



KIRLOSKAR BROTHERS LTD.

VERTICAL TURBINE PUMPS TYPE - BHR/BHQ/BHM/BHMa/BHA



Pumps are of single or multistage, consisting of bowl assembly, column assembly and driving unit assembly. Variety of models are available to operate at 50Hz and 60 Hz. A diffuser with vanes cast integrally.

Impellers are of Francis (BHR), Mixed flow (BHQ, BHM, BHK), Semi-axial (BHMa) and Axial (BHA) type; enclosed or semi-open depending upon model. In case of condensate extraction pumps, first stage impeller can have double suction optionally. Designed for smooth inflow of water with minimum losses. The shaft is of high tensile strength steel. Either cast or fabricated, it houses line shaft bearings and directs water from bowl assembly to discharge head/elbow.

Transmission bearings : Cutless bearings are of natural / synthetic rubber / Elastomeric with outer shell of brass or suitable material. Lubrication by self/external clear water. Oil lubrication with bronze bearing is also available upon request. **Thrust bearing** : Michell Tilting Pad Type or Antifriction type for taking hydraulic axial thrust and weight of rotor assembly. Lubrication with oil or grease. Thrust bearing arrangement is available either independently in pump and drive or combined thrust arrangement in drive. To direct flow from column pipe to discharge pipe located above or below ground level with single floor or two-floor arrangement as per requirement.

To prevent reverse rotation, available on request. Rigid construction to ensure vibration-free operation of pumpset. For pump and prime mover flexible or rigid as per requirement.

For line shaft threaded barrel or muff type as per requirement. Clockwise when viewed from driving end. Electric motor with vertical hollow/solid shaft is a standard arrangement.

Diesel engine/steam turbine with a right angle gear unit upon request.

Hydraulic design is being updated with our continuous R & D efforts to meet requirements of high efficiency and low submergence, taking care of other parameters, such as high reliability and optimum system design.

Authorised Distributor Perfect Industrial Services

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