

# Horizontal pumps VASA

Pumps for harsh environments

## Design

The shaft and bearings are a single node that is easily replaced and is adjustable. The adjustable bearing Assembly and a suction pipe, allows to keep an appropriate optimum gap with two sides. The standard equipment pump includes a pump oil seal which can be easily replaced on expeller or mechanical seals.

## Components

Pump model VASA is equipped with components, lined with natural rubber or high chrome alloy, with a hardness of at least 550 Brinell. You can use other materials: chloroprene, corrosion resistant steel, EPDM rubber or polyurethane. The above options are used in conjunction with various types of shaft seals and allow the selection of the pump, as for abrasive medium, and corrosion resistance.

All components are interchangeable, i.e., any possible combination of materials.

Also, MBE has to offer - closed, semi-open and vortexes (vortex) impeller for all pumps sizes VASA 213-80 and more.

## Installation

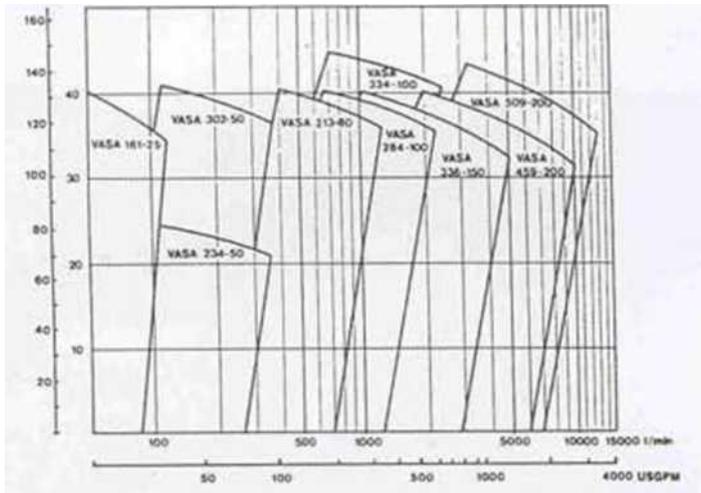
Pump with overhead motor, allows setting compactly pumping unit using the minimum space and eliminates the need for special foundations for the engine.

## Operation

Pumps are designed for pumping abrasive slurries and are mainly used in mineral processing industry for transporting solids and slurries. The use of different lining materials allows pumping of highly abrasive slurries in hydrometallurgical and chemical industries. Pumps are also widely used in the pulp and paper industry where they are used for pumping of clay, lime, caustic slurry, abrasive liquids, pulp, wood chips, etc. also pumps are used in various processes of sugar production, where the slurry is very aggressive as is from corrosion, reconfigure and abrasion point of view.



## Selection of the pump size



## The choice of motor

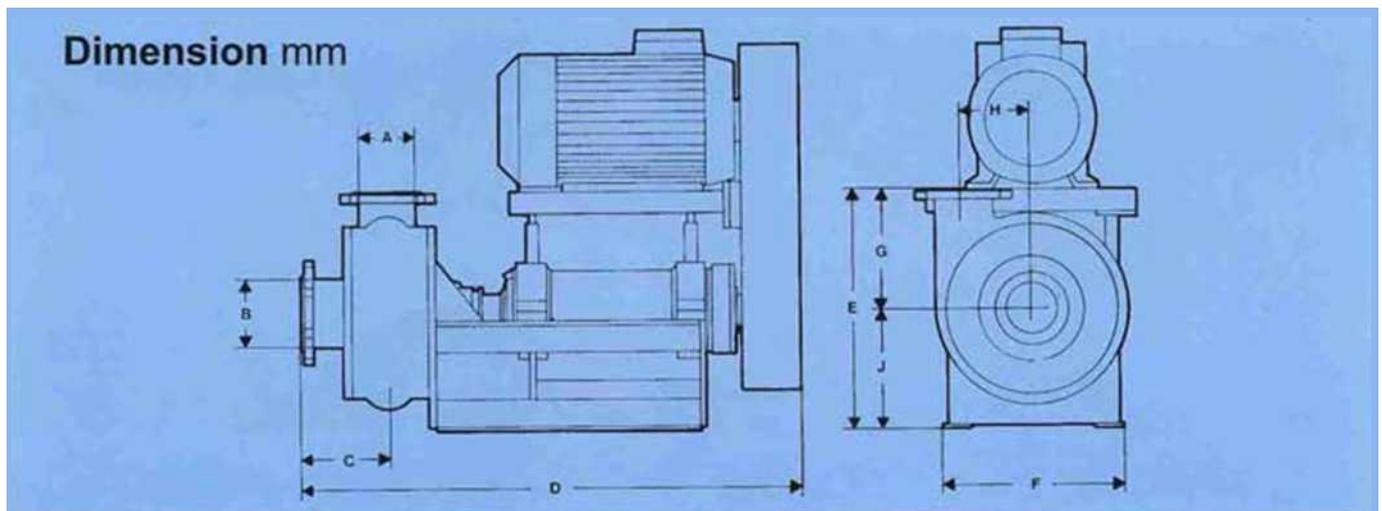
The choice of motor and its protection depends on the performance of the pump. The necessary data to determine the pump size and motor power:

- Productivity (m<sup>3</sup>/h)
- Total dynamic head (m)
- Average density (kg/ m<sup>3</sup>)

## Marking of the pump

The following diagram illustrates the interpretation of digital parts pumps

# 28 4 - 100



Dimensions are approximate and can be change without prior notice

Pump size	Dis charge	In let								Max. motor IEC Standard	Approx. Rubber lined	weight kg Ni-hard
	A	B	C	D	E	F	G	H	J			
VASA 161-25	25	32	55	600	333	285	173	100	160	7.5kW	60	65
VASA 234-50	50	65	125	780	540	528	230	155	310	11 kW	160	175
VASA 302-50	50	65	125	760	540	528	230	180	310	11 kW	170	215
VASA 213-80	80	100	178	1090	510	430	250	141	260	30kW	250	280
VASA 284-100	100	125	178	1090	530	430	270	173	260	30kW	280	330
VASA 334-100	100	125	178	1090	530	430	270	173	260	30kW	-	330
VASA 336-150	150	165	225	1240	635	490	305	243	330	45kW	400	490
VASA 459-200	200	250	277	1570	830	650	405	309	425	90kW	-	970
VASA 509-200	200	250	277	1570	830	650	405	309	425	90kW	-	1000

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