

DBV1 Thermal Safety Relief Valve, insulated



Main Features	
Application	protection against overheating of a solid-fuel fired heat source w. no cooling heat exchanger
Function	feed and bleed valves are controlled by a thermostatic element; when the limit temperature is reached, both the valves open simultaneously; the bleed valve permits exit of overheated water from the heat source to sewer, the feed valve opens water inlet from the mains; when the temperature drops below the limit value, both the valves close
Working fluid	water, antifreeze fluid for heating systems
Installation ^{1), 2)}	vertical or horizontal, as close to an outlet from a heat source as possible, insulation can be fitted or removed even after the valve is installed

- 1) when installed horizontally, the hot heating fluid outlet shall point downwards
2) when installed vertically, the head shall not point downward

Codes	
16912	DBV1, insulated
16913	DBV1 with T-piece, insulated

Technical data	
Nominal diameter	DN 20
Pipe connection	G 3/4" M
Connection to heat source	R 3/4" M (tapered)
Min. diameter of connected piping	DN 16
Nominal pressure	PN 6
Heating fluid max. working pressure	4 bar
Cold water max. working pressure	6 bar
Fluid max. working pressure	110 °C
Valve opening temperature	97 ± 2 °C
Max. cooling capacity*	190 kW
Kvs at temp. of 110°C	1.8 m ³ /h

Weight	
DBV1 and insulation	0.68 kg
DBV1, T-piece, insulation	1.12 kg

Materials	
Valve housing	forged brass
Valve gate	forged brass
Valve head	nylon
Sealing O-rings	EPDM
T-piece	brass
Insulation	EPP RG 60 g/l

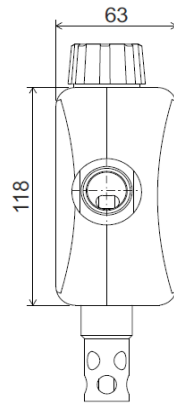
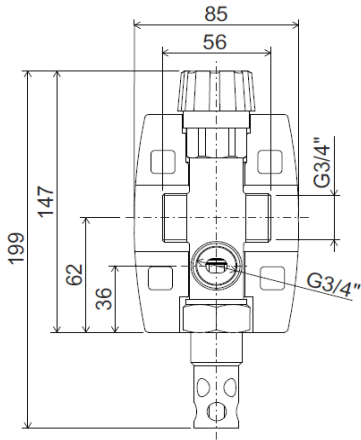
Thermal Safety Relief Valve must not be used to replace a heat source safety valve.

* under these cooling water parameters, before the valve: 2 bar pressure, 15°C temperature

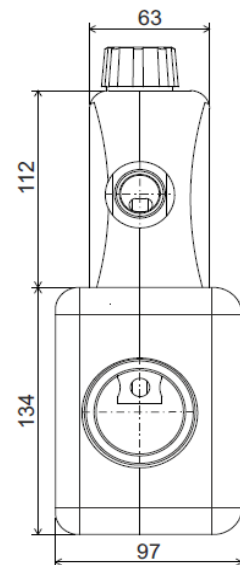
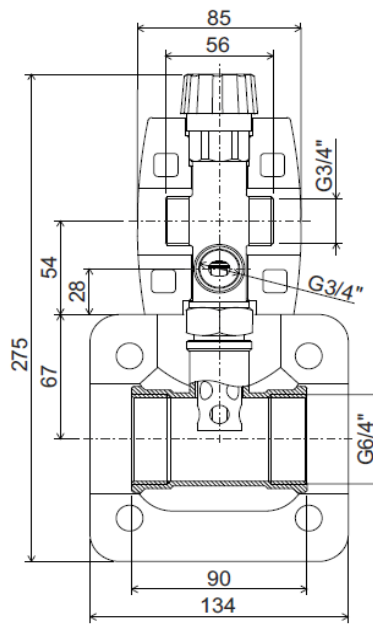
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Dimensions

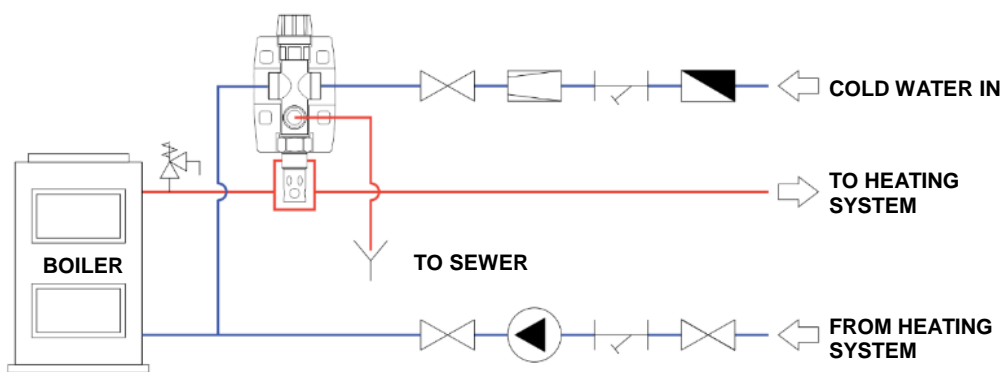
DBV1, insulated



DBV1 with T-piece, insulated



Connection diagram



KEY

- 1) shut-off valve
- 2) pressure reducing valve
- 3) strainer
- 4) check valve
- 5) pump
- 6) safety valve

Before the assembly is finished, each valve gets its serial number and is tested. During testing a pressure test is performed, tightness of all its O-rings is verified as well as simultaneous opening of both the sections, the value of the opening temperature and stroke. The course of the test is recorded.