Ceramic Mixing Cartridges
Conventional Single-Lever Type • 40 mm Size
Model K-40 ND
for “non-pressurized” application

**TECHNICAL CHARACTERISTICS OF THE CERAMIC DISCS:**

- **Material:** AL₂O₃
- **Surface roughness Ra:** 0.3 µm
- **Contact surface area:** 50-70%

**TECHNICAL CHARACTERISTICS OF THE CARTRIDGE:**

- **Max. opening angle:** 25°
- **Max. mixing angle:** 110°
- **Max. water pressure:** 35 bar / 500 psi
- **Max. temperature:** 90°C / 194 °F
- **Max. tightening torque:** 12 Nm / 106 lbf•in
- **Pressure test:**
  - **Air:** 6 bar / 87 psi
  - **Water:** 35 bar / 500 psi
- **Flow rate:**
  - (3 bar / 45 psi, test faucet, EN 817)
    - 12.8 l/min / 2.8 gpm with resistance “A”
    - 16.7 l/min / 3.7 gpm with resistance “B”
    - 18.5 l/min / 4.1 gpm with resistance “C”
    - 23.5 l/min / 5.2 gpm without resistance

- **Endurance test:**
  - EN 817: 70 000 cycles
  - ASME A112.18.1: 500 000 cycles

**“NON-PRESSURIZED” FUNCTION**

This cartridge can be used in “non-pressurized” application.
Example for installation:

**FLOW RATE & HISTERESIS CURVES:**

Test faucet, with resistance “C”:
- Water pressure: 3 bar

Flow rate [l/min]

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Flow rate [l/min]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°C</td>
<td>10 l/min</td>
</tr>
<tr>
<td>10°C</td>
<td>20 l/min</td>
</tr>
<tr>
<td>20°C</td>
<td>30 l/min</td>
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<tr>
<td>30°C</td>
<td>40 l/min</td>
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<tr>
<td>40°C</td>
<td>50 l/min</td>
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<tr>
<td>50°C</td>
<td>60 l/min</td>
</tr>
<tr>
<td>60°C</td>
<td>70 l/min</td>
</tr>
</tbody>
</table>

**FLOW RATE CURVES:**

- Test faucet, without resistance
- Test faucet with resistance “C”
- Test faucet with resistance “B”
- Test faucet with resistance “A”
INTERCHANGEABLE WITH 40 MM CONVENTIONAL SINGLE-LEVER CARTRIDGES.

The cold water from the cartridge and the hot water from the water heater have to be mixed inside the faucet. It has to be prepared outside the cartridge by the faucet manufacturers.