

**SULZER**

**LENNTECH**

*WATER TREATMENT SOLUTIONS*

## **VMS Vertical Multistage Pumps**



## Main 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

## 1 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

## 2 Low NPSH

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

## 3 Modular construction

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

## 4 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

## 5 Ecodesign

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

## 6 Noise reduction

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

## 7 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,  $\geq 3$  kW PTC
- Can be equipped with a variety of motor types, brands, or options

## 8 Shaft seal

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

## 9 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

## 10 Smart plugs

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

## 11 Solid construction shroud

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

## 12 Solid base plate

- Powder coated 100  $\mu\text{m}$
- Stainless steel optional

### Suitable for drinking water

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





### Motor

Durable motor configurations

- Explosion proof Eex 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



### 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



### Base plate

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

# Vertical Multistage Pumps for Maximum Efficiency



Oil and gas



Hydrocarbon processing



Power generation



Pulp and paper



General industry



Chemical process industry

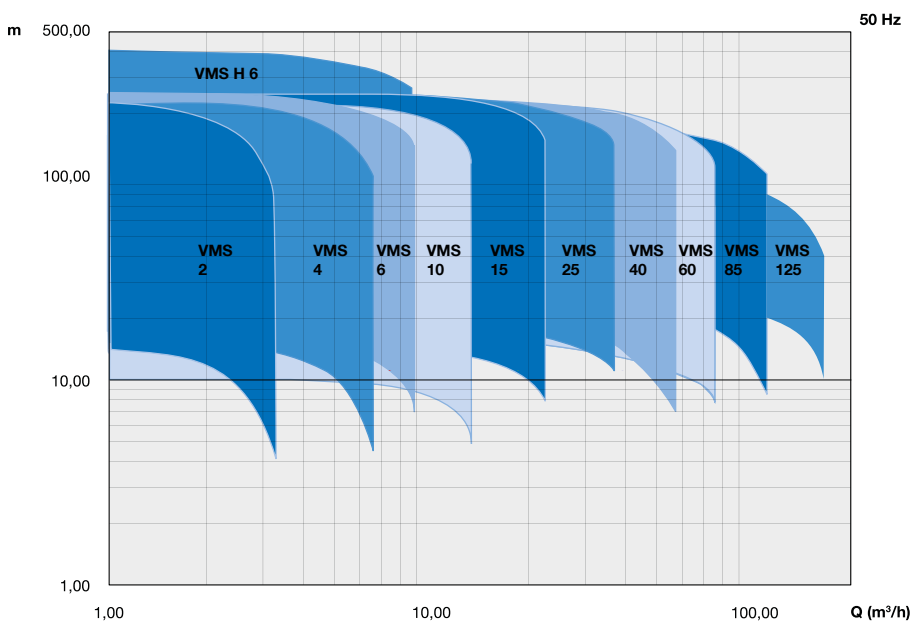


Water and wastewater

## Operating data

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

## Performance range





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