GRUNDFOS
ECADEMY

BASIC PRINCIPLES AND PUMP TYPES

GRUNDFOS PUMP TYPES

be
think
innovate

GRUNDFOS

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

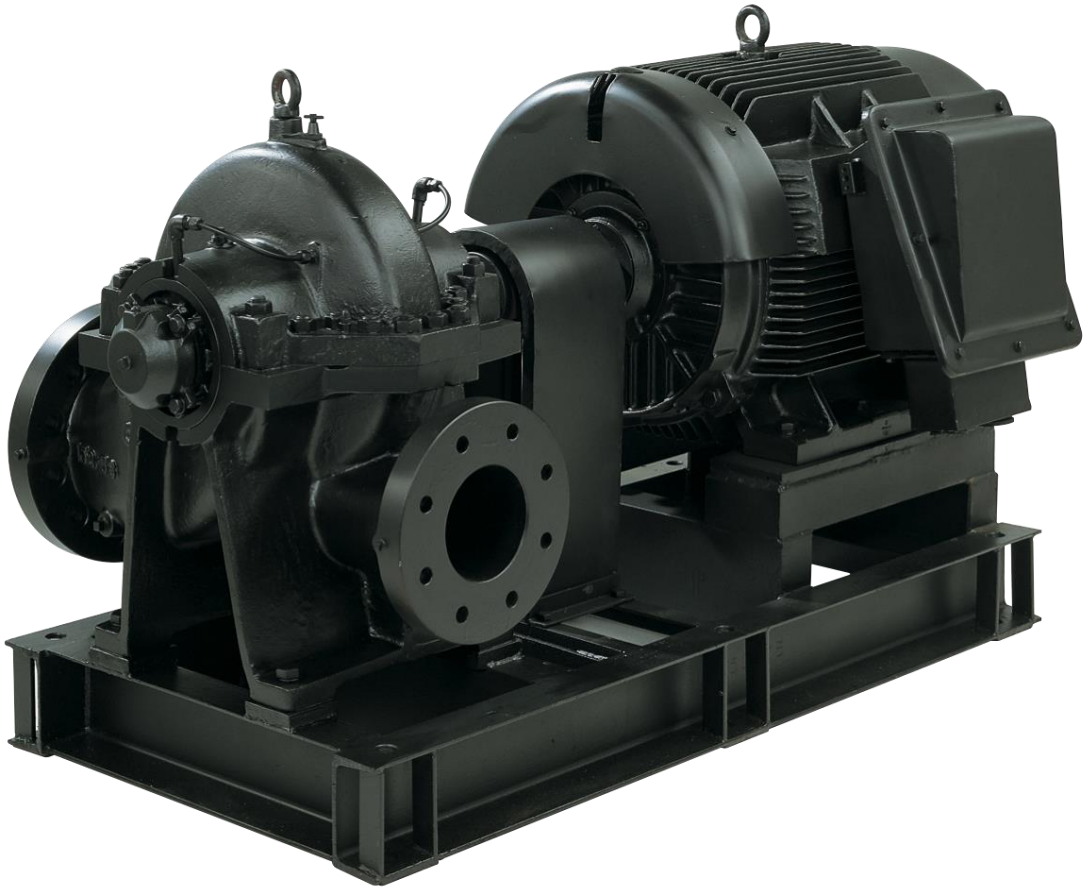
Split-case pumps

Benefits

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

Applications

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



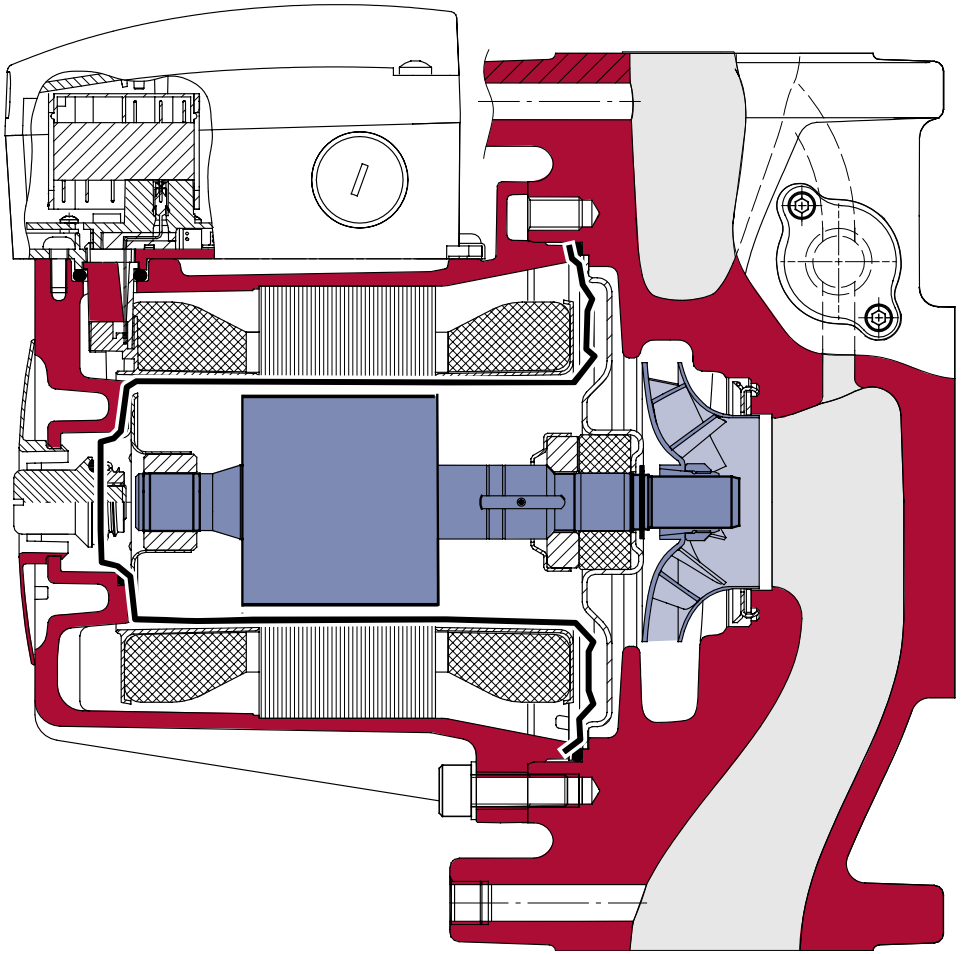
Hermetically sealed circulators

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

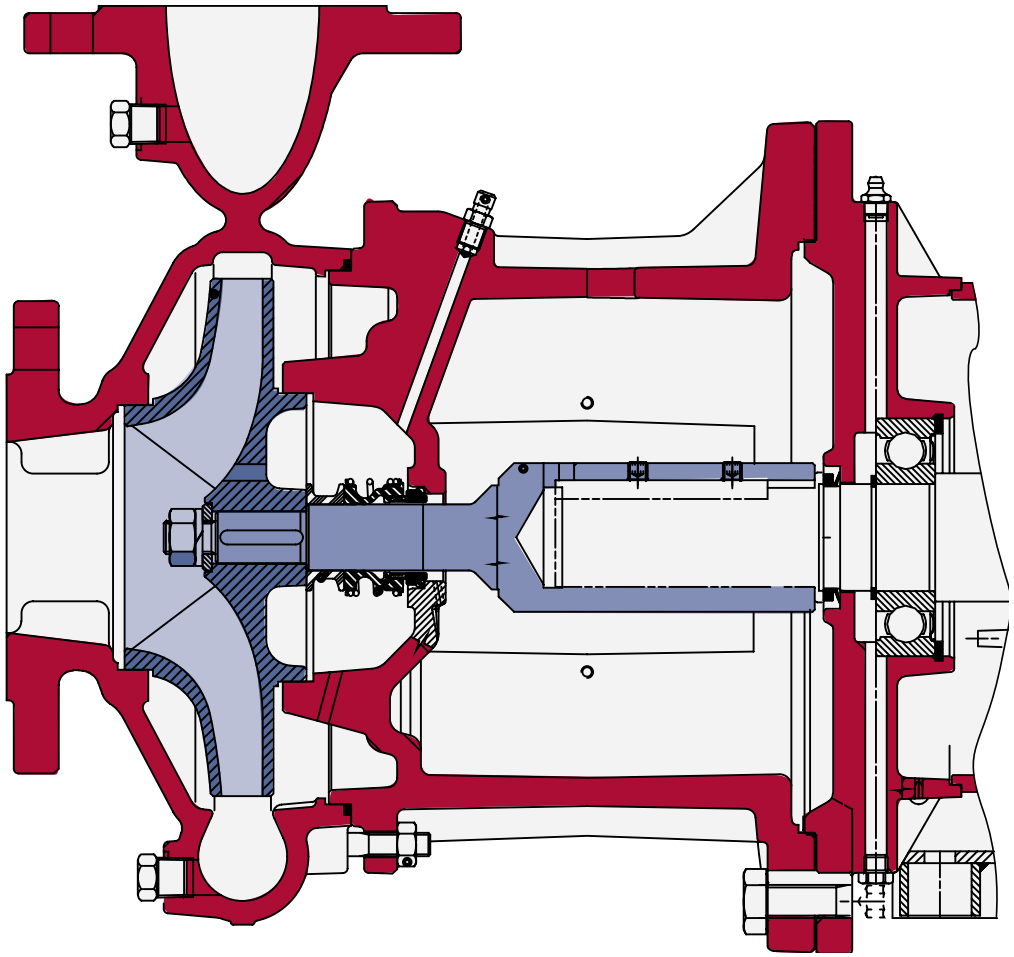
Single-stage pumps

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

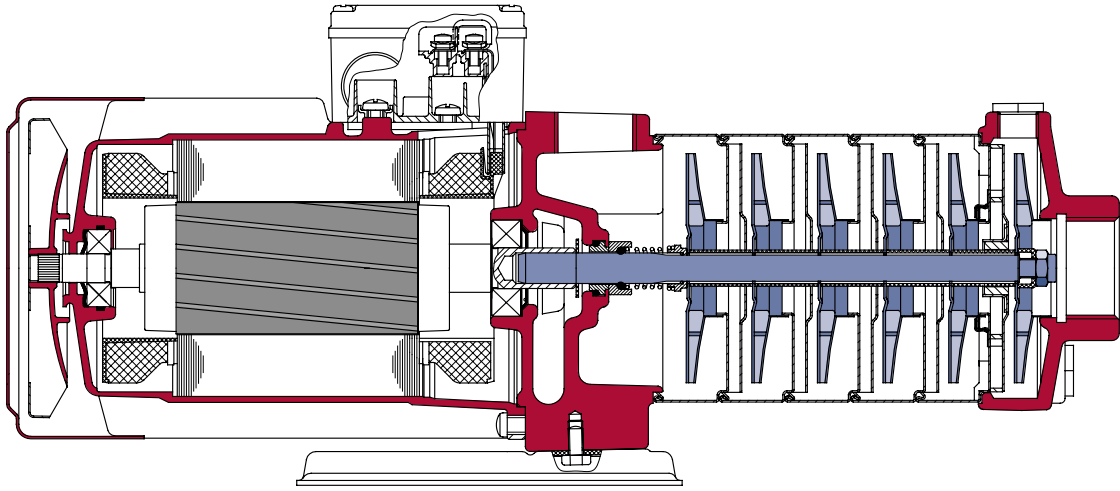
Water supply; industrial pressure boosting & liquid transfer; HVAC; irrigation



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

GRUNDFOS ECADEMY

www.grundfos.com