

Safety Assembly 324

for electric storage water heaters up to 200 l, with PRV and stainless steel seat



5

Field of application

The safety assembly type 324 protects unvented (pressurised) electric wall-mounted water heaters up to a volume of 200 l. This streamline-shaped compact valve includes all components required for protection, such as isolating valve, check valve and diaphragm pressure relief valve. The pressure relief valve protects the downstream water heater by automatic opening, which prevents the pressure from exceeding the admissible service pressure. The check valve prevents the backflow of heated drinking water. In addition, the safety assembly type 324 includes a pressure reducing valve located

upstream, which reduces excessive inlet pressures to the required system pressure. When the inlet pressure is unstable, there is no uncontrolled dripping of the pressure relief valve.

The safety assembly type 324 is a robust model with a stainless steel seat, which is also suitable for aggressive water conditions. The isolation of the device can also be used as a flow limiting valve. When the water heater works at temperatures above 60°C, use the safety assembly type 324.3 (with thermostatic mixing valve).

Design

The safety assembly type 324 is made of a high mirror finished chrome-plated brass housing. The safety assembly type 324 includes a tested pressure relief valve, a wear resistant stainless steel seat, an isolating valve, a manometer plug, a check valve, a test port, a pressure reducing valve,

a siphon with cover plate and chrome-plated connection accessories. The SYR module system allows easy maintenance or exchange of all components of the safety assembly type 324. The device can be retrofitted with the thermostatic mixing valve 703.

Materials

The body, internal components, plug and unions of the safety assembly type 324 are made of a high quality low-lead brass alloy. The seat of the pressure relief valve is made of wear-resistant stainless steel. The isolating knob, check valve and siphon are made of high quality synthetic material. Glass fibre reinforced spring cap. The diaphragm of the pressure relief valve and all sealing elements are made of heat and ageing resistant elastomeric

synthetic material. The spring of the pressure relief valve is made of corrosion resistant spring steel wire. The connecting tubes are made of chrome-plated copper. All materials are tested and certified by an internationally recognised test institute in Germany (DVGW). All synthetic components getting in contact with water designed for human consumption are approved by the German Public Health Office (KTW).

Installation

Install the safety assembly type 324 in the cold water pipe upstream of the water heater according to specifications. Install a filter upstream at the domestic point of entry in order to ensure durable functionality of the device. The safety assembly should be readily accessible to simplify maintenance works.

Due to expansion water can drip from the drain pipe for safety reasons when the water heater is heating. Do not shut off! Follow the manufacturers' indications for the water heater when installing the safety assembly type 324.

Thoroughly flush the pipe prior to installation. Install the safety assembly type 324 in the cold water supply line according to manufacturers' indications. Use the connecting pipes included in the delivery

for connection with the water heater. Do not apply stresses. Make sure that the union is correctly positioned.

Technical data

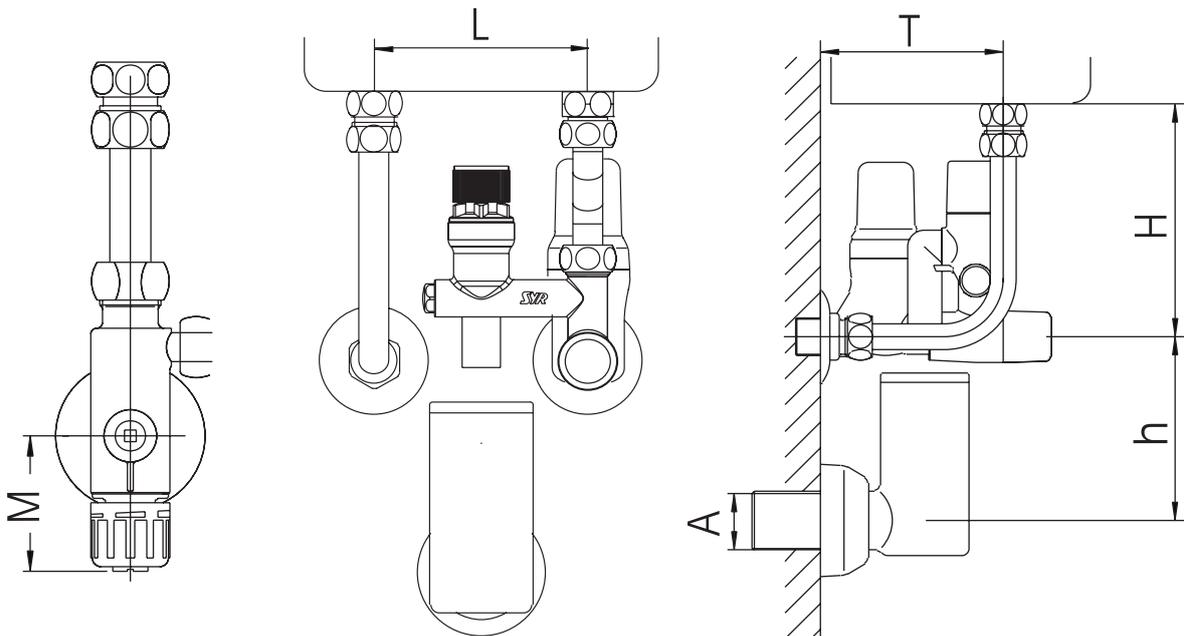
Inlet pressure:	max. 16 bar
Outlet pressure:	1.5 - 5 bar, adjustable
Factory setting of pressure reducer:	4 bar
Service pressure:	max. 20% below set pressure of pressure relief valve
Standard setting of pressure relief valve:	6 bar
Operating temperature:	max. 30°C (inlet temperature)
Regulation range of mixing valve (324.3):	40°C - 60°C
Fluid:	potable water
Components approval number:	TÜV-SV-15-545-DN-W-p
Certified by DVGW:	NW-6330AT2061(DM)+NW-6311AU2210(SG)
Acoustic testing:	PA-IX 7636/I(PRIV)+PA-IX 7722/I(SG)
Serial number:	0324...

Maintenance

It is recommended to carry out maintenance works on a regular basis for durable functionality of the safety assembly type 324. The diaphragm pressure relief valve can be lifted by means of the rotatable knob. The supply line can be isolated by means of the stop valve in the safety assembly for maintenance works on the downstream system (incl. pressure relief valve). Unscrew the head part for

cleaning the seat and seal of the pressure relief valve; the opening pressure remains unchanged. Use the exchange cartridge type 2116 for repair of the pressure relief valve. The stainless steel seat can also be replaced, if required. The pressure reducer cartridge can be cleaned or exchanged without having to disassemble the whole device from the pipe.





Mixing valve (only 324.3)

5

Nominal size	DN 15
	G 1/2
	G 1
Dimensions in mm	
	A
	L (mm)
	T (mm)
	H (mm)
	h (mm)
	M (mm)

Models

Type 324: opening pressure 6 bar
 Type 324.3: opening pressure 6 bar with thermostatical mixing valve type 703

Accessories

Manometer: 0010.08.500



Safety Assembly 324

Components / Order numbers

①
Warm water connection
0323.15.900

②
Cold water connection
0323.15.901

③
Isolating unit
0323.15.906

④
Exchange cartridge
2116.20.006

⑤
Siphon
0319.25.900

⑥
Mixing valve (only 324.3)
Type 703

⑦
Pressure reducer cartridge
0314.15.902

⑧
Pressure reducing valve
0314.15.004

⑨
**Assembly key for exchange
of head part**
4807.00.906
max. torque 15 Nm

