

## **BBS API 610** Type BB2 double suction between bearing single stage process pump



# Main industries and applications

- Solar power main heat transport
- Refinery charge
- Fractionator bottoms
- Light hydrocarbons
- Amine circulation
- Light coker gas oil
- Carbonate solution
- Ultra low sulfur diesel product
- Heavy naphtha transfer
- Diesel transfer
- Treated seawater
- Boiler feed boosting





# Features and benefits

---



---

## 1 Heavy wall casing and mounting feet

- Designed for long life even with high temperature and heavy loads
- Minimum distortion even when subjected to two times API 610 nozzle loads

## 2 Classically stiff shaft design

- First critical speed well above operating speed
- Deflection at mechanical seal less than API 610 limit for longer seal life

## 3 Fan cooled 40° angular contact thrust bearings with ring oil lubrication

- Provides long bearing life even with 400°C (750°F) pumpage

## 4 Full cartridge mechanical seal

- Ease of seal replacement and assured accurate seal setting

## 5 Impeller

- CFD designed for enhanced efficiency and NPSH3

## 6 Tapered shaft

- Fast coupling removal for ease of seal maintenance

# Specifications

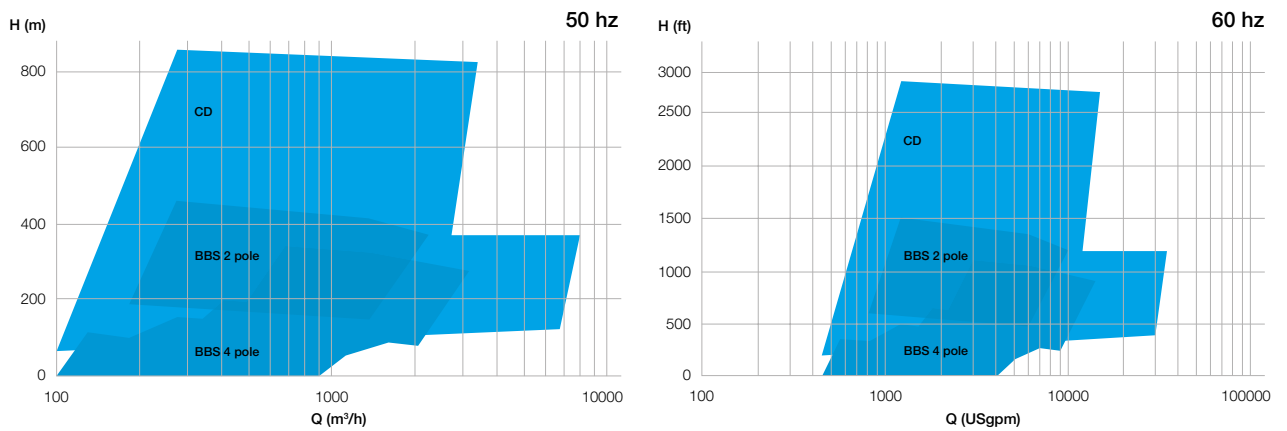
## Material options

API 610 material codes: S-6, S-8, C-6, A-8, D-1, D-2

## Operating data

|              | 50 Hz                         | 60 Hz              |
|--------------|-------------------------------|--------------------|
| Pump sizes   | 150 to 350 mm                 | 6 to 14 in.        |
| Capacities   | up to 5'000 m <sup>3</sup> /h | up to 22,000 USgpm |
| Heads        | up to 450 m                   | up to 1'500 ft.    |
| Pressures    | up to 50 bar                  | up to 740 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 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.



### Pumps

---

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.



### Agitators and dynamic mixers

---

Sulzer mixing and agitation technology offers a wide range of products for industrial applications. Side-mounted horizontal and top-mounted vertical agitators, dynamic chemical mixers, and tower and tank flow management products guarantee effective mixing and agitating processes.



### Compressors and aeration

---

Sulzer's state of the art offering for municipal and industrial wastewater treatment includes turbocompressors, aeration systems and mechanical aerators. Our application and process know-how combined with our unique product portfolio give us the means to provide customers with reliable and efficient solutions.



### Submersible mixers

---

Sulzer's energy efficient submersible mixers are suitable for a wide range of applications in industry and municipal treatment plants. They provide the right solution to match mixing tasks for agitating, blending, mixing, dissolving and suspension of solids in industry and municipal treatment plants.

**The Sulzer Flow division keeps your processes flowing. Wherever fluids are treated, pumped, or mixed, we deliver highly innovative and reliable solutions for the most demanding applications.**

---

The Flow 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.

---

E00584 en 11.2024, Copyright © Sulzer Ltd 2024

This brochure is a general presentation. It does not provide any warranty or guarantee of any kind. Please, contact us for a description of the warranties and guarantees offered with our products. Directions for use and safety will be given separately. All information herein is subject to change without notice.

