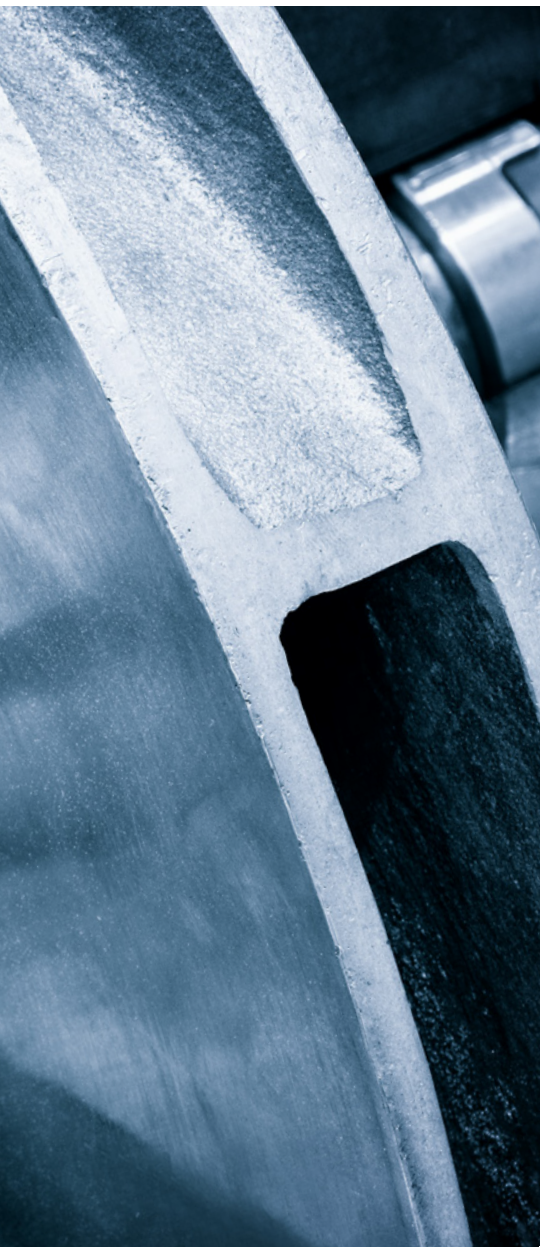
SULZER

Pumps and pumping systems

OHV and OHVL

vertical inline pumps

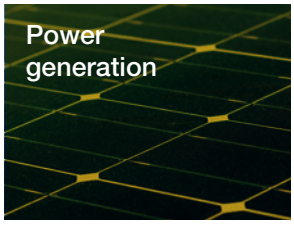


Main industries and applications

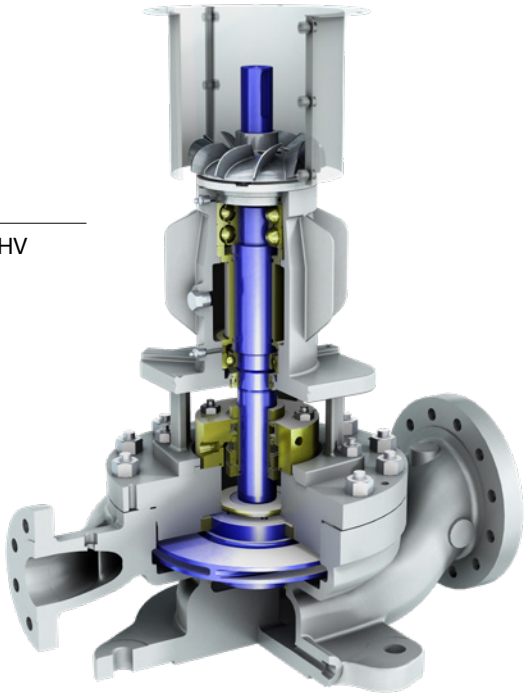
OHV and OHVL inline pumps are designed for pumping applications covering a myriad of produced or process fluids such as produced water booster, crude oil booster, propane transfer, reflux, gas oil, etc.

They are often installed in:

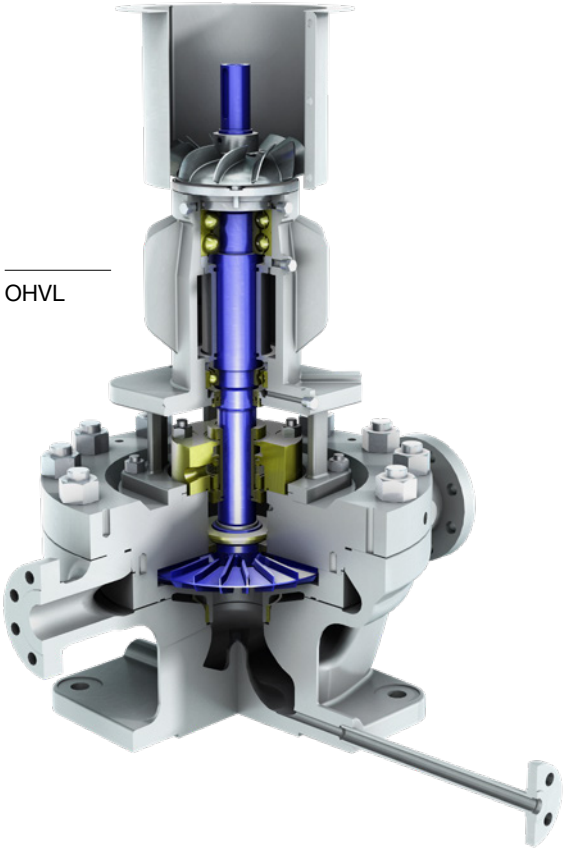
- Refineries
- Petrochemical plants
- Gas processing plants
- Bitumen processing plants
- Offshore oil production platforms or Floating Production, Storage and Offloading units (FPSO)



OHV



OHVL



Features and benefits

1 Inline design
- Minimal footprint saves space
- Can float with piping – decreases distortion caused by thermal expansion and contraction
- Able to be bolted to module frame for reduced installation cost
- Inline nozzles absorb more loads easily – 2 times ISO 13709 (API 610)

2 Heavy wall, pressure casing and 300# R.F. flanges
- Conservative design for long life

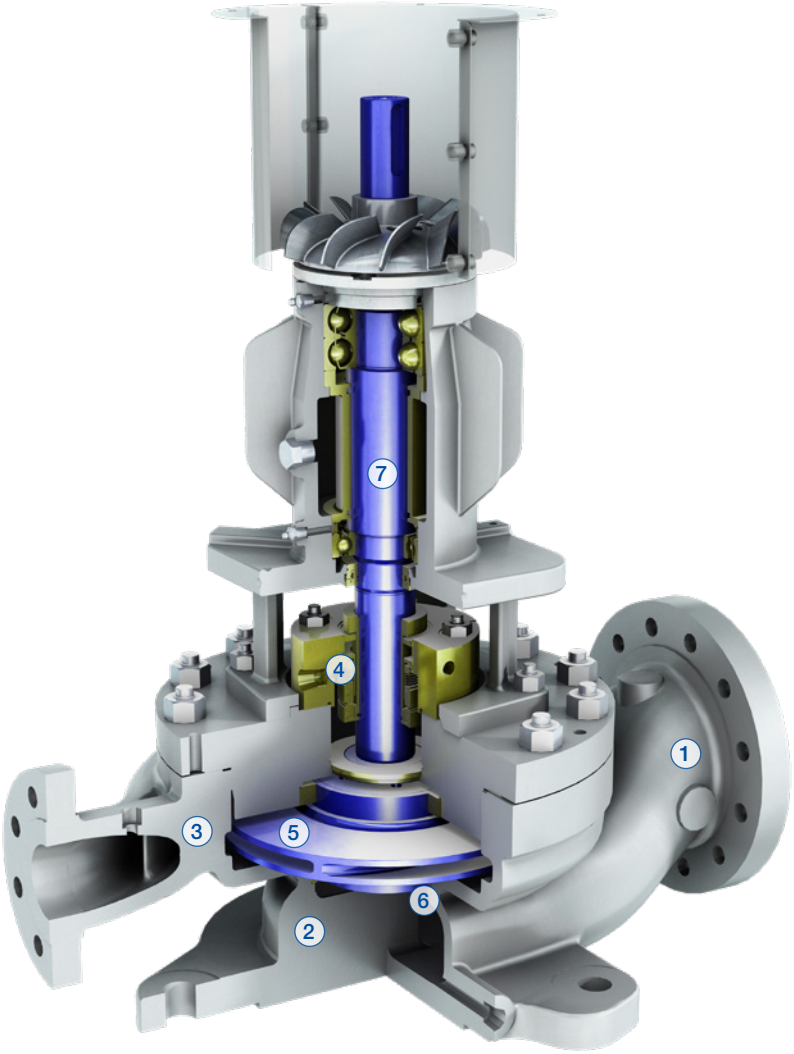
3 Dual volute in larger size
- Decreases radial loads for longer bearing life
- Reduces shaft deflection for longer seal and wear ring life

4 API 682 mechanical seals and API 610 seal chamber
- Seals interchangeable among OHH, OHHL, OHV and OHVL
- Large seal chamber bore improves face cooling for longer life
- Seal pots and coolers mounted on separate stands to improve maintenance access to seals and back pullout assembly

5 Impeller
- OHV – interchangeable with OHH; enclosed for improved efficiency
- OHVL – interchangeable with OHHL; semi-open for capacity control

6 Wear parts
- Minimum of 12% chrome wear rings for improved life
- Sulzer exclusive material combinations for improved resistance to galling
- Non-metallic wear rings (carbon, PEEK, etc.) and reduced clearances offered on clean fluids for improved efficiency
- OHVL – large clearance between impeller and diffuser for thermal tolerance

7 Heavy duty shaft and bearings
- Large diameter shaft for reduced deflection
- Improved seal and wear ring life
- Variety of materials for improved corrosion resistance and high torque capacity
- OHV uses OHH shaft
- OHVL uses OHHL shaft
- Bearings are interchangeable among all four models



Specifications

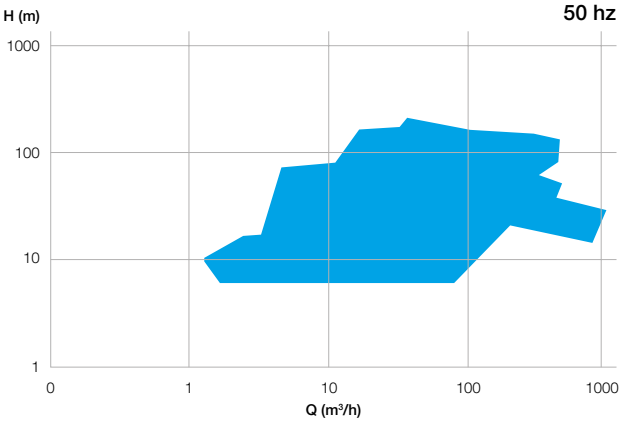
Material options

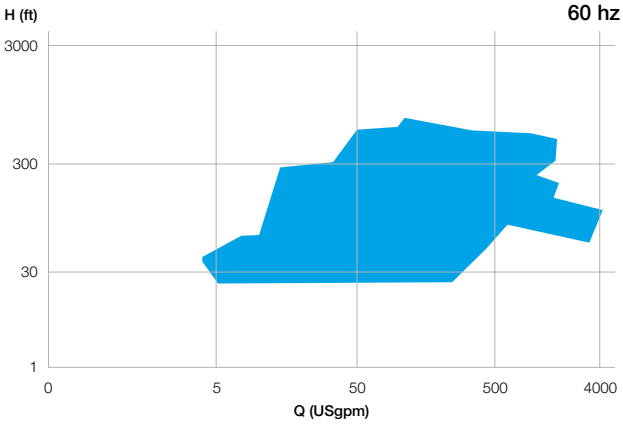
API 610 material codes: S-5, S-6, S-8, C-6, A-8, D-1, D-2

Operating data

	50 Hz	60 Hz
Pump sizes	25 to 250 mm	1 to 10 in.
Capacities	up to 1’450 m^3/h	up to 6’800 USgpm
Heads	up to 350 m	up to 1’150 ft.
Pressures	up to 51 bar	up to 740 psi
Temperatures	-160 to +340°C	-256 to +650°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.

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