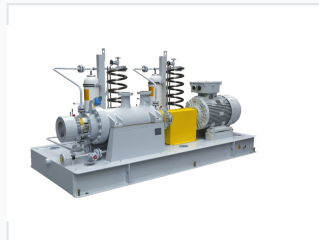


API610 BB5 Multistage Centrifugal Process Pump

This API610 BB5 process pump is a horizontal, multi-stage centrifugal pump with a double-shell, segment-type design. It is suitable for transferring clean, flammable, explosive, or toxic liquids such as oil, refined oil, and boiler feed water.



ADDITIONAL IMAGES



Overview

High-Pressure API610 BB5 Process Pump

The BMD series is a horizontal, multi-stage centrifugal pump designed for the most demanding petrochemical applications. Featuring a double-shell barrel casing and center-line support, it provides exceptional structural integrity for high-temperature and high-pressure fluid transport. This API610 BB5 compliant pump is engineered for maximum reliability in handling clean, flammable, toxic, or explosive liquids.

Performance Metrics

Key Performance Ratings

900 m³/h
Max Capacity

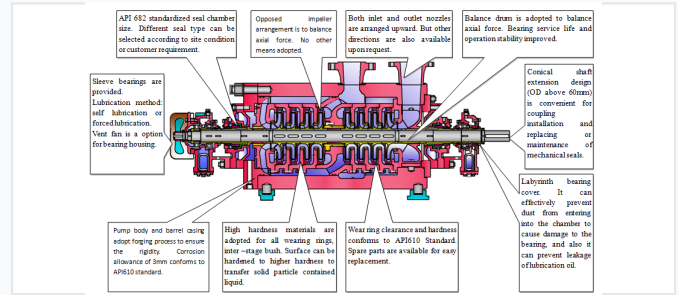
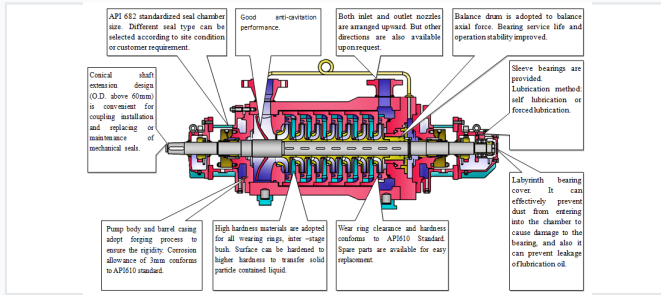
2200 m
Max Head

25 MPa
Design Pressure

Technical Specifications

Temperature Range	-80°C to 450°C
Standards Applied	API610 BB5, API 682, APIQ1
Pump Configuration	Horizontal multi-stage, double shell, radial split, center-line supported

Design Features



Casing & Rigidity

- Forged pump body and barrel casing for high rigidity
- 3mm corrosion allowance conforming to API610
- Radial diffuser structures with concentrically-braced sections
- Upward arranged suction and discharge nozzles

Axial Force Balancing

Balance drum or opposed impeller arrangement for enhanced bearing service life

Mechanical Components

Bearing & Lubrication

- Sleeve bearings with self-lubrication or forced lubrication options
- Labyrinth bearing covers to prevent dust entry and oil leakage
- Optional vent fan for bearing housing

Sealing & Shaft

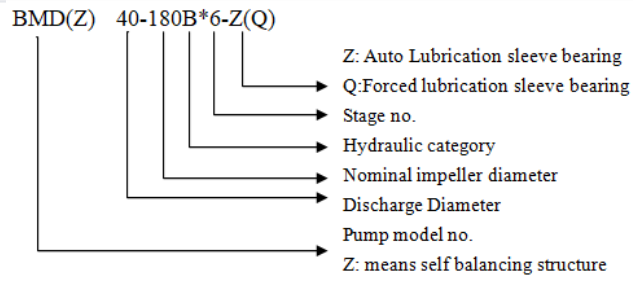
- API 682 standardized seal chamber for various seal types
- Conical shaft extension (O.D. > 60mm) for easy coupling and seal maintenance
- High hardness wear rings and inter-stage bushings

Applications

Suitable Media

Crude Oil, Refined Oil, LPG, Light Hydrocarbons, Boiler Feed Water

Nomenclature



Model Identification

Code Component	Description
BMD(Z)	Pump model (Z: self-balancing structure)
40	Discharge Diameter
180	Nominal Impeller Diameter
B	Hydraulic Category
6	Number of Stages
Z/Q	Lubrication (Z: Auto/Sleeve, Q: Forced)