

Data sheet

Thermostatic mixing valve TVM-H

Description



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

Advantages

- Constant temperature of the water at the outlet
- Variable setting of the nominal temperature range: 30 ... 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.

TVM-H 25 can also be used in water applications.

You can connect:

Without return valves:

- 3 showers
- 4 sinks
- 2 kitchen/cleaning sinks

With return valves

- 2 showers
- 3 sinks
- 1 kitchen/cleaning sink to TVM-H 25 (003Z1127).

Ordering

DN	G	Temperature range	E ¹⁾	k _{vs1} ²⁾	k _{vs2} ³⁾	Code no.
		(°C)	(l/min)			
TVM-H 20	1"	30 ... 70	39	1.9	1.65	003Z1120
TVM-H 25	1 1/4"	30 ... 70	61	3.0	2.6	003Z1127

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

²⁾ k_{vs1} = without check valve

³⁾ k_{vs2} = with check valve

Accessories and spare parts

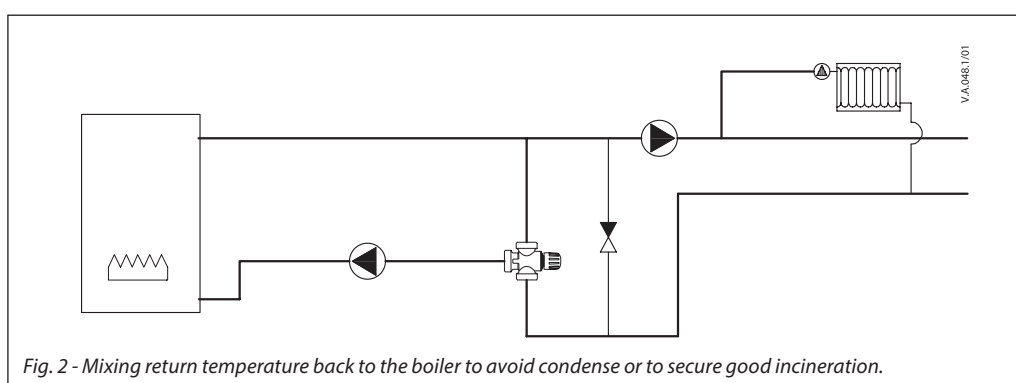
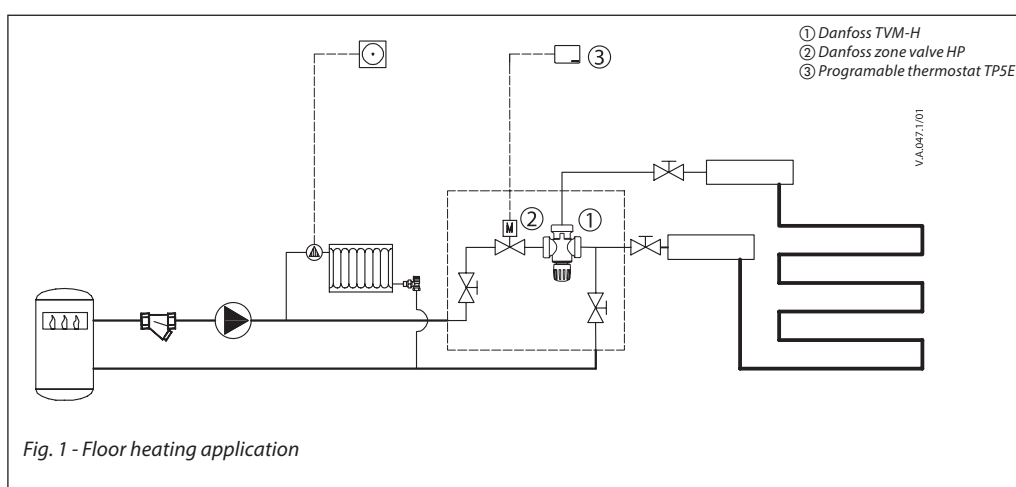
Type	Max. pressure	Max. temperature	Code no.
	(bar)	(°C)	
Non-return valve DN 20	10	95	003Z3130
Non-return valve DN 25	10	95	003Z3131
Thermostatic element			003Z3132
Fitting set DN 20			003Z3134
Fitting set DN 25			003Z3135

Technical data

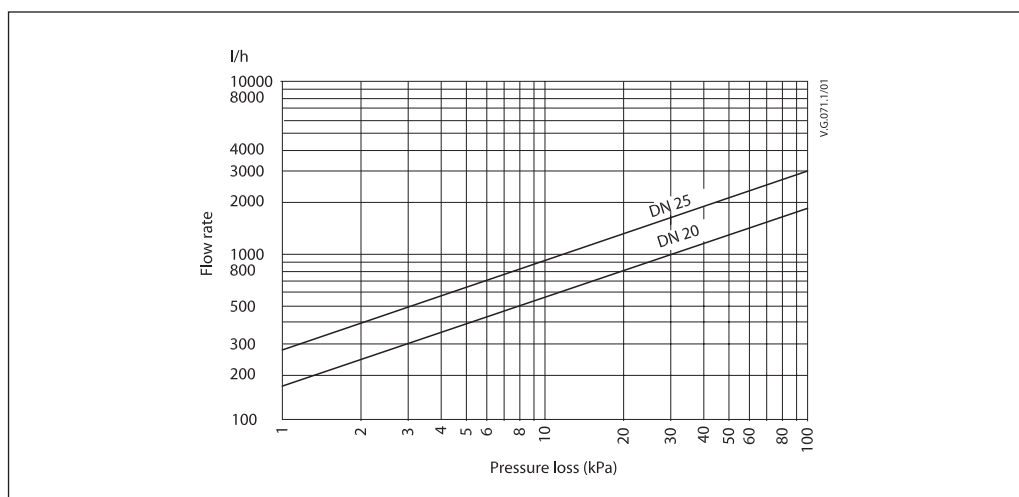
Factory temperature pressetting		70
Cold water supply temperature		10
Hot water supply temperature	°C	70
Temperature stability (depend on pressure and temperature)		± 3
Max. hot water operating temperature		100
Supply pressure, static (max.)	bar	10
Supply pressure, dynamic (max.)	kPa	500
Max. pressure loss ratio		10:1
Materials		
Body	DZR + antilimescale treatment	
Plastic cap	Polystyrene	
Spring	SS steel 1.4301 (inoxydable)	
Sealing	EPDM	

Application

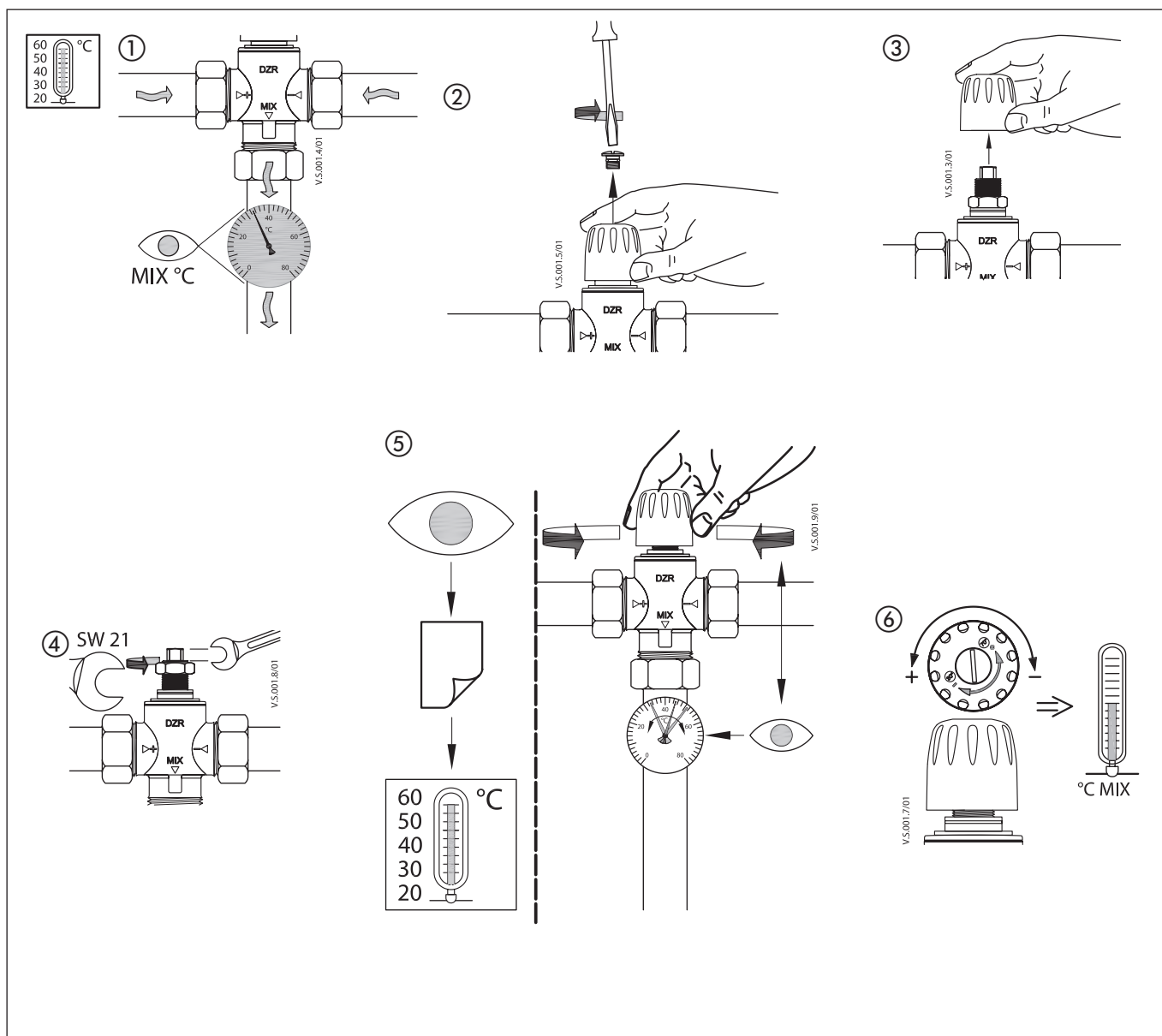
Note for fig. 1:
Danfoss PACK solution consists of
thermostatic mixing valve TVM-H,
motorised valve and programable
thermostat.
This solution gives excellent
temperature control for the under
floor heating system up 200 m²
(TVM-H DN 25) .



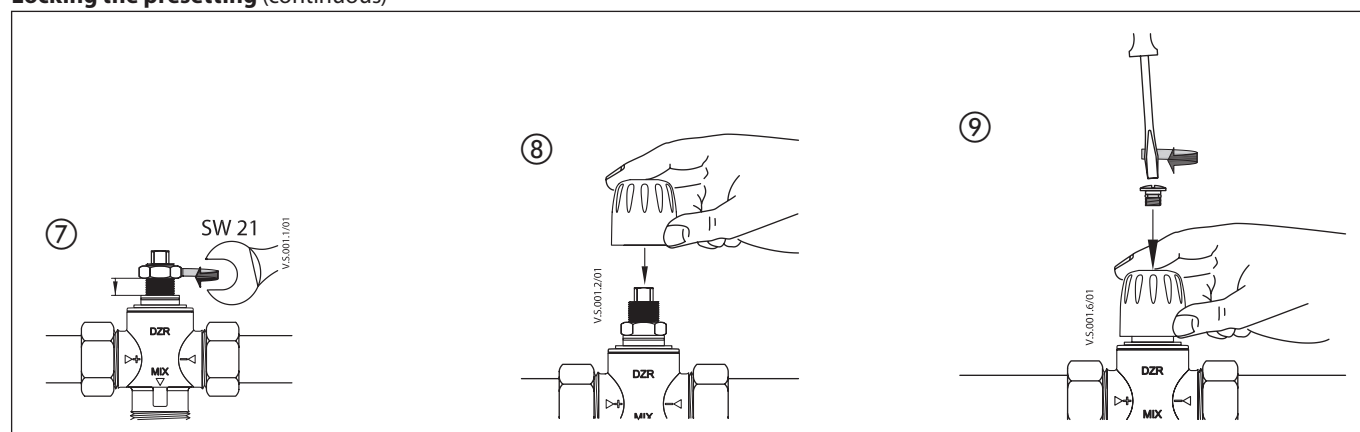
Pressure diagram



Locking the presetting

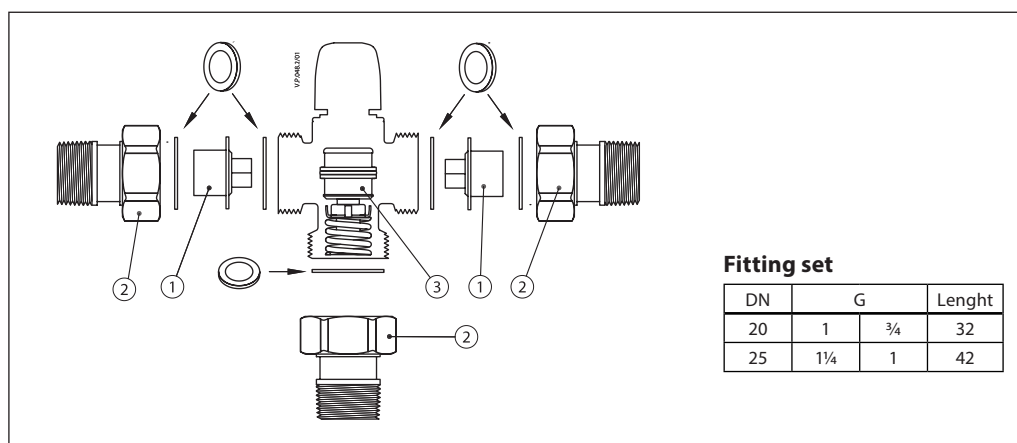


Locking the presetting (continuous)



Spare parts

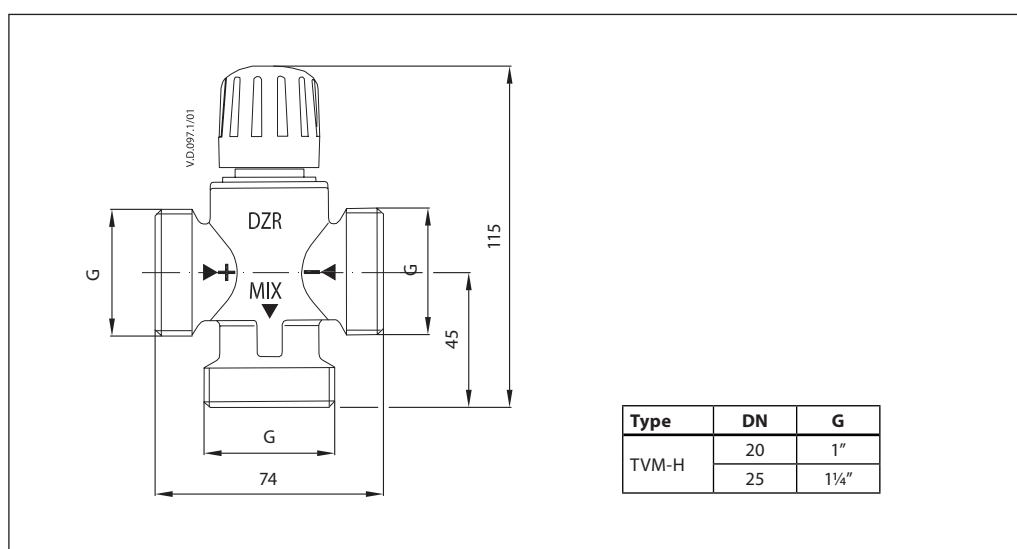
1. Non-return valve
2. Fitting set
3. Thermostatic element



Fitting set

DN	G	Lenght
20	1 3/4	32
25	1 1/4	42

Dimensions



Type	DN	G
TVM-H	20	1"
	25	1 1/4"