

Radially-split 1&2 stage pumps

BBS and CD radially-split, single stage pumps ISO 13709 / API 610 type BB2

Features and benefits

- Centerline support for reduced, thermally induced misalignment
- Double suction impeller for low Net Positive Suction Head Required (NPSH3)
- Casing designed for two times API 610 nozzle loads for freedom from piping distortions
- Optional inline side/side or side suction/top discharge configuration
- Engineered CD design for special applications

Key characteristics

Capacities	up to 7'000 m ³ /h / 30'000 USgpm
Heads	up to 450 m / 1'500 ft.
Pressures	up to 51 bar / 740 psi
Temperatures	up to 425°C / 800°F

Applications

- Medium pressure pipeline
- Refinery pump around
- Refinery bottoms
- Petrochemical quench water



BBT and BBTD radially-split, two stage pumps ISO 13709 / API 610 type BB2

Features and benefits

- Two stage configuration for higher heads
- Option of single or double suction first stage impeller to suit NPSHa
- First critical speed is well above operating speed range for smooth operation
- Casing designed for two times API 610 nozzle loads for freedom from piping distortions
- Special low flow high head hydraulics

Key characteristics

Capacities	up to 2'300 m ³ /h / 10'000 USgpm
Heads	up to 760 m / 2'500 ft.
Pressures	up to 100 bar / 1'450 psi
Temperatures	up to 425°C / 800°F

Applications

- Refinery vacuum bottoms
- Refinery coker heater charge
- Offshore WIP boosting



HPTd double suction, single stage pump

Features and benefits

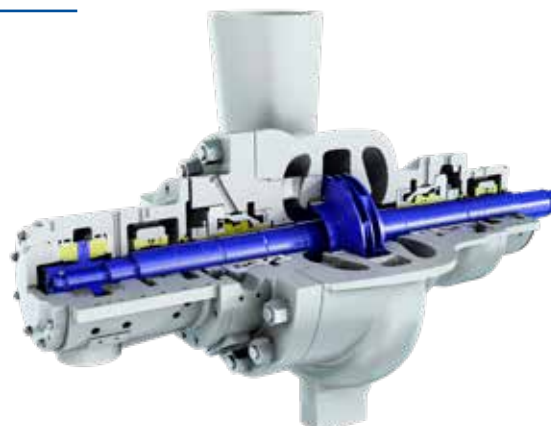
- Robust design to accept high piping loads
- Single cover design to reduce overhaul times
- Split bearing housings allow for bearing inspection without pump disassembly
- Single mechanical seal provides higher efficiency

Key characteristics

Capacities	up to 5'000 m ³ /h / 22'000 USgpm
Heads	up to 800 m / 2'625 ft.
Pressures	up to 150 bar / 2'175 psi
Temperatures	up to 220°C / 428°F

Applications

- Feedwater in nuclear power plants



HZB double suction volute pump

Features and benefits

- Centerline mounting to allow free thermal expansion and high nozzle loads
- Minimum bearing span to minimize shaft deflection
- Single cover casing design to reduce overhaul times
- Chrome steel casing with good corrosion resistance and excellent mechanical properties is standard
- Single mechanical seal provides higher efficiency

Key characteristics

Capacities	up to 5'500 m ³ /h / 29'000 USgpm
Heads	up to 340 m / 1'115 ft.
Pressures	up to 48 bar / 700 psi
Temperatures	up to 220°C / 428°F

Applications

- Feedwater booster
- Nuclear safety services
- District heating



HZB-HTF double suction volute pump

Features and benefits

- Centerline mounting to allow free thermal expansion and high nozzle loads
- Minimum bearing span to minimize shaft deflection
- Single cover casing design to reduce overhaul times
- Carbon steel or chrome steel casing with excellent mechanical properties
- Double mechanical seal provides safer operation

Key characteristics

Capacities	up to 4'400 m ³ /h / 17'600 USgpm
Heads	up to 400 m / 1'310 ft.
Pressures	up to 48 bar / 700 psi
Temperatures	up to 425°C / 800°F

Applications

- HTF oil pump for CSP

