



KIRLOSKAR BROTHERS LTD.

END SUCTION NON CLOG ENCLOSED/SEMI-OPEN IMPELLER SOLID HANDLING PUMP TYPE-SHM



Description

Range :

Delivery size up to 200 mm, Capacity up to 800 m³/hr, Head up to 90 m, Max. permissible solid size up to 105 mm, depending on the model, Consistency up to 5%, QP impellers for more than 5% consistency

Applications : For handling liquids with solids in suspension, sludges or pulpy material in paper Industries, sewage or waste with soft solids in suspension, viscous liquids or liquids carrying fibrous material or powdered material slurries, contaminated process liquids like sugar factory waste, trade liquors, water carrying gravel, etc.

Constructional Features : SHM are horizontal non clog pumps having single stage, single suction with back pull out type design. SHS are vertical nonclog pumps for wet pit applications. The pump unit is suspended by a column pipe which also protects the transmission shaft. These pumps can be offered with a column length up to 6.5 m. SHV are vertical non clog pumps for dry pit application in vertical orientation to be driven by vertical flange mounted motor which is directly coupled. Also, SHVT pumps are vertical non clog pumps for dry pit application in vertical orientation to be driven by vertical flange mounted motor but coupled through transmission shafting. These pumps operate at 50 Hz and 60 Hz.

Casing : End suction with top centreline delivery as well as horizontal side delivery. High efficiency volute providing smooth unobstructed flow. Delivery flange and feet are cast integral with the casing. A large inspection opening is provided on casing with easily removable cover.

Impeller : Single suction type non clog impeller dynamically balanced. Enclosed or semi-open impellers are

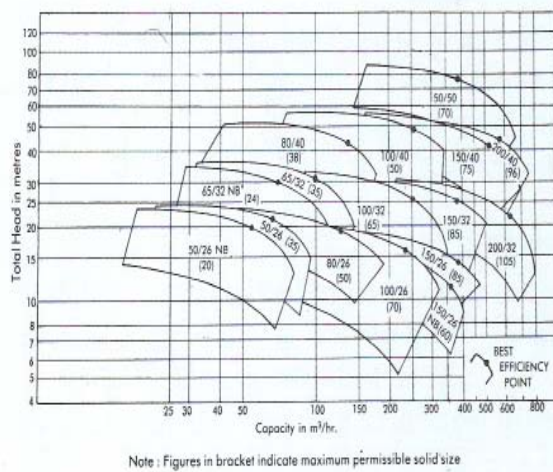
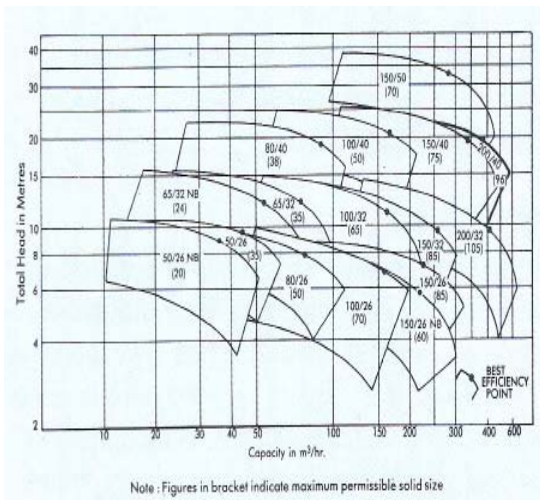
available in code N, P, Q or R. **Shaft :** In SHM pumps, four driving units cover the entire range. Shaft is supported by two bearings. Shaft in stuffing box area is protected by a shaft sleeve. Axial clearance between semi-open impeller and suction wear plate can be adjusted externally without dismantling the pump. The shaft sleeves under bearing housing and bearing spider are shrunk fitted to shaft in SHS pumps. **Stuffing Box :** Standard stuffing box is gland packed with grease sealing. Without cooling up to 90°C and with cooling to 140°C. Mechanical seal option is also available.

Bearings : SHM Pumps Standard : Deep groove ball bearings at DE/NDE. Optional : 1) Deep groove ball bearing at DE and roller bearing at NDE. 2) A pair of angular contact ball bearings (BECB) at DE & one cylindrical roller bearing at NDE. Standard lubrication is grease and optional is oil. SHS Pumps : Intermediate shaft bearing is rubber (For water Lubrication) and bronze bearing (For grease lubrication). Thrust ball bearing in combination with metallic journal bearing at head shaft. Transmission bearings are lubricated with external clear water or grease. Thrust bearings are grease lubricated. **Direction of Rotation :** Clockwise viewed from driving end.

Drive : These pumps are suitable for coupling with electric motor or engine directly or through belt drives. **Flanges :** Standard drilling to DIN 2533 ND 16 Optional drilling to ASA/BS/IS

Family Curve of SHM Pump at 1450 rpm - 50 Hz.

Family Curve of SHM Pump at 980 rpm - 50 Hz.



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