Thermostatic Cartridge
Temperature Control Only Type
Model TE mini V

TECHNICAL CHARACTERISTICS
OF THE CARTRIDGE:

Mixing angle: 300°

Calibration hot supply temperature:
60-65°C / 140-149°F

Calibration cold supply temperature:
10-15°C / 50-59°F

Flow rate:
(3 bar / 45 psi, 38°C / 100°F, test faucet)
22 l/min / 5.8 gpm without resistance

Temperature control:
Range: 15-60°C / 60-140°F
Accuracy: ±1.78°C / ±3°F

Pressure test:
Pneumatic: 6 bar / 87 psi
Hydraulic: 35 bar / 500 psi

Cold water supply failure test:
0-5s max. 200cm³ / 0.05 US gallon
5-35s max 300cm³ / 0.08 US gallon

Endurance test:
EN 1111 whole cartridge
20 000 cycles
ASSE 1016 thermostatic element
80 000 cycles

- Smaller size means less brass to house it — better for use in „non-shower“ products, such as faucets.
- Fastest-acting thermostatic wax element (proprietary Kerox compound).
- Flow rate 5.8 gpm at 45 psi
- Non-rising stem.
- Assembles into body using separate mounting nut.
- 38°C / 100°F factory temperature calibration (marked on cartridge) — alternate set point of 40.5°C / 105°F available.
- 300 degree total rotational travel.
- Symmetrical operating range from calibration point (150 rotational degrees in either direction).
- Hot limit option via external component (not included).
- Complete valve shut-off in the event of cold water failure.

HYSTERESIS CURVES

Test faucet, without resistance
Water pressure: 3 bar

![Hysteresis Curve Graph]

Rotation range within comfort zone

Cold water
Hot water
Flow rate

<table>
<thead>
<tr>
<th>Rotational Angle</th>
<th>0°C</th>
<th>10°C</th>
<th>20°C</th>
<th>30°C</th>
<th>40°C</th>
<th>50°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cold Water</td>
<td>0</td>
<td>15</td>
<td>30</td>
<td>45</td>
<td>60</td>
<td>75</td>
<td>90</td>
</tr>
<tr>
<td>Hot Water</td>
<td>0</td>
<td>45</td>
<td>90</td>
<td>135</td>
<td>180</td>
<td>225</td>
<td>270</td>
</tr>
</tbody>
</table>

Hysteretic curve: Cold -> Hot
Flow rate: 5.8 gpm