

DYNAPRO PUMPS

A LOUIS PUMPS COMPANY

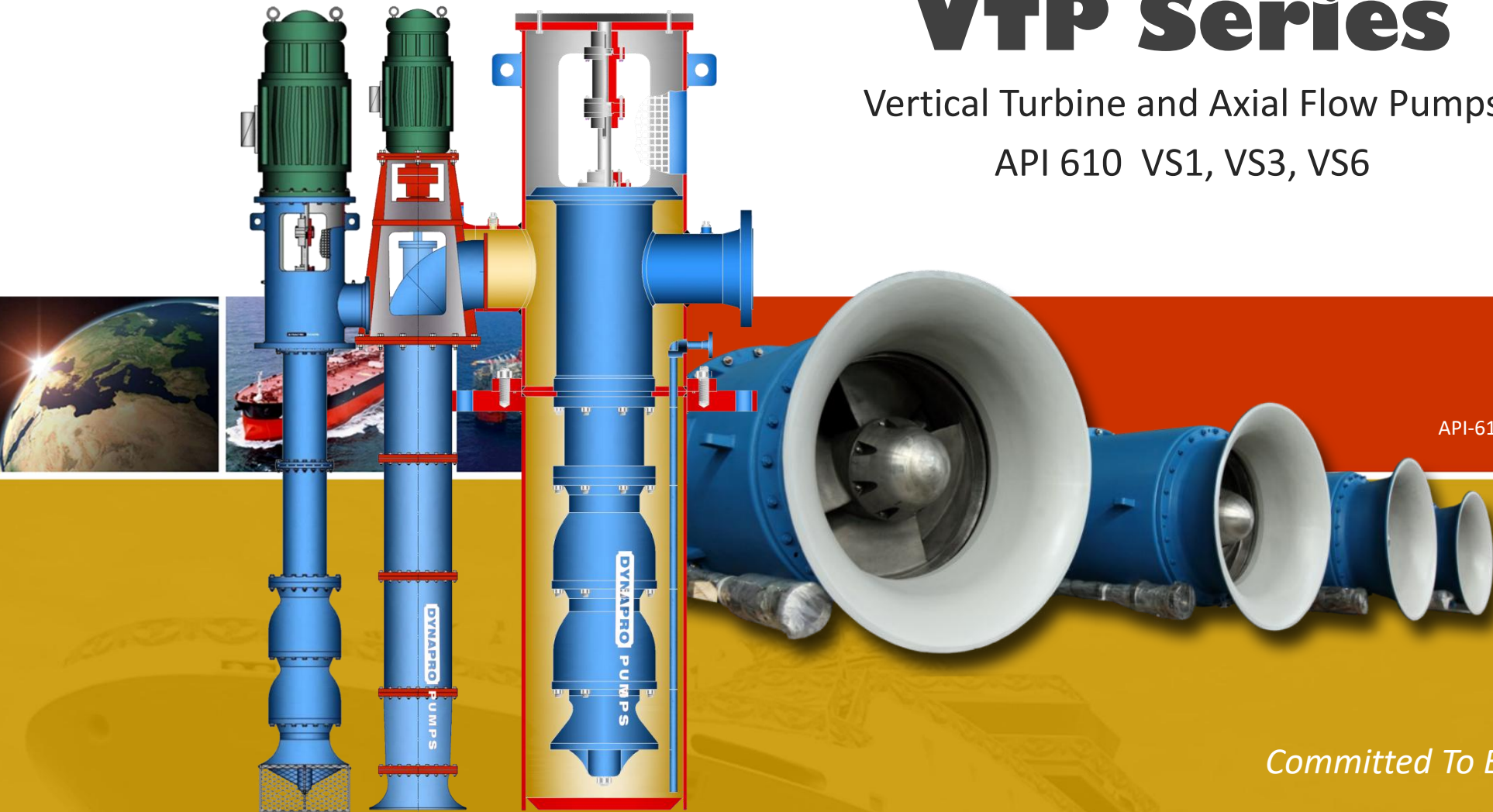
VTP Series

Vertical Turbine and Axial Flow Pumps

API 610 VS1, VS3, VS6

API-610, 12TH EDITION

Committed To Excellence

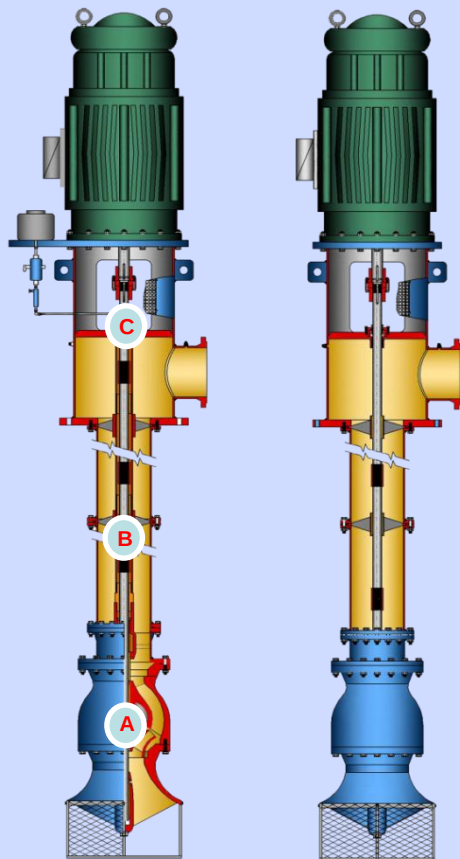


VTP Series

API-610 VS1, VS3, VS6

Latest Edition

The Dynapro Pumps Company in centrifugal pump design, development, manufacturing, and servicing to comply to the latest industry standards as full compliance equipment.



Enclosed Lineshaft

Open Lineshaft

Pump Description

Dynapro Pumps VTP Series are normally designed to operate in wells or sumps or tanks. The bowl assembly consists primarily of a suction case or bell, one or more pump bowls, and a discharge case. The number of stages is determined by the head requirements of the installation. The pump bowl assembly is positioned in the sump or well at a depth to provide the proper submergence. A pump shaft, common to all moving parts in the bowl assembly, provides mechanical linkage to the pump driver unit.

Two basic configurations of the bowl assembly are the open type and the enclosed type. Functional differences in the two types are in the methods employed to lubricate the line shaft. In the enclosed type, a tube is placed over the line shaft and lubricants are supplied to the bearings through the shaft tube. In the open type, no lubricants are used other than the fluid being pumped.

A. Bowl Assembly Design –

1. Flange type bowl with set screws connection.
2. Sleeve bearings operate in conjunction with pump shaft to provide long life and low friction.
3. Impeller(s) are enclosed type for long life and high efficiency with precision machined and balanced for minimize vibration.
4. Impeller(s) are with tapered collet as standard. Keyed impeller connections are available.
5. Optional construction features includes bowl and impeller wear ring, and impeller keyed to shaft for longer life and less maintenance.
6. Suction bell is cast iron with integral straightening vanes to prevent turbulence. Other materials available for special applications. Some pump models are supplied with entrance case.
7. Strainer (optional may be offered to prevent entry of foreign objects into pump suction. Strainer can be slip on basket type or conic type according to applications.

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Latest Edition

VTP Series is a heavy duty single or multistage pumps built in according to API-610, Latest Edition, and other world popular standards.

Standardized product ranges and customized fit basis to match the service requirements.



A. Column Assembly Design –

1. Registered fit system for accurate fit and available with flange and threaded type.
2. Lineshaft is open or enclosed construction.
3. Lineshaft(s) are threaded or keyed type.
4. Lineshaft turned, ground, and polished carbon steel with ends faced and threaded. Other materials available for special applications.
5. Shaft couplings bored and threaded from steel stock.

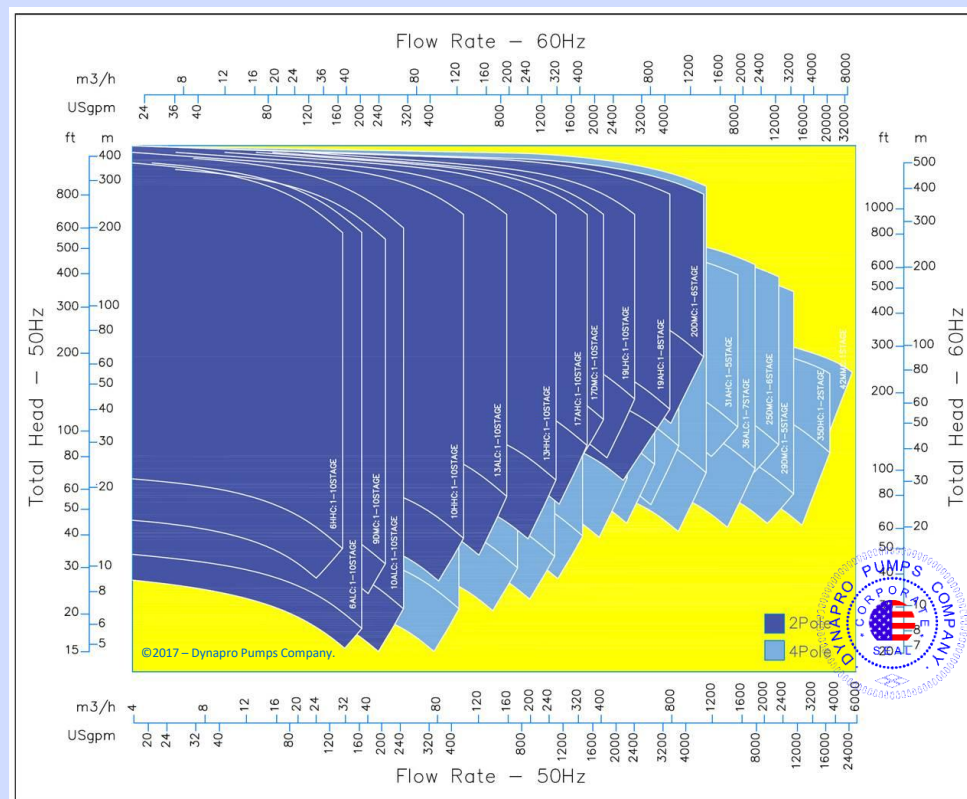
C. Discharge Head Design –

1. Discharge head provide support for entire column assembly and bowl assembly.
2. Stuffing box is available for gland packing and mechanical seal type.

Performance Ratings

Capacity	Q	40000 m ³ /h	(176000 USgpm)
Head	H	1600 m	(5250 ft)
Speed	n	3600 rpm	
Temperature		-190 To 175 °C	(-310 To 347 °F)
Pressure		160 barg	(2320 psig)

Hydraulic Coverage - VTP





All Dynapro Pumps products fully benefit from the latest developments and design tools to provide our Customers with leading-edge technology that will perfectly fit their needs and specifications.



Products Illustration

VTP – API 610 VS1

Wet pit, vertically suspended standard turbine pumps with discharge through the column.



VAF – API 610 VS3

Wet pit, vertically suspended, mixed flow and axial flow pumps with discharge through the column.



VTC – API 610 VS6

Can type or double casing diffuser, vertically suspended pumps with discharge through the column.



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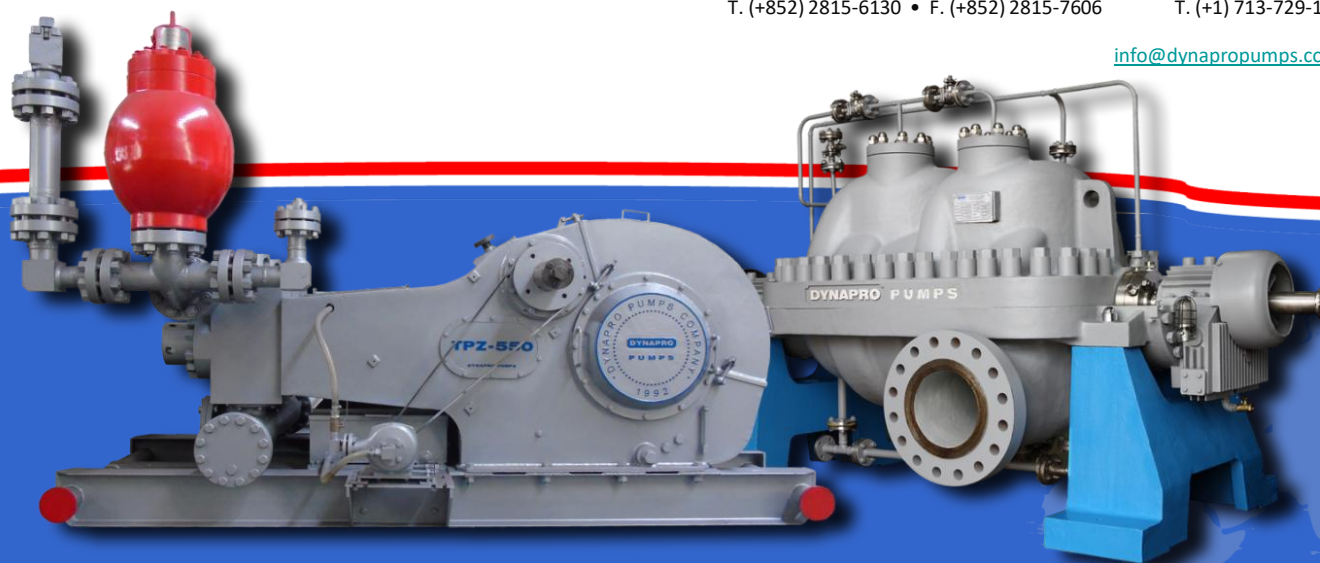
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The manufacturers reserve the right to alter
the specification and data to incorporate
improvements in design.
Certified drawings will be issued on request.

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