Regulus

www.regulus.eu

Safety Kit

Installation and Operation Manual
Safety Kit for Hot Water Storage Tanks

EN

Safety Kit

Description

The safety kit is used to protect the hot water storage tank from exceeding the maximum working pressure, to test the function of the check valve and to drain the DHW tank. The set contains all the elements for pressure protection of the DHW tank prescribed by the valid EN 1488 standard, i.e.:

- safety valve,
- check valve,
- test valve to verify the function of the check valve,
- drain valve,
- pressure gauge,
- shut-off valve at cold water supply to the HW storage tank.

The safety valve protects the HW storage tank from exceeding the maximum working pressure. The check valve prevents water from flowing back into the water mains. The ball valve allows to test the function of the check valve or to close the water supply and subsequently drain the tank via the drain valve. The safety kit allows the connection of an expansion vessel - the inlet G 3/4 “M for the connection of the expansion vessel is located opposite the inlet for the connection of the pressure gauge and is plugged by a lid from the factory.

Installation

The safety kit installs on the cold water supply pipe upstream of the HW storage tank; if necessary, the pressure gauge can be connected to the opposite inlet which will result in a mirror variant of the kit; no shut-off valve, check valve or filter shall be installed between the HW storage tank and the safety kit; it is necessary to ensure free flow of fluid from the safety and drain valves.

Function Check

Turn the safety valve knob once a year to check its function. At least once a year, close the inlet ball valve and open the valve designed to test the function of the check valve. The check valve is OK if no fluid under pressure is flowing out of the test valve.
When checking the safety valve, checking the function of the check valve and when draining the tank, very hot water may come out of the product - risk of scalding.

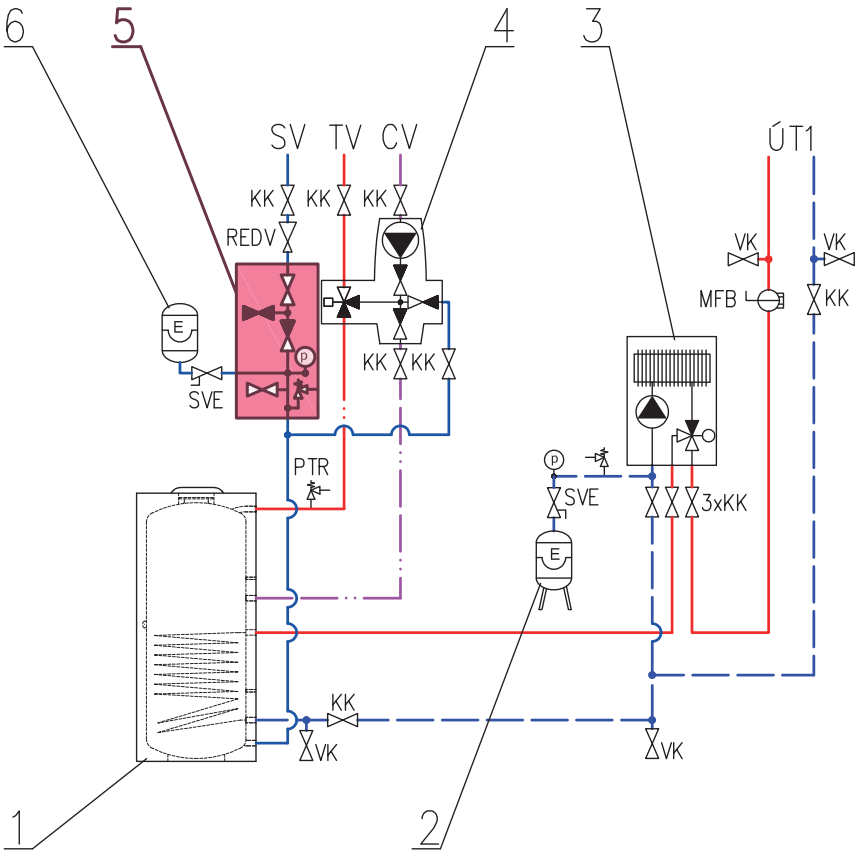
Working fluid	drinking water
Max. working temperature	80 °C

Kit codes								
Code	**Safety valve set pressure**	**Safety valve thread***	**Safety valve seat cross section**	**Discharge coefficient**	**Kit total weight**	**Max. output of water heater***	**Max. volume of water heater***	**Connecting size**
17387	6 bar	G 1/2" F-M	132.73 mm^2	0,3	870 g	75 kW	200 l	G 3/4" F x G 3/4" M
18272	7 bar							
18288	8 bar							
18274	10 bar							
17696	6 bar	G 3/4" F-M	226.98 mm^2	0,3	1135 g	150 kW	1000 l	G 1" F x G 1" M
18273	7 bar							
18287	8 bar							
18275	10 bar							

** Following the EN 1488 standard.*

Materials	
Safety kit and ball valve housing	brass CW617N
Check valve housing and cone	POM Hostaform
Check valve spring	AISI 302
Gasket	EPDM

Diagram of Safety Kit Connection to Hot Water Storage Tank



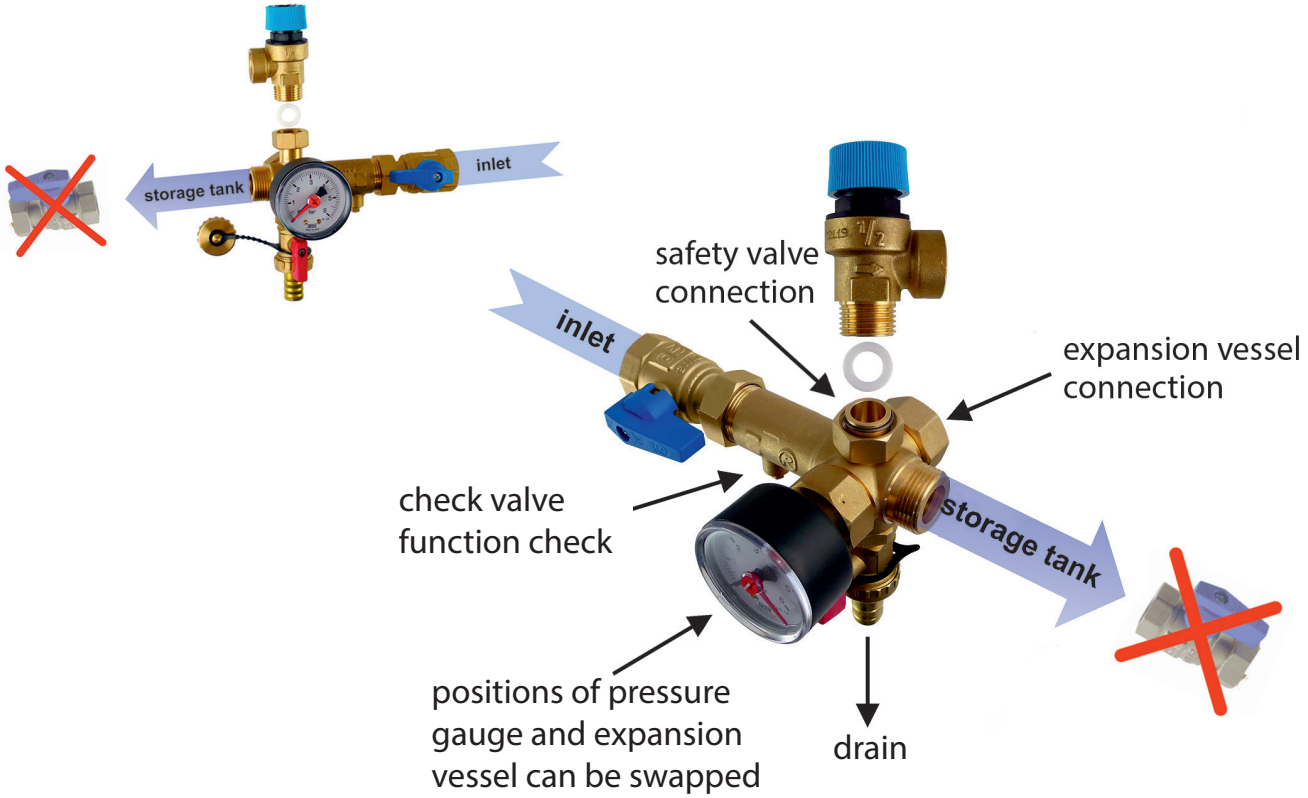
KEY

1 – hot water storage tank
2 – heating system expansion vessel
3 – boiler (natural gas, electric...)
4 – pump station for DHW recirculation – CSE TVMIX ZV
5 – safety kit for HW storage tank
6 – DHW expansion vessel

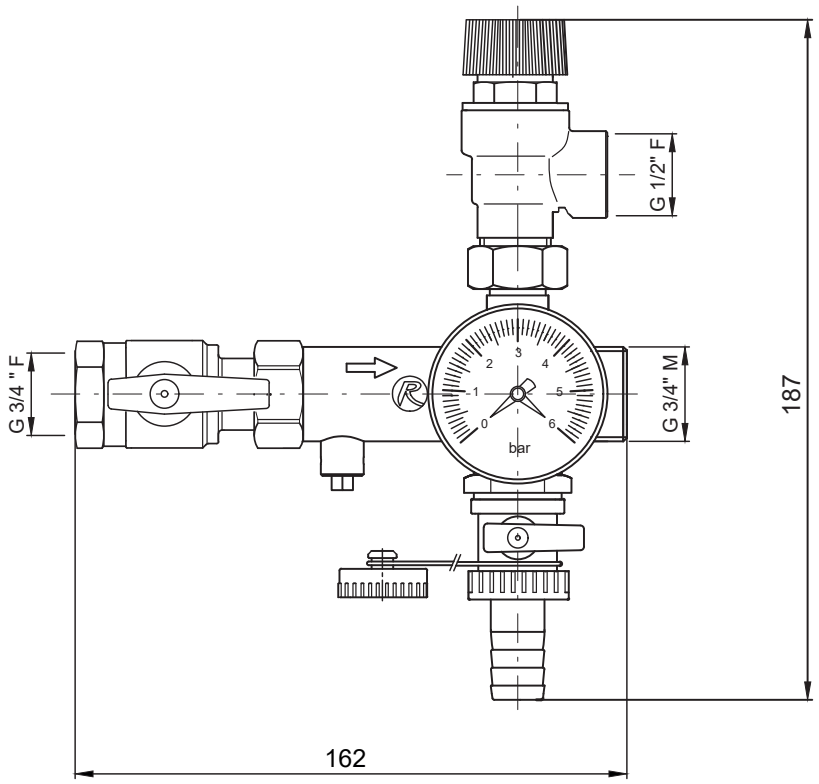
SV – cold water
TV – hot water
CV – hot water recirculation
ÚT – central heating (heating system)

KK – ball valve
ZV – check valve
AOV – automatic air vent valve
PTR – pressure temperature relief valve
REDV – pressure reducing valve (optional)
VK – drain valve
SVE – expansion vessel service valve
PV-ÚT – safety valve for heating system
MFB – Magnet Filterball

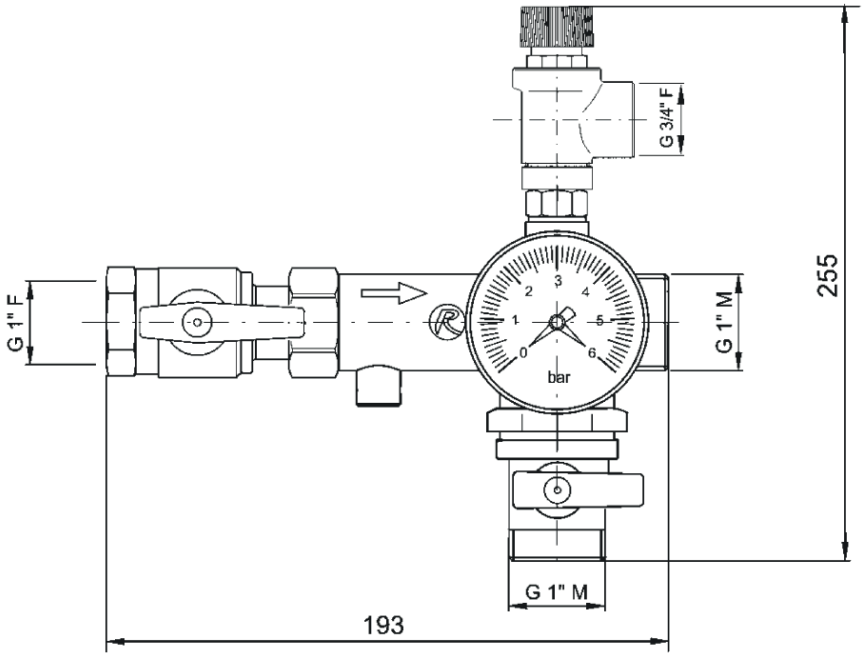
Description of Connection



Dimensions of an assembled kit for a HW storage tank up to 200 l, G 3/4″ F/M



Dimensions of an assembled kit for a HW storage tank up to 1000 l, G 1″ F/M



REGULUS spol. s r.o.
E-mail: sales@regulus.eu
Web: www.regulus.eu