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 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

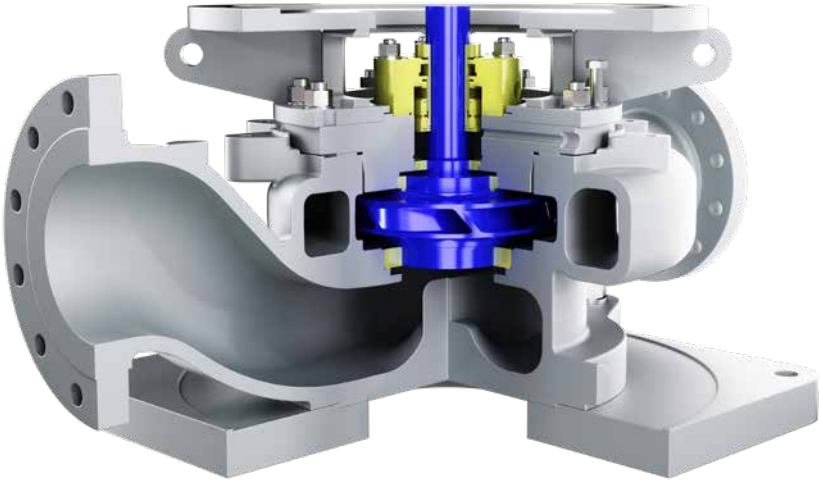
5 Impeller
- OHV – interchangeable with OHH; enclosed for improved efficiency
- OHVL – interchangeable with OHHL; semi-open for capacity control

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

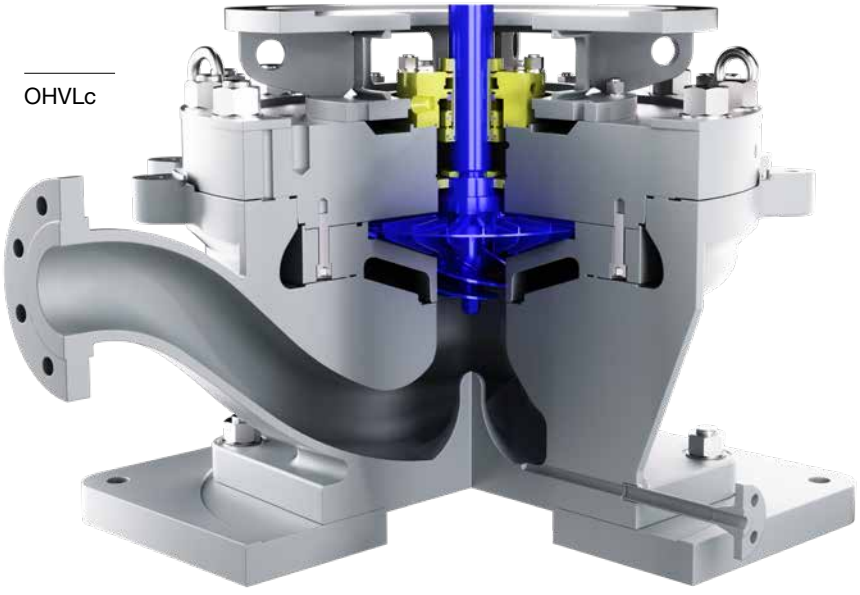
7 Heavy duty shaft and bearings
- Large diameter shaft limits shaft deflection to less than 0.03 mm in the stuffing box area for long seal and wear ring life
- Variety of materials for improved corrosion resistance and high torque capacity
- Bearings are interchangeable among all four models
- Grease or oil mist as standard
- Oil lubricated option with constant level oilers available on all sizes

Design variants

- Vertical-in-line close coupled variant of OHV/OHVL
- API 610 compliance for OH5 requirements
- Compact, lighter than OH3 pump for environments where space is limited
- Impeller mounted directly on motor shaft with special run-out tolerances on flange and shaft for compliance to API 610 requirements
- API 610 seal chamber dimensions compliance for API 682 mechanical cartridge seals
- Same pump hydraulic components as OHV/OHVL



OHVc



OHVLc

Specifications

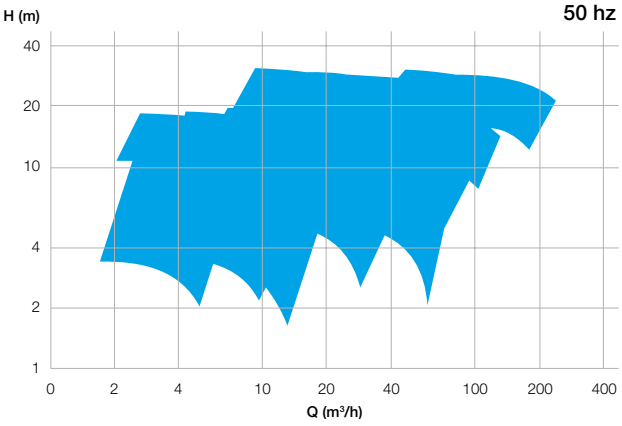
Material options

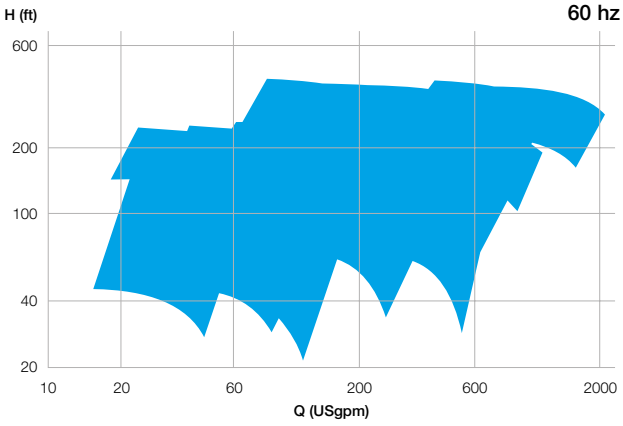
API 610 material codes: S-5, S-6, S-8, C-6, A-8, D-1, D-2

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





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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.

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.