KE Plastomer – Centred-disc Butterfly Valve with PFA Liner

Applications:
- Chemicals
- Highly corrosive fluids
- Toxic and highly corrosive fluids, which cannot be handled by metals and/or elastomers. Only PFA can be used.
- Moderately corrosive fluids
- Moderately aggressive fluids allowing the use of a PFA liner with a stainless steel valve disc.
- Fluids requiring absolutely safe handling
- Ultra-pure water

More information: www.ksb.com/products
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1. High operating reliability
   Patented secondary seal elements at the stem passages. The stem passages are reliably sealed even if surge pressures occur.

2. Valve stem in anti-blow out design (with shoulder) and steel bearings with reinforced PTFE lining.

3. Reliable long-term sealing at the flanged line connections
   The specially designed liner provides tight sealing at the flanged line connections, eliminating the need for an extra gasket. A back-up elastomer ring provides proper sealing even under vacuum conditions.

4. Absolutely reliable shut-off and sealing
   - Tight sealing is ensured by compression between the liner’s collar and the back-up liner between the stem and the body.
   - The spherically machined valve disc and matching spherically moulded PFA liner ensure tight shut-off. The elastomer back-up liner guarantees reliable contact pressure.

5. Direct mounting of manual gearbox, electric or pneumatic actuator
   Top flange to ISO 5211 for a range of actuator options.

6. Long service life, zero maintenance
   Unique AMRING sealing system

7. Compliance with the requirements of the chemical industry
   - The weakest point of the stem is located outside the valve body and thus ensures safety for personnel and plant.
   - Anti-static device (resistance < 10 Ohm)
   - One-piece valve stem/disc
   - Ground connection

8. Electrical continuity
   - Elastic connection between stem and body
   - Earth connection of the body

Technical data

<table>
<thead>
<tr>
<th>Size</th>
<th>DN 40 – 600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. operating pressure</td>
<td></td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>10 bar</td>
</tr>
<tr>
<td>Vacuum</td>
<td>10⁻⁵ bar</td>
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<tr>
<td>Temperature range</td>
<td></td>
</tr>
<tr>
<td>DN 40 to 300</td>
<td>-20 to +200 °C</td>
</tr>
<tr>
<td>DN 350 to 600</td>
<td>-10 to +200 °C</td>
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<tr>
<td>Max. permissible flow velocity</td>
<td></td>
</tr>
<tr>
<td>For clean fluids</td>
<td>5 m/s</td>
</tr>
<tr>
<td>For clean gases</td>
<td>50 m/s</td>
</tr>
</tbody>
</table>

Materials

- Body: nodular cast iron
- Stem and valve disc: stainless steel
- Liner: PFA

Standard variants

ACTAIR NG / DYNACTAIR NG pneumatic actuators, ACTELEC electric actuators, AMTROBOX limit switch, AMTRONIC / SMARTRONIC positioner, ATEX design in compliance with Directive 94/9/EC, Manual gearbox