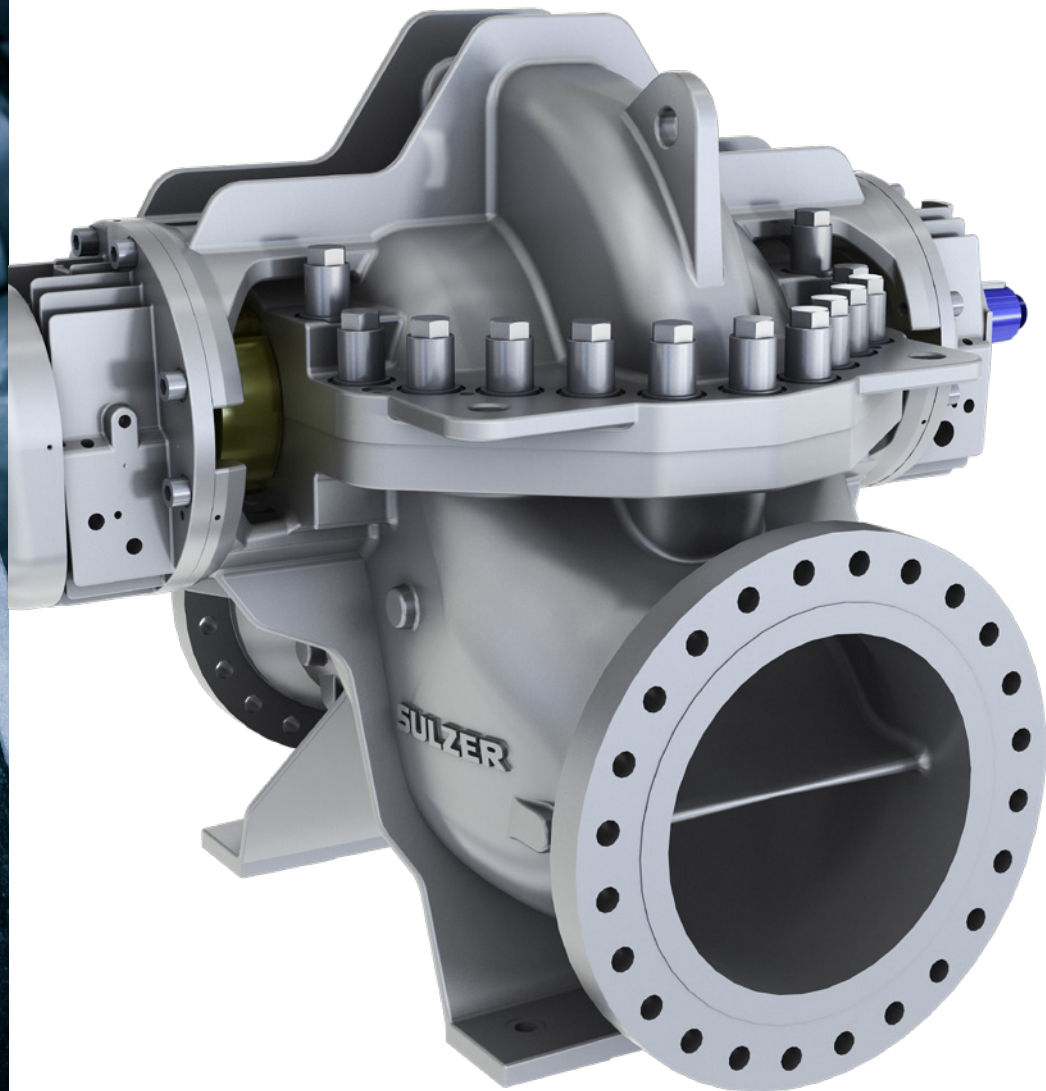


SULZER

Flow Equipment

HSA API 610 type BB1 axially split single stage double suction pump



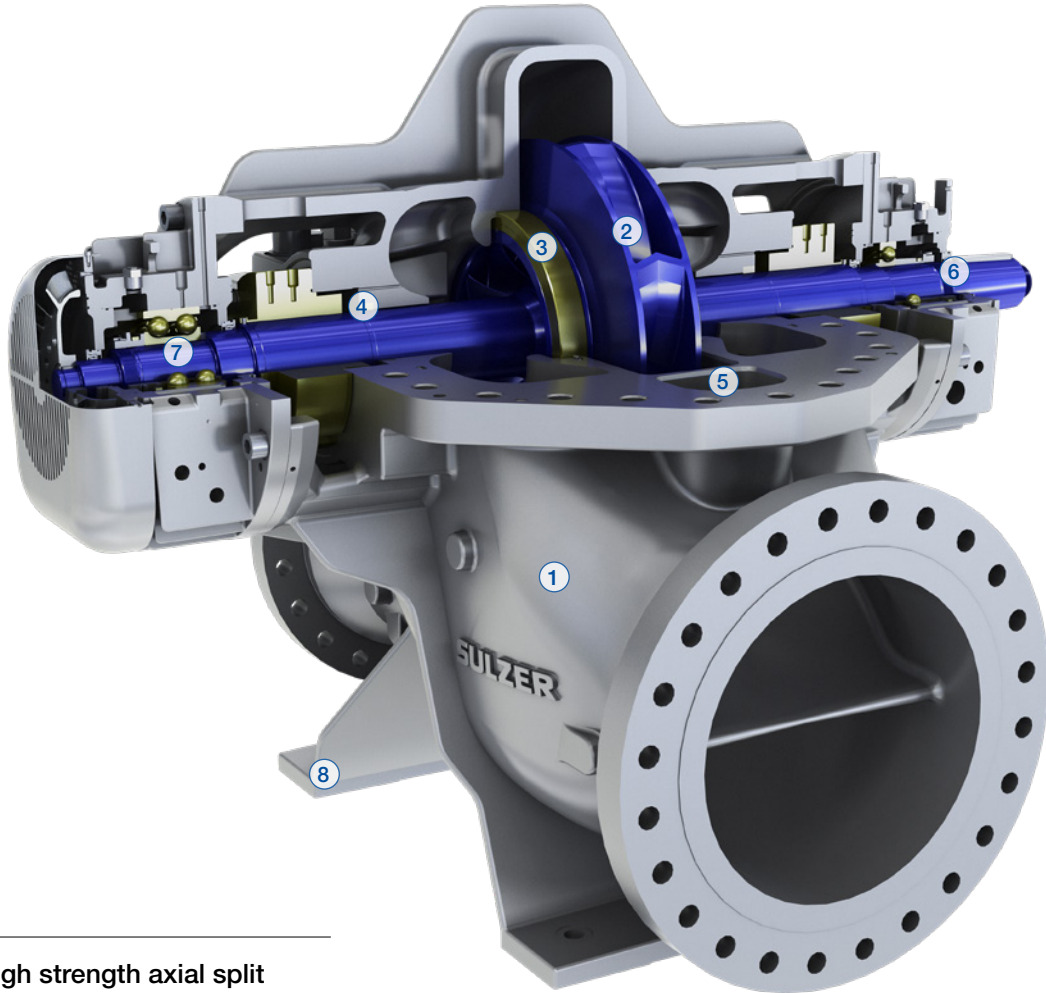
Main industries and applications

The HSA API 610 Type BB1 product line is designed for use in the oil and gas industry. Applications include tank farm transfer, pipeline, pressure boosting, cooling water, and closed cycle cooling.

The Sulzer HSA pump range bring API 610 nozzle loads, seal chambers, bearing systems and performance features to what were normally considered general service pumps.



Features and benefits



1 High strength axial split casing

- 150# and 300# flange options
- Two times API 610 table 5 nozzle load capability

2 Double suction impeller

- Balanced axial thrust
- Optimum geometry provides high efficiency, low NPSH, and quiet running over a wide operating range
- Balanced to ISO 1940-1 G2.5

3 Wear rings

- Replaceable case rings as standard
- Replaceable impeller rings or integral wear surface depending on material
- Simple, low cost efficiency renewal

4 API 610 Table 7 seal chambers

- API 682 single or dual cartridge type mechanical seals
- API 682 seal support systems

5 Double volute casing on larger sizes

- Minimizes shaft deflection
- Longer mechanical seal life

6 Large shaft diameter with minimum bearing span

- More power capacity
- Improved mechanical seal life

7 High capacity bearing assembly

- Ball-ball, sleeve-ball and sleeve-pivot shoe bearings available
- Fan or water cooled options

8 Heavy duty baseplates

- Grouted or ungrouted design
- Vertical arrangement (HSAv) for limited deck space applications

Specifications

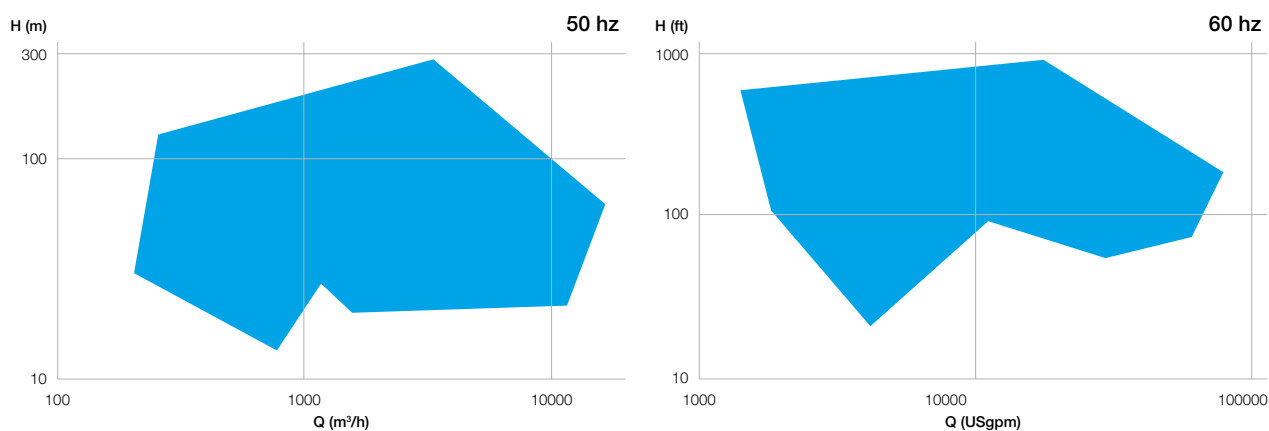
Material options

API 610 material codes: S-4, S-5, S-6, S-8, A-8, D-1, D-2

Operating data

	50 Hz	60 Hz
Pump sizes	6" to 32" nozzles	6" to 32" nozzles
Capacities	up to 18'000 m ³ /h	up to 80'000 USgpm
Heads	up to 260 m	up to 850 ft.
Pressures	up to 34 bar	up to 490 psi
Temperatures	up to 140°C	up to 280°F
Speeds	up to 3'600 rpm	up to 3'600 rpm

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.



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.



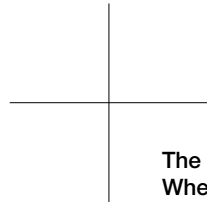
Compressors and aeration

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 Equipment 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 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.

E10542 en 9.2022, Copyright © Sulzer Ltd 2022

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.

