

BSDR-40

CERAMIC BATH & SHOWER DIVERTER CARTRIDGE
ROTARY TYPE
40 MM SIZE



MADE in the EUROPEAN UNION

ADVANTAGES

- It simplifies the design of the shower valve
- No separate diverter mechanism
- Cost reduction in faucet production
- It provides easier, more intuitive operation
- Easier cleaning

- Rotational travel is divided into bath and shower quadrants, each providing temperature control only. (no volume control)
- $\pm 90^\circ$ travel from off to full hot in both operating ranges.

TECHNICAL CHARACTERISTICS OF THE CERAMIC DISCS:

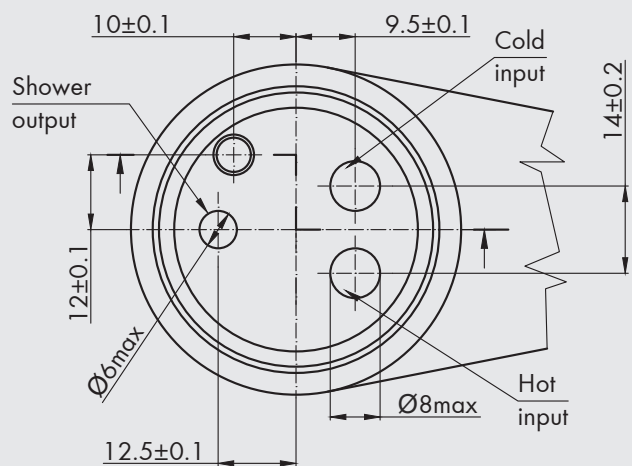
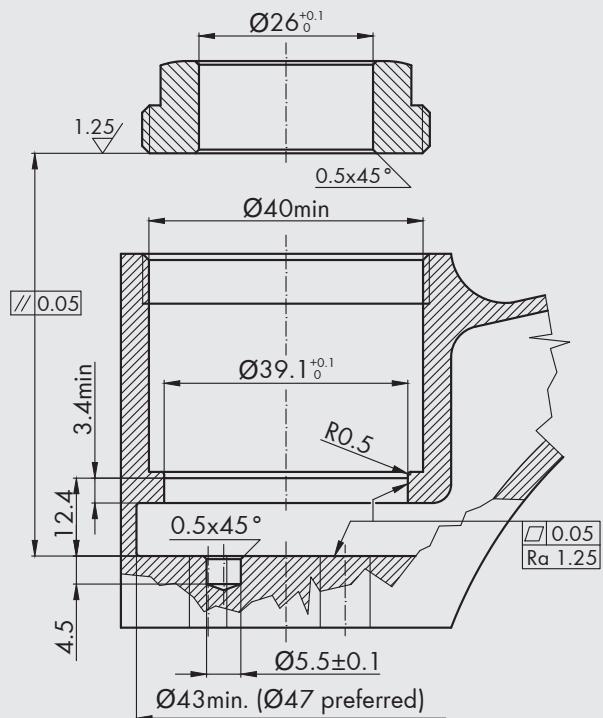
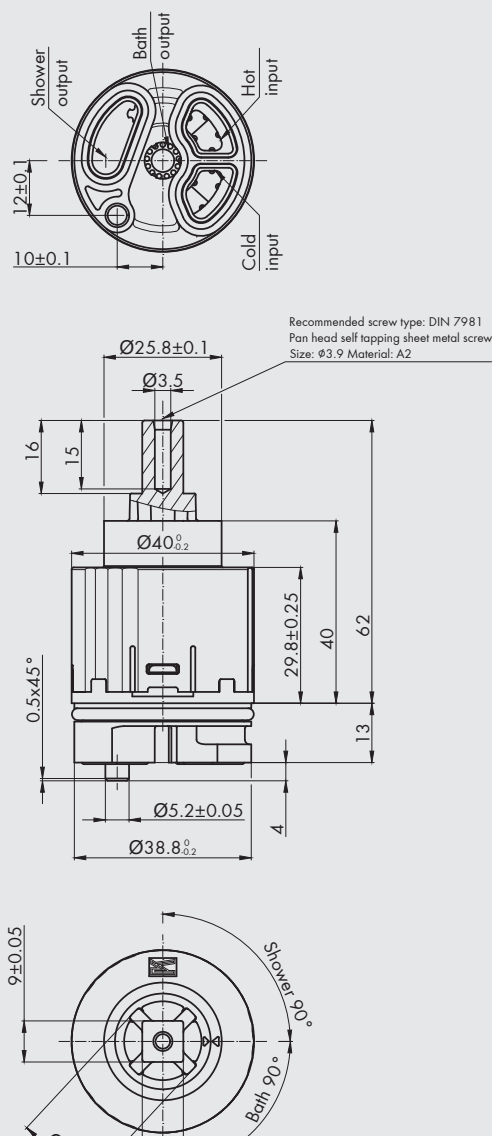
Material:	Al_2O_3
Surface roughness Ra:	0.3 μm
Contact surface area:	50-70%

TECHNICAL CHARACTERISTICS OF THE CARTRIDGE:

Mixing angle in bath position (clockwise):	90°
Mixing angle in shower position (anti-clockwise):	90°
Max. water pressure:	35 bar / 500 psi
Max. temperature:	90°C / 194°F
Max. tightening torque:	12 Nm / 106 lbf•in
Pressure test:	
pneumatic	6 bar / 87 psi
hydraulic	35 bar / 500 psi
Flow rate:	(3 bar / 45 psi, test faucet, EN 817) 22.6 l/min / 6 gpm in bath position without resistance 12.5 l/min / 3.3 gpm in shower position without resistance
Endurance test:	EN 817 70 000 cycles ASME A 112.18.1M 500 000 cycles

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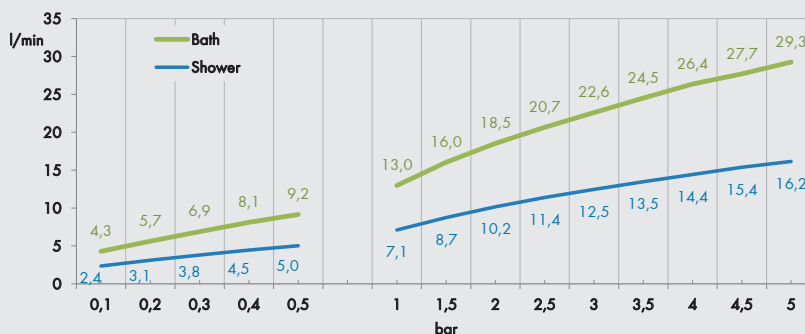


CARTRIDGE

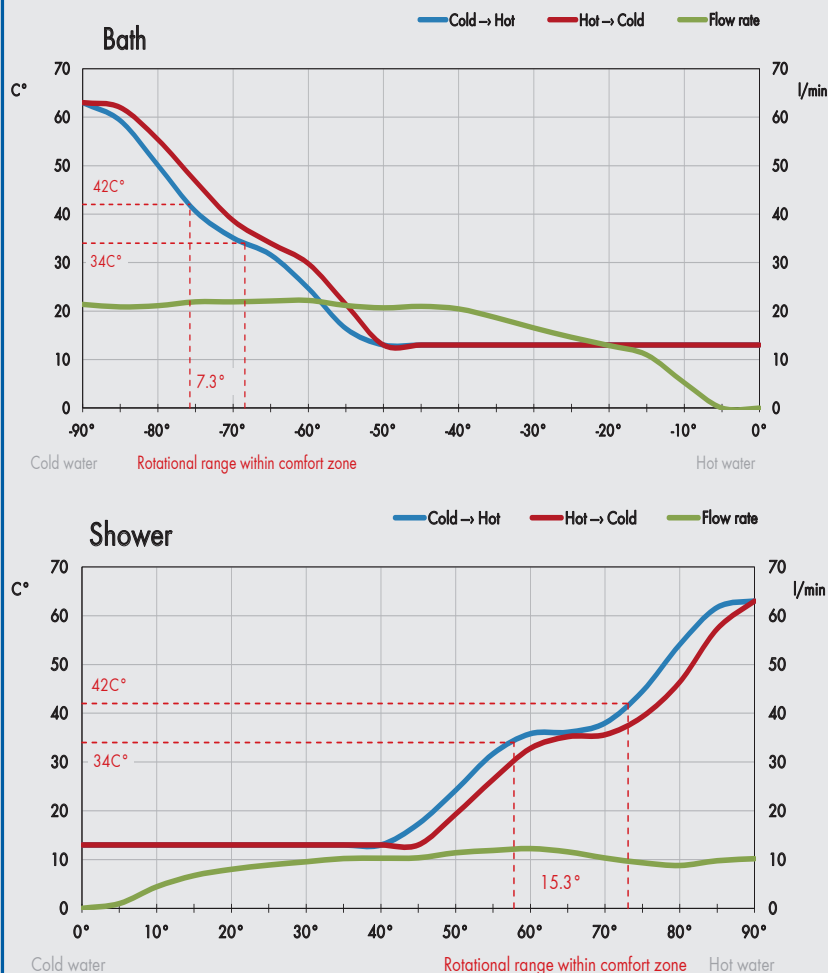
BODY



FLOW RATE CURVES



FLOW RATE & HYSTERESIS CURVES



General requirements for nut and faucet:

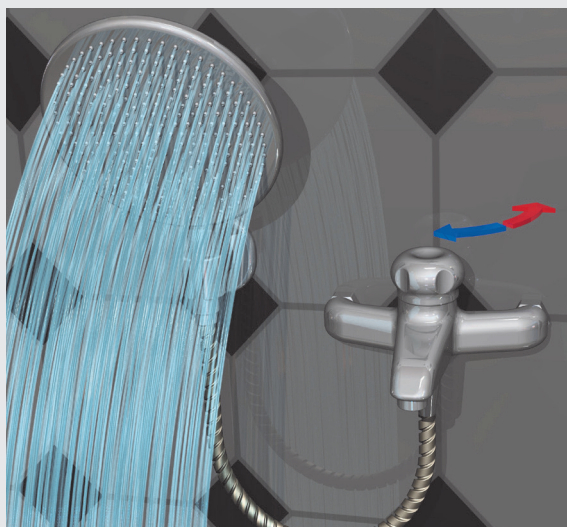
1. Made of solid metal material instead of plastic
2. Usage of any lubricant on threads is not allowed
3. No sharp or burry sections at sealing surfaces
4. Recommended tightening torque is relevant to brass-brass connection with 1.5 mm thread pitch.



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SHOWER MODE



SHUT-OFF POSITION IS THE CENTER POSITION



BATH FILLING MODE

General requirements for nut and faucet:

1. Made of solid metal material instead of plastic
2. Usage of any lubricant on threads is not allowed
3. No sharp or burry sections at sealing surfaces
4. Recommended tightening torque is relevant to brass-brass connection with 1.5 mm thread pitch.

