MINI-SOLENOID VALVES
ISO 15218 (CNOMO, size 15) interface
direct operated, pad mounting body
connector size 15

FEATURES
- Compact, monobloc solenoid pilot valve with spade-plug connector type EN 175301-803, industry standard form C, with 9.4 mm spacing, or to EN 175301-803, form C, with 8 mm spacing
- Version with or without integrated LED and electrical protection
- LED indicator visible from 3 sides
- The solenoid valves satisfy all relevant EU directives

GENERAL
Differential pressure
See «SPECIFICATIONS» [1 bar = 100 kPa]
Pneumatic base
ISO 15218 (CNOMO E06.36.120N, size 15)
Connection
Subbase
Response time
8 - 15 ms

fluids (+) temperature range (TS) seal materials (+)
air or inert gas
filtered at 50 µm, lubricated or not
-25°C to +60°C (LP2) 1)
-25°C to +60°C/ +50°C (LP3) 2)
NBR (nitrile)
FPM (fluoroelastomer)

1) LP2, LP3: see "electrical characteristics" table

MATERIALS IN CONTACT WITH FLUID
(+): Ensure that the compatibility of the fluids in contact with the materials is verified
Body PARA
Internal parts POM, PET, stainless steel and brass
Seals NBR (disc), FPM (others)
Pneumatic interface seal TPE

OTHER MATERIALS
Coil Thermoplastic PET

ELECTRICAL CHARACTERISTICS
Coil insulation class
F
Connector Spade plug (cable Ø 4-6 mm)
Connector specification
EN 175301-803, industry standard form B (9.4 mm) or EN 175301-803, form C (8 mm)
IEC 335 3)
Electrical safety
Moulded IP65 (EN 60529)
Electrical enclosure protection
DC (-): 24V
Standard voltages
(Other voltages on request)
AC (-): 24V - 115V - 230V / 50-60 Hz

| coils | power ratings (V) | power ratings (W) | type (°)
|-------|-------------------|-------------------|----------
| LP2   | 24-115            | 1,4               | 01       |
| LP3   | 230               | 2,1               |          |

(°) Refer to the dimensional drawings on the following page.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>orifice size</th>
<th>flow at 6 bar l/min (ANR)</th>
<th>coefficient Kv</th>
<th>operating pressure differential (bar)</th>
<th>power ranges</th>
<th>basic catalogue number</th>
</tr>
</thead>
<tbody>
<tr>
<td>(mm)</td>
<td>1 2 3</td>
<td>1 2 3</td>
<td>min. max. (PS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.6</td>
<td>11 20</td>
<td>0.11 0.26</td>
<td>0 10</td>
<td>LP2</td>
<td>30211007</td>
</tr>
<tr>
<td>0.8</td>
<td>17 28</td>
<td>0.22 0.35</td>
<td>0 8</td>
<td></td>
<td>30210100 30210010</td>
</tr>
<tr>
<td>1.1</td>
<td>32 51</td>
<td>0.35 0.50</td>
<td>0 5</td>
<td></td>
<td>30210101 30210010</td>
</tr>
<tr>
<td>1.5</td>
<td>39 53</td>
<td>0.50 0.56</td>
<td>0 6</td>
<td></td>
<td>30210225 30210225</td>
</tr>
</tbody>
</table>

NC - Normally closed (Without LED and protection)

NC - Normally closed (With LED and protection) 4)

When ordering, please specify in addition to the basic catalogue number:
- The type of current: voltage / frequency + the version: with or without connector
- Examples: with connector 24V DC: 30211007-D 24V DC
- without connector 24V DC: 30210007--P 24V DC

All leaflets are available on: www.asco.com

Solenoid valves (2/2) - 9
OPTIONS AND ACCESSORIES

- Seals and disc made of FPM (fluoroelastomer)
- Versions without manual operator and NO (Normally Open): contact us
- Version with pneumatic-electric interface
- Version 12 V DC, LP2, connector EN 175301-803, industry standard form C (9.4 mm)
- Connector EN 175301-803, form C (8 mm):
  - standard: catalogue number 8813021
  - with cable 2 m length: Contact us
- Connector EN 175301-803, industry standard form C (9.4 mm):
  - standard: catalogue number 88143581
  - with cable 2 m length: catalogue number 88143567
- Explosionproof enclosures for use in zones 0/20-1/21-2/22, categories 1-2-3 to ATEX-Directive 2014/34/EU (see “Explosionproof solenoids” section)

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valve supplied with mounting screws and mounting pad seal(s)
- Installation/maintenance instructions are included with each valve

DIMENSIONS (mm), WEIGHT (kg)

TYPE 01
IEC 335 / EN 175301-803
IP65

Subbase mounting surface: ISO 15218
(CNOMO E06.36.120N, size 15)

1 Manual operator location
2 2 mounting screw M3 x 20
3 Version with LED and electrical protection

(1) with standard connector.
FEATURES
• Compact, monobloc solenoid pilot valve with M12 connector or cable ends
• Version with integrated LED indicator and electrical protection.
  LED indicator visible from 3 sides
• The solenoid valves satisfy all relevant EU directives

GENERAL
Differential pressure
Pneumatic base
Connection
Response time

<table>
<thead>
<tr>
<th>fluids (+)</th>
<th>temperature range (TS)</th>
<th>seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>air or inert gas filtered at 50 µm, lubricated or not</td>
<td>-25°C to +60°C (LP2)</td>
<td>NBR (nitrile)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FPM (fluoroelastomer)</td>
</tr>
</tbody>
</table>

(1) LP2: see “electrical characteristics” table

MATERIALS IN CONTACT WITH FLUID
(+) Ensure that the compatibility of the fluids in contact with the materials is verified

Body
Internal parts
Pneumatic interface seal

OTHER MATERIALS
Coil

ELECTRICAL CHARACTERISTICS
Coil insulation class
Connection
Electrical safety
Connector M12
Cable ends
Electrical enclosure protection

Standard voltages

<table>
<thead>
<tr>
<th>coils</th>
<th>power ratings (+)</th>
<th>type (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>power ranges</td>
<td>voltages (V)</td>
<td>inrush (VA)</td>
</tr>
<tr>
<td>DC (=) : 24V</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) LP2: refer to the dimensional drawings on the following page. (2) For joinable subbase mounting, see pages suivantes.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>orifice size (mm)</th>
<th>flow coefficient</th>
<th>operating pressure differential (bar)</th>
<th>power ranges</th>
<th>basic catalogue number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DC (=) : 24V</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LP2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30212022</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30212023</td>
</tr>
</tbody>
</table>

When ordering:

- M12 cable
- with connector --D
- without connector --P
- complete --D

Examples:
- M12 with connector : 30212022--D
- M12 without connector : 30212022--P
- cable ends : 30213022--D
OPTIONS AND ACCESSORIES

- Seals and disc made of FPM (fluoroelastomer)
- Versions without manual operator and NO (Normally Open): contact us
- Version with pneumatic-electric interface
- Straight M12 connector:
  - with 5 m cable length: catalogue number 88130212
- Explosionproof enclosures for use in zones 0/20-1/21-2/22, categories 1-2-3 to ATEX-Directive 2014/34/EU (see "Explosionproof solenoids" section)

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valve supplied with mounting screws and mounting pad seal(s)
- Installation/maintenance instructions are included with each valve

DIMENSIONS (mm), WEIGHT (kg)

<table>
<thead>
<tr>
<th>TYPE 01</th>
<th>TYPE 02</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEC 335</td>
<td>IEC 335</td>
</tr>
<tr>
<td>Connection M12</td>
<td>Straight M12 connector, 5 m cable length</td>
</tr>
<tr>
<td>IP67</td>
<td>IP67</td>
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</table>

<table>
<thead>
<tr>
<th>Manual operator location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>function 1 2 3</td>
</tr>
<tr>
<td>NC</td>
</tr>
<tr>
<td>O: Outlet</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>M12 (1)</td>
</tr>
<tr>
<td>0,049</td>
</tr>
<tr>
<td>(1) Without connector</td>
</tr>
<tr>
<td>(2) With connector</td>
</tr>
<tr>
<td>cable ends</td>
</tr>
<tr>
<td>0,040</td>
</tr>
</tbody>
</table>

Subbase mounting surface: ISO 15218 (CNOMO E06.36.120N, size 15)
**MINI-SOLENOID VALVES SERIES 302**

**DIMENSIONS (mm), WEIGHT (kg)**

**Single subbase**

Aluminium or brass

![Diagram of Single subbase]

### Adapter CNOMO size 30

(only for NC version)

Aluminium

![Diagram of Adapter CNOMO size 30](image)

### Joinable subbases

Aluminium

![Diagram of Joinable subbases](image)

- **Ports 1 and 3:** G1/8
- **Port 2:** coupling for 4mm OD tube
- **1** Fixing hole Ø 3,2 (2 for 4x ; 1 for 2x)
- **2** Fixing hole M3, depth 8 (2 for 4x ; 1 for 2x)
- **3** Mating surface blanking plates (option)
- **4** TS35 DIN rail (not supplied)
- **5** Clip for DIN rail mounting (option)

**Mounting:**

1. 2 holes M3, depth 4,5
2. 2 screws M4 x 10 (supplied)

**Orifice (2) can be connected on the left or on the right of the subbase.**

<table>
<thead>
<tr>
<th>Material</th>
<th>Catalogue Number</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium</td>
<td>88263002</td>
<td>0,011</td>
</tr>
<tr>
<td>Brass</td>
<td>30300001</td>
<td>0,034</td>
</tr>
</tbody>
</table>

**Notes:**
- (1) subbase alone
- (2) adapter alone

**Solenoid valves**

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OPTIONS AND ACCESSORIES

- Additional subbase with 2 places (with seals): catalogue number 35500570
- 2 tie-rods + nuts for a subbase with:
  - 4 places: catalogue number 88100752
  - 6 places: catalogue number 88100753
  - 8 places: catalogue number 88100754
  - 10 places: catalogue number 88100755
  - 12 places: catalogue number 88100756
- Mounting kit for DIN rail (2 clips + screws + washers): catalogue number 88100757
- Mating surface blanking plate: catalogue number 88130203

AMBIENT TEMPERATURE RANGES

<table>
<thead>
<tr>
<th>current type</th>
<th>power range</th>
<th>power coil</th>
<th>inrush/ holding (VA)</th>
<th>version</th>
<th>hot/cold (W)</th>
<th>~hot/cold</th>
<th>~hot/cold</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC (=)</td>
<td>LP2 (1)</td>
<td>standard</td>
<td>-</td>
<td>-</td>
<td>1/1.2</td>
<td>-25°C ; +60°C</td>
<td>-25°C ; +60°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LED + protection</td>
<td>1.15/1.35</td>
<td>-</td>
<td>1/1.2</td>
<td>-25°C ; +60°C</td>
<td>-25°C ; +60°C</td>
</tr>
<tr>
<td>AC (=)</td>
<td>LP2 (2)</td>
<td>standard</td>
<td>-</td>
<td>-</td>
<td>2/2.65</td>
<td>-25°C ; +50°C</td>
<td>-25°C ; +40°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LED + protection</td>
<td>2/2.65</td>
<td>-</td>
<td>2/2.65</td>
<td>-25°C ; +50°C</td>
<td>-25°C ; +40°C</td>
</tr>
<tr>
<td></td>
<td>LP3 (2)</td>
<td>standard</td>
<td>-</td>
<td>-</td>
<td>2.15/2.8</td>
<td>-25°C ; +40°C</td>
<td>-25°C ; +40°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LED + protection</td>
<td>2.15/2.8</td>
<td>-</td>
<td>2.15/2.8</td>
<td>-25°C ; +40°C</td>
<td>-25°C ; +40°C</td>
</tr>
</tbody>
</table>

(1) Voltage: -15% / +20%
(2) Voltage: -15% / +10%