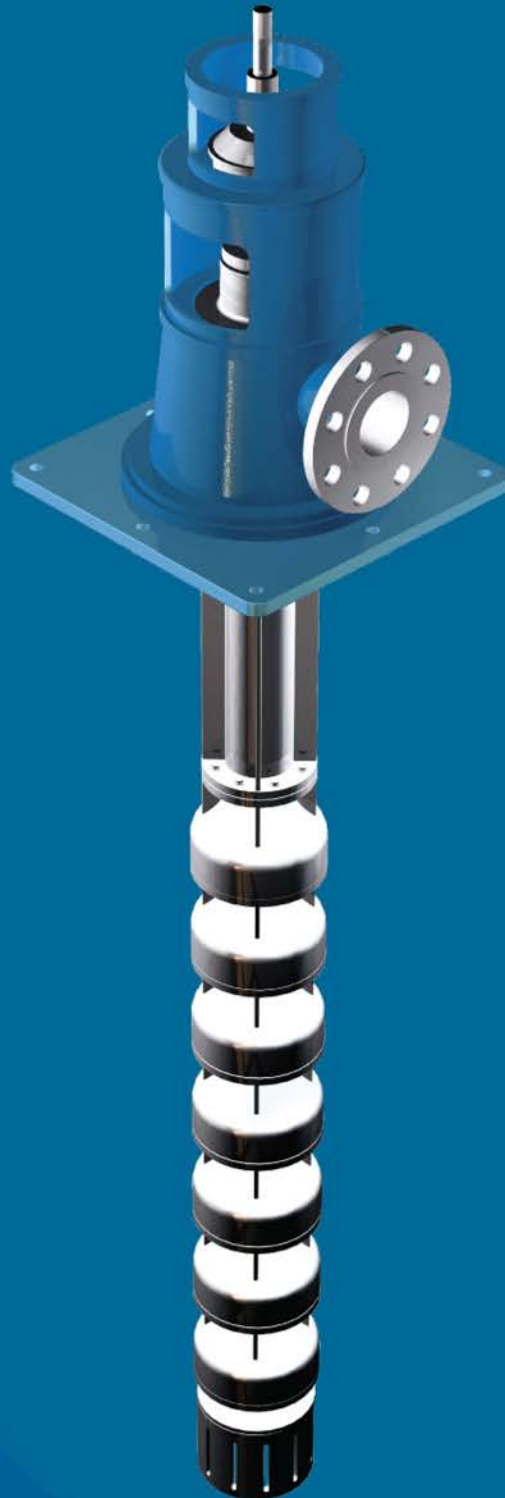


API 610 10th ed. Vertical Process Pump(VS1)

# TVP Series



**TRUFLO**

API 610 10th ed. Vertical Process Pump(VS1)

# TVP SERIES

## API 610 10th ed. Vertical Process Pump(VS1)

- Max.Capacity :  
14000m<sup>3</sup>/h (61600GPM)
- Max.Head : 280m (920ft)
- Temperature : 200°C (6800°F)
- Allowed Pressure :  
30kg/cm<sup>2</sup> (430psi)
- Power : 2000kw (2680HP)
- Material : DCI, WCB, CF8, CF8M, CF3,  
CN7M, CD4M
- Fabricated discharge head and flanged column.
- Flanged bowl construction.
- Alloy construction for corrosive /  
abrasive services.

The TRUFLO TVP is a multistage, heavy-duty single casing vertical turbine pump designed to API 610 (VS1)

It is available with either radial or mixed flow hydraulics to suit application requirements.

The TVP is designed to operate in a high pressures and temperature also extremes.

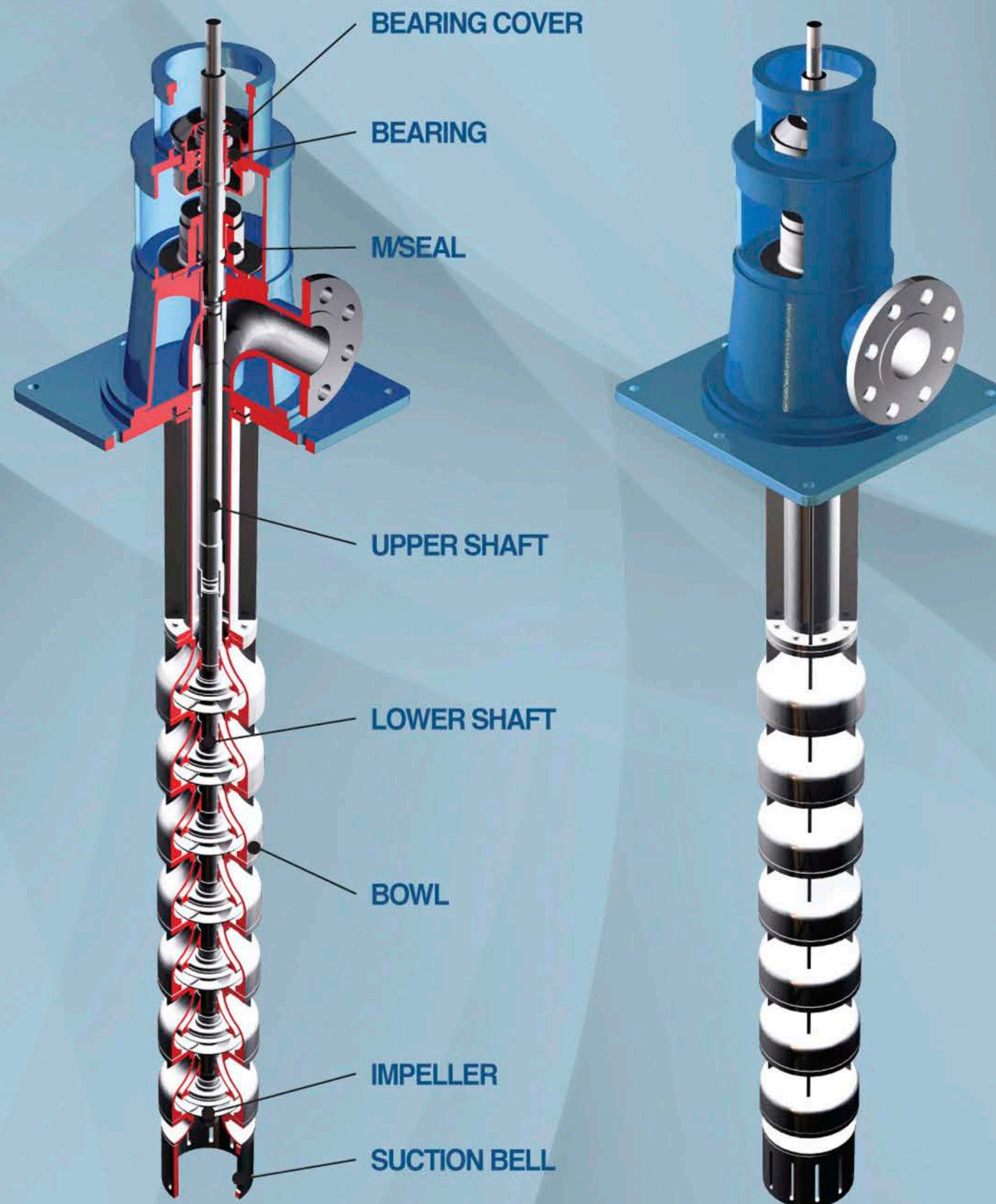
This pump covers a wide range of hydraulic conditions to meet virtually every pumping service in the industry with optimum efficiency.

The simple construction of TRUFLO VS1 pump offers ease of maintenance and installation.

### APPLICATION

- Refinery
- Chemical and petrochemical industries
- Liquefied gas
- Pipeline and transfer service
- Condensate service
- Offshore crude oil loading
- Lube oil
- Condensate extraction
- Seawater lift
- Stormwater and drainwater services
- Recovered oil
- Tank service





#### Suction Bell

Allows smooth entry of liquid into impeller eye, minimizes vortex formation.

#### Suction Bell Bearing

Provided for shaft stability.

#### Sand Collar

Prevents solids from entering suction bearing.

#### Impeller

Semi-open or enclosed for appropriate service.

#### Taper Lock

Alloy steel for fastening impellers on 17" and smaller sizes.

#### Keyed

Impeller fastened onto the shaft by keyed split ring.

#### Pump Shaft

Available in 316SS, 316L, 420J2, 17-4 PH, Monel and other alloys for strength and corrosion resistance.

#### Diffuser Bowl

Available in variety of cast materials. Glass lined cast iron standard through 18" sizes.

#### Stages

Flanged and bolted together for ease of maintenance.

#### Sleeve Type Bearing

Provided at each stage to assure stable operation away from critical speed.

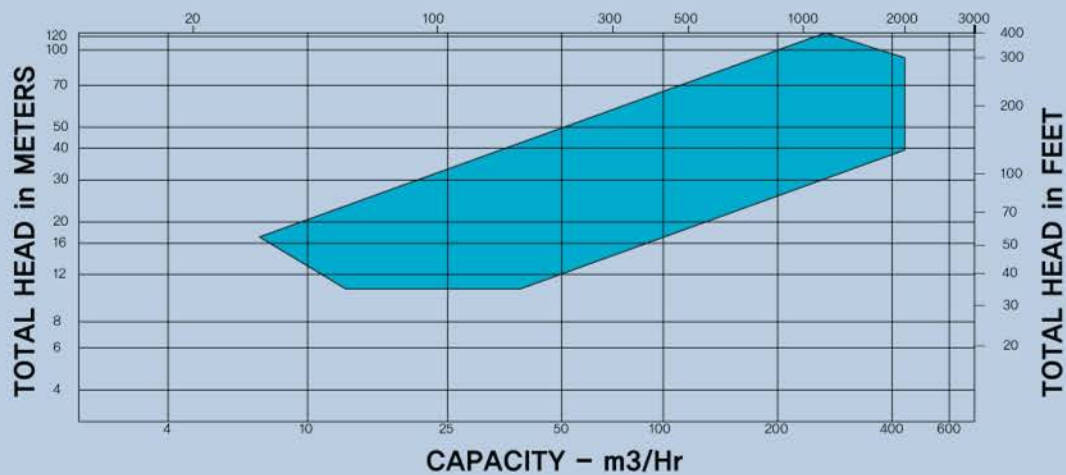
#### 11. Flanged Bowls

Registered fits assure positive alignment, ease of maintenance.

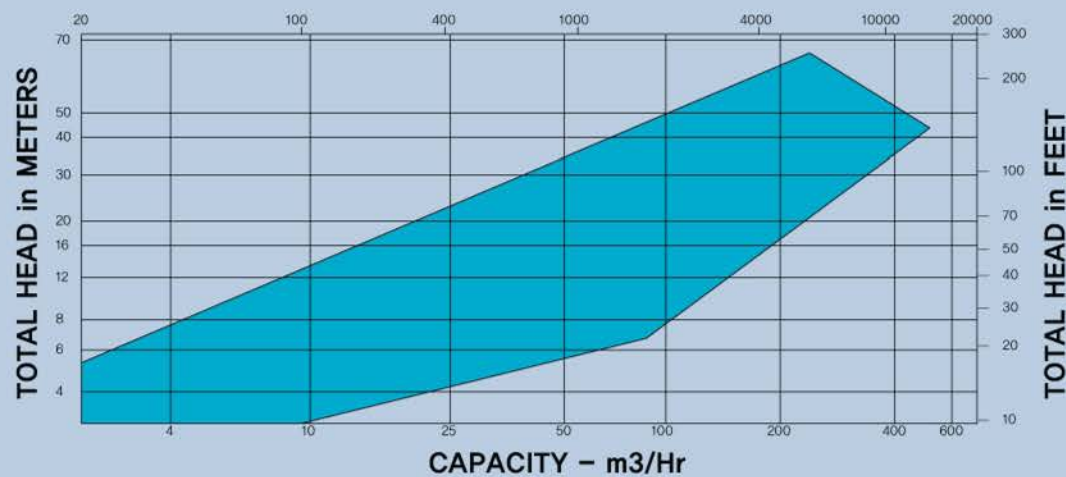
**API 610 10th ed. Vertical Pump (VS1)**

# PUMP SELECTION GUIDE

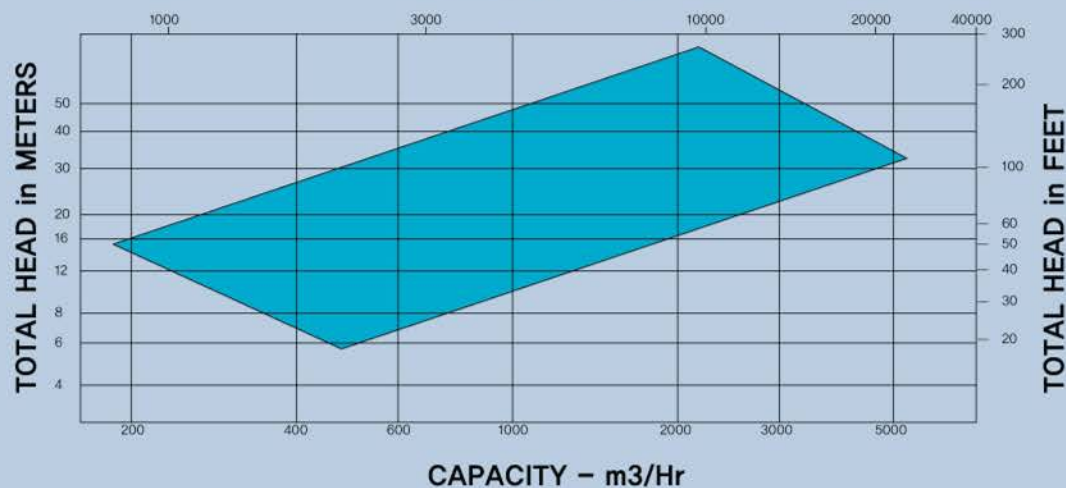
FAMILY CURVE FOR TVCP 3600 RPM  
CAPACITY – GPM



FAMILY CURVE FOR TVCP 1800 RPM  
CAPACITY – GPM

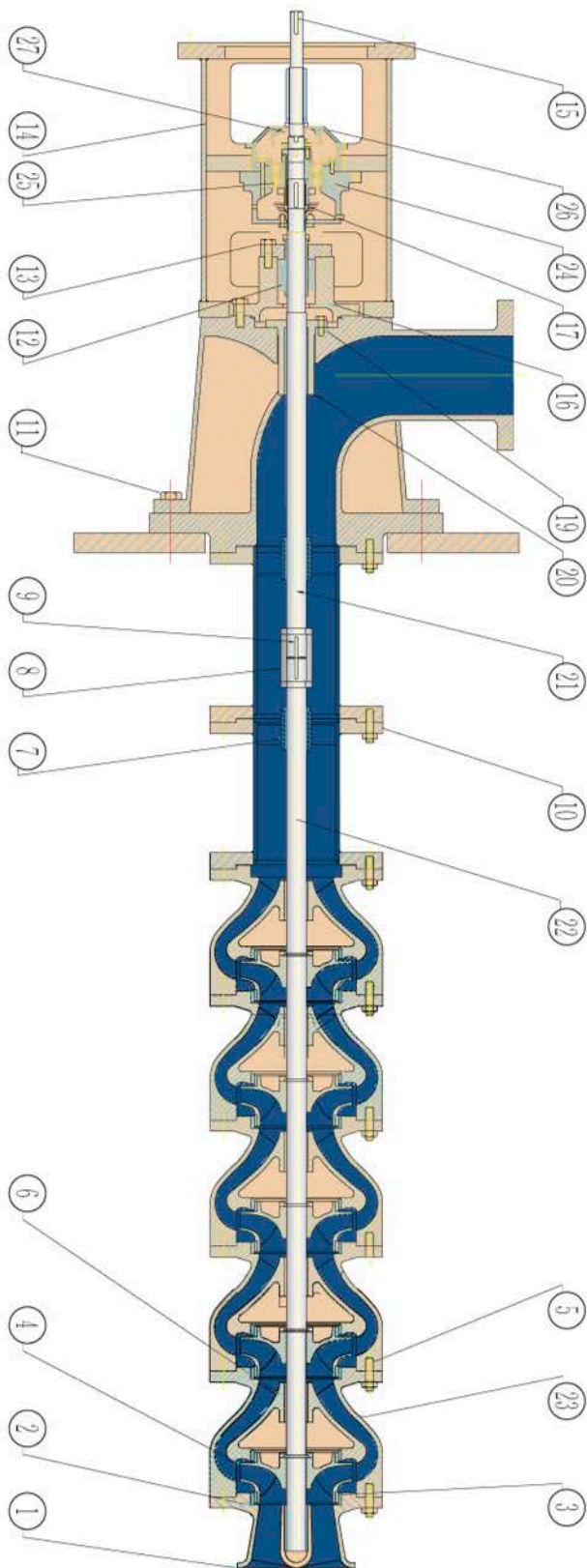


FAMILY CURVE FOR TVCP 1200 RPM  
CAPACITY – GPM





# SECTIONAL



27	SLEEVE NUT
26	BEARING COVER
25	BEARING
24	BEARING HOUSING
23	BOLT/NUT
22	LOWER SHAFT
21	UPPER SHAFT
20	PRESS.REDUCING BUSH
19	BOLT/NUT
18	S/B GASKET
17	BEARING SLEEVE
16	STUFFING BOX
15	SHAFT KEY
14	MOTOR ADAPTOR
13	M/C SEAL BLAND
12	M/C SEAL
11	BOLT/NUT
10	BEARING RETAINER
9	COUPLING KEY
8	LINE SHAFT COUPLING
7	LINE SHAFT BEARING
6	BOWL BUSH
5	BOWL
4	IMPELLER
3	IMPELLER WEARING
2	CASING WEARING
1	SUCTION BELL
NO.	PART NAME