



VERTICAL MIXED-FLOW PUMP WITH BARREL

Model **VYB**

**For Liquid, Corrosive or Non-Corrosive,
Where Net Positive Suction Head is Limited
or Suction Conditions are Critical.**

SERVICE

Brine Recirculation Pump/
Blow Down Pump/
Distillate Pump for
Seawater Desalination Plant,
Condensate Pump for
Power Plant,
Hot Well Pump for
Geothermal Power Plant,
Booster Pump for Oil Pipeline.

CAPACITY

to 400m³/min

TOTAL HEAD

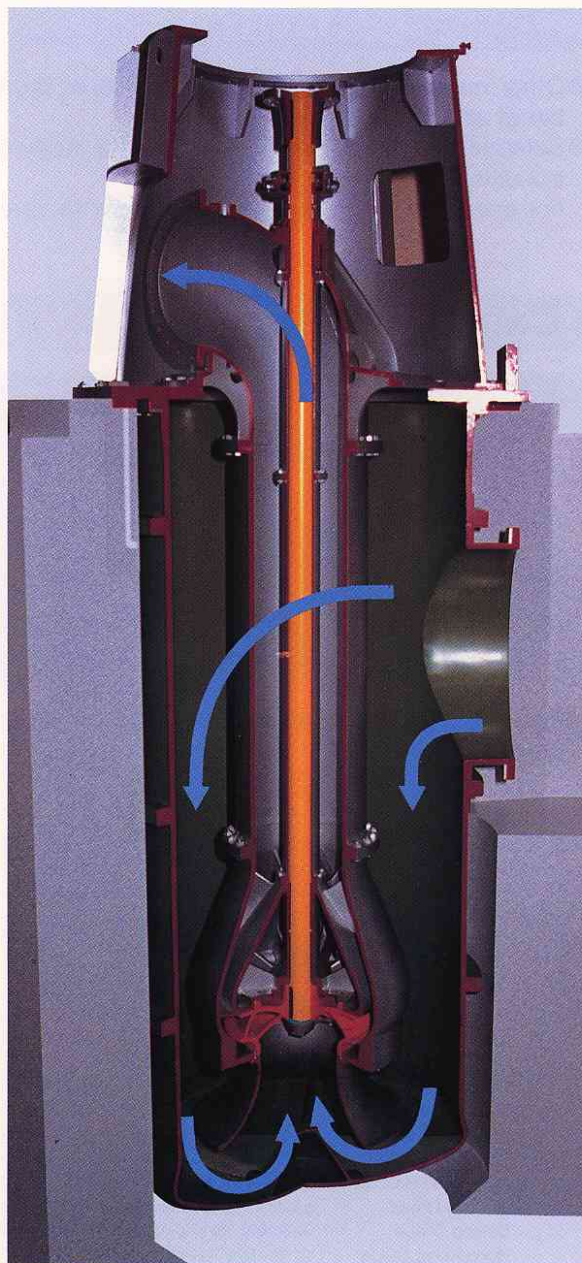
to 350m

Fluids at or near their boiling point, or fluids coming through long suction pipeline, do not provide sufficient suction head to apply horizontal centrifugal pump.

To lower a horizontal centrifugal pump requires expensive excavation and pit construction, and is exposed to flooding risk.

Our model VYB, which we have delivered more than 300 units, however, can have its impeller at any desired depth to avoid pump operation with cavitation, and allows pump driver to remain above ground.

Furthermore, suction and discharge nozzle can be oriented in any direction, this flexibility offers the system engineer greater freedom in planning or modernizing a pumping system.



Typical Material Combinations

	Condensate Pump for Power Plant	Booster Pump for Oil Pipeline	Brine Recirc. Pump for Desalination Plant
Casing	Cast Iron/ Ductile Cast Iron/ Carbon Steel	Cast Iron/ Carbon Steel	Ductile Ni-Resist D2
Impeller	304 S.S.	304 S.S.	316 S.S.
Shaft	Carbon Steel/ Cr. Mo. Steel	Carbon Steel/ Cr. Mo. Steel	316 S.S.
Shaft Sleeve	304 S.S.	403 S.S.	316 S.S.
Shaft Bearing	Graphite Dispersed Metal/ Cutless Rubber	Bronze/ Ni-Resist	Cutless Rubber
Shaft Enclosing Tube	Carbon Steel	N.A.	316L S.S.
Barrel	Carbon Steel	Carbon Steel	316L S.S.

- Other materials such as Nickel aluminum bronze, Duplex S.S, Monel, Alloy20, etc. and F.R.P barrel are also available.
 - Selection of materials requires careful study of the properties of liquid handled, operating conditions, etc.
- For specific details, please consult our factory.

Construction

Discharge Bowl	Single Stage/Multi-Stage
Flange	JIS 10K R.F/Any Standard
Suct. Nozzle Elevation	Underground/Surface
Shaft Seal	Gland Packing/Mechanical Seal
Thrust Bearing	Oil Bath Anti-Friction Bearing/Oil Bath Tilting Pad/ Mounted in Motor

- Pull-out type, which allows to remove of rotor without disturbing discharge nozzle flange, is also available.