A total component solution, from source to process

Low pressure multiturn valves, bellows seal type, for ultra high purity fluids, manually actuated

**KEY FEATURES**

- Reduced level of particule emission
- Small gas absorption and desorption from seal material
- Fully contained seat
- Electronic shooting or laser welded bellows ensure high leak tightness integrity
- Metal to metal sealing to atmosphere
- Secondary sealing through Elastomer packing prevents atmospheric contamination in case of bellows failure
- Checkpoint allows on line monitoring of bellows tightness
- Visual indication of valve position (open/closed)
- No rubbing

**STANDARD SPECIFICATION**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working pressure pmax</td>
<td>30 bar/435 psi (K380MI: 15 bar)</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-20°C to +80°C</td>
</tr>
<tr>
<td>Helium leak rate</td>
<td></td>
</tr>
<tr>
<td>Internal</td>
<td>10⁻⁹ mbar/sec</td>
</tr>
<tr>
<td>External</td>
<td>10⁻⁹ mbar/sec</td>
</tr>
<tr>
<td>Flow coefficient Cv</td>
<td>2.83 - 14.5</td>
</tr>
<tr>
<td>Nominal seat diameter</td>
<td>12 - 80 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1.6 - 33</td>
</tr>
<tr>
<td>Material</td>
<td></td>
</tr>
<tr>
<td>Body</td>
<td>316 L</td>
</tr>
<tr>
<td>Bellows</td>
<td>316 L</td>
</tr>
<tr>
<td>Seat</td>
<td>PCTFE</td>
</tr>
</tbody>
</table>
**BASIC MODELS**
- Butt weld connections
- Surface finish Ra 0.4 μm
- High purity cleaning
- Passivation

**OPTIONS**
- GAZEL®/VCR® connections
- Electropolished surfaces Ra 0.2 μm or 0.4 μm (ex: EP 0.2)
- Body brass (except K380)
- Purge ports right or left, male GAZEL®/VCR®
- Microcleaned for ultra high purity application according
- Vespel seat, stainless steel seat, other s on request
- Front or back panel mounting (Only K312 and K320) (Ref: FP)
- Electric limit switches (Ref: MRE2)

**ORDERING**
When ordering, please specify:
- Series number
- Connections
- Type of gas
- Example: K312 MI - I/K - MGAZEL®/VCR®1/2" - BWO 1/2"- EP 0.4 - Oxygen (See attached order template)

**CHARACTERISTICS**
See Valve Sizing Guide