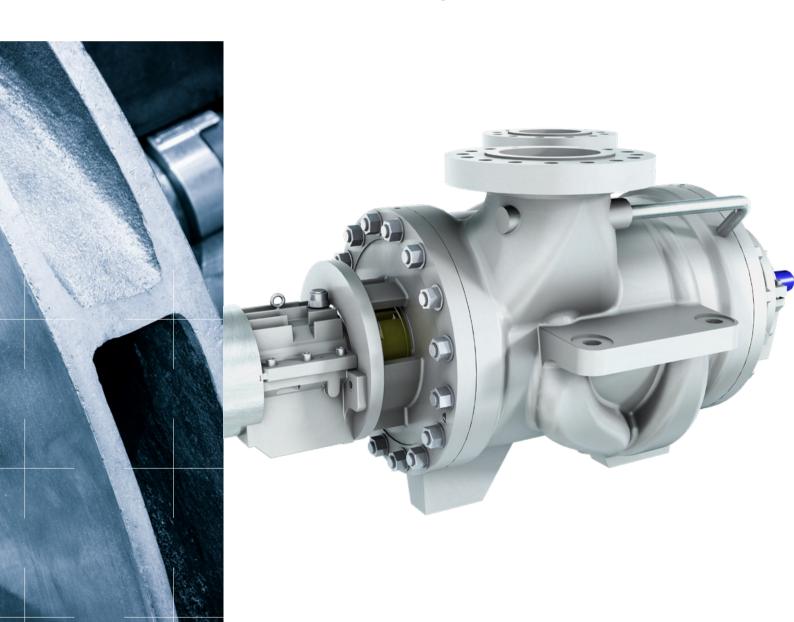


Flow Equipment

API 610 BBT/BBTD two stage radially split between bearings process pump



Main industries and applications

The BBT and BBTD pumps are designed for heavy duty, high pressure and high temperature applications. These applications range from light hydrocarbons at low temperatures, to corrosive fluids, coker furnace charge, vacuum bottoms and other services at high or low temperatures found in:

- Refineries
- Petrochemical plants
- Power plants
- Liquefied Natural Gas (LNG) facilities

For low Net Positive Suction Head (NPSH) applications, a BBT-D with double suction first stage impeller is utilized. First stage coke crushers are also available for coking applications.











Features and benefits

1 Heavy radially split casing

- Easily handles 2 times API nozzle loads
- Designed for high pressure and temperature

2 Stiff shaft design

- Increases mechanical seal life
- Lowers the deflection leading to less wear
- Allows reliable rotor dynamic performance
- Improves vibration

3 CFD hydraulics

- Opposed impellers balance axial loads
- Efficient and reliable hydraulic performance in wide range of services

4 Bearings

 Ball-ball, sleeve-ball, or sleeve-pivot shoe bearings for long life

5 Flanges

• 300# or 600# as required

6 Seals chambers

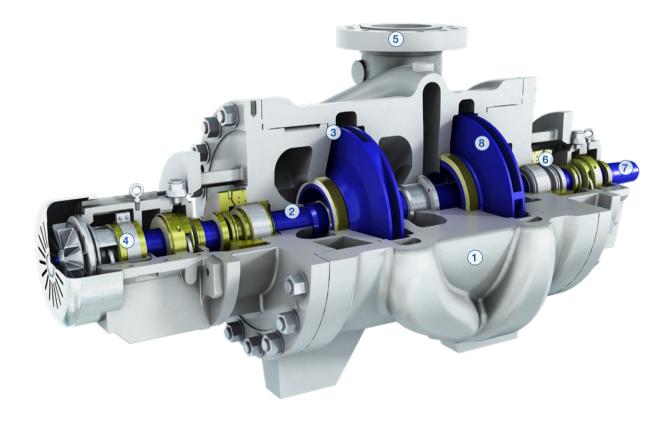
 Balance line causes both seal chambers to be near suction pressure for longer seal life

7 Tapered shaft

• Eases seal maintenance

8 Impellers

• Enclosed and dynamically balanced for improved efficiency and reliability



Specifications

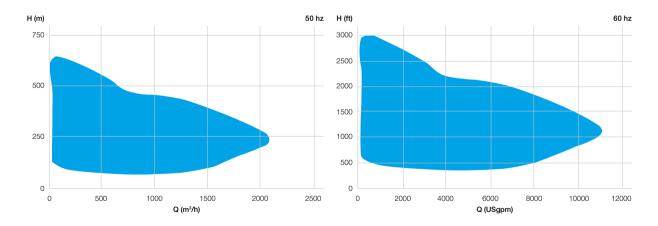
Material options

S-6, C-6, A-8, D-1, D-2 and 317L for ISO13709 (API 610)

Operating data

	50 Hz	60 Hz
Pump sizes	50 to 250 mm	2 to 10 in.
Capacities	up to 2'000 m³/h	up to 10'000 USgpm
Heads	up to 740 m	up to 2'400 ft.
Pressures	up to 100 bar	up to 1'480 psi
Temperatures	up to 425°C	up to 800°F

Performance range



We keep your processes flowing

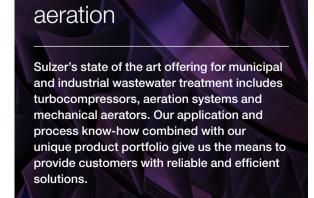
Wherever fluids are treated, pumped, or mixed, we deliver highly innovative and reliable solutions for the most demanding applications.

Our offer

The Flow Equipment division specializes in pumping solutions specifically engineered for the processes of our customers. We provide pumps, agitators, compressors, grinders, screens and filters developed through intensive research and development in fluid dynamics and advanced materials. We are a market leader in pumping solutions for water, oil and gas, power, chemicals and most industrial segments.

As one of the world's leading pump manufacturers, Sulzer provides a wide range of products for engineered, configured, and standard pumping solutions as well as essential auxiliary equipment. We are renowned for our state-of-the-art products, performance reliability and efficient solutions.





Compressors and



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