

AQUA ENERGY AL HIGH PRESSURE

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INDUSTRIAL PLUNGER PUMP



PUMP SPECIFICATIONS

Rated Horsepower -----105
Number of cylinders -----3
Plunger Stroke -----mm60

Oil Capacity -----lt 10
Plunger Load ----- 3,045Kg
Pump Weight -----Kg 280

FLUID END

FLUID HEAD - Special high resistance stainless steel.

VALVES & SEATS – Valves made in stainless steel and bronze seats.

PLUNGERS - Solid ceramic plungers.

PACKING – Pressure Packing internal cooling system.
Double pressure packings

LUBRICATION - Plungers and Packing lubricated by water supply with water spill venting.

POWER END

POWER FRAME - High strength cast iron.

CRANKSHAFT - Hardened and tempered alloy steel.

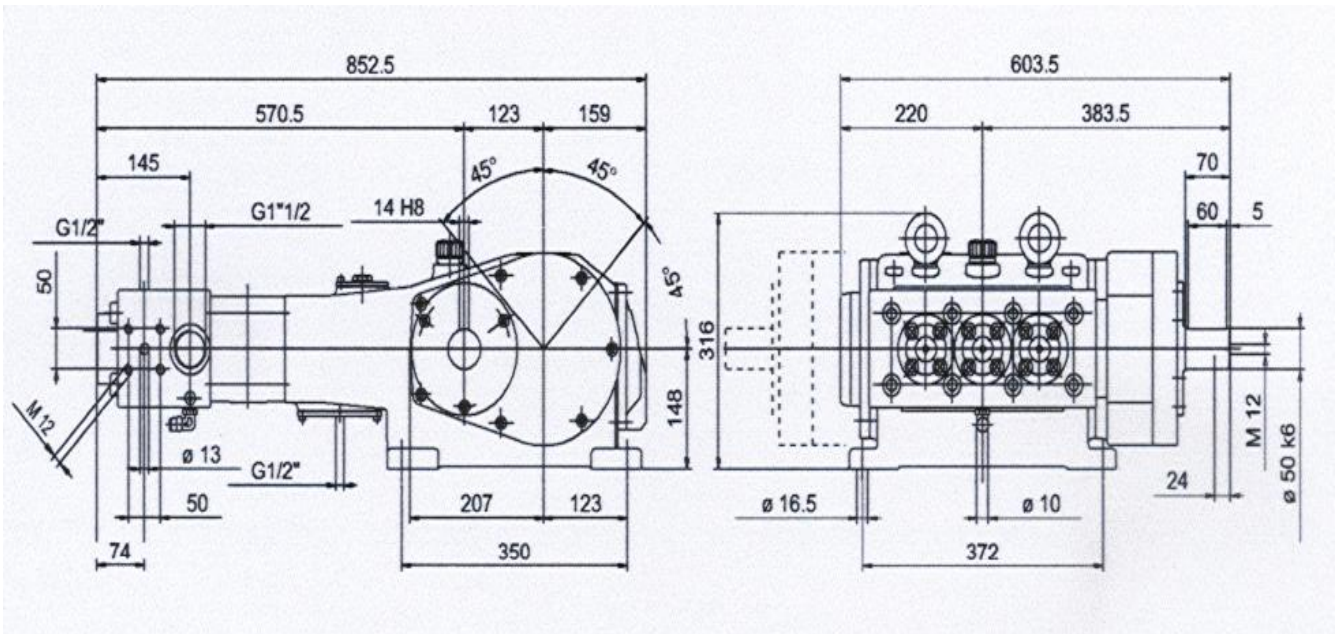
CRANKSHAFT BEARINGS - Double roller rim.

CONNECTING RODS - Surface treated spheroidal cast Iron.

REDUCTION GEAR - Internal 3.389:1 or 2.95: 1 reduction ratio gear from either side of pump.

LUBRICATION – Power end parts and gearbox are splash lubricated by oil in crankshaft reservoir.

AL SERIES



AL PUMP:

Maximum design pressure: **1,500bar** (21,750psi)

Maximum inlet pressure: **5 bar** (101.50 psi)

Minimum inlet pressure: **3 bar** (72.50 psi)

Standard connections: Suction ----- G 1-1/2"

Discharge ----- G 3/4"

Table of pump versions

Model	Volume	Gear box			Pressure			Power			Stroke	60mm
		A 2200rpm R=1.3,04	B 1800rpm R=1.2,417	C 1500rpm R=1.2,037				A 2200 rpm	B 1800 rpm	C 1500 rpm		
AL16	l/min	26	27	27	bar	1500	HP	101	105	105	Min Inlet Pressure	3 bar 45 psi
	gpm	6.9	7.1	7.1	psi	21750	kW	74.3	77.2	77.2		
AL18	l/min	33	34	34	bar	1200	HP	103	106	106	Max inlet Pressure	5 bar 75 psi
	gpm	8.7	9.0	9.0	psi	17400	kW	75.6	77.9	77.9		
AL20	l/min	41	42	42	bar	900	HP	96	99	99	Oil Capacity	10 lt
	gpm	10.8	11.1	11.1	psi	13050	kW	70.6	72.8	72.8		
AL22	l/min	49	51	50	bar	750	HP	96	100	100		
	gpm	12.9	13.5	13.2	psi	10800	kW	70.6	73.5	73.5		
AL24	l/min	59	61	60	bar	600	HP	92	95	94		
	gpm	15.6	16.1	15.8	psi	8700	kW	67.6	69.9	69.1		

A. Rated crankshaft speed 2200 = 723 rpm

B. Rated crankshaft speed 1800 = 745 rpm

C. Rated crankshaft speed 1500 = 736 rpm

Performance refers to theoretical delivery with 100% volumetric efficiency.

Under normal operating conditions, pump volumetric efficiency is over 95%.

Please contact our technical staff in case continuous and heavy-duty, or special applications.

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