

CP horizontal radially split multistage barrel pump



Main industries and applications

The CP is a BB5 multistage barrel pump suitable for high pressure, high speed and high temperature services requiring reliability and long service life.

It is mainly used in the following applications:

- Water injection
- Offshore crude oil shipping
- High pressure pipeline
- Boiler feed
- High pressure safety injection
- Refinery charge
- Ethylene shipping



Features and benefits

1 Opposed impellers

- Balance axial loads with no lube system needed on smaller pumps

2 Axially split inner case

- Rotor balance is not disturbed when installing pump

3 Dual volute inner case

- Balances radial loads for longer life

4 Twistlock barrel construction

- Reduces maintenance time on lower temperature services

5 Cartridge design with Superbolts™ on larger pumps

- Speeds repair with standard tools

6 Bearings

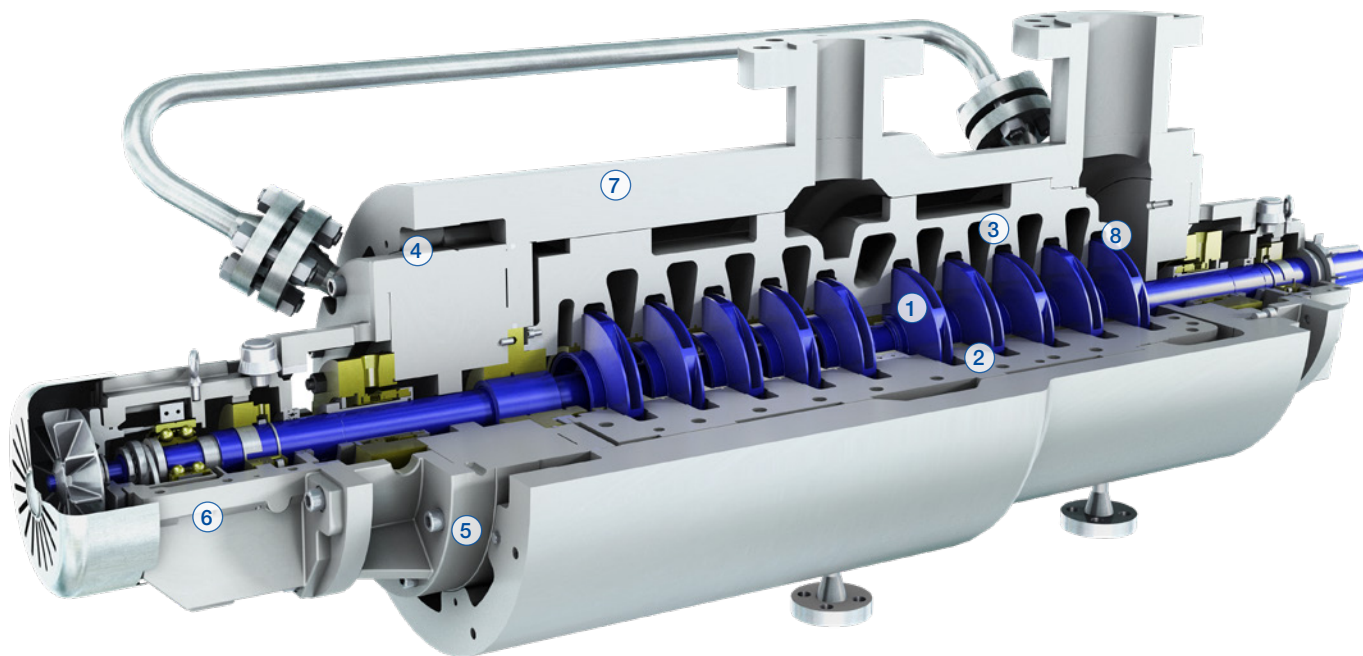
- Bearing options to suit specific applications: ball/ball, sleeve/ball, or sleeve/pivot shoe

7 Barrel

- Forged pressure boundary components providing secure containment

8 Optional double suction first stage

- Reduces Net Positive Suction Head Required (NPSHR)



Specifications

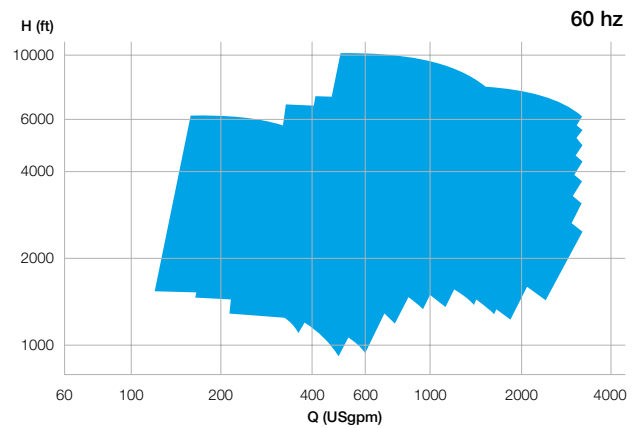
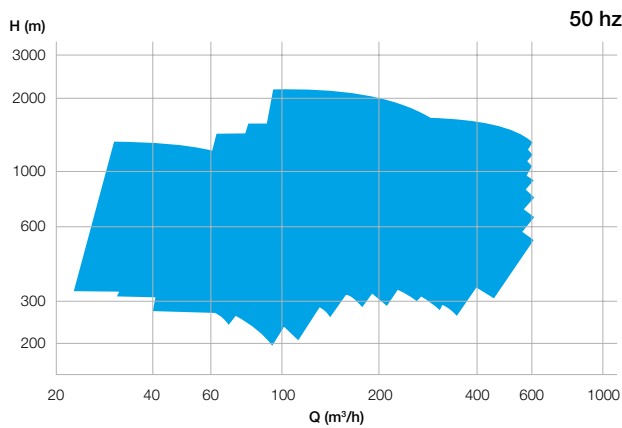
Material options

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

Operating data

	50 Hz	60 Hz
Bowl sizes	80 to 250 mm	3 to 10 in.
Capacities	up to 1'000 m ³ /h	up to 4'400 USgpm
Heads	up to 7'000 m	up to 23'000 ft.
Pressures	up to 425 bar	up to 6'250 psi
Temperatures	-50 to 425°C	46 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.

E00609 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.

