POWERED BY HYDRAULICS

DATA SHEET

HYDRAULIC DRILLING FLUID PUMP

JMA
08/22
rev 1.4

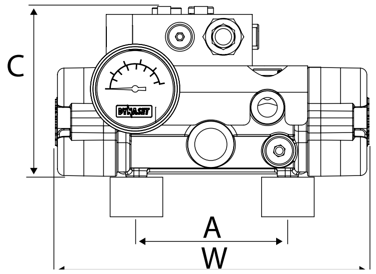
HDF 40 /40-8	**HDF 210 /23-35**
HDF 90 /150-85	**HDF 200 /40-55**
HDF 160 /70-90	**HDF 250 /250-280**

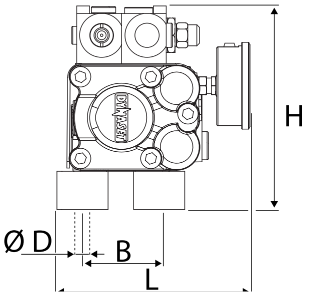
HYDRAULIC DRILLING FLUID PUMP

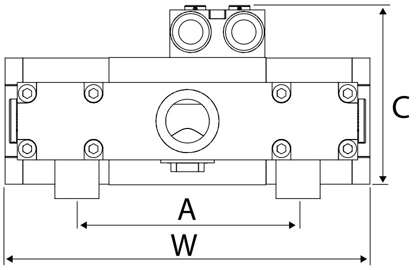
DYNASET HDF hydraulic drilling fluid pump transforms the hydraulic power of a work machine effectively into pumping power. Because of high pressure, the pump gives great pumping power with a small amount of pumping fluid. To ease up the use of the pump; pump is self-priming, requiring no feed pressure.

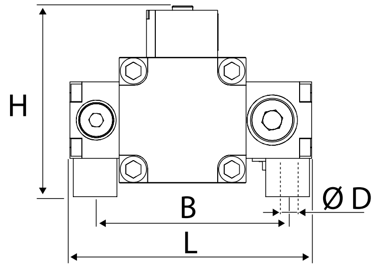
Small size, light weight, durable construction and low pumping fluid consumption make the HDW pump very cost effective. The patented design of the pump is completely free of rotating parts. Because of the compact size it can be installed practically in any space in the work machine. The power range of pumps available covers all needs.

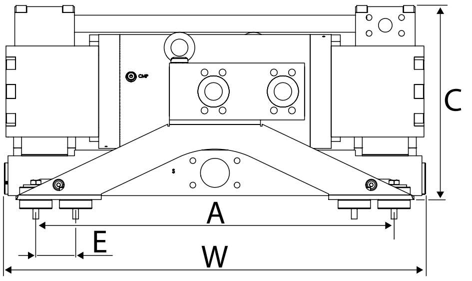
DIMENSIONS

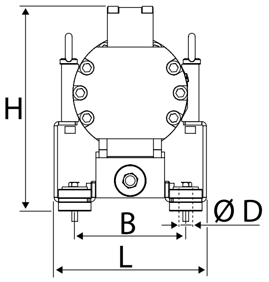












MODEL	DIMENSIONS, mm (in)								WEIGHT
	L	W	H	A	B	C	D	E	kg (lbs)
HDF 40 /40-8	190 (7.5)	315 (12.4)	170 (6.7)	90 (3.5)	80 (3.1)	140 (5.5)	M8	-	8 (17.6)
HDF 90 /150-85	175 (6.9)	345 (13.6)	250 (9.8)	252 (9.9)	95 (3.7)	250 (9.8)	M10	-	30 (66.1)
HDF 160 /70-90	220 (8.7)	330 (13.0)	180 (7.1)	200 (7.9)	175 (6.9)	160 (6.3)	M10	-	28 (61.7)
HDF 210 /23-35	151 (5.9)	238 (9.4)	155 (6.1)	115 (4.5)	60 (2.4)	125 (4.9)	M8	-	11 (24.3)
HDF 200 /40-55	170 (6.7)	280 (11.0)	185 (7.3)	126 (4.7)	106 (4.2)	153 (6.0)	M8	-	18 (39.6)
HDF 250 /250-280	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 (374.8)

PARAMETERS

		HDF 40 /40-8	HDF 210 /23-35	HDF 200 /40-55
DISCHARGE CHARACTERISTICS				
Pumping fluid flow max.	**l/min (gal)**	40 (10.6)	23 (6.1)	40 (10.6)
Pressure max.	**bar (psi)**	40 (580)	210 (3000)	200 (2900)
Power	**kW**	2,6	8	13
Fluid/hydraulic pressure ratio		0,2	1,18	1,26
HYDRAULIC POWER REQUIREMENTS				
Oil flow max.	**l/min (gpm)**	8 (2.1)	35 (9.3)	55 (14.5)
Operating pressure	**Δp. bar (psi)**	190 (2700)	220 (3200)	190 (2700)
Pressure max.	**bar (psi)**	210 (3000)	250 (3600)	210 (3000)
PUMPING FLUID REQUIREMENTS				
Suction head max	**m (ft)**	3 (9.8)		
Feed pressure	**bar (psi)**	-0,3...16 (-4,3...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	3

Gallons are U.S. liquid gallons

* Depending on hydraulic fluid.

HYDRAULIC DRILLING FLUID PUMP

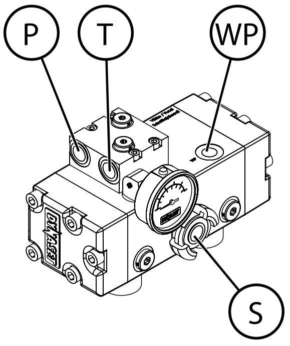
DATA SHEET

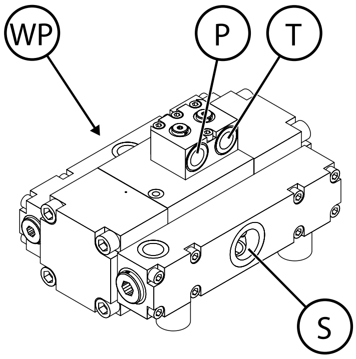
		HDF 160 /70-90	HDF 90 /150-85	HDF 250 /250-280
DISCHARGE CHARACTERISTICS				
Pumping fluid flow max.	**l/min (gal)**	70 (18.5)	150 (39.6)	250 (66.0)
Pressure max.	**bar (psi)**	160 (2300)	90 (1300)	250 (3600)
Power	**kW**	19	23	85
Fluid/hydraulic pressure ratio		1,12	0,52	1,06
HYDRAULIC POWER REQUIREMENTS				
Oil flow max.	**l/min (gpm)**	90 (23.8)	85 (22.5)	280 (74.0)
Operating pressure	**Δp. bar (psi)**	180 (2600)	190 (2700)	190 (2700)
Pressure max.	**bar (psi)**	210 (3000)		
PUMPING FLUID REQUIREMENTS				
Suction head max	**m (ft)**	3 (9.8)		
Feed pressure	**bar (psi)**	-0,3...16 (-4,3...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**	6	4	20

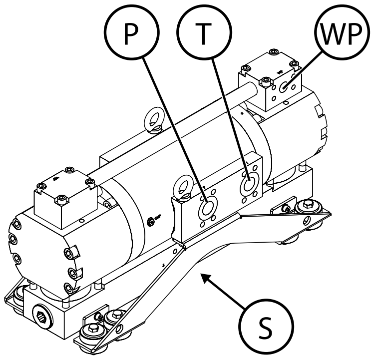
Gallons are U.S. liquid gallons

* Depending on hydraulic fluid.

CONNECTION PORTS







MODEL	PRESSURE LINE	RETURN LINE	SERVICE LINE	WATER OUTPUT	WATER INPUT
	P	**T**	**CMP**	**WP**	**S**
HDF 40 /40-8	BSP 1/2”	BSP 1/2”	-	BSP 1/2”	BSP 3/4”
HDF 90 /150-85	BSP 3/4”	BSP 3/4”	BSP1/8”	BSP 1”	BSP 2”
HDF 160 /70-90	BSP 3/4”	BSP 3/4”	BSP1/8”	BSP 3/4”	BSP 1 1/4”
HDF 210 /23-35	BSP 1/2"	BSP 1/2"	-	BSP 3/8"	BSP 3/4"
HDF 200 /40-55	BSP 3/4”	BSP 3/4”	-	BSP 1/2”	BSP 1”
HDF 250 /250-280	SAE 6000 1 1/4”	SAE 6000 1 1/4”	BSP1/8”	SAE 6000 1” (BSP 3/4")	SAE 3000 2”

DYNASET

POWERED BY HYDRAULICS

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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
HDF Hydraulic Drilling Fluid Pump
HPW-FIRE High Pressure Firefighting System
FP Firefighting Piercing Kit
JPL High Pressure Bin Washing System
HSP Hydraulic Submersible Pump

COMPRESSED AIR

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

VACUUM

HCF Hydraulic Centrifugal Fan
HRVB Hydraulic Recycling Vacuum Bucket

MAGNET POWER

HMG PRO Hydraulic Magnet Generator
MAG Lifting Magnet
HMAG PRO Hydraulic Magnet

VIBRATION

HVB Hydraulic Vibra
HVD Hydraulic Directional Vibra
HRC Hydraulic Reversal Cylinder

POWER BOOSTING

HPI Hydraulic Pressure Intensifier
HPIC Hydraulic Pressure Intensifier for Cylinder

KNOW-HOW

Hydraulic Power Take-off (PTO)
Installation Valves
HMV Hydraulic Modular Valve System
HHK Hydraulic Grinder
HV Hydraulic Winch & HVY Hydraulic Winch Unit
De-Icing Technology
HEU Hydraulic Expansion Unit
HPU Hydraulic Power Unit
HRU Hydraulic Rescue Unit

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