

DATA SHEET

BVTS Thermostatic Valve, nickel-plated

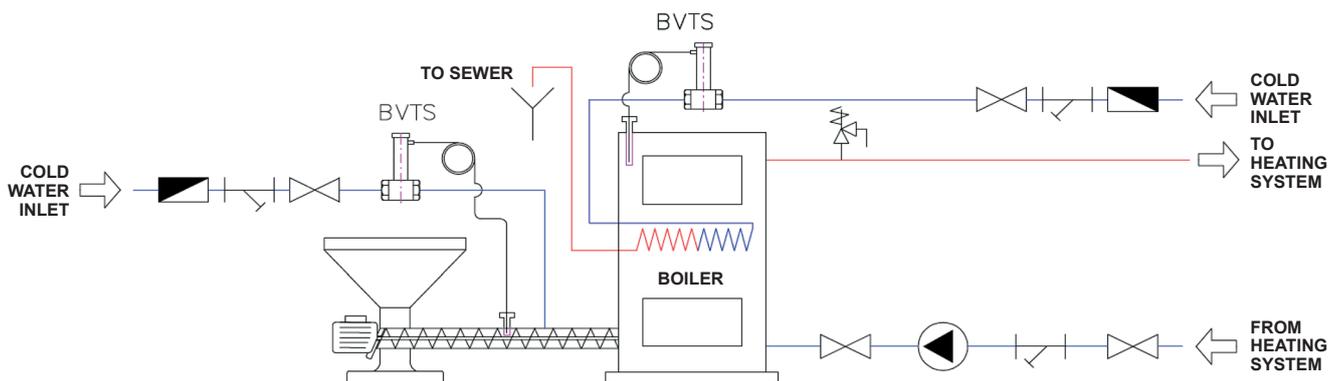


Main Features

Application	Solid-fuel boiler protection from overheating.
Purpose	By opening cold water inlet, it prevents boiler overheating by discharging heat from a recooling heat exchanger in case of emergency; it also prevents backburning in a biomass fuel store by flooding the fuel (see the valve connection diagram).
Working fluid	Water.
Installation position	Can be installed in any location; the sensor shall be located in the hottest place.
Valve function	Automatic operation depending on the sensor temperature.
Opening temperature	The opening temperature depends on the valve type (see the table on page 2).
Valve adjustment	The valve is factory adjusted; no user adjustments possible.
Valve opening	When the temperature at sensor increases the pressure inside the sensor grows and is transferred to the valve pin via the capillary tube and bellows; when the opening temperature is reached, the pressure in bellows exceeds the spring load so the pin lifts up and the valve opens. For manual opening, the valve is fitted with an activation button.
Code	14713

The valve meets the requirements set by the Pressure Equipment Directive (PED) 97/23/EC and EN 14597. Its design fulfils the requirements for a device to dissipate excess heat, as of Art. 4.3.8.4, EN 303-5. This is a STW device, Th type, according to EN 14597:2012.

Position of the valve in the system



LEGEND:

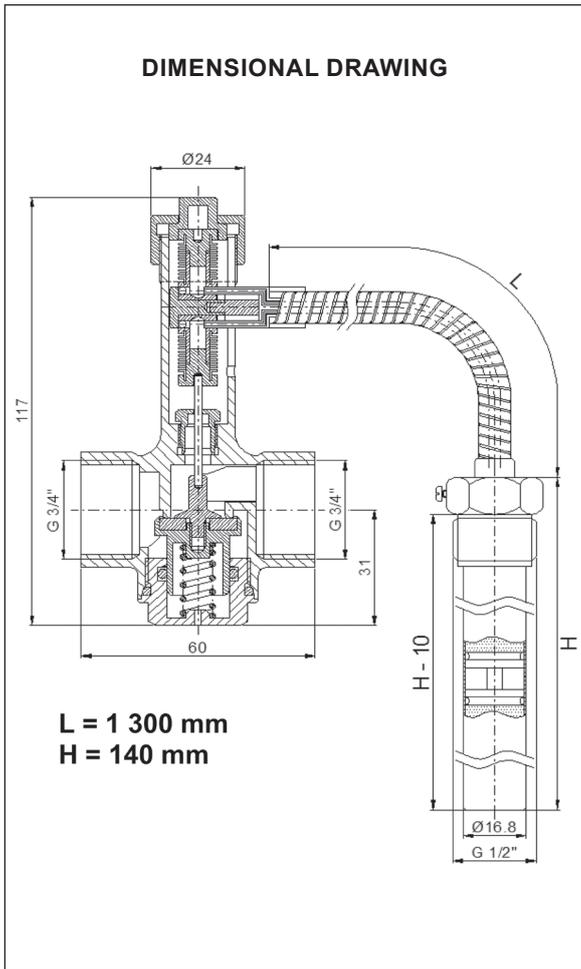


Before the assembly is finished, the opening temperature is set for each valve and the valve is tested. During the test the valve is tested for pressure, leaks and the opening temperature.

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

DATA SHEET

BVTS Thermostatic Valve, nickel-plated



Technical Data

Nominal diameter	DN 20
Pipe connection	internal thread G 3/4"
Connection to heat source	external thread G 1/2"
Nominal pressure	PN 10
Heating fluid max. working pressure	6 bar
Cooling water max. working pressure	10 bar
Max. cooling water pressure after the valve	half of the input pressure value
Valve opening temperature	97 °C ± 2 °C
Working temperature of cooling water	5 to 110 °C
Sensor working temperature	0 to 125 °C
Ambient temperature	0 to 80 °C
Hysteresis	6 °C
K _{vs} at the opening temp. t _{OT} + 13 °C	2.6 m ³ /h
Weight	0.7 kg
Capillary version	fixed

Materials

Valve body, outer metal parts	forged brass, nickel-plated
Inner metal parts	forged brass
Spring	stainless steel
Sensor	copper
Capillary tube	copper
Sheath	brass, nickel-plated
Activation push button	ABS
O-rings and sealing inserts	EPDM, NBR