

GRUNDFOS SEV and SE1

Heavy-duty submersible sewage pumps from 1.1 to 11 kW

The Grundfos SEV and SE1 pumps are designed for handling wastewater, process water, and unscreened raw sewage in heavy-duty municipal, utility, and industrial applications.

These two technologically very advanced series of pumps are available with efficient single-channel or SuperVortex impellers allowing for free passage of solids up to 100 mm. This greatly reduces the risk of clogging and ensures maximum up-time and low operating costs.

The SEV and SE1 pumps can be permanently installed by means of an auto-coupling system or with a fixed pipe connection, submerged or dry without separate motor cooling arrangements. The pumps are also suitable for free-standing installation, or as portable utility pumps.



UNIQUE FEATURES

➤ Unique liquid-less motor cooling

A solid-block stator housing with built-in cooling conduits makes separate water cooling unnecessary.

➤ Unique cable entry

Polyurethane-filled, stainless steel plug provides a hermetically sealed cable entry.

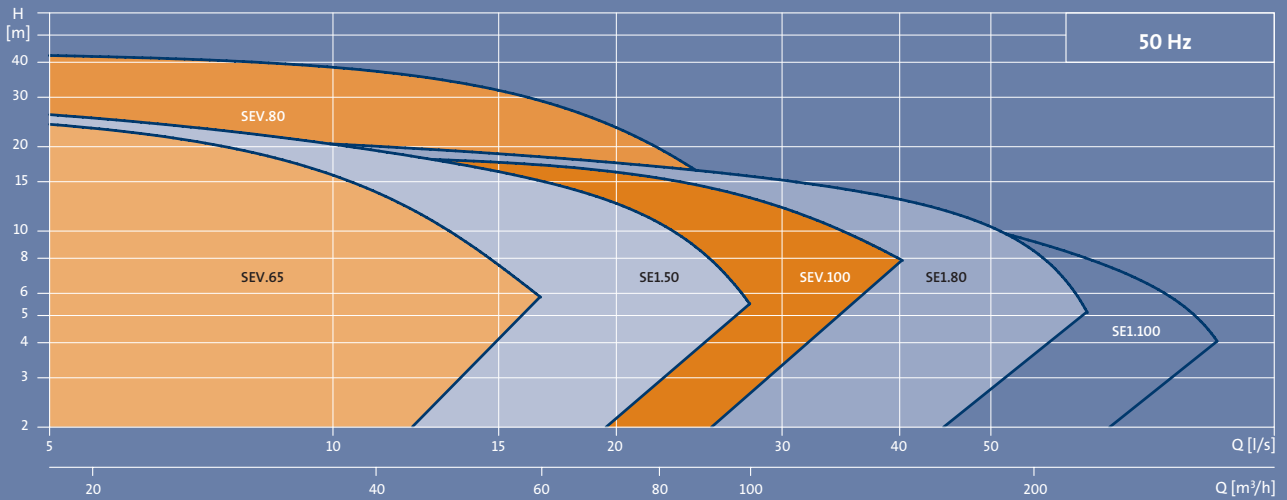
➤ Unique cartridge shaft seal

Primary and secondary mechanical shaft seals are fitted in one easy-to-replace compact cartridge unit.

➤ Unique modular design

The SEV and SE1 range is designed for maximum flexibility. The quick-detachable motor units are interchangeable and fit both channel-impeller and SuperVortex pumps.

Performance overview



Advanced technology...

...inside out



Watertight cable connection

Polyurethane-filled stainless steel cable plug connection. Prevents water from penetrating into the motor.



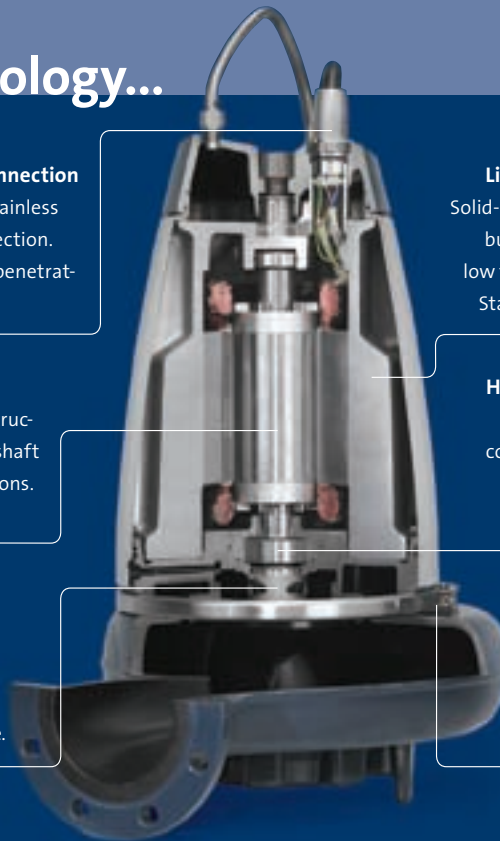
Short rotor shaft

Compact motor construction with short rotor shaft reduces motor vibrations.



Double mechanical shaft seal

Efficient one-unit cartridge shaft-seal system. Easy to replace.



Liquid-less motor cooling

Solid-block stator housing with built-in cooling conduits allow for continuous operation. Stainless steel motor jacket.

Heavy-duty ball bearings

Double row of angular-contact lower ball bearings protect against axial and side forces.

Stainless steel clamp

Unique clamp assembly system enables quick and easy disassembly of pump.



SuperVortex impeller



Ideal for liquids with high content of solids or fibres, or gassy sludge. SuperVortex-impeller pumps are available in three size ranges for free passage of solids of 65 mm, 80 mm, or 100 mm respectively.

Channel impeller



Ideal for large flows of raw sewage. Channel-impeller pumps are available in three size ranges for free passage of solids of 50 mm, 80 mm, or 100 mm respectively.