Technical Information – TI115 – ESS

Thermostatic Mixing Valve – TMV



BROEN-LAB article number :

17512009	Thermostatic mixing valve, eye- and body shower, 28 mm comp.
17513009	Thermostatic mixing valve, eye- and body shower, R1” male

Product Information:

BROEN-LAB TMVs for eye and body showers are thermostatic mixing valves designed for delivering tepid water (22-28ºC) for eye / hand or body showers.

The water temperature is set to tepid per our factory.

The TMV incorporates in one body the following features:

- Hot-Water Fail Safe:
  - If the cold water is interrupted, the built-in anti-scalding device will automatically cease the flow of hot water.
- Cold Water Fail-Safe:
  - If the hot water is interrupted, the built-in intentional leak* will allow cold water to flow at a sufficient flowrate to ensure operation.
- Includes check valves on both hot and cold supply

*Intentional leak at bigger differential pressure hot/cold than 0,5 bar / 7,3 psi: Cold water only : 2,7 m³ /h / 11,9 US-gpm

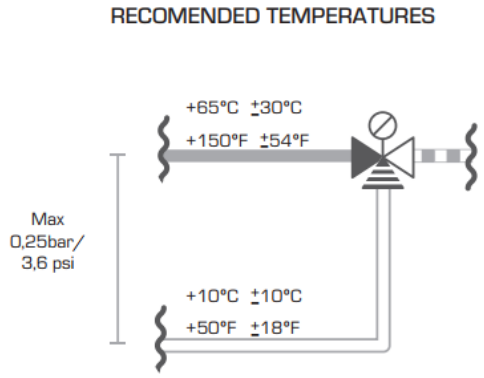
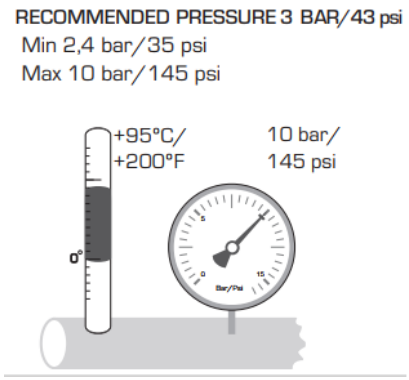
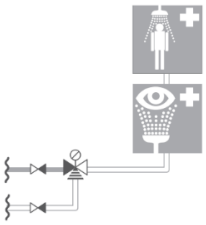
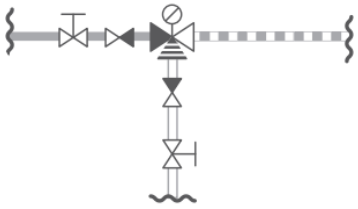
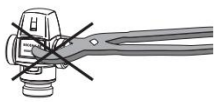
Techncial Data:

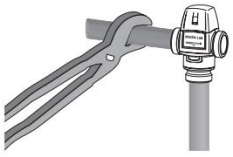
	17512009 / 1713009
Adjustable outlet temperature, approx.	22°C / 72°F to 28°C / 82°F
Kv-value	4,7 m³ /h / 20,7 US-gpm
Min. working pressure:	2,4 bar / 35 psi
Max. working pressure:	10 bar / 145 psi

BROEN-LAB A/S
Drejervænget 2 | DK - 5610 Assens | Denmark
Tel: +45 6376 6376 | Fax: +45 6471 2476
CVR No.: 36454423

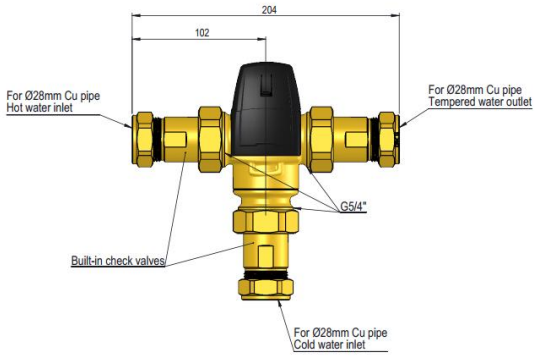
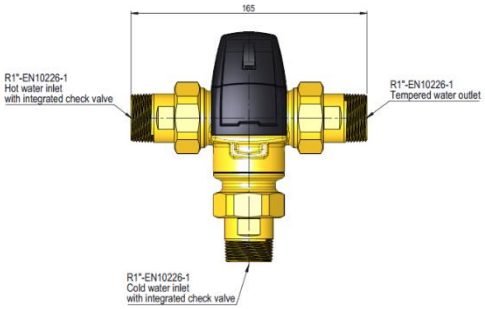
Installation:

All work must be performed by qualified personnel and in accordance with applicable codes and ordinances. Flush the pipes clean, shut off water supply and drain the pipes.

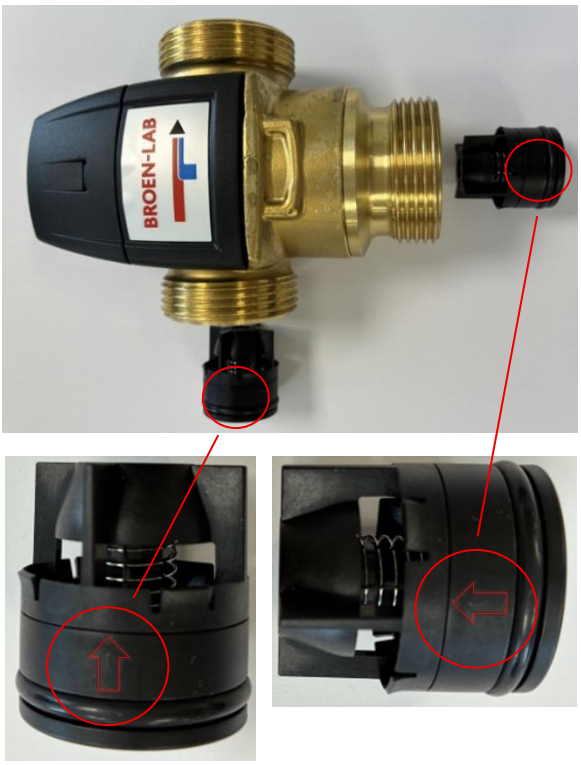
<table>
<tr>
<td>
</td>
<td>
</td>
</tr>
<tr>
<td>When connecting the TMV, please follow the general directions outlined in Fig A, and pay special attention to:</td>
<td>Figure A:
</td>
</tr>
<tr>
<td>• The recommended use of shut-off valves (Fig B)</td>
<td>Figure B:
</td>
</tr>
<tr>
<td>• Installing the valve in a correct manner to avoid damage (Fig. C)</td>
<td>Figure C:


</td>
</tr>
</table>

BROEN-LAB A/S
Drejervænget 2 | DK - 5610 Assens | Denmark
Tel: +45 6376 6376 | Fax: +45 6471 2476
CVR No.: 36454423

17512009	17513009
	





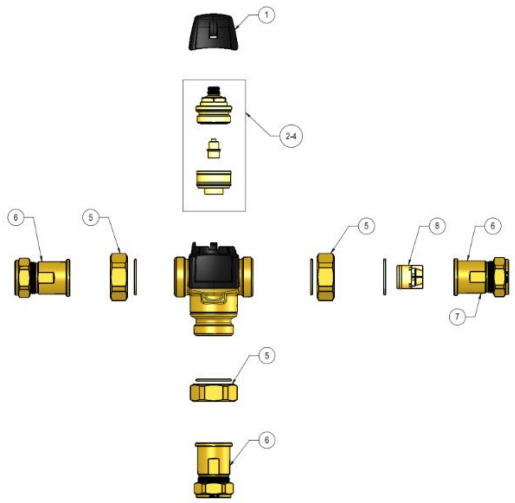
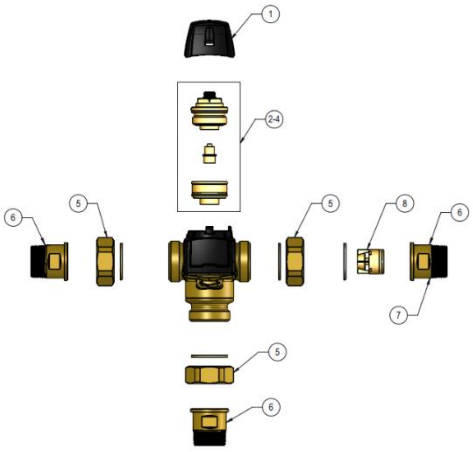
Correct positioning of check valves

Service and manintenance:

Under normal conditions maintenance will not be required. If, however, it should prove necessary, the gasket (O-rings), the sensing element and the valve plug are easily replaced.

BROEN-LAB A/S
Drejervænget 2 | DK - 5610 Assens | Denmark
Tel: +45 6376 6376 | Fax: +45 6471 2476
CVR No.: 36454423

Spareparts:

	17512009	17513009
		
1	Protection cap : **1760016**	
2-4	Complete thermostatic cartridge: **1760017**	
5	G 1 1/4" Union nut incl. flat seal x 3 pcs: **1760018**	
6	Compression 28 mm (No.7) x 3 pcs. plus check valve (No.8) x 2 pcs: **1760020**	R1" nipple (No. 7) x 3 pcs. plus check valve x (No.8) 2 pcs: **1760019**
7	Compression 28 mm x 1 pcs. plus check valve x 1 pcs: **1760033**	R1" nipple x 1 pcs. plus check valve x 1 pcs: **1760032**
8	Gasket + Check valve: **1760031**	

JFR/NSC 04-09-2026 Rev. 01

BROEN-LAB A/S
Drejervænget 2 | DK - 5610 Assens | Denmark
Tel: +45 6376 6376 | Fax: +45 6471 2476
CVR No.: 36454423