

DATA SHEET

DBV1 Thermal Safety Relief Valve, insulated

DBV1 insulated





DBV1 with T-piece, 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.
Instalation ^{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.
Codes	16912 – DBV1, insulated 16913 – DBV1 with T-piece, insulated

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

Technical Data	
Nominal diameter	DN 20
Pipe connection	G 3/4" outer
Connection to heat source	R 3/4" outer (conical)
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 temperature	110 °C
Valve opening temperature	97 ± 2 °C
Max. cooling capacity*)	190 kW
K _{vs} at temperature of 110°C	1,8 m³/h

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

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

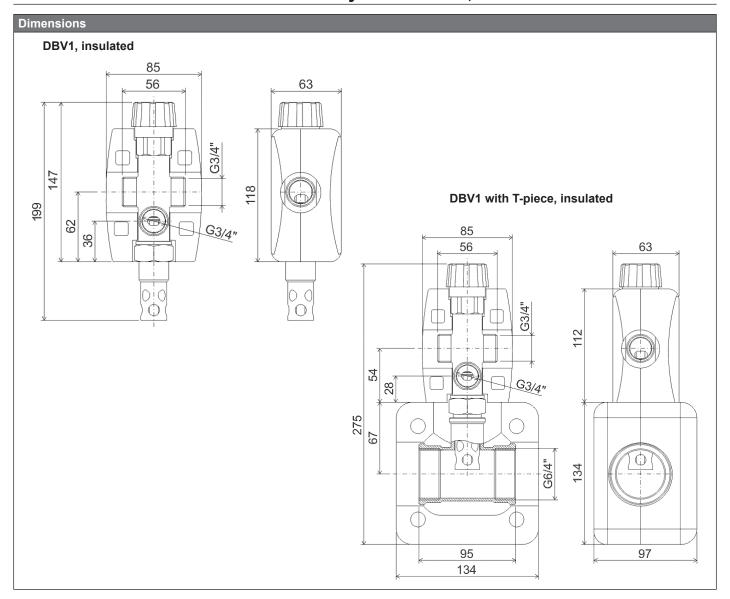
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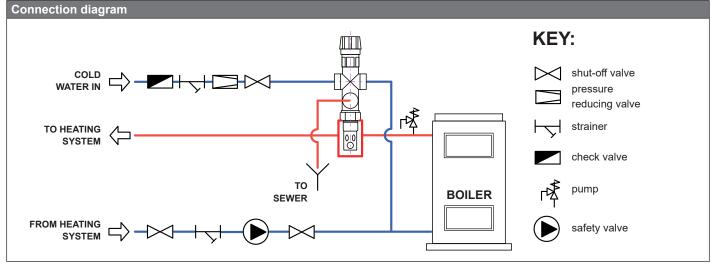
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Before the assembly is finished, each valve gets its serial number and is tested. During testing a pressure test is performed, tightness of all its O-rings is verified as well as simultaneous opening of both the sections, the value of the opening temperature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