

Jupiter

The Jupiter range is a slow-acting piston pump that is driven via a gearbox. This design has been specially developed to be applicable in industry, agriculture and well-being.

The Jupiter pump is self-priming up to max. 9.6 meters and is extremely suitable for full-continuous use.

Advantages of a Jupiter piston pump

- Constant water and air flow, independent of suction and discharge head
- Self-priming with a suction lift (vacuum) of 9.6 mWK without the aid of an separate power absorbing vacuum pump
- Permanent high efficiency minimizing energy consumption
- About twice as efficient as a conventional vacuum priming impeller pump
- Long lifespan
- Unprecedented high availability allowing continuous and unattended operation
- Large suction and pressure clock in the pump itself
- Original spare parts, available for life

Why choose a piston pump of Clasal

- Compact and light yet large in capacity, efficiency and lifespan
- Low energy consumption: less than 25% compared to a centrifugal pump
- Recuperation of groundwater leads to a smaller water bill

Jupiter piston pump can be used universally

- Well point dewatering
- Groundwater remediation
- Agriculture
- Shipbuilding – as bilge pump
- Pressure boosting - hydrophor



Pump specifications

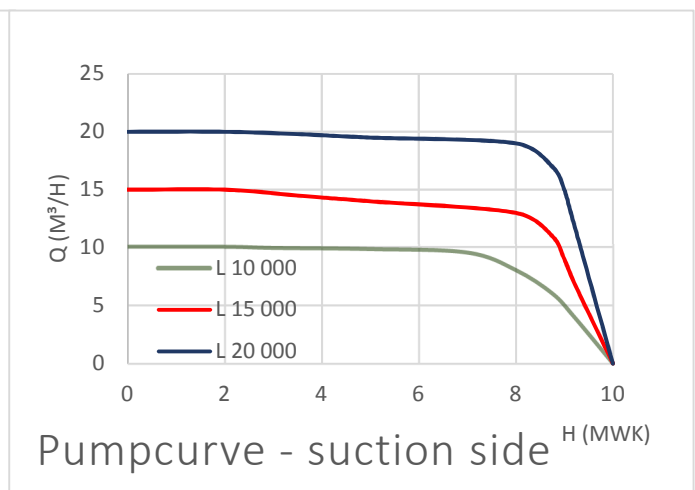
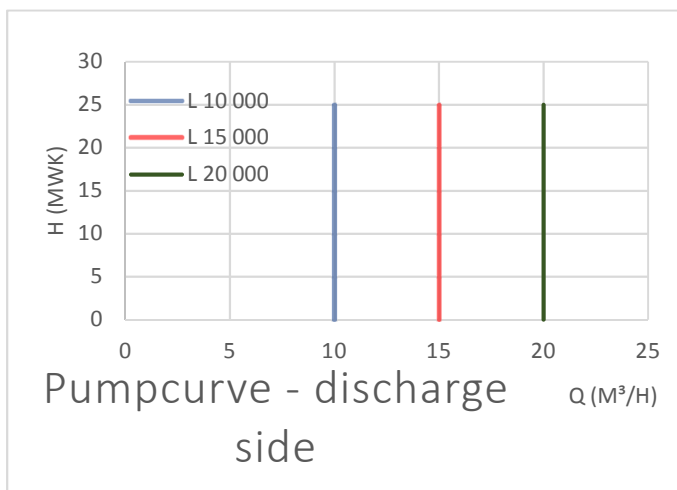
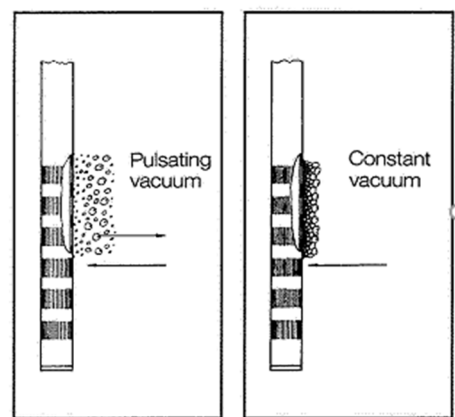
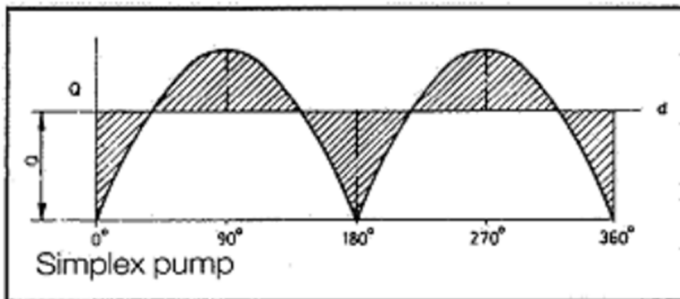
Type		L10000	L15000	L20000
Q (flow)	m ³ /h	10 000	15 000	20 000
Engine power	kW	2,2	2,2	2,2
Suction		2"	2 ½ "	3"
Discharge		2"	2 ½ "	3"
Dimensions lwxh	mm	1430x390x770	1430x390x770	1430x390x770

STANDARD TECHNICAL SPECIFICATIONS FOR THE JUPITER PUMP

Gearbox	Tough, compact construction with integral single helical precision gears
Lubrication	Automatic oil splash lubrication
Piston discs	Synthetic
Cylinders	Brass, thick walled
Piston rod	Wear- and corrosion resistant, stainless steel piston rods
Valves	Flat spring-loaded high quality valves
Valve seats	Brass
Gearbox, pump housing	Alloy cast iron
Cross head	Connected via a slide bearing with the crank shaft
Stuffing box packing	Soft rameh gasket, impregnated with teflon

Operational characteristics

Water, air or water and air mixtures are primed and discharged 2 times per crankshaft revolution. The crank timing produces a moderate pulsating type action in the dewatering line that prevents clogging of the wellpoint strainers and achieves priming from greater depths.





Well point dewatering

The main application of the Jupiter piston pump is as a well point dewatering pump. The level of the groundwater is often high in low-lying areas and in deltas with sandy soil. For the foundations of buildings and construction pits, pumps are needed with high suction capabilities, low energy consumption and minimum maintenance. With all these criteria met, the Jupiter piston pump is ideal for well point dewatering.



Groundwater remediation

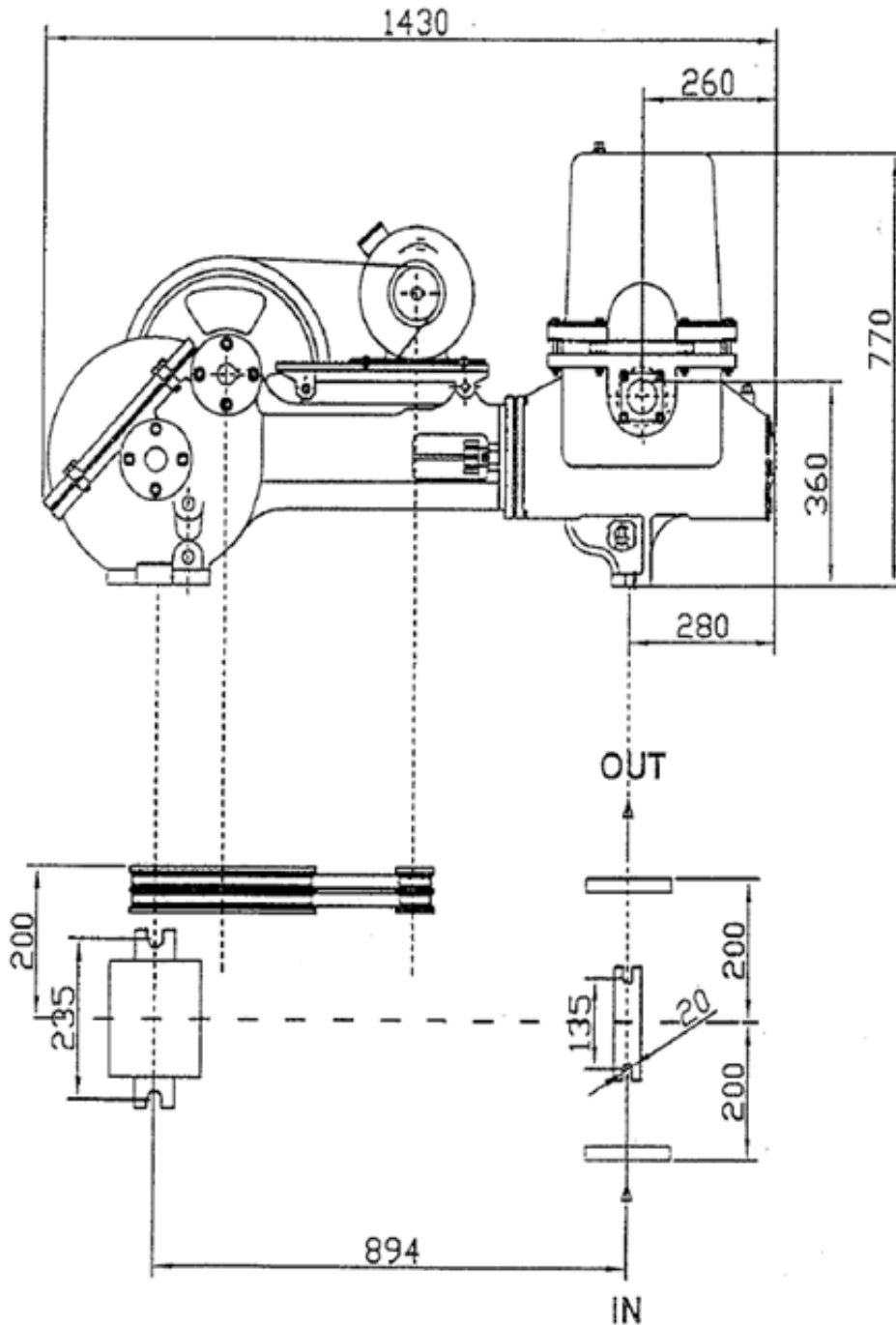
Clasal piston pumps are used for various types of soil decontamination:

- 1) The extraction of contaminated groundwater by means of well point dewatering or drains (pump & treat)
- 2) The lowering of the water table in order to create aerobic conditions, so that decomposing micro-organisms can become active. This method has the additional advantage of preventing further contamination of the groundwater.
- 3) Removal of organic pollution present on the surface of the groundwater. Piston pumps with a lower flow rate are often used for this application.



Shipbuilding industry

Clasal piston pumps are often used as bilge pumps onboard vessels ranging from small fisher boats to 36 000-tonne oil tankers. In this case the pumps are made of seawater-resistant material.



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