

A6HP High Pressure Piston Pump

High Pressure Hydraulic Piston Pumps, 600-700 Bar Working Pressure,
High Pressure, High Rotational Speed, High Efficiency, Slim Design.
Cast Iron Pump Body, Re-Designed in 2025.

Designation;

02 Lt. 04 Lt. 06 Lt.
12 Lt. 15 Lt. 22 Lt.



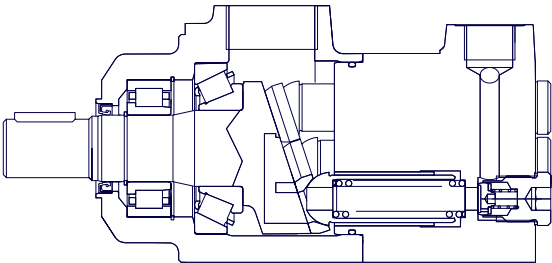
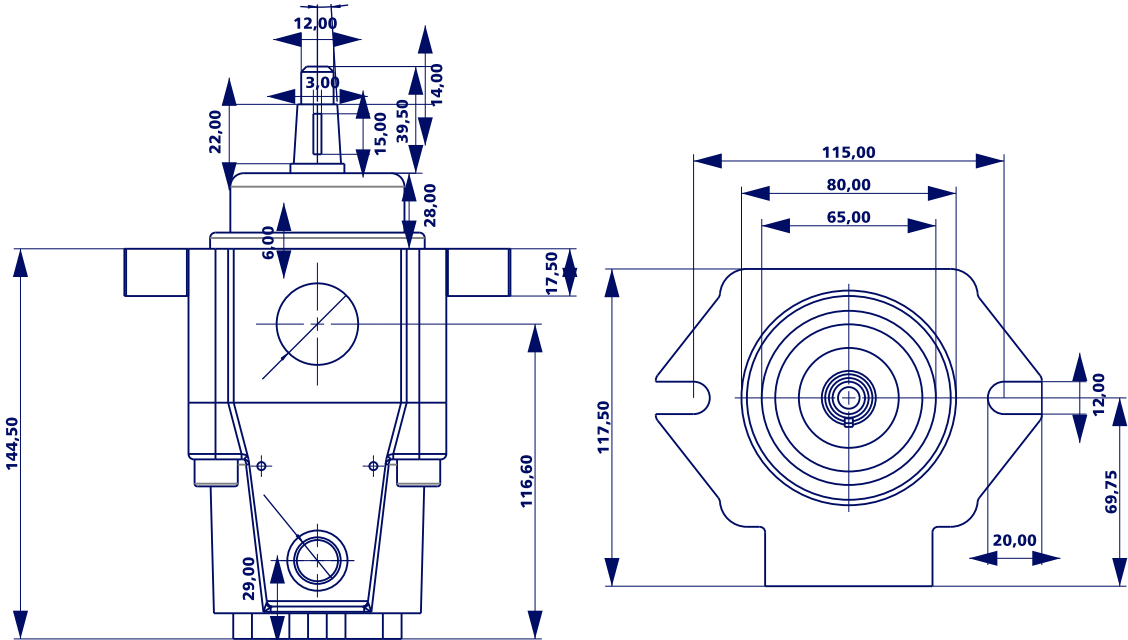
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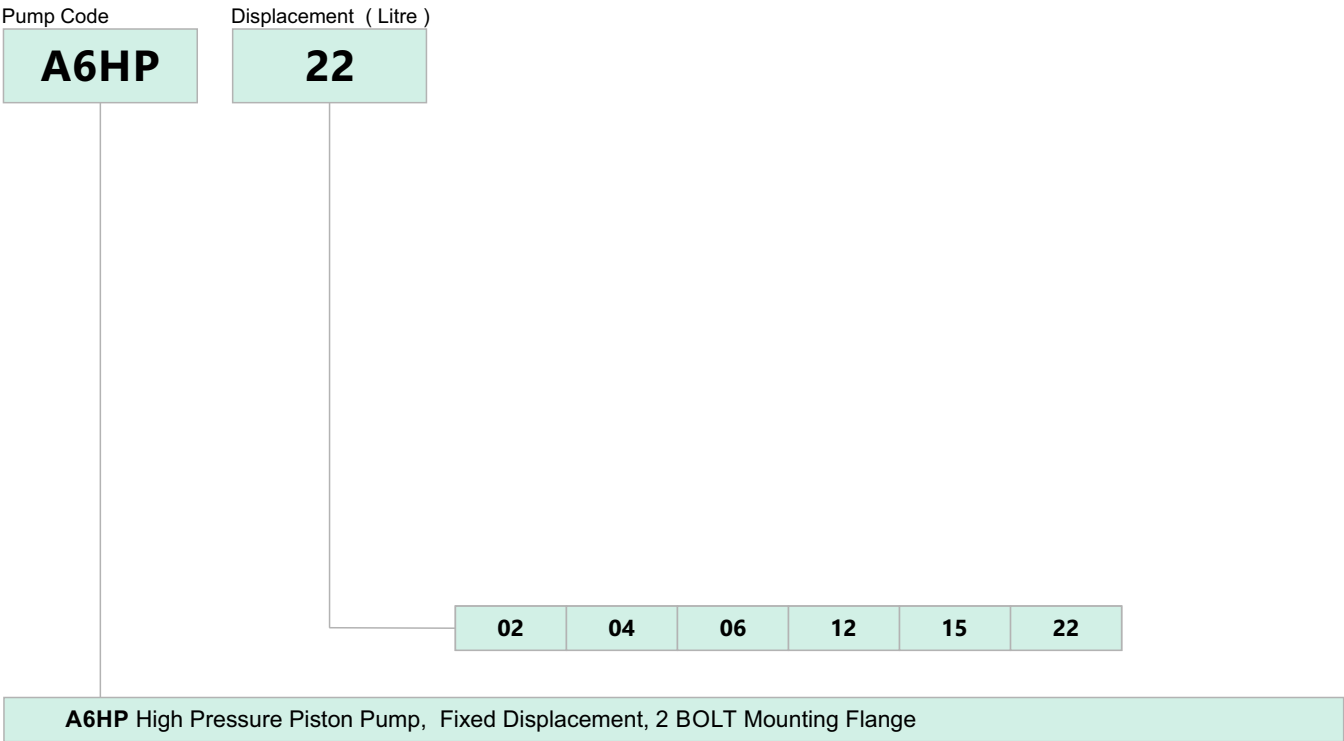
A6HP High Pressure

Hydraulic Piston Pumps

		02	04	06	12	15	22
Displacement	Litre	1,56	2,70	4,40	7,80	10,50	14,73
Theoretical oil flow l/min at pump speed	1000 rpm	1,56	2,70	4,40	7,80	10,50	14,73
	1500 rpm	2,34	4,05	6,60	11,70	15,75	22,09
Maximum Pump Speed							
- Continuous	rpm	3000	3000	3000	2800	2800	2800
- Limited	rpm	3500	3500	3500	3000	3000	3000
Max. Continuous Pressure	bar	600	600	600	450	400	400
Max. Peak Pressure	bar	700	700	700	500	500	500
Weight							
- Without inlet fitting	kg	5,50	5,50	5,50	8,00	8,00	8,00
- With inlet fitting	kg	5,60	5,60	5,60	8,15	8,15	8,15
Fluid		Mineral Based Hydraulic Oils					
Inlet		G 1"	G 1"	G 1"	G1 1/4"	G1 1/4"	G1 1/4"
Outlet		G 3/8"	G 3/8"	G 3/8"	G 1/2"	G 1/2"	G 1/2"



A6HP High Pressure
Hydraulic Piston Pumps

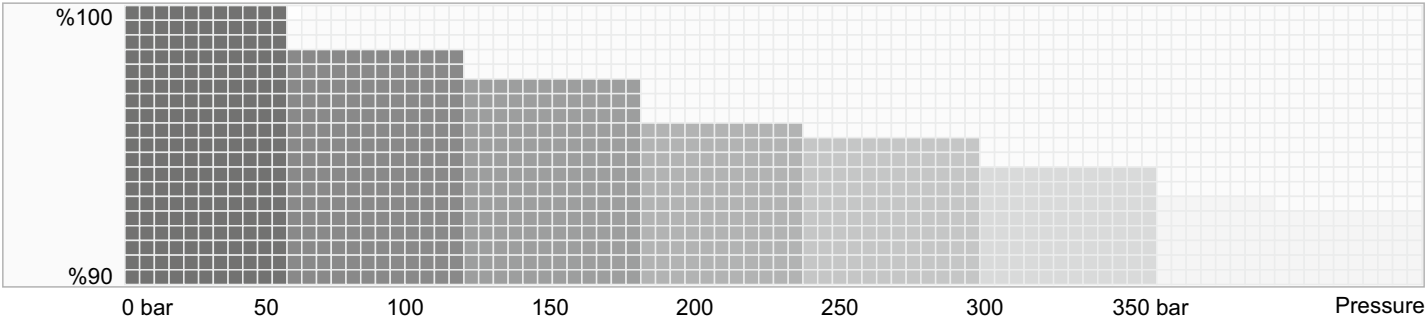


Formulas			
Pump Output Flow	GPM	$GPM = (Speed\ (rpm) \times disp.\ (cu.\ in.)) / 231$	$GPM = (n \times d) / 231$
Pump Input Horsepower	HP	$HP = GPM \times Pressure\ (psi) / 1714 \times Efficiency$	$HP = (Q \times P) / 1714 \times E$
Pump Efficiency	E	Overall Efficiency = Output HP / Input HP	$E_{overall} = HP_{out} / HP_{in} \times 100$
		Overall Efficiency = Volumetric Eff. $\times$ Mechanical Eff.	$E_{overall} = EffVol. \times EffMech.$
Pump Volumetric Efficiency	E	Volumetric Efficiency = Actual Flow Rate Output (GPM) / Theoretical Flow Rate Output (GPM) $\times$ 100	$EffVol. = Q_{act.} / Q_{theo.} \times 100$
Pump Mechanical Efficiency	E	Mechanical Efficiency = Theoretical Torque to Drive / Actual Torque to Drive $\times$ 100	$EffMech = T_{theo.} / T_{act.} \times 100$
Pump Displacement	CIPR	$Displcmnt\ (In.^3\ / rev.) = Flow\ Rate\ (GPM) \times 231 / Pump\ RPM$	$CIPR = GPM \times 231 / RPM$
Pump Torque	T	Torque = Horsepower $\times$ 63025 / RPM	$T = 63025 \times HP / RPM$
		Torque = Pressure (PSIG) $\times$ Pump Displacement (CIPR) / 2 π	$T = P \times CIPR / 6.28$

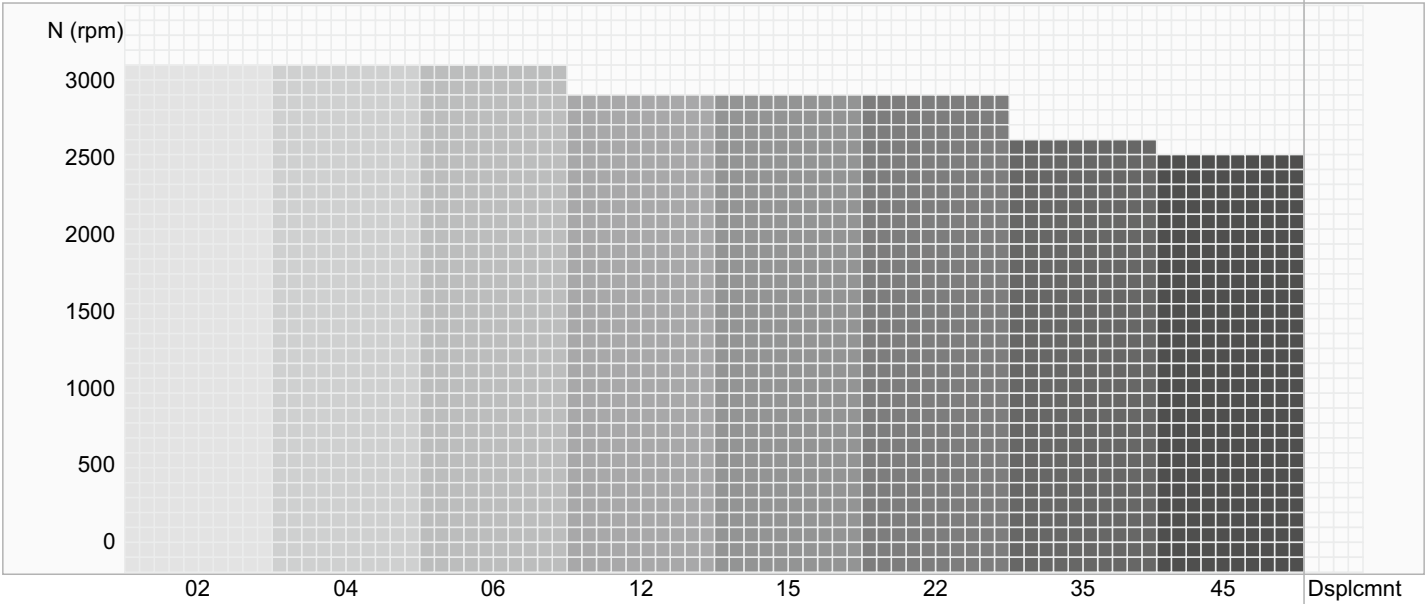
- Horsepower for driving a pump : For every 1 hp of drive, the equivalent of 1 gpm @ 1500 psi can be produced.
- Horsepower for idling a pump : To idle a pump when it is unloaded will require about 5% of it's full rated power
- Wattage for heating hydraulic oil : Each watt will raise the temperature of 1 gallon of oil by 1° F. per hour.
- Flow velocity in hydraulic lines : Pump suction lines 2 to 4 feet per second, pressure lines up to 500 psi - 10 to 15 ft./sec., pressure lines 500 to 3000 psi - 15 to 20 ft./sec.; all oil lines in air-over-oil systems; 4 ft./sec.

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Hydraulic Piston Pumps

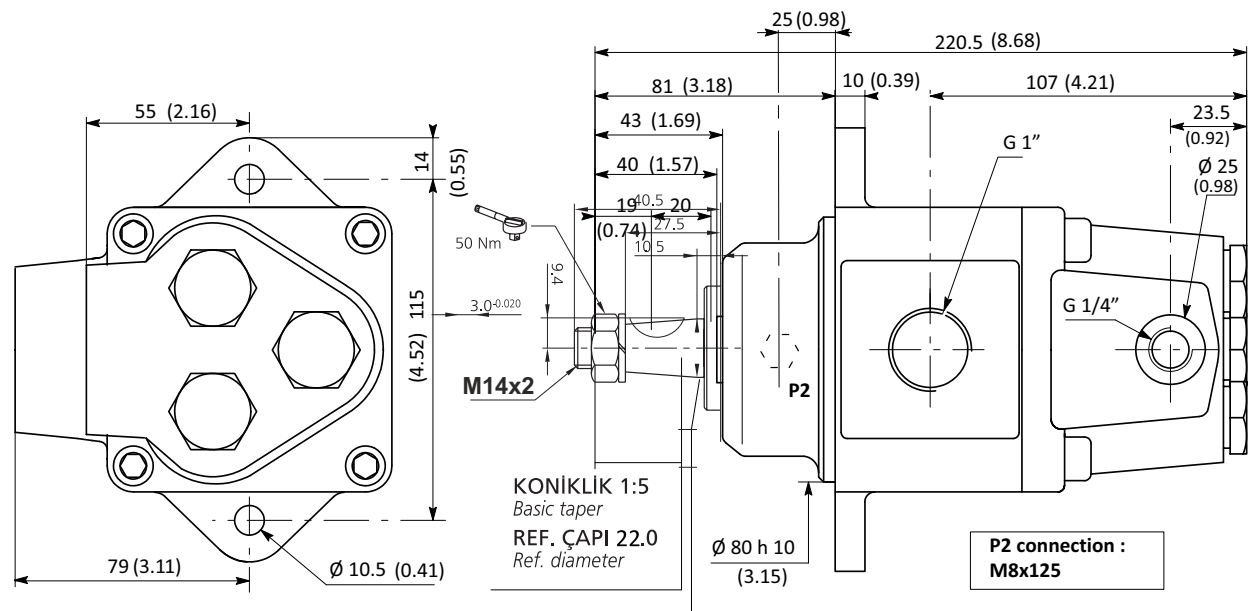
Efficiency Curves (1000 rpm)



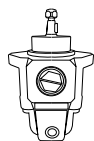
Flow



A6HP 12 Lt. - High Pressure Piston Pump



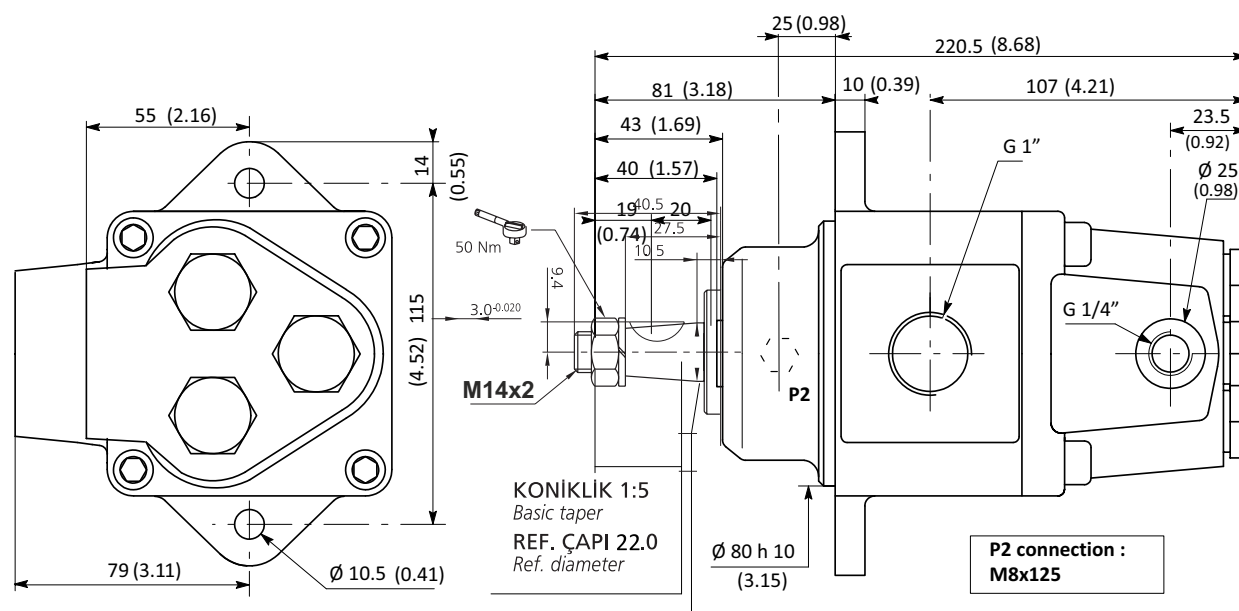
x 1000 rpm	7,80 Lt.
x 1500 rpm	11,70 Lt.
Max. Continuous Pump Speed	2800 rpm
Max. Limited Pump Speed	3000 rpm
Max. Continuous Pressure	450 bar
Max. Intermit. Peak Pressure	500 bar
Weight without inlet fitting	8,00 kg
Weight with inlet fitting	8,15 kg
Fluid	Min.B.Hyd.Oil
Inlet	G1 1/4"
Outlet	G 1/2"



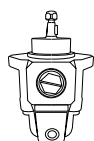
CW

Rotation :
Fixed-Clock Wise

A6HP 15 Lt. - High Pressure Piston Pump



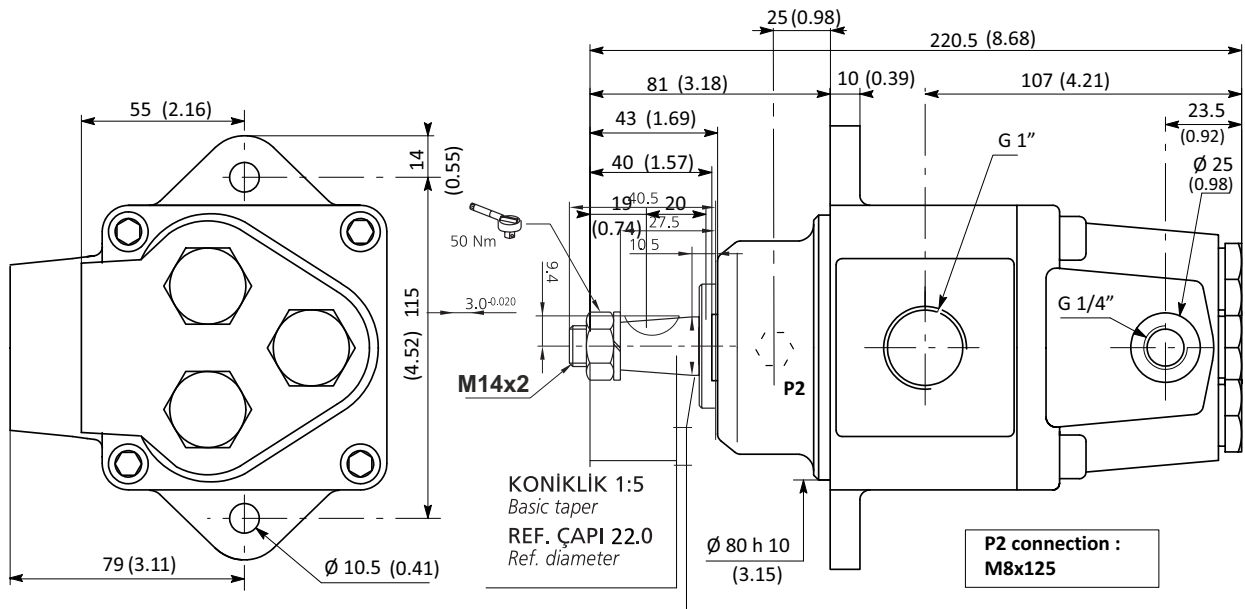
x 1000 rpm	10,50 Lt.
x 1500 rpm	15,75 Lt.
Max. Continuous Pump Speed	2800 rpm
Max. Limited Pump Speed	3000 rpm
Max. Continuous Pressure	400 bar
Max. Intermit. Peak Pressure	450 bar
Weight without inlet fitting	8,00 kg
Weight with inlet fitting	8,15 kg
Fluid	Min.B.Hyd.Oil
Inlet	G1 1/4"
Outlet	G 1/2"



CW

Rotation :
Fixed-Clock Wise

A6HP 22 Lt. - High Pressure Piston Pump



x 1000 rpm	14,73 Lt.
x 1500 rpm	22,09 Lt.
Max. Continuous Pump Speed	2800 rpm
Max. Limited Pump Speed	3000 rpm
Max. Continuous Pressure	400 bar
Max. Intermit. Peak Pressure	500 bar
Weight without inlet fitting	8,00 kg
Weight with inlet fitting	8,15 kg
Fluid	Min.B.Hyd.Oil
Inlet	G1 1/4"
Outlet	G 1/2"



CW

Rotation :
Fixed-Clock Wise

A6HP High Pressure Hydraulic Piston Pumps

High Pressure Piston Pumps designed for Industrial Area.

INSTALLATION

- Remove the protective covers off the inlet and output ports when connecting tubes or hosing.
- Rinse the tank and the tubes or hoses well to remove any possible contaminants.
- Before connecting up the pump inlet port, fill the tank and allow the oil to flow into a receptacle. This oil can be re-used after proper filtration.

OIL SUPPLY

Oil and supply line should be clean, and the supply line is airtight.

SUCTION LINE

Connect the suction line, tighten the suction connection bolts in diametric pairs.
Connect the pressure line.

REPAIR

We offers a comprehensive range of services for the repair of our Piston Pumps.
Repairs to the High Pressure Pump may only be performed by authorized, skilled and instructed personnel.
Only use original and pre-installed our spare parts from supplied to Manufacturer..

Tested and pre-installed pumps successful repair requiring only little time.

SPARE PARTS

The spare parts list and the pump order specific.
When ordering spare parts, quote the material and complete Ordering code number of the Piston Pump as well as the right numbers of the spare parts.

RISK OF DAMAGE!

Do not touch the drive shaft of the Piston Pump
Do not touch sensor, valves and fittings
Do not touch sealing surfaces.

DIMENSIONS & WEIGHTS

		02	04	06	12	15	22
- Without inlet fitting	kg	5,50	5,50	5,50	8,00	8,00	8,00
- With inlet fitting	kg	5,60	5,60	5,60	8,15	8,15	8,15

Address all questions regarding spare parts to your responsible Our Service Partner or the technical service department of the manufacture's plant / factory for the Piston Pumps.

**AVAILABLE VIA E-MAIL ON REQUEST OR EACH PUMP IS
SUPPLIED VIA STARTING AND INSTALLATION DATASHEETS**

Complete Product Range

Bent Axis Piston Motors

A9MD (DIN) Bent Axis Motors
A9MO (ISO) Bent Axis Motors
A9MS (SAE) Bent Axis Motors
A9ML (SAE2) Bent Axis Motors
A9MF (Fixed Plugin) Bent Axis Motors
A10M (HYBRID) Bent Axis Motors
A7GM Hydraulic Gear Motors
A7GMT Tandem Hydraulic Gear Motors

Bent Axis Piston Pumps

A8PA (Aluminum) Bent Axis Pumps
A8PD (DIN) Bent Axis Pumps
A8PO (ISO) Bent Axis Pumps
A8PS (SAE) Bent Axis Pumps
A8PF (Fixed Plugin) Bent Axis Pumps
A10 (HYBRID) Bent Axis Pumps
A11 (ISO2) Bent Axis Pumps
A11 (SAE2) Bent Axis Pumps

Variable Displacement Pumps

A12V Variable Displacement Piston Pumps

Dual Flow Piston Pumps

A8PL (DIN) Dual Flow Pumps

Axial Piston & Gear Pumps

A4PP Axial Hydraulic Piston Pumps
A6HP High Pressure Piston Pumps
A7GP Hydraulic Gear Pumps
A7GPT Tandem Hydraulic Gear Pumps

Valve (ByPass) (Flushing) (Cavitation)

Circulation Valve
ByPass Valve
Anti-Cavitation Valve
Flushing Valve
LS Valve
AntiShock Valve
Speed Sensor

Hydraulic Spare Parts

Suction Fittings
Couplars
Adapters
Flanges
Power Take Off
Monoblock Valve
Section Valve

Hydraulic Pumps, Motors

Bent Axis Hydraulic Piston Motors, Bent Axis Hydraulic Piston Pumps, Piston Pumps, Variable Displacement Piston Pumps, Variable Displacement Piston Motors, Axial Piston Pumps, High Pressure Piston Pumps, Gear Pumps, Gear Motors, Hydraulic Valve.

www.hydapac.com

Address;

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