



BASIC PRINCIPLES AND PUMP TYPES

GRUNDFOS PUMP TYPES

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What are the main pump types we produce?

Most Grundfos pumps are centrifugal pumps of the rotational variety, but we also offer membrane pumps for dosing & disinfection applications. The main types are:

- Norm pumps
- Split-case pumps
- Hermetically sealed circulator pumps
- Sanitary pumps
- Wastewater pumps
- Immersible pumps
- Borehole pumps
- Single-stage pumps
- Multi-stage pumps
- Dosing pumps



Norm pumps

Benefits

- Built-in dimensions and performance according to international standards
- Large performance area with many variants
- Available in cast iron and stainless steel, even with bronze impellers
- Easy to maintain & service

Applications

Water supply; industrial pressure boosting & liquid transfer; HVAC; irrigation



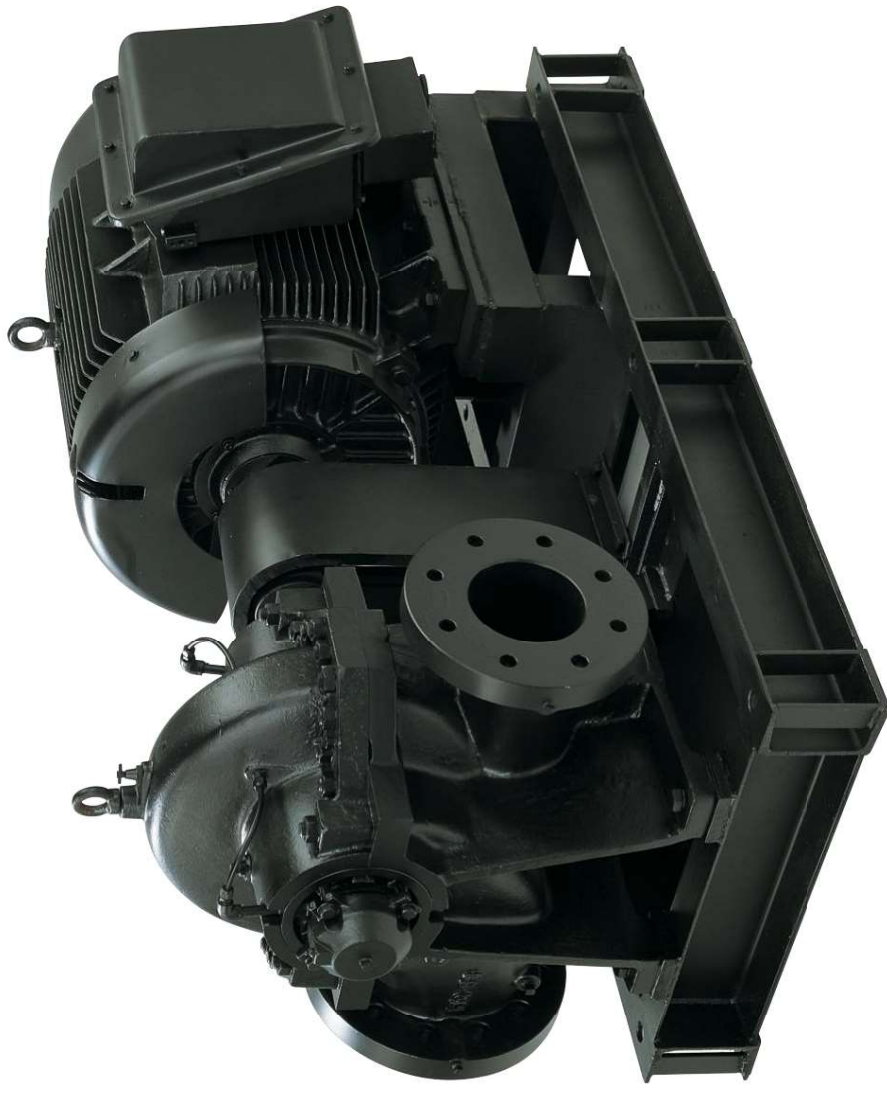
Split-case pumps

Benefits

- Easy service and maintenance
- Low lifecycle costs
- Large performance area

Applications

Water distribution; irrigation; air conditioning & cooling systems; boiler feed



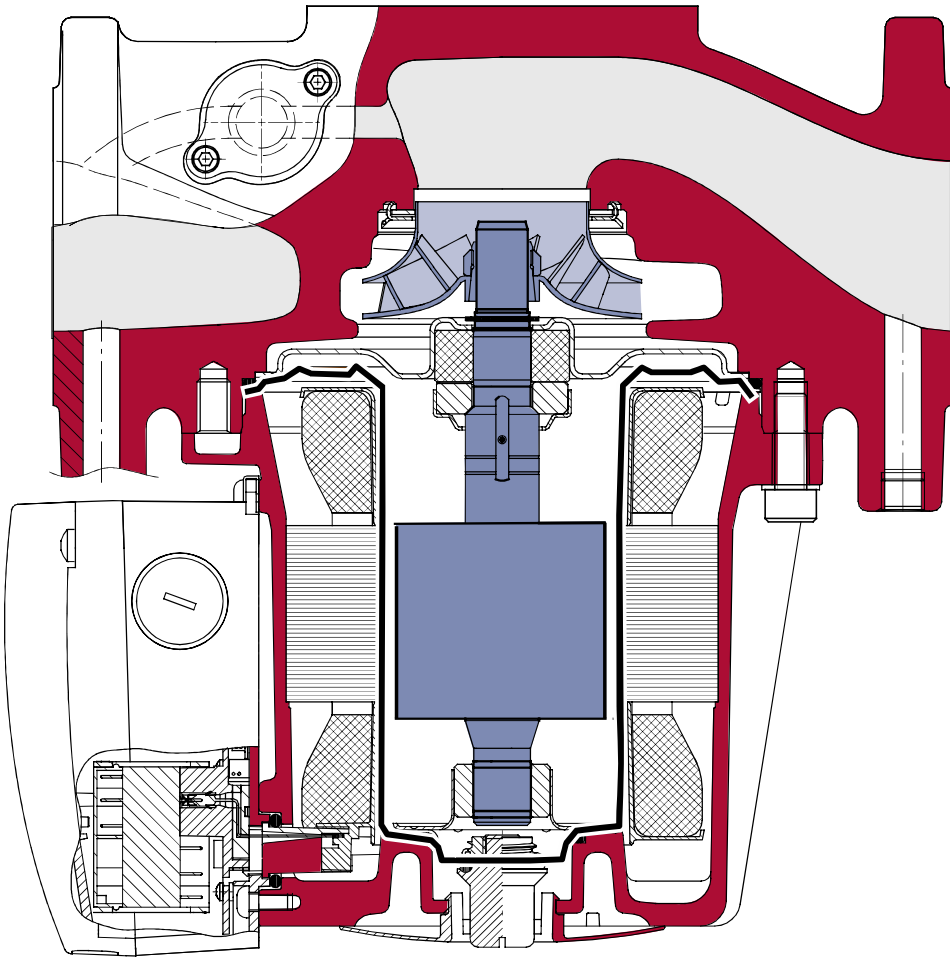
Hermetically sealed circulators

Benefits

- Energy efficiency
- No noise
- Very long service life
- Many automatic and manual adjustment options

Applications

Liquid circulation in heating systems; circulation of hot tap water; circulation in air-conditioning systems



Sanitary pumps

Benefits

- Hygienic design
- All polished stainless steel
- Large range for most applications

Applications

Food and beverages – both thin and highly viscous liquids



Wastewater pumps

Benefits

- Solids handling capability
- Dry and submersible installation
- Easy removal of pump from installation thanks to automatic coupling system

Applications

Wastewater pumping station and treatment plants; raw water intake; de-watering



Immersible pumps

Benefits

- Able to pump chips from machining process
- Adaptable build-in length
- Large number of variants with many different materials and sealing solutions

Applications

Cooling; lubrication and filtration in machine tools; condensate transfer; industrial washing machines



Borehole pumps

Benefits

- Underground installation in bore hole
- High efficiency
- Different stainless steel and cast iron materials
- Large performance area

Applications

Groundwater supply for drinking water, irrigation and groundwater lowering; mining; fountains



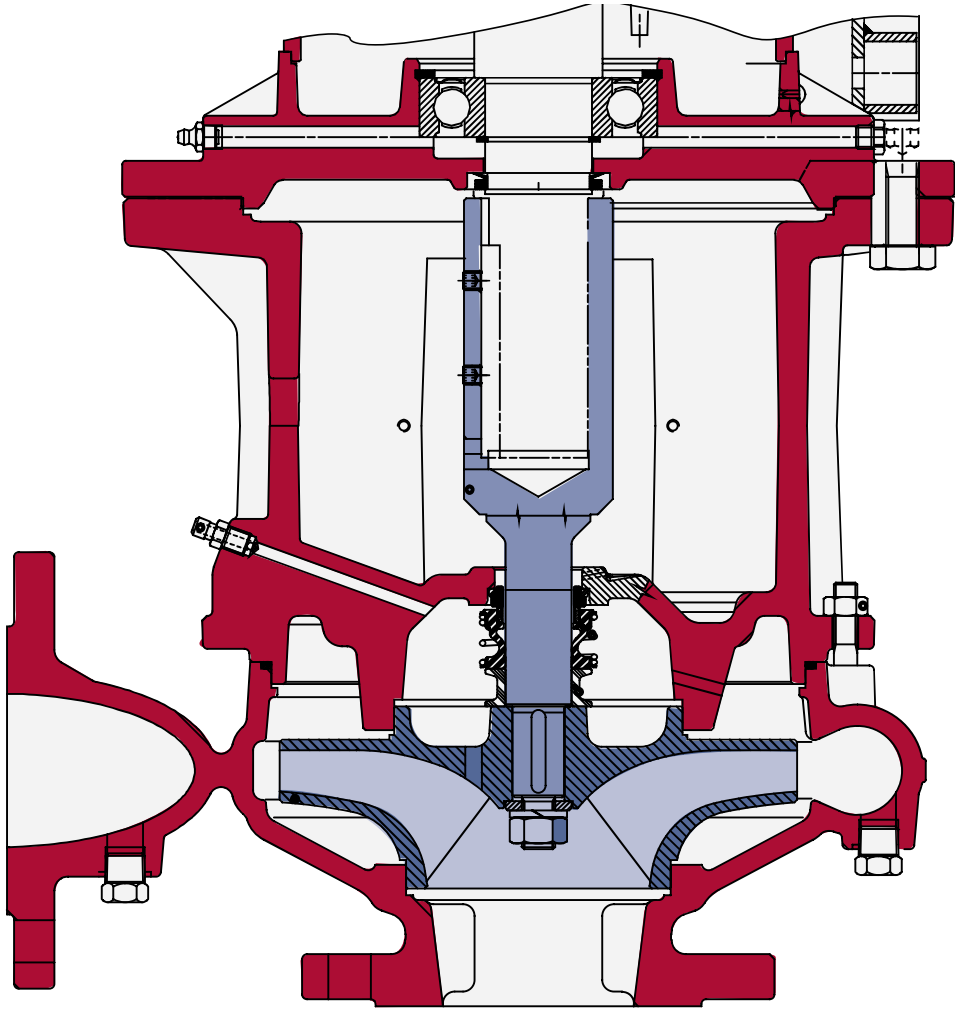
Single-stage pumps

Benefits

- Large performance area with many variants
- Available in cast iron and stainless steel, even with bronze impellers
- Easy to maintain and service
- Usable in high and low temperatures

Applications

Water supply; industrial pressure boosting & liquid transfer; HVAC; irrigation



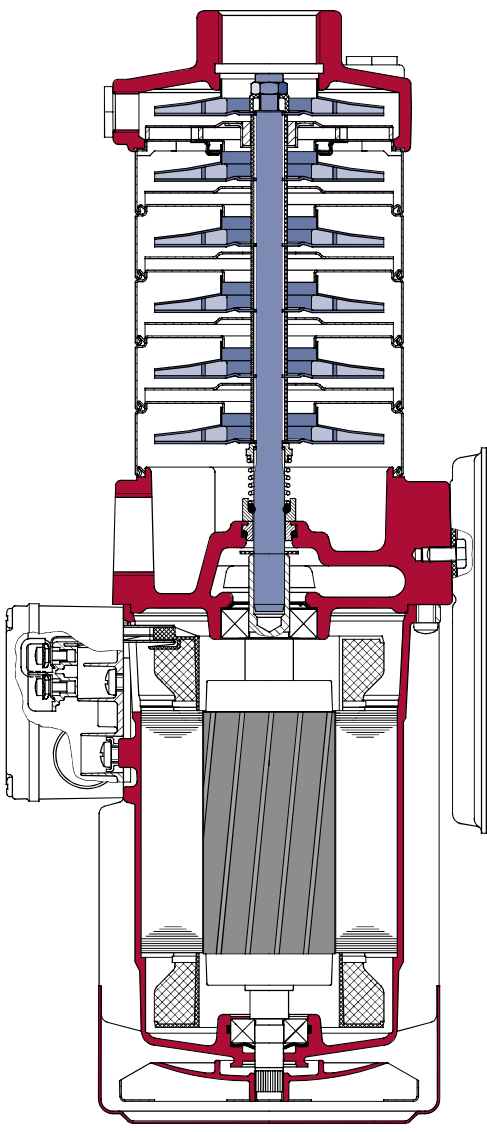
Multi-stage pumps

Benefits

- Huge number of customised solutions for industrial applications
- Lots of product variants
- High efficiency and low lifecycle costs
- Easy service & maintenance

Applications

Most industrial applications with no hygienic requirements; heating; cooling; mining; machine tool; irrigation



Dosing (membrane) pumps

Benefits

- High-precision pumping saves chemical
- Resistant to chemicals
- Compact and efficient
- Wide performance area per pump (large turn-down ratio)

Applications

Dosing and disinfection systems in the pulp and paper, textiles, food and beverage, industrial process water and waste industries





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