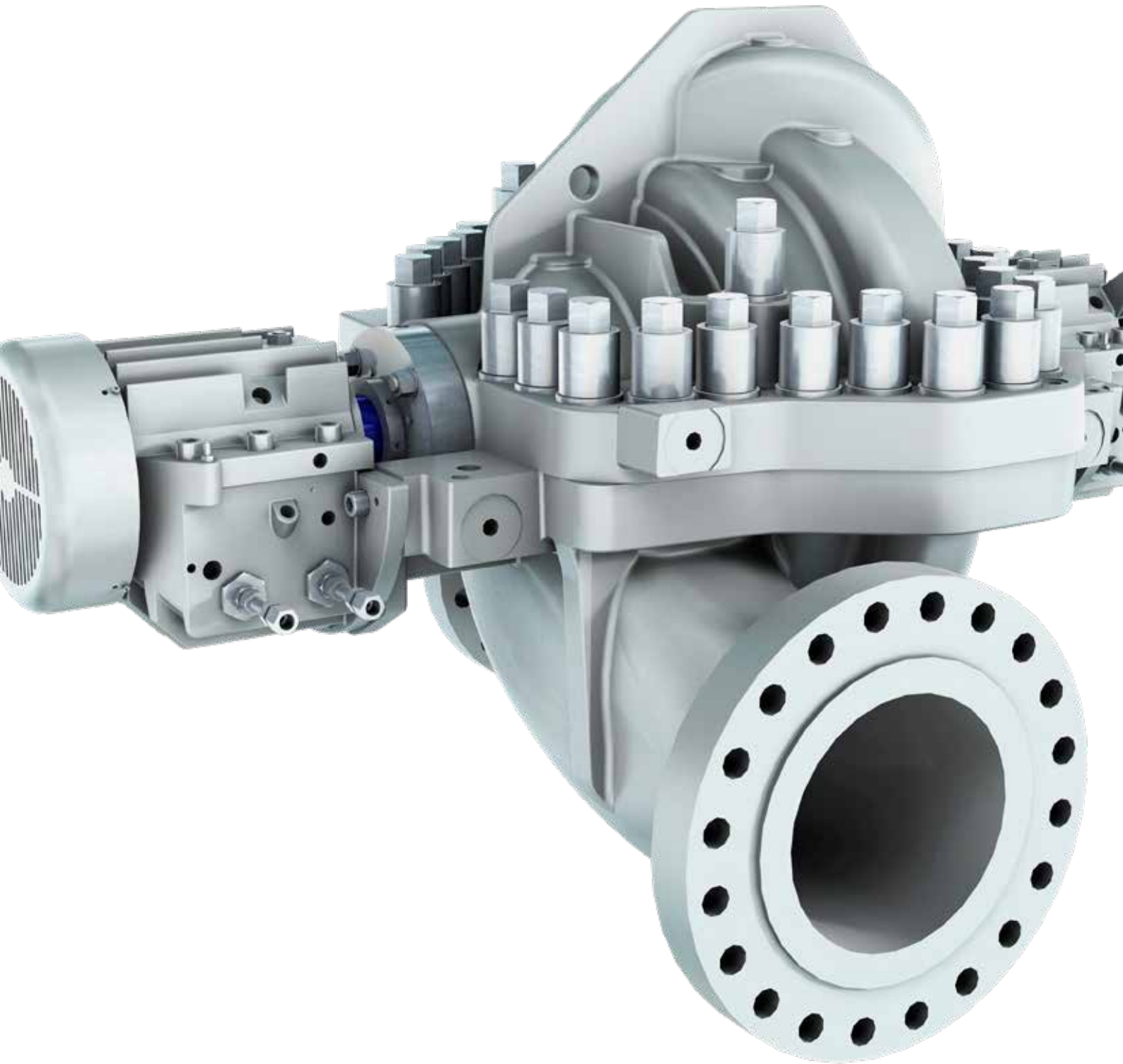


MSD-RO axially split
multistage pump



Main industries and applications

The MSD-RO is the result of Sulzer's experience in supplying high pressure pumps for large Seawater Reverse Osmosis (SWRO) plants worldwide, with a total of 2.5 million m³/d installed capacity.

The MSD-RO meets the needs of a high pressure pump for the desalination market for large SWRO pumps, covering SWRO train capacities from 20'000 to 30'000 m³/d.

Main applications:

- High pressure membrane feed pump in SWRO applications
- Water transport



Water and
wastewater



Features and benefits

1 Axial split casing design

- Maintenance easiness: disassembling top casing without removing suction and discharge flanges is possible

2 Two stages, single suction impeller

- Compact design and top of its class efficiency

3 Special opposed, dynamically balanced impellers design

- Ideal axial thrust balance, increasing the overall pump efficiency by avoiding a balancing line that causes flow recirculation

4 Specific cross-over design

- Reduces internal pressure losses maximizing efficiency and allows shorter bearing span

5 Double volute construction

- Radial thrust balance

6 Reduced wear parts clearances by using PEEK

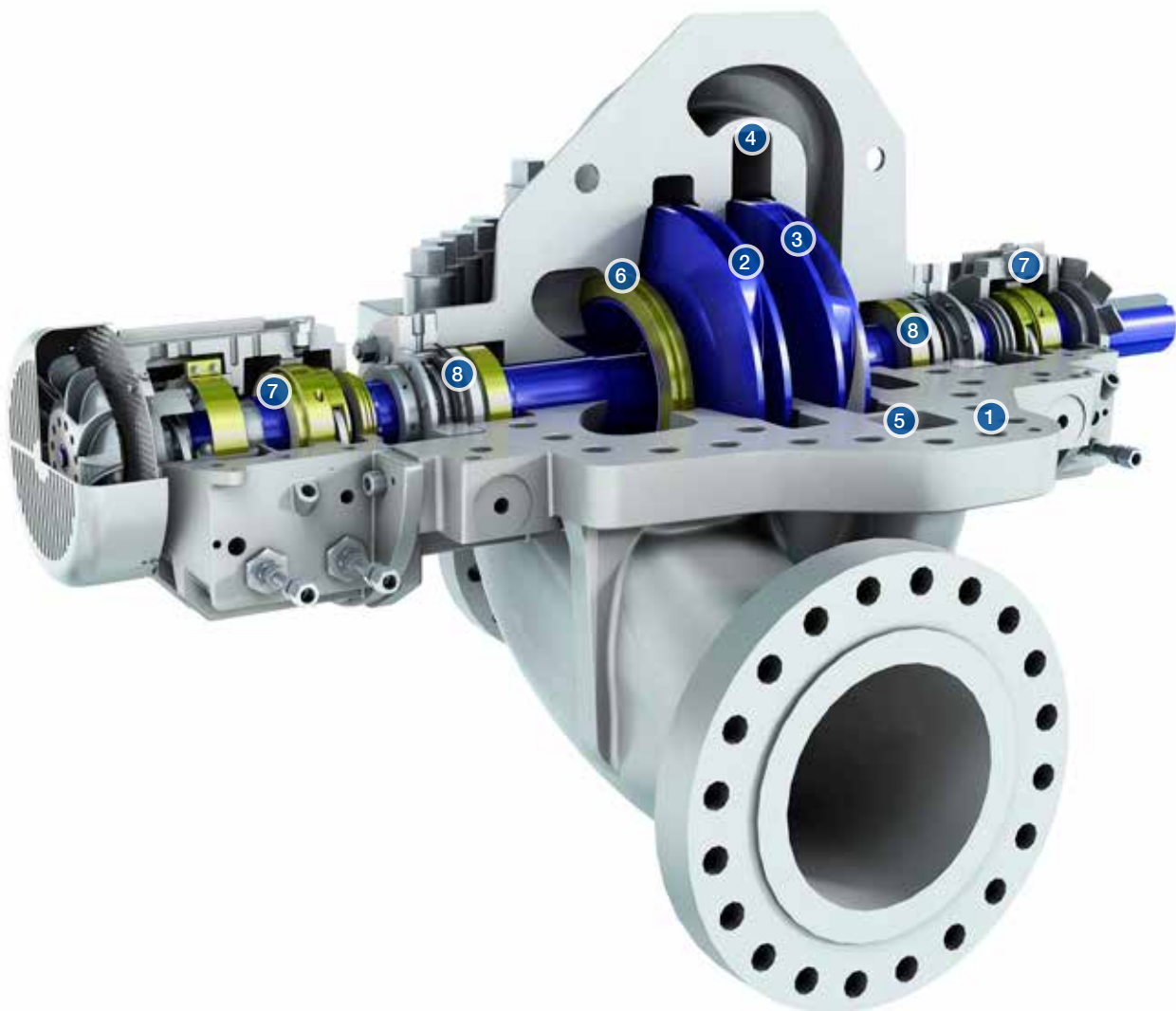
- To increase pump efficiency

7 Sleeve journal and duplex angular contact thrust bearing as standard

- Sleeve journal and pivot shoe thrust bearing with force oil lubrication system is available when required

8 Single, balanced, cartridge mechanical seal

- Option for API 682 mechanical seal is available



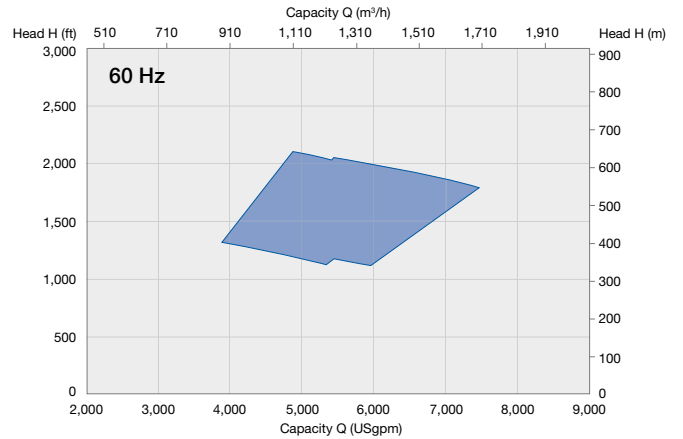
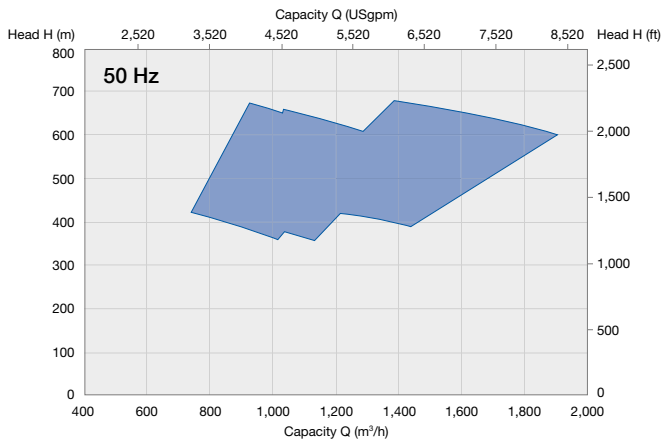
Materials

Pump part	Material
Casing	Superduplex
Impeller	Superduplex
Wear rings	PEEK
Bearing housing	Carbon steel

Operating data

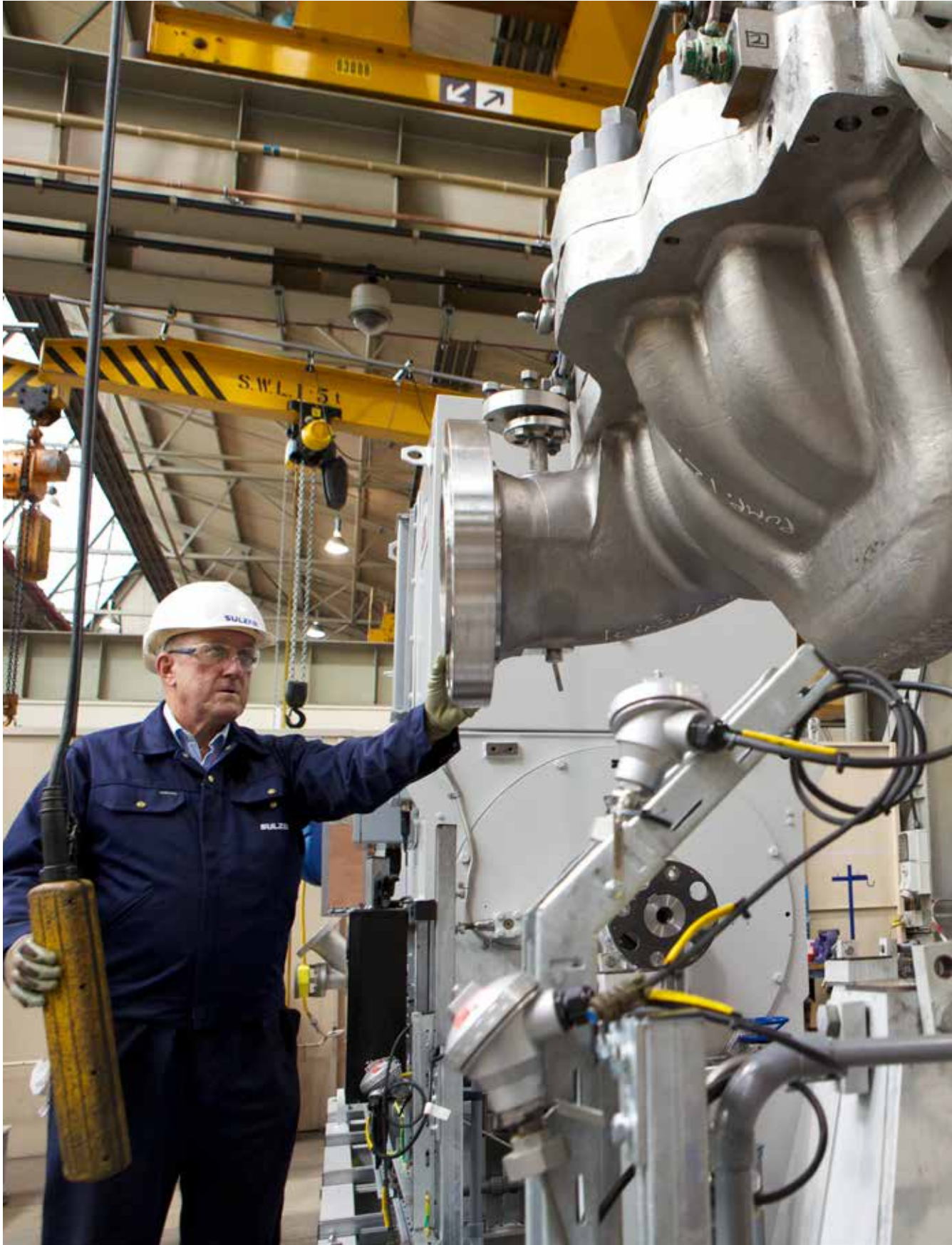
	50 Hz	60 Hz
Pump sizes	200 to 300 mm	8 to 12 in.
Capacities	1'000 to 1'600 m ³ /h	4'400 to 7'000 USgpm
Heads	up to 650 m	up to 2'150 ft.
Pressures	up to 90 bar	up to 1'305 psi
Temperatures	up to 60°C	up to 140°F

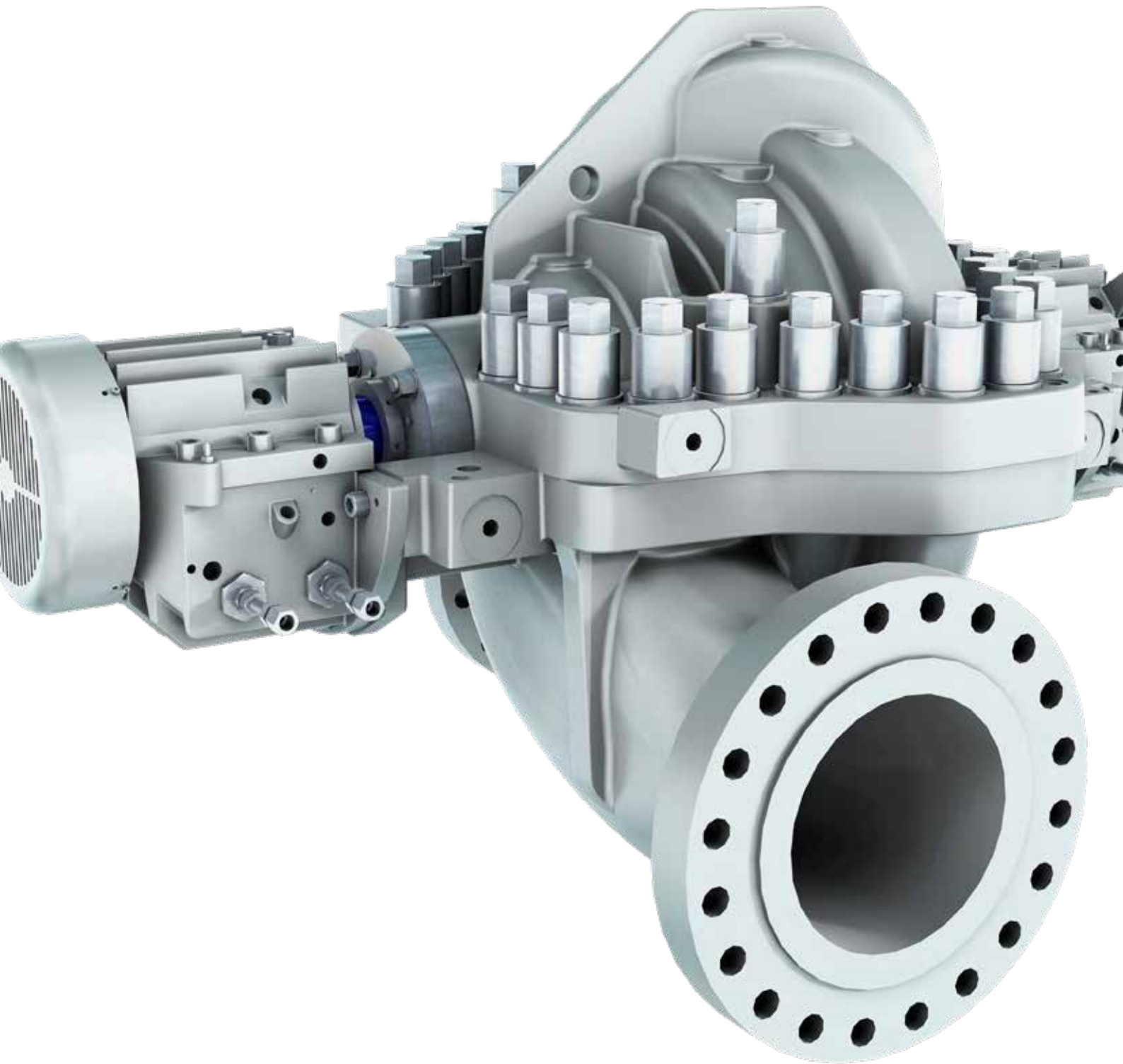
Performance ranges



A global specialist at your doorstep

Sulzer serves clients worldwide through a network of over 180 production and service sites and has a strong footprint in emerging markets.





www.sulzer.com

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