



## Vertical Multistage Stainless Steel Centrifugal Pumps



TFV / TFVI / TFVL  
SERIES



## VERTICAL MULTISTAGE PUMPS

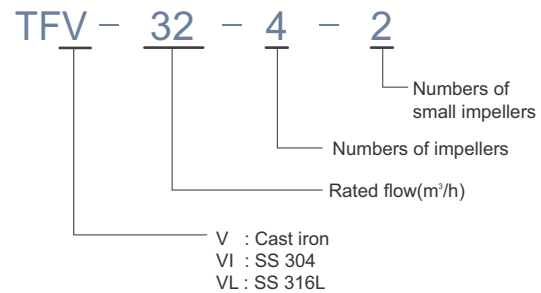
## Pumps

The TFV series is a series of vertical in-line multistage centrifugal pumps of in-line design, which are driven by standard electric motors.

The motor output shaft directly connects with the pump shaft through a coupling. The pressure-resistant cylinder and flow passage components are fixed between the pump head and the pump casing by means of staybolts. The pump casing has suction and discharge ports on the same level (in-line).

All pumps are equipped with a cartridge mechanical seal for easy maintenance. The TFVI and TFVL series are standardized pumps built in all stainless steel 304/316 construction. TFV series pumps are stainless steel pumps with the option of pump head and pump casing in cast iron construction.

## Nomenclature



## Applications

- Water supply systems in industrial and commercial establishments
- Industrial washing plants
- Cooling and air conditioning systems
- Water treatment plants
- Fire fighting systems
- Boiler feed
- RO plants
- Booster systems
- Irrigation and agriculture systems

## Salient features

- Broad range available
- Non corrosive material of construction
- Low noise level
- Space saving design
- Designed for continuous operation
- Service friendly
- Compatible with standard IEC motors
- Curve tolerance in conformity with ISO 9906, Annex A

## Motors

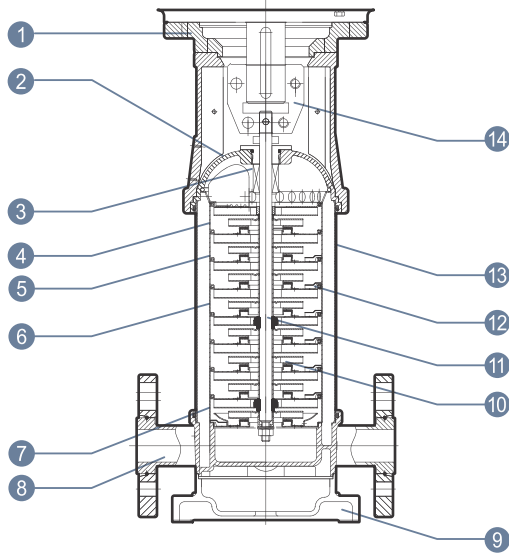
- Full-enclosed fan cooled two-pole standard motor
- Protection class : IP55
- Insulation class : F
- Standard voltage in 50 Hz : 1×220-230 / 240 V  
3×200-220 / 346-380 V  
3×220-240 / 380-415 V

## Operating range

- Max flow (Q) : 660 m<sup>3</sup>/h
- Max head (H) : 245 m
- Pumped liquids :  
Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers.
- Liquid temperature : -15 °C to +120 °C
- Altitude : up to 1000 m

#### Sectional view

#### TFV 1, 3, 5, 10, 15, 20

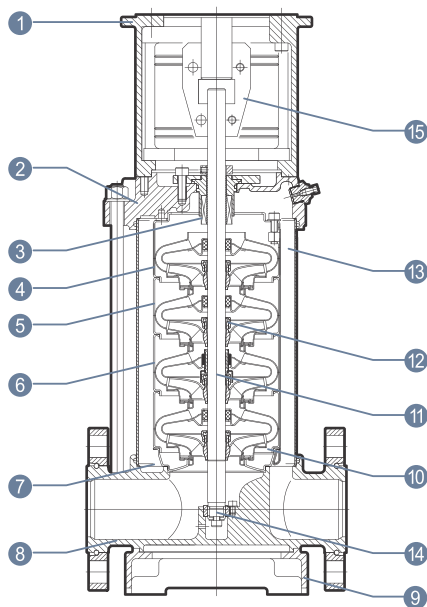


#### Construction

No.	Parts	Material	EN/DIN	AISI/ASTM
1	Pump head	Cast iron	EN-GJL-200	ASTM25B
2	Seal base	Stainless steel	1,4301	AISI304
3	Mechanical seal	Cartridge type		
4	Top diffuser	Stainless steel	1,4301	AISI304
5	Diffuser	Stainless steel	1,4301	AISI304
6	Support diffuser	Stainless steel	1,4301	AISI304
7	Inducer	Stainless steel	1,4301	AISI304
9	Base plate	Cast iron	1,4301	AISI304
10	Impeller	Stainless steel	1,4301	AISI304
11	Shaft	Stainless steel	1,4301/1,4401	AISI304/316
12	Impeller sleeve	Stainless steel	1,4301	AISI304
13	Cylinder	Stainless steel	1,4301	AISI304
14	Coupling	Carbon steel		
	Rubber part	NBR or FKM		
<b>TFV</b>				
8	Pump casing	Cast iron	EN-GJL-200	ASTM25B
<b>TFVI</b>				
8	Pump casing	Stainless steel	1,4301	AISI304

(TFVL option)

#### TFV 32, 42, 65, 90



#### Construction

No.	Parts	Material	EN/DIN	AISI/ASTM
1	Motor bracket	Cast iron	EN-GJL-200	ASTM25B
3	Mechanical seal	Cartridge type		
4	Top diffuser	Stainless steel	1,4301	AISI304
5	Support diffuser	Stainless steel	1,4301	AISI304
6	Diffuser	Stainless steel	1,4301	AISI304
7	Inducer	Stainless steel	1,4301	AISI304
9	Base plate	Cast iron	EN-GJL-200	ASTM25B
10	Impeller	Stainless steel	1,4301	AISI304
11	Shaft	Stainless steel	1,4301/1,4301/1,4401	AISI316/304/431
12	Intermediate bearing	Tungsten carbide		
13	Cylinder	Stainless steel	1,4301	AISI304
14	Bottom bearing	Tungsten carbide		
15	Coupling	Carbon steel		
	Rubber part	NBR		
<b>TFV</b>				
2	Pump head	Cast iron	EN-GJL-200	ASTM25B
8	Pump casing	Cast iron	EN-GJL-200	ASTM25B
<b>TFVI</b>				
2	Pump head	Stainless steel	1,4301	AISI304
8	Pump casing	Stainless steel	1,4301	AISI304

(TFVL option)

*High Performance*

## *Stainless Steel Pumps*



TFV series pumps are designed and engineered for a variety of clearwater applications.

### **A.T.E. Advantages**

A.T.E.'s Flow Technology division with its India-wide network of regional sales and service offices is always close to its customers and provides them prompt pre and post sales service.

Our qualified and trained sales and service teams support our customers on product recommendation, application engineering, design layouts as well as installation.

### **Flow Technology**

Backed by more than three decades of experience in the field of flow technology working with many world renowned pump manufacturers, A.T.E. is well established as liquid transfer specialist in the Indian and Bangladesh market. By leveraging the core competency of its skilled professionals in flow technology, A.T.E. has the ability to offer standardised as well as customised solutions.



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