluid pumps eradicating the need for a lubricator, hence greatly reducing the risk of contamination and maintenance required. If pump contamination occurs, the pump resists failure due to the large flushing path design into pistons and through outlet the check valves.



Dynex Valves

Dynex range of Directional Control Valves provide a combination of high performance, efficiency and reliable operation in demanding applications. Valves options include special CETOP pattern valves along with high pressure spool and sandwich valves. The high pressure HP03 Pattern valves operate at pressure to 10,000PSI - double that of conventional sub plate mounted valves. These compact sliding spool valves provide true four-way control in a simple compact package. A range of actuators, spools, internal operators and electrical options provide design flexibility.

How many times have you been called out to an on-site visit to fault find on a machine?

Ever arrived on site to find there are no test points installed?

How do I check the pressure and flow?

Option 1 - Time consuming, money wasting process...

1. Get permission to stop the machine
2. Perform site LOTO (Lock Out, Tag Out)
3. Remove a piece of steel tube
4. Cut the steel tube
5. Flare the steel tube
6. Clean the steel tube
7. Insert compatible fittings
8. Attach a test point remove LOTO
9. Get permission to start machine
10. Explain to the boss why the job took so long!

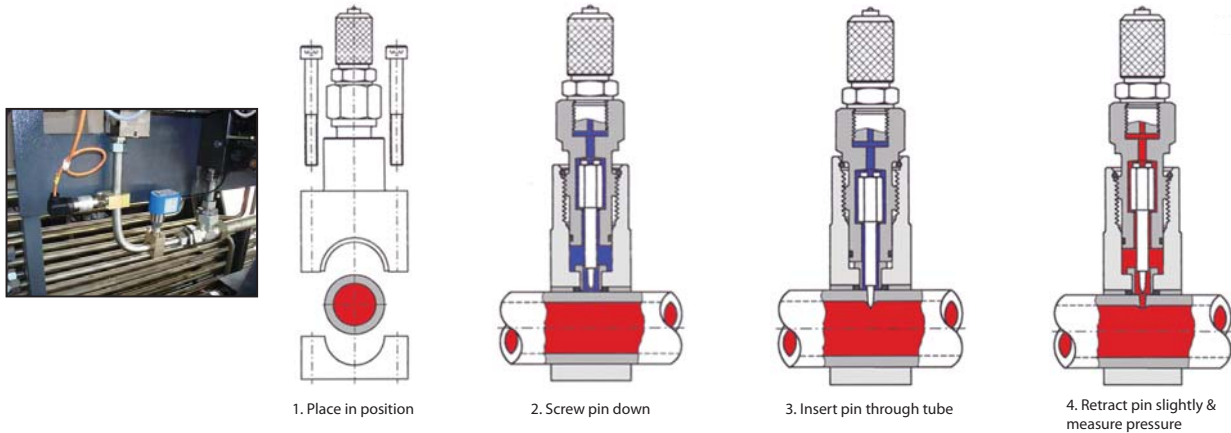


Option 2 -

serv-Clip is the quick, safe and cost effective way to complete maintenance on pressurised and non-pressurised hydraulic systems.

When using Serv-Clip on pressurised tubes, simply screw the clip onto the cleaned surface of the pressurised hydraulic tube. Once the serv-Clip is placed around the hydraulic tube a specially shaped steel needle is inserted through the wall of the tube above the screw head. The screw head is then screwed back slightly revealing a small contained hole allowing the pressure to be analysed immediately whilst not interrupting the operation of the hydraulic system.

This connection is simple, quick, safe to install and does not require any special tools to be completed... nor the lengthy process of option 1!



The system is completely leakproof and the possible contamination of hydraulic fluid by inserting new pipe is eliminated. Once the serv-Clip is installed, it can be left in place for future maintenance without compromising the operational safety or integrity of the hydraulic system.

- Diameters: 10 - 42 mm Pipe / 3/8" - 2" Tube
- Working pressure: 0 to 630 bar (9100 psi)
- Working temperature: -40°C to +120 °C

TEST GAUGE KITS ALSO AVAILABLE



This image shows a full page of blank, lined paper. It features approximately 28 evenly spaced horizontal grey lines across the entire width of the page, providing a guide for handwriting or typing. The background is a solid off-white color.

POWER TEAM[®]

PROTORC 

STONE[®]


GLOBE
AIR MOTORS

ATO
HYDRAULIC POWER

 **DYNEX**
High Pressure Hydraulics

serv-Clip[®]
TUBE MEASURING CONNECTION

DISTRIBUTED BY

 **HydraTorque**

2 Henricks Street P: 07 3390 7188
Po Box 7091 F: 07 3390 6744
Hemmant, Qld 4174 E: sales@hydratorque.com.au