



**SPX POWER TEAM**

# SPECIALISED TOOLS & EQUIPMENT

<b>General Purpose Cylinders</b> .....	246
- Single-Acting, Spring-Return.....	246
<b>Centre Hole Cylinders</b> .....	248
- Double-Acting, Hydraulic-Return.....	248
<b>Double-Acting Cylinders</b> .....	249
- Double-Acting, Hydraulic-Return.....	249
<b>High Tonnage Cylinders</b> .....	250
- Single-Acting, Load-Return.....	250
- Double-Acting, Hydraulic-Return.....	251
<b>Hydraulic Hand Pumps</b> .....	252
- Single-Speed/Single-Acting.....	252
- Two-Speed/Single-Acting.....	253
- Two-Speed/Single & Double-Acting.....	255
<b>Air Hydraulic Pumps</b> .....	256
- Single-Acting.....	256
- Double-Acting.....	257
<b>Electric Hydraulic Pumps</b> .....	258
<b>Hydraulic Cylinders &amp; Pump Sets</b> .....	260

The product information and specifications within this catalogue should be viewed as a guide only and are subject to change without notice. Please refer to inside front cover for further details.



## **GENERAL PURPOSE CYLINDERS**

**SINGLE-ACTING, SPRING-RETURN (5-100 TON CAPACITY)**

Rugged, High Quality All Purpose Cylinder Used for Lifting & Pressing



### **SPX POWER TEAM C Series**

#### **FEATURES:**

- Fully Comply with ASME B30.1 standards. Have a 2 to 1 safety factor on material yield
- Aluminium bronze bearing reduces scoring caused by off-centre loads
- Maximum sized springs speed piston return and increases spring life
- Chrome plated piston rod resists wear and corrosion
- Wide range of accessories available to thread onto piston rod, collar, or into cylinder base. Base mounting holes standard on 5 through 55 ton cylinders; optional on 75 and 100 ton cylinders
- A 9796 3/8" NPTF female half coupler is standard with each cylinder. Oil ports are 3/8" NPTF

# **SPX POWER TEAM.**

**Power Team is a world leader in hydraulic special service tools and equipment for motor vehicles and industrial markets. Power Team manufactures precision quality high-pressure hydraulic products, which includes pumps, cylinders, valves, clamping components and special tools and equipment.**

All Power Team's precision quality products are used wherever strong, concentrated force is required. The markets for Power Team products include manufacturing, construction, motor vehicle, mining, utilities, shipyards, rescue operations and many more.

All Berendsen Fluid Power branches are authorised distributors and service centres of the Power Team product, having at least one person complete the Power Team service training.



## ORDERING INFORMATION:

Order Code	Cyl. Cap. (tons)	Stroke (mm)	Oil Cap. (cu. cm)	Bore Dia. (mm)	Cyl. Effective Area (sq. cm)	Internal Press. @ Cap. (bar)	Metric Tons @ 700 bar	Weight (Kg)
<b>C51C</b>	5	25.4	18.0	28.6	6.4	694	4.5	1.0
<b>C53C</b>	5	82.6	52.4	28.6	6.4	694	4.5	1.5
<b>C55C</b>	5	133.4	85.2	28.6	6.4	694	4.5	1.8
<b>C57C</b>	5	184.2	118.0	28.6	6.4	694	4.5	2.3
<b>C59C</b>	5	235.0	150.8	28.6	6.4	694	4.5	2.6
<b>C101C</b>	10	25.4	36.1	42.8	14.4	617	10.2	1.8
<b>C102C</b>	10	54.0	78.7	42.8	14.4	617	10.2	2.3
<b>C104C</b>	10	104.8	150.8	42.8	14.4	617	10.2	3.0
<b>C106C</b>	10	155.6	224.5	42.8	14.4	617	10.2	4.3
<b>C108C</b>	10	206.4	326.2	42.8	14.4	617	10.2	5.0
<b>C1010C</b>	10	257.2	370.4	42.8	14.4	617	10.2	5.9
<b>C1012C</b>	10	308.0	444.2	42.8	14.4	617	10.2	6.6
<b>C1014C</b>	10	358.8	517.9	42.8	14.4	617	10.2	7.3
<b>C1016C</b>	10	406.4	592.0	42.8	14.4	617	10.2	8.4
<b>C151C</b>	15	25.4	50.8	50.8	20.3	659	14.2	3.4
<b>C152C</b>	15	54.0	109.8	50.8	20.3	659	14.2	4.0
<b>C154C</b>	15	104.8	211.4	50.8	20.3	659	14.2	5.2
<b>C156C</b>	15	155.6	314.7	50.8	20.3	659	14.2	6.9
<b>C158C</b>	15	206.4	417.9	50.8	20.3	659	14.2	8.1
<b>C1510C</b>	15	257.2	521.2	50.8	20.3	659	14.2	9.4
<b>C1512C</b>	15	308.0	624.5	50.8	20.3	659	14.2	10.5
<b>C1514C</b>	15	358.8	727.7	50.8	20.3	659	14.2	11.8
<b>C1516C</b>	15	406.4	824.4	50.8	20.3	659	14.2	12.8
<b>C251C</b>	25	25.4	83.6	65.1	33.2	669	23.4	5.4
<b>C252C</b>	25	50.8	168.8	65.1	33.2	669	23.4	6.3
<b>C254C</b>	25	101.6	337.6	65.1	33.2	669	23.4	8.0
<b>C256C</b>	25	158.8	527.8	65.1	33.2	669	23.4	9.8
<b>C258C</b>	25	209.6	696.6	65.1	33.2	669	23.4	11.6
<b>C2510C</b>	25	260.4	865.4	65.1	33.2	669	23.4	13.3
<b>C2512C</b>	25	311.2	1035.8	65.1	33.2	669	23.4	15.0
<b>C2514C</b>	25	362.0	1204.7	65.1	33.2	669	23.4	16.7
<b>C552C</b>	55	50.8	362.2	95.3	71.2	687	50.1	14.7
<b>C554C</b>	55	108.0	768.7	95.3	71.2	687	50.1	18.7
<b>C556C</b>	55	158.8	1130.9	95.3	71.2	687	50.1	23.1
<b>C5510C</b>	55	260.4	1855.3	95.3	71.2	687	50.1	30.4
<b>C5513C</b>	55	336.6	2397.9	95.3	71.2	687	50.1	35.3
<b>C756C</b>	75	155.6	1596.4	114.3	102.6	651	72.1	33.3
<b>C7513C</b>	75	333.4	3420.6	114.3	102.6	651	72.1	49.6
<b>C1002C</b>	100	50.8	675.3	130.2	133.0	669	93.6	28.5
<b>C1006C</b>	100	168.3	2245.4	130.2	133.0	669	93.6	41.2
<b>C10010C</b>	100	260.4	3466.5	130.2	133.0	669	93.6	51.2



30, 60, 100, 150, 200 Ton  
Double-Acting Models  
Feature Plain Collar

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

## CENTRE HOLE CYLINDERS

### DOUBLE-ACTING, HYDRAULIC-RETURN (30-200 TON CAPACITY)

Ideal for Pulling & Tensioning of Cables, Anchor Bolts, Forcing Screws, etc

#### SPX POWER TEAM RH Series

##### FEATURES:

- Built-in safety feature prevents over-pressurisation of the retract circuit
- Cylinders withstand full "dead-end" loads; comply with ASME B30.1 standard
- Interchangeable piston head inserts provide versatility of application
- Plated piston rod resists wear; superior packings provide high cycle life without leakage
- Corrosion-resistant standpipe has "Power Tech" surface treatment
- Each cylinder has two 9796-3/8" NPTF female half couplers. The 60 ton thru 200 ton models are equipped with removable carrying handles

#### ORDERING INFORMATION:

Order Code	Cyl.Cap. (tons)		Stroke (mm)	Oil Cap. (cu. cm)		Mounting Holes & Bolt Circle (mm)	Cyl. Effective Area (sq. cm)		Internal Press. @ Cap. (bar)		Metric Tons @ 700 bar		Weight (Kg)
	PUSH	PULL		PUSH	PULL		PUSH	PULL	PUSH	PULL	PUSH	PULL	
<b>RH303</b>	30	15	76.2	288.6	167.3	3/8-16 x 92.1	38.0	21.8	703	612	26.8	15.3	13.5
<b>RH306D</b>	30	15	152.4	579.6	332.6	7/15-20 x 92.1	38.0	21.8	703	612	26.8	15.3	20.4
<b>RH3010</b>	30	20	257.2	1082.4	672.4	None	42.2	26.1	632	682	29.7	18.3	27.7
<b>RHA604D</b>	60	25	101.6	806.9	337.8	1/2-13 x 130.2	79.4	33.2	672	669	55.8	25.1	16.2
<b>RH605*</b>	60	25	127.0	1009.4	422.6	1/2-13 x 130.2	79.4	33.2	672	669	55.8	25.1	33.1
<b>RH6010*</b>	60	40	257.2	2181.2	1426.8	None	84.8	55.4	639	642	59.6	38.9	54.5
<b>RH1001*</b>	100	45	38.1	526.4	232.9	5/8-11 x 177.8	138.0	60.8	644	658	97.0	42.7	38.6
<b>RH1006*</b>	100	50	152.4	1971.3	1075.8	1/2-13 x 139.7	129.2	70.5	688	630	90.8	49.6	43.1
<b>RH10010*</b>	100	45	257.2	3552.2	1566.2	None	138.0	60.8	644	658	97.0	42.7	109.0
<b>RH1505*</b>	150	70	127.0	2474.8	1207.0	None	194.1	94.8	685	656	136.9	66.8	67.2
<b>RH1508*</b>	150	75	203.2	3929.4	2086.1	None	193.2	102.6	690	650	135.9	72.1	103.1
<b>RH2008*</b>	200	75	203.2	5307.0	2092.6	1 1/4-12 x 198.1	260.9	102.9	681	648	183.5	72.4	142.0

\* These cylinders supplied with carrying handles.



## DOUBLE-ACTING CYLINDERS

### DOUBLE-ACTING, HYDRAULIC-RETURN (10-500 TON CAPACITY)

High Tonnage, with Premium Design and Quality for High Cycle Life. Ideal for Rapid or Controlled Return of Piston such as Pressing or Fixturing Applications.

#### **SPX POWER TEAM RD Series**

##### FEATURES OF RD300, RD400 & RD500 SERIES CYLINDERS:



##### FEATURES OF RD10 THRU RD200 SERIES CYLINDERS:



#### ORDERING INFORMATION:

Order Code	Cyl.Cap. (tons)		Stroke (mm)	Oil Cap. (cu. cm)		Load Cap Dia.(mm)	Bore Dia. (mm)	Cyl. Effective Area (sq. cm)		Internal Press. @ Cap. (bar)		Metric Tons @ 700 bar		Weight (Kg)
	PUSH	PULL		PUSH	PULL			PUSH	PULL	PUSH	PULL	PUSH	PULL	
<b>RD106</b>	10	4	158.8	228.0	90.2	34.9	42.9	14.4	5.7	616	624	10.2	4.0	10.0
<b>RD1010</b>	10	4	254.0	365.7	144.3	34.9	42.9	14.4	5.7	616	624	10.2	4.0	12.7
<b>RD256</b>	25	8	158.8	528.1	165.6	54.0	65.1	33.2	10.4	668	684	23.4	7.3	18.1
<b>RD2514</b>	25	8	362.0	1205.4	375.6	54.0	65.1	33.2	10.4	668	684	23.4	7.3	29.5
<b>RD556</b>	55	28	158.8	1131.6	577.3	66.7	95.3	71.2	36.3	686	685	50.1	25.6	27.9
<b>RD5513</b>	55	28	333.4	2376.4	1212.0	66.7	95.3	71.2	36.3	686	685	50.1	25.6	40.9
<b>RD5518</b>	55	28	460.4	3280.0	1672.8	66.7	95.3	71.2	36.3	686	685	50.1	25.6	64.5
<b>RD8013</b>	80	44	333.4	3421.0	1900.8	73.0	114.3	102.6	57.0	693	686	72.1	40.1	53.6
<b>RD1006</b>	100	44	168.3	2241.9	959.4	98.4	130.2	133.1	57.0	668	686	93.5	40.1	57.2
<b>RD10013</b>	100	44	333.4	4439.5	1902.4	98.4	130.2	133.1	57.0	668	686	93.5	40.1	82.2
<b>RD10020</b>	100	44	511.2	6809.3	2919.2	98.4	130.2	133.1	57.0	668	686	93.5	40.1	118.0
<b>RD1506</b>	150	73	168.3	3334.1	1605.6	114.3	158.8	197.9	95.3	674	681	139.1	66.9	85.4
<b>RD15013</b>	150	73	333.4	6604.3	3180.0	114.3	158.8	197.9	95.3	674	681	139.1	66.9	123.5
<b>RD15018</b>	150	73	460.4	9131.5	4391.9	114.3	158.8	197.9	95.3	674	681	139.1	66.9	170.7
<b>RD2006</b>	200	113	168.3	4485.4	2456.7	114.3	184.2	266.3	145.9	668	688	187.2	102.6	118.9
<b>RD20013</b>	200	113	333.4	8885.5	4869.2	114.3	184.2	266.3	145.9	668	688	187.2	102.6	161.6
<b>RD20018</b>	200	113	460.4	12,270	6722.4	114.3	184.2	266.3	145.9	668	688	187.2	102.6	200.7
<b>RD3006</b>	300	147	152.4	5920.4	2902.8	174.6	222.3	387.8	190.0	687	689	272.7	133.6	172.5
<b>RD30013</b>	300	147	330.2	12,825	6281.2	174.6	222.3	387.8	190.0	687	689	272.7	133.6	296.9
<b>RD4006</b>	400	186	152.4	7724.4	4050.8	198.4	254.0	506.6	240.3	702	689	356.2	169.0	265.6
<b>RD40013</b>	400	186	330.2	16,774	8790.4	198.4	254.0	506.6	240.3	702	689	356.2	169.0	349.6
<b>RD5006</b>	500	245	152.4	9774.4	4838.0	215.9	285.8	641.1	317.0	693	689	450.8	222.8	371.8
<b>RD50013</b>	500	245	330.2	21,189	10,480	215.9	285.8	641.1	317.0	693	689	450.8	222.8	495.8



## HIGH TONNAGE CYLINDERS

### SINGLE-ACTING, LOAD-RETURN (150-565 TON CAPACITY)

High-Tonnage, Low Cycle, Gravity Return, Economy Cylinders



#### SPX POWER TEAM R Series

##### FEATURES:

- Fully comply with ASME B30.1 standard
- Visible indicator band alerts operator when stroke limit is reached; overflow port ("weep hole") stroke limiter prevents piston from being inadvertently overextended
- Alloy heat treated piston and body for exceptional reliability and strength
- Plated piston rods greatly increase corrosion resistance and give superior bearing qualities

##### ORDERING INFORMATION:

Order Code	Cyl.Cap. (tons)	Stroke (mm)	Oil Cap. (cu. cm)	Bore Dia. (mm)	Cyl. Effective Area (sq. cm)	Internal Press. @ Cap. (bar)	Metric Tons @ 700 bar	Weight (Kg)
R552C	55	50.8	362.4	95.3	71.2	686.2	50.1	12.3
R556C	55	152.4	1087.3	95.3	71.2	686.2	50.1	22.7
R5510C	55	254.0	1810.6	95.3	71.2	686.2	50.1	32.7
R1002C	100	50.8	677.3	130.2	133.1	668.0	93.6	23.6
R1006C	100	152.4	2030.3	130.2	133.1	668.0	93.6	40.4
R10010C	100	254.0	3383.3	130.2	133.1	668.0	93.6	57.7
R1502C	150	50.8	1007.0	158.8	197.9	673.7	139.1	41.8
R1506C	150	152.4	3019.2	158.8	197.9	673.7	139.1	68.6
R15010C	150	254.0	5031.5	158.8	197.9	673.7	139.1	95.3
R2002C	200	50.8	1354.6	184.2	266.3	667.6	187.2	65.8
R2006C	200	152.4	4062.3	184.2	266.3	667.6	187.2	100.3
R20010C	200	254.0	6769.9	184.2	266.3	667.6	187.2	134.8
R2802C	280	50.8	1861.4	215.9	366.0	680.0	257.3	91.3
R2806C	280	152.4	5582.6	215.9	366.0	680.0	257.3	136.2
R28010C	280	254.0	9305.4	215.9	366.0	680.0	257.3	182.1
R3552C	355	50.8	2325.5	241.3	457.2	690.2	321.4	137.1
R3556C	355	152.4	6974.9	241.3	457.2	690.2	321.4	197.0
R35510C	355	254.0	11,624.3	241.3	457.2	690.2	321.4	256.5
R4302C	430	50.8	2840.5	266.7	558.5	684.3	392.7	199.8
R4306C	430	152.4	8519.8	266.7	558.5	684.3	392.7	276.5
R43010C	430	254.0	14,200.8	266.7	558.5	684.3	392.7	353.2
R5652C	565	50.8	3709.7	304.8	729.5	688.4	512.9	289.7
R5656C	565	152.4	11,129	304.8	729.5	688.4	512.9	389.5
R56510C	565	254.0	18,548.4	304.8	729.5	688.4	512.9	489.4



## DOUBLE-ACTING, HYDRAULIC-RETURN (100-565 TON CAPACITY) High-Tonnage, Low Cycle, Hydraulic Return, Economy Cylinders (Similar to "Load Return" Cylinders with Hydraulically Powered Return)

### **SPX POWER TEAM. R Series**

#### FEATURES:

- Cylinders come standard with swivel caps to reduce the effects of off-centre loading
- Cylinders may be "dead -ended" without damage
- Hard chrome plated, heat treated piston rod provides reduced wear on both piston and gland nut
- Built-in safety relief valve prevents accidental over-pressurisation of the retract circuit
- Each cylinder has two 9796 3/8" NPTF female half couplers
- In full compliance with ASME B30.1 standard
- Integral swivel cap is a standard component on this series of cylinder



#### ORDERING INFORMATION:

Order Code	Cyl.Cap. (tons)	Stroke (mm)	Oil Cap. (cu. cm)		Bore Dia. (mm)	Cyl. Effective Area (sq. cm)	Internal Press. @ Cap. (bar)	Metric Tons @ 700 bar		Weight (Kg)
			PUSH	RETURN				PUSH	PUSH	
<b>R1002D</b>	100	50.8	676	315	130.2	132.9	668	93.4	24.5	
<b>R1006D</b>	100	152.4	2027	945	130.2	132.9	668	93.4	36.8	
<b>R10010D</b>	100	254.0	3378	1574	130.2	132.9	668	93.4	49.0	
<b>R1502D</b>	150	50.8	1007	485	158.8	198.0	674	139.1	43.1	
<b>R1506D</b>	150	152.4	3021	1456	158.8	198.0	674	139.1	61.7	
<b>R15010D</b>	150	254.0	5035	2427	158.8	198.0	674	139.1	80.4	
<b>R2002D</b>	200	50.8	1355	643	184.2	266.4	668	187.2	61.7	
<b>R2006D</b>	200	152.4	4064	1929	184.2	266.4	668	187.2	84.9	
<b>R20010D</b>	200	254.0	6773	3214	184.2	266.4	668	187.2	108.5	
<b>R2802D</b>	280	50.8	1860	774	215.9	365.7	680	257.3	99.4	
<b>R2806D</b>	280	152.4	5579	2322	215.9	365.7	680	257.3	134.8	
<b>R28010D</b>	280	254.0	9299	3870	215.9	365.7	680	257.3	170.7	
<b>R3552D</b>	355	50.8	2326	777	241.3	457.3	690	321.4	147.0	
<b>R3556D</b>	355	152.4	6977	2332	241.3	457.3	690	321.4	191.1	
<b>R35510D</b>	355	254.0	11,628	3887	241.3	457.3	690	321.4	234.7	
<b>R4302D</b>	430	50.8	2840	977	266.7	558.6	684	392.7	199.3	
<b>R4306D</b>	430	152.4	8521	2932	266.7	558.6	684	392.7	253.3	
<b>R43010D</b>	430	254.0	14,202	4887	266.7	558.6	684	392.7	305.5	
<b>R5652D</b>	565	50.8	3710	1260	304.8	729.5	688	512.9	281.0	
<b>R5656D</b>	565	152.4	11,129	3379	304.8	729.5	688	512.9	350.4	
<b>R56510D</b>	565	254.0	18,548	6298	304.8	729.5	688	512.9	420.4	



## HYDRAULIC HAND PUMPS SINGLE-SPEED/SINGLE-ACTING

Reservoir Capacity from 196.8 to 902 cu. cm.



**P12**



**P23**



**P55**

### **SPX POWER TEAM** Single-Speed Pumps

Single-speed pumps advance the same rate during free travel (no load) as when under load. When compared to a two-speed pump, the single-speed pump requires considerable more handle strokes to advance the cylinder to the load. Single-speed pumps are best suited for applications where there is little or no free travel.

#### FEATURES:

- Rugged all metal construction for strength and durability that won't burn through in welding environments
- Heavy-duty, formed metal handle provides less flex, and less operator fatigue than round or composite handles
- Convenient fill ports on P23 and P55 allows pumps to be filled in a horizontal or vertical position
- Fill cap seal acts as safety valve to prevent over-pressurising of reservoir
- Relief valve inboard of check valve prevents loads from drifting down
- Large valve knob gives added control for slowly metering loads down



Power Team hand pumps, with the angled fill port, have a built-in "relief valve" protection system. This system is designed to protect over-pressurisation of the reservoir from sudden back pressure. This system also works as a seal to prevent oil leaks.

#### ORDERING INFORMATION:

Order Code	Speed	Volume & Pressure				Handle Effort (Kg)	Reservoir			Weight (Kg)
		Volume per Stroke (cu.cm)		Max. Pressure (bar)			Oil Capacity (cu.cm)	Usable Oil Capacity (cu.cm)	Oil Port	
		LP	HP	LP	HP					
<b>P12</b>	1	-	1.1	-	700	34.1	196.8	147.6	3/8" NPTF	2.6
<b>P23</b>	1	-	2.6	-	207	31.8	390.3	332.9	3/8" NPTF	5.5
<b>P55</b>	1	-	2.6	-	700	65.8	902	738.0	3/8" NPTF	7.2

For use with Single-Acting Cylinders (pump includes 2-way valve)

LP = Low Pressure HP = High Pressure



## TWO-SPEED/SINGLE-ACTING

Reservoir Capacity from 400.2 to 902 cu. cm.

### **SPX POWER TEAM** Two-Speed Pumps

Two-speed pumps are designed to quickly advance the cylinder during free travel (no load) with a minimum amount of handle strokes. Once the cylinder contacts the load, the pump automatically shifts into the high pressure stage to lift the load.

#### FEATURES:

- Rugged all metal construction for strength and durability that won't burn through in welding environments
- Two-speed feature reduces handle strokes so you work faster and easier
- Heavy-duty, formed metal handle provides less flex, and less operator fatigue than round or composite handles
- Convenient fill port allows pumps to be filled in a horizontal or vertical position
- Relief valve inboard of check valve prevents loads from drifting down
- Large valve knob gives added control for slowly metering loads down



**P19**



**P59**



**P59F**



Power Team hand pumps, with the angled fill port, have a built-in "relief valve" protection system. This system is designed to protect over-pressurisation of the reservoir from sudden back pressure. This system also works as a seal to prevent oil leaks.

#### ORDERING INFORMATION:

Order Code	Speed	Volume & Pressure				Handle Effort (Kg)	Reservoir			Weight (Kg)
		Volume per Stroke (cu.cm)		Max. Pressure (bar)			Oil Capacity (cu.cm)	Usable Oil Capacity (cu.cm)	Oil Port	
		LP	HP	LP	HP					
<b>P19</b>	2	5.0	1.2	22.4	700	44.9	400.2	328	3/8" NPTF	3.0
<b>P59</b>	2	10.9	2.6	22.4	700	65.8	902	738	3/8" NPTF	7.8
<b>P59F</b>	2	9.0	2.1	22.4	700	54.5	902	738	3/8" NPTF	6.4

For use with Single-Acting Cylinders (pump includes 2-way valve)

LP = Low Pressure HP = High Pressure



## TWO-SPEED/SINGLE ACTING

Reservoir Capacity 475 & 1131 cu. cm.

### **SPX POWER TEAM** Two-Speed Lightweight Pumps

This new lightweight 'L' Series pump has a durable all-metal construction making the pump easy to carry and position. It is ideal for powering a wide range of hydraulic cylinders and other high forced tools used in everyday lifting, fabricating and maintenance applications.

#### FEATURES:

- More usable oil volume provides the ability to operate larger or longer stroke cylinders
- True unloading valve set for 850 PSI (59 bar) providing more efficiency and lower handle force
- The link design provides a 40% reduction in handle effort to ensure the job gets done easier and faster
- Durable aluminium reservoir, manifold and end cap ensures heavier jobs are handled with ease
- Ergonomic non-slip handle grip ensures greater comfort
- A spring loaded handle lock is incorporated into the handle, making it easier to carry and position the pump in place



Power Team hand pumps, with the angled fill port, have a built-in "relief valve" protection system. This system is designed to protect over-pressurisation of the reservoir from sudden back pressure. This system also works as a seal to prevent oil leaks.

#### ORDERING INFORMATION:

Order Code	Speed	Volume & Pressure				Handle Effort (Kg)	Reservoir			
		Volume per Stroke (cu.cm)		Max. Pressure (bar)			Oil Capacity (cu.cm)	Usable Oil Capacity (cu.cm)	Oil Port	Weight (Kg)
		LP	HP	LP	HP					
<b>P19L</b>	2	4.1	0.8	59	700	35.4	475	443	3/8" NPTF	2.3
<b>P59L</b>	2	12	2.5	59	700	47.2	1131	1082	3/8" NPTF	4.1

For use with Single-Acting Cylinders (pump includes 2-way valve)  
 LP = Low Pressure HP = High Pressure



## TWO-SPEED/SINGLE & DOUBLE-ACTING

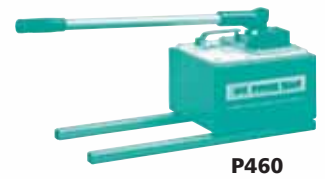
Reservoir Capacity 9.5 Litres

### **SPX POWER TEAM** Two-Speed Pumps (Single & Double-Acting)

Hand operated pumps with large capacity reservoirs.

#### FEATURES:

- Rugged all metal construction for strength and durability that won't burn through in welding environments
- Two-speed feature reduces handle strokes so you work faster and easier
- Carry handles on all models
- Convenient fill port allows pumps (except P300 & P460) to be filled in a horizontal or vertical position
- Fill cap seal acts as safety valve (except P300) to prevent over-pressurising of reservoir
- Larger reservoir capacities to accommodate multiple or high tonnage cylinders



#### ORDERING INFORMATION:

Order Code	Speed	Volume & Pressure				Handle Effort (Kg)	Reservoir		Oil Port	Weight (Kg)
		Volume per Stroke (cu.cm)		Max. Pressure (bar)			Oil Capacity (cu.cm)	Usable Oil Capacity (cu.cm)		
		LP	HP	LP	HP					
Single-Acting*										
<b>P157</b>	2	10.7	2.6	97	700	63.5	2491	2245	3/8" NPTF	11.8
<b>P159</b>	2	42.6	2.6	22	700	63.5	2491	2245	3/8" NPTF	11.8
<b>P300</b>	2	42.6	2.6	22	700	63.5	5.7 Litre	5081	3/8" NPTF	25.1
<b>P460</b>	2	120.5	4.6	22	700	40.8	9.5 Litre	7539	3/8" NPTF	24.9
Double-Acting**										
<b>P157D</b>	2	10.7	2.6	97	700	63.5	2491	2245	3/8" NPTF	13.1
<b>P159D</b>	2	42.6	2.6	22	700	63.5	2491	2245	3/8" NPTF	12.7
<b>P300D</b>	2	42.6	2.6	22	700	63.5	5.7 Litre	5081	3/8" NPTF	25.9
<b>P460D</b>	2	120.5	4.6	22	700	40.8	9.5 Litre	7539	3/8" NPTF	26.3

\* Single-Acting Cylinders (pump includes 2-way valve)

\*\* Double-Acting Cylinders (pump includes 4-way valve)

LP = Low Pressure HP = High Pressure



## AIR HYDRAULIC PUMPS SINGLE-ACTING

Reservoir Capacity 98.4 cu. cm./min.

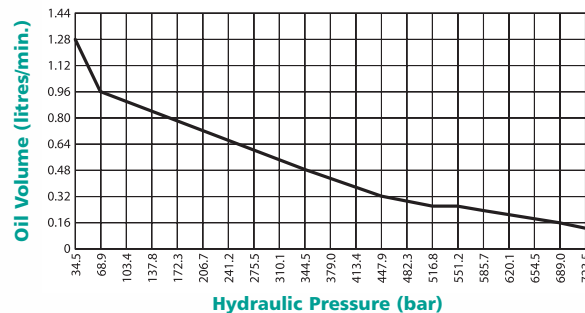
### SPX POWER TEAM PA6 Series

Single-speed pump designed to drive single-acting cylinders or tools. Pump can easily be operated by hand or foot. Generally recommended for tools and cylinders up to 15 ton.

#### FEATURES:

- Single-speed pumps designed to drive single-acting cylinders, are compact, lightweight and portable
- A quarter century record of proven reliability. The power unit of choice for major manufacturers of auto body, frame straighteners and other equipment
- Operate at 3 - 8 bar shop air pressure at the pump
- Internal relief valves protect circuit components, air inlet filter protects motor
- All metal air motor, ductile iron pump. Serviceable pump motor is not a "throw away", providing economical repair
- Permanently vented reservoir cap
- An inexpensive alternative to using manually operated pumps
- dBA 85 at 700 bar for all PA6 Series pumps

#### PERFORMANCE: PA6 Pressure vs. volume based on 7 bar air pressure



#### ORDERING INFORMATION:

Order Code	Description	Air Supply Req'd (bar)	Reservoir			Oil Port	Weight (Kg)
			Capacity (Litres)	Usable (Litres)			
PA6	Base model pump with high density polyethylene reservoir	3 - 8	1.7	1.6	3/8" NPTF	6.3	
PA6A	PA6 with externally adjustable relief valve	3 - 8	1.7	1.6	3/8" NPTF	6.8	
PA6AM	PA6A with metal reservoir	3 - 8	1.7	1.6	3/8" NPTF	7.7	
PA6M	PA6, except has metal reservoir	3 - 8	1.7	1.6	3/8" NPTF	8.2	
PA6R	PA6 with 3.7 metre remote control	3 - 8	1.7	1.6	3/8" NPTF	9.3	
PA6RM	PA6R, except has metal reservoir	3 - 8	1.7	1.6	3/8" NPTF	9.8	
PA6M-1	PA6, except has 3.8 Litre metal reservoir	3 - 8	3.8	3.0	3/8" NPTF	10.7	
PA6-2	PA6, except has 7.6 Litre high density polyethylene reservoir	3 - 8	7.6	7.3	3/8" NPTF	11.1	
PA6M-2	PA6, except has 9.5 Litre metal reservoir	3 - 8	9.5	9.1	3/8" NPTF	14.5	



## DOUBLE-ACTING

Reservoir Capacity 98.4 cu. cm./min.

### **SPX POWER TEAM PA6D Series**

Single-speed pump designed to drive double-acting cylinders. Generally recommended for tools and cylinders up to 15 ton.

#### FEATURES:

- Compact, lightweight and portable single-speed pump for driving double-acting cylinders
- A quarter century record of proven reliability. The power unit of choice for major manufacturers of auto body, frame straighteners and other equipment
- Operate at 3 - 8 bar shop air pressure at the pump
- Internal relief valves protect circuit components, air inlet filter protects motor
- All metal air motor, ductile iron pump. Serviceable pump motor is not a "throw away", providing economical repair
- Permanently vented reservoir cap
- An inexpensive alternative to using manually operated pumps
- Four reservoir sizes available to best match your application
- dBA 85 at 700 bar for all PA6 pumps



PA6D

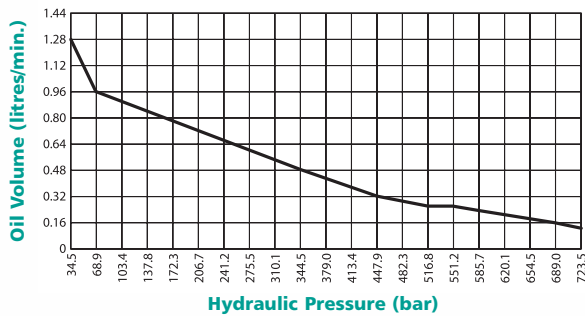


PA6DM-1



PA6D2

#### PERFORMANCE: PA6 Pressure vs. volume based on 7 bar air pressure



#### ORDERING INFORMATION:

Order Code	Description	Reservoir				
		Air Supply Req'd (bar)	Capacity (Litres)	Usable (Litres)	Oil Port	Weight (Kg)
<b>PA6D</b>	Base model pump with high density polyethylene reservoir	3 - 8	1.7	1.6	3/8" NPTF	8.3
<b>PA6DM</b>	PA6D, except has metal reservoir	3 - 8	1.7	1.6	3/8" NPTF	9.2
<b>PA6DM-1</b>	PA6D, except has 3.8 Litre metal reservoir	3 - 8	3.8	3.0	3/8" NPTF	12.7
<b>PA6D2</b>	PA6D, except has 7.6 Litre high density polyethylene reservoir	3 - 8	7.6	7.3	3/8" NPTF	13.0
<b>PA6M-2</b>	PA6D, except has 9.5 Litre metal reservoir	3 - 8	9.5	9.1	3/8" NPTF	16.4

Note: Valve No. for all models is 9504, 3-way/4-way



## ELECTRIC HYDRAULIC PUMPS

Reservoir Capacity 278.8 cu. cm./min. - 0.37 kW

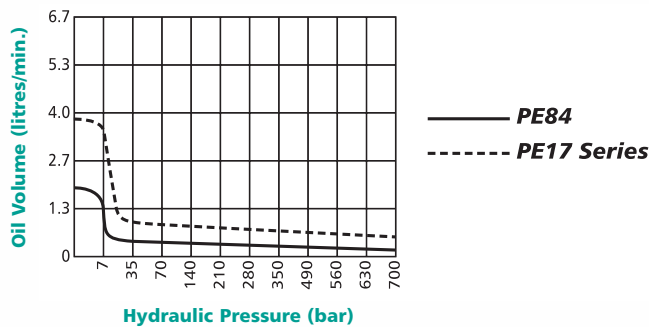
### SPX POWER TEAM PE17 Series

Two-speed high performance at a low price. Ideal for maintenance and construction applications where low voltage is a concern. Generally recommended for cylinders up to 55 ton.

#### FEATURES:

- For use with single-acting or double-acting cylinders at operating pressures to 700 bar
- PE17 Series is for intermittent duty; starts under full load
- Equipped with 0.37 kW, 2874 RPM, single-phase, thermal protected induction motor; 3 metre remote control cord (PE172S-50-220 has 7.6 metre cord)
- Low amperage draw; small generators and low amperage circuits can be used as a power source
- All have 7.6 L thermoplastic reservoir except PE172M, PE172AM, PE172SM and PE174M which have a 9.5 L metal reservoir. Optional steel reservoirs available. Order part no. 213895
- Extremely quiet with noise level ranging from 67-81dBA
- **IMPORTANT:** Oil temperatures in excess of 65.5 C may cause permanent failure of the thermoplastic reservoir of PE17 Series pumps

#### PERFORMANCE:



PE172-50-220



PE172SM-50-220



PE174-50-220

Some Power Team pumps are available in special configurations not listed. Power Team can "assemble to order" pumps with special seals, voltages, valves, relief valve settings, etc. For your special requirements please contact your local representative from Berendsen Fluid Power.

#### SPECIFICATIONS:

Order Code	Max. Press. Output (bar)	RPM	dBA @ Idle and 700 bar	Amp Draw 220V @ 700 bar	Oil Del. (litres./min. @) ^			
					0 bar	7 bar	350 bar	700 bar
PE17 Series	700	2874	67/81*	5	3.9	2.5	0.3	0.2
PE17M Series	700	2874	67/81*	5	3.9	2.5	0.3	0.2
PE17-E220	700	2874	67/81*	5	3.9	2.5	0.3	0.2
PE17M-E220	700	2874	67/81*	5	3.9	2.5	0.3	0.2

\* Measured at 0.9 metre distance, all sides.

^ Typical Delivery. Actual flow will vary with field conditions.



## ORDERING INFORMATION: Single-Acting

Order Code	Description	Valve Type	Valve No.	Valve Function	Control Switch ^ ^	Motor	Reservoir (usable)
<b>PE172-50-220</b>	Base model pump has 0.37 kW pump with 7.6 litre thermoplastic reservoir	2-way	9517	Advance return (auto ^)	Remote motor control (3.1m) on/off	0.37 kW 220 V* 50 Hz, Single Phase	4.72 L
<b>PE172M-50-220</b>	PE172-50-220, except has 9.5 litre aluminium reservoir	2-way	9517	Advance return (auto ^)	Remote motor control (3.1m) on/off	0.37 kW 220 V* 50 Hz, Single Phase	6 L
<b>PE172S-50-220</b>	PE172-50-220, except has solenoid operated valve	3-way	9570	Advance hold return	Remote motor and valve (7.6m)	0.37 kW 220 V* 50 Hz, Single Phase	4.72 L
<b>PE172SM-50-220</b>	PE172S-50-220, except has aluminium reservoir	3-way	9570	Advance hold return	Remote motor and valve (7.6m)	0.37 kW 220 V* 50 Hz, Single Phase	6 L
<b>PE172A-50-220 §</b>	Best suited for crimping, punching, pressing. Not for lifting. Thermoplastic reservoir	Auto/Dump manifold	45554	Advance return	Remote motor control (3.1m) on/off	0.37 kW 220 V* 50 Hz, Single Phase	4.72 L
<b>PE172AM-50-220 §</b>	PE172A, except has aluminium reservoir	Auto/Dump manifold	45554	Advance return	Remote motor control (3.1m) on/off	0.37 kW 220 V* 50 Hz, Single Phase	6 L
<b>PE172-E220</b>	0.37 kW pump with 7.6 litre thermoplastic reservoir. Meets CE requirements.	2-way	9517	Advance return (auto ^)	Remote motor control (3.1m) on/off	CE (1)	4.72 L
<b>PE172M-E220</b>	PE172-50-220, except has 9.5 litre aluminium reservoir. Meets CE requirements.	2-way	9517	Advance return (auto ^)	Remote motor control (3.1m) on/off	CE (1)	6 L
<b>PE172S-E220</b>	PE172-50-220, except has solenoid operated valve. Meets CE requirements.	3-way	9570	Advance hold return	Remote motor and valve (3.1m)	CE (1)	4.72 L
<b>PE172SM-E220</b>	PE172S-50-220, except has aluminium reservoir. Meets CE requirements.	3-way	9570	Advance hold return	Remote motor and valve (3.1m)	CE (1)	6 L
<b>PE172A-E220 §</b>	Best suited for crimping, punching, pressing. Not for lifting. Thermoplastic reservoir. Meets CE requirements.	Auto/Dump manifold	45554	Advance return	Remote motor control (3.1m) on/off	CE (1)	4.72 L
<b>PE172AM-E220 §</b>	PE172A, except has aluminium reservoir. Meets CE requirements.	Auto/Dump manifold	45554	Advance return	Remote motor control (3.1m) on/off	CE (1)	6 L

## ORDERING INFORMATION: Multi Single-Acting

Order Code	Description	Valve Type	Valve No.	Valve Function	Control Switch ^ ^	Motor	Reservoir (usable)
<b>PE174-50-220</b>	PE172-50-220, except has 9500 double-acting valve	4-way	9500	Advance hold return**	Remote motor control (3.1m) on/off	0.37 kW 220 V* 50 Hz, Single Phase	4.72 L
<b>PE174M-50-220</b>	PE174-50-220, except has aluminium reservoir	4-way	9500	Advance hold return**	Remote motor control (3.1m) on/off	0.37 kW 220 V* 50 Hz, Single Phase	6 L
<b>PE174-E220</b>	PE172-50-220, except has 9500 double-acting valve. Meets CE Requirements.	4-way	9500	Advance hold return**	Remote motor control (3.1m) on/off	CE (1)	4.72 L
<b>PE174M-E220</b>	PE174-50-220, except has aluminium reservoir. Meets CE Requirements.	4-way	9500	Advance hold return**	Remote motor control (3.1m) on/off	CE (1)	6 L

\* Available with 115V, 60 Hz motor (to order remove suffix "50-220" from the pump order).

\*\* "Advance" position holds pressure with the motor shut-off.

^ "Advance" position holds pressure with the motor shut-off. "Return" position advances cylinder with the motor running and returns cylinder with motor shut-off.

^^ Control switch on PE17 Series wired with line voltage.

§ Not to be used for lifting.

(1) The pumps are CE marked for meeting the requirements of 89/366/EEC. In addition, they meet the European Union Machinery Directive and are furnished with a Declaration of Incorporation. For additional information, contact your local BFP representative.

**Note:** The remote motor control switch on 220V, 50 cycle PE17 series pumps is 24 volt.

**Note:** Usable oil is calculated with the oil fill at the recommended level of 38mm below reservoir cover plate.



## HYDRAULIC CYLINDERS & PUMP SETS



RPS1006

### SPX POWER TEAM RPS Series

Popular precision-matched cylinder and pump combinations packaged under one convenient order number.

#### FEATURES:

- Precision-matched hydraulic components to do the job safely and efficiently
- Four styles of cylinders to choose from
- Sets feature single or two-speed hydraulic hand pumps
- Cylinders of various tonnage with long, medium or short stroke
- Each set includes the necessary fittings, coupler and 1.8m hose
- Gauge and gauge mounting adapter is recommended, but optional



RPS55



RPS203H

#### ORDERING INFORMATION: "C" Series Cylinders

Order Code	Cyl. Cap. (tons)	Stroke (mm)	Retracted Height (mm)	Handle Strokes Req'd to Fully Extended Cylinder	Cylinder No.	Pump No.	Hose No.	Coupler No.	Pump Speed	Weight (Kg)
RPS55	5	133.4	216	75	C55C	P12	9756	9798	Single	5.4
RPS102**	10	54.0	121	32	C102C	P55	9756	9798	Single	11.8
RPS106**	10	155.6	248	93	C106C	P55	9756	9798	Single	14.5
RPS1010**	10	257.2	349	154	C1010C	P55	9756	9798	Single	16.1
RPS154**	15	104.8	200	81	C154C	P55	9756	9798	Single	13.1
RPS156**	15	155.6	271	118	C156C	P55	9756	9798	Single	15.4
RPS256**	25	158.8	273	219	C256C	P55	9756	9798	Single	19.3
RPS2514**	25	362.0	476	285*	C2514C	P159	9756	9798	Two	28.4
RPS556**	55	158.8	283	268*	C556C	P159	9756	9798	Two	37.5
RPS1006	100	168.3	337	428*	C1006C	P460	9756	9798	Two	58.3

#### ORDERING INFORMATION: "Shorty" Cylinders

Order Code	Cyl. Cap. (tons)	Stroke (mm)	Retracted Height (mm)	Handle Strokes Req'd to Fully Extended Cylinder	Cylinder No.	Pump No.	Hose No.	Coupler No.	Pump Speed	Weight (Kg)
RPS302**	30	61.9	117	61*	RSS302	P59	9756	9798	Two	18.1
RPS552**	50	60.3	127	89*	RSS502	P59	9756	9798	Two	22.7
RPS1002**	100	57.2	140	172*	RSS1002	P59	9756	9798	Two	36.7

#### ORDERING INFORMATION: "Centre-Hole" Cylinders

Order Code	Cyl. Cap. (tons)	Stroke (mm)	Retracted Height (mm)	Handle Strokes Req'd to Fully Extended Cylinder	Cylinder No.	Pump No.	Hose No.	Coupler No.	Pump Speed	Weight (Kg)
RPS203H**	20	76.2	154	80	RH203	P55	9756	9798	Single	18.3

#### ORDERING INFORMATION: Aluminium Jacking Cylinders

Order Code	Cyl. Cap. (tons)	Stroke (mm)	Retracted Height (mm)	Handle Strokes Req'd to Fully Extended Cylinder	Cylinder No.	Pump No.	Hose No.	Coupler No.	Pump Speed	Weight (Kg)
RPS556A**	55	155.6	273	262*	RA556	P159	9756	9798	Two	21.3

\* Based on 50% of the strokes being made at low pressure and 50% of the strokes at high pressure.

\*\* Add suffix "B" (example: RPS102B, RPS203HB, etc) to order set with optional storage box.

