MICRO SOLENOID VALVES

direct operated
pad-mounting body
for subbase M3/M5

GENERAL
Fluid
Air or inert gas, non-lubricated, filtered at 25 µm
Operating pressure
7 bar max.
Ambient temperature
+5°C to +50°C
Flow (Qv at 6 bar)
See «SPECIFICATIONS»
Manual operator
Impulse-type (without manual operator on request)
Switching time
10 ms (<10 ms on request)

CONSTRUCTION
Body
PA (polyamide) MXD6
Internal parts
Stainless steel, nickel-plated steel, synthetic material, aluminium
Seals
NBR (nitrile), FPM (fluoroelastomer) on request

ELECTRICAL CHARACTERISTICS
voltage (other voltages on request)
24V = 12 V = 5 V =
consumption
1W - 1.3W
insulation class
F
degree of protection
IP 40
electrical connection
connector with two 0.5 mm² lead wires + built-in LED and electrical protection or cable ends, 0.5 m long

The solenoid valves are designed for continuous operation within the maximum ambient temperature limits.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>symbol</th>
<th>orifice size (mm)</th>
<th>flow at 6 bar l/min (ANR)</th>
<th>operating pressure (bar)</th>
<th>consumption (W)</th>
<th>type of electrical connection (♣)</th>
<th>catalogue number</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC</td>
<td>1    2</td>
<td>0.5 0.7</td>
<td>8 0.12</td>
<td>1,3</td>
<td>1,2,3, 4 with LED and electrical protection</td>
<td>18801003</td>
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<tr>
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<td>3    3</td>
<td>0.8 0.8</td>
<td>10 0.15</td>
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<td>4    4</td>
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<td>1,2,3, 4 with LED and electrical protection</td>
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<td>10 0.15</td>
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<td>1,2,3, 4 with LED and electrical protection</td>
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<td>1,2,3, 4 with LED and electrical protection</td>
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<td>10 0.15</td>
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<td>1,2,3, 4 with LED and electrical protection</td>
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<td>1,2,3, 4 with LED and electrical protection</td>
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<td>0.5 0.5</td>
<td>8 0.12</td>
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<td>1,2,3, 4 with LED and electrical protection</td>
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<td>10 0.15</td>
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<td>1,2,3, 4 with LED and electrical protection</td>
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<td>5    5</td>
<td>1.0 1.0</td>
<td>12 0.18</td>
<td>1,3</td>
<td>1,2,3, 4 with LED and electrical protection</td>
<td>18801092</td>
</tr>
</tbody>
</table>

(♣) Type 1,2,3, 4 with LED and electrical protection
1 = horizontal, width 5,08 mm
2 = vertical, width 5,08 mm
3 = horizontal, width 2,54 mm
4 = vertical, width 2,54 mm
5 = cable ends 0,5 m long, 0,25 mm²

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MICRO SOLENOID VALVES

direct operated, with latching coil
pad-mounting body
for subbase M3/M5

GENERAL
Fluid
Air or inert gas, non-lubricated, filtered at 25 µm
Operating pressure
8 bar max.
Ambient temperature
+5°C to +50°C
Flow (Qv at 6 bar)
See «SPECIFICATIONS»
Manual operator
Impulse-type (without manual operator on request)
Switching time
10 ms (<10 ms on request)

CONSTRUCTION
Body
PA (polyamide) MXD6
Internal parts
Stainless steel, nickel-plated steel, synthetic material, aluminium
Seals
NBR (nitrile), FPM (fluoroelastomer) on request

ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>voltage (other voltages on request)</th>
<th>consumption</th>
<th>insulation class</th>
<th>degree of protection</th>
<th>electrical connection</th>
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</thead>
<tbody>
<tr>
<td>24V = 1W - 1,3W</td>
<td></td>
<td>F</td>
<td>IP 40</td>
<td>connector with two 0,5 mm² lead wires, + built-in LED and electrical protection or cable ends, 0,5 m long</td>
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<td>12 V = (+10%, -15%)</td>
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<tr>
<td>5 V =</td>
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The solenoid valves are designed for continuous operation within the maximum ambient temperature limits.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>symbol</th>
<th>orifice size (mm)</th>
<th>flow at 6 bar l/min (ANR)</th>
<th>operating pressure (bar)</th>
<th>consumption (W)</th>
<th>type of electrical connection (*)</th>
<th>catalogue number</th>
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</tbody>
</table>

(*) Type 1,2,3, 4 with LED and electrical protection
1 = horizontal, width 5,08 mm
2 = vertical, width 5,08 mm
3 = horizontal, width 2,54 mm
4 = vertical, width 2,54 mm
5 = cable ends 0,5 m long, 0,25 mm²

WIRING DIAGRAM

FUNCTIONAL DIAGRAM

Consultez notre documentation sur : www.asco.com
**DIMENSIONS (mm), WEIGHT (kg)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight (kg)</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>0.0095</td>
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<tr>
<td>2</td>
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<td>3</td>
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<tr>
<td>4</td>
<td></td>
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<tr>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

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**Scale 1**

**MICRO SOLENOID VALVES - SERIES 188**

- **Type 1**
- **Type 2**
- **Type 3**
- **Type 4**
- **Type 5**

**Use in vacuum (NO)**

- 3 = Pressure
- 2 = Outlet
- 1 = Exhaust

**Use in vacuum (NC)**

- 3 = Vacuum pump
- 2 = Outlet
- 1 = Atmosphere

**Specifications**

- Pressure
- Outlet
- Exhaust
- Vacuum pump
- Atmosphere

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Solenoid valves (3/2)

**MICRO SOLENOID VALVES - SERIES 188**

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

<table>
<thead>
<tr>
<th>number of valves</th>
<th>subbase catalogue number*</th>
<th>weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>35300101</td>
<td>0.015</td>
</tr>
</tbody>
</table>

**Solenoid valve mounted on single subbase**

**Solenoid valve mounted on multiple subbase**

<table>
<thead>
<tr>
<th>number of valves</th>
<th>subbase catalogue number*</th>
<th>length L1</th>
<th>length L2</th>
<th>weight</th>
</tr>
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<tbody>
<tr>
<td>2</td>
<td>35300102</td>
<td>33,5</td>
<td>27,5</td>
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<td>3</td>
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<td>44</td>
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<td>5</td>
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<td>65</td>
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<td>0.104</td>
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<td>6</td>
<td>35300106</td>
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<td>7</td>
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<td>35300108</td>
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<td>101</td>
<td>0.175</td>
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<td>35300110</td>
<td>117,5</td>
<td>111,5</td>
<td>0.193</td>
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</tbody>
</table>

A : Blanking plate, cat. no. 88135305

* The connectors must be ordered separately, please indicate the quantity and one of the following codes:
  - Connector, 2 wires
    - Distance between contacts 5.08 mm - catalogue number: 88118801
    - length 0.5 m - catalogue number: 88118802
    - length 1.5 m - catalogue number: 88118803
    - length 3 m - catalogue number: 88118804
  - Distance between contacts 2.54 mm - catalogue number: 88118805
    - length 0.5 m - catalogue number: 88118806
    - length 1.5 m - catalogue number: 88118807
    - length 3 m - catalogue number: 88118808