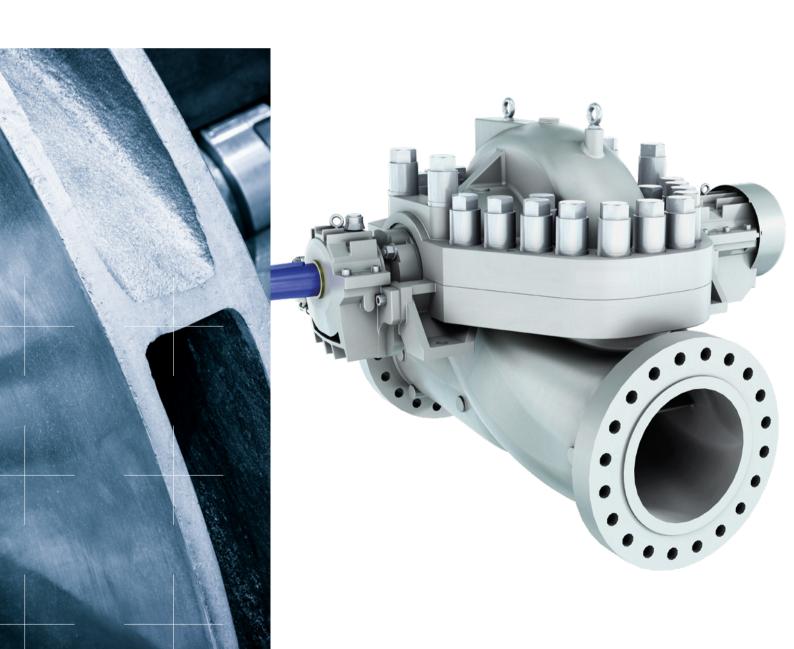
SULZER

Flow Equipment

HSB horizontal axially split single stage double suction pump



Main industries and applications

Thousands of Sulzer HSB pumps are found on crude oil pipelines throughout the world. Some of the larger crude lines may have over 200 HSBs with a 3 to 4.4 MW (4'000 to 6'000 hp) motor on each pump. Other HSBs are pumping condensate in power plants, potable water over rough terrain, and even light hydrocarbons. HSBs are driven

by electric motors, VFD-motors, motor-fluid couplings, gas turbines, diesel engines, and Sulzer HST power recovery turbines. HSB pumps are commonly used for fluids with viscosities from 0.1 cp to over 600 cp. In some cases, cold crude oil startup viscosities can exceed 1'000 cp.



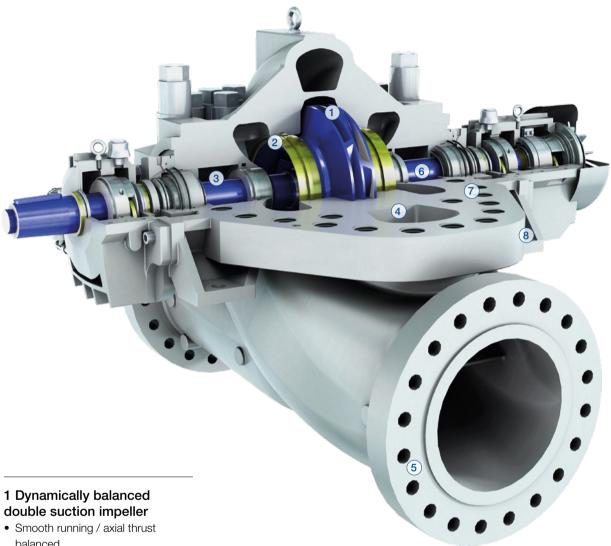








Features and benefits



- balanced
- Low NPSH

2 Replaceable case and impeller rings

• Simple, low cost efficiency renewal

3 Integral seal chamber

- Operating at suction pressure; designed for mechanical seals of all configurations
- Minimizes emissions and leakage

4 Double volute casing

- Minimizes shaft deflection
- Longer mechanical seal life

5 Horizontal suction and discharge nozzles

- Cast integral with bottom half of the
- Two times API 610 nozzle load capacity

6 Large shaft diameter with minimum bearing span

- More power capacity
- Improved mechanical seal life

7 Axial split casing

• Ease of disassembly for inspection and maintenance

8 Near centerline or nozzle mounting

- Near centerline mounted for alignment on warmer services
- Nozzle mounted for ambient services with heavy nozzle loads

Specifications

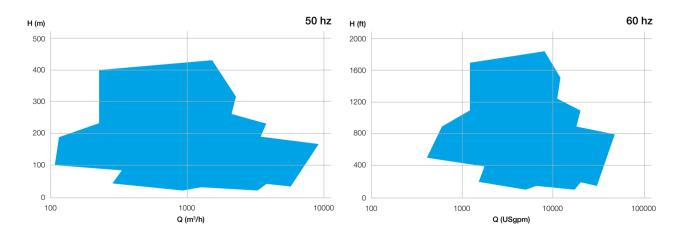
Material options

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

Operating data

	50 Hz	60 Hz
Pump sizes	up to 30x30x28.5	up to 30x30x28.5
Capacities	up to 10'000 m ³ /h	up to 45'000 USgpm
Heads	up to 400 m	up to 1'800 ft.
Pressures	up to 150 bar	up to 2'200 psi
Temperatures	up to 200°C	up to 400°F
Speeds	up to 5'000 rpm	up to 5'000 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.







Compressors and



sulzer.com

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