Technical features

- **Medium:**
  - Aggressive gases and liquids
  - Neutral gases max. +60°C (+140°F)
  - Pilot fluid:
    - Neutral gases max. +60°C (+140°F)

- **Switching function:**
  - Normally closed
  - Blocked

- **Operation:**
  - Pressure actuated by external fluid

- **Mounting position:**
  - Optional

Flow direction: Determined

Fluid temperature:
- –10 ... +180°C (+14 ... +356°F)
- Ambient temperature:
  - –10 ... +60°C (+14 ... +140°F)

Material:
- Process fluid characteristics:
  - Body: Stainless steel (1.4581)
  - Seat seals: PTFE
  - Internal parts: Stainless steel, 1.8159, 1.1200
- Pilot fluid characteristics:
  - Body: Polyamid 66 with glass fibre 30%
  - Seat seals: NBR
  - Internal parts: Brass, stainless steel

Technical data – standard models

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port size</th>
<th>Orifice (mm)</th>
<th>Flow kv value *1) (m³/h)</th>
<th>Operating pressure *2) (bar)</th>
<th>Weight (kg) *3)</th>
<th>Model *3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/2</td>
<td>15</td>
<td>4,8</td>
<td>0 ... 16 (25)</td>
<td>0 ... 23 (165)</td>
<td>1,4</td>
<td>8452200.0000.000000</td>
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<tr>
<td>1/2 NPT</td>
<td>15</td>
<td>4,8</td>
<td>0 ... 16 (25)</td>
<td>0 ... 23 (165)</td>
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<td>G3/4</td>
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<td>10</td>
<td>0 ... 10 (16)</td>
<td>0 ... 145 (165)</td>
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<tr>
<td>3/4 NPT</td>
<td>20</td>
<td>10</td>
<td>0 ... 10 (16)</td>
<td>0 ... 145 (165)</td>
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<td>G1</td>
<td>25</td>
<td>14</td>
<td>0 ... 10</td>
<td>0 ... 145</td>
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<td>1 NPT</td>
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<td>14</td>
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<td>0 ... 145</td>
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<td>0 ... 7</td>
<td>0 ... 101</td>
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<td>0 ... 101</td>
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<tr>
<td>G1 1/2</td>
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<td>30</td>
<td>0 ... 4,5</td>
<td>0 ... 65</td>
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<tr>
<td>G2</td>
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<td>37</td>
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<td>37</td>
<td>0 ... 3</td>
<td>0 ... 43</td>
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</tbody>
</table>

*1) Cv-value (US) = kv value x 1,2

*2) For gases and liquid fluids up to 600 mm²/s (cSt)

*3) Without pilot valve
Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2014 - 5722g) © 2015 Buschjost GmbH

**Section View**

G1/2 ... 2
1/2 ... 2 NPT

**Option selector**

<table>
<thead>
<tr>
<th>Thread form</th>
<th>Substitute</th>
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</thead>
<tbody>
<tr>
<td>ISO G</td>
<td>2</td>
</tr>
<tr>
<td>NPT</td>
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</table>

<table>
<thead>
<tr>
<th>Port size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
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<tr>
<td>3/4</td>
<td>3</td>
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<tr>
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<td>4</td>
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</tr>
<tr>
<td>1 1/2</td>
<td>6</td>
</tr>
<tr>
<td>2</td>
<td>7</td>
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**845★★★★.0000.00000**

**Valve options**

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<tbody>
<tr>
<td>01</td>
</tr>
<tr>
<td>06</td>
</tr>
<tr>
<td>23</td>
</tr>
</tbody>
</table>

**Notes for 3/2-way pilot valve 84660 / 84680**

**Material**

Body Aluminium

**Pilot fluid temperature**

max. +60°C (+140°F)

**Pilot pressure**

1 ... 10 bar (14 ... 145 psi)

**Standard voltages**

24 V d.c., 24 V a.c., 230 V a.c.

**Notes for 3/2-way pilot vale 97100 hole pattern NAMUR**

**Material**

Body Aluminium elox

**Pilot fluid temperature**

−10 ... +50°C (+14 ... +122°F)

**Pilot pressure**

2 ... 8 bar (14 ... 116 psi)

**Standard voltages**

24 V d.c., 24 V a.c., 230 V a.c.

**Electrical Data for 3/2-way pilot valve 84660 / 84680**

Design acc. to DIN VDE 0580

Voltage range ±10%

Duty cycle 100% ED

Protection class EN 60529 IP65 with mounted socket

Socket Form A acc. to DIN EN 175301-803 (included)

Technical data See publication N/en 5.8.640

**Electrical Data for 3/2-way pilot valve 97100 hole pattern NAMUR**

Design acc. to DIN VDE 0580

Voltage range ±10%

Duty cycle 100% ED

Protection class EN 60529 IP65 with mounted socket

Socket Form A acc. to DIN EN 175301-803 (included)

Technical data See publication N/en 5.4.372

Further versions on request!

**Mounting accessories (NAMUR)**

Interface plate NAMUR hole pattern for retrofit (Part-Number 1256566) consist of:

1x NAMUR-interface plate; 2x Adapter screw; 2x O-ring

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**Thread form Substitute**

ISO G 2

NPT 3

**Port size Substitute**

1/2 2

3/4 3

1 4

1 1/4 5

1 1/2 6

2 7

**Notes for 3/2-way pilot valve 84660 / 84680**

- These individual parts form a complete wearing unit.
- When ordering spare parts please state Model No. and Series No.
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Note to Pressure Equipment Directive (PED):
The valves of this series up to and including DN 25 (G1) are according to Art. 4 § 3 of the Pressure Equipment Directive (PED) 2014/68/EU. This means interpretation and production are in accordance to engineers practice wellknown in the member countries. The CE-sign at the valve does not refer to the PED. Thus the declaration of conformity is not longer applicable for this directive.

For valves > DN 25 (G1) Art. 4 § (1) Letter d) applies:
The basic requirements of the Enclosure I of the PED must be fulfilled. The CE-sign at the valve includes the PED. A certificate of conformity of this directive will be available on request.

Note to Electromagnetic Compatibility Guideline (EEC):
The valves shall be provided with an electrical circuit which ensures the limits of the harmonised standards EN 61000-6-3 and EN 61000-6-1 are observed, and hence the requirements of the Electromagnetic Compatibility Guideline (2014/30/EU) satisfield.

Note to EAC marking:
The EAC-marked products comply with the applicable requirements stated in the technical regulations of the Eurasian Economic Union.