Description:
- 2/2-way pressure operated seat valve
- seat valve with plunger washer
- direct force operated
- body in brass, red brass or stainless steel design
- female thread ISO228
- optional installation position

Application area:
- viscosity 600mm²/s
- medium temperature -40°C to +200°C
- ambient temperature -10°C to +60°C
- operating pressure 0 to 25bar (see chart)
- control pressure 4 to 10 bar
- for hot and cold water, oil and air,
in stainless steel design also for aggressive media
- control medium air and neutral liquids

Explanation:
During the installation please pay attention to the flow pattern (marking with arrow on the body). Optional flow pattern with optional available double-acting piston drive. Other sealings, operating pressures and bodies of the control cylinder on request. As special valve also available with integrated positioner.

With aluminium cylinders (Type „xxZ“) water must not be used as control medium.

Thread ISO 228: the norm describes the thread connection of a parallel male thread with a parallel female thread and is marked with „G“.

Attention! Threads for red brass cases in 1/2“ and 3/4“ differ according to DIN EN 10226 (Rp)

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Component</th>
<th>Brass</th>
<th>Stainless steel</th>
<th>Optional material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>Brass</td>
<td>Stainless steel</td>
<td>O</td>
</tr>
<tr>
<td>2</td>
<td>Seat sealing</td>
<td>PTFE</td>
<td>PTFE</td>
<td>T</td>
</tr>
<tr>
<td>3</td>
<td>Cylinder</td>
<td>30/50: Brass</td>
<td>50: Nickel-plated brass</td>
<td>E</td>
</tr>
<tr>
<td>4</td>
<td>Spindle sealing</td>
<td>NBR</td>
<td>PTFE</td>
<td>T</td>
</tr>
</tbody>
</table>

*differing medium temperature for optional sealings:
- NBR upto max. 80°C
- FKM upto max.

Wear parts:
- 3.2 Spindle
- 3.4 Valve disc
- 3.5 Disc
- 3.6 Seat sealing
- 3.13 Driving band
- 3.14 V-set of collars
- 3.15 Countersunk screw
- 3.16 Lip seal
- 3.17 Lip seal
- 3.18 O-ring
- 3.21 Flat gasket
- 3.22 Spring
- 3.23 Wiper

Options:
- PV: Pilot valve GMV3197
- OF: Free of oil and grease
- DW: Double-acting actuator
- PS: Optional position indication (NO and double-acting)
- PS: Electrical position indication (limit switch)
- PS: 2 inductive limit switches in the transparent box
- HA: Manual override
- VU: Vacuum design with soft sealing
- VD: Vacuum design, also for pressure
- AS: Welding ends
- MV: Milk pipe connection

Errors and changes excepted. Change status: 10/2017-006

Strong Basis. Individual Solutions.
### 2/2-WAY PRESSURE OPERATED VALVE, DIRECT FORCE OPERATED

#### DSB6300

![Diagram of DSB6300 valve](image)

<table>
<thead>
<tr>
<th>Matchcode</th>
<th>Size</th>
<th>Operating pressure*</th>
<th>Measures [mm]</th>
<th>Weight [kg]</th>
<th>Kv-Value*** [m³/h]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>closing with medium</td>
<td>closing against medium</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>NC</td>
<td>NO</td>
<td>NC</td>
<td></td>
</tr>
<tr>
<td>Connection</td>
<td>Nominal size</td>
<td>Control cylinder</td>
<td>Type</td>
<td>Pressure [bar]</td>
<td>Back pressure [bar]</td>
</tr>
<tr>
<td>[mm]</td>
<td>[mm]</td>
<td>[mm]</td>
<td>[mm]</td>
<td>[bar]</td>
<td>[bar]</td>
</tr>
<tr>
<td><strong>Body red brass</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSB6300-04BxT-120-xxx</td>
<td>1/2**</td>
<td>12</td>
<td>50</td>
<td>12A</td>
<td>0-16</td>
</tr>
<tr>
<td>DSB6300-05BxT-160-xxx</td>
<td>3/4**</td>
<td>16</td>
<td>50</td>
<td>12A</td>
<td>0-16</td>
</tr>
<tr>
<td>DSB6300-06BxT-230-xxx</td>
<td>1</td>
<td>23</td>
<td>50</td>
<td>12A</td>
<td>0-16</td>
</tr>
<tr>
<td>DSB6300-07BxT-290-xxx</td>
<td>1 1/4</td>
<td>29</td>
<td>50</td>
<td>12A</td>
<td>0.10</td>
</tr>
<tr>
<td>DSB6300-08BxT-340-xxx</td>
<td>1 1/4</td>
<td>29</td>
<td>80</td>
<td>14Z</td>
<td>0-16</td>
</tr>
<tr>
<td>DSB6300-06BxT-350-xxx</td>
<td>1 1/2</td>
<td>35</td>
<td>50</td>
<td>12A</td>
<td>0-8</td>
</tr>
<tr>
<td>DSB6300-08BxT-350-xxx</td>
<td>1 1/2</td>
<td>35</td>
<td>80</td>
<td>14Z</td>
<td>0-16</td>
</tr>
<tr>
<td>DSB6300-09BxT-430-xxx</td>
<td>2</td>
<td>43</td>
<td>50</td>
<td>12A</td>
<td>0-4</td>
</tr>
<tr>
<td>DSB6300-09BxT-430-xxx</td>
<td>2</td>
<td>43</td>
<td>80</td>
<td>14Z</td>
<td>0-16</td>
</tr>
<tr>
<td>DSB6300-08BxT-430-xxx</td>
<td>2</td>
<td>43</td>
<td>125</td>
<td>15Z</td>
<td>0-16</td>
</tr>
</tbody>
</table>

**Body brass**

<table>
<thead>
<tr>
<th>Matchcode</th>
<th>Size</th>
<th>Operating pressure*</th>
<th>Measures [mm]</th>
<th>Weight [kg]</th>
<th>Kv-Value*** [m³/h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSB6300-10ABT-630-xxx</td>
<td>2 1/2</td>
<td>63</td>
<td>80</td>
<td>14Z</td>
<td>0-6</td>
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<tr>
<td>DSB6300-10ABT-630-xxx</td>
<td>2 1/2</td>
<td>63</td>
<td>125</td>
<td>15Z</td>
<td>0-10</td>
</tr>
<tr>
<td>DSB6300-11ABT-760-xxx</td>
<td>3</td>
<td>76</td>
<td>80</td>
<td>14Z</td>
<td>0-4</td>
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<tr>
<td>DSB6300-11ABT-760-xxx</td>
<td>3</td>
<td>76</td>
<td>125</td>
<td>15Z</td>
<td>0-10</td>
</tr>
</tbody>
</table>

**Body stainless steel**

<table>
<thead>
<tr>
<th>Matchcode</th>
<th>Size</th>
<th>Operating pressure*</th>
<th>Measures [mm]</th>
<th>Weight [kg]</th>
<th>Kv-Value*** [m³/h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSB6300-04OTT-130-xxx</td>
<td>1/2</td>
<td>13</td>
<td>50</td>
<td>12E</td>
<td>0-25</td>
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<tr>
<td>DSB6300-05OTT-180-xxx</td>
<td>3/4</td>
<td>18</td>
<td>50</td>
<td>12E</td>
<td>0-20</td>
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<tr>
<td>DSB6300-06OTT-240-xxx</td>
<td>1</td>
<td>24</td>
<td>50</td>
<td>12E</td>
<td>0-16</td>
</tr>
<tr>
<td>DSB6300-07OTT-310-xxx</td>
<td>1 1/4</td>
<td>31</td>
<td>50</td>
<td>12E</td>
<td>0-9</td>
</tr>
<tr>
<td>DSB6300-08OTT-350-xxx</td>
<td>1 1/4</td>
<td>31</td>
<td>80</td>
<td>14Z</td>
<td>0-25</td>
</tr>
<tr>
<td>DSB6300-08OTT-350-xxx</td>
<td>1 1/2</td>
<td>35</td>
<td>50</td>
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<tr>
<td>DSB6300-09OTT-450-xxx</td>
<td>1 1/2</td>
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<td>0-20</td>
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<tr>
<td>DSB6300-09OTT-450-xxx</td>
<td>2</td>
<td>45</td>
<td>50</td>
<td>12E</td>
<td>0-4</td>
</tr>
<tr>
<td>DSB6300-09OTT-450-xxx</td>
<td>2</td>
<td>45</td>
<td>80</td>
<td>14Z</td>
<td>0-12</td>
</tr>
<tr>
<td>DSB6300-09OTT-450-xxx</td>
<td>2</td>
<td>45</td>
<td>125</td>
<td>15Z</td>
<td>0-20</td>
</tr>
</tbody>
</table>

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* declared is the maximum pressure range at a control pressure of 6bar
** differing thread DIN EN 10226 (Rp)
*** KV-Value: The nominal flow of KV to VDI/VDE 2173 indicates the water amount in cubic metres per hour, at 100% opened armature, \(\Delta p=1\) bar and at a water temperature from 5 to 30°C.
Functions:

closed in rest position (NC):
Type1xx: closing with the medium, single-acting. With liquids there can occur closing and opening strokes.

Type3xx: closing against the medium, single-acting. With liquids prevention of closing and opening strokes.

opened in rest position (NO):
Type4xx: closing against the medium, single-acting

optional flow pattern:
Type5xx/Type6xx: for optional flow pattern

Special option with integrated positioner

For the DSB6300 there is an integrated positioner available. Main features:
- Input signal range: 0/4-20mA, 0-10V
- Output signal range: always meets the input signal
- Auxiliary power electrical: 24V DC, max. 10W
- Hysteresis: <0.5%
- Adjustment (hub, zero point): mechanically
- Protection class DIN 40050: IP67

Please request this option.

Optional available:
The GMV3197 as 3/2-way-pilot valve, direct force operated, for control of the compressed air cylinder. If necessary for big nominal sizes we advise the GMV3164 for faster closing times.

You find detailed information in the product group „Solenoid valve“.

Appointment details:

1: Basistype: DSB6300
2: Connection size: 02-11 (see chart)
3: Material:
- 1. Body material
  A=Brass
  B=Red brass
  O=Stainless steel
- 2. Spindle sealing and
  3. Seat sealing
  B=NBR
  E=EPDM
  T=PTFE
  V=FKM
4. Nominal size in 1/10mm (s. chart)

Demands on your application conditions that are not listed on the data sheet, can be requested!

The guide book and the maintenance guidelines, particularly the given safety instructions have to be paid attention to before the installation!