

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-metalic body assures fastest response.
- Finest engineering polymers assure high strength, dimensioonal precision and resistance to liming.
- Simple single outlet designe.

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

Calibrated temperature [°C]	Rotational angular range from the calibrated point to the hot water direction [degree°] (anti-clockwise)	Rotational angular range from the calibrated point to the cold water direction [degree°] (clockwise)
40.5°C±1°C	100°	200°
38°C±1°C	140°	160°

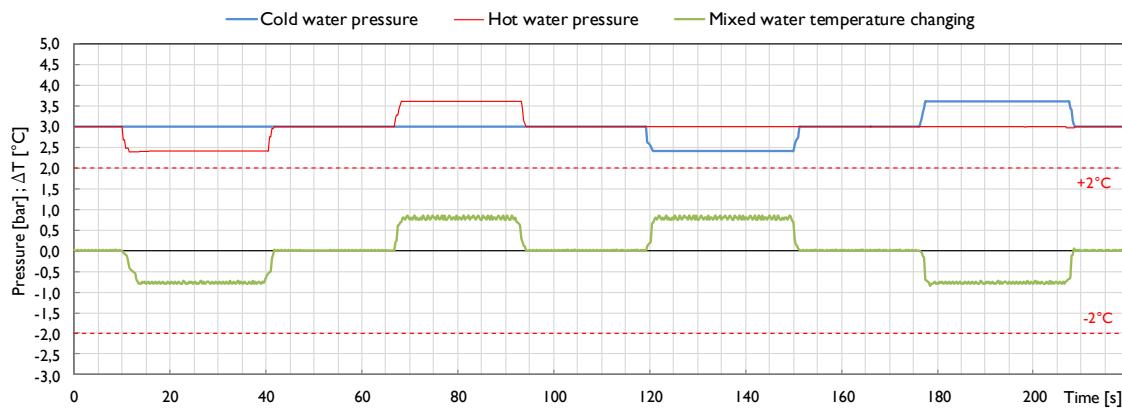


TE-2

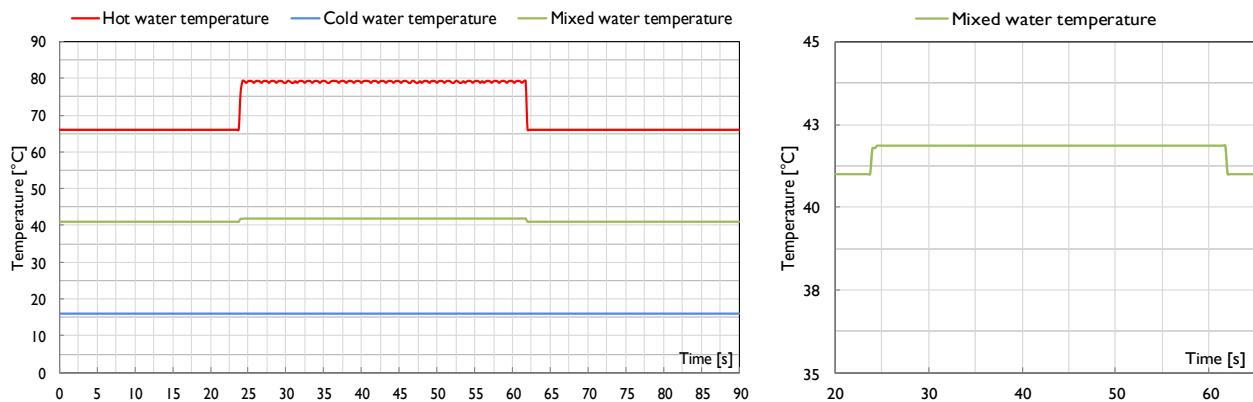
CARTRIDGE

STABILITY OF MIXED WATER TEMPERATURE WITH $\pm 20\%$ CHANGING SUPPLY PRESSURE

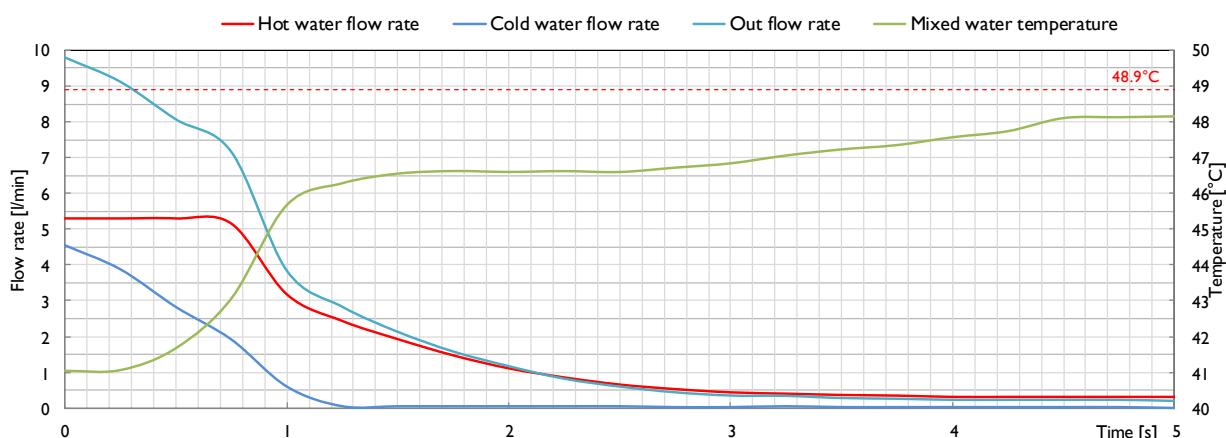
According to: ASSE 1016. ASME 112.18.1, CSAB 125.1.



STABILITY OF MIXED WATER TEMPERATURE WITH CHANGING HOT WATER TEMPERATURE



COLD WATER SUPPLY FAILURE



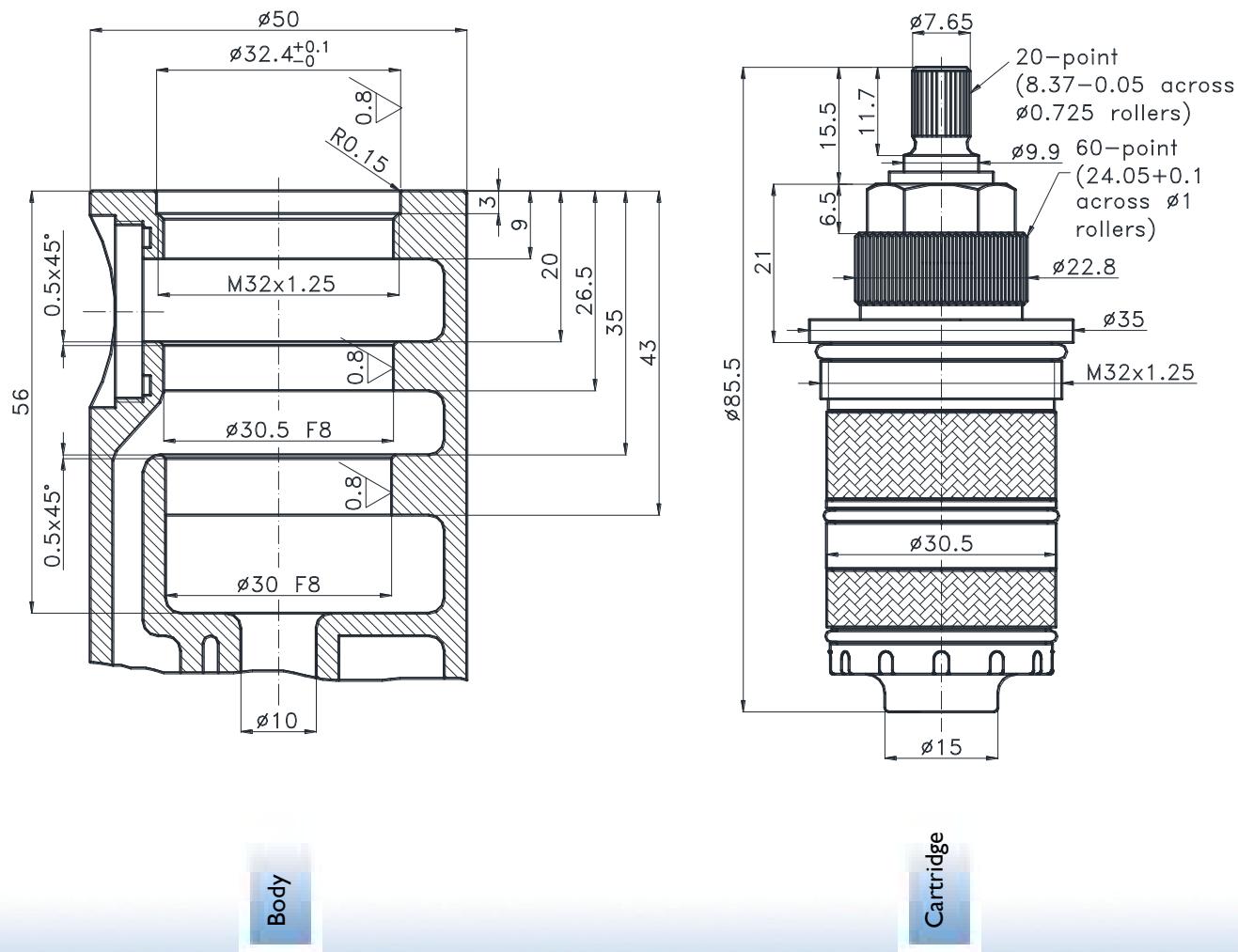
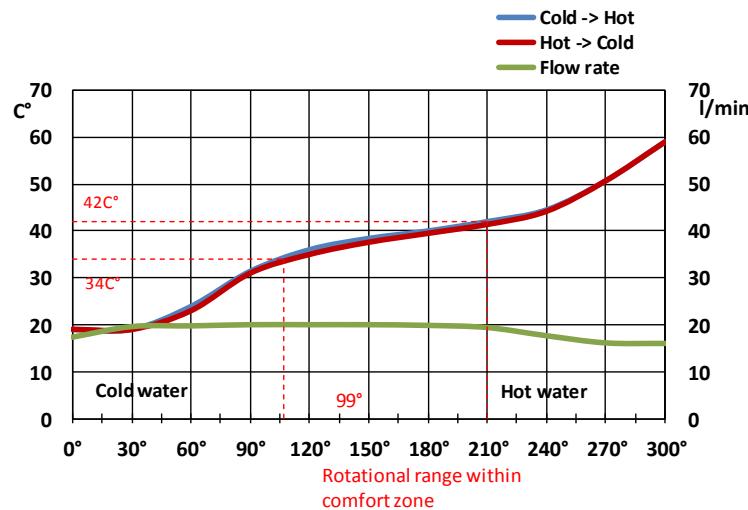
COMPLY WITH EN1111/10.7.

TE-2

CARTRIDGE

FLOW RATE & HYSTERESIS CURVES

Shower faucet, without resistance, Water pressure: 3 bar



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Flow rate:

(3 bar / 45 psi, 38°C / 100°F, test faucet)

22 l/min / 5.8 gpm without resistance

Temperatur 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 failer test:

0-5s max. **200cm³ / 0.05 US gallon**

5-35s max **300cm³ / 0.08 US gallon**

Endurance test:

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ASSE 1016 thermostatic element

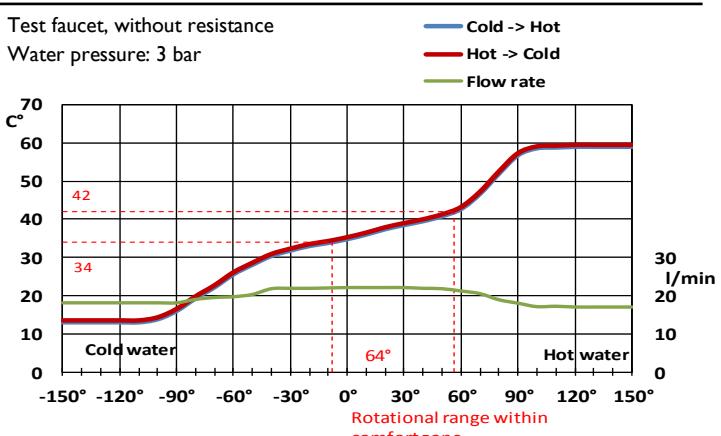
80 000 cycles



- 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.

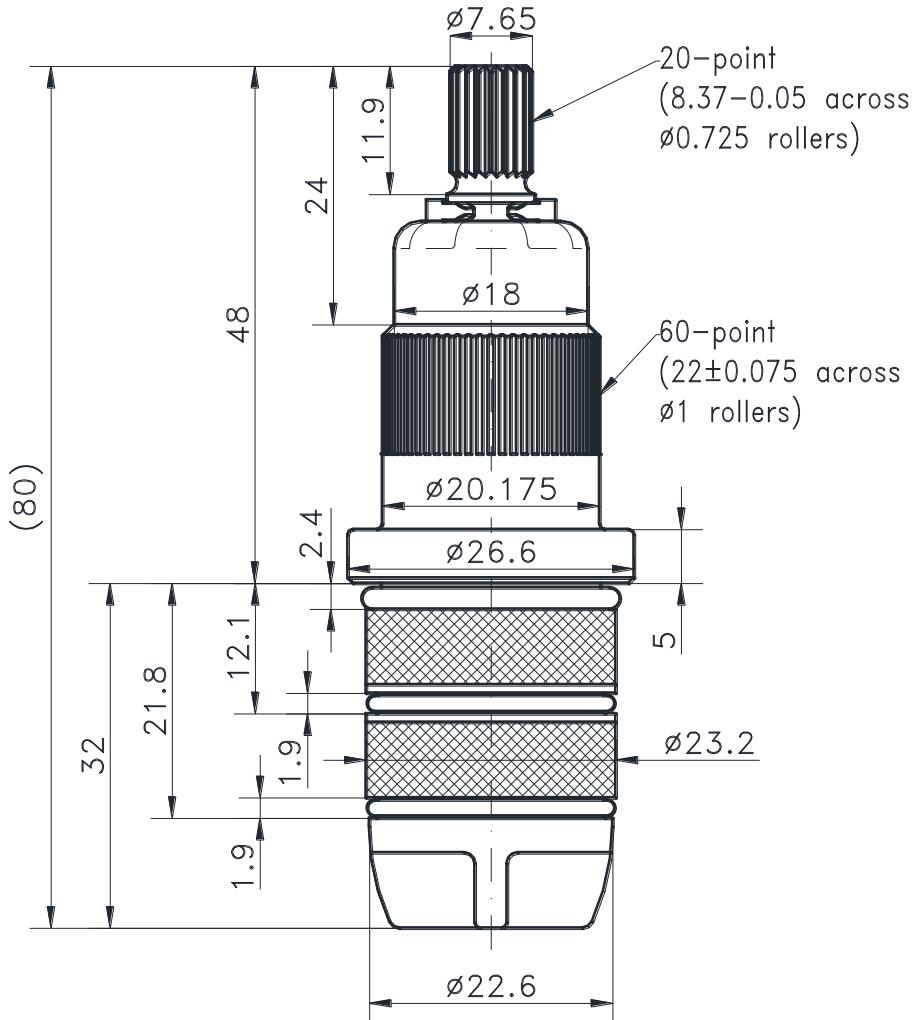
HYSTERESIS CURVES

Test faucet, without resistance
Water pressure: 3 bar

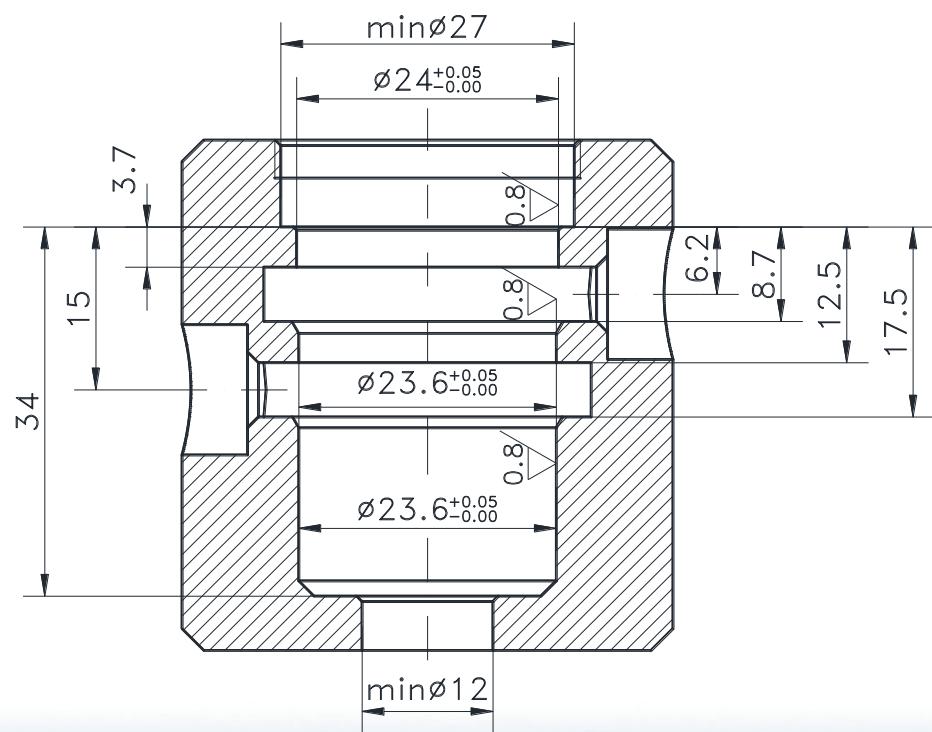


TE mini

CARTRIDGE



Cartridge



Faucet

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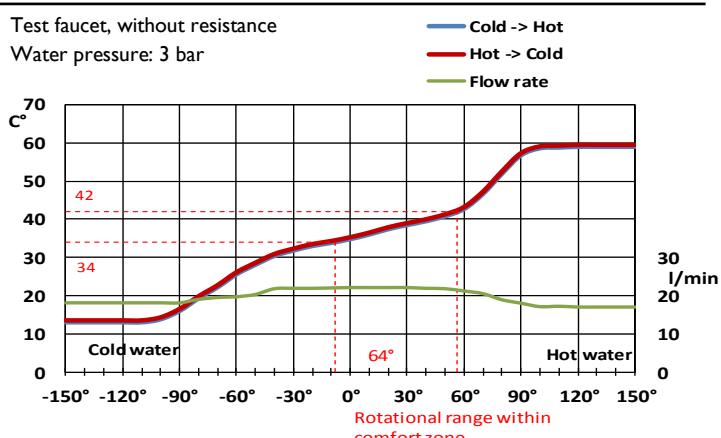
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HYSTERESIS CURVES

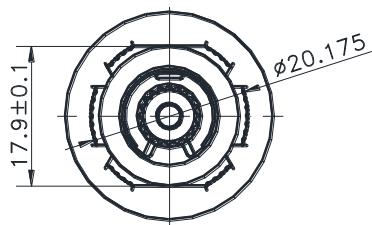
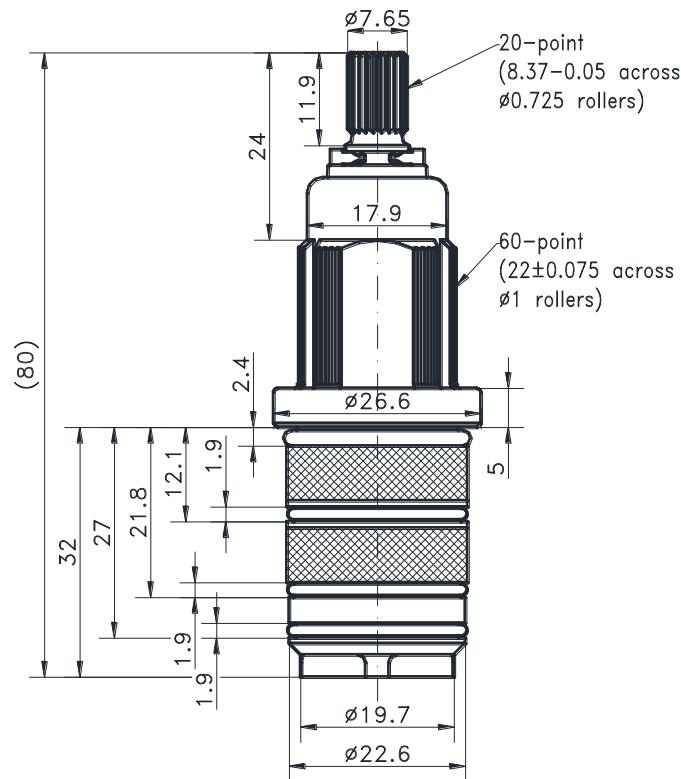
Test faucet, without resistance
Water pressure: 3 bar



TE mini V

CARTRIDGE

Cartridge



Faucet

