

# GRUNDFOS SEV AND SE1 RANGES

Submersible and dry-installed wastewater pumps 1.1 - 11 kW

www

[grundfos.com/water-utility](http://grundfos.com/water-utility)

## THE SEV AND SE1 RANGES:

DESIGNED TO HANDLE WASTEWATER AND SEWAGE IN HEAVY-DUTY APPLICATIONS

Unique liquid-less motor cooling for submerged or dry operation



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GRUNDFOS 

# HIGHLY ADVANCED AND FEATURE-RICH

## For submerged or dry operation

The SEV and SE1 ranges from Grundfos are technologically very advanced pumps designed to handle wastewater, process water and unscreened raw sewage in heavy-duty municipal, utility and industrial applications.

Built for years of trouble-free operation, the SEV and SE1 ranges can operate submerged or dry without motor cooling and are extremely reliable and very easy to service. A solid-block stator housing transfers excess heat to the pumped liquid in the pump housing, removing the need for cooling liquid for the motor.

The SEV and SE1 ranges are ideal for large flows, with efficient single-channel or SuperVortex impellers providing free passage of solids up to 100 mm. This greatly reduces the risk of clogging and ensures maximum up-time and reduced operating costs.



# THE SEV AND SE1 AT WORK

## For the most demanding municipal, utility and industrial applications

The SEV and SE1 ranges of heavy-duty sewage pumps offer liquid-less motor cooling for demanding and stressful wastewater pumping tasks. They can be permanently

installed using an auto-coupling guide-rail system or with a fixed pipe connection, and also for freestanding installation or as portable utility pumps.

The SEV and SE1 pumps are designed for transfer of wastewater in:

- network pumping stations
- wastewater treatment plants
- public buildings
- blocks of flats
- industry

The SEV and SE1 pumps will handle:

- municipal wastewater
- wastewater with fibres
- drainage and groundwater
- industrial wastewater
- process and cooling water



SEV-SE1 pumps can be used for alternating or continuous operation throughout the water cycle.

See examples online.



In large-scale applications, the SEV-SE1 pumps will handle continuous operation with ease.



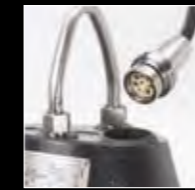
Installation options include submerged installation on auto-coupling with guide rails.



The SEV-SE1 pumps are suitable for vertical or horizontal installation to suit specific application arrangements.

# SEV AND SE1 FEATURES

## – and what they do for you



### Watertight cable plug connection

The polyurethane-filled stainless steel cable connection is hermetically sealed, ensuring that liquid cannot penetrate through the cable into the motor.



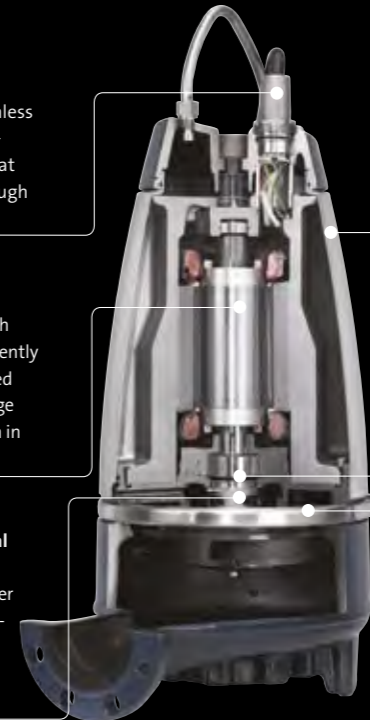
### Liquid-less motor cooling

Solid-block stator housing with built-in cooling conduits efficiently transfer excess heat to pumped liquid via a solid cast iron flange for continuous operation even in dry installations.



### Double mechanical shaft seal

Efficient single-unit cartridge shaft seal system ensures longer operation time with less downtime and is easy to replace in the field, without the need for special tools.



### Stainless steel motor jacket

Extremely robust impact-resistant stainless steel motor jacket with an easy-to-clean smooth surface.



### Integrated analogue sensors

In addition to the standard pump with thermal sensor in motor windings, a sensor version with analogue sensors offer complete monitoring of pump condition.

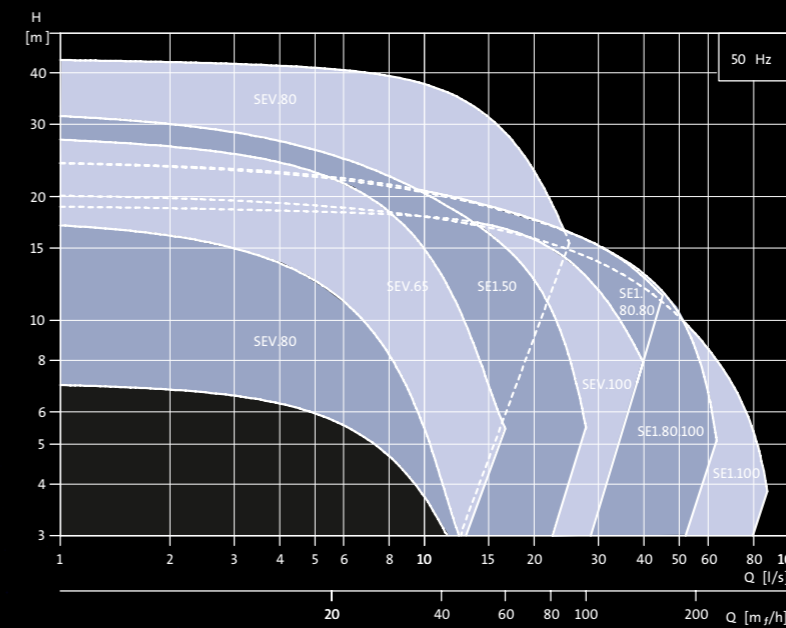


### Stainless steel clam

Unique clamp assembly system for quick and easy disassembly of pump from motor unit, where no tools are required.



# Performance overview



## SuperVortex impeller

SuperVortex impeller pumps SEV are available for free passage of solids up to 100 mm. Ideal for liquids with high content of solids, fibres, or gassy sludge.



## Channel impeller

Channel impeller pumps SE1 are available for free passage of solids up to 100 mm. Ideal for large flows of raw sewage.



Explosion-proof versions available\*



WebCAPS

The entire range is available in explosion-proof versions. All SE1 and SEV models with motors from 1,1kW up to 11 kW are provided with a II 2 GD Ex cd IIB T4, T3 Ex c tD A21 T135oC, T200oC explosion-protection classification according to EN60079-0: 2006 and EN60079-1: 2007. The pumps are also available for Australia/New Zealand with an Ex nA II T3 classification in accordance with IEC60079-15: 1987. All sensor versions are provided with a II 2 GD Ex c d mb IIB T4, T3 Ex tD A21 T135oC, T200oC explosion-protection classification according to EN60079-1: 2007, EN13463-5: 2003, and EN60079-18: 2004.

## SEE THE BIGGER PICTURE

Grundfos is a global leader within water handling technology. Our passion is to bring you all the products you require to create and operate pump systems that combine reliability, cost-efficiency – and innovation. Our products are for use in water supply and wastewater infrastructure on any scale.

Grundfos has a full line of products and systems for the intake, treatment, and distribution of drinking water and for the transport and treatment of wastewater. We also offer expertise and industry insight that can increase reliability and reduce lifecycle costs for water utilities.

Key product areas include:



Submersible pumps



Surface pumps



Sewage pumps



Mixers, flowmakers & recirculation pumps



Pumping stations



Monitoring & controls



Dosing & disinfection



Aeration equipment

Our products are the result of decades of engineering expertise. Supported by a worldwide service network.