

# SULZER

Pumps and pumping systems

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## HPcp barrel casing pump



# Main applications, features and benefits

The HPcp are ISO 13709 (API 610) type BB5 barrel pumps used for:

- Seawater and produced water injection
- Offshore crude shipping
- Remote pipeline services

## 1 Up to 1'000 bar MAWP

- Enhanced ultra deep subsea oil production

## 2 Multiple patents on 1'000 bar design

- Allows use of duplex stainless steel instead of overlaid carbon steel for very high pressure

## 3 Hydraulic fit thrust collar and coupling

- Ensures concentricity and perpendicularity for high speed

## 4 Precision impellers and diffusers

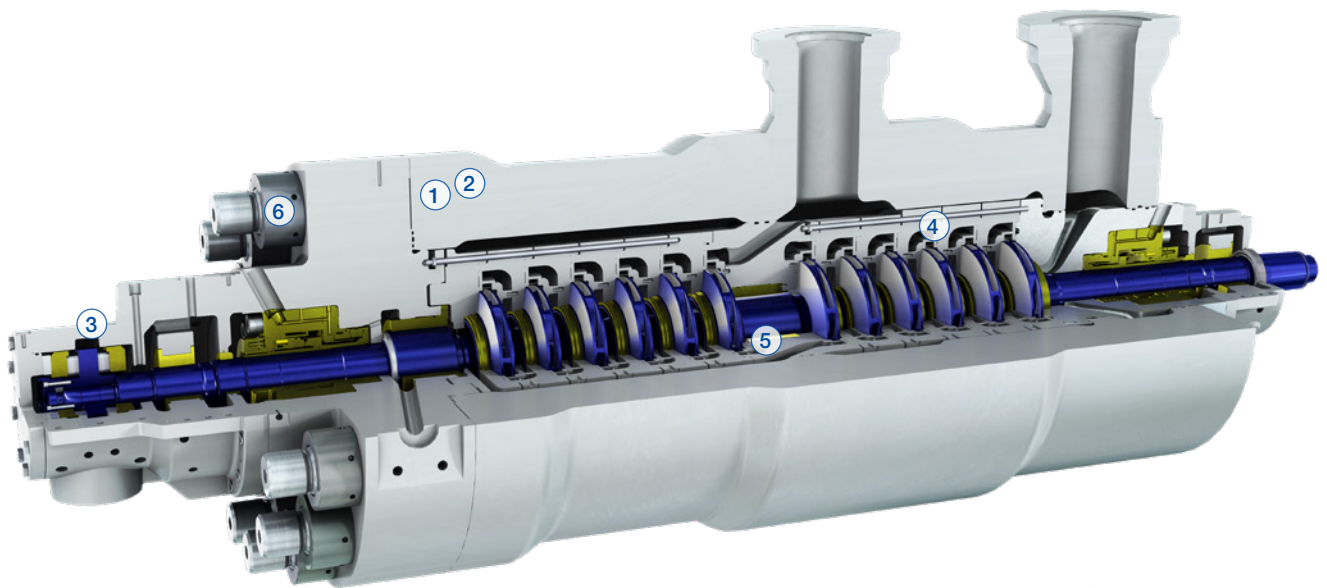
- Hundreds of hydraulics for long life and low vibration at high energy levels

## 5 Back-to-back rotor construction over 8 stages

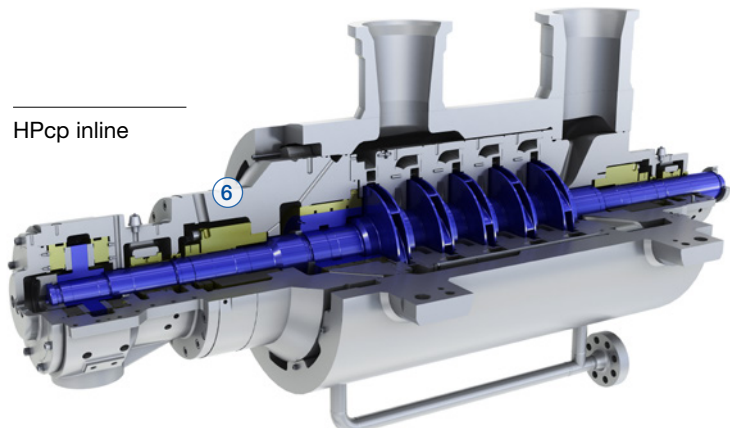
- Provides enhanced rotor support and balanced axial loads even in worn condition

## 6 Patented twist lock, bolted or SuperNuts™ end cover

- Simple and effective closures even at extreme pressures



HPcp back-to-back



HPcp inline

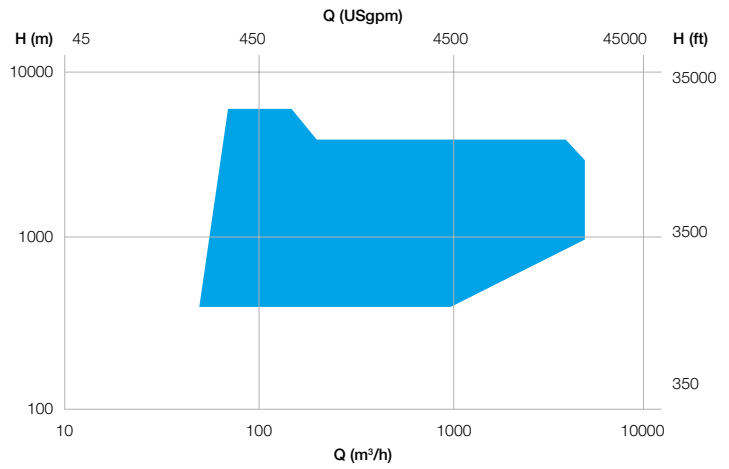
# Specifications

Operating data	50 Hz	60 Hz
Pump sizes	up to 550 mm	up to 22 in.
Capacities	up to 4'500 m <sup>3</sup> /h	up to 20'000 USgpm
Heads	up to 8'000 m	up to 26'300 ft.
Pressures	up to 1'100 bar	up to 16'000 psi
Temperatures	up to 200°C	up to 400°F
Speeds	up to 8'850 rpm	up to 8'850 rpm

## Materials

API 610: S-6, D-1, D-2

## Performance range



**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.**

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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.

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