The valves are based on a modular concept comprising two basic elements: Valve body and push-over coil with moulded-in cable or with terminal box.
The valve body consists of a body to which the armature guide tube containing the plunger, seals and springs is attached.
The coil is pushed over the guide tube and thus isolated from the medium.
The medium is only in contact with the valve internals and body. Valves are available in polyamide, brass or stainless steel, all with high quality FKM seals as standard.

### Operating Data – Valve
- **Pressure range**: 0 – 10 bar (see specifications)
- **Port Connections**: Threaded port G 1/8” – G 1/4” or Sub-base connection
- **Orifice**: DN 2.0 up to 6.0 mm
- **Fluids**
  - Brass: Neutral gases and liquids, e.g. compressed air, town gas, natural gas, water, hydraulic oil and petrol
  - Stainless Steel: Difficult and slightly aggressive media, Suitable for technical vacuum
- **Temperatures**
  - Medium: -10 up to +90°C
  - Ambient: -30 up to +60°C
- **Max. viscosity**: 21 mm²/s
- **Response times**
  - Opening: AC, DC 20 ms
  - Closing: AC, DC 30 ms
- **Installation**: As required, but preferably with solenoid system upright

### Operating Data – Actuator
- **Operating voltages**: 24, 110, 230 V/UC
- **Voltage tolerance**: ± 10%
- **Duty cycle**: 100% continuously rated
- **Cycling rate**: up to 1’000 c.p.m.
- **Rating**: IP65
- **Approvals**
  - EEx m II T4 with moulded cable
  - EEx me II T4 with terminal box

### Applications:
- Chemical industry
- Pharmaceutical processing equipment
- Industrial waste water treatment
- Oil and gas industry
## Compact Solenoid Valve
### Threaded Port G 1/8 – G 1/4; Sub-base Connection

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

**EEx m II T4 approved**

Seal material FKM, moulded cable (3 m), single mounting only, without manual override

<table>
<thead>
<tr>
<th>Circuit function</th>
<th>Orifice DN [mm]</th>
<th>Orifice connection</th>
<th>Kv-Value (water) [m³/h]</th>
<th>Power consumption [W]</th>
<th>Pressure range [bar]</th>
<th>Voltage/Frequency [V/Hz]</th>
<th>Item-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2.0</td>
<td>G 1/8</td>
<td>0.12</td>
<td>9</td>
<td>0 – 10.0</td>
<td>24/UC</td>
<td>139 909 P</td>
</tr>
<tr>
<td>A</td>
<td>2.0</td>
<td>G 1/8</td>
<td>0.12</td>
<td>9</td>
<td>0 – 10.0</td>
<td>24/UC</td>
<td>139 909 S</td>
</tr>
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<td>0.12</td>
<td>9</td>
<td>0 – 10.0</td>
<td>24/UC</td>
<td>139 909 V</td>
</tr>
</tbody>
</table>

**EEx me II T4 approved**

Seal material FKM, terminal box (not fused), single mounting only, without manual override

<table>
<thead>
<tr>
<th>Circuit function</th>
<th>Orifice DN [mm]</th>
<th>Orifice connection</th>
<th>Kv-Value (water) [m³/h]</th>
<th>Power consumption [W]</th>
<th>Pressure range [bar]</th>
<th>Voltage/Frequency [V/Hz]</th>
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<td>139 909 V</td>
</tr>
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</table>

### Accessories (Medium Slow to Blow Fuses)

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<td>800</td>
<td>153 737 V</td>
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<tr>
<td>110</td>
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<td>160</td>
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</tr>
<tr>
<td>230</td>
<td>7</td>
<td>80</td>
<td>006 840 A</td>
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<td>240</td>
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<td>100</td>
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</tr>
<tr>
<td>230</td>
<td>9</td>
<td>100</td>
<td>007 068 C</td>
</tr>
</tbody>
</table>
Compact Solenoid Valve
Threaded Port G 1/8 – G 1/4; Sub-base Connection

Materials

1. Valve body: Brass, SS 1.4305 (G1/8") SS 1.4401 (G1/4")
2. Plunger-seal: FKM
3. O-rings: FKM
4. Armature guide tube: 1.4303
5. Plunger: 1.4105
6. Spring: 1.4310
7. Shading ring: Cu (brass version) Ag (stainless steel version)
8. Stopper: 1.4105
9. Flange: Zn3 gl cc (surface)
10. Bonnet: Durethan BKV30H
11. Coil: PA (Polyamide)
12. Flat seal: NBR
13. Cable plug: PA (Polyamide)
14. Locknut: 9SMnPb28K (surface Zn5glcA)

Dimensions [mm]

With cable

Threaded version

Sub-base version

Armature

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Coil size</th>
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<tr>
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<td>20.8</td>
<td>32.6</td>
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<tr>
<td>1/4</td>
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<td>26.8</td>
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<td>40</td>
<td>51</td>
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<tr>
<td>Sub-base</td>
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<td>14.3</td>
<td>32.6</td>
<td>32</td>
<td>45</td>
</tr>
</tbody>
</table>

Process Valves, 5 Caulside Drive, Antrim, Northern Ireland, BT41 2DU
www.process-valves.com, sales@pneutrol.com, Tel +44 (0) 28 9448 1809
Compact Solenoid Valve
Threaded Port G 1/8 – G 1/4; Sub-base Connection