



KIRLOSKAR BROTHERS LTD.

HORIZONTAL SPLICASE SINGLE VOLUTE MOTOR/ENGINE DRIVEN PUMP TYPE UP

Description

Range: Delivery size up to 1100 mm Capacity up to 20,000 m³/hr
Head up to 160 metres

Applications: Suitable for handling water with slight impurities in Industries, Water Works, Storm Water, Irrigation, Sprinkler Irrigation, Fire-Fighting, Air Conditioning, Water Circulation, Waste Water Treatment, Processing, Power, Fertiliser, Refinery, Paper, Sugar and Textile Mills etc.

Constructional Features

These are horizontal axially split casing, single stage double suction or single suction, single volute or double volute type pumps with horizontal shaft. Variety of models are available to operate at 50 Hz and at 60 Hz.

Special Features

- Direct or gear drive, - Bottom suction branch, - Rotating assembly available for inspection or maintenance by removing upper half casing without disturbing suction, delivery piping and motor, - Pump axis horizontal or vertical, - Vertical pump, direct drive or with universal shaft
- Arrangement, - Highest hydraulic and overall efficiency due to latest design and manufacturing techniques, - Very high efficiency in the operating range, - Good suction performance and low NPSH, - Stable characteristics, - Minimum maintenance, - Vibration free performance, - Highest reliability

Casing: Horizontal axially split volute type, suction and discharge nozzles and supporting feet are cast integral

with lower half casing. **Impeller:** Double or single suction type accurately balanced. In the case of double suction impellers, the hydraulic thrust is balanced automatically because of pressure equalization on both sides of the impeller.

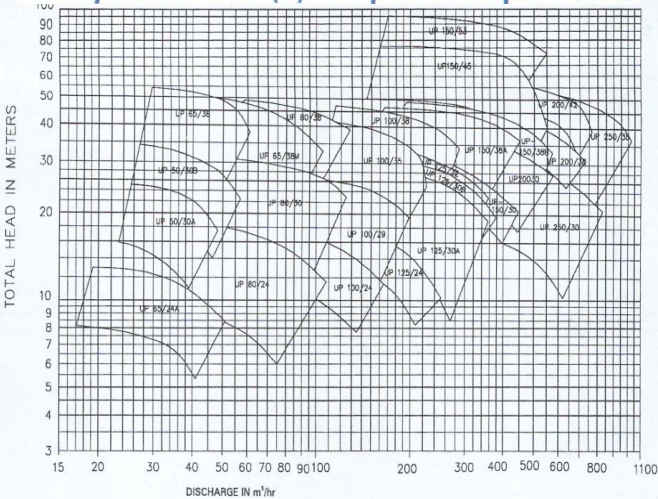
Shaft: The high tensile steel shaft accurately machined and ground is supported by antifriction bearings. The

shaft is protected by shaft sleeves from wear in stuffing box area. **Stuffing Box:** Can be sealed by gland packing or by mechanical seal and is suitable for liquids having temperature upto 90°C. **Bearings:** Deep groove ball/roller bearings are provided. Standard lubrication is grease. **Direction of Rotation:** Standard - Anticlockwise viewed from driving end. Optional - Clockwise viewed from driving end.

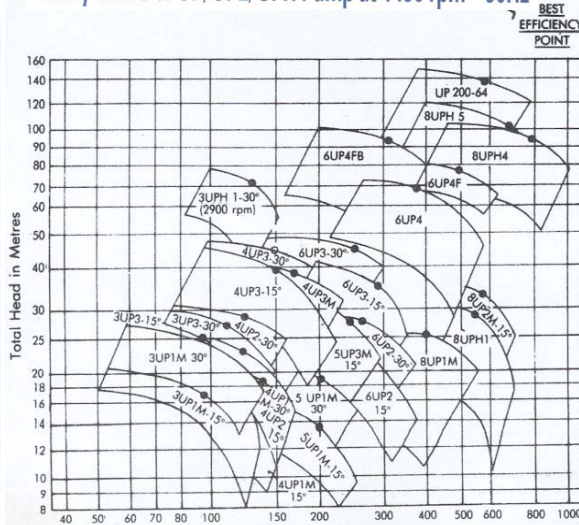
Drive: Suitable for coupling with electric motors, I.C. engines, or steam turbines either directly or through belt drives,

gear boxes etc. **Flanges:** Standard : Drilling to BS-10 Table D/F or BS-4504 Table 16/11 Plain face depending upon model. Optional : DIN/ASA with suitable pressure rating depending upon model

Family Curve of UP (T) Pump at 1450 rpm - 50Hz



Family Curve of UP/UPL/UPH Pump at 1450 rpm - 50Hz



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