

SULZER

Pumps and pumping systems

VMS vertical multistage pumps



Main industries and applications

The highly efficient VMS vertical multistage pumps are used for multiple applications in the water market. The VMS offers a wide range of options and designs due to the combination of durable and innovative construction methods. The stainless steel base guarantees the conservation of water quality and together with the modular construction that makes it possible to modify the pump for your specific application, we can offer you a reliable and cost-effective solution.

The pumps are suitable for many applications, including:

- Municipal water supply and distribution
- Domestic water supply
- Cooling water transport
- Hot water applications
- Fire fighting
- Food, chemical and process industry
- Irrigation



Features and benefits

Highest possible efficiency gives energy savings

- Unique hydraulic design: high pressure per impeller at high efficiency
- Efficiency up to 80%
- Standard high efficiency motor IE2 and IE3
- Optimum flow fully attuned to standard pipe diameters
- Optimum coherence between models

Low NPSH

- Extended life span as a result of favorable suction conditions
- NPSH-level 0.6 up to 4.6 (m)

Modular construction

- Wide range of options
- All specials are standard
- Short delivery times

Durable solution

- High quality materials
- 100% adjustable to application; long life span
- Sustainable production process; modern welding and production techniques
- Production monitoring; ISO 9001 certified

Ecodesign

- High score within ErP guideline
- Sustainable material
- 100% recyclable
- Minimal waste production process
- ISO 14001 certified

Noise reduction

- Negligible noise as a result of optimization of pump's flow profile and special design of motor cooling fan

Maintenance-free electric motor

- Extensive choice of voltages and frequencies
- IP55 protection
- Insulation class F
- Motor efficiency IE2 and IE3
- IEC and NEMA motors
- Temperature safeguard, ≥ 3 kW PTC
- Can be equipped with a variety of motor types, brands, or options

Shaft seal

- Extensive choice of elastomers and shaft seals
- Exchangeable without disassembling the pump
- Fixed, easy access, cartridge

Versatile pump casing

- Cast material
- Easy to connect
- VC-design with rigid flanges
- V and VS design with collar flanges
- E-design with built-in non return valve
- Draining without residue

Smart plugs

- For filling, draining, de-aerating and measuring
- Separate measuring suction and discharge pressure (Δp)
- Stainless steel AISI 304 or 316
- By-pass possible
- Durable sealing

Solid construction shroud

- Stainless steel, robust housing
- Standard pressure durability PN 40
- Low vibration and noise

Solid base plate

- Powder coated 100 μm
- Stainless steel optional

Suitable for drinking water

- Made from stainless steel AISI 304 or 316, with ACS, WRAS and NSF certification



Features and benefits

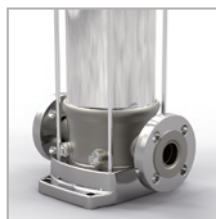


Motor

- Durable motor configurations
- Explosion proof Exe II C
- Acc. II 2 G c T3-T4
- Marine motor

Shaft seals

- 3 reliable options for a wide range of media
- Fixed seal
- Easy access seal
- Cartridge seal
- 11 different seals to suit a wide range of applications



Hydraulic assembly

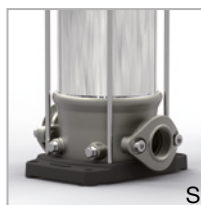
- Durable and reliable stainless steel
- AISI 304
- AISI 316

Base plate

- Powder coated cast iron (standard)
- Stainless steel (optional)

Connections

- Pressure class PN 16, 25, 40
- Option of stainless steel AISI 304 or 316
- Connections: external thread with built-in non return valve, counter flange, victaulic, triclamp, round flange
- DIN, JIS, ASME

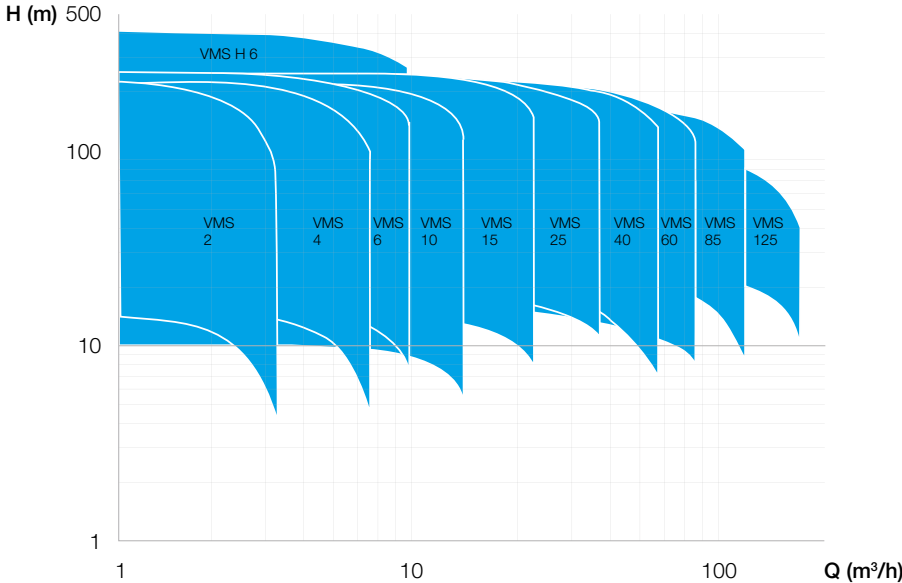


Specifications

Operating data

	50 Hz	60 Hz
Pump sizes	up to 125 mm	up to 5 in.
Capacities	up to 162 m ³ /h	up to 850 USgpm
Heads	up to 400 m	up to 1'350 ft.
Pressures	up to 40 bar	up to 580 psi
Temperatures	from -20°C to 140°C	from -4°F to 284°F

Performance range



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.

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