3/2-WAY PRESSURE OPERATED VALVE, DIRECT FORCE OPERATED

**Application area:**
- viscosity 600mm²/s
- medium temperature -20°C to +200°C (PTFE/FKM)
- ambient temperature -10°C to +35°C
- operating pressure up to 40bar (see chart).
- control pressure 4 up 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

**Description:**
- 3/2-way pressure operated seat valve
- seat valve with plunger washer
- direct force operated
- body in red brass, or stainless steel
- female thread ISO228
- optional installation position

**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.

The sealing at the actuator is HNBR up to +200°C.

**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“.

Valves of this line are available with a **pressure cylinder in universal design (-UN)**. This affords an Dies ermöglicht Ihnen die Beaufschlagung mit Druck an beliebigen Eingängen.

### Pos. | Component | Brass | Stainless steel | Optional material
--- | --- | --- | --- | ---
1 | Body | Red brass | Stainless steel | O
2 | Seat sealing | PTFE-Bronze | PTFE | T
3 | Cylinder | 50: Brass | 50: Brass | A
4 | 80/125: Aluminium | 80/125: Aluminium | Z
5 | Spindle sealing | PTFE-Coal | PTFE | T

**Options:**
- PV: Pilot valve GMV3197 / GMV3164
- OF: Free of oil and grease
- DW: Actuator double-acting
- PS: Optional position indication (NO and double-acting)
- PS: Electrical position indication (limit switch)
- HA: Manual override
- VU: Vacuum design with soft sealing
- UW: Male thread with screw connection
- AS: Welding ends
- MV: Milk pipe connection
- UN: Reciprocally flown through (mix/spread)

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You find information about the appointment code under „Appointment details“. An overview of the complete material code is in the catalog at the beginning of the chapter of the respective product group.
### 3/2-WAY PRESSURE OPERATED VALVE, DIRECT FORCE OPERATED

**Body red 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**</th>
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<tr>
<td>DSA7800-04BUR-180-xxx</td>
<td>1/2 18 50</td>
<td>12A 0-12 22A</td>
<td>L 100 210 73 62</td>
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**Body stainless steel**

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*declared is the maximal pressure range at a control pressure of 6bar

**KV-Value:** The nominal flow of KV to VDI/VDE 2173 indicates the water amount in cubic metres per hour, at 100% opened armature, Δp=1 bar and at a water temperature from 5 to 30°C.
Functions:
closed in rest position (NC):
Type 1xx: closing with the medium, single-acting. With liquids there can occur closing and opening strokes.

opened in rest position (NO):
Type 2xx: closing with the medium, single-acting

optional flow pattern: (Option -UN):
Type 1xx-UN: for optional flow pattern, function mix or spread

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: DSA7800
2: Connection size:
   - 04-09 (see chart)
   - 24-29 (welding ends)
3: Material:
   - 1. Body material
     A = Brass
     B = Red brass
     O = Stainless steel
   - 2. Spindle sealings and
     T = PTFE
     U = PTFE-Bronze
     R = PTFE-Coal
   - 3. Seat sealings
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!