



Model: VS, VZ, VY Series





-Features-

- Many varieties of options to meet all customer requirements.
- Smaller installation space than that of horizontal pumps.
- Immersed impeller dispenses with the need for priming and achieves an easy operation.



-General Specifications-

Service	Water intake/ transfer/circulation	
Application	Sea water desalination, CWP for power plant, Irrigation ,Drainage etc.	
Liquid	Clear water, River water, Sea water, etc.	
	Temperature : $0\sim60^{\circ}\text{C}(32\sim140^{\circ}\text{ F})$	

-Material-

	Clear Water	River Water	Sewage	Sea water
Casing	Cast Iron / Rolled Steel	Cast Iron / Rolled Steel	Cast Iron / Rolled Steel	Low Alloy C.I. 316L S.S. DSS/SDSS
Impeller	Stainless Steel	Stainless Steel	Stainless Steel	316L S.S. DSS/SDSS
Shaft	Carbon Steel/ Stainless Steel	Carbon Steel/ Stainless Steel	12%Cr S.S.	316L S.S. DSS/SDSS
Shaft sleeve	Stainless Steel	Stainless Steel	Stainless Steel	316L S.S. DSS/SDSS
Shaft-enclosing tube (If applied)	Carbon Steel/ Stainless Steel	Carbon Steel/ Stainless Steel	Stainless Steel	316L S.S. DSS/SDSS
Pump base Driver pedestal	Rolled Steel			

Selection of material requires careful study of the properties of the liquid handled and of the operating conditions, etc. For specific details, please consult our factory.

-Construction-

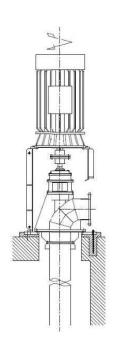
	Standard	Other
Installation type	One-floor-discharge type	Two-floor type, underground-discharge type, pull-out type (model VYN/VZN/VSN)
Direction of rotation	CW(viewed from driver)	CCW(viewed from driver)
Discharge flange	JIS 10K F.F.	Any standard
Thrust bearing	Oil-bath anti-friction bearing	Tilting pad
	Located in pump (Thrust force supported by pump)	Located in motor(Thrust force supported by motor)
Submerged bearing	Rubber bearing, Thordon bearing	Rubber bearing with enclose tube, Ceramic bearing, etc.
Shaft seal	Gland packing	Mechanical seal
Accessories	Pump base, coupling, drain piping, anchor bolts	Rubber bearing lubrication system, suction strainer, , auto air vent valve, compound gauge, tools, etc.

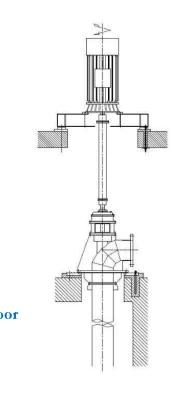
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-Installation Type-

Depends on your plan of pump operating conditions, Ebara can propose the best installation type e.g. one-floor type or multi-floor type.





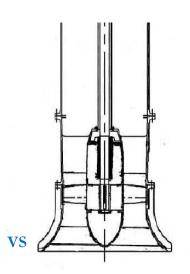
One-floor

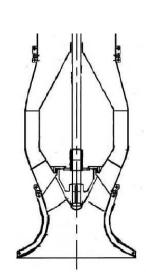
type

Two-floor type

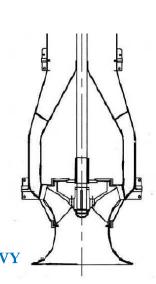
-Typical Designs of Impeller-

There are three different design types of impellers. 100 years experiences and know-how of hydraulic technology enables us to offer suitable hydraulics for you.





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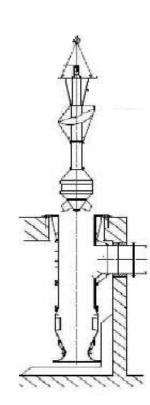


-Pump Structure-

While the non-pull out type is simple design and realizes lower initial cost, the pull-out design whose entire rotor can be withdrawn minimizes time and cost for inspection and maintenance.



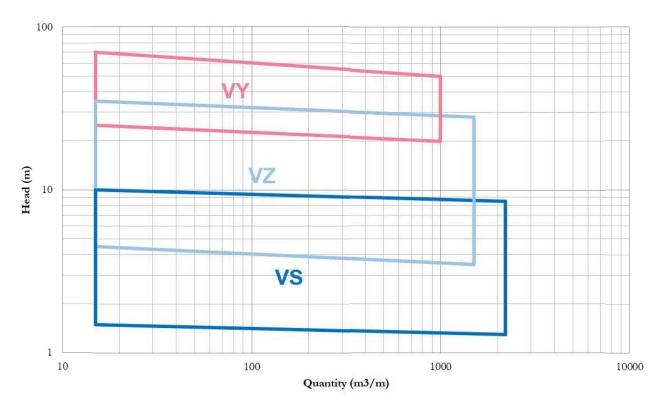
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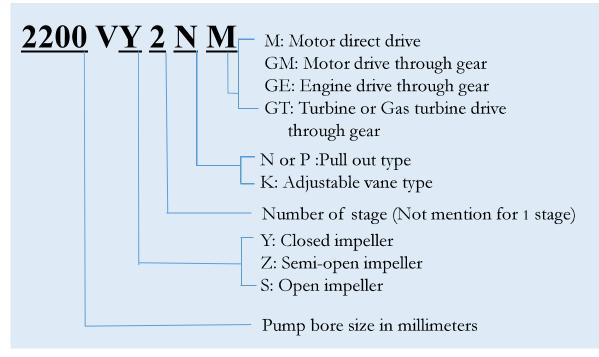
Non pull out

Pull out

-Pump Selection Chart-



-Pump Model Name-



*Model VX is Ebara's model code.

-Test Facility-

How Ebara Guarantees Reliability

Ebara has one of the largest test facilities in the world. Actual pump test can be carried out with 5,000 m.³ of water tank capacity and more than 18,000kW. of driver power.

Ebara also possesses a wide range of pump model test facilities for confirming pump performance and experimentally validating new products through performance/internal flow measurement and analysis. And Ebara can provide suction sump model test for proving a design or developing suction sump design.



Test Pit



Suction Sump Model Test



Model Pump with Transparent Casing

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