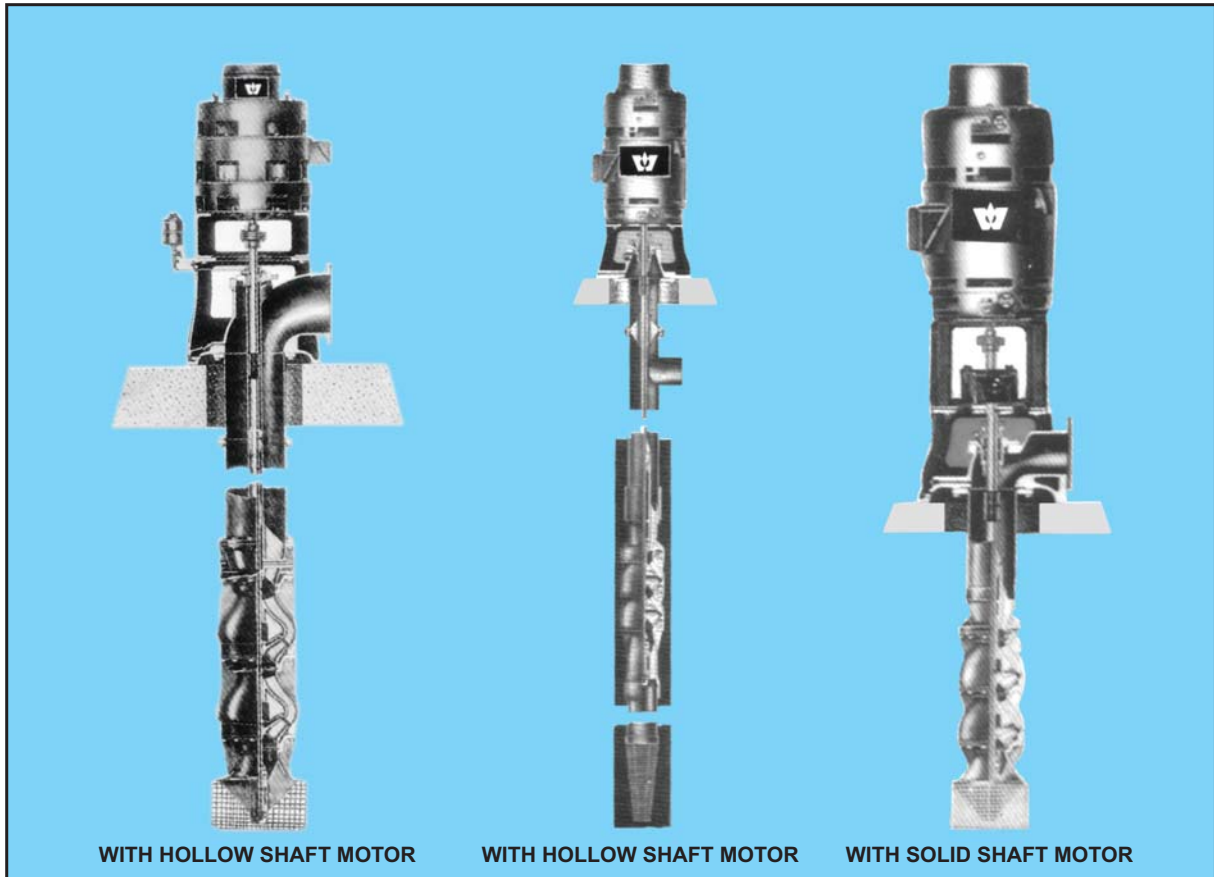


WPIL

Vertical Turbine Pumps



A QUALITY PRODUCT FROM ISO : 9001 CERTIFIED COMPANY

APPLICATION			
AGRICULTURE	PUBLIC UTILITIES	INDUSTRY	OTHERS
<ul style="list-style-type: none"> • Tubewell Irrigation • Openwell Irrigation • River/Canal Irrigation • Sprinkler Irrigation 	<ul style="list-style-type: none"> • Urban Water Supply • Rural Water Supply • Domestic Water Supply in high rise building 	<ul style="list-style-type: none"> • General Service Water • Process & Cooling Water Services • Raw & Treated Water Services • Fire Fighting Services 	<ul style="list-style-type: none"> • Mine Dewatering • On line Boosting • Water Fountain • Oil/Petroleum Handling Services

GENERAL RANGE

- Bowl Sizes from 100 mm to 2500 mm.
- Capacity from 6 M³/hr. to 40000 M³/hr.
- Head upto 300 MWC.
- Setting Upto 300 Mt.

CONSTRUCTIONS

- Self-Water Lubrication, Oil Lubrication, External Water Lubrication
- Motor Drive, Belt Drive, Gear Drive
- Combination Motor-Gear Drive
- Above Ground/ Under Ground Discharge
- Standard/ Special Material of Construction



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TYPICAL SPECIFICATION

PUMP BOWLS

Pump Bowls are made of close grained cast iron free of any detrimental foundry or other defects. Bowls may be vitreous enamelled for their longer life, if desired.

IMPELLERS

The impellers shall be of Bronze enclosed or semi-open type statically and dynamically balanced. They shall be securely fastened to the pump shaft with tapered lock collets. Enclosed type impellers shall be fitted with shrink fitted seal rings. Position of the impellers with respect to pump bowls shall be adjusted vertically by means of an adjusting nut.

PUMP SHAFT

The pump impeller shaft is made of precision ground stainless steel supported by bearings above and below each impeller. The suction case bearing is extra long, grease packed and protected by sand collar.

COLUMN PIPE

Column Pipes are of Mild Steel as per IS 1978/IS 2062 nominal lengths not exceeding 3 mt. each. Top and bottom column pipes are of 1.5 mt. length for ease of installation. Pipe size is so selected that friction loss will not exceed 5 ft. per 100 ft. of column assembly.

Pumps operating at speed more than 1800 RPM shall have column assembly in 1.5 mt Sections.

DISCHARGE HEAD

The pump shall be provided with a surface (or underground) discharge head with its top flange to suit the driver base

THRUST BEARING HOUSING

Thrust Bearing may be either in pump or in drive motor, depending on service/client requirement. Thrust bearing in pump may be anti-friction or tilting pad type – air cooled or water cooled.

LINE SHAFT BEARING ASSEMBLY

In a Water-Lubricated Pump Bearing Retainer is equipped with a “snap-in” rubber bearing, spiral grooved for better shaft cleaning action. Line shafts are fitted with a stainless-steel shaft sleeve at bearing locations.

For Oil Lubricated construction, a heavy steel tube as per IS : 1978 protects the shaft from corrosion and foreign matters. Threaded Bronze Bearings are provided at intervals of five feet. Reinforced rubber spiders centre the shaft and tube assembly in the column pipe. Oil Lubricated Pumps have speed less than 1800 RPM.

SCOPE OF SUPPLY

STANDARD EQUIPMENT	DRIVER	OPTIONAL EQUIPMENT	ACCESSORIES
<ul style="list-style-type: none"> ● Discharge Head Assembly ● Column Assembly ● Bowl Assembly ● Strainer ● Pre-lub. Tank Assembly (Water-lub Pump of high setting) ● Oiler Assembly (Oil-lub Pump) 	<ul style="list-style-type: none"> ● Motor ● Diesel Engine with <ul style="list-style-type: none"> — Belt head attachment — Right Angle Gear Drive ● Turbine 	<ul style="list-style-type: none"> ● Depth Gauge with Airline Pipe and fittings ● Sole Plate ● Companion Flange ● Foundation Bolts ● Thrust Bearing Housing ● Non Reverse Ratchet 	<ul style="list-style-type: none"> ● Sluice Valve ● Non-Return Valve ● Pressure Gauge with fittings ● Motor Control Gear

DATA REQUIRED FOR SELECTION OF A VERTICAL TURBINE PUMP

- | | |
|---|---|
| <ul style="list-style-type: none"> ● Capacity ● Total head ● Speed of operation (full load driver rpm). ● Setting for well application (column length or pumping water table) ● Inside diameter and length of upper well casing. ● Overall depth for sump application (from bottom of mounting base to bottom of sump) with maximum and minimum water levels. | <ul style="list-style-type: none"> ● Surface or underground discharge. ● Water analysis, if other than clear water. ● Driver data <ul style="list-style-type: none"> Type of drive A.C. power supply details. Diesel engine / Gear drive details. Horizontal motor details. |
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WPIL Limited

(Formerly Worthington Pump India Ltd.)

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GHAZIABAD - 201 003 (UP)

SOUTHERN REGION OFFICE

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23 - A DR. B. N. ROAD
T. NAGAR, CHENNAI - 600 017

MANUFACTURING FACILITIES

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