Pressure Relief Valve 2115 stainless steel

with **stainless steel seat** DN 15 + DN 20 for unvented (pressurised) water heaters

Field of application

The pressure relief valve type 2115 stainless steel in sizes DN 15 and DN 20 is designed to protect pressurised fluid systems against overpressurisation. It is predominantly used for unvented (pressurised water heaters.The connection size has to be determined in accordance with the heating capacity of the heat-generating device to be protected as given in the table. The relief capacity is indicated in the table.
The opening pressure of the pressure relief valve indicated on the black seal pressed in the lifting handle of the valve has to be at least 20 % below the highest permissible operating pressure of the system to be protected.
The pressure relief valve type 2115 stainless steel is suitable for use in solar heating systems.

Design

The operational parts in the pressure relief valve type 2115 stainless steel are protected against direct contact with the medium (protection against corrosion). The pressure relief valve 2115 stainless steel can be lifted by means of the rotatable handle.

Pressure relief valve 2115

Materials

The body and the internal parts are made of a high-quality low-lead brass alloy; the spring cap is made of high-quality glass fibre reinforced synthetic material.
The diaphragm and the seat are made of heat and ageing resistant elastomeric synthetic material and the spring of corrosion protected spring steel wire. The valve seat is made of high-quality stainless steel.

Installation

The pressure relief valve type 2115 stainless steel has to be installed in the cold water inlet of the water heater. To avoid draining the water heater when the valve is serviced, it should be placed above the top surface of the water heater. There shall be no isolating valves, strainers or similar devices between the pressure relief valve and the water heater.
The enclosed adhesive label with the inscription: „When heating, water has to escape from the relief pipe for safety reasons! Do not obturate!" has to be placed close to the valve in a visible position.
The diameter of the relief pipe must be at least equal to the nominal size of the valve outlet. The relief pipe has to be installed with continuous incline. It can maximally include 2 bends and have a length of 2 meters. When a length exceeding 2 m is necessary, the pipe must be one size larger. Caution: more than 3 bends and a length exceeding 4 meters are not admissible. The outlet of the relief pipe must be free from obstruction, controllable and positioned in such a way that persons are not endangered. The relief pipe has to end in a drain device or over a tundish within the building. When the relief pipe ends over a tundish, it is indispensable that its drain pipe has at least the double cross section of the valve inlet.

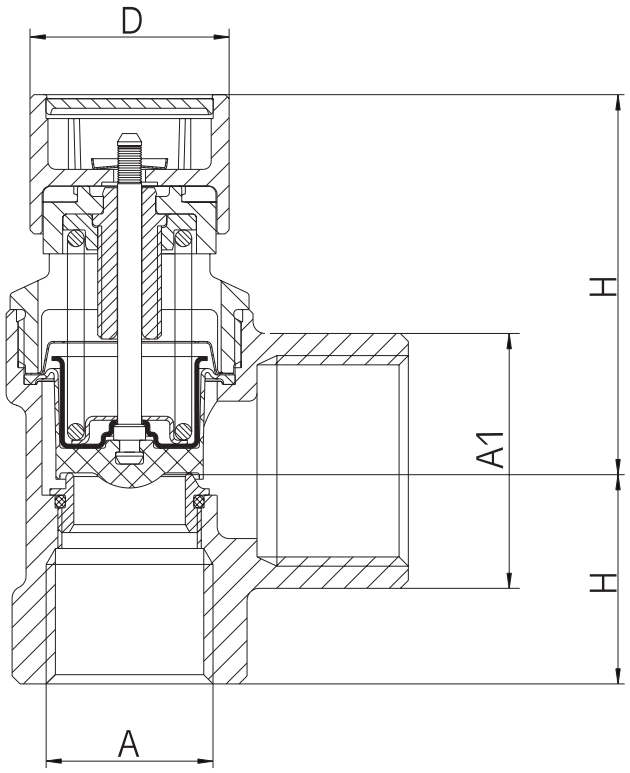
Thoroughly rinse the pipe prior to installation.
Install the pressure relief valve under consideration of the flow direction (see arrow on the body) in compliance with the instructions.

Technical data

Operating temperature:	max. 110 °C
Opening pressure:	2 - 10 bar
Standard setting:	6, 8, 10 bar
Mounting position:	preferably main axis vertical, inlet connection pieces facing downwards
Components approval number:	TÜV-SV-15-545-DN-W-N-p
Fluids:	water, neutral non adhesive fluids
Serial number:	2115 stainless steel ...
	CE 0085

Maintenance

It is recommended to service the device on a regular basis.
The correct function of the pressure relief valve should be checked by qualified personnel at initial operation and then once a year: turn the lifting handle in the direction of the arrow until you hear a click. Afterwards, the valve has to be closed tight. Should the valve drip constantly, it is very likely that impurities have built up in the seat. To clean the valve seat and seal, unscrew the head part. After cleaning, refit the head part; the opening pressure remains unchanged. If required, the stainless steel seat of the pressure relief valve type 2115 stainless steel can be exchanged.



Nominal size		DN 15	DN 20
	A	R ½“	R ¾“
	A 1	R ¾“	R 1“
Dimensions in mm	H (mm)	50	52
	h (mm)	28	34
	D (mm)	31	31
Capacity of unvented (pressurized) water heaters	l	up to 200	201-1000
Heating capacity	max. kW	75	150
Opening pressure	bar	max. relief capacity m^3/h	
	4	2.8	3
	4.5	3	3.2
	5	3.1	3.4
	5.5	3.3	3.6
	6	3.4	3.7
	7	3.7	4
	8	4	4.3
	9	4.2	4.6
	10	4.4	4.8

Components / Order numbers

Components / Order numbers

①

Head part

②

Stainless steel seat
4807.00.907
(no fig.): tool for exchange
4807.00.911

③

Body