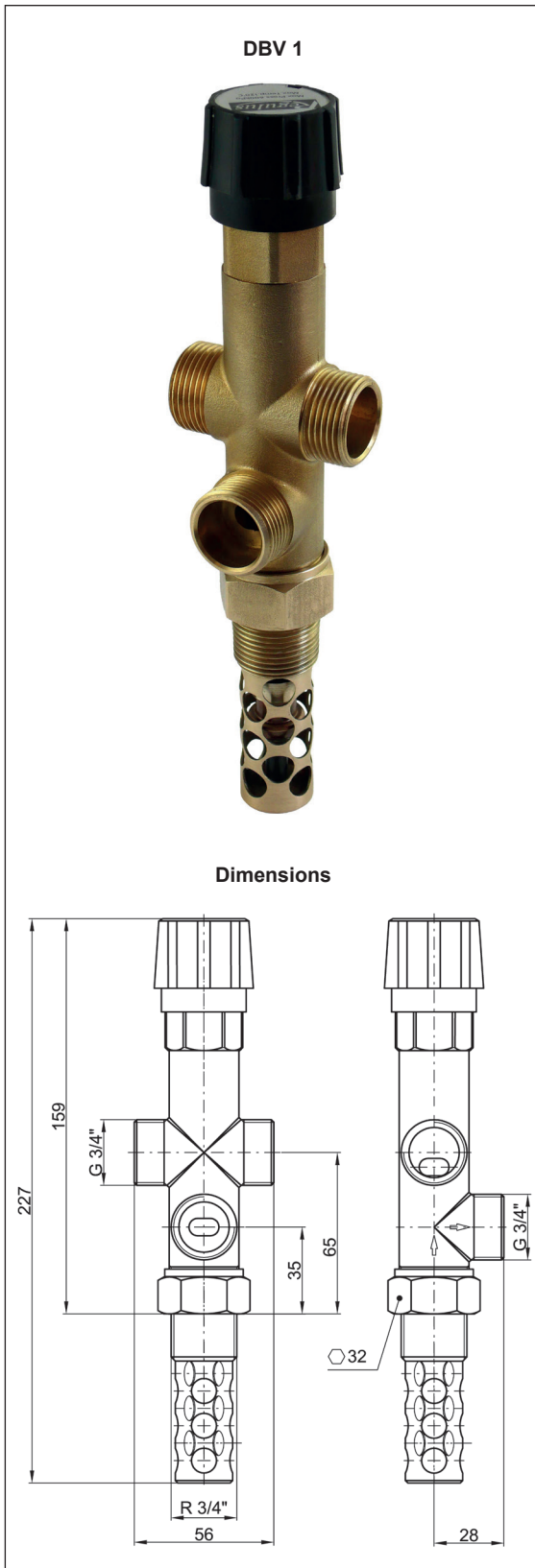


## DATA SHEET

### DBV 2 Thermal Safety Relief Valve



Main Features	
Application	Protection against overheating of a solid-fueled heat source w. no cooling heat. exchanger.
Description	Heat source protection against overheating.
Function	Feed and bleed valves are controlled by two independent thermostatic elements; 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; water-glycol mixture (max. 1:1).
Installation <sup>1), 2)</sup>	Vertical or horizontal, as close to an outlet from a heat source as possible.
Code	<b>14043</b>

- 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*) (stroke of both elements)	220 kW
Max. cooling capacity*) (stroke of one element)	140 kW
K <sub>vs</sub> at temp. of 110 °C (stroke of both elements)	2 m <sup>3</sup> /h
K <sub>vs</sub> at temp. of 110 °C (stroke of one element)	1.3 m <sup>3</sup> /h
Weight	0.70 kg

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

Materials	
Valve housing	forged brass
Valve gate	forged brass
Valve head	nylon
Sealing O-rings	EPDM

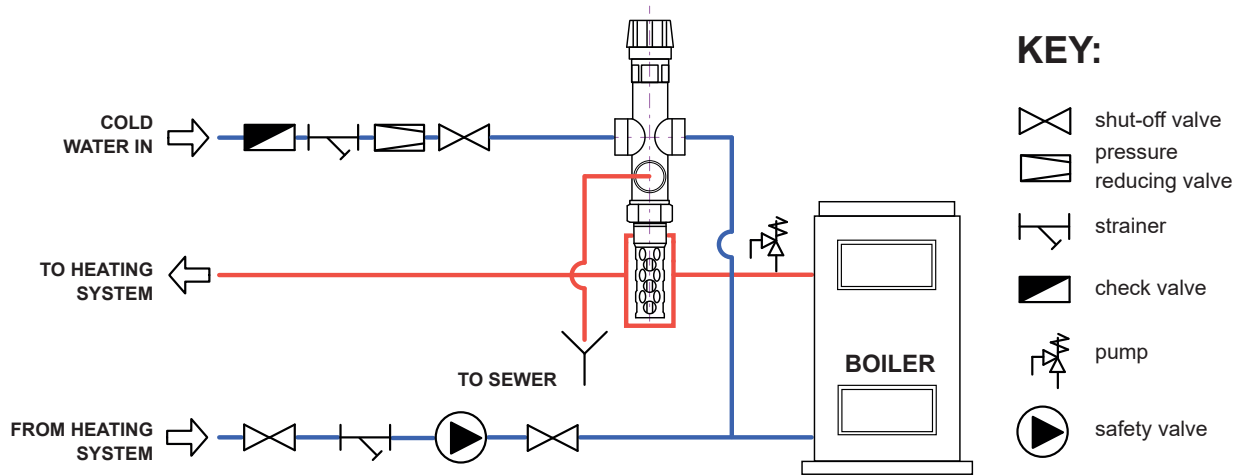
The valve is approved in compliance with the Directive 97/23/EC (PED) and meets the requirements for a device for dissipating excess heat by Art. 4.3.8.4 EN 303-5:2012. This is a STW device of Th type by EN 14597:2012. According to EN 303-5:2012, the valve is intended for boilers of max. 500 kW output, with up to 100 kW cooled output.

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

## DATA SHEET

### DBV 2 Thermal Safety Relief Valve

#### Schéma zapojení



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.