Thermostatic Cartridge
Temperature Control Only Type
Model TE-2

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, shower faucet)
20 l/min / 5.3 gpm without resistance

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

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

- Non-rising stem.
- Advanced thermostatic wax element.
- 38-41°C / 100-106°F factory temperature calibration.
- Insulation of non-metallic body assures fastest response.
- Finest engineering polymers assure high strength, dimensional precision and resistance to liming.
- Simple single outlet design.

Operating range: 300 rotational degrees. Stops depending on the calibrated temperature and they must be provided on the mating housing by the faucet producer!

Examples for the rotational ranges to hot and cold water

<table>
<thead>
<tr>
<th>Calibrated temperature [°C]</th>
<th>Rotational angular range from the calibrated point to the hot water direction [degree°] (anti-clockwise)</th>
<th>Rotational angular range from the calibrated point to the cold water direction [degree°] (clockwise)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40.5°C±1°C</td>
<td>100°</td>
<td>200°</td>
</tr>
<tr>
<td>38°C±1°C</td>
<td>140°</td>
<td>160°</td>
</tr>
</tbody>
</table>
STABILITY OF MIXED WATER TEMPERATURE WITH ±20% CHANGING SUPPLY PRESSURE

According to: ASSE 1016, ASME 112.18.1, CSAB 125.1.

STABILITY OF MIXED WATER TEMPERATURE WITH CHANGING HOT WATER TEMPERATURE

COLD WATER SUPPLY FAILURE

TE-2 CARTRIDGE

STABILITY OF MIXED WATER TEMPERATURE WITH ±20% CHANGING SUPPLY PRESSURE

According to: ASSE 1016, ASME 112.18.1, CSAB 125.1.

STABILITY OF MIXED WATER TEMPERATURE WITH CHANGING HOT WATER TEMPERATURE

COLD WATER SUPPLY FAILURE

COMPLY WITH EN1111/10.7.
FLOW RATE & HYSTERESIS CURVES

Shower faucet, without resistance, Water pressure: 3 bar

Flow rate vs. temperature graph showing:
- Cold -> Hot
- Hot -> Cold
- Flow rate

Rotational range within comfort zone:
- 42°C
- 34°C

Flow rate (l/min) and temperature (°C) graph with marks at 0°, 30°, 60°, 90°, 120°, 150°, 180°, 210°, 240°, 270°, 300°.

Dimensions and labels on the diagram:
- Body and Cartridge sections
- Measurements and annotations for parts such as 34°C, 42°C, 99°, and flow rate
- Various dimensions in mm and inches

Additional notes:
- 20-point (8.37±0.05 across 0.725 rollers)
- 60-point (24.05±0.1 across 1 roller)