

DANFOSS ACCESSORIES

high-pressure pumps



high-pressure solenoid valves



APP seawater RO pumps



nozzles



pressure relief valve VRH



non-return valve VCH

Accessories

Water mist nozzles with anti-drip

This nozzle has been widely used within the humidification industry for years. It is tailored for fine water atomization in applications like comfort humidity control, open space humidification, adiabatic cooling etc. The nozzle generates billions of very small droplets at a size of 20 micron (D90-value), depending on pressure and water quality. The nozzle has a long life expectancy; due to the stainless steel design, the droplet size and spraying pattern will not rapidly deteriorate. The stainless steel design allows operating the nozzle with ordinary tap water as well as any treated water like deionised, demineralised or reverse osmosis water. All nozzles come with a built-in check valve as standard. In connection with Danfoss' advanced 3/2-way valve technology, an absolutely "dripping-free" operation of the system can be achieved. The impeller inside the nozzle is removable and can very easily be cleaned if necessary.

Specification

- o stainless steel 303 and Viton® FPM
- o maximum pressure: up to 70 bar
- o liquid temperature: max. 90 °C
- o dripping-free operation
- o suitable for ordinary tap water as well as treated water

- o long service life
- o excellent spray pattern
- o easy to clean

Non-return valve VCH with conical design

The function of the non-return valve is to allow flow in one direction while blocking it in the other.

Specifications

- o standard with BSP thread
- o stainless steel 304
- o maximum pressure: up to 300 bar
- o available in 3 models:
 - 30 l/min
 - 60 l/min
 - 120 l/min
- o low opening pressure
- o low pressure loss



Pressure relief valve VRH

The relief valve is used for protecting the components of a system against overload as a result of a pressure peak. Further, the valve is designed for controlling/limiting the system pressure by draining off the surplus water from the pressure side. The valve is designed for tap water, i.e. without additives of any kind to the medium.

Specifications

- o stainless steel 304
- o maximum pressure: 210 bar
- o liquid temperature: max. 50 °C
- o available in 3 models:
 - 30 l/min
 - 60 l/min
 - 120 l/min
- o easy to clean
- o version made of AISI 316 on request
- o various pressure settings depending on model
- o standard with BSP thread

High-pressure solenoid valves VDHT

Wide range of 2/2-way solenoid valves, inline and integrated valve blocks. On/Off pilot operated poppet valve, electrically activated by 1 coil. The VDHT valve series are designed for applications in neutral media compatible with the sealing and O-ring materials used. Typical media are water, cleaning fluids and light heating oil.

Examples of applications:

- o car wash systems
- o high-pressure part washing machines
- o mobile high-pressure cleaning
- o dust binding systems

Specifications

- o stainless steel 304 or 316
- o maximum pressure: up to 210 bar
- o liquid temperature: max. 90 °C
- o easy to clean
- o capacity up to 150 l/min
- o corrosion proof
- o reliable
- o standard with BSP thread, option NPT

APP seawater pumps

APP pumps are designed to supply low viscosity and corrosive fluids under high pressure, e.g. in seawater reverse osmosis filtration applications and for high-pressure salt water pumping. The pumps are based on the axial piston principle enabling a very light and compact design. The design ensures that lubrication of the moving parts in the pumps is provided by the fluid itself. No oil lubrication is thus required.

Specifications

- o made of duplex or super duplex
- o rated pressure: 70 bar
- o compact design
- o capacity: 0,6 up to 38,3 m³/h
- o rated power up to 101 kW
- o speed, depending of the model: 3000 - 1200 rpm
- o service interval: 8000 hours
- o no oil lubrication needed (self-lubricated)
- o pump position: vertical or horizontal
- o closed coupled motor mounting