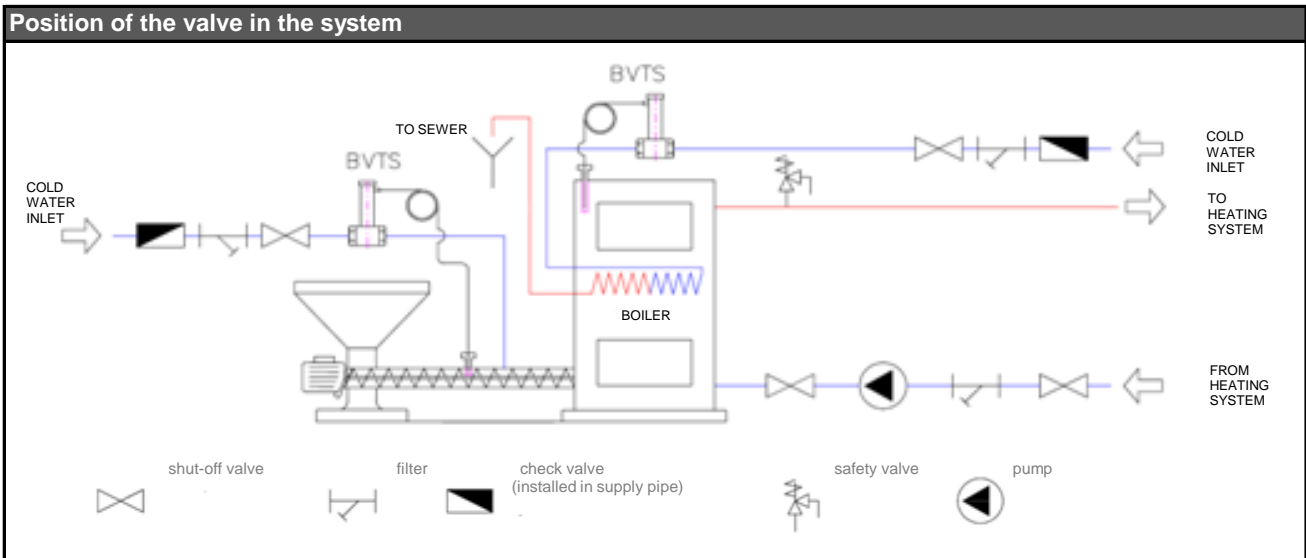


BVTS Thermostatic Valve

<p style="text-align: center;">BVTS</p>	<p>Main features</p>																
	<table border="1"> <tr> <td>Application</td> <td>solid-fuel boiler protection from overheating</td> </tr> <tr> <td>Purpose</td> <td>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)</td> </tr> <tr> <td>Working fluid</td> <td>water</td> </tr> <tr> <td>Installation position</td> <td>can be installed in any position; the sensor shall be located in the hottest place</td> </tr> <tr> <td>Valve function</td> <td>automatic operation depending on the sensor temperature</td> </tr> <tr> <td>Opening temperature</td> <td>the opening temperature depends on the valve type (see the table on page 2)</td> </tr> <tr> <td>Valve adjustment</td> <td>the valve is factory adjusted; no user adjustments possible</td> </tr> <tr> <td>Valve opening</td> <td>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.</td> </tr> </table>	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	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.
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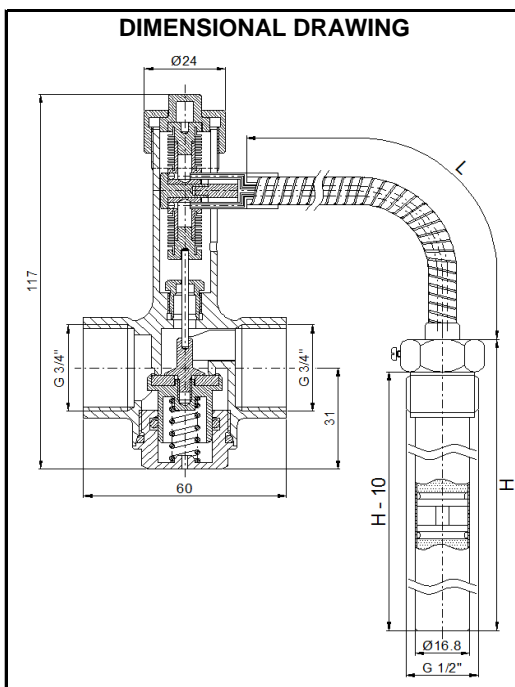
The valve meets the requirements set by the Pressure Equipment Directive (PED) 97/23/EC and EN 14597. Its design fulfils the requirements for a device to dissipate excess heat, as of Art. 4.3.8.4, EN 303-5. This is a STW device, Th type, according to EN 14597:2012.



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.

BVTS Thermostatic Valve



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
Ambient temperature	0 to 80 °C
Hysteresis	6 °C
Kvs at the opening temp. $t_{OT} + 13$ °C	2.6 m ³ /h

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

Type BVTS	L [mm]	H [mm]	Valve opening temp. $t \pm 2$ °C [°C]	Max. sensor temp. [°C]	Capillary version [-]	Weight [kg]	Code
050-R130-P14	1 300	140	50	75	removable	0,7	14473
055-F130-P14	1 300	140	55	80	fixed	0,7	14474
065-F130-P14	1 300	140	65	90	fixed	0,7	14475
065-F130-P16	1 300	160	65	90	fixed	0,7	14643
070-F130-P14	1 300	140	70	95	fixed	0,7	14476
095-F130-P14	1 300	140	95	125	fixed	0,7	14477
095-F400-P14	4 000	140	95	125	fixed	1,0	14478
095-R130-P14	1 300	140	95	125	removable	0,7	14479
097-F130-P14	1 300	140	97	125	fixed	0,7	14480
100-R130-P14	1 300	140	100	125	removable	0,7	14481
100-R130-P22	1 300	220	100	125	removable	0,7	14482
108-F130-P14	1 300	140	108	133	fixed	0,7	14483