

API610 BB4 Ring Section Multistage Centrifugal Pump

This API610 BB4 type pump is a multistage, ring section centrifugal pump ideal for boiler feed water and other high-pressure applications. Its design adheres to API610 standards, ensuring reliability and performance in demanding industrial environments.



ADDITIONAL IMAGES



Product Overview

High-Performance API610 BB4 Multistage Pump

The MS series is a horizontal multi-stage, ring section, radial split centrifugal pump designed strictly to API610 BB4 standards. Engineered for heavy-duty industrial applications, it features a between-bearings design that ensures stability and reliability under high-pressure conditions. This pump is ideal for critical processes including boiler feed water, condensate systems, and de-scaling in demanding industrial environments.

Performance Ratings

Performance Metrics

900 m³/h

Max Capacity

1200 m

Max Head

15 MPa

Max Pressure

210 °C

Max Temperature

Technical Standards

Compliance & Standards

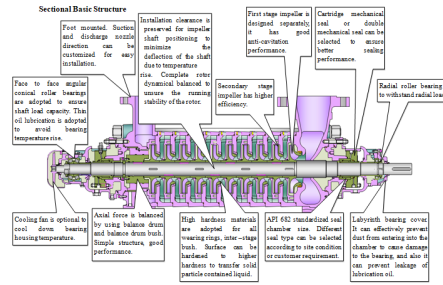
API610, BB4 Type, API682 Sealing, API Q1 Registered

Design Features

Hydraulic & Rotor Design

- Radial diffuser casing structure
- First-stage impeller optimized for anti-cavitation
- Secondary-stage impellers optimized for high efficiency
- Dynamically balanced rotor for running stability
- Axial force balanced via balancing drum and bush

Mechanical Components



Detailed sectional view showing the internal components, including the multistage impellers, balance drum, and bearing arrangements.

Bearings & Sealing

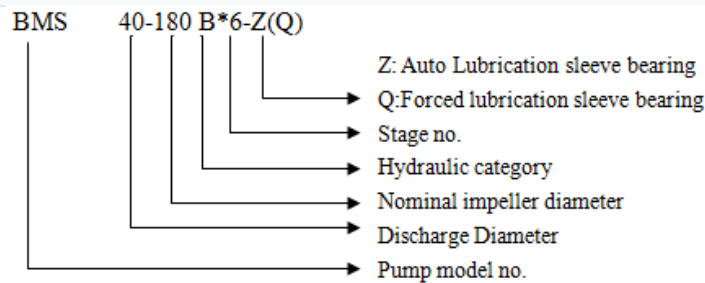
Component	Description
Sealing System	API 682 compliant; options for cartridge or double mechanical seals
Radial Bearings	Radial roller bearings to withstand radial loads
Thrust Bearings	Face-to-face angular conical roller bearings for shaft load capacity
Lubrication	Choice of self-lubrication (thin oil) or forced lubrication systems
Protection	Labyrinth bearing covers to prevent dust entry and oil leakage

Application Fields

Suitable Applications

Boiler Feed Water • Cooling/Heating Systems • Condensate Water • De-scaling • Petrochemical Processing • General Industrial

Model Identification



Guide to understanding the BMS series model numbering and configuration options.

Model Identification Guide

Code	Definition
BMS	Pump Model Series
40-180	Discharge Diameter
B	Nominal Impeller Diameter
6	Hydraulic Category
Z	Stage Number
Z (Suffix)	Auto Lubrication Sleeve Bearing
Q (Suffix)	Forced Lubrication Sleeve Bearing

Construction Materials

Material Specifications

- High hardness materials for wearing rings and inter-stage bushings
- Optional surface hardening for solid particle handling
- Center line or foot support options based on temperature requirements