

Data sheet

Thermostatic mixing valve TVM-H

Description



TVM-H limits and maintains constant level of mixing temperature in heating applications. The thermostatic mixing valve ensures a constant temperature of the mixed water at the outlet.

Advantages

- Constant temperature of the water at the outlet
- Variable setting of the nominal temperature range: 30 \dots 70 °C
- Special design with anti-scalding coating
- System components: accessories and spare parts

Standard design

A thermostatic cartridge and a return spring ensure the constant blend temperature at the outlet.

Thanks to the design of the mixing valve, the thermostatic cartridge can be easily replaced in the installed valve if the performance decreases, which occurs due to normal wear and tear.

Ordering

DN	G	Temperature range (°C)	E 1) (l/min)	k _{vs} 1 ²⁾	k _{vs} 2 ³)	Code No.
TVM-H 20	1"	30 70	39	1.9	1.65	003Z1120
TVM-H 25	11/4"	30 70	61	3.0	2.6	003Z1127

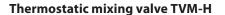
¹⁾ E = extracted (outlet) quantity at $\Delta p = 1.5$ bar

Accessories and spare parts

Accessories and spare parts						
Typew	Max. pressure (bar)	Max. temperature (°C)	Code No.			
Non-return valve DN 20	10	95	003Z3130			
Non-return valve DN 25	10	95	003Z3131			
Thermostatic 6	003Z3132					
Fitting set DN	003Z3134					
Fitting set DN	003Z3135					

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 $^{^{2)}} k_{VS}1 = without check valve$ $^{3)} k_{VS}2 = with check valve$



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Technical data

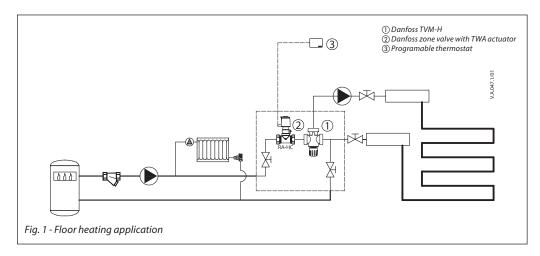
Factory temperature presseting		70			
Cold water supply temperature		10			
Hot water supply temperature		70			
Temperature stability (depend on pressure and temperature)		± 3			
Max. hot water operating temperature		100			
Supply pressure, static (max.)		10			
Supply pressure, dynamic (max.)	bar	5			
Constant inlet pressure diferential 1)		2			
Max. pressure loss ratio		10:1			
Materials					
Body	DZR + antilimescale treatment				
Plastic cap	Polystyrene				
Spring	SS steel 1.4301 (inoxydable)				
Sealing	ng EPDM				

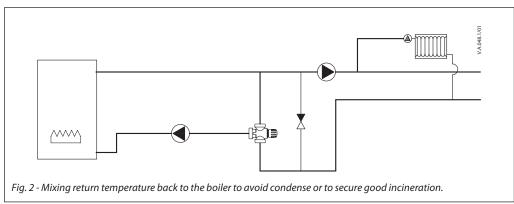
¹⁾ Between cold and worm inlets

Application

Note for fig. 1: Danfoss PACK solution consists of thermostatic mixing valve TVM-H, motorised valve and programable thermostat.

This solution gives excellent temperature control for the under floor heating system up 200 m² (TVM-H DN 25).

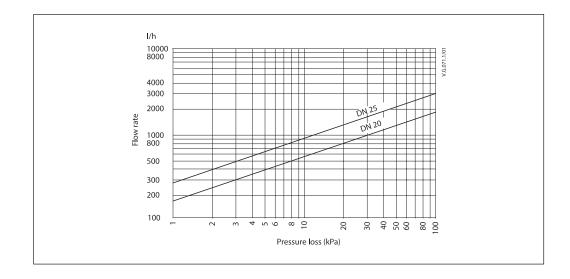




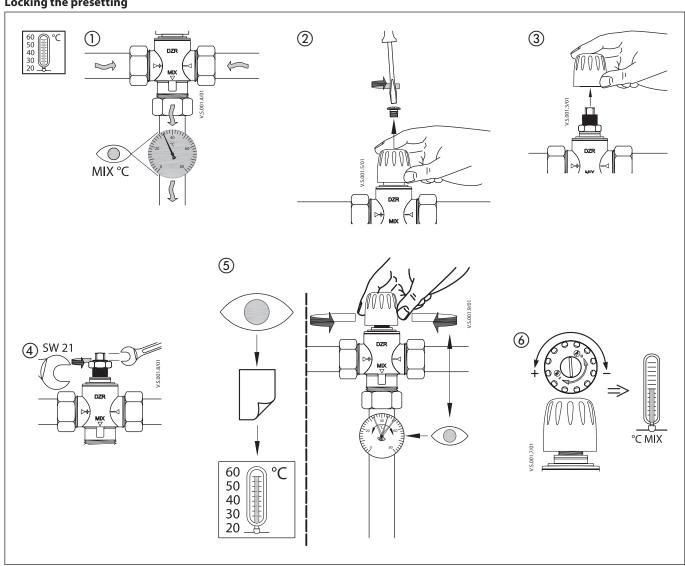
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Pressure diagram



Locking the presetting

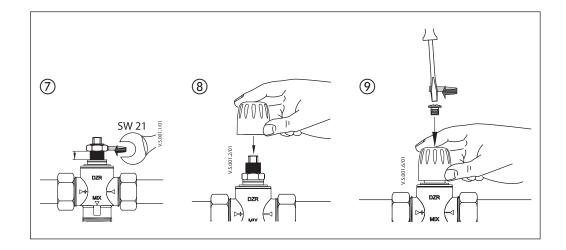


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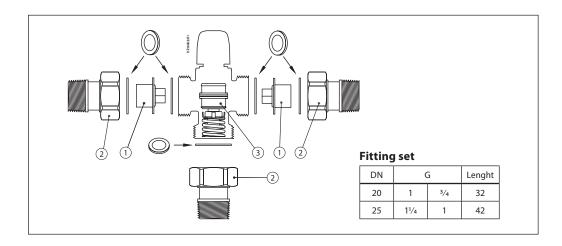
Thermostatic mixing valve TVM-H

Locking the presetting (continuous)

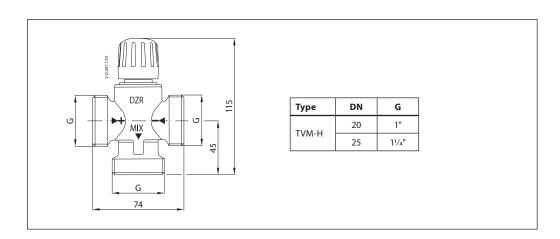


Spare parts

- 1. Non-return valve
- 2. Fitting set
- 3. Thermostatic element



Dimensions



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