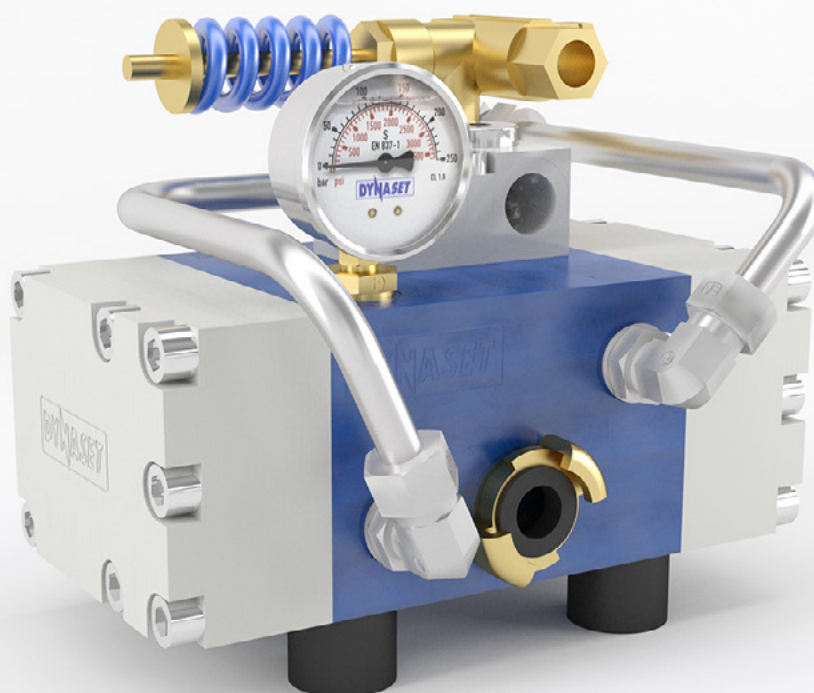
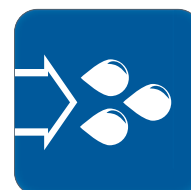




SPARE PARTS HIGH PRESSURE WATER PUMPS

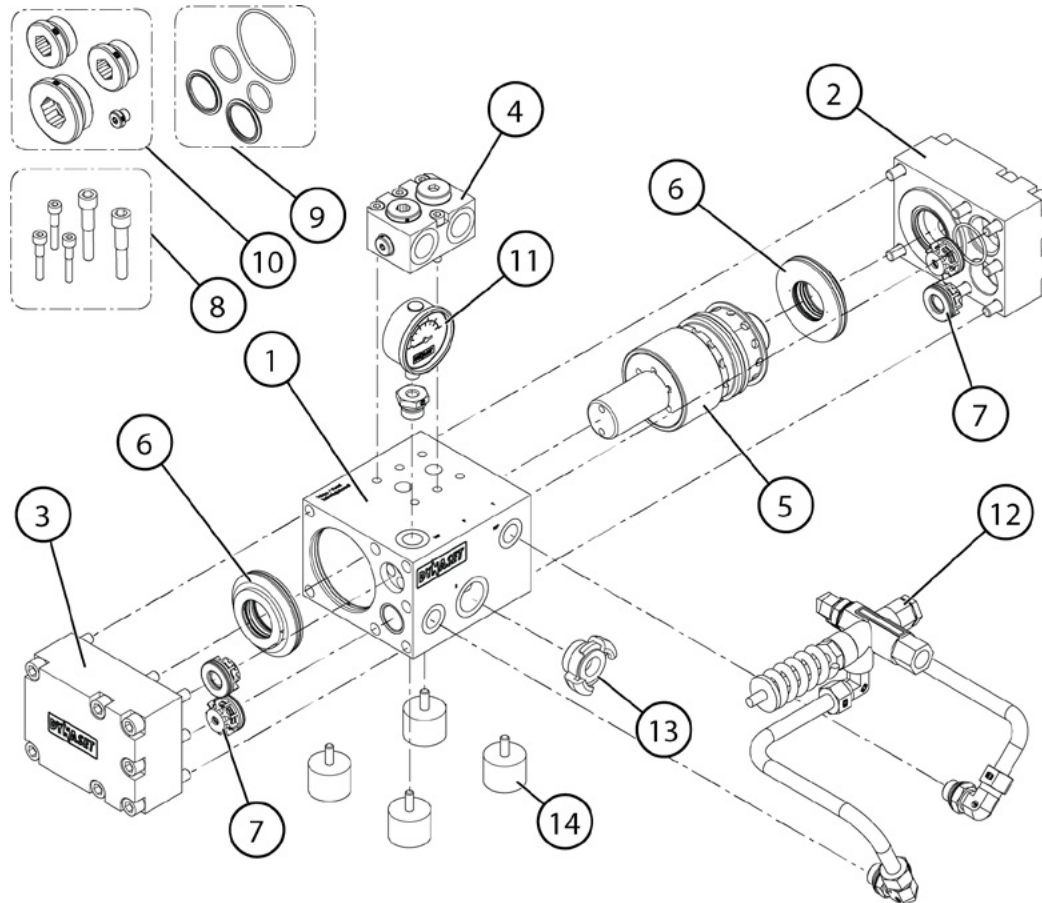


HPW 220 /50-70

SPARE PARTS

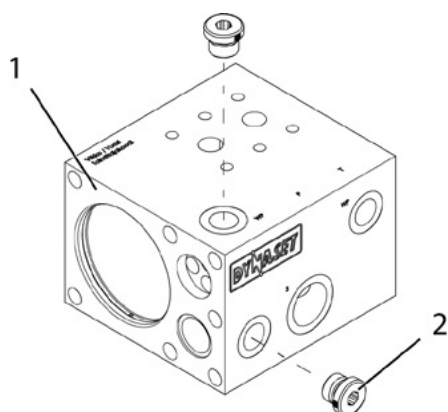
MAIN COMPONENTS	3
1. CENTER BODY.....	4
2. HEAD RIGHT.....	5
3. HEAD LEFT.....	5
4. PT BLOCK.....	6
5. PISTON.....	8
6. SEAL FLANGE.....	9
7. WATER VALVE.....	10
8. SCREW KIT.....	11
9. SEAL KIT.....	12
10. PLUG KIT.....	14
11. PRESSURE GAUGE.....	15
12. UNLOADER VALVE.....	16

MAIN COMPONENTS



POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
1		1	CENTER BODY		See separate part list
2		1	HEAD RIGHT		See separate part list
3		1	HEAD LEFT		See separate part list
4		1	PT BLOCK		See separate part list
5		1	PISTON		See separate part list
6		2	SEAL FLANGE		See separate part list
7		2	WATER VALVE KIT		See separate part list
8			SCREW KIT		See separate part list
9			SEAL KIT		See separate part list
10			PLUG KIT		See separate part list
11		1	PRESSURE GAUGE		See separate part list
12			UNLOADER VALVE		See separate part list
13	V170 327 6000	1	CLAW COUPLING	25 - R1	
14	V100 100 001	1	RUBBER CUSHION KIT	D40 / H30 - M8	

1. CENTER BODY



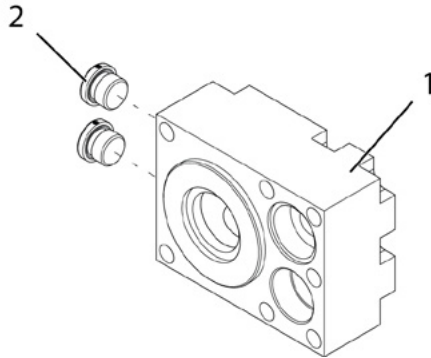
POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
1	V100 101 402	1	CENTER BODY	D85 -Al	Includes pos. 2
2	*	2	HEXAGON SOCKET CAP PLUG	R1/2	

POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
1	V100 101 403	1	CENTER BODY AB	D85	Includes pos. 2
2	*	2	HEXAGON SOCKET CAP PLUG	R1/2	Stainless steel

* Not sold separately. Available only in kit or assembly described above or presented in separate part list.
Read Details 2

Plugs are also available in Plug kit, see page 14.

2. HEAD RIGHT



POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
1	V100 101 404	1	HEAD RIGHT	D85 / d40	Includes pos. 2
2	*	2	HEXAGON SOCKET CAP PLUG	R1/2	

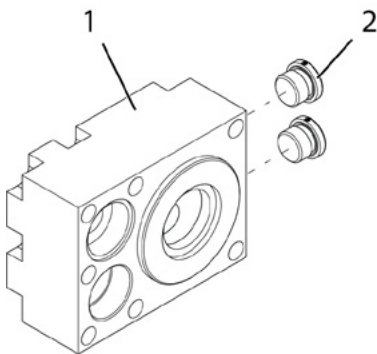
POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
1	V100 101 405	1	HEAD RIGHT AB	D85 / d40	Includes pos. 2
2	*	2	HEXAGON SOCKET CAP PLUG	R1/2	Stainless steel

* Not sold separately. Available only in kit or assembly described above or presented in separate part list.

Read Details 2

Plugs are also available in Plug kit, see page 14.

3. HEAD LEFT



POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
1	V100 101 409	1	HEAD LEFT	D85 / d40	Includes pos. 2
2	*	2	HEXAGON SOCKET CAP PLUG	R1/2	

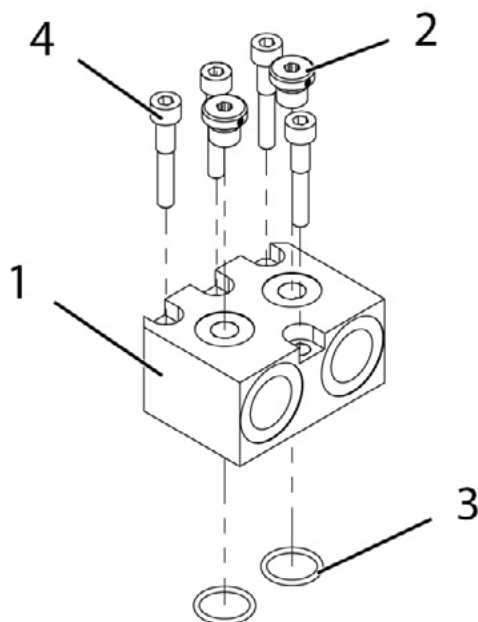
POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
1	V100 101 410	1	HEAD LEFT AB	D85 / d40	Includes pos. 2
2	*	2	HEXAGON SOCKET CAP PLUG	R1/2	Stainless steel

* Not sold separately. Available only in kit or assembly described above or presented in separate part list.

Read Details 2

Plugs are also available in Plug kit, see page 14.

4. PT BLOCK

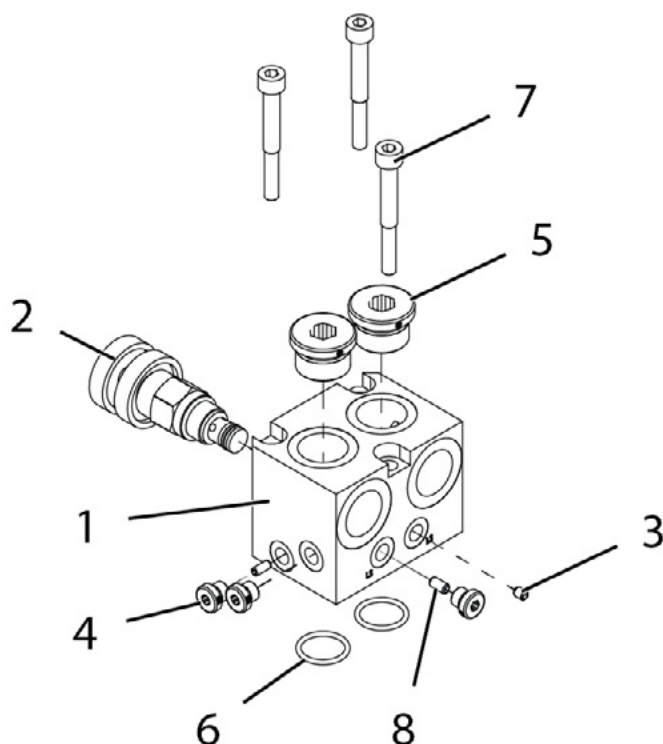


POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 100 700		PT BLOCK		Includes pos. 1-4
1	*	1	PT BLOCK	R3/4 - AI	
2	*	2	HEXAGON SOCKET CAP PLUG	R3/4	
3	*	2	O-RING	21,3 x 2,4	
4	*	4	HEXAGON SOCKET CAP SCREW	M8 x 45	

POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 100 720		PT BLOCK - AIS		Includes pos. 1-4
1	*	1	PT BLOCK	R3/4	Stainless Steel
2	*	2	HEXAGON SOCKET CAP PLUG	R3/4	Stainless Steel
3	*	2	O-RING	21,3 x 2,4	
4	*	4	HEXAGON SOCKET CAP SCREW	M8 x 45	Stainless Steel

* Not sold separately. Available only in kit or assembly described above or presented in separate part list.
Read Details 2

Screws are also available in Screw kit, see page 11.
O-rings are also available in Seal kit, see page 12.
Plugs are also available in Plug kit, see page 14.



POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 100 730		PT BLOCK - LS		Includes pos. 1-9
1	*	1	PT BLOCK	R3/4 - AI - LS	
2	*	1	PRESSURE RELIEF VALVE CARTRIDGE	35-350 bar	
3	*	1	ORIFICE	M6	
4	*	3	HEXAGON SOCKET CAP PLUG	R1/8	
5	*	1	HEXAGON SOCKET CAP PLUG	R3/4	
6	*	2	O-RING	21,3 x 2,4	
7	*	3	HEXAGON SOCKET CAP SCREW	M8 x 65	
8	*	2	SET SCREW	M4	

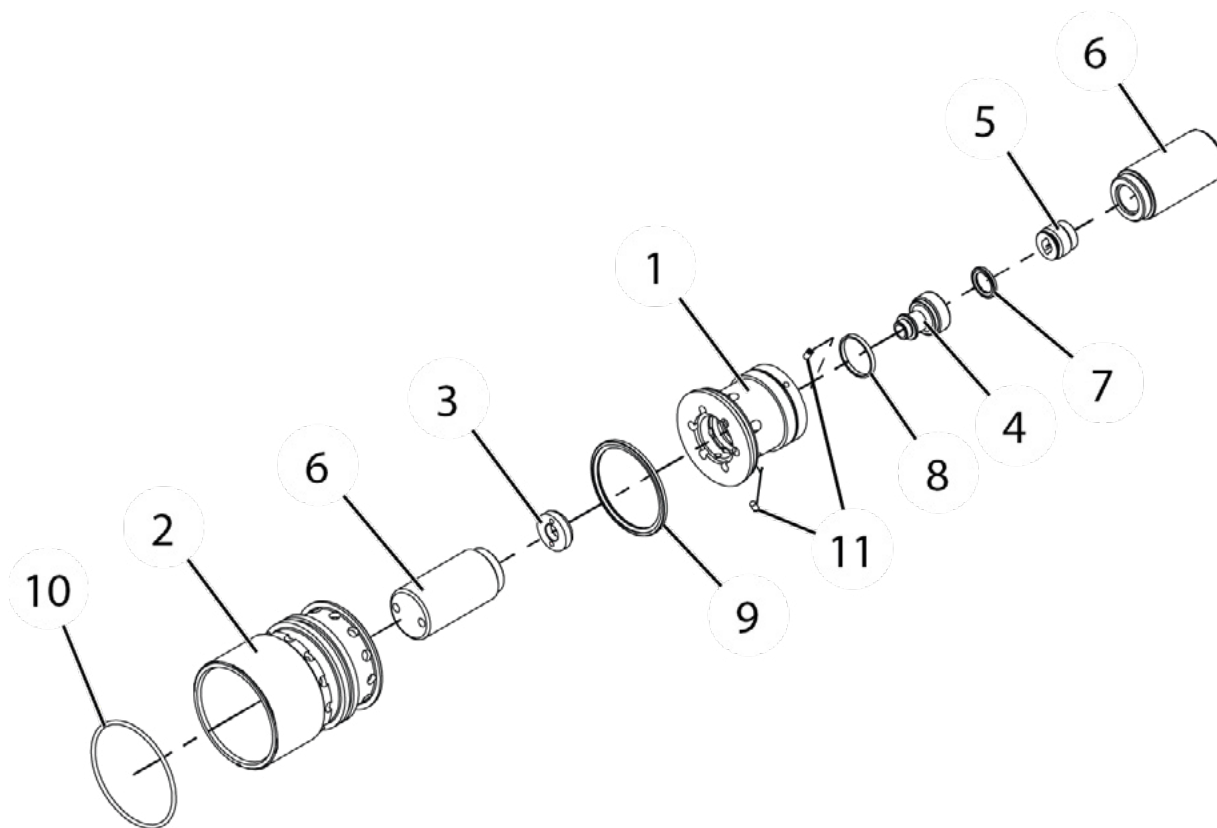
* Not sold separately. Available only in kit or assembly described above or presented in separate part list.
Read Details 2

Screws are also available in Screw kit, see page 11.

O-rings are also available in Seal kit, see page 12.

Plugs are also available in Plug kit, see page 14.

5. PISTON

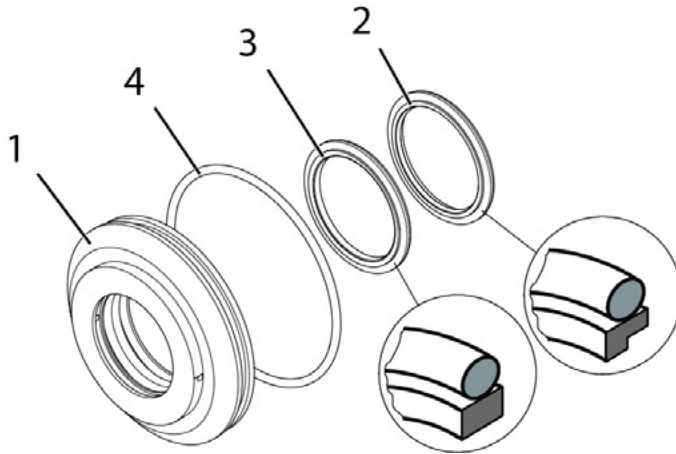


POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 101 400		PISTON KIT	Piston kit includes 2 Secondary pistons	Includes pos. 1-11
1	*	1	HYDRAULIC PISTON	D75 / d60,1	
2	*	1	CYLINDER LINER	D75 / d60,1	
3	*	1	VALVE SEAT	D29,5-8	
4	*	1	VALVE SPOOL	D30-36,5	
5	V100 101 482	1	REVERSAL VALVE GUIDE	D22,5 - L21	Includes pos. 7
6	V100 101 481	1	SECONDARY PISTON	D40	
7	*	1	PISTON SEAL ASSEMBLY	M24	
8	*	1	ROD SEAL	30/33-3,5	
9	*	1	PISTON SEAL ASSEMBLY	M75	
10	*	1	O-RING	79,5 x 3	
11	*	2	SET SCREW	M5 x 10	
	V100 101 401		HYDRAULIC PISTON KIT	Secondary pistons excluded	Includes pos. 1-5, 8-11

* Not sold separately. Available only in kit or assembly described above or presented in separate part list.
Read Details 2

O-rings and seals are also available in Seal kit, see page 12.

6. SEAL FLANGE

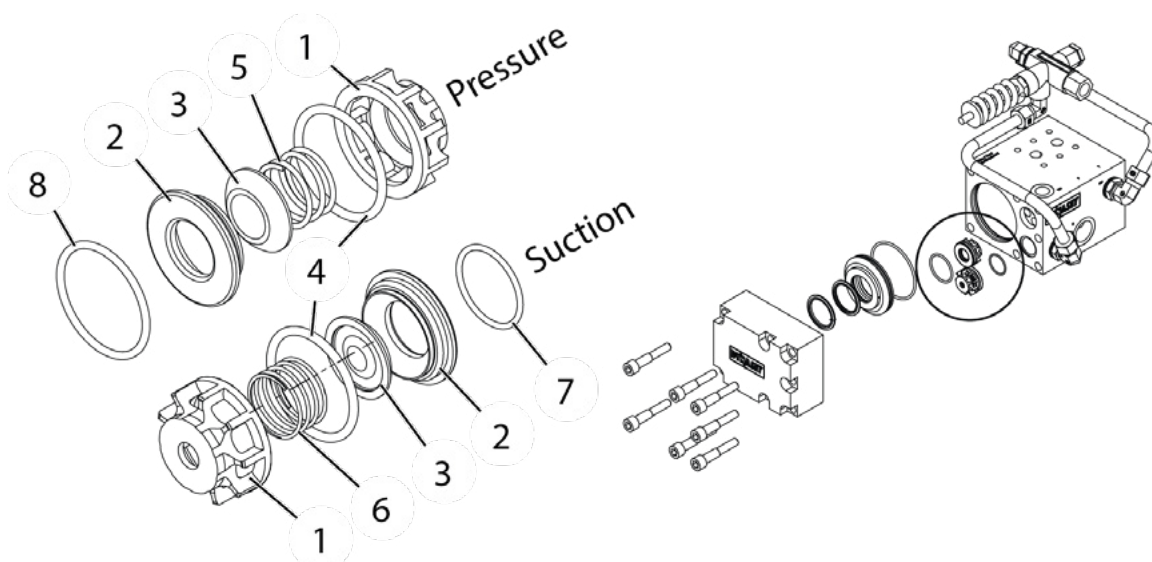


POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 101 392		SEAL FLANGE KIT		Includes pos. 1-4
1	V100 101 393	1	FLANGE BODY	D85 / d40,1-18,5	
2	*	1	WATER PISTON SEAL	1T	Includes O-ring
3	*	1	WATER PISTON SEAL	2T	Includes O-ring
4	*	1	O-RING	79,5 x 3	

* Not sold separately. Available only in kit or assembly described above or presented in separate part list.
Read Details 2

O-rings and seals are also available in Seal kit, see page 12.

7. WATER VALVE



NOTE! The pressure valve's spring (5) has less turns than the suction valve's (6) spring.

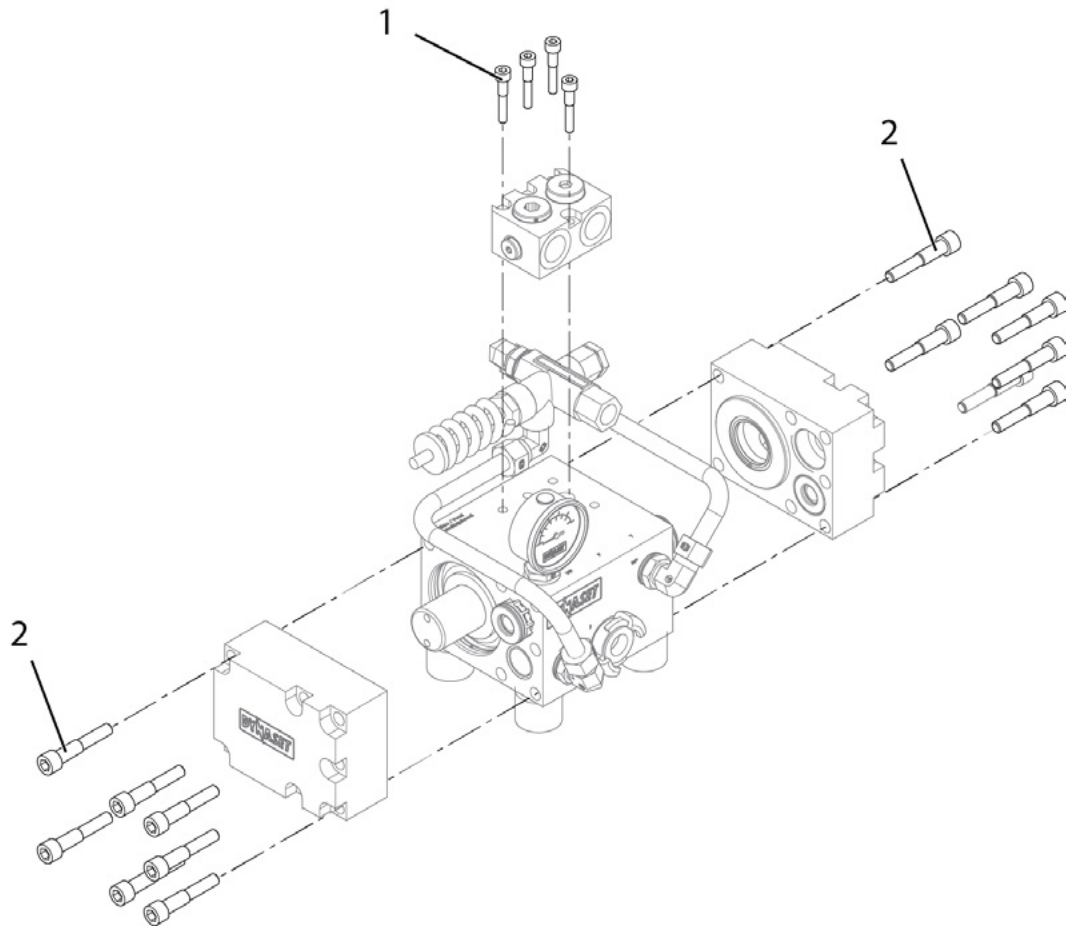
POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 101 475		WATER VALVE KIT		Includes pos. 2-8
1	V100 101 474	4	WATER VALVE CAB		
2	*	4	WATER VALVE SEAT		
3	*	4	WATER VALVE DISK		
4	*	4	O-RING	31,42 x 2,62	
5	*	2	SPRING	Pressure valve	
6	*	2	SPRING	Suction valve	
7	*	2	O-RING	27 x 2	
8	*	2	O-RING	37,77 x 2,62	

POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 101 476		WATER VALVE KIT HOT		Includes pos. 2-8
1	V100 101 474	4	WATER VALVE CAB		
2	*	4	WATER VALVE SEAT		
3	*	4	WATER VALVE DISK		
4	*	4	O-RING	31,42 x 2,62	
5	*	2	SPRING	Pressure valve	
6	*	2	SPRING	Suction valve	
7	*	2	O-RING	27 x 2	
8	*	2	O-RING	37,77 x 2,62	

* Not sold separately. Available only in kit or assembly described above or presented in separate part list.
Read Details 2

O-rings are also available in Seal kit, see page 12.

8. SCREW KIT



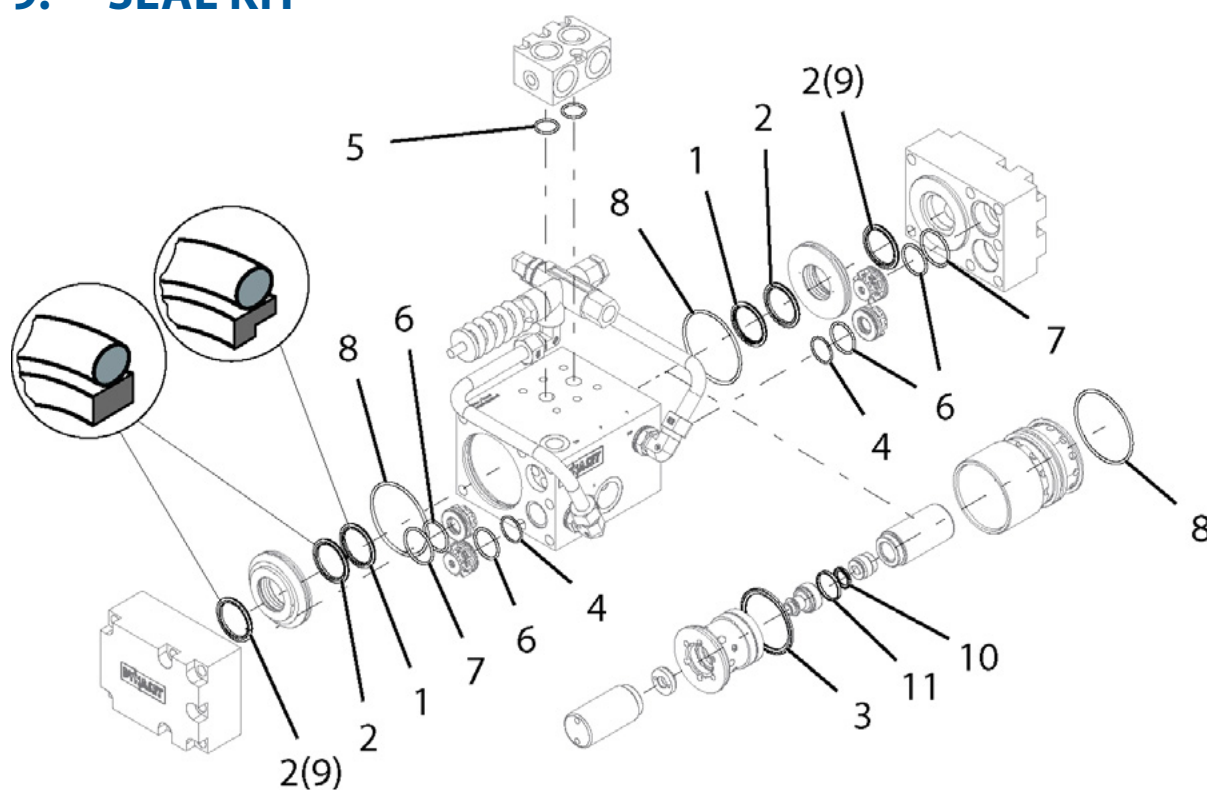
POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 101 479		SCREW KIT		Includes pos. 1-2
1	*	4	HEXAGON SOCKET CAP SCREW	M8 x 45	
2	*	14	HEXAGON SOCKET CAP SCREW	M12 x 65	

POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 101 490		SCREW KIT M		Includes pos. 1-2
1	*	4	HEXAGON SOCKET CAP SCREW	M8 x 45	Stainless steel
2	*	14	HEXAGON SOCKET CAP SCREW	M12 x 65	Stainless steel

* Not sold separately. Available only in kit or assembly described above or presented in separate part list.
Read Details 2

NOTE! Tightening torques can be found in user manual.

9. SEAL KIT



SPARE PARTS

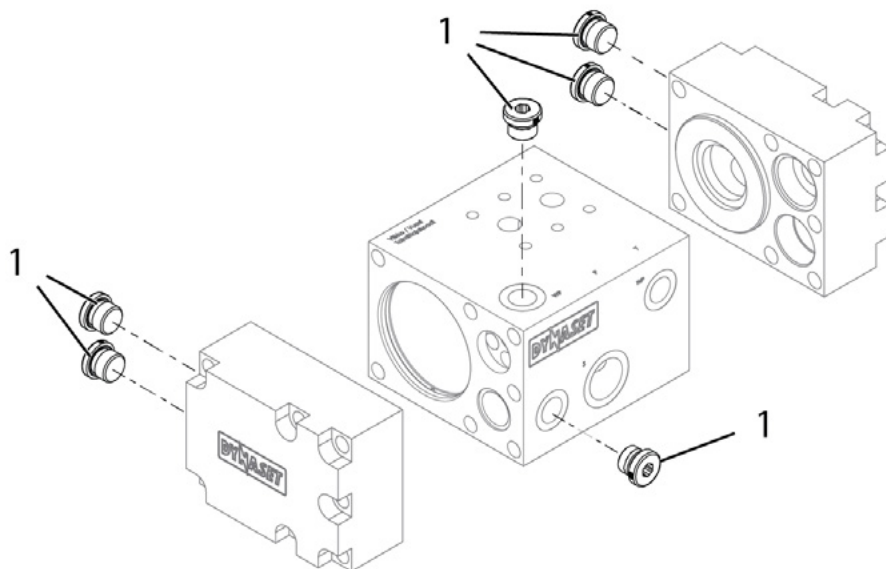
POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 101 395		SEAL KIT		Includes pos. 1-8
1	*	2	WATER PISTON SEAL	1T	Includes O-ring
2	*	4	WATER PISTON SEAL	2T	Includes O-ring
3	*	1	PISTON SEAL ASSEMBLY	M75	
4	*	2	O-RING	27 x 2	
5	*	2	O-RING	21,3 x 2,4	
6	*	4	O-RING	31,42 x 2,62	
7	*	2	O-RING	37,77 x 2,62	
8	*	3	O-RING	79,5 x 3	

POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 101 397		SEAL KIT HOT		Includes pos. 1-9
1	*	2	WATER PISTON SEAL	1T	Includes O-ring
2	*	2	WATER PISTON SEAL	2T	Includes O-ring
3	*	1	PISTON SEAL ASSEMBLY	M75	
4	*	2	O-RING	27 x 2	
5	*	2	O-RING	21,3 x 2,4	
6	*	4	O-RING	31,42 x 2,62	
7	*	2	O-RING	37,77 x 2,62	
8	*	3	O-RING	79,5 x 3	
9	*	2	WATER PISTON SEAL	2T, green, water side	Includes O-ring

POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 101 125		SEAL KIT HYDRAULIC PISTON		Includes pos. 4, 10, 11
3	*	1	PISTON SEAL ASSEMBLY	M75	Includes o-ring
10	*	1	PISTON SEAL ASSEMBLY	M24	Includes o-ring
11	*	1	ROD SEAL	30/33-3	

* Not sold separately. Available only in kit or assembly described above or presented in separate part list.
Read Details 2

10. PLUG KIT

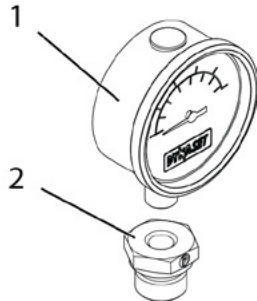


POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 101 495		PLUG KIT		Includes pos. 1
1	*	6	HEXAGON SOCKET CAP PLUG	R1/2	

POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 101 496		PLUG KIT M		Includes pos. 1
1	*	6	HEXAGON SOCKET CAP PLUG	R1/2	Stainless steel

* Not sold separately. Available only in kit or assembly described above or presented in separate part list.
Read Details 2

11. PRESSURE GAUGE

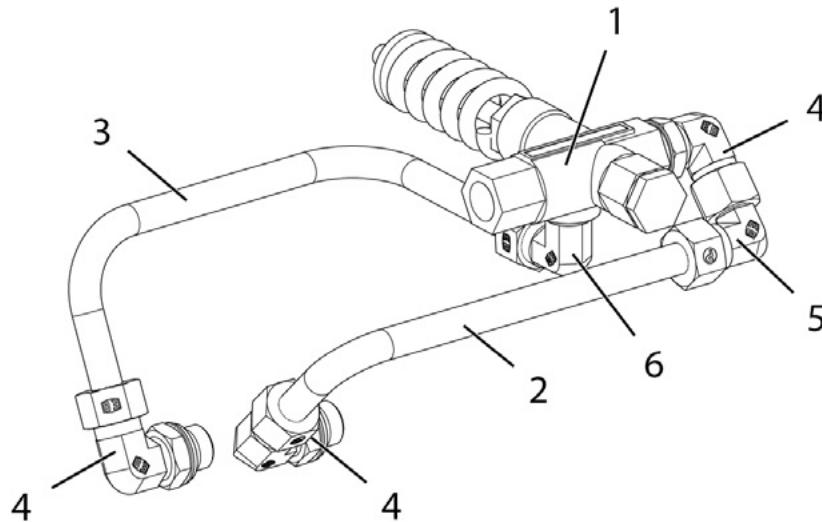


POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 101 486		PRESSURE GAUGE KIT		Includes pos. 1-2
1	V100 101 485	1	PRESSURE GAUGE	D63 - 250 bar	
2	*	1	REDUCTION	1/2u - 1/4	

POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 101 487		PRESSURE GAUGE KIT M		Includes pos. 1-2
1	V100 101 485	1	PRESSURE GAUGE	D63 - 250 bar	
2	*	1	REDUCTION	1/2u - 1/4	Stainless steel

* Not sold separately. Available only in kit or assembly described above or presented in separate part list.
Read Details 2

12. UNLOADER VALVE



POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 102 810		UNLOADER VALVE KIT		Includes pos. 1-6
1	V100 102 815	1	UNLOADER VALVE	310 bar	
2	*	1	PIPE ASSEMBLY	Pressure	
3	*	1	PIPE ASSEMBLY	Bypass	
4	*	3	ADJUSTABLE ELBOW COUPLING	15L R1/2	
5	*	1	ADJUSTABLE ELBOW COUPLING	15L	
6	*	1	ELBOW MALE COUPLING	15L RK1/2	
	V100 102 822		UNLOADER VALVE PIPE ASSEMBLY	STD	Includes pos. 2-3
	V100 102 820		UNLOADER VALVE INSTALLATION KIT		Includes pos. 2-6

POS	PART NUMBER	QTY	DESCRIPTION	DETAILS	DETAILS 2
	V100 102 812		UNLOADER VALVE KIT - M		Includes pos. 1-6
1	V100 102 815	1	UNLOADER VALVE	310 bar	
2	*	1	PIPE ASSEMBLY M	Pressure	Stainless Steel
3	*	1	PIPE ASSEMBLY M	Bypass	Stainless Steel
4	*	3	ADJUSTABLE ELBOW COUPLING	15L R1/2	Stainless Steel
5	*	1	ADJUSTABLE ELBOW COUPLING	15L	Stainless Steel
6	*	1	ELBOW MALE COUPLING	15L RK1/2	Stainless Steel
	V100 102 823		UNLOADER VALVE PIPE ASSEMBLY M		Includes pos. 2-3
	V100 102 821		UNLOADER VALVE INSTALLATION KIT M		Includes pos. 2-6

* Not sold separately. Available only in kit or assembly described above or presented in separate part list.
Read Details 2



HPW 220 /50-70

SPARE PARTS



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ELECTRICITY

HG Hydraulic Generator
HGV POWER BOX Variable Hydraulic Generator System
HGV Variable Hydraulic Generator System
HWG Hydraulic Welding Generator
HGG Hydraulic Ground Power Generator



HIGH PRESSURE WATER

HPW Hydraulic High Pressure Water Pump
HPW Hydraulic Power Washer
KPL High Pressure Street Washing Unit
HPW-DUST High Pressure Dust Suppression System
PPL High Pressure Pipe Cleaning Unit
HPW-FIRE High Pressure Firefighting System
FP Fire Fighting Piercing Kit
HDF Hydraulic Drilling Fluid Pump
JPL High Pressure Bin Washing System
HSP Hydraulic Submersible Pump



COMPRESSED AIR

HK Hydraulic Piston Compressor
HKL Hydraulic Rotary Vane Compressor
HKR Hydraulic Screw Compressor



MAGNET POWER

HMG PRO Hydraulic Magnet Generator
MAG Lift Magnet
HMAG PRO Hydraulic Magnet



VIBRATION

HVB Hydraulic Vibration Pump
HVD Hydraulic Directional Vibra
HVC Hydraulic Vibration Compactor
HRC Hydraulic Reversal Cylinder



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