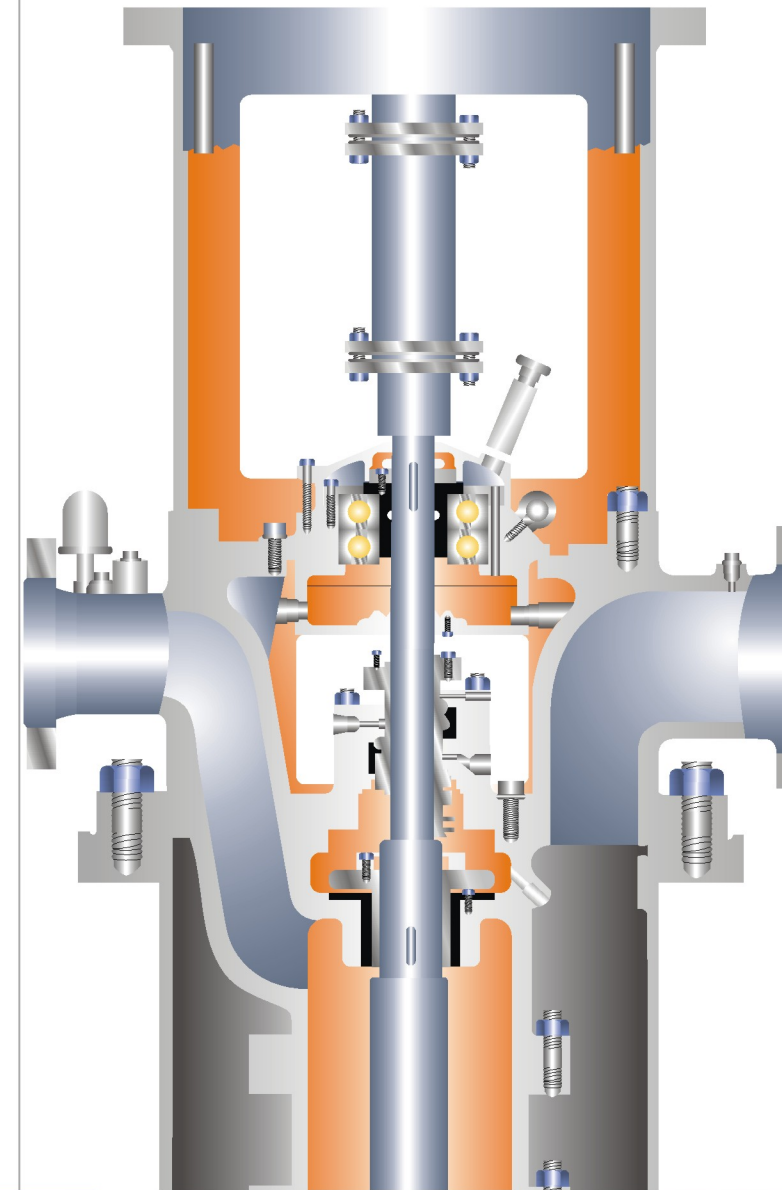
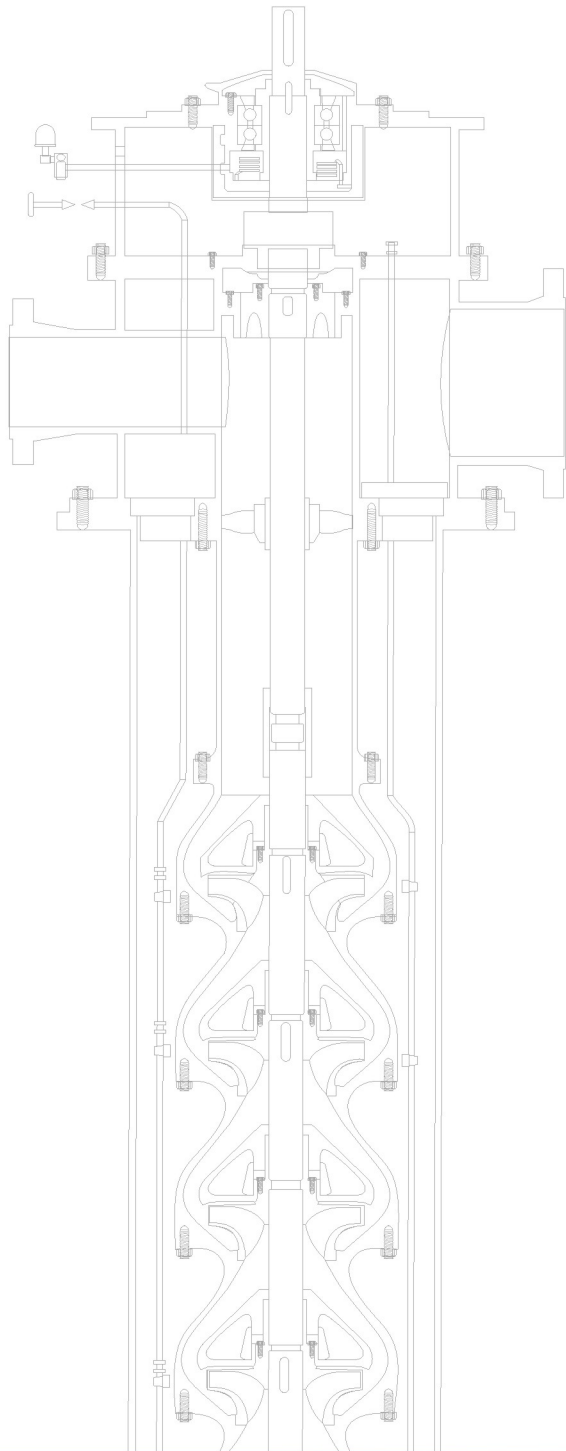


TG MMTV



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Vertical Multi Stage
Barrel Pump
acc. to API 610 10th Ed
code VS 6





GENERAL

TG MMTV series is double casing (barrel) diffuser vertically suspended pumps which is designed according to API 610 Ed (Code VS 6). This structure is mostly suitable for application which very low positive suction head.

RANGE OF OPERATION

Capacity	Q	2 to 3000 m ³ /hr
Total Head	H	Up to 1000 m
Pressure	P	Up to 15 MPa
Temperature	T	-80 to +250 °C

NOMENCLATURE

Ex. TG MMTV A200 - 80 X 5 - J

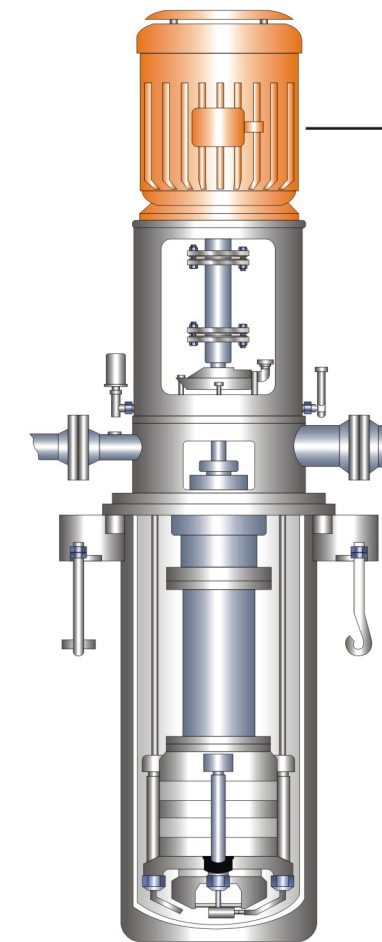
TG MMTV	:	Series name
A	:	Classification code :
		A - Multi stage structure guide name
		B - Multi stage diffuser casing structure
200	:	Rated capacity, m ³ /hr
80	:	Rated head, single stage, m
X5	:	Number of stage (no indication for single stage)
J	:	Structure code :
		D - First stage impeller double suction
		J - First stage impeller submerged

APPLICATION

For various clean or contaminated, low or high temperature, mild or corrosive liquids. Mainly employed in oil refinery, petrochemical, cryogenic, pipeline booster, offshore platform, and LPG plant.



INSTALLATION METHODS



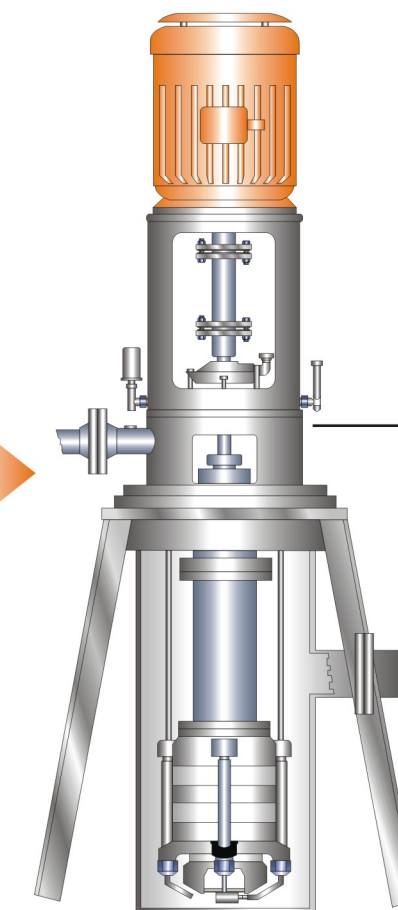
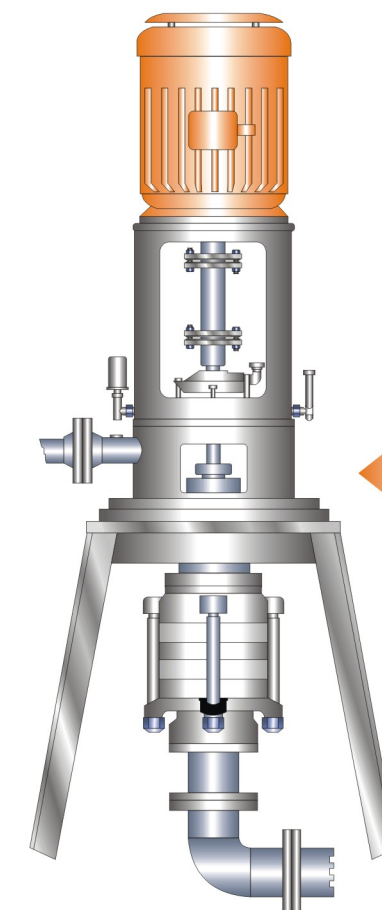
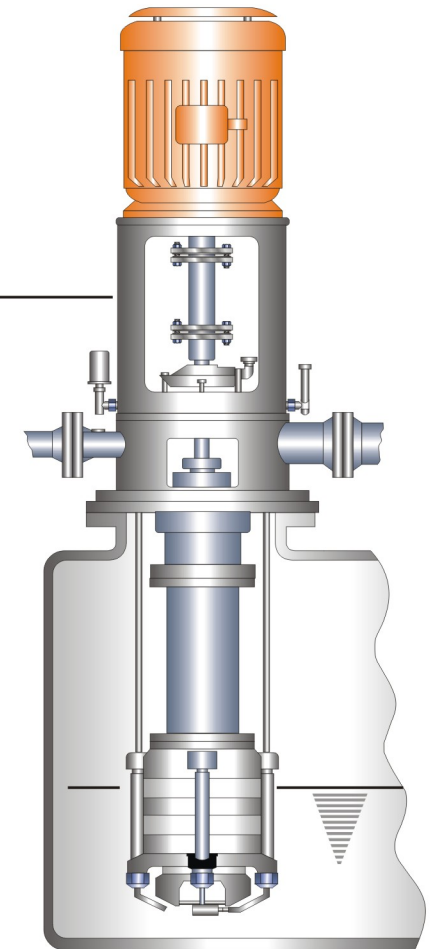
Standard Design

Suitable for most application of vertical barrel pumps. In line suction and discharge nozzles locate above the baseplate, so pumps can be used as standard pipeline pump.

The barrel only carries the suction pressure. Baseplate can be welding type or flat type according to the space or customer's requirements. Substituting pipe to drain away the pumped liquid is available.

Tank Pump and Sump Pump

Can be used as standard tank pump, booster transfer pump, and sump pump. Discharge nozzle is above mounting flange that can meet the user's requirement.



Flange Connection Type

Meet the space requirement. Discharge nozzle is above mounting flange, suction nozzle can be located at any point.

TG MMTV Type A-J

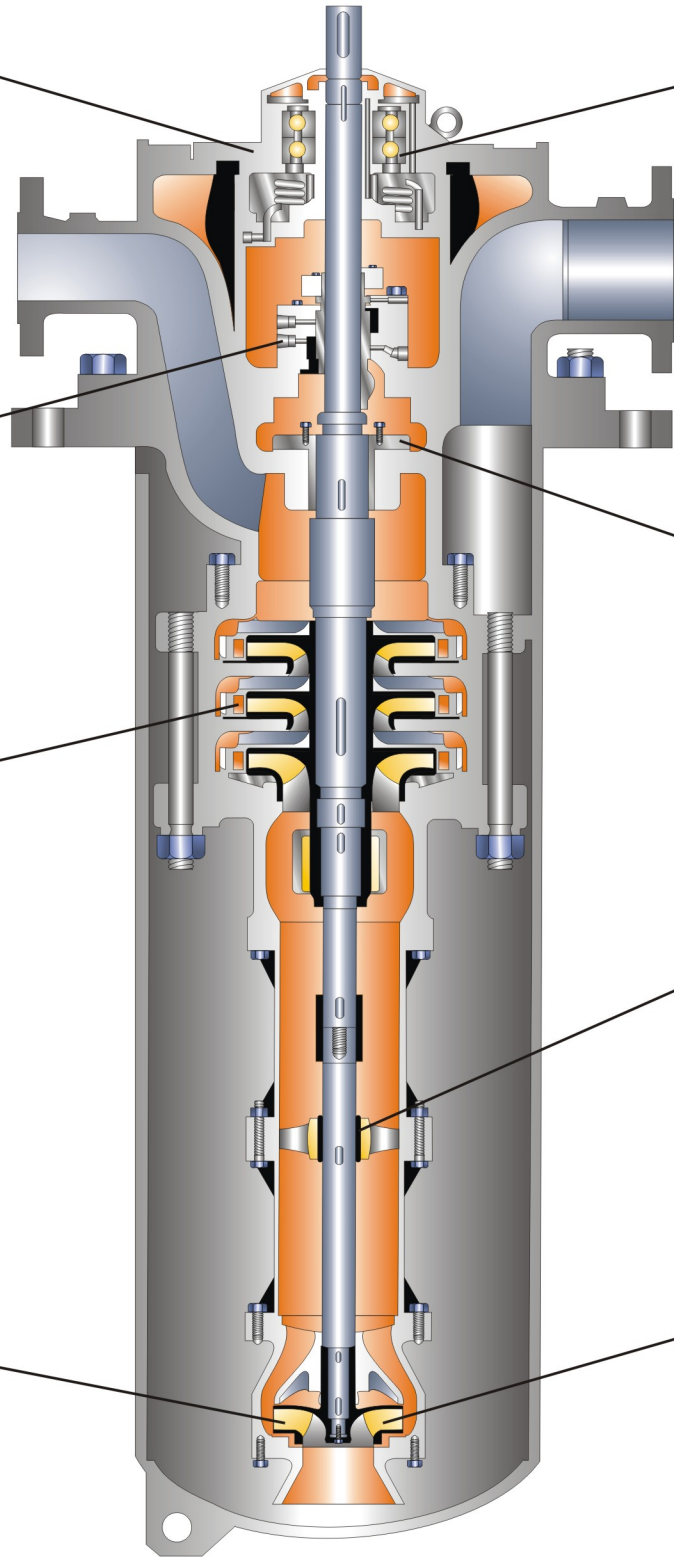
Sectional Drawing

Provide access to monitor bearing temperature & vibration, ensure that pump is running in proper condition.

Dimension of seal cavity comply with API 610 standard which can configured various form of seals and auxiliary system.

Adopting guide vane with compact structure, high head of single impeller so the pump is suitable for high-head working condition.

First stage impeller has good suction performance, coupled with support at entrance, ensure the pump of low NPSHR, and shortening its insertion to working medium in the same operation condition.



Adopting slide bearing structure, using of thin oil lubrication. Pump can be water cooled and air cooled which effectively reduce the bearing chamber temperature, suitable for high temperature application.

Axial thrust is balanced by plate structure, automatically adjust the gap during operation ensure minimum axial thrust.

Slide bearings adopt multi-point structure bearing spacing comply with requirement of API 610 standard. Bearing material is high wear-resistant graphite or repairable composite.

First stage impeller is located between bearing which space comply with API 610 standard, so that the entire rotor unit has good support, ensuring the stability & reliability of operation.

TG MMTV Type B

Sectional Drawing

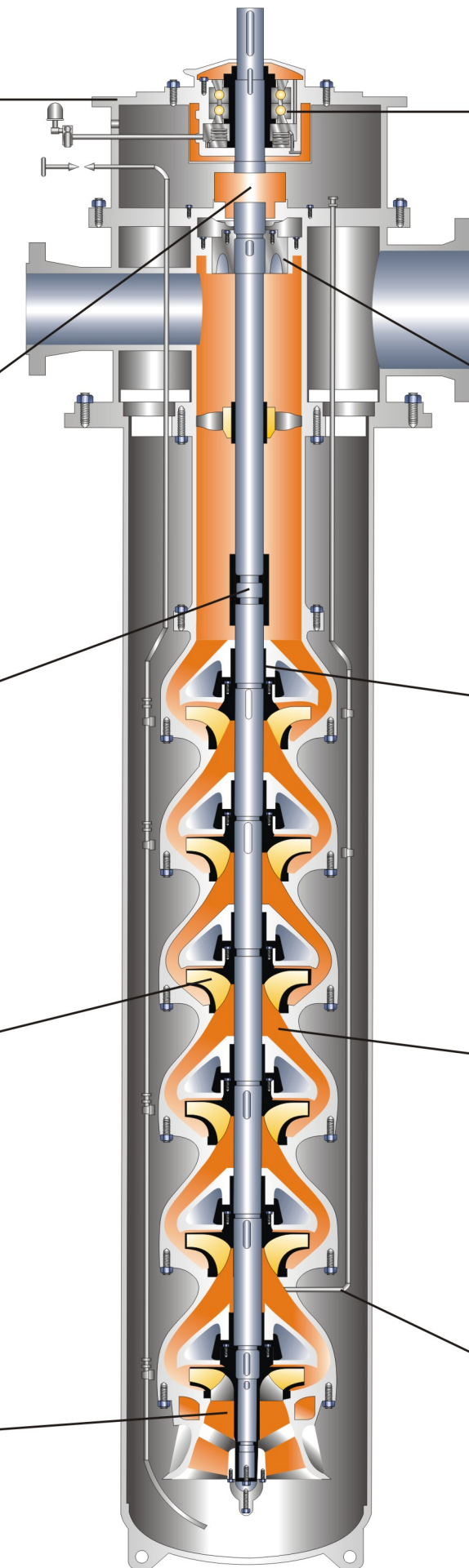
Provide access to monitor bearing temperature & vibration, ensure that pump is running in proper condition.

Dimension of seal cavity comply with API 610 standard which can configured various form of seals and auxiliary system.

Reliable coupling guarantee a good accuracy of the shaft to increase the pump insertion depth, expanding the application to the pump.

Impeller hydraulic design is good performance, high efficiency & reliable.

First stage impeller is located between bearing, which space comply with API 610 standard, so that the entire rotor unit has good support, ensuring the stability & reliability of operation.



Adopting slide bearing structure, using of thin oil lubrication. Pump can be water cooled and air cooled which effectively reduce the bearing chamber temperature, suitable for high temperature application.

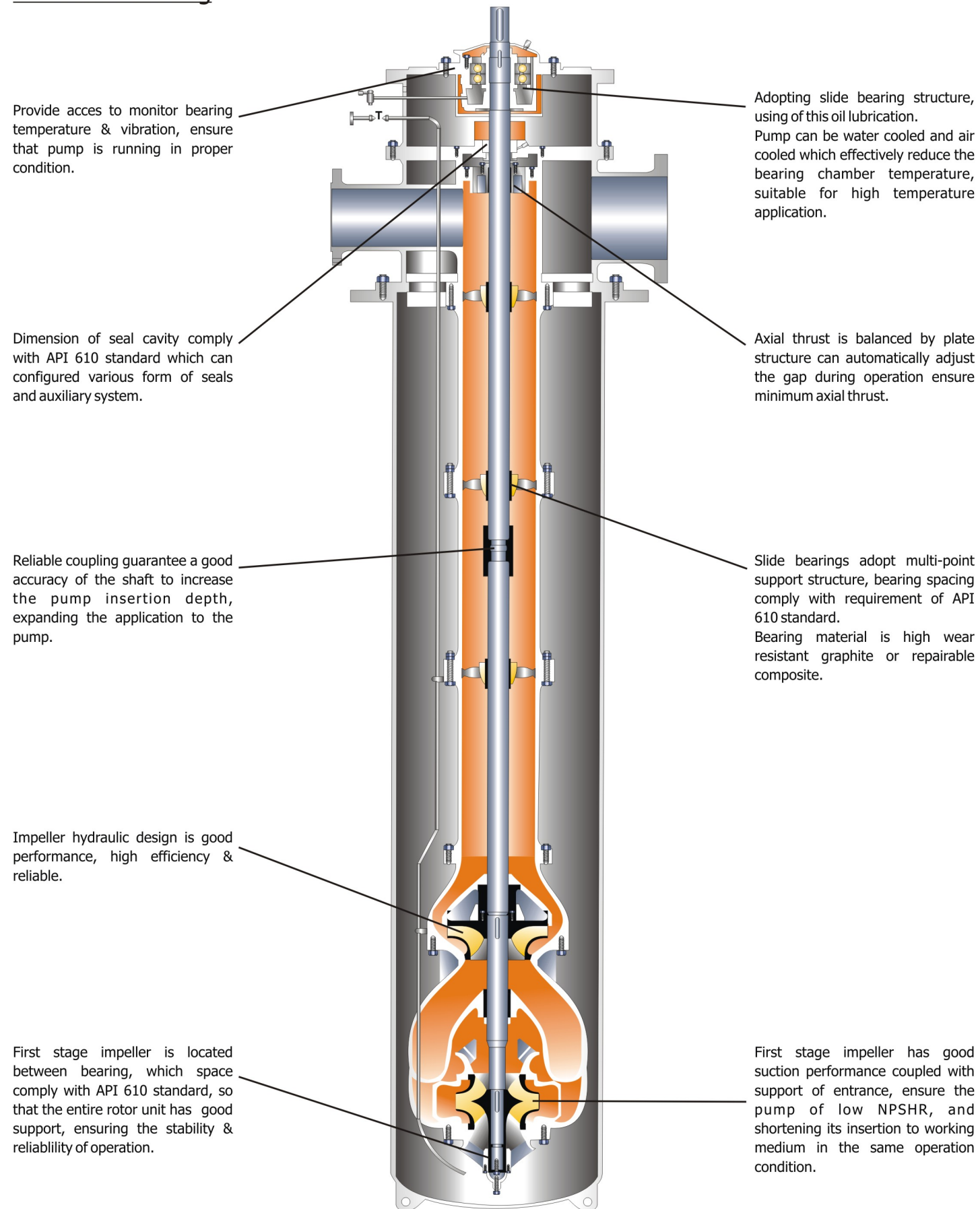
Axial thrust is balanced by plate structure can automatically adjust the gap during operation ensure minimum axial thrust.

Slide bearings adopt multi-point support structure, bearing spacing comply with requirement of API 610 standard. Bearing material is high wear resistant graphite or repairable composite.

Discharge structure / diffuser with guide vane with stable performance hydraulic.

Liquids is taken through pipe to flush mechanical seal, meanwhile hold the pressure of chamber and prevent evaporation of pumping medium.

Sectional Drawing



Sectional Drawing

