

SHAKTI VERTICAL TURBINE (SVT) PUMPS (50 Hz)



Shakti Vertical Turbine (SVT) Pumps

Introduction

Shakti Vertical Turbine (SVT) Pumpset are robust, high efficiency, multi stage centrifugal pump, and design to lift water from deep wells, open sumps, or reservoirs. The design ensures smooth, vibration-free operation. Their working principle involves an impeller submerged in water that lifts fluid through a vertical column to the discharge head above ground. The motor remains easily accessible on the surface, ensuring convenient maintenance and inspection. These pumps are highly efficient, durable, and capable of handling large volumes under high heads.

SVT Pump consists of three main assemblies:

1. **Bowl Assembly:** Houses the impellers and diffuser bowls that create the pumping action.
2. **Column Assembly:** Transmits the water to the surface and encloses the pump shaft supported by line shaft bearings.
3. **Discharge Head Assembly:** Contains the driver and delivers the water to the discharge line.

Features

- High efficiency and consistent performance at varying heads and capacities,
- Suitable for deep well or open sump installations,
- Modular design for easy maintenance and adaptability,
- Available in cast iron materials,
- Can be driven by vertical electric motor,
- Capable of handling large flow rates and high discharge pressures,
- Long service life with corrosion- and abrasion-resistant components.

Applications

- Municipal and rural water supply
- Irrigation and agricultural lift schemes
- Industrial water circulation and cooling systems
- Power plants projects
- Flood control and drainage systems

Material of construction

DESCRIPTION	MAT. GRADE
Impeller	SS CF8M / DUPLEX SS CD4MCu
Bowl	CI FG 260
Suction Case	CI FG 260
Line shaft Sleeves	SS AISI 410
Pump / Impeller Shaft	SS AISI 410
Discharge Head	M.S. Fabricated
Line Shaft	SS AISI 410
Column Pipe	M.S.
Suction Strainer	GI Wire Fabricated
Line Shaft Bearing	Nitrile Rubber
Bearing Retainer	CI FG 260

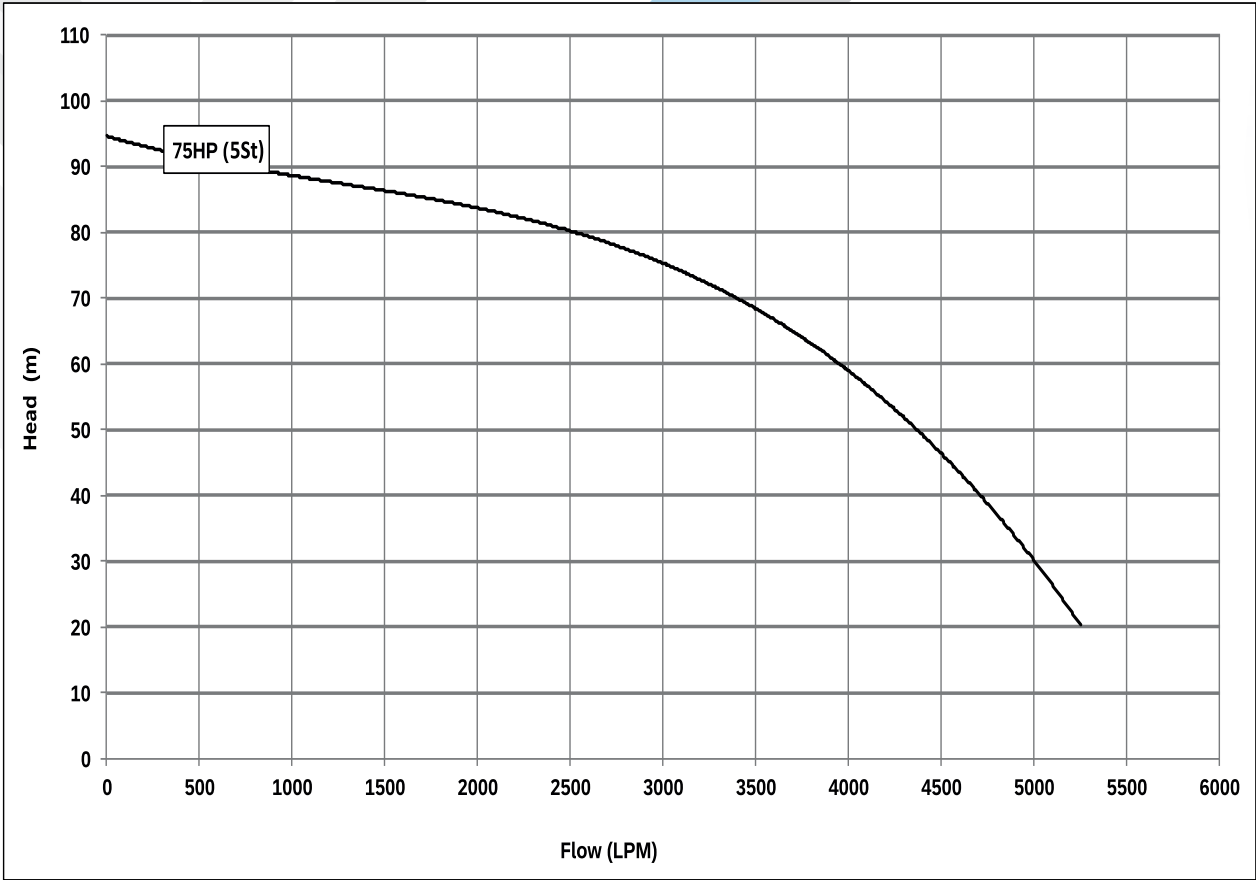
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Performance Details :

Pump Code : 9000034880
MODEL : PUMP 12" SVT 175 (5ST) DN200
Power Rating : 55 KW / 75 HP
Pole : 4 POLE
Frequency : 50Hz
Duty Discharge : 2917 LPM (175 M³/Hr)
Duty Head : 75M
Pump Type : Open Lineshaft VT Pump
Stage : 5 Stage

Motor Code : 9000034883
Frame : 250
Type : VHS, TEFC, IE-3
Power Rating : 55 KW / 75 HP
Pole : 4 POLE
Volts : 415 ± 10%
Phase : 3
Frequency : 50Hz
Type of Protection : IP-55

Performance Curve :



All specifications & information are given in good intent. Errors are possible and product may be subject to change. Picture may differ from actual product depending on local market requirements and regulation.



SHAKTI PUMPS (INDIA) LIMITED

CIN : L29120MP1995PLC009327 | Web: www.shaktipumps.com | E-mail: info@shaktipumps.com, sales@shaktipumps.com

Corporate Office : Plot No. C-04, Silver Spring, Phase-2, Business Park, Indore-452020. (M.P.) INDIA. Tel.: +91 731 3635000

Regd. Office & Factory Add. : Plot No. 401, 402 & 413, Industrial Area, Sector - 3, Pithampur-454774, Dist. Dhar (M.P.) INDIA. Tel.: +91 7292 410500