

Manual for Installing and Operating the Safety Valve

TE-2852 DN20 – safety valve in-line with the female connecting threading of the body and the dump plug.

Technical Data:

Max. operating pressure	0.6 MPa
Safety overpressure	0.63±0.03 MPa
Maximum operational temperature	90 °C

Use:

Safety valve: picture No. 1: the safety armature, which ensures the safe function of electrical and combined water heaters. It enables the connection of the stated water heaters to the mains for potable and utility water up to a maximum operating pressure of 0.6 MPa. For water system with a higher operating pressure, it is necessary to install a reduction valve for reducing pressure in the system.

Part of the safety valve is the return valve "B", which prevents reversed flow of water into the water system, when the pressure of water in the system decreases.

Safety valve "A" rectifies overpressure caused during the heating of water in the heater, or in the case of a damaged thermostat.

Checking the functionality of the safety valve:

The functionality of the valve is verified by turning control "2" to the left by about 20°. During this act, the membrane is moved away from its seat and water pours from drain "1". After a further turning to the left (so-called snapping the valve) the membrane must return to its original position and water must stop pouring from drain "1".

The valve must be checked in this way at least once a month and also before each putting the heater into operation. While verifying the functionality of the valve, careful attention must be paid due to the outflow of warm water from drain "1" and the risk of possibility of injury.

In the case that after checking the functionality of the valve, drain "1" is still emitting water, it is necessary to RINSE several times by turning control "2" to the left, so that any potential dirt particles are removed from the safety valve.

Setting the Safety Valve:

During its production the safety valve is set to a safety overpressure of 0.63±0.03 MPa and is secured by a star safety catch to prevent a change in the settings. The value for the safety overpressure is listed on cover "3".

IMPORTANT NOTICE FOR USERS:

During the heating of water, it drips over the outflow safety valve, which is a normal occurrence due to its increased volume as it is heated. Closing the drain is forbidden.

Warranty:

The safety valve is covered by warranty, with its duration set according to Commercial law.

In the case of a malfunction in the valve, it is necessary to alert the vendor, from whom the product was purchased. He will file a returned goods claim with the manufacturer.

The manufacturer is exempt of liability in cases of incorrect installation of the safety valve, respectively, servicing performed on individual parts of the valve or removing cover "3" and the star safety catch.

In cases of opening the safety valve, the user risks damaging property and endangering persons.

Mounting Instructions:

The valve must be mounted to the water lines of the heater, according to picture no. 2, to the intake of cold water entering the heater, according to the arrow for the direction of water, which is shown on the body of the safety valve on the manufacturer's trademark. No closing armature may be mounted between the water heater and the safety valve.

Mounting of the safety valve to the water main must be done in such a way that no dirt enters the body of the safety valve and the valve must be accessible to operators. The outflow opening of drain "1" must be situated in such a way so that the free outflow of water is secured and should be heading down: see picture no. 2 and should be secured against potential damage and freezing.

The maximum pressure in the cold water system must be at least 20% below the opening pressure of the safety valve. If this condition isn't met, it is recommended to mount a central reducing valve.

It is possible to implement two methods of draining wastewater:

1st method: hose connection.

Slide a Ø15 mm hose onto an elbow and secure it in a suitable fashion.

2nd method: drain pipe.

Cut off the hose attachment at the elbow just in front of the threading (see picture no. 1) and connect a pipe using standard connecting accessories (a nut over a G 3/8 connecting thread) and tighten using a suitable tightening.

The hose and drain pipe must withstand operating temperatures.

In no case is it allowable to close, respectively clog the outflow opening, or other blocking of the free outflow of water from the outflow opening of the safety valve.

Draining the Heater (picture no.):

The safety valve is equipped with drainage plug "4", which is used, when needed, to drain water from the heater. Procedure

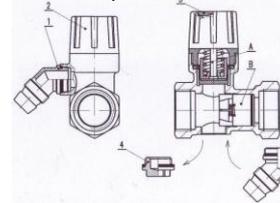
for draining:

- Close the closing armature at the inlet of water to the heater
- Depressurize the heater by turning control "2" to the left
- Unscrew drain plug "4" and screw elbow "1" from the outflow part of the safety valve and let the water flow out of the drainage system.

WARNING:

It is forbidden to drain the water over the seat of the safety valve. Loosening of part of the limestone deposits can permanently damage the seat and membrane of the safety valve.

Picture no. 1: safety valve



Picture no. 2: mounting the safety valve to the water mains

