**Technical features**

**Medium:**
Air, neutral gases and liquids

**Operation:**
Direct acting 2-way and 3-way valves, normally closed and normally opened, latching

**Operating pressure:**
0 ... 100 bar (0 ... 1450 psi)

**Flow kv factor:**
0,15 ... 14 (Cv: 0.01 ... 1)

**Mounting:**
G1/4 others on request

**Orifice:**
2/2: 0.5 ... 8 mm (0.02 ... 0.31")
3/2: 0.8 ... 3 mm (0.02 ... 0.12")

**Port size:**
G1/4, G1/8, M5, CNOMO

**Response time:**
10 ... 15 ms

**Response time measured according to ISO 12238**

**Ambient/media temperature:**

- **Ambient:**
  -15 ... +50 °C (+5 ... +122°F)

- **Media:**
  -15 ... +140 °C (+5 ... +284°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2 °C (+35°F).

**Electrical details**

- **Voltage:**
  24 V d.c.

- **Voltage tolerances:**
  -10 % ... +15 %

- **Electrical insulation:**
  2000 V a.c.

- **Power consumption (nominal at 20°C):**
  10 W

- **Insulation class:**
  H (180 °C)

- **Duty cycle:**
  100% ED

**Protection class according to EN 60529:**
IP 65 with connector

**Electrical connection**
Interface according to DIN EN 175301-803, Form A

**Coil orientation**
Rotatable 360°

**Coil mounting**
M8 x 0.75 mm nut

**Following options on request**

- **Mounting (See on request alternative pneumatic connections):**
  Flow rate, orifice size, kv

- **Materials:**
  Body in contact with media:
  Stainless steel, brass, PA

- **Seal in contact with media:**
  NBR, FPM, EDPM

- **Override:**

- **Operating pressure (On request incl. vacuum (10-3 torr):**

- **Voltage:**

- **Power consumption:**

- **Electrical connection:**

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### Technical data - standard models, G1/4

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port size</th>
<th>Function</th>
<th>Orifice</th>
<th>Operating pressure (bar)</th>
<th>kv *1</th>
<th>Voltage (V d.c.)</th>
<th>Power consumption (W)</th>
<th>Seal/Body Material</th>
<th>Drawing No.</th>
<th>Model</th>
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<tbody>
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<td>G1/4</td>
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<td>0.5</td>
<td>0 ... 100</td>
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<td>10</td>
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<td>04-321-206-20+ACC</td>
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</tr>
</tbody>
</table>

*1) Cv - Value in [gal/min] = kv x 0.07; kv for 3/2 way valves represents flow value between ports 2 and 3

### Accessories

**Electrical connector**
DIN EN 175301-803, Form A

![Electrical connector](N040.1001)
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Dimensions shown in mm

FAS 32 mm BACOSOL
Direct acting solenoid valve

Port identification for
BACOSOL, BACOSOL V-type,
BACOSOL VL-type and
BACOSOL CNOMO-type

<table>
<thead>
<tr>
<th>Ports</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/2 NC</td>
<td>A</td>
<td>P</td>
<td>–</td>
</tr>
<tr>
<td>2/2 NC latching</td>
<td>A</td>
<td>P</td>
<td>–</td>
</tr>
<tr>
<td>2/2 NO</td>
<td>–</td>
<td>P</td>
<td>A</td>
</tr>
<tr>
<td>3/2 NC</td>
<td>P</td>
<td>A</td>
<td>R</td>
</tr>
<tr>
<td>3/2 NC latching</td>
<td>P</td>
<td>A</td>
<td>R</td>
</tr>
<tr>
<td>3/2 NO</td>
<td>R</td>
<td>A</td>
<td>P</td>
</tr>
</tbody>
</table>

P = Inlet; A = Outlet; R = Exhaust
Please refer to marking on the valve body for flow direction or port identification.

Dimensions

Alternative pneumatic connections on request
V-Type connection
(available for 2/2 and 3/2 valves)

VL-Type connection
(available for 3/2 NC valves only)

Manual override

All valves are supplied with mounting screws and gasket.
FAS 32 mm BACOSOL
Direct acting solenoid valve

VR-Type connection
(available for 3/2 NO valves)

CNOMO-Type connection
(available for 2/2 NC & 3/2 NC valves)

Dimensions shown in mm
Projection/First angle

Port identification for BACOSOL VR-type

<table>
<thead>
<tr>
<th>Ports</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/2 NO</td>
<td>P</td>
<td>A</td>
<td>R</td>
</tr>
</tbody>
</table>

P = Inlet; A = Outlet; R = Exhaust

Warning

These products are intended for use in air, neutral gas and liquid systems only. Do not use these products where pressures and temperatures can exceed those listed under «Technical features».

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 FAS.

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.