

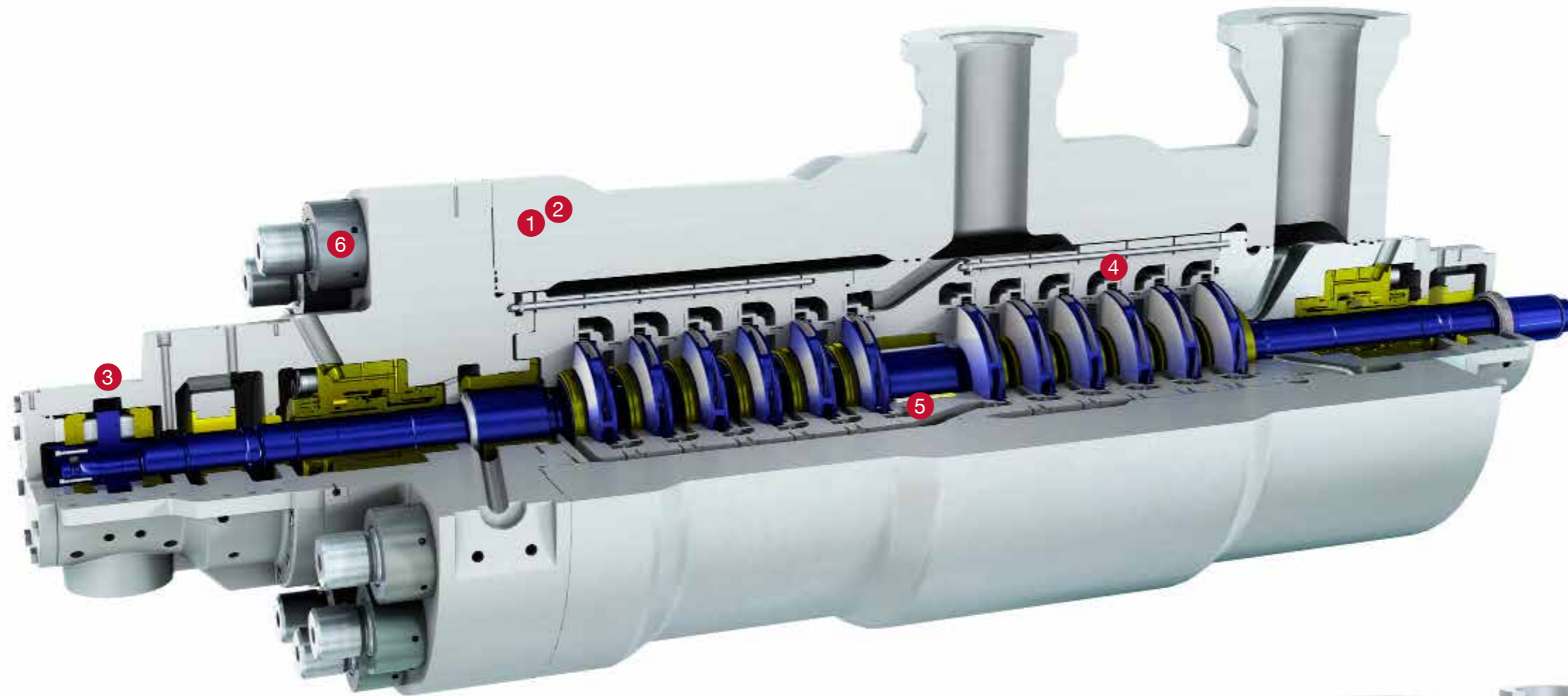
## **HPcp Barrel Casing Pump**



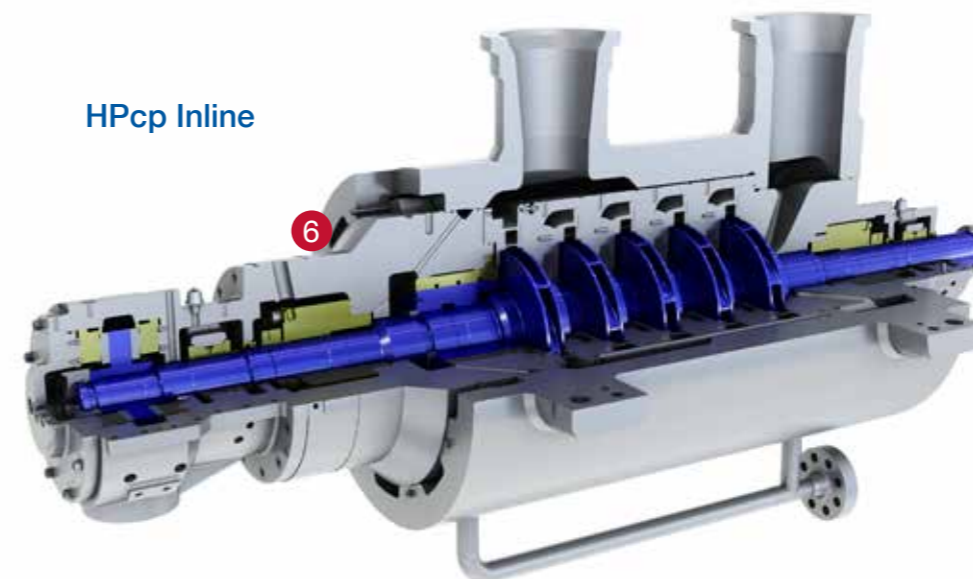
## Main Applications

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

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



HPcp Back-to-Back



HPcp Inline

## Features and Benefits

- 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 SS 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 Barrel Casing Pump



Oil and gas



Hydrocarbon processing



Power generation



Pulp and paper



General industry



Chemical processing

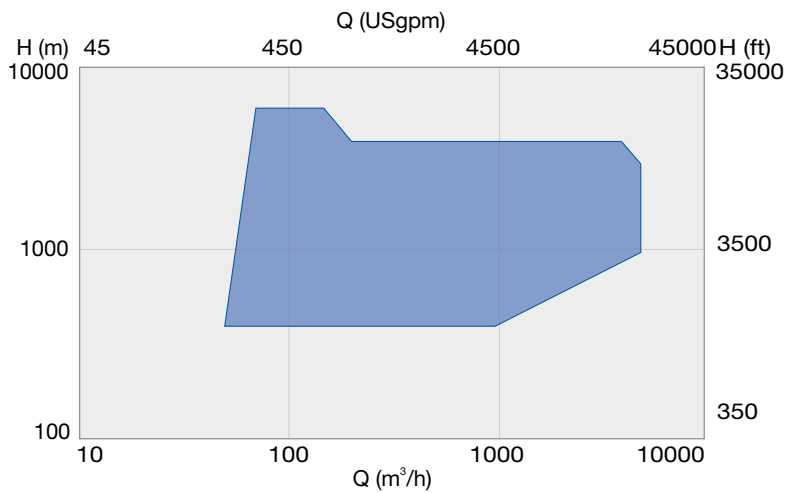


Water and wastewater

## Operating data

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

## Performance ranges



## Materials

Material classes	Material
API 610	S-6, D-1, D-2

# We Do What We Say

## Customer partnership

- We are a **reliable partner**
- We provide a **high level of service**
- We **make our customers more competitive**



## Committed people

- We drive **accountability**
- We are **open and transparent**
- We are **team players**



## Operational excellence

- We **focus on results**
- We take **initiative** and work within **established processes**
- We **act safely**



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● Sulzer headquarters,  
Winterthur, Switzerland



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