

# Grundfos Submersibles

## More reliable, cost-effective and easy to use

At Grundfos, innovation is about making things better, and even bigger if that is what the customers require. By integrating motor and pump, submersibles are not only more reliable and most cost-effective, but they are also easier to use than other types of pumps.

### Retrofit and upgrade

Retrofitting with submersible pumps is the easiest way to upgrade and can be achieved at a fraction of the cost of building a completely new installation. Using existing sumps also shortens the time between planning and commissioning. Submersibles can replace other types of pumps in both wet and dry installations.

With a high degree of flexibility, Grundfos submersibles can be installed in four different ways, there are five impeller types to choose from and the pumps come in a wide range of sizes.

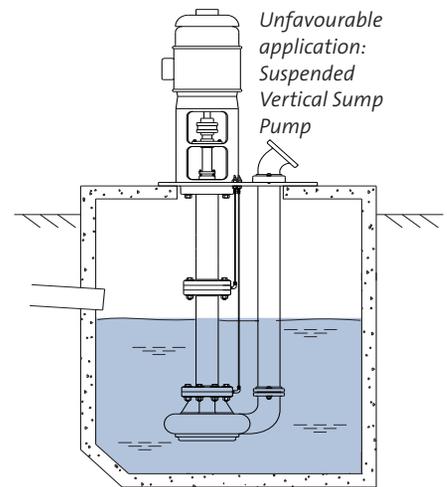
### Integrated components

When installing the Grundfos pump, there is no shaft or coupling to align because motor and pump are integrated in one compact unit. This means that expensive alignment equipment and time consuming realignment procedures can be avoided altogether.

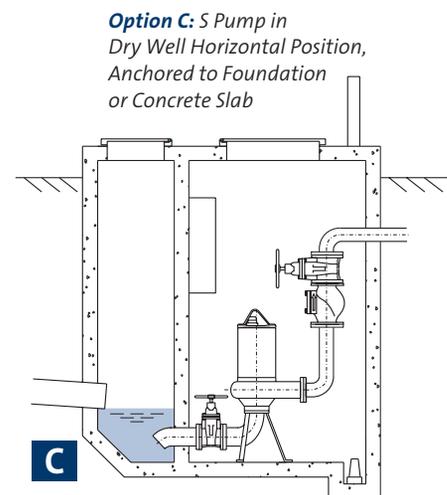
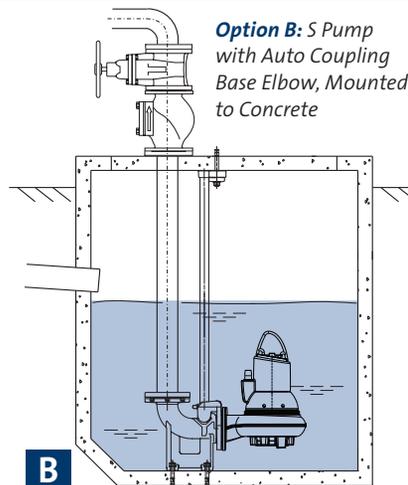
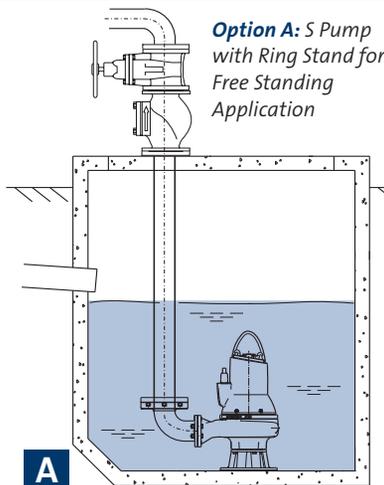
### Lower Construction Costs

Operating submerged, a Grundfos pump

requires minimal superstructure to support it. In many applications, the pump can be installed in an existing sump.



### Grundfos Alternative Retrofit / Replacement Options



### Flood proof

Grundfos submersible pumps are completely flood-proof even when installed in a dry environment. The submersible capability of our pumps ensures continuous functionality under various conditions including flooding; this same capability cuts down cost as no extra precautions against flooding are needed.

### Increased floor space

The compact size of the Grundfos submersible pump occupies very little floor space as the entire unit can fit into a sump or tank.

### Creates a better working environment

A submersible allows the pumped liquid to stay concealed below the surface and prevents it from evaporating through seals and polluting the working environment. Operating below the surface, a submersible is virtually silent. The aquatic medium absorbs sound and acts as a coolant by transferring the heat generated by the engine away from the pump.

### Trouble-free to service

In order to facilitate maintenance procedures, the submersible pump can be serviced onsite with conventional tools by the customer's own service personnel. The drive unit can be easily separated from the hydraulic end by removing a few

bolts. This separation ensures immediate access to the impeller and seals.

Grundfos also offers a wide array of workshops and distributors ready to provide an outstanding service and accessibility in more than 120 countries around the world.

### The submersible advantage

The diversity of the submersibles makes them a great fit for many industries such as: municipal wastewater, chemical and petrochemical, food and beverage, pulp and paper, steel processing, power generation, and mining. The most common applications include:

- Wastewater
- Process water
- Run-off
- Cooling water
- Wash water
- Water supply
- Drainage/storm water
- Discharge
- Sludge and slurries

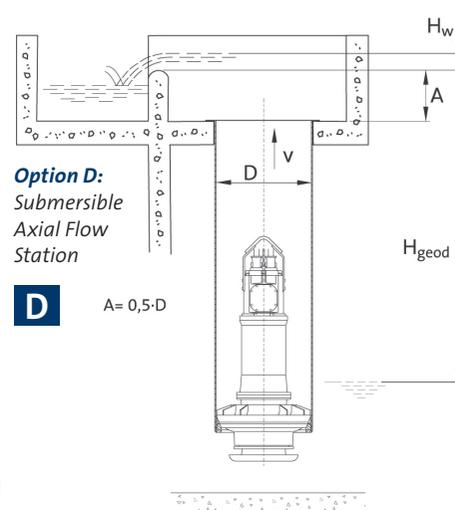


### Less heavy equipment

A submersible pump also requires less auxiliary equipment. With a Grundfos unit, difficulties with suction heads, or heavy, long shafts are eliminated. This makes expensive valve control systems and extra piping completely unnecessary.

### Easily accessible

Unlocking automatically from its discharge connection, a submersible pump can be removed within minutes without having to empty the sump. Due to the ease in which this compact unit can be reinstalled, a standby unit can replace another unit that needs servicing, thus eliminating downtime entirely.



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