EBARA

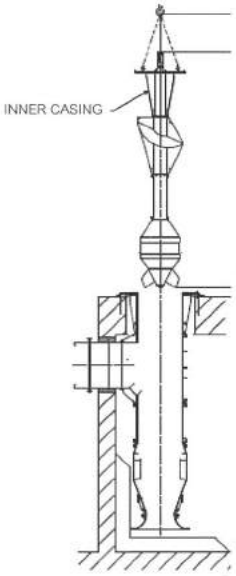
PO1204ET

VERTICAL SHAFT PULL-OUT PUMPS

Model **VX** Series

FEATURES

- Large variety of options to meet all customer requirements.
- Over 100 - meter - head per single stage.
- Welded guide casing is also available.
- Dry bearing not requiring external flushing are also available.
- Guaranteed high performance, quality and prompt delivery.
- And the following advantages, typical of vertical mixed-flow/axial-flow pumps :
  - Smaller installation space than that of horizontal pumps.
  - Submerged impeller dispenses with the need for priming and allows pumping up of water from deep sources.



Outer parts

GENERAL SPECIFICATIONS

Service	Water intake/transfer for general industrial use; fire-fighting; sea water desalination; water intake / transfer for city water and sewerage works; CWP for power plant; irrigation and drainage; river water drainage; etc.
Liquid	Fresh water; river water; sea water; brine; etc. Temperature : 0~60° C (32~140°F)
Application range	Capacity : 13 m^3 /min ~ (3400USGPM) Total head : 2.5 m (7.5 ft) ~ Disch. Bore : 350 mm (14 in) ~

Inner parts

CONSTRUCTIONS

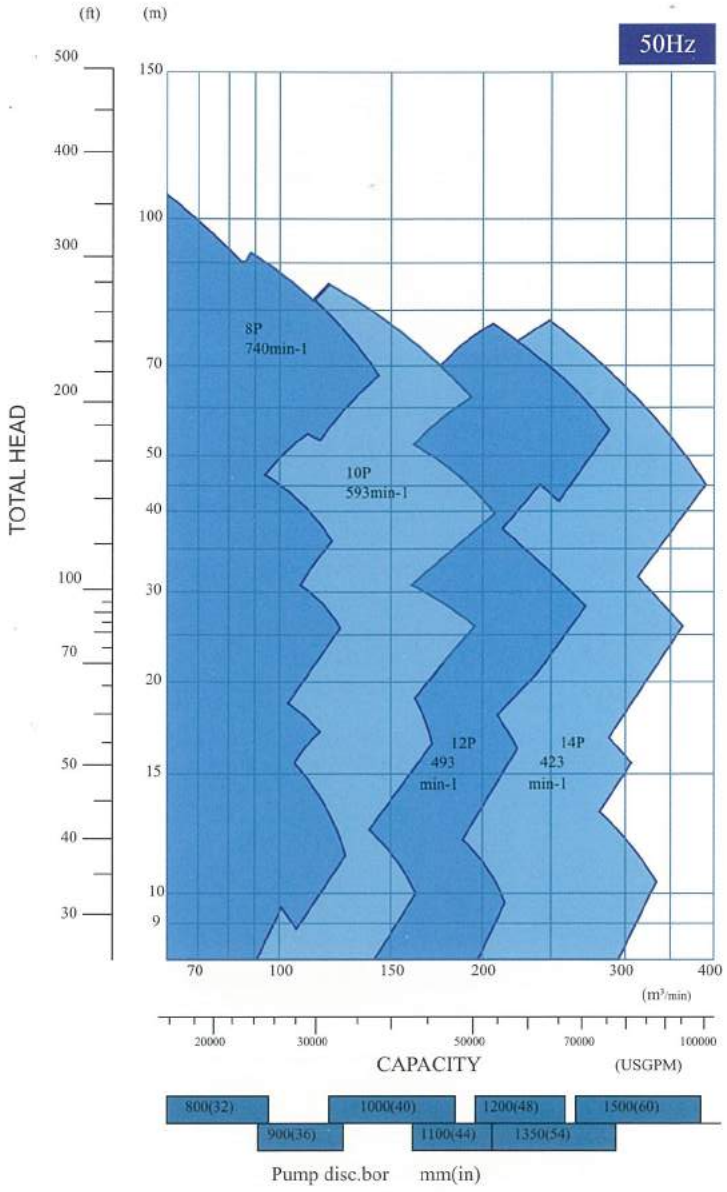
	Standard	Option
Pump (Installation) type	One-floor surface discharge type	Two-floor type; underground discharge type.
Direction of rotation	CW (viewed from driver)	-
Disch, Flange	JIS 10K F.F.	Any standard
Thrust bearing	Oil-bath anti-friction bearing	-
	Located in motor for large horse power	Located in pump
Submerged bearing	Rubber bearing	Dry bearing not requiring external flushing at startup or shutdown.
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; touch-up paint; etc.

MATERIALS (Typical material combinations)

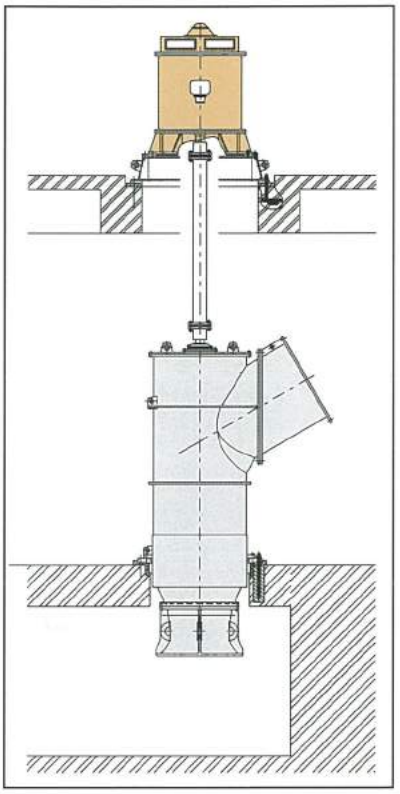
	Fresh water	River water	Sewage	Sea water
Casing	Cast Iron/ Rolled Steel	Cast Iron/ Rolled Steel	Cast Iron/ Rolled Steel	Low Alloy C.I. Ni-resist D2 Stainless Steel
Impeller	Bronze	Bronze/ Stainless Steel	Bronze / Stainless Steel	Stainless Steel
Shaft	Carbon Steel	Carbon Steel	Stainless Steel	Stainless Steel
Shaft sleeve	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Shaft-enclosing tube	Carbon Steel	Carbon Steel	Stainless Steel	Stainless Steel
Pump base	Cast Iron			
Driver pedestal	Rolled Steel			

(Note) : Other specifications can be available, please consult our factory.

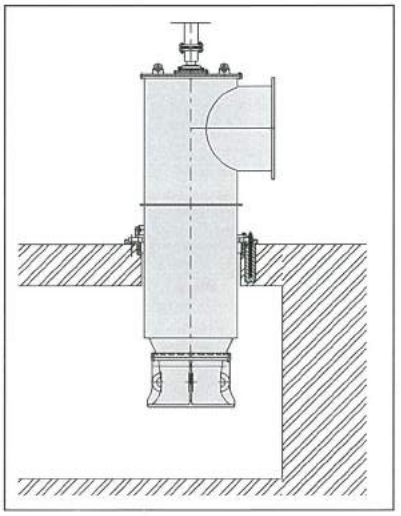
SELECTION CHART



(Note) :
- For detail selection, please contact our factory.
- Pump rating not in the chart are also available.
- Selected bore/Speed may differ depending on actual service conditions.

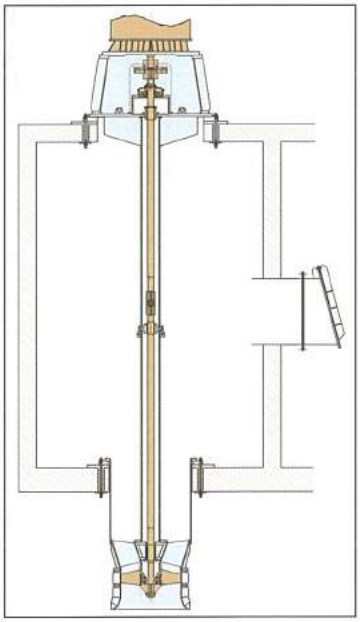


Sample for low head pump installation (Two-floor)

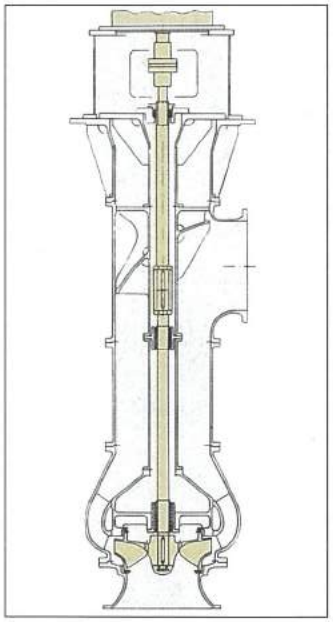


Sample for low head pump installation (One-floor)

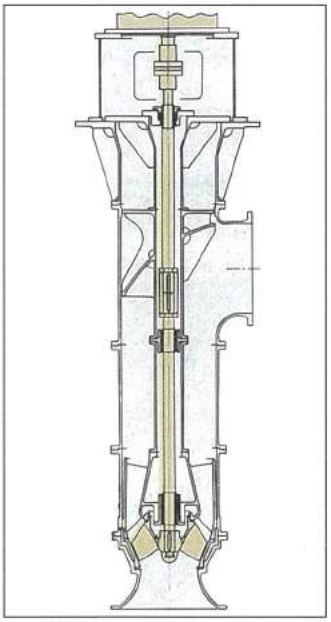
STRUCTURE OF PUMP



Model VSP

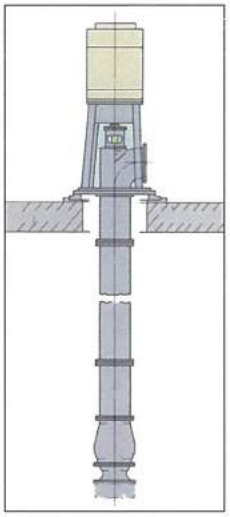


Model VYN/VZN
(Medium-High head)

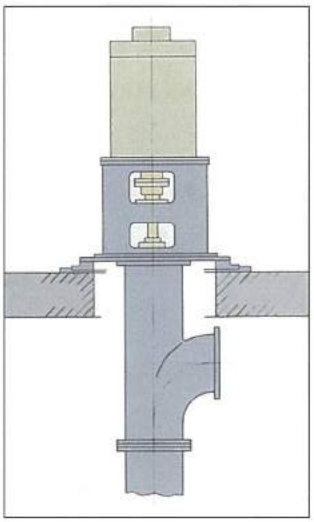


Model VZN/VSN
(Low head)

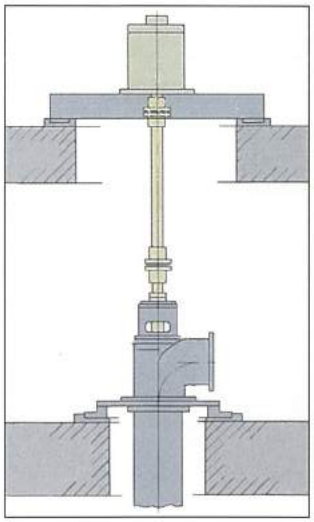
Type of Installations



Basic

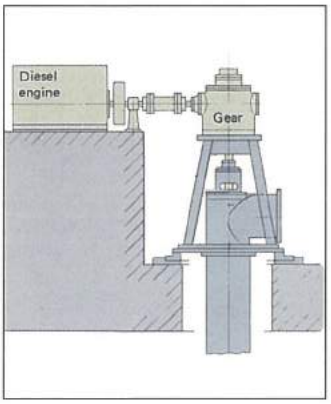


Underground discharge

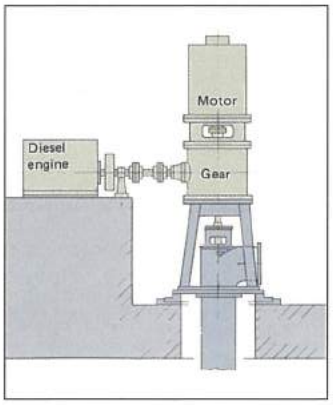


Two - floor installation

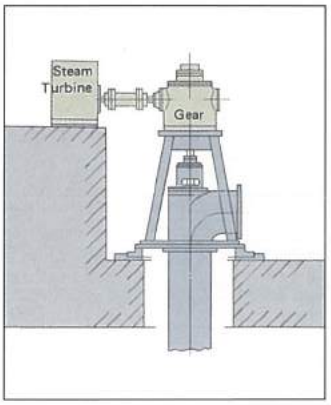
Alternative Drivers



Diesel engine drive

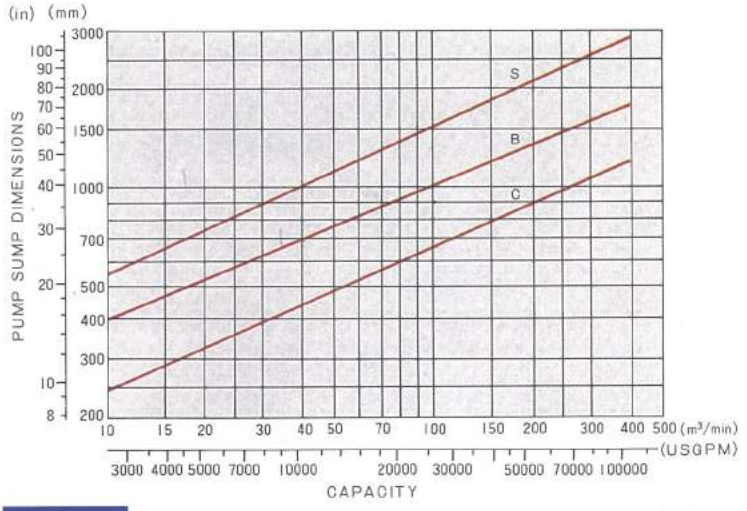


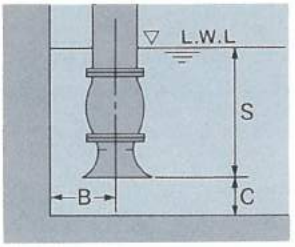
Motor & diesel engine drive



Steam turbine drive

PUMP SUMP DIMENSIONS





- Sump dimensions may differ depending on actual service conditions. For specific details, please consult our factory.

1000 V S P M
1200 V Z N G M

- DRIVER TRANSMISSION ("M" , Motor, "E" , Engine , "T" , Turbine , "G" Gear , "R" , Belt)
- Pull - Out Type
- Impeller model
- Vertical shaft pump
- Pump discharge bore (mm.)

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