



صنایع پمپ سازی

نوید سهند

گروه صنایع پمپ سازی ایران

**Navid Sahand**

سازنده انواع پمپ های صنایع آب، نفت، انرژی و سفارشی

Manufacturer of Water, Oil, Energy & Special Pumps



**VTP Series**

Vertical Line-Shaft Turbine Pumps



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## Design

Vertical single or multi-stage line-shaft turbine pumps for wet pit or dry installations with closed, open, semi-open or radial impeller. The column shaft pipes have flanged connections and assembled with line shaft bearings. The line shafts are connected with keyed or threaded couplings. The axial thrust bearing is mounted in the pump headpiece.

## Application

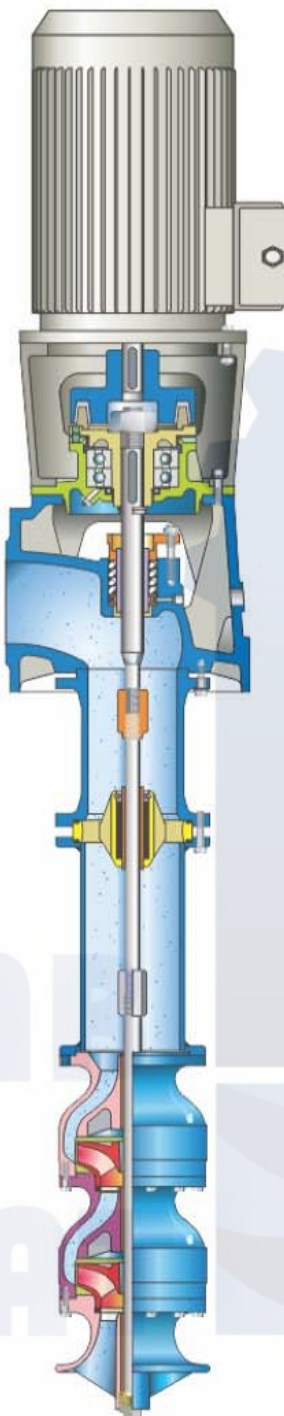
Vertical line-shaft turbine pumps of the series Navid Sahand VTP used for pumping of clean and slightly contaminated liquids, particularly applicable for applications as

- Cooling water
- Water supply
- Irrigation
- Filter Backwash
- Pressure Boosting
- Storm water
- Water lift duties
- Industrial processes
- Hazardous liquids

in addition wherever vertical pumps are deemed most suitable for the application concerned.

### Technical data:

Capacity	max. 7,000 m <sup>3</sup> /h
Head	max. 350 m
Speed	max. 3600 rpm
Casing pressure	PN 40 other on request



## Construction

### Casing pressure

Maximal 40 bar ( other on request )

### Please note:

The relevant technical regulations and safety rules must be observed.

Casing pressure = inlet pressure + delivery head at zero flow

### Flange location

Suction flange vertical, discharge flange horizontal.

### Flanges

Flanges correspond to UNI 2333 / PN 16 / PN 25.

Flanges drilled according to ANSI 150 can be supplied.

### Hydraulic

Different impeller types are available for the hydraulic of the pump. Depending on the application closed, open or semi-open impellers are available.

### Bearing

The bearing of the line shaft is realised with a special sleeve, that is equipped with a rubber-bearing bush and lubricated by the pumped liquid.

The axial thrust is balanced with a grease lubricated double row, angular contact bearing or oil lubricated roller bearing.

### Direction of rotation

Anti-clockwise, when looking at the pump from the drive end.

### Shaft sealing

The shaft is sealed by gland packing or mechanical seal.

## Installations

- Wet pit
- Dry
- Discharge nozzle below ground
- Barrel pump
- In-line barrel pump
- Deep well turbine
- Hydro boost

