

TECHNICAL CHARACTERISTICS OF THE CERAMIC DISCS:

Material:	AL₂O₃
Surface roughness Ra:	0.2 µm
Contact surface area:	50-80%

TECHNICAL CHARACTERISTICS OF THE CARTRIDGE:

	PBS-40	PBR-40
Opening angle:	25°	0°
Mixing angle:	110°	150°
Max. temperature:	90°C / 194°F	
Recommended tightening torque:	12-13 Nm / 106-115 lbf·in	

Pressure test:

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

Flow rate:

(3 bar / 45 psi, test faucet, EN 817)

PBS-40	PBR-40		
13.0	16.0	l/min	with resistance „C”
3.4	4.2	gpm	
13.8	21.5	l/min	without resistance
3.6	5.6	gpm	

Outlet water temperature variation:

±1.78°C / ±3°F

Cold water supply failure test:

max. 1.9 l/min / 0.5 gpm within 5s

Endurance test:

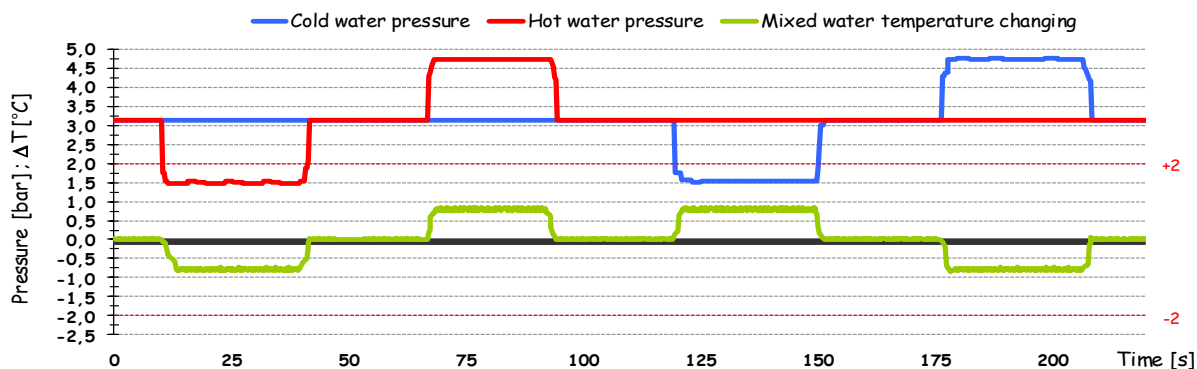
EN 817	70 000 cycles
ASME A 112.18.1M	500 000 cycles

- All-in-one cartridge provides manual selection of volume (PBS-40 only) and temperature, automatic compensation for differential pressure variations, assuring unchanged temperature output.
- Two models are interchangeable.
- Model PBR-40 is reversible for back-to-back installations.
- Complies with ASSE 1016 standard.

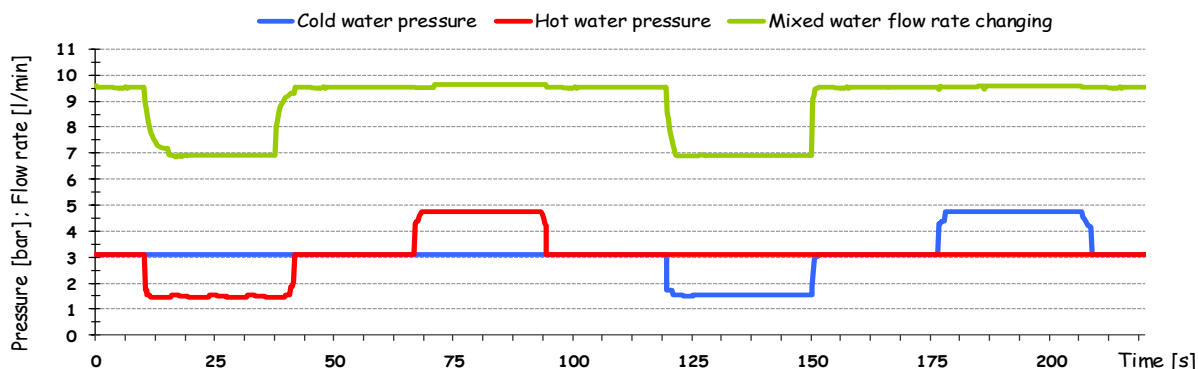


STABILITY OF MIXED WATER TEMPERATURE WITH +/-50% CHANGING PRESSURE SUPPLY

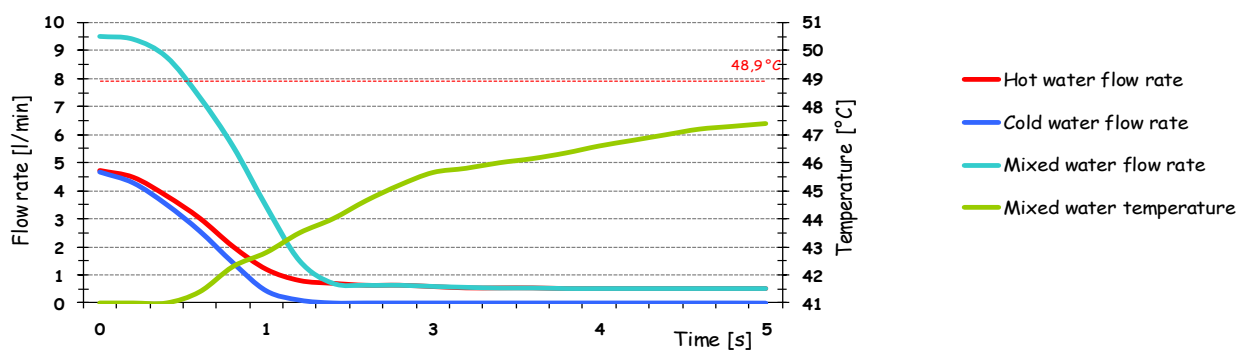
According to: ASSEI016, ASMEA I12.18.1, CSAB I25.1



MIXED WATER FLOW RATE WITH +/-50% CHANGING PRESSURE SUPPLY



COLD WATER SUPPLY FAILURE



PB-40

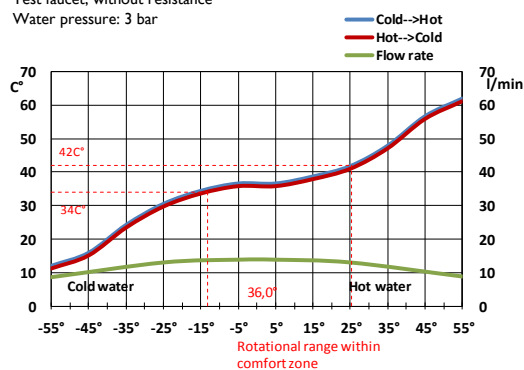
CARTRIDGES

PBS-40 • PBR-40

FLOW RATE & HYSTERESIS CURVES

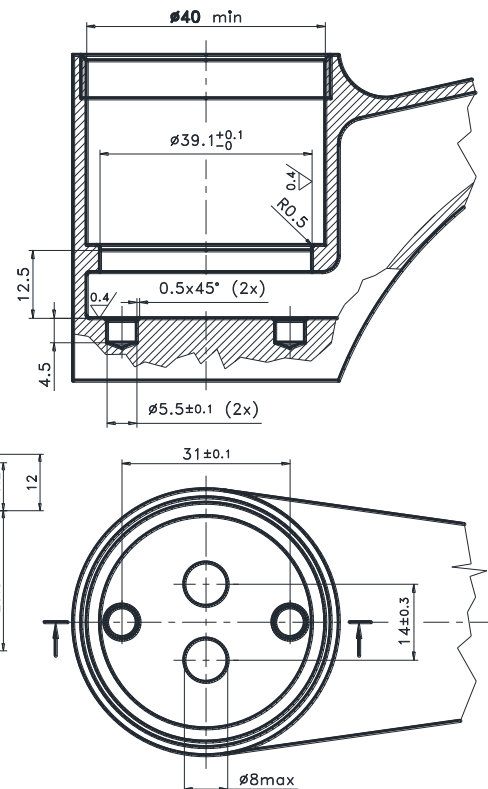
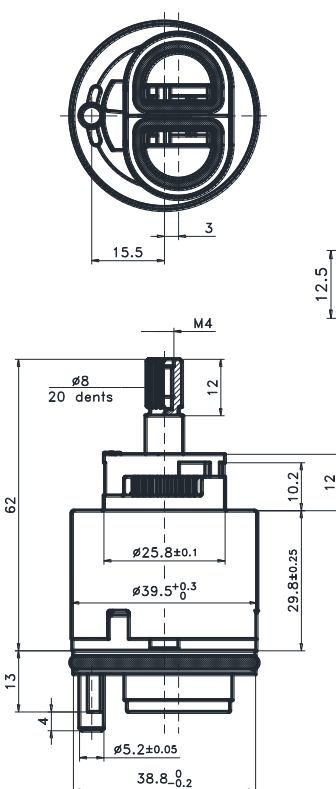
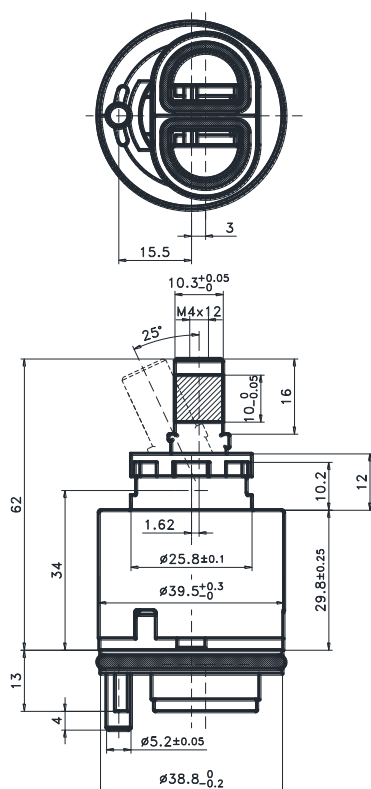
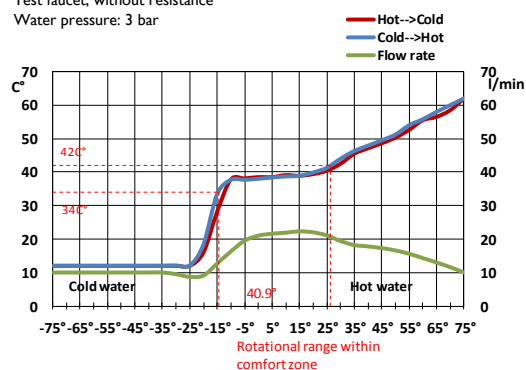
MODEL PBS-40

Test faucet, without resistance
Water pressure: 3 bar

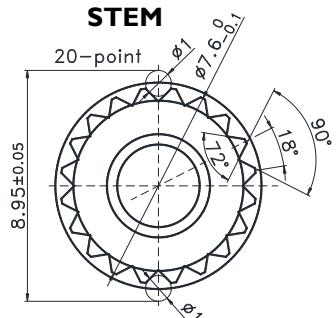


MODEL PBR-40

Test faucet, without resistance
Water pressure: 3 bar



STEM



PBS-40

PBR-40

Body