SOLENOID VALVES
for potentially explosive atmospheres
flameproof enclosure
II2G  Ex d IIB+H2 Gb T6..T4, II2D  Ex tb IIIc Db IP66/IP67
aluminium enclosure, ISO 15218 (CNOMO, size 30) interface

FEATURES
• Explosionproof operator for use in potentially explosive atmospheres according to ATEX-Directive 2014/34/EU
  EC type examination certificate no.: LCIE 10 ATEX 3043X
  IECEx Certificate of Conformity no.: IECEx LCI 10.0010X
• Compliance with the Essential Health and Safety Requirements has been assured by compliance with the International and European Standards IEC and EN: 60079-0, 60079-1 and 60079-31
• Easy electrical installation by means of a screw terminal coil
• Enclosure provided with a 1/2 NPT threaded entry hole for a broad range of cable entries
• A wide range of valves can be supplied with the CNOMO size 30 solenoid pilot interface

GENERAL
Differential pressure  See «SPECIFICATIONS» [1 bar = 100 kPa]
Flow  See «SPECIFICATIONS»
Pneumatic base  ISO 15218 (CNOMO E06.05.80, size 30)
Response time  70 - 140 ms

<table>
<thead>
<tr>
<th>fluids (+)</th>
<th>temperature range (TS)</th>
<th>seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>air or inert gas</td>
<td>-25°C to +60°C</td>
<td>NBR (nitrile) FPM (fluoroelastomer) VMQ (silicone)</td>
</tr>
</tbody>
</table>

SAFETY CODE
Gas  II2G  Ex d IIB+H2 Gb T6..T4
Dust  II2D  Ex tb IIIc Db T85°C..T135°C IP66/IP67

ELECTRICAL CHARACTERISTICS
Coil insulation class  F
Coil connection  Embedded screw terminals
Electrical enclosure protection  IP67 (EN 60529)
Standard voltages  DC (=): 24V - 48V
(Other voltages on request)  AC (-): 24V - 48V - 115V - 230V/50-60 Hz

TEMPERATURE CLASSIFICATION TABLES

<table>
<thead>
<tr>
<th>Un (V)</th>
<th>Pn (watt)</th>
<th>solenoid size</th>
<th>maximum ambient °C (1)(4)</th>
<th>surface temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>M6</td>
<td>T6 85°C</td>
<td>T5 100°C</td>
</tr>
<tr>
<td>24</td>
<td>5.4</td>
<td>●</td>
<td>-40 -</td>
<td>60</td>
</tr>
<tr>
<td>48</td>
<td>5.8</td>
<td>●</td>
<td>-40 -</td>
<td>60</td>
</tr>
<tr>
<td>115</td>
<td>7.1</td>
<td>●</td>
<td>-40 -</td>
<td>60</td>
</tr>
<tr>
<td>230</td>
<td>7.4</td>
<td>●</td>
<td>-40 -</td>
<td>60</td>
</tr>
</tbody>
</table>

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<td>M6</td>
<td>T6 85°C</td>
<td>T5 100°C</td>
</tr>
<tr>
<td>24</td>
<td>5.9</td>
<td>●</td>
<td>- 7,5</td>
<td>-</td>
</tr>
<tr>
<td>48</td>
<td>6.0</td>
<td>●</td>
<td>7,8</td>
<td>-</td>
</tr>
</tbody>
</table>

(1) The minimum allowable ambient temperature is -25°C for the operator. Actual temperature range can be limited depending on valve operation limits.
(2) Rectified coil construction.
(3) Maximum cold wattage.
(4) For the layout of the control circuit, see the installation and maintenance instructions at www.asco.com

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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Pipe size</th>
<th>Orifice size</th>
<th>Flow coefficient Kv</th>
<th>Operating pressure differential (bar)</th>
<th>15-DIGIT PRODUCT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>1.6</td>
<td>0.08</td>
<td>1.3</td>
<td>R314K311GN00</td>
</tr>
<tr>
<td>1/4</td>
<td>1.6</td>
<td>0.08</td>
<td>1.3</td>
<td>R314K311GN01</td>
</tr>
</tbody>
</table>

**WITHOUT MANUAL OPERATOR**

**NC - Normally closed, NBR seal and disc**

- 1/4
- 1.6
- 0.08
- 1.3
- 0.05
- 0.8
- 0
- 10
- 10 pad mount

**WITH MAINTAINED MANUAL OPERATOR**

**NC - Normally closed, NBR seal and disc**

- 1/4
- 1.6
- 0.08
- 1.3
- 0.05
- 0.8
- 0
- 10
- 10 pad mount

**15-DIGIT PRODUCT CODE**

- **Connection**: Pad mount
- **Product series**: 314
- **Revision letter**: K = Initial release
- **Valves version**: 311 = ISO 15218 (CNOMO E06.06.80, size 30)
- **1.6 mm orifice size / LPKF**

**INSTALLATION**

- The solenoid valves can be mounted in any position without affecting operation
- The solenoid valves are supplied with mounting screws
- Mounting on valve or single, non-joinable subbase with ISO 15218 (CNOMO, size 30) interface
- Installation/maintenance instructions are included with each valve

**OPERATOR CONNECTION**

- Any ATEX approved cable entry device can be fitted in the 1/2" NPT threaded entry hole (M20 x 1.5, in option); supplied without cable gland
- Internal and external earthing connection
- The operator can be rotated through 360° to select the most favourable position for cable entry

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

**TYPE 01**

- Electrical interface "GN"
- IEC, EN: 60079-1, 61241-1
- II2G Ex d IIB+H2 Gb T6,T4
- II2D Ex tb IIC Db IP66/IP67 T85°C..T135°C

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight</th>
<th>(kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>0.7</td>
<td></td>
</tr>
</tbody>
</table>

(2) Without cable gland.