

API610 BB3 Axially Split Multi-Stage Pump

This API610 BB3 axially split multi-stage pump features a rigid design for reliable operation and easy maintenance. It is suitable for conveying neutral or corrosive liquids, with applications in coal chemical industry, pipeline transportation, and chemical fertilizer production.

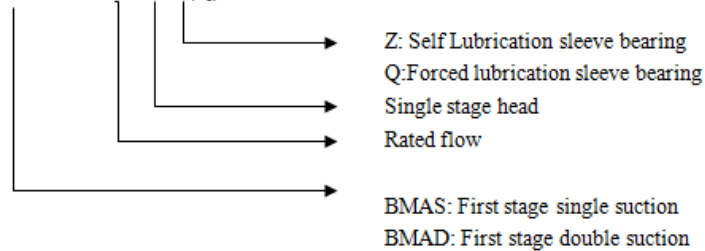


ADDITIONAL IMAGES



Overview

BMAS/D 195-95-Z(Q)



Decoding the pump model identification, including flow, head, and lubrication types.

API610 BB3 Axially Split Multi-Stage Pump

The BMA series is a horizontal, multi-stage, axially split pump designed between bearings for high-pressure petrochemical processes. Engineered strictly to API610 BB3 standards, it features a robust design with symmetrically arranged impellers to balance axial forces and minimize failure. Its axially split casing allows for easy maintenance as the pump can be disassembled without removing connected piping.

Performance Metrics

Operating Parameters

2500 m3/h
Max Capacity

1200 m
Max Head

15 MPa
Max Pressure

Temperature Range

-40°C to 200°C

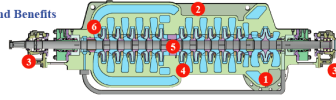
Technical Standards

Compliance Standards

API610, BB3, API 682, ISO 1940-1, API Q1 Registered

Design Features

Features and Benefits



- 1 Flange**
ANSI, ASME, DIN, EN standard available. API610 nozzle loads. On the lower half, easy maintenance.
- 2 Casing**
Axially split, double volute design.
- 3 Bearing Box**
Heavy duty bearing box, oil ring cooling, water coil cooling, fan cooling available.
- 4 Impeller**
First stage single or double suction impeller. Opposed impeller arrangement, axial force self balanced.
- 5 Shaft**
Rigid shaft. Impeller and shaft assembly dynamic balanced to ISO1940-1.
- 6 Wearing Ring**
Renewable casing and impeller wearing rings. Rings are secured by tack welds and screw.

Key features including axially split casing, opposed impeller arrangement, and heavy-duty bearing box options.

Impeller Configuration

- Opposed impeller arrangement for axial force self-balancing
- First stage available in single or double suction design
- Dynamically balanced to ISO1940-1
- Renewable casing and impeller wearing rings secured by tack welds

Casing & Maintenance

Axially split, double volute design on the lower half for easy maintenance without pipe removal.

Bearing & Lubrication

Bearing & Cooling Systems

- Self-lubrication sleeve bearings (Z-type)
- Forced lubrication sleeve bearings (Q-type)
- Optional roller bearings
- Cooling via fan, water coils, or oil ring

Monitoring Provisions

Bearing Temperature, Chamber Temperature, Vibration Measurement

Sealing & Connection

Flange Standards

ANSI • ASME • DIN • EN

Sealing System

API 682 standard seal chamber; supports cartridge single, double, or tandem mechanical seals.

Applications

Target Industries

- Coal Chemical Industry
- Pipeline Transportation
- Chemical Fertilizer Production
- Turbine Systems
- Water Treatment

Suitable Media

Neutral or corrosive, clean or particle-containing liquids.