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VERTICAL AXIAL FLOW PUMP

The Axial flow suspended shaft vertical pump is a single stage propeller type design. This family of pumps is specifically designed for low head movement of water for a multitude of municipal, agricultural and industrial services.

APPLICATIONS:-

- Flood Control,
- Water Treatment,
- Shipping,
- Ground Water Development and Irrigation,
- Cooling Water (power),
- Dewatering and Water Supply (mining),
- Agriculture

INDUSTRIES:-

- Mining,
- Water Resources,
- Power Generation,
- General Industries



**Vertical Axial
Flow Pumps**

- ✚ Three- or Four-Vane Axial Flow Propeller is hydraulically balanced via pressure equalizing balance holes and a top propeller hub wear ring to reduced axial down thrust.
- ✚ Outer Flanged Columns are bolted together with through bolts for ease in assembly. Alignment is maintained via centering fits on all parts
- ✚ Flared Suction Bell provides a smooth waterway entrance to the impeller and has integral splitters to reduce inlet swirl and entrance losses
- ✚ Stator Case With Integral Diffuser
Vaness may be either a single-piece casting or a fabrication.
- ✚ Discharge Elbow may be located above or below ground and at any outlet orientation.
- ✚ Seal Chamber accepts packing or mechanical seal to suit service requirements.

OPENING PARAMETERS:-

- Flows to 181700 m³/h (800 000 gpm)
- Heads to 11 m (35 ft)
- Speeds to 1770 rpm
- Sizes 200 mm (8 in) to 3.1 m (123 in)
- Settings to 8 m (25 ft)
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The VAF is a vertical high efficiency, axial flow impeller pump together. we have a complete range of this type of pumps which are suited for applications that require large quantities of flow with low head.

CHARACTERISTICS

- Multi-stage vertical centrifugal pump, diffuser type bowl.
- Axial flow impeller, high efficiency.
- Can handle solids up to 14" diameter (365 mm).
- Counter clockwise rotation viewed from shaft coupling.

DESIGN FEATURES:-

- API 610 latest edition construction available (VS3 type on special request only)
- Above or below base discharge.
- Discharge elbows designed to reduce friction losses, diffusers designed to minimize turbulence and increase efficiency.
- Product, oil or fresh water lubrication.
- Rotor 'Pull-Out' design available.

STANDARD CONSTRUCTION MATERIALS

- **Bowls:** Cast iron with bronze impeller.
- **Column:** Carbon steel with AISI-1045 shaft.
- **Discharge head:** Fabricated steel.

OPTIONAL ACCESSORIES

- Basket type strainer.
- Extended suction bell (umbrella) to minimize vortices.