GEA Aseptomag valve technology - configuration key

Aseptic double chamber valve DK
Aseptic double chamber bottom-seat valve DKBS
Aseptic double chamber valve DK
Aseptic double chamber bottom-seat valve DKBS

Closing pressure 5-6 bar by default
Air connections on the actuator for tubes with outer diameter 6mm by default
Ordering example: DK 65 DIN T/T – PA135EA 1 2 – (Aseptic double chamber valve DN65)

1. Valve type
   - DK: Aseptic double chamber valve
   - DKBS: Aseptic double chamber bottom-seat valve

2. Valve dimension

<table>
<thead>
<tr>
<th>Valve Type</th>
<th>Nominal Diameter</th>
<th>Dim. Ø x s (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN 11850 (standard)</td>
<td>25, 40, 50, 65</td>
<td>28x1,5, 40x1,5</td>
</tr>
<tr>
<td></td>
<td>80, 100, 125, 150</td>
<td>70x2, 85x2, 104x2, 129x2</td>
</tr>
<tr>
<td>ISO (DIN 11866 B)</td>
<td>25, 40, 50, 65</td>
<td>33,7x2, 48,3x2</td>
</tr>
<tr>
<td></td>
<td>80, 100, 125, 150</td>
<td>60,3x2, 76,1x2, 88,9x2,3, 114,3x2,6</td>
</tr>
<tr>
<td>OD (DIN 11866 C)</td>
<td>1”, 1 1/2”, 2”, 2 1/2”, 3”, 4”, 6”</td>
<td>25,4x1,65, 38,1x1,65, 50,8x1,65</td>
</tr>
<tr>
<td></td>
<td></td>
<td>63,5x1,65, 76,2x1,65, 101,6x2,11</td>
</tr>
</tbody>
</table>

3. Standard connection size
   - DIN 11850 (standard)
   - ISO 11866 B
   - OD 11866 C

4. Connection ports DK valve
   - E/E: Connection ports execution E/E
     - 2 welding connections
   - T/T: Connection ports execution T/T
     - 4 welding connections
   - E/T: Connection ports execution E/T
     - 3 welding connections
   - T/E: Connection ports execution T/E
     - 3 welding connections
4.1 Connection ports DKBS valve

- E/E BSR
- T/T BSR
- E/T BSR
- T/E BSR

Bottom-seat valve with pipe connection

- E BSS
- T BSS

Bottom-seat valve with welding flange

- E BSO
- T BSO

Bottom-seat valve with loose flange (Welding tank flange must be ordered separately)

5. Internal Assembly

Seat A and B: Valve disk with shrunk TEFASEP® valve seat seal (standard)

5.1 Valve seat seal options

- TVT
- TVP

Valve seat A: Divisible valve disk with TEFASEP® valve seat seal
Valve seat B: Valve disk with shrunk TEFASEP® valve seat seal

Valve seat A: Divisible valve disk with PTFE valve seat seal
Valve seat B: Valve disk with shrunk TEFASEP® valve seat seal

- TVE

Valve seat A: Divisible valve disk with EPDM valve seat seal
Valve seat B: Valve disk with shrunk TEFASEP® valve seat seal

6. Actuator type

- PA...
- PA...AZ
- PA...EA

Pneumatic actuator
Pneumatic actuator AZ
Pneumatic actuator EA (Standard)

<table>
<thead>
<tr>
<th>Pipe-Ø (OD)</th>
<th>1&quot;</th>
<th>1 1/2&quot;</th>
<th>2&quot;</th>
<th>2 1/2&quot;</th>
<th>3&quot;</th>
<th>4&quot;</th>
<th>6&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe-Ø (DIN)</td>
<td>25</td>
<td>40</td>
<td>50</td>
<td>65</td>
<td>80</td>
<td>100</td>
<td>125</td>
</tr>
<tr>
<td>PA</td>
<td>80</td>
<td>100</td>
<td>100</td>
<td>135</td>
<td>180</td>
<td>180</td>
<td>255</td>
</tr>
</tbody>
</table>

Examples: PA100AZ, PA100EA

PA = Pneumatic actuator
AZ = Integrated seat lifting for seat A by default
EA = Integrated seat lifting for seat A and B by default
### 7. Position side valves

<table>
<thead>
<tr>
<th></th>
<th>Steam inlet valve OKFAV</th>
<th>Drain valve OKFAV</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NO</td>
<td>NC (standard)</td>
</tr>
<tr>
<td>2</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>3</td>
<td>NC</td>
<td>NO</td>
</tr>
<tr>
<td>4</td>
<td>NC</td>
<td>NC</td>
</tr>
</tbody>
</table>

#### Side valve dimensioning for DK valves without 3A

<table>
<thead>
<tr>
<th>DN main valve</th>
<th>25</th>
<th>40</th>
<th>50</th>
<th>65</th>
<th>80</th>
<th>100</th>
<th>125</th>
<th>150</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN steam inlet valve</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>PA on side valves</td>
<td>50</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
</tr>
</tbody>
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#### Side valve dimensioning for DK valves with 3A

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<th>DN main valve</th>
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</thead>
<tbody>
<tr>
<td>DN steam inlet valve</td>
<td>15</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>PA on side valves</td>
<td>50</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
</tr>
</tbody>
</table>

### 8. Temperature monitoring in the sterile chamber

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No temperature probe</td>
</tr>
<tr>
<td>2</td>
<td>OKFAV drain valve DN25 with PT100 (0-200°C) with transmitter 4-20mA (standard)</td>
</tr>
<tr>
<td>6</td>
<td>OKFAV drain valve DN25 with PT100 (0-200°C) without transmitter</td>
</tr>
</tbody>
</table>

### 9. Option 3A

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>–</td>
<td>Standard execution</td>
</tr>
<tr>
<td>3A</td>
<td>Valve 3A approved</td>
</tr>
</tbody>
</table>
Options

Parts in contact with medium
- Electropolishing
- Surface roughness < Ra 0.8 μm
- Special material
- Mixed connection ports (specify all dimensions)

Monitoring of the internal assembly
- Steam barrier DS
- Bellows monitoring BW

Pneumatic actuator
- Increased closing pressure (specify pressure)
- Air connections for OD tubing 1/4"

Valve accessories
- Welding tank flange for bottom-seat valve BSO
- Open feedback unit M8 (without proximity switches)
- Open feedback unit M12 (without proximity switches)
- Adjusting drive without feedback
- Adjusting drive with feedback
- Stroke limiter
- Binder with valve description

Certification
- Inspection certificate 3.1
- Certificate for surface roughness
- Certificate for delta ferrite
- Certificate for FDA conformity of seals in contact with medium

Spare parts
Spare parts for aseptic DK and DKBS valves are listed in the mounting / dismounting manual and also on the customer drawing.

Customer specific design
If you cannot find your valve configuration in our standard, please contact us. We would like to discuss this with you.

Feedback units
Please see therefore the configuration keys "valve accessories".

Repairs
We are able to repair damaged valve components. Our workshop is well equipped.

Would you like to place an order or do you want a quotation first?
- Order
- Quotation

How you can contact us:
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- +41 (0)34 426 29 28
- sales.aseptomag@gea.com