Ceramic Mixing Cartridges
Water-Saving Single-lever Type 40 & 42 mm Sizes
Model BK-40P

TECHNICAL CHARACTERISTICS
OF THE CERAMIC DISCS:

Material: $\text{AL}_2\text{O}_3$
Surface roughness Ra: 0.2 $\mu$m
Contact surface area: 50-80%

TECHNICAL CHARACTERISTICS
OF THE CARTRIDGE:

Opening angle: 25°
Mixing angle: 90°
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)
  - 21 l/min / 5.5 gpm with resistance „C”
  - 32 l/min / 8.5 gpm without resistance
Endurance test:
- EN 817: 70 000 cycles
- ASME A 112.18.1M: 500 000 cycles

Two exclusive features to provide economies of water consumption overall, and of hot water use specifically:

- Saves energy by turning on in middle position of lever handle, delivering cold water - adds hot water only as lever is rotated. To obtain high temperature user must override rotational “resistance bump”.
- Saves water because user must override pivoting “resistance bump” to obtain high flow – acts as deterrent to unconsciously turning handle on to full flow position regardless of water requirement.

Economical flow rate:
- max. 9 l/min / 2.4 gpm at 3 bar / 45 psi
Economical water temperature:
- ~38 °C / 100 °F

THE MOVEMENT RANGE OF THE LEVER

[Diagram showing the movement range of the lever with hot and cold water]
FLOW RATE& HYSTERESIS CURVES
Test faucet, resistance „C”
Water pressure: 3 bar

FLOW RATE CURVES
Flow rate [l/min]
Pressure [bar]
Test faucet, without resistance
Shower faucet, without resistance
Test faucet, with resistance „C”

INTERCHANGEABLE WITH 40/42 MM CONVENTIONAL SINGLE-LEVER CARTRIDGES.