

Frese safety valves

Application

Safety valves discharge surplus quantities of air, water, or steam from water tanks or piping systems such as heating -, hot domestic water -, and solar heating systems.

Connection to heating/solar heating systems

Safety valves are to be mounted on top of the boiler or heat exchanger. There should be no isolation ball valves or other reductions of area between safety valve and boiler/heat exchanger. The discharge pipe (at least 15 mm internal diameter) from the safety valve should end in a drain with open and visible discharge orifice.

Connection to domestic water

The safety valve for hot domestic water is to be mounted on the cold water pipe of heat exchanger of hot water tank. There should be no isolation ball valves or other reductions of area between safety valve and boiler/heat exchanger. The discharge pipe from the safety valve should end in a drain with open and visible discharge orifice.

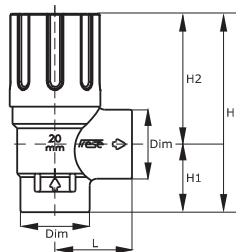
Check-up and draining

Turn the handle to the first notch, and the valve is completely open. The valve can be checked, and the system can be drained of water through the safety valve. Turn again and the valve acts as a normal safety valve.

Technical Data

DN 20 spring loaded angle pattern safety valve with handle.

- Valve housing:** DZR brass
- Gasket/diaphragm:** EPDM rubber
- Handle:** POM plastic
- Temperatures:** Up to 120°C
- Opening area:** 3.14 cm²



DN 20 female/female	Frese no.
2.5 bar	42-1143
6.0 bar	42-1146
8.0 bar	42-1148
10.0 bar	42-1149



DN20 male/female	Frese no.
2.5 bar	42-1343
6.0 bar	42-1346
10.0 bar	42-1349

Heating systems and solar heating systems

Safety valves with opening pressures 2.5 bar are applicable.

Domestic water systems

Safety valves with opening pressures 6.0 bar, 8.0 bar, and 10.0 bar are applicable.

In Denmark the safety valve **must** be at least DN20.

Release capacity

The release capacity of the valves is as follows:

Dim.	Pressure (bar)	Release capacity	Release volume	Type of system
DN20	2.5	130.6 kW	5,280 l/h	Heating system
DN20	6.0	15.8 kW	6,360 l/h	Domestic water system
DN20	8.0	24.4 kW	7,920 l/h	Domestic water system
DN20	10.0	33.6 kW	9,480 l/h	Domestic water system

Dimensions

Type	Dim.	H1	H2	H	L	Weight
Female/female	20 mm	30 mm	60 mm	90 mm	34 mm	305 g
Male/female	20 mm	34 mm	60 mm	94 mm	34 mm	320 g

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