

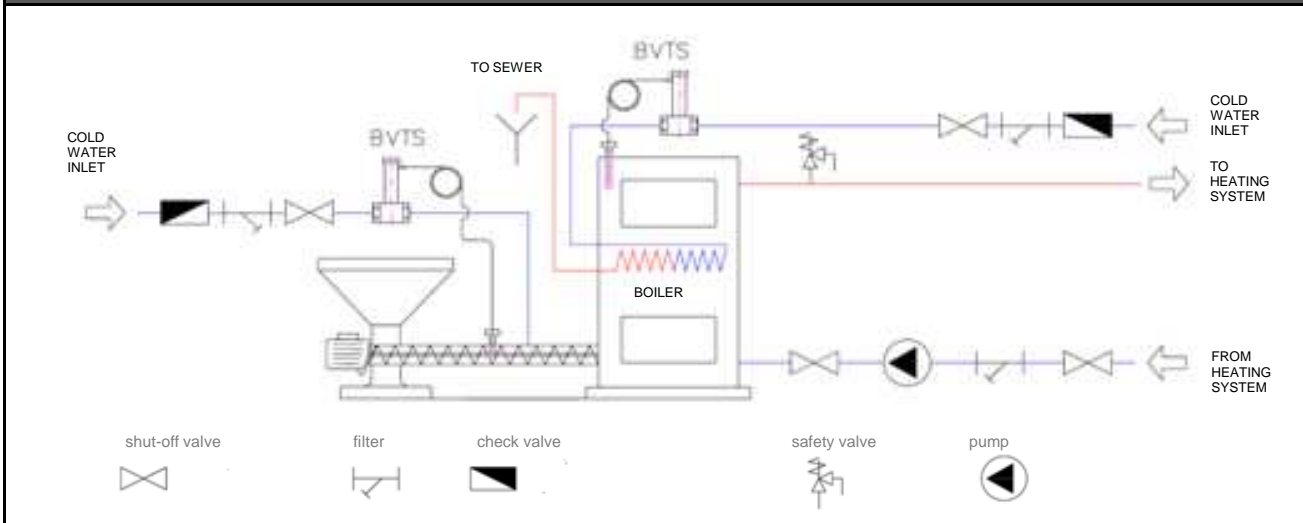
BVTS Thermostatic Valve, nickel-plated



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 position; the sensor shall be located in the hottest place
Installation position	automatic operation depending on the sensor temperature
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	14 713

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.

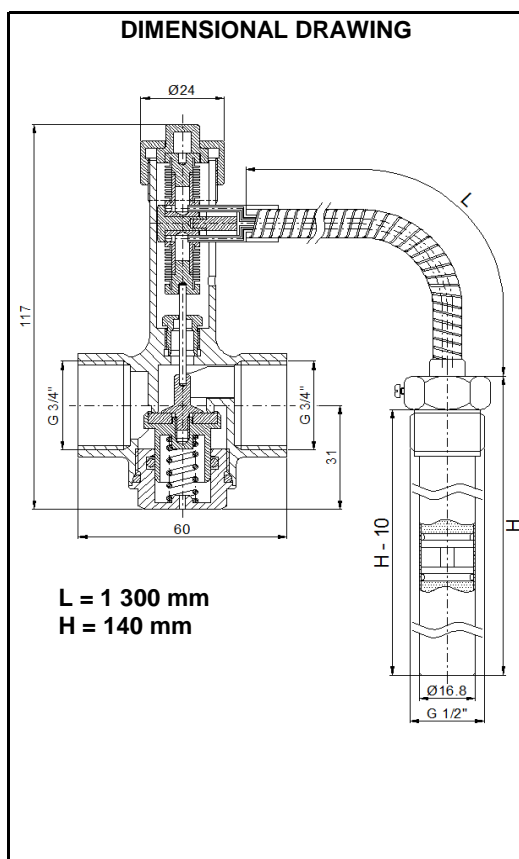
Position of the valve in the systém



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.

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Technical data	
Nominal diameter	DN 20
Pipe connection	G 3/4" F
Connection to heat source	G 1/2" M
Nominal pressure	PN 10
Heating fluid max. working pressure	6 bar
Cooling water max. working pressure	10 bar
Valve opening temperature	97 °C ± 2 °C
Max. sensor temperature	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
Capillaryversion	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