

Vertical Turbine Pump - JPVM

Vertical Axial Pump - JPVA



Vertical Turbine Pump



Vertical Axial Pump

Features

The vertical pump was special designs and materials have made it ideal for municipal and plant water supplying, drainage, flood control, pipeline pumping, power plant service, and other industrial use of all types.

Quality is reliable and durable, without complex maintenance, excellent electricity properties and high efficiency.

- Minimal installation space is required..
- Built for trouble free operation and requires a minimum of maintenance and service.
- Closed impeller and open impeller with static and dynamic balancing test. This type of pump can operate without water feeding delay.
- Vertical turbine pumps are also used in inline system , pipelines, booster and low NPSH system.
- Easily modified for changing hydraulic conditions.
- Standard motors of all makes are easily matched and supported on all discharge heads.



Performance Specification

- ◆ Range of power:
2HP ~ 500HP
1.5W ~ 370KW

Range of head:

- ◆ 5M ~ 110M
16ft ~ 360ft

Range of capacity:

- ◆ 6600US/GPM ~13200US/GPM
2.5m³/min ~50m³/min
3600CMD ~ 72000CMD

Applications

- Pump from well
- Water supply for building and industry
- Agricultural irrigation
- As booster in tubes and circulating
- De-watering for pumping stations



Installation

• Seal

Various arrangements are provided for a positive seal and simple maintenance.

1. packing box for general service.
2. Optional internal and external mechanical seals.

• Shaft

pump shafts are turned, ground, polished and sized for probable thrust and torque

• Discharge case

Connects the column pipe to the bowls keeping column and head friction losses to minimal. Oil lube discharge cases are furnished with bypass ports that equalize the internal tubing pressure and prevents water from entering the oil lube and bearings.

• Impeller

Impellers, closed or semi-open, are precisely trimmed and balanced to reduce vibration and wear.

• Adjustable coupling

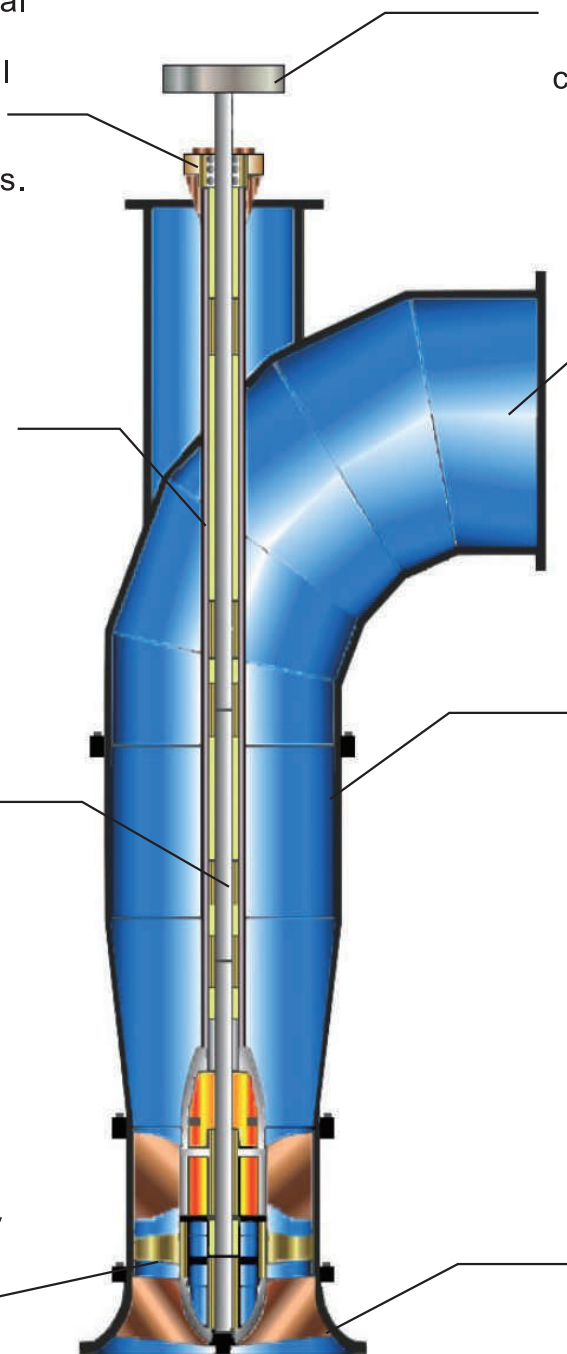
Rigid adjustable coupling can bear maximum strength

• Discharge head

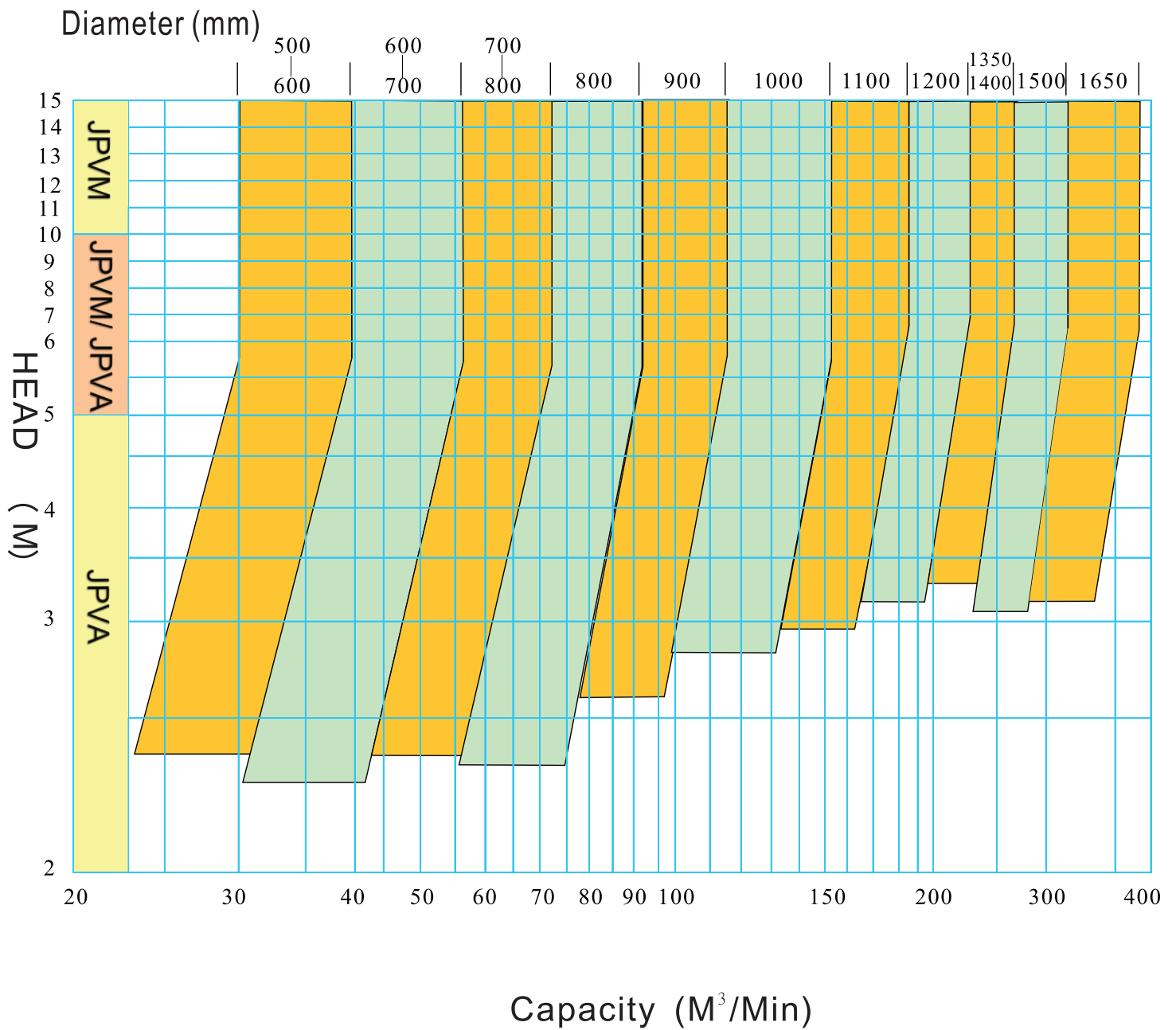
Sectional elbow available for easy access, simple installation and deep well utilization. Heads are accessible in high strength cast iron, fabricated steel or other numerous materials that are compatible with the fluid pumpage. Discharge heads are commonly coated internally for product corrosion coatings, efficiency improvement and NSF coatings for potable water are electively available.

• Bowl

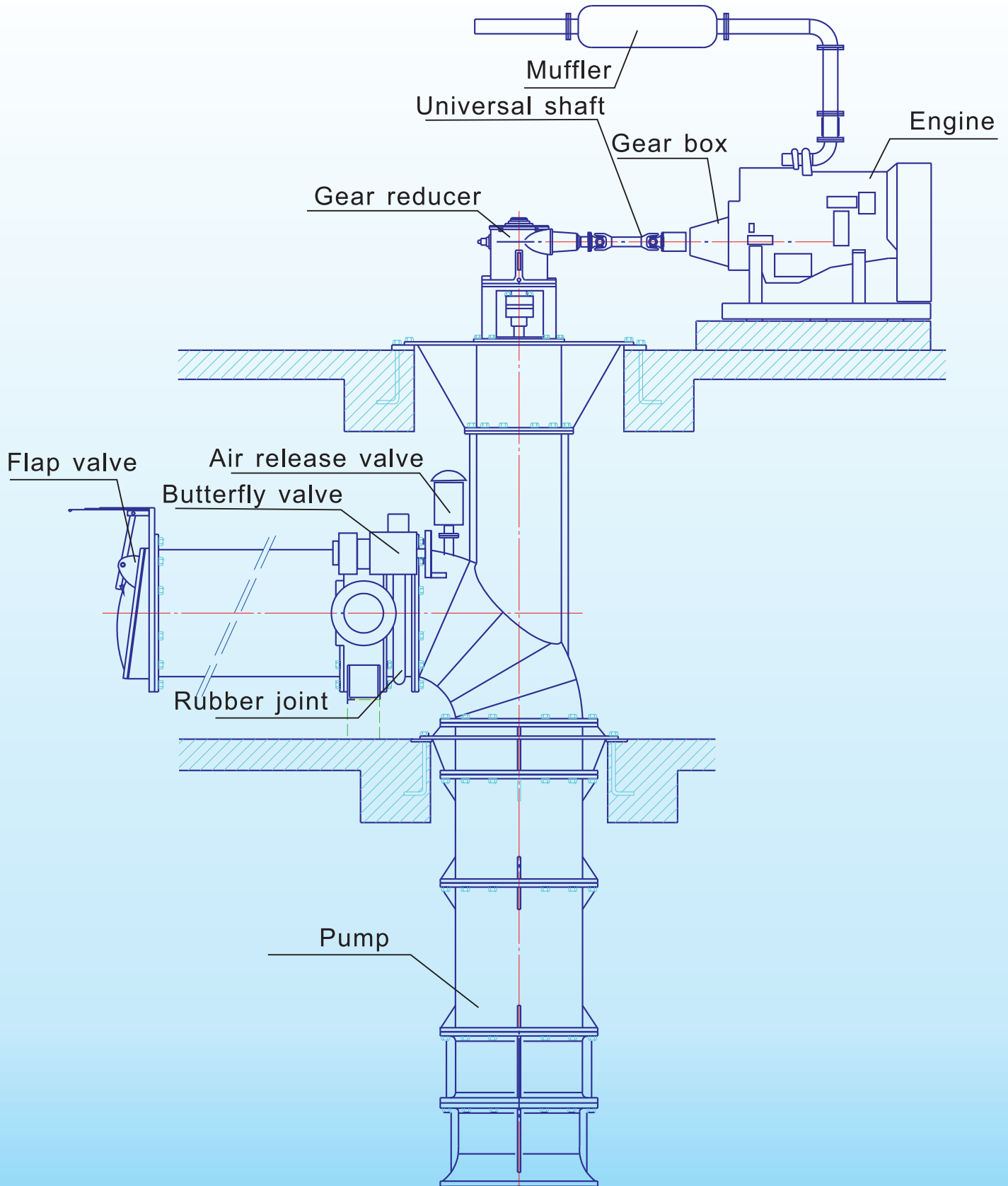
Bowls are cast, enameled or plastic coated as standard to achieve peak efficiency and reduce friction. Dual bronze and rubber bearings are standard, providing alignment and dampening vibration.



Performance Curve

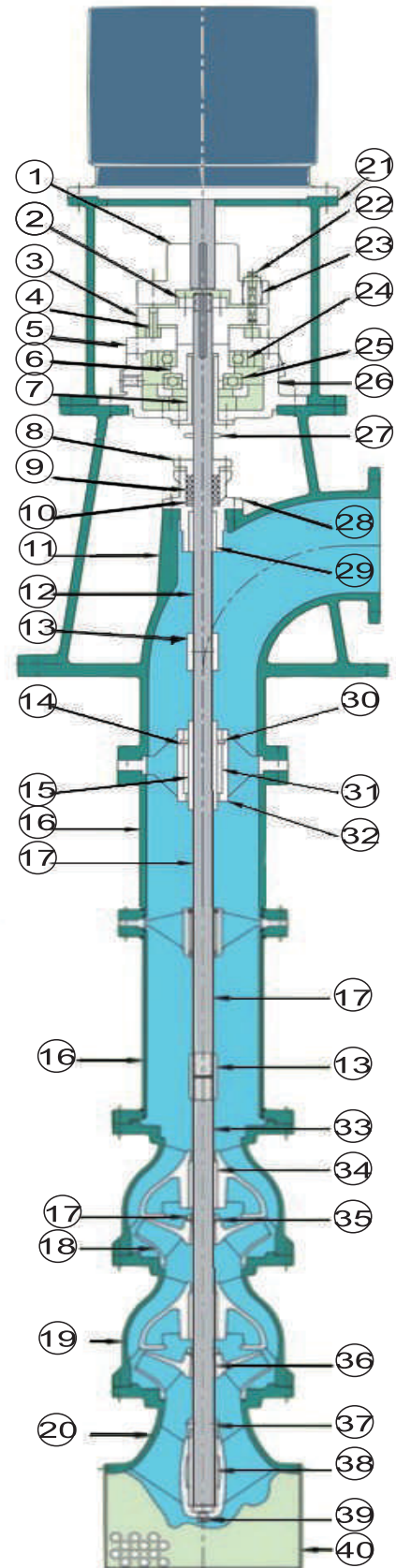


Installation



Sectional Drawing

No.	PART NAME
1	DRIVE SIDE COUPLING
2	ADJUSTABLE NUT
3	PUMP SIDE COUPLING
4	PATCHET BAR
5	PATCHET PLATE
6	BEARING BUSHING
7	NECK PIPE </td
8	GLAND
9	GLAND PACKING
10	LANTERN RING
11	DISCHARGE HEAD
12	HEAD SHAFT </td
13	COLUMN SHAFT COUPLING
14	BEARING WASHER
15	LINE SHAFT SLEEVE
16	COLUMN PIPE
17	LINE SHAFT
18	IMPELLER
19	DIFFUSER
20	SUCTION BELL
21	MOTOR SUPPORT HEAD
22	COUPLING BOLT
23	COUPLING RUBBER BUSHING
24	RADIAL BEARING
25	THRUST BEARING
26	BEARING HOUSING
27	FLINGER
28	STUFFING BOX
29	STUFFING BOX BEARING
30	BEARING RETAINER RING
31	SPIDER BEARING
32	SPIDER
33	PUMP SHAFT
34	DIFFUSER BEARING
35	IMPELLER LOCK WASHER
36	IMPELLER LOCK COLLET
37	SAND CAP
38	SUCTION BELL BEARING
39	SUCTION BELL PLUG
40	STRAINER



Applications



River Water Intake Well



Water Intake at Reservoir



Lake Water Platform



Raw Water Intake

Pump Testing Facilities

Each pump parts, including shafts and impellers must undergo precisely test that makes pump run smooth and silent. Each pump will proceed the performance test, then go through continually operating to ensure no malfunction before shipping.



Computerized Automatic Pump Testing System



Impeller Balancing Machine



Pump Performance Test



Pump Performance Test



Pump Performance Test

