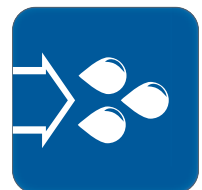


DATA SHEET

HIGH PRESSURE WATER PUMPS



HPW 90 /150-85	HPW 220 /50-70	HPW 360 /220-360	HPW 800 /30-140
HPW 130 /180-140	HPW 250 /30-40	HPW 420 /20-50	HPW 1000 /30-140
HPW 180 /90-115	HPW 300 /300-350	HPW 460 /50-115	HPW 1200 /100-440
HPW 200 /30-45	HPW 320 /75-125	HPW 520 /30-85	HPW 1600 /15-140

DYNASET_HP_WD_DATASHEET_MEA-V.B.1.0

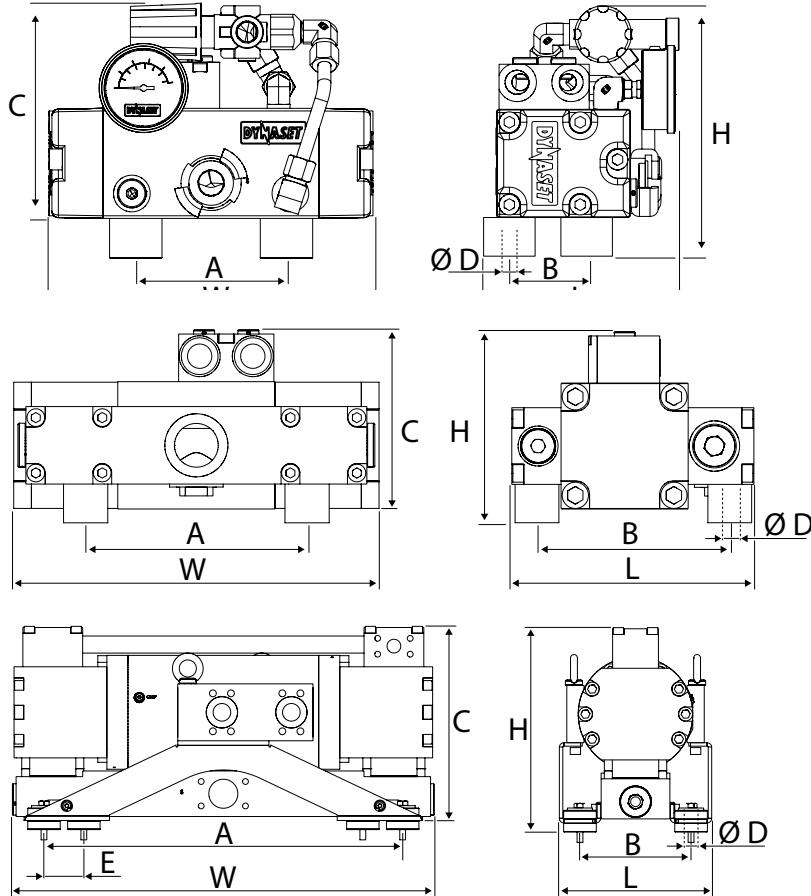
HIGH PRESSURE WATER PUMPS

DYNASET HPW high pressure water pump transforms the hydraulic power of a work machine effectively into high pressure water power. Because of high pressure, the pump gives great water power with a small amount of water. To ease up the use of the pump; pump is self-priming, requiring no feed pressure.

Small size, light weight, durable construction and low water consumption make the HPW pump very cost effective. The patented design of the pump is completely free of rotating parts. Compared to other pumps of the same power, the HPW pump is only fraction in size. It can be installed practically in any space in the work machine. The power range of pumps available covers all needs.

The HPW pump is an excellent tool in daily cleaning work and other works, where reliable high pressure water is needed. It is also powerful enough for industrial applications, dust suppression, fire fighting, hydro scaling and other demanding applications.

DIMENSIONS



MODEL	DIMENSIONS, mm (in)								WEIGHT
	L	W	H	A	B	C	D	E	kg (lbs)
HPW 90 /150-85-PA	175 (6.9)	345 (13.6)	250 (9.8)	252 (9.9)	95 (3.7)	250 (9.8)	M10	-	31 (68.3)
HPW 130 /180-140-PA	175 (6.9)	400 (15.7)	270 (10.6)	250 (9.8)	95 (3.7)	270 (10.6)	M10	-	35 (77.2)
HPW 180 /90-115-PA	240 (9.4)	330 (13.0)	175 (6.9)	200 (7.9)	175 (6.9)	160 (6.3)	M10	-	28 (61.7)
HPW 200 /30-45-ST	160 (6.3)	245 (9.6)	165 (6.5)	115 (4.5)	60 (2.4)	135 (5.3)	M8	-	8 (17.6)
HPW 220 /50-70-PA	170 (6.7)	280 (11.0)	185 (7.2)	126 (4.7)	106 (4.2)	153 (6.0)	M8	-	18 (39.6)
HPW 250 /30-40-ST	167 (6.6)	238 (9.4)	179 (7.0)	115 (4.5)	60 (2.4)	146 (5.7)	M8	-	11 (24.3)
HPW 300 /300-350*	270 (10.6)	745 (29.3)	360 (14.2)	630 (24.8)	194 (7.5)	340 (13.4)	16 (0.6)	70 (2.8)	170 (374.7)
HPW 320 /75-125 *	250 (9.8)	344 (13.5)	282 (11.1)	155 (6.1)	155 (6.1)	220 (8.7)	M8	-	32 (70.4)
HPW 360 /220-360*	270 (10.6)	745 (29.3)	360 (14.2)	630 (24.8)	194 (7.5)	340 (13.4)	16 (0.6)	70 (2.8)	170 (374.7)
HPW 420 /20-50	160 (6.3)	245 (9.6)	155 (6.1)	115 (4.5)	60 (2.4)	125 (4.9)	M8	-	16 (35.2)
HPW 460 /50-115	195 (7.7)	314 (12.2)	197 (7.8)	155 (6.1)	155 (6.1)	167 (6.6)	M8	-	32 (70.5)
HPW 520 /30-85	140 (5.5)	290 (11.4)	175 (6.9)	115 (4.5)	80 (3.1)	145 (5.7)	M8	-	22 (48.5)
HPW 800 /30-140*	195 (7.6)	340 (13.3)	195 (7.6)	110 (4.3)	65 (2.6)	165 (6.5)	M8		39 (85.9)
HPW 1000 /30-140*	168 (6.6)	379 (15.6)	194 (7.6)	110 (4.3)	64 (2.5)	164 (6.5)	M8		39 (85.9)
HPW 1200 /100-440*	265 (10.4)	915 (36)	350 (13.8)	630 (24.8)	194 (7.5)	335 (13.2)	16 (0.6)	70 (2.8)	177 (390.2)
HPW 1600 /15-140*	195 (7.6)	405 (15.9)	160 (6.3)	155 (6.1)	155 (6.1)	120 (4.7)	M10	-	36 (79.3)

* Without Unloader valve

PARAMETERS

		HPW 200 /30-45	HPW 250 /30-40	HPW 420 /20-50	HPW 220 /50-70	HPW 90 /150-85	HPW 520 /30-85	HPW 180 /90-115
DISCHARGE CHARACTERISTICS								
Pumping fluid flow max.	l/min (gpm)	30 (7.9)	30 (7.9)	20 (5.3)	50 (13.2)	150 (39.6)	30 (7.9)	90 (23.8)
Pressure max.	bar (psi)	200 (2900)	250 (3600)	420 (6100)	220 (3200)	90 (1300)	520 (7500)	180 (2600)
Power	kW	10	12,5	14	18,5	22,5	26	27
Water/hydraulic pressure ratio		1,18	1,18	2,12	1,26	0,52	2,62	1,12
HYDRAULIC POWER REQUIREMENTS								
Oil flow max.	l/min (gpm)	40 (10.6)	40 (10.6)	50 (13.2)	70 (18.5)	85 (22.5)	85 (22.5)	115 (30.4)
Operating pressure	Δp. bar (psi)	210 (3000)	250 (3600)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)
Pressure max.	bar (psi)	210 (3100)	260 (3800)	220 (3200)	210 (3100)	210 (3100)	250 (3600)	210 (3100)
PUMPING FLUID REQUIREMENTS								
Suction head max	m (ft)	3 (9.8)						
Feed pressure	bar (psi)	-0,3...16 (-4.4...232)						
Water filter	mesh	80 or better						
HYDRAULIC FLUID REQUIREMENTS								
Viscosity	cSt	10-200 / optimum 25-35						
Temperature *	° C (° F)	max. 70 (158)						
Filter ratio	µm	25 or better						
Cooling capacity requirement	kW	2	2,5	2	3	4	4	6

Gallons are U.S. liquid gallons

* Depending on hydraulic fluid.

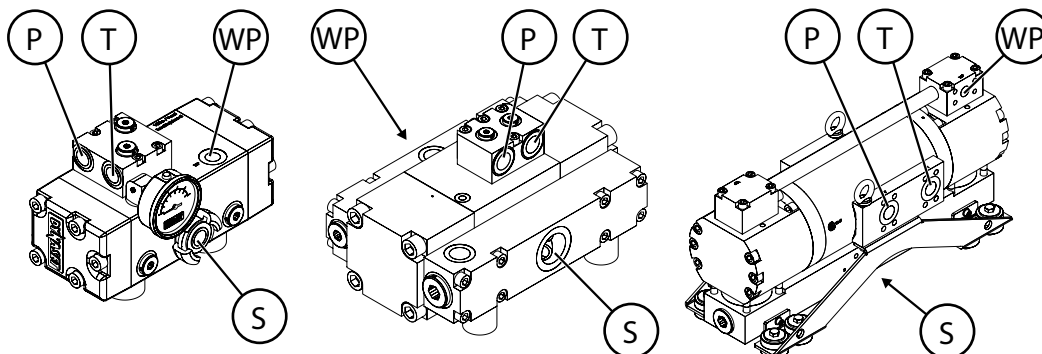


HIGH PRESSURE WATER PUMPS

DATA SHEET

HPW 460 /50-115	HPW 320 /75-125	HPW 130 /180-140	HPW 800 /30-140	HPW 1600 /15-140	HPW 1000 /30-140	HPW 360 /220-360	HPW 300 /300-350	HPW 1200 /100-440
50 (13.2)	75 (19.8)	180 (47.5)	30 (7.9)	15 (4.0)	30 (7.9)	220 (58.0)	300 (79.2)	100 (26.4)
460 (6700)	320 (4600)	130 (1900)	800 (11603)	1600 (23200)	1000 (14500)	360 (5200)	300 (4300)	1200 (17400)
38	40	39	40	40	50	132	150	200
2,03	1,5	0,68	4	7,87	4	1,5	1,06	4
115 (30.4)	125 (33.0)	140 (37.0)	140 (37.0)	140 (37.0)	140 (37.0)	360 (95.0)	350 (92.5)	440 (116.0)
240 (3500)	240 (3500)	240 (3500)	210 (3100)	230 (3300)	260 (3800)	250 (3600)	350 (5100)	300 (4300)
250 (3600)	250 (3600)	250 (3600)	210 (3100)	230 (3300)	280 (4100)	250 (3600)	350 (5100)	350 (5100)
3 (9.8)			2 (6.5)	-	-	3 (9.8)		-
-0,3...16 (-4.4...232)			-0,2...16 (-2.9...232)	3...16 (43.5...232)	3...20 (43.5...290)	-0,3...16 (-4.4...230)	-0,3...16 (-4.4...232)	3...16 (43.5...232)
80 or better				625 or better		80 or better		625 or better
10-200 / optimum 25-35								
max. 70 (158)								
25 or better								
5	6	6	6	6	8	25	30	35

CONNECTION PORTS



MODEL	PRESSURE LINE	RETURN LINE	SERVICE LINE	WATER OUTPUT	WATER INPUT
	P	T	CMP	WP	S
HPW 90 /150-85	BSP 3/4"	BSP 3/4"	BSP 1/8"	BSP 1"	BSP 2"
HPW 130 /180-140	BSP 3/4"	BSP 3/4"	BSP 1/8"	BSP 1"	BSP 2"
HPW 180 /90-115	BSP 3/4"	BSP 3/4"	BSP 1/8"	BSP 3/4"	BSP 1 1/4"
HPW 200 /30-45	BSP 1/2"	BSP 1/2"	-	BSP 3/8"	BSP 3/4"
HPW 220 /50-70	BSP 3/4"	BSP 3/4"	-	BSP 1/2"	BSP 1"
HPW 250 /30-40	BSP 1/2"	BSP 1/2"	-	BSP 3/8"	BSP 3/4"
HPW 300 /300-350	SAE 6000 1 1/4"	SAE 6000 1 1/4"	BSP 1/8"	SAE 6000 1" (BSP 3/4")	SAE 3000 2"
HPW 320 /75-125	BSP 3/4"	BSP 3/4"	-	BSP 1/2"	BSP 1 1/4"
HPW 360 /220-360	SAE 6000 1 1/4"	SAE 6000 1 1/4"	BSP 1/8"	SAE 6000 1" (BSP 3/4")	SAE 3000 2"
HPW 420 /20-50	BSP 1/2"	BSP 1/2"	-	BSP 3/8"	BSP 3/4"
HPW 460 /50-115	BSP 3/4"	BSP 3/4"	BSP 1/8"	BSP 1/2"	BSP 1"
HPW 520 /30-85	BSP 3/4"	BSP 3/4"	BSP 1/8"	BSP 3/8"	BSP 3/4"
HPW 800 /30-140	BSP 3/4"	BSP 3/4"	BSP 1/8"	BSP 3/8"	BSP 3/4"
HPW 1000 /30-140	BSP 3/4"	BSP 3/4"	BSP 1/8"	MP 9/16"	BSP 3/4"
HPW 1200 /100-440	SAE 6000 1 1/4"	SAE 6000 1 1/4"	BSP 1/8"	MP 3/4"	SAE 3000 2"
HPW 1600 /15-140	BSP 3/4"	BSP 3/4"	BSP 1/8"	HP 1/4"	BSP 1/2"