CLASAL
PUMP TECHNOLOGY

ZD 300 COMPACT
Electric driven

Pump specifications	
Type	ZD 300
Design	with gear casing
Max Capacity	28 - 35 m³/h
Max Discharge head	20 mwc
Max Suction head	9,6 mwc
Noise level	40 dB(A) at 10 m
Connecting parts	4“
Weight (empty)	Ca. 790 kg
Electric motor	2,2 kW – 1x230V
	3 kW – 3x400V
Dimensions L x W x H (ca)	1775 x 746 x 1401 mm

ZD 300
After the successful production of the GEHO ZD 600/900 pumps, Clasal launches the innovated the GEHO ZD 300 piston pump. Due to some refreshing changes the ZD 300 pump is even more user friendly.

The ZD 300 has as an advantage, compared to its big brothers, that the pump is very compact and weighs only 360 kg. The high efficiency of the ZD 300 provides enormous capacity. Clasal produces the highest quality, resulting in the longest life.

Advantages of a ZD piston pump

- Constant water and air flow, independent of suction and discharge head
- Self-priming with a suction lift (vacuum) of 9.6 mwc 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
- Robust design for ease of transportation and handling
- Rapid and economical maintenance and low spare parts usage
- economical and longer carefree service life reducing overall project costs
- Unprecedented high availability allowing continuous and unattended operation
- accessibility for ease of inspection and maintenance which require no special skills
- Resistant to brackish water
- Permit universal application. Depending on soil conditions, up to 100 wellpoints and up to 300 metres of header pipe can be connected to a single pump
- Can run dry without causing damage to the pump

Clasal controls the complete line of production

- Full control over the entire production line
- More than 100 years of experience as manufacturer of piston pumps
- Every pump is extensively tested
- Use of wear-resistant and durable materials
- Own foundry which is ISO 9001 certificated

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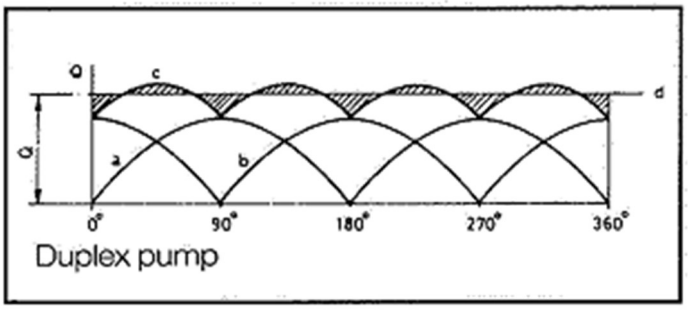
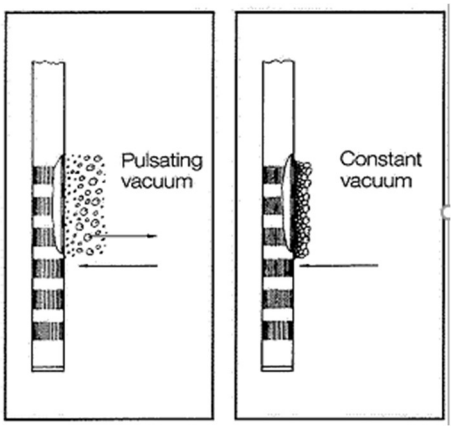
STANDARD TECHNICAL SPECIFICATIONS FOR THE ZD 300

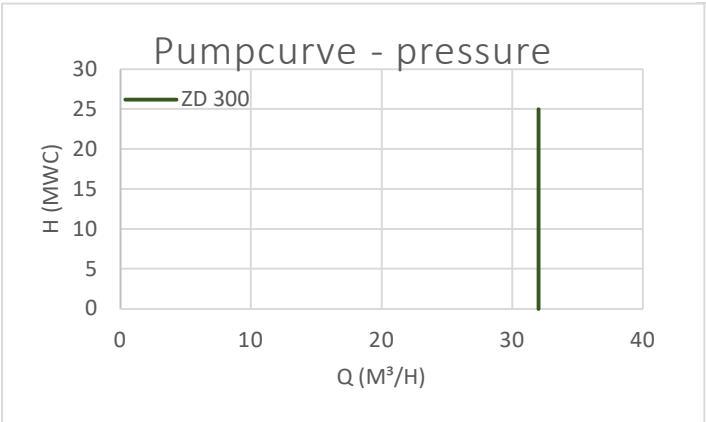
Gearbox	Tough, compact construction with integral single helical precision gears
Lubrication	Self-contained oil splash lubrication
Piston discs	Wear resistant high molecular polyethylene
Cylinders	Stainless steel, easy replaceable
Piston rod	abrasion and corrosion resistant hard surface piston rods
Valve seats	Bronze, saltwater resistant
Valve system	Rubber discs with stainless steel guides
Gearbox, pump body	Alloyed cast iron
Inspection covers	Covers at the side of the pump body for cleaning
Cross head	Attached to the connecting rod with sleeve bearings
Crankshaft	Antifriction type drive shaft and crankshaft bearings

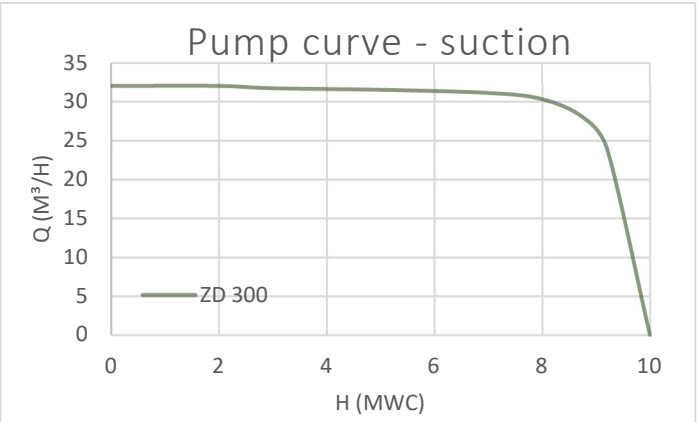
Operational characteristics

Water, air or water and air mixtures are primed and discharged 4 times per crankshaft revolution. Two crankshaft driven pistons are arranged in a V at 90°, so that the four piston strokes for each revolution follow in regular succession. 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.









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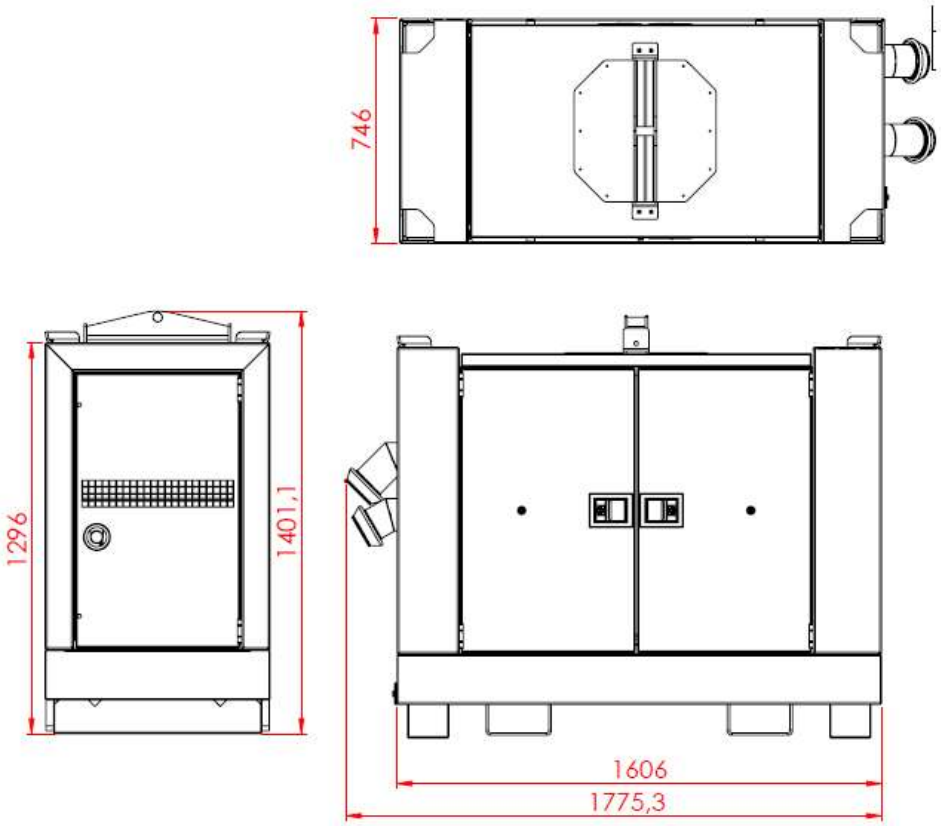
Electric motor

Power	2,2 kW – 1x230 V
	3 kW – 3x400 V
Rounds per minute	1450 rpm
Max.rounds per minute	1500 rpm
Control unit	Motor protector with switch
Cooling system	Air cooled

Base frame

Dimensions L x W x H (ca)	1775 x 746 x 1401 mm
Base frame	Hot dip galvanised
Lifting point	Single lifing point
Forklift pockets	2 forklift pockets
Stackable	Base frame is stackable
Connections	4 inch



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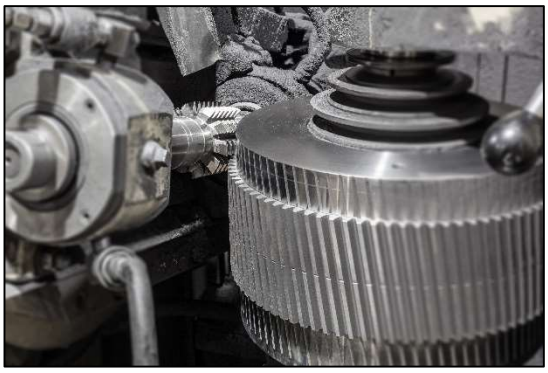
Bronze valve seats and optimal hydraulics ensure the highest efficiency and the best vacuum.

Because we have all the technology in-house, we can always guarantee the same top quality.

All parts are finished at Clasal using high-tech machines.



Gear wheels are finished in our own workshop.

Clasal can use its own foundry.

Clasal only works with SKF bearings.