## FEATURES
- Miniature solenoid valves for medical and gas analysers and biotechnology equipment
- Designed to control acids, bases and analytical reagents
- Hermetic separation of control mechanism and fluid:
  - Prevents particulate contamination caused by friction of moving parts, assuring maximum purity of fluid
  - Ensures reliable operation in applications with highly aggressive fluids
- Reduced heat transfer between control mechanism and fluid
- Good self-draining capability and easy-to-flush internal cavity
- Low dead volume
- Power savings and reduced heat exchange due to special integrated electronics
- Easy installation
- High-quality materials and thorough testing offer high reliability and an unprecedented service life

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

- **Body**: PEEK
- **Diaphragm**: FFPM
- **Seals**: FFPM
- **Long flange**: PEEK

## OTHER MATERIALS
- **Internal parts**: Stainless steel

## ELECTRICAL CHARACTERISTICS
- **Coil insulation class**: F
- **Connector**: 2 contacts (5.08 mm pin spacing) for plug-type connector with 2 lead wires (0.5 mm²) (EN 60335) or with cable ends, length 0.5 m
- **Electrical safety**: IEC 335
- **Electrical enclosure protection**: IP40 (EN 60529) with built-in LED and electrical protection
- **Standard voltages**: DC (=): 12V - 24V

### Electrical option table

<table>
<thead>
<tr>
<th>Prefix option</th>
<th>Power ratings</th>
<th>Operator ambient temperature range (°C)</th>
<th>Replacement coil</th>
<th>Type</th>
</tr>
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<tr>
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<td>inrush (VA)</td>
<td>holding (VA)</td>
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<tr>
<td></td>
<td>holding (W)</td>
<td>max (W)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>L</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>03</td>
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### Notes:
1. Refer to the dimensional drawings on the page.
2. Plug-type connectors with 0.5m, 1.5 m or 5 m lead wires to be ordered separately, see page 2.
3. Seals and diaphragm: FPM, +10°C to +40°C / EPDM, +5°C to +40°C.
4. With integrated electronic card with power-save function, 1 W after 15 ms of operation.

## GENERAL
- **Differential pressure**: -0.9 to +3 bar (usable in 0.1 bar abs. vacuum) [1 bar =100 kPa]
- **Maximum viscosity**: 20 cSt (mm²/s)
- **Response time**: < 10 ms
- **Dead volume**: < 13 μl (connections not included)

## MATERIALS IN CONTACT WITH FLUID
(+) liquids or gases
- (filtered 50 μm) +10°C to + 40°C
- FFPM (perfluoroelastomer)

## MICRO SOLENOID VALVES
- **Rocker mechanism, fluid isolation**
- **Pad mounting body**
- **Size**: 10 mm

## Version designed for 2-wire plug-type connector with 5.08 mm pin spacing

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**MICRO SOLENOID VALVES**

rockersmechanism, fluid isolation

pad mounting body

size 10 mm
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>pipe size</th>
<th>orifice size</th>
<th>flow coefficient Kv</th>
<th>operating pressure differential (bar)</th>
<th>power coil (W)</th>
<th>catalogue number</th>
<th>options</th>
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<tbody>
<tr>
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<td>(mm)</td>
<td>(m³/h)</td>
<td>(l/min)</td>
<td>max. (PS)</td>
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<td>vertical connection</td>
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<td>min.</td>
<td>gases</td>
<td>liquids (+)</td>
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<td>0.006</td>
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<td>2/2 NO - Normally open</td>
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**SUBBASES**

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<th>pipe size</th>
<th>mounting type</th>
<th>description</th>
<th>composition</th>
<th>catalogue number</th>
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<td>individual</td>
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<tr>
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<td>bottom connection</td>
<td>3 push-in connections O.D. 2.1mm</td>
<td>36100042</td>
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</tbody>
</table>

**OPTIONS**

- Valves can also be supplied with FPM (fluoroelastomer) and EPDM (ethylene-propylene) seals and diaphragm. Use the appropriate optional suffix letter for identification
- Plug-type connector, 0.5 m lead wires (catalogue number 88118801) / 1.5 m lead wires (catalogue number 88118802) / 3 m lead wires (catalogue number 88118803)
- Impulse manual operator

**INSTALLATION**

- The solenoid valves can be mounted in any position without affecting operation
- Flange body provided with 2 mounting holes
- Pad-mounting solenoid valve supplied with seals for mounting on single subbase with threaded or push-in hose connections

**ORDERING EXAMPLES:**

```
prefix | pipe thread | basic number | voltage | suffix
SC     | S 067 A 021 | 12V / DC    |        |
SC     | S 067 A 022 V | 24V / DC |        |
SC     | S 067 A 061 | 12V / DC    |        |
L      | S 067 A 025 | 24V / DC    |        |
```

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DIMENSIONS (mm), WEIGHT (kg)

TYPE 01
Prefix "SC" Solenoid
IEC 335 / horizontal connection 5.08 mm
IP40
Weight: 0.18
Ø 0.6/0.8/1 mm: SCS067A021/026/031/061/066/071/101/106/111
Ø 1.35 mm: SCS067A036/076/116

TYPE 02
Prefix "SC" Solenoid
IEC 335 / vertical connection 5.08 mm
IP40
Weight: 0.18
Ø 0.6/0.8/1 mm: SCS067A022/027/032/062/067/072/105/107/112
Ø 1.35 mm: SCS067A037/077/117

TYPE 03
Prefix "L" solenoid
IEC 335 / cable ends, length 0.5 m
IP40
Weight 0.22
Ø 0.6/0.8/1 mm: LS067A025/030/035/065/070/075/105/110/115
Ø 1.35 mm: LS067A040/080/120

MOUNTING PAD

1. 2 wires, length 0.5 m
2. 2 mounting holes Ø M3, depth 5 mm

<table>
<thead>
<tr>
<th>type</th>
<th>prefix option</th>
<th>weight (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-02</td>
<td>SC</td>
<td>0.18</td>
</tr>
<tr>
<td>03</td>
<td>L</td>
<td>0.22</td>
</tr>
</tbody>
</table>

(1) Type 01-02: without plug-type connector
Type 03: with 0.5 m cable ends

All leaflets are available on: www.asconumatics.eu
DIMENSIONS (mm), WEIGHT

Single subbase with threaded connections
- Side connection
- 10-32 UNF thread
- PEEK

Single subbase with threaded connections
- Side connection
- 1/4-28 UNF thread
- PEEK

Single subbase with push-in hose connections
- Side connection
- Push-in connection O.D. 2,1mm
- PEEK

Single subbase with push-in hose connections
- Bottom connection
- Push-in connection O.D. 2,1mm
- PEEK

Push-in connection O.D. 2,1 mm for flexible tube

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