The 6520 EExi valves are used for process actuation in hazardous areas. Thanks to the intrinsically safe design and the choice of corrosion resistant materials, the valves can be used in a wide variety of demanding applications. The NAMUR flange allows easy mounting directly to process valves. Due to the low power consumption, up to 4 valves can be connected to the Profibus PA I/O-Box 8642. The circuit function of the 6520 can easily be changed from H (5/2-way) to C (3/2-way) simply by changing the adapter plate, which is within scope of supply.

**Process Specification**

- **U_i**: 35 V
- **I_i**: 0.9 A
- **P_i**: 225 mW
- Nominal voltage: > 16 V
- Electrical connection: 1 x PG9
- Duty cycle: 100% continuously rated

**Pneumatic connections**

- Supply port: 1, 3 and 5: G 1/4
- Service port: 2 and 4: NAMUR flange

**Protection class**: IP 65 with cable plug

**Materials**

- Pilot valve: Aluminum, anodized
- Body: PA
- Supply ports: Brass, nickel-plated or stainless steel
- Seal: NBR, FPM, PUR
- Fluids: Unlubricated instrument air, neutral gases
- Media temperatures: -20 up to +50°C
- Ambient temperatures: -20 up to +55°C
- Mounting position: Any, preferably solenoid system upright

**Applications: Target markets**

- Chemical industry
- Pharmaceutical processing equipment
- Industrial waste water treatment
- Oil and gas industry
### Technical Data

#### Circuit Function

**C** 3/2-way valve, servo-assisted, in de-energized position, port 2 connected to port 4

**H** 5/2-way valve, servo-assisted, in de-energized position, port 2 pressurized and port 4 exhausted

#### Flow rate: QNn-value air [l/min]

Measured at +20°C, 6 bar pressure at valve inlet and 1 bar pressure difference

#### Pressure ranges [bar]

Measured as overpressure to the atmospheric pressure

#### Response times [ms]

Measured at valve outlet at 6 bar and +20°C

- **Opening**: Pressure rise from 0 to 90%
- **Closing**: Pressure drop from 100 to 10%

#### Specifications - Ordering Chart (Other Versions on Request)

<table>
<thead>
<tr>
<th>Type</th>
<th>Circuit function</th>
<th>Supply port material</th>
<th>Port connection 2 and 4</th>
<th>Port connection 1, 3 and 5</th>
<th>Orifice DN [mm]</th>
<th>Min. air flow supply [l/min]</th>
<th>QNn-Value (air) [l/min]</th>
<th>Pressure range [bar]</th>
<th>Item-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6520</td>
<td>H or C</td>
<td>Brass, nickel-plated</td>
<td>NAMUR</td>
<td>G 1/4</td>
<td>6.0</td>
<td>≥ 150</td>
<td>380 **</td>
<td>2.5 – 7.0</td>
<td>141 722 S</td>
</tr>
<tr>
<td>6520</td>
<td>H or C</td>
<td>Brass, nickel-plated</td>
<td>NAMUR</td>
<td>G 1/4</td>
<td>6.0</td>
<td>≥ 270</td>
<td>900</td>
<td>2.5 – 7.0</td>
<td>136 667 W</td>
</tr>
<tr>
<td>6520</td>
<td>H or C</td>
<td>Stainless steel*</td>
<td>NAMUR</td>
<td>G 1/4</td>
<td>6.0</td>
<td>≥ 150</td>
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<td>900</td>
<td>2.5 – 7.0</td>
<td>139 374 B</td>
</tr>
</tbody>
</table>

* For versions with stainless steel supply port, fixing and connection screws are as well made of stainless steel

** Version for supply with reduced flow

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**In case of special application requirements, please consult for advice.**

We reserve the right to make technical changes without notice.

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