Indirect solenoid actuated spool valves

> Port size: G1/4 and NAMUR interface
> For single and double operated actuators
> Standard manual override with detent
> Simple design of soft spool seal system
> Compact design, high flow rate
> Easily interchangeable solenoid system
> Maintenance-free
> Valves and solenoids are ATEX approved (see table)

**Technical features**

**Medium:**
Compressed air, filtered, lubricated or non-lubricated

**Operation:**
Solenoid, indirectly controlled

**Operating pressure:**
2 ... 8 bar (29 ... 116 psi)

**Orifice:**
6 mm

**Ambient/Media temperature:**
-10° ... +50°C (+14° ... +122°F)

**Materials:**
Housing: Aluminium
Pilot flange: Plastic
Seat seal: NBR

**Technical data**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Ports 1, 3 (5)</th>
<th>Actuation</th>
<th>Nominal size</th>
<th>Operating pressure (bar)</th>
<th>kv-value (Cv (US) ≈ kv x 1,2)</th>
<th>Weight (kg)</th>
<th>Dimension No.</th>
<th>Model</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>G 1/4 Flange Solenoid indirectly controlled</td>
<td>6</td>
<td>2 ... 8</td>
<td>1,2</td>
<td>0,4</td>
<td>1</td>
<td>8010777</td>
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<tr>
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<td>G 1/4 Flange Solenoid indirectly controlled</td>
<td>6</td>
<td>2 ... 8</td>
<td>1,2</td>
<td>0,55</td>
<td>2</td>
<td>2623077</td>
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<td>G 1/4 Flange Solenoid indirectly controlled</td>
<td>6</td>
<td>2 ... 8</td>
<td>1,2</td>
<td>0,9</td>
<td>3</td>
<td>2623177</td>
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</tbody>
</table>

**3/2 or 5/2 way function (conversion instruction see page 6)**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Ports 1, 3 (5)</th>
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<td>1,2</td>
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<td>G 1/4 Flange Solenoid indirectly controlled</td>
<td>6</td>
<td>2 ... 8</td>
<td>1,2</td>
<td>0,9</td>
<td>5</td>
<td>2623179</td>
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</table>

*1) When ordering please indicate solenoid, voltage and current type (frequency).
## Solenoid actuators

<table>
<thead>
<tr>
<th>Model</th>
<th>Power consumption 24 V d.c. (W)</th>
<th>Rated current 24 V d.c. (m A)</th>
<th>Protection class IP/NEMA</th>
<th>Temperature Ambient/ Media (°C)</th>
<th>Electrical connection</th>
<th>Weight (kg)</th>
<th>Drawing No.</th>
<th>Circuit diagram No.</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,8</td>
<td>70</td>
<td>IP65 (with connector)</td>
<td>-15 ... +50</td>
<td>Connector DIN EN 175301-803, form B *1)</td>
<td>0,1</td>
<td>11</td>
<td>1</td>
<td>3050</td>
<td></td>
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<tr>
<td>1,6</td>
<td>30</td>
<td>IP65 (with connector)</td>
<td>-15 ... +50</td>
<td>Connector DIN EN 175301-803, form A *1)</td>
<td>0,1</td>
<td>12</td>
<td>1</td>
<td>3036</td>
<td></td>
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<tr>
<td>2,7</td>
<td>115</td>
<td>IP65 (with connector)</td>
<td>-20 ... +50 *2)</td>
<td>Cable length 3 m</td>
<td>0,3</td>
<td>13</td>
<td>14</td>
<td>3062</td>
<td></td>
</tr>
<tr>
<td>2,1</td>
<td>9</td>
<td>IP65 (with connector)</td>
<td>-20 ... +50 *2)</td>
<td>Cable length 3 m</td>
<td>0,3</td>
<td>13</td>
<td>15</td>
<td>3063</td>
<td></td>
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<tr>
<td>2,7</td>
<td>115</td>
<td>IP66 (with connector)</td>
<td>-10 ... +50</td>
<td>Connector *1) M12x1, DIN IEC 61076-2-101 Solenoid with yellow LED</td>
<td>0,1</td>
<td>14</td>
<td>17</td>
<td>3071</td>
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</table>

Standard voltages (±10%) 24 V d.c., 230 V a.c., other voltages on request.

*1) Connector is not scope of delivery, see table «Accessories»

## Approvals

<table>
<thead>
<tr>
<th>Model</th>
<th>Approvals ATEX</th>
<th>IECEx</th>
<th>FM</th>
<th>Datasheet</th>
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<tr>
<td>306x</td>
<td>PTB 03 ATEX 2015</td>
<td>—</td>
<td>—</td>
<td>N/en 7.1.560</td>
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<tr>
<td>307x</td>
<td>EC-Declaration of Conformity</td>
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<td>N/en 7.1.565</td>
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## Accessories

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<thead>
<tr>
<th>Connector Form A</th>
<th>M12 x 1</th>
<th>Silencer</th>
<th>Flange plate</th>
<th>Yoke</th>
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<tbody>
<tr>
<td>Form A</td>
<td>M12 x 1</td>
<td>Page 7</td>
<td>Page 7</td>
<td>Page 7</td>
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</table>

<table>
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<tr>
<th>Model</th>
<th>Connector Form A</th>
<th>M12 x 1</th>
<th>Silencer</th>
<th>Flange plate</th>
<th>Yoke</th>
</tr>
</thead>
<tbody>
<tr>
<td>0570275 (form A)</td>
<td>0523055 (without cable)</td>
<td>0523056 (90°, without cable)</td>
<td>M/S2 G1/4</td>
<td>0612790 (NAMUR single connection plate)</td>
<td>0540593</td>
</tr>
<tr>
<td>0680003 (form B)</td>
<td>0523057 (2 m cable)</td>
<td>0523058 (90°, 2 m cable length)</td>
<td>M/S2 G1/4</td>
<td>0612791 (NAMUR-rip use in combination with 0612790, Alu)</td>
<td>0540593</td>
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<tr>
<td>0523052 (5 m cable)</td>
<td>0523053 (90°, 5 m cable length)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
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</tbody>
</table>
Dimensions
Valves

1. Solenoid 90° turnable
2. Manual override with detent
3. NAMUR centering hole

Dimensions in mm
Projection/First angle
26230, 80107 NAMUR 3/2 & 5/2
Indirect solenoid actuated spool valves

Dimensions in mm
Projection/First angle

en 5.4.302.04
Dimensions

Solenoid operators

Electrical connection M 12 x 1

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
<th>Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>+ UB</td>
<td>brown</td>
</tr>
<tr>
<td>2</td>
<td>Out 2 (PNP) / analogue 4 to 20 mA</td>
<td>white</td>
</tr>
<tr>
<td>3</td>
<td>0 Volt</td>
<td>blue</td>
</tr>
<tr>
<td>4</td>
<td>Out 1 (PNP)</td>
<td>black</td>
</tr>
</tbody>
</table>

Circuit diagrams
NAMUR hole pattern (driving side)

![Diagram of NAMUR hole pattern (driving side)](image)

Port 2 (A)
- Coding stud threaded
- M5 (10 deep)
- Port 3 (R)

NAMUR quick exhaust module for a better
kv-value by exhaust see data sheet 5.4.820

NAMUR interlinking plates in redundancy design
for «safety exhausting» and «safety ventilating»
see data sheet 5.4.830

Conversion instructions of
5/2 into 3/2 way function

5/2 way function (original mode of supply)

3/2 way function

3/2 resp. 5/2 way function can be achieved just
by swapping enclosed adaptor plates. Make sure
Marker and Arrow do match as shown on above
drawing. Original mode of supply: 5/2 function.
Single connection plate
Model: 0612790

NAMUR slot
Model: 0612791

Yoke
Model: 0540593

Silencer
Model: M/S2

Warning
These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under «Technical features/data».

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.