Operating Data
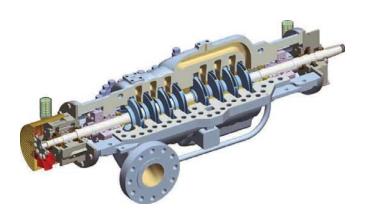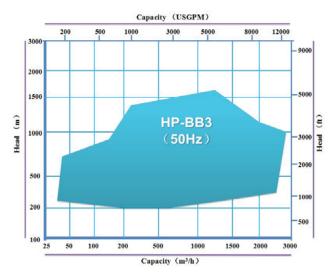
Standard: API610−2010 (ISO 13709)
Capacity: 20 to 5000 m³/h
Head: up to 1500m
Pressure: up to 250bar
Temperature: − 80℃ to +150℃

Typical Applications

Widely used in medium and long distance pipeline transportation, process boosting, offshore platform water injection and crude oil transportation, seawater desalination, boiler feed water, Lean methanol and Semi lean methanol pump of coal chemical, deaerated water pump.

Features

- Opposed impeller construction for axial thrust balance.
- Double volute construction for radial thrust balance.
- Suction and discharge nozzles cast integral with the bottom half case on opposite sides.
- Integral cast seal chamber operating at suction pressure.
- High tensile strength parting flange studs with top mounted capnuts.
- Pedestal mounted pump case near horizontal centerline.
- Dynamically balanced impellers.
- Flanged stationary wear parts to control interstage leakage.
- Replaceable stationary wear parts.
- Replaceable center and throttle shaft sleeves.
- Replaceable or integral impeller hub and eye rings.
- Wear parts retained at axial split line for ease of assembly.
- Low NPSH first stage single suction impellers or double suction first stage impellers.
- Ball bearings, single row inboard, duplex angular contact thrust bearing outboard.

General

The BB3 is a horizontal, axially split, double volute, opposed impeller, multi−stage pump, which is in full compliance with API610, 10th edition (ISO 13709). It is available in a range of hydraulic sizes and number of stages with material combinations to suit many applications. The pump may be supplied with either a single suction first stage impeller or supplied with double suction first stage impeller.

The whole pump core (core package) can be replaced within 8 hours. And all the maintenance and replacement parts can be done without removing inlet and outlet pipes and motor. The internal inspection and overhaul only need to do every 4 years.