

API610 BB1 Axially Split Process Pump

This API610 BB1 axially split pump features a rigid design for reliable operation. It is engineered as a between-bearing centrifugal pump, available in horizontal, single-suction or double-suction configurations.



ADDITIONAL IMAGES



Product Overview

API610 BB1 Axially Split Process Pump

The BA series is a high-performance, between-bearing centrifugal pump designed for heavy-duty industrial applications. Engineered to the BB1 type of the API610 standard, it features an axially split casing for ease of maintenance and a double-suction impeller for balanced hydraulic thrust. This pump is ideal for critical process services in refineries, power plants, and offshore drilling, offering high efficiency and reliable operation under demanding conditions.

Operating Parameters

Key Performance Metrics

12000 m³/h

Max Flow Rate

220 m

Max Discharge Head

2.5 MPa

Design Pressure

800 mm

Max Diameter

Temperature Range

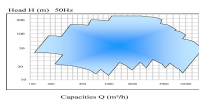
-40°C to +200°C

Design & Construction

Features and Benefits

- **Flanges**
ANSI, ASME standard available, API610 metric body.
- **Casing**
Axially split, easy maintenance.
- **Bearing Box**
Heavy duty bearing box, oil ring cooling, water coil cooling, fan cooling available.
- **Impeller**
Optimized double suction impeller. High efficiency, stable.
- **Shaft**
Hard shaft. Impeller and shaft assembly dynamic balanced to ISO1940-1.

Performance Ranges



Performance shown are assumed and may be used for preliminary selection only.

Please visit our website: www.ahmcorp.com to know more.

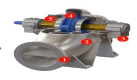
Please contact our sales engineer and open up your file and performance needs and share pump selection and performance curve.

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API610 is a general standard. It does not provide the details of geometry of the API610 Process pumps. It is a derivative of the standard and is not intended to be used for the design of any specific pump. The details of the geometry of the pump should be determined by the manufacturer.

Fig. 1. Working Model. Impeller for API610 Pump. Drawing 2-0-017

Design Process: 4/2016



Technical overview highlighting the axially split casing, double suction impeller, and performance ranges for 50Hz and 60Hz operation.

Pump Type

API610 BB1 • Axially Split • Between-Bearing • Double Suction

Hydraulic Features

- Double volute design to balance radial force
- Double suction impeller for automatic axial force balancing
- Anti-cavitation performance optimization
- Dynamically balanced assembly to ISO1940-1

Heavy-Duty Mechanical Design

Features a heavy-duty large diameter shaft with back-to-back thrust bearings to minimize deflection. The integral cast bearing chamber supports rolling or sleeve bearings with cooling options including fan, oil ring, or water coils. Connection provisions are included for remote monitoring of temperature and vibration.

Materials & Standards

Common Component Materials

Part	S-5 Class	S-6 Class
Body/Cover	Carbon Steel	Carbon Steel

API 610 Material Classes

S-5, S-6, C-6, A-7, A-8, D-1, D-2

Sealing & Support

Sealing Systems

- API 682 Standard seal chamber
- Cartridge and non-cartridge mechanical seals
- Single, double, or tandem mechanical seals
- Packing gland options available

Application Fields

Target Industries

Crude Oil Transfer, Petrochemical, Coal Chemical, Natural Gas Processing, Nuclear Power, Offshore Drilling