

# 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.

Both these 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 uptime and low operating costs.

The SEV and SE1 pumps can be used in permanent dry or submerged installations by means of an auto-coupling system or with a fixed pipe connection. They do not need separate motor cooling arrangements. The pumps are also suitable for freestanding installations or as portable pumps.



## Unique benefits

### Non-stop operation

Unique liquidless motor cooling enables round-the-clock operation in dry and wet installations without motor modifications

### Moisture-proof cable entry

The plug is filled with a two-component compound that prevents moisture entering the motor via the cable core

### Cartridge shaft seal

The primary and secondary mechanical shaft seals are combined into a compact easy-to-replace cartridge unit.

### Interchangeable motors

For maximum flexibility, the quick-detachable motor units are interchangeable and fit both channel-impeller and SuperVortex pumps.

# GRUNDFOS SEV&SE1

## Advanced technology – inside out



### Moisture-proof plug

A two-component sealant filling the plug prevents moisture from entering the motor via the cable core



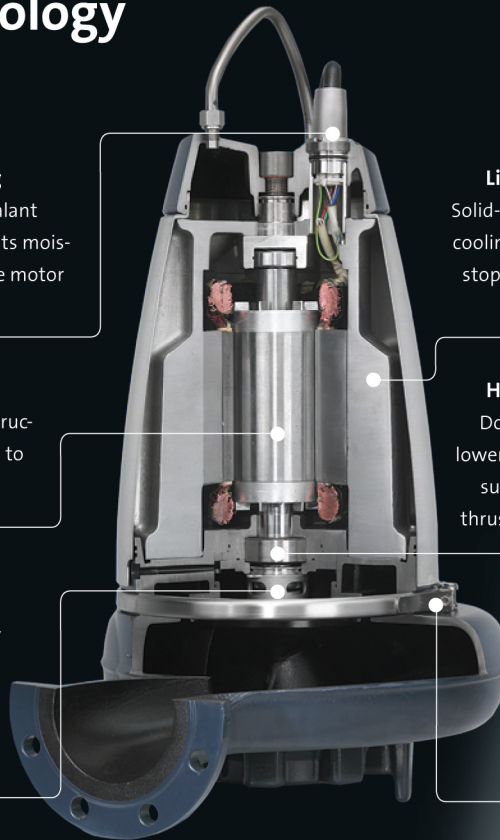
### Short rotor shaft

Compact motor construction reduces vibration to protect bearings



### Double mechanical shaft seal

Primary and secondary seals are combined into a single cartridge to reduce maintenance time



### Liquid-less motor cooling

Solid-block stator housing with cooling conduits allow for non-stop operation in submersible and dry installations



### Heavy-duty ball bearings

Double row angular contact lower ball bearings protect the support bearing against up-thrust and clogging vibrations

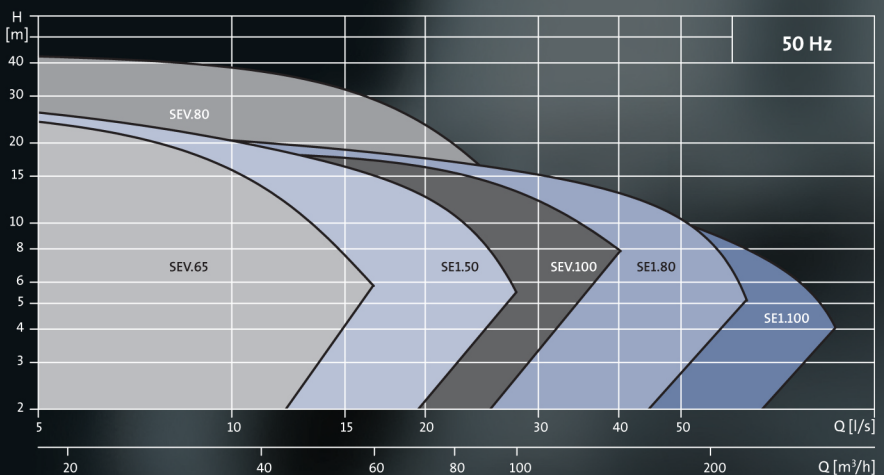


### Easy-to-open clamp

Easy to access the pump for maintenance. Enables 180° rotation of the motor housing



## Performance overview



### 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.