

Thermal Safety Relief Valve, BVTS Model

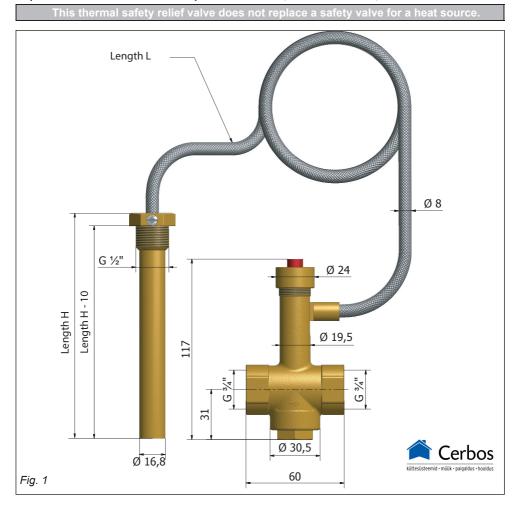
Application

BVTS thermal safety relief valve is designed to protect solid fuel boilers from overheating. It dissipates heat from a boiler recooling heat exchanger by opening its cold water inlet which protects boiler from overheating.

Other application of BVTS is for flooding a pellet feeder with water before pellets ignite in the storage bin.

The valve is fitted with 2 temperature sensors. Should one fail, the other shall ensure proper operation of the valve.

The valve meets the requirements set by the Pressure Equipment Directive (PED) 97/23/ EC and EN 14597. It is a STW device of Th type as defined by EN 14597, so it fulfils the requirements for a device to dissipate excess heat, as of Art. 4.3.8.4, EN 303-5.



EN

DN 20	
G 3/4" F	
G 1/2" M	
PN 10	
6 bar	
10 bar	
0 to 80 °C	
6 °C	
2.6 m ³ /h	
	G 3/4" F G 1/2" M PN 10 6 bar 10 bar 0 to 80 °C 6 °C

Materials:

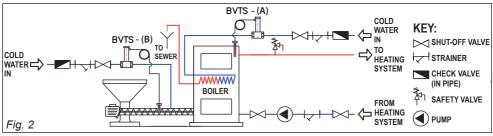
materials.	
Valve body	forged, in brass
Metal parts	forged, in brass
Spring	stainless steel
Sensor	copper
Capillary tube	copper
Sheath	brass
Activation push button	ABS
O-rings and sealing inserts	EPDM, NBR

Installation

The valve shall be installed as close to a boiler as possible, and its sensor shall be placed at the hottest spot, see Fig. 2 BTVS - (A). The valve shall be installed at a fuel feeder, and the sensor shall be placed inside the fuel feeder, see Fig. 2 BTVS - (B). The valve may be installed in any position. Prior to installed in the system shall be free of

Prior to installation, the system shall be free of dirt that could jam the valve seat and cause a failure. The flow direction is indicated

by the arrow on the valve body. The inlet water pressure to valve shall follow the recommendation of the boiler manufacturer. A strainer shall be installed upstream of the valve, see Fig. 2. Max. tightening torque for the sheath is 30 Nm. After installation, proper functioning of the valve shall be checked.



Maintenance

Check once a year that the valve works properly. This function check is performed manually, namely by pressing the red push button that opens flow through the valve. **The nut holding the red push button shall be neither tightened nor loosened!**

Check and clean the strainer at the cooling water inlet at least once a year.

BVTS Thermal Safety Relief Valve with opening temperatures:

Code:	Opening tem- perature:	Max. sensor temperature:	Length L	Length H	Code:	Opening temperature:	Max. sensor temperature:	Length L	Length H
14473	50 ± 2 °C	75 °C	1.3 m	140 mm	14478	95 ±2 °C	125 °C	4.0 m	140 mm
14474	55 ± 2 °C	80 °C	1.3 m	140 mm	14479	95 ±2 °C	125 °C	1.3 m	140 mm
14475	65 ±2 °C	90 °C	1.3 m	140 mm	14480	97 ±2 °C	125 °C	1.3 m	140 mm
14643	65 ±2 °C	90 °C	1.3 m	160 mm	14481	100 ±2 °C	125 °C	1.3 m	140 mm
14476	70 ±2 °C	95 °C	1.3 m	140 mm	14482	100 ±2 °C	125 °C	1.3 m	220 mm
14477	95 ±2 °C	125 °C	1.3 m	140 mm	14483	108 ±2 °C	133 °C	1.3 m	140 mm





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