### Product Index

#### Potentially explosive atmospheres, see page: II

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(1) Fluid entry above the disc.
(2) Fluid entry under the disc.
(3) See section: Solenoid Valves (2/2) [www.asco.com](http://www.asco.com)

*All leaflets are available on: [www.asco.com](http://www.asco.com)*

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What is combustible gas?
Combustible gases are gases or gaseous mixtures which burn in the presence of air or oxygen and are used mainly for heat generation. Combustible gases belong to families of gases whose combustion characteristics are in a large measure similar and which make them interchangeable.
- The first family of gases comprises town gas (made from coal) and coke-oven gas (gaseous fuel rich in carbon monoxide and hydrogen);
- the second family comprises natural gases, gases associated with petroleum and gases interchangeable with these;
- the third family of gases comprises liquefied petroleum gases.

Pressure operated valves/Solenoid valves to EN 161: What is this standard and what does it apply to?
This standard applies to electrically actuated shut-off valves with an operating pressure below or equal to 4 bar [for burners or appliances that can be fuelled with one or several types of 1st family gases (town gas etc.), 2nd family gases (natural gas etc.), or 3rd family gases (liquefied petroleum gases)].
It defines the safety, design and operating specifications for shut-off valve.
The purpose of these valves is to automatically shut off the source of gas on loss of power.
They must operate:
- within their full operating pressure range;
- within ambient temperature ranges: 0° to +60°C;
- within voltage ranges from: 85% to 100% (of their nominal voltage).
Pressure operated valves/Solenoid valves to EN 161 must likewise meet these requirements.
The valves can be mounted in any position without affecting operation.
Closing time: The closing time (the valve's response time) must not exceed 1 s.
Gas compatible elastomer materials must be homogeneous and free of pores, inclusions, grains, blisters and surface imperfections visible to the naked eye.
Valve marking: EU (in accordance with the Regulation (EU) 2016/426 on gas appliances).
In the context of the Regulation on gas appliances, these valves meet the specifications of the standard EN 161 for combustible gas applications and have achieved certification:

- **EU type examination certificate no.: CERTIGAZ 1312CN5765**
- **EU type examination certificate no.: CERTIGAZ 1312CP5992**
- **EU type examination certificate no.: CERTIGAZ 1312CQ6072**

I do not need products to EN 161 standard, so which ones apply to me?
You can use non-EN 161 products such as: (See sections)
- **Combustible Gas & Oil** ([040 Series](www.asco.com))
- **Solenoid Valves (2/2)** ([030 Series](www.asco.com) et [215 Series](www.asco.com))
- **Pressure Operated Valves (2/2)** ([290 Series](www.asco.com))

Before use, make sure that the compatibility of the fluids in contact with the materials is verified.
To check for compatibility, see the “Chemical Resistance Guide” in section:
« **General & Engineering Information** » ([www.asco.com](www.asco.com))
The information in the Guide is given for reference only. ASCO declines all responsibility for any use of its products with fluids not specified in the table. Please contact us for any specific uses.
SOLENOID VALVES

FEATURES
- Forged brass bodied lever actuated valves for fuel oil no. 2, 4 (10-64 cSt), heavy fuel oil no. 5 (75-160 cSt) and heated no. 6 (90-640 cSt)
- The valves have a 1/2" NPT (bypass) connection for preheating purpose of the medium, see construction 2
- Solenoid valves have a viton seal for absolute tight shut-off or a stainless steel seating for a long life and reliable control
- The solenoid valves satisfy all relevant EU directives

GENERAL
Differential pressure
- See «SPECIFICATIONS» [1 bar = 100 kPa]
Maximum viscosity
- 10 to 640 cSt (mm2/s)
Response time
- 20 - 40 ms

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

Body
- Construction 1: Brass, Construction 2: Brass
Core tube
- Stainless steel, Stainless steel
Core and plugnut
- Stainless steel, Stainless steel
Springs
- Stainless steel, Stainless steel
Seat
- FPM or metal-to-metal, FPM or metal-to-metal
Seals
- FPM, FPM
Disc
- Stainless steel, Stainless steel
Shading coil
- Copper, Copper

ELECTRICAL CHARACTERISTICS
- Coil insulation class: F
- Connector: Spade plug (cable Ø 6-10 mm)
- Connector specification: ISO 4400 / EN 175301-803, form A
- Electrical safety: IEC 335
- Electrical enclosure protection: Moulded IP65 (EN 60529)
  (Other voltages and 60 Hz on request)

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Notes:
- The diagrams are for guidance only.
- All leaflets are available on: www.asco.com
- Specifications are subject to change without notice. All rights reserved.
All leaflets are available on: www.asco.com

Solenoid valves series 266

Specifications

<table>
<thead>
<tr>
<th>pipe size</th>
<th>orifice size</th>
<th>flow coefficient Kv</th>
<th>operating pressure differential (bar) max. [PS]</th>
<th>power coil (W)</th>
<th>catalogue number FPM (suffix V)</th>
<th>metal-to-metal (suffix L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPT (mm)</td>
<td>(m³/h)</td>
<td>(l/min)</td>
<td>fuel oil grade 2 &amp; 4 (+)</td>
<td>fuel oil grade 5 or heated 6 (+)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3/8</td>
<td>0.3</td>
<td>1.5</td>
<td>0</td>
<td>29</td>
<td>28</td>
<td>15.4</td>
</tr>
<tr>
<td>4.8</td>
<td>6</td>
<td>10</td>
<td>0</td>
<td>11</td>
<td>10</td>
<td>15.4</td>
</tr>
<tr>
<td>6.4</td>
<td>1</td>
<td>16.6</td>
<td>0</td>
<td>6</td>
<td>5</td>
<td>15.4</td>
</tr>
<tr>
<td>4.8</td>
<td>0.6</td>
<td>10</td>
<td>0</td>
<td>11</td>
<td>10</td>
<td>15.4</td>
</tr>
<tr>
<td>5.2</td>
<td>0.7</td>
<td>11.6</td>
<td>0</td>
<td>9</td>
<td>9</td>
<td>15.4</td>
</tr>
<tr>
<td>6.4</td>
<td>1</td>
<td>16.6</td>
<td>0</td>
<td>6</td>
<td>5</td>
<td>15.4</td>
</tr>
</tbody>
</table>

Options

- Waterproof enclosure with embedded screw terminal coil according to protection class IP67, CEE-10
- Electrical enclosures according to “NEMA” standards are available
- Compliance with “UL”, “CSA” and other local approvals available on request
- Other insulation classes (H) are available
- Other pipe connections are available on request
- Connector with visual indication and peak voltage suppression or with cable length of 2 m (www.asco.com)

Installation

- The solenoid valves must be mounted with the solenoid vertical and upright
- Solenoid valves have 2 mounting holes in body
- Pipe connection identifier is B = NPT (ANSI 1.20.3)
- Installation/maintenance instructions are included with each valve

Spare Parts Kits

<table>
<thead>
<tr>
<th>catalogue number</th>
<th>spare parts kit no. FPM</th>
<th>metal-to-metal</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCB266D001/D047/C203</td>
<td>C304097V</td>
<td>C304097L</td>
</tr>
<tr>
<td>SCB266D007/D053/D011/D057</td>
<td>C304098V</td>
<td>C304098L</td>
</tr>
<tr>
<td>SCB266D023/C215</td>
<td>C304099V</td>
<td>C304099L</td>
</tr>
<tr>
<td>SCB266D061</td>
<td>C304100V</td>
<td>C304100L</td>
</tr>
<tr>
<td>SCB266D069/C239</td>
<td>C304099V</td>
<td>C304099L</td>
</tr>
<tr>
<td>SCB266D077/C219/C243</td>
<td>C304101V</td>
<td>C304101L</td>
</tr>
<tr>
<td>SCB266D085/C223/C247</td>
<td>C304102V</td>
<td>C304102L</td>
</tr>
<tr>
<td>SCB266D101</td>
<td>C304103V</td>
<td>C304103L</td>
</tr>
<tr>
<td>SCB266D107/D153</td>
<td>C304104V</td>
<td>C304104L</td>
</tr>
<tr>
<td>SCB266D123</td>
<td>C304123V</td>
<td>C304123L</td>
</tr>
<tr>
<td>SCB266D169V</td>
<td>C304106V</td>
<td>C304106L</td>
</tr>
</tbody>
</table>

Ordering Examples:

- SC B 266 D 001 V 230V / 50 Hz
- SC B 266 D 006 L 115V / 50 Hz
- SC B 266 C 203 V 24V / 50 Hz
- SC B 266 C 203 L 230V / 50 Hz

Ordering Examples Kits:

- C304097(1) V
- C304097 L

Dimensions (mm), Weight (kg)

- Type 01
- Prefix “SC” Solenoid
- Epoxy moulded
- IEC 335 / ISO 4400
- IP65

<table>
<thead>
<tr>
<th>type</th>
<th>prefix option</th>
<th>construction</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>X</th>
<th>weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>SC</td>
<td>1</td>
<td>86</td>
<td>56</td>
<td>33</td>
<td>33</td>
<td>119</td>
<td>50</td>
<td>90</td>
<td>110</td>
<td>111</td>
<td>53</td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>86</td>
<td>56</td>
<td>33</td>
<td>64</td>
<td>119</td>
<td>50</td>
<td>90</td>
<td>124</td>
<td>126</td>
<td>72</td>
<td>1.6</td>
</tr>
</tbody>
</table>

1. 2 mounting holes Ø 5.1 mm, pitch 38 mm.
2. 1/2 NPT bypass connection for preheating service.

(1) Standard prefixes/suffixes are also applicable to kits.

2 - Combustible Gas & Oil

Availability, design and specifications are subject to change without notice. All rights reserved.
ASCO™ Solenoid Valves
For Low Pressure Gas, EN 161
Direct Operated, 1/8” or 1/4” tapped

- For gas pilot and gas burner control on industrial atmospheric and forced draught burners, also used in kilns and furnaces in process industries
- All valves have been type tested to EN 161 and satisfy the Regulation (EU) 2016/426 on gas appliances
  Certificate of conformity BSI: No. CE 688365
- All valves are for class A group 2 service and cover gas family 1, 2 and 3
- All valves are suitable to withstand 150 mbar back pressure
- Direct lift valves with resilient soft seating for tight shut-off

**General**

<table>
<thead>
<tr>
<th>Differential pressure</th>
<th>Response time</th>
</tr>
</thead>
<tbody>
<tr>
<td>fluids (†)</td>
<td>temperature range (TS)</td>
</tr>
<tr>
<td>combusitble gas</td>
<td>0°C to +60°C</td>
</tr>
</tbody>
</table>

**Materials in contact with fluid**

(†) Ensure that the compatibility of the fluids in contact with the materials is verified

**Body**
- Shading coil: Brass
- Core tube: Stainless steel, AISI 305
- Core and plugnut: Stainless steel, AISI 430F
- Springs: Stainless steel, AISI 302
- Seal: NBR
- Disc: NBR

**Electrical characteristics**

<table>
<thead>
<tr>
<th>Connector</th>
<th>ISO 4400 / EN 175301-803, form A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector specification</td>
<td>ISO 4400 / EN 175301-803, form A</td>
</tr>
<tr>
<td>Electrical safety</td>
<td>IEC 335</td>
</tr>
<tr>
<td>Electrical enclosure protection</td>
<td>Moulded IP65 (EN 60529)</td>
</tr>
</tbody>
</table>

**Standard voltages**

(Other voltages and 60 Hz on request)

<table>
<thead>
<tr>
<th>Standard voltages</th>
<th>AC (~) : 24V - 48V - 115V - 230V/50 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power ratings</td>
<td>(°C) (VA) (VA) (W) - 230 V/50 Hz</td>
</tr>
<tr>
<td>Operator ambient temperature (TS)</td>
<td>0 to +60</td>
</tr>
<tr>
<td>Replacement coil</td>
<td>515488-059</td>
</tr>
</tbody>
</table>

**Options**

- Connector with visual indication and peak voltage suppression or with cable length of 2 m
## Specifications

<table>
<thead>
<tr>
<th>pipe size</th>
<th>orifice size</th>
<th>flow</th>
<th>operating pressure differential (bar)</th>
<th>power coil (W)</th>
<th>thread type (dimensions / type)</th>
<th>brass</th>
<th>voltage code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(mm)</td>
<td>(m³/h)</td>
<td>(l/min)</td>
<td>max. (PS)</td>
<td>min. gas (+)</td>
<td></td>
<td>24 V/50 Hz</td>
</tr>
<tr>
<td>1/8</td>
<td>3.2</td>
<td>0.3</td>
<td>5</td>
<td>2.76</td>
<td>8.1 G</td>
<td>01 G262K002S1NG0</td>
<td>FL</td>
</tr>
<tr>
<td>1/4</td>
<td>7.1</td>
<td>0.76</td>
<td>12.7</td>
<td>2.1</td>
<td>8.1 G*</td>
<td>01 E262K090S1NG0</td>
<td>FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>230 V/50 Hz</td>
</tr>
</tbody>
</table>

(For dimensions, see drawing(s) for each construction type on the following page(s).)

(+) Ensure that the compatibility of the fluids in contact with the materials is verified.

### Without manual operator

#### Thread connection

- **G** = ISO 228/1 (1/8)
- **E** = ISO 228/1 & ISO 7/1 (combination thread, G*)

#### Product series

262

#### Revision letter

- **K** = Initial release

#### Valves version

- **E**
- **262**
- **K**
- **090**
- **S1**
- **NG0**

---

## Configurator - CAD Files

- **Voltage - class**
  - FL = 24 V / 50 Hz - class F
  - FR = 48 V / 50 Hz - class F
  - FT = 115 V / 50 Hz - class F
  - F8 = 230 V / 50 Hz - class F

- **Options**
  - Without manual operator
  - Gas
  - NG0 = NBR disc and seals

- **Electrical interface**
  - S1 = With spade plug connector

## Spare parts kits no. (+)

<table>
<thead>
<tr>
<th>Spare parts kits no. (+)</th>
<th>AC (-)</th>
<th>NBR</th>
<th>NG0</th>
</tr>
</thead>
<tbody>
<tr>
<td>G262K002S1NG0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M2000001</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E262K090S1NG0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Accessories code

- **Mounting bracket**
  - Steel version (AISI 1010 / 1.1121)
  - M200094A00

- **Mounting bracket**
  - Stainless steel version (AISI 304 / 1.4301)
  - M200095A00

---

Visit our website at www.emerson.com/asco
ASCO™ Solenoid Valves

Installation

- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valves have 2 mounting holes in body
- Thread connection “E” applicable for 1/4 have standard thread according to ISO 228/1 and ISO 7/1. Thread connection “G” applicable for 1/8, have standard thread according to ISO 228/1
- Installation/maintenance instructions are included with each valve

Dimensions (mm), Weight (kg)

<table>
<thead>
<tr>
<th>Type</th>
<th>Pipe size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>X</th>
<th>Weight (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>1/8</td>
<td>88</td>
<td>51</td>
<td>30</td>
<td>30</td>
<td>43</td>
<td>62</td>
<td>71</td>
<td>88</td>
<td>26</td>
<td>0.30</td>
</tr>
<tr>
<td>01</td>
<td>1/4</td>
<td>88</td>
<td>51</td>
<td>30</td>
<td>40</td>
<td>43</td>
<td>65</td>
<td>75</td>
<td>92</td>
<td>30</td>
<td>0.42</td>
</tr>
</tbody>
</table>

(1) Incl. coil(s) and connector(s).

Visit our website at www.emerson.com/asco
Mounting bracket
Steel or stainless steel

M200094A00 / M200095A00

ASCO™ Solenoid Valves

Series
262

Visit our website at www.emerson.com/asco
FEATURES

- Aluminium bodied low pressure valves designed to provide maximum flow
- Solenoid valves for gas pilot control on industrial power boilers and low pressure air and gas control on gas-fired ovens and furnaces
- Direct lift solenoid valves have a resilient soft seating for absolute tight shut-off on low pressures
- The solenoid valves do not require a minimum operating pressure
- Downstream tap for leak check purpose
- The solenoid valves satisfy all relevant EU Directives

GENERAL

Differential pressure  
Response time 5 - 40 ms

<table>
<thead>
<tr>
<th>fluids (+)</th>
<th>temperature range (TS)</th>
<th>seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>air, gas</td>
<td>-40°C to +90°C</td>
<td>NBR (nitrile)</td>
</tr>
</tbody>
</table>

MATERIALS IN CONTACT WITH FLUID

(+): Ensure that the compatibility of the fluids in contact with the materials is verified

Body  
Core tube  
Core and plugnut  
Springs  
Seat  
Seal  
Disc  
Riderring  
Core guide  
Shading coil

Aluminium  
Stainless steel  
Stainless steel  
Stainless steel  
Aluminium  
NBR  
NBR (low temperature)  
PTFE  
POM  
Copper

ELECTRICAL CHARACTERISTICS

Coil insulation class  
Connector  
Connector specification  
Electrical safety  
Electrical enclosure protection  
Standard voltages

F  
Spade plug (cable Ø 6-10 mm)  
ISO 4400 / EN 175301-803, form A  
IEC 335  
Moulded IP65 (EN 50740)  
AC (-) : 24V - 48V - 115V - 230V / 50 Hz

<table>
<thead>
<tr>
<th>prefix option</th>
<th>power ratings</th>
<th>operator ambient temperature range (TS)</th>
<th>replacement coil</th>
<th>type (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inrush (VA)</td>
<td>holding (W)</td>
<td>hot/cold (°C)</td>
<td>~</td>
</tr>
<tr>
<td>SC</td>
<td>34</td>
<td>15,6</td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>55</td>
<td>23</td>
<td>10,5</td>
<td>-</td>
</tr>
</tbody>
</table>

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

SPECIFICATIONS

<table>
<thead>
<tr>
<th>pipe size</th>
<th>orifice size</th>
<th>flow coefficient Kv</th>
<th>operating pressure</th>
<th>power coil (W)</th>
<th>catalogue number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NPT (mm)</td>
<td>(m³/h)</td>
<td>(l/min)</td>
<td>(bar)</td>
<td>min.</td>
</tr>
<tr>
<td>1/8</td>
<td>9</td>
<td>0,9</td>
<td>15</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1/4</td>
<td>9</td>
<td>0,9</td>
<td>15</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>3/8</td>
<td>3/4</td>
<td>1,6</td>
<td>75</td>
<td>0</td>
<td>0,15</td>
</tr>
<tr>
<td>3/8</td>
<td>19</td>
<td>3,3</td>
<td>55</td>
<td>0</td>
<td>0,15</td>
</tr>
<tr>
<td>1/2</td>
<td>19</td>
<td>4,6</td>
<td>76,7</td>
<td>0</td>
<td>0,15</td>
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<td>3/4</td>
<td>19</td>
<td>8,1</td>
<td>135</td>
<td>0</td>
<td>0,15</td>
</tr>
<tr>
<td>3/4</td>
<td>19</td>
<td>8,1</td>
<td>135</td>
<td>0</td>
<td>0,15</td>
</tr>
</tbody>
</table>

NC - Normally closed

All leaflets are available on: www.asco.com
OPTIONS

- Waterproof enclosure with embedded screw terminal coil according to protection class IP67, CEE-10
- Electrical enclosures according to “NEMA” standards are available
- Mounting brackets, suffix MB
- Other pipe connections are available on request
- Connector with visual indication and peak voltage suppression or with cable length of 2 m (www.asco.com)

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valves have 2 mounting holes in body
- Pipe connection identifier is B = NPT (ANSI 1.20.3)
- Installation/maintenance instructions are included with each valve

SPARE PARTS KIT

<table>
<thead>
<tr>
<th>catalogue number</th>
<th>spare parts kit no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCB040H006/H007/H008</td>
<td>C314692</td>
</tr>
<tr>
<td>SCB040A021/A022/A023</td>
<td>C306633</td>
</tr>
</tbody>
</table>
- Not available.

ORDERING EXAMPLES:

<table>
<thead>
<tr>
<th>prefix</th>
<th>pipe thread</th>
<th>voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC</td>
<td>B</td>
<td>040</td>
</tr>
<tr>
<td>SCB040H006/H007/H008</td>
<td>H006</td>
<td>230V / 50 Hz</td>
</tr>
<tr>
<td>SCB040A021/A022</td>
<td>A021</td>
<td>115V / 50 Hz</td>
</tr>
</tbody>
</table>

ORDERING EXAMPLES KITS:

<table>
<thead>
<tr>
<th>basic number</th>
</tr>
</thead>
<tbody>
<tr>
<td>C306633</td>
</tr>
</tbody>
</table>

DIMENSIONS (mm), WEIGHT (kg)

<table>
<thead>
<tr>
<th>type</th>
<th>prefix</th>
<th>option</th>
<th>catalogue number</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
<th>F (mm)</th>
<th>G (mm)</th>
<th>H (mm)</th>
<th>J (mm)</th>
<th>X (mm)</th>
<th>weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>SC</td>
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<td>SCB040H006/H007/H008</td>
<td>75</td>
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<td>48</td>
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<td>68</td>
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<td>23</td>
<td>23</td>
</tr>
<tr>
<td>02</td>
<td>SC</td>
<td></td>
<td>SCB040A021/A022</td>
<td>80</td>
<td>50</td>
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<td>SCB040A023</td>
<td>90</td>
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<td>84</td>
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<td>0.4</td>
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<td></td>
<td></td>
<td>0.7</td>
</tr>
</tbody>
</table>

(1) including coil and connector.

All leaflets are available on: www.asco.com
FEATURES
- For gas pilot and gas burner control on industrial atmospheric and forced draught burners, also used in kilns and furnaces in process industries
- All valves have been type tested to EN 161 and satisfy the Regulation (EU) 2016/426 on gas appliances
- Certificate of conformity BSI: No. CE 688365
- All valves are for class A group 2 service and cover gas family 1, 2 and 3
- All valves are suitable to withstand 150 mbar back pressure
- Aluminium bodied, low pressure valves designed to provide maximum flow
- Direct lift valves with resilient soft seating for tight shut-off

MATERIALS IN CONTACT WITH FLUID
(+) Ensure that the compatibility of the fluids in contact with the materials is verified
- Body: Aluminium
- Core tube: Stainless steel
- Core and plugnut: Stainless steel
- Springs: Stainless steel
- Seat: Aluminium
- Seal: NBR
- Disc: NBR
- Riderring: PTFE
- Core guide: POM
- Shading coil: Copper

ELECTRICAL CHARACTERISTICS
- Coax insulation class: F
- Connector: Spade plug (cable Ø 6-10 mm)
- Connector specification: ISO 4400 / EN 175301-803, form A
- Electrical safety: IEC 335
- Electrical enclosure protection: Moulded IP65 (EN 60529)
- Standard voltages: AC (~) : 24V - 48V - 115V - 230V / 50 Hz

SPECIFICATIONS
- For 2,5 mbar pressure drop air 1,0 s.g. at 1,013 mbar and 15°C.
- Valves to be mounted vertical and upright.
OPTIONS

• Mounting brackets, suffix MB (EGSCE040B001/B002/B003 only)
• Optional features to EGSCE040B001/002/B003:
  - Strainer, used suffix D01
  - 1/8” plugged pressure tappings in the inlet and outlet ports, use suffix D02
  - Strainer and 1/8 plugged pressure tappings in the inlet and outlet ports, used suffix D03
  - Pressure test nipples for hose connection in the inlet and outlet ports Ø 8 mm, use suffix D04
  - Strainer and Pressure test nipples for hose connection in the inlet and outlet ports Ø 8 mm, use suffix D05
• Connector with visual indication and peak voltage suppression or with cable length of 2 m (www.asco.com)

INSTALLATION

• The B001/B002/B003 solenoid valves can be mounted in any position without affecting operation. The A024 solenoid valves must be mounted vertical and upright
• Standard integrated strainers at the inlet port for valve type A024. Strainers are optional for types B001, B002 and B003
• Pipe connection identifier is E = Rp (ISO 7/1)
• Installation/maintenance instructions are included with each valve

SPARE PARTS KIT

<table>
<thead>
<tr>
<th>catalogue number</th>
<th>spare parts kit no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGSCE040B001/B002/B003</td>
<td>K312984</td>
</tr>
<tr>
<td>EGSCE040A024</td>
<td>K320011</td>
</tr>
</tbody>
</table>

* Not available.

ORDERING EXAMPLES:

<table>
<thead>
<tr>
<th>prefix</th>
<th>pipe thread</th>
<th>basic number</th>
<th>voltage</th>
<th>suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGSC</td>
<td>E</td>
<td>040 B 001</td>
<td>230V / 50 Hz</td>
<td>-</td>
</tr>
<tr>
<td>EGSC</td>
<td>E</td>
<td>040 A 024</td>
<td>115V / 50 Hz</td>
<td>-</td>
</tr>
</tbody>
</table>

ORDERING EXAMPLES KITS:

| basic number | K312984 |

DIMENSIONS (mm), WEIGHT (kg)

EGSCE040B001/B002/B003

<table>
<thead>
<tr>
<th>type</th>
<th>prefix option</th>
<th>catalogue number</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>X</th>
<th>weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 EGSC</td>
<td>EGSCE040B001/B002</td>
<td>77</td>
<td>50</td>
<td>30</td>
<td>70</td>
<td>45</td>
<td>59</td>
<td>83</td>
<td>88</td>
<td>114</td>
<td>47</td>
<td>0.9</td>
<td></td>
</tr>
<tr>
<td>02 EGSC</td>
<td>EGSCE040B003</td>
<td>77</td>
<td>50</td>
<td>30</td>
<td>83</td>
<td>45</td>
<td>59</td>
<td>88</td>
<td>109</td>
<td>125</td>
<td>58</td>
<td>0.7</td>
<td></td>
</tr>
<tr>
<td>02 EGSC</td>
<td>EGSCE040A024</td>
<td>86</td>
<td>56</td>
<td>33</td>
<td>108</td>
<td>50</td>
<td>89</td>
<td>112</td>
<td>130</td>
<td>135</td>
<td>55</td>
<td>1.4</td>
<td></td>
</tr>
</tbody>
</table>

(1) Inlet and outlet ports pressure tapping Rp 1/8 (standard for type A024 and optional for types B001, B002 and B003)

(2) include coil and connector or metal housing.
FEATURES
• For gas pilot and gas burner control on industrial atmospheric and forced draught burners, also used in kilns and furnaces in process industries
• All valves have been type tested to EN 161 and satisfy the Regulation (EU) 2016/426 on gas appliances
• Certificate of conformity BSI: No. CE 688365
• All valves are for class A group 2 service and cover gas family 1, 2 and 3
• All valves are suitable to withstand 150 mbar back pressure
• Brass bodied, low pressure valves designed to provide maximum flow
• Direct lift valves with resilient soft seating for tight shut-off
• The solenoid valves do not require a minimum operating pressure

GENERAL
Differential pressure See «SPECIFICATIONS» [1 bar = 100 kPa]
Response time 1 s max.

<table>
<thead>
<tr>
<th>fluids (+)</th>
<th>temperature range (TS)</th>
<th>seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>combustible gas</td>
<td>0°C to +60°C</td>
<td>NBR (nitrile)</td>
</tr>
</tbody>
</table>

MATERIALS IN CONTACT WITH FLUID
(+): Ensure that the compatibility of the fluids in contact with the materials is verified
Body Brass
Core tube Stainless steel
Core and plugnut Stainless steel
Spring Stainless steel
Seat Brass
Seals NBR
Disc NBR
Shading coil Copper

ELECTRICAL CHARACTERISTICS
Coil insulation class F
Connector Spade plug (cable Ø 6-10 mm)
Connector specification ISO 4400 / EN 175301-803, form A
Electrical safety IEC 335
Electrical enclosure protection Moulded IP65 (EN 60529)
(Other voltages and 60 Hz on request)

<table>
<thead>
<tr>
<th>power ratings</th>
<th>operating pressure ambient temperature range (TS)</th>
<th>replacement coil</th>
</tr>
</thead>
<tbody>
<tr>
<td>prefix option</td>
<td>innush – holding – hot/cold</td>
<td>operator</td>
</tr>
<tr>
<td></td>
<td>(VA) (VA) (W) (W)</td>
<td>(°C)</td>
</tr>
<tr>
<td>EGSC</td>
<td>40 17 6 – 0 to +60</td>
<td>400919-117 - 01</td>
</tr>
</tbody>
</table>

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

SPECIFICATIONS
<table>
<thead>
<tr>
<th>pipe size</th>
<th>orifice size</th>
<th>flow (+)</th>
<th>operating pressure differential (bar)</th>
<th>power coil (W)</th>
<th>catalogue number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rp (mm)</td>
<td>(m³/h)</td>
<td>(l/min)</td>
<td>min. max. (PS)</td>
<td>gas (+)</td>
<td></td>
</tr>
<tr>
<td>3/8</td>
<td>9.5</td>
<td>2.19</td>
<td>36.5 0 0.48</td>
<td>-</td>
<td>6 -</td>
</tr>
<tr>
<td>1/2</td>
<td>11</td>
<td>3.41</td>
<td>56.8 0 0.14</td>
<td>-</td>
<td>6 -</td>
</tr>
<tr>
<td>NC - Normally closed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For 2.5 mbar pressure drop air 1.0 s.g. at 1.013 mbar and 15°C.
OPTIONS

• Mounting brackets, suffix MB
• Integrated strainer at the inlet port, used suffix D30
• Connector with visual indication and peak voltage suppression or with cable length of 2 m (www.asco.com)

INSTALLATION

• The solenoid valves can be mounted in any position without affecting operation
• Pipe connection identifier is E = Rp (ISO 7/1)
• Installation/maintenance instructions are included with each valve

SPARE PARTS KIT

<table>
<thead>
<tr>
<th>catalogue number</th>
<th>spare parts kit no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGSC030B010</td>
<td>K312981</td>
</tr>
<tr>
<td>EGSC030A016</td>
<td>K312980</td>
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</tbody>
</table>

- Not available.

ORDERING EXAMPLES:

<table>
<thead>
<tr>
<th>prefix</th>
<th>pipe thread</th>
<th>voltage</th>
<th>basic number</th>
<th>suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGSC</td>
<td>E</td>
<td>030</td>
<td>B</td>
<td>010</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>230V / 50 Hz</td>
</tr>
<tr>
<td>EG</td>
<td>E</td>
<td>030</td>
<td>A</td>
<td>016</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>115V / 50 Hz</td>
</tr>
</tbody>
</table>

ORDERING EXAMPLES KITS:

<table>
<thead>
<tr>
<th>basic number</th>
</tr>
</thead>
<tbody>
<tr>
<td>K312981</td>
</tr>
</tbody>
</table>

DIMENSIONS (mm), WEIGHT (kg)

TYPE 01
Prefix “EGSC” Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

<table>
<thead>
<tr>
<th>type</th>
<th>prefix</th>
<th>catalogue number</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>weight (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>EGSC</td>
<td>EGSC030B010</td>
<td>75</td>
<td>48</td>
<td>39</td>
<td>22</td>
<td>77</td>
<td>88</td>
<td>122</td>
<td>20</td>
<td>0,5</td>
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<tr>
<td></td>
<td></td>
<td>EGSC030A016</td>
<td>87</td>
<td>58</td>
<td>39</td>
<td>28</td>
<td>82</td>
<td>96</td>
<td>130</td>
<td>22</td>
<td>0,5</td>
</tr>
</tbody>
</table>

(1) including coil and connector.

All leaflets are available on: www.asco.com
FEATURES
- Valves for the control of gases on industrial atmospheric and forced draught burners
- All valves have been type tested to EN 161 and satisfy the Regulation (EU) 2016/426 on gas appliances
- Certificate of conformity Kiwa Nederland B.V.: No. 0063AR1726
- All valves are for class A group 2 service and cover gas family 1 and 2
- Aluminium bodied valves designed to provide maximum flow
- The valves are for the control of low pressure gases compatible with the materials used
- The solenoid valves have a resilient soft seating for tight shut-off

GENERAL
Differential pressure 0 - 2 bar [1 bar = 100 kPa]
Response time 25 - 120 ms

<table>
<thead>
<tr>
<th>fluids (+)</th>
<th>temperature range (TS)</th>
<th>seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>combustible gas</td>
<td>-15°C to +60°C</td>
<td>NBR (nitrile)</td>
</tr>
</tbody>
</table>

MATERIALS IN CONTACT WITH FLUID
(+): Ensure that the compatibility of the fluids in contact with the materials is verified
Body: Aluminium
Core tube: Stainless steel
Core and plugnut: Stainless steel
Springs: Stainless steel
Seat: Aluminium or stainless steel
Seal, diaphragm and discs: NBR
Core guide: POM
Rider rings: PTFE
Shading coil: Copper

ELECTRICAL CHARACTERISTICS
Coil insulation class F
Connector: Spade plug (cable Ø 6-10 mm)
Connector specification: ISO 4400 / EN 175301-803, form A
Electrical safety: IEC 335
Electrical enclosure protection: Moulded IP65 (EN 60529)

<table>
<thead>
<tr>
<th>prefix option</th>
<th>power ratings</th>
<th>operator ambient temperature range (TS)</th>
<th>replacement coil</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inrush ~ holding ~</td>
<td>hot/cold ~ =</td>
<td>=</td>
</tr>
<tr>
<td>(VA) (VA) (W) (W) (°C)</td>
<td>230 V/50 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EGSC 55 23 10,5</td>
<td>-15 to +60</td>
<td>406425-117-01</td>
<td></td>
</tr>
</tbody>
</table>

(1): Refer to the dimensional drawings on the following page.

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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>min. max. (PS) gas (+)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rp (mm)</td>
<td>(m³/h)</td>
<td>(l/min)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NC - Normally closed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8</td>
<td>19</td>
<td>2.9</td>
<td>48.3</td>
<td>2</td>
<td>10.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EGSC215B010</td>
</tr>
<tr>
<td>1/2</td>
<td>19</td>
<td>3.8</td>
<td>63.3</td>
<td>2</td>
<td>10.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EGSC215B020</td>
</tr>
</tbody>
</table>
OPTIONS

- Mounting brackets, suffix MB
- Connector with visual indication and peak voltage suppression or with cable length of 2 m (www.asco.com)

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Pipe connection identifier is E = Rp (ISO 7/1)
- Installation/maintenance instructions are included with each valve

SPARE PARTS KIT

<table>
<thead>
<tr>
<th>catalogue number</th>
<th>spare parts kit no.</th>
<th>mounting bracket no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGSC215B010</td>
<td>C131447</td>
<td>- 038713-000</td>
</tr>
<tr>
<td>EGSC215B020</td>
<td>C131447</td>
<td>- 038713-000</td>
</tr>
</tbody>
</table>

Not available.

ORDERING EXAMPLES:

- EGSC E 215 B 010 230V / 50 Hz
- EGSC E 215 B 020 115V / 50 Hz

ORDERING EXAMPLES KITS:

- C131447

DIMENSIONS (mm), WEIGHT (kg)

<table>
<thead>
<tr>
<th>TYPE 01</th>
<th>Prefix “EGSC” Solenoid</th>
<th>Epoxy moulded</th>
<th>IEC 335 / ISO 4400</th>
<th>IP65</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>type</th>
<th>prefix</th>
<th>option</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>X</th>
<th>weight (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>EGSC</td>
<td>85</td>
<td>50</td>
<td>70</td>
<td>70</td>
<td>45</td>
<td>60</td>
<td>85</td>
<td>100</td>
<td>117</td>
<td>41</td>
<td>50</td>
<td>0.6</td>
<td></td>
</tr>
</tbody>
</table>

(1) including coil and connector.
FEATURES
- Valves for combustible gas, bronze or stainless steel body
- Valves satisfy the Pressure Equipment Directive 2014/68/EU, EN 161 and satisfy the Regulation (EU) 2016/426 on gas appliances
- EU type examination certificate no.: CERTIGAZ 1312CN5765
  These valves are certified for operation up to 10 bar, instead of 4 bar as required under Standard EN 161
- All valves are for class A - Groupe 2 service and cover gas family 1 - 2 and 3
- All valves are suitable to withstand 150 mbar back pressure
- High flow due to angled seat design - fluid entry above the disc
- High performance maintenance-free stuffing box

GENERAL

<table>
<thead>
<tr>
<th>fluids</th>
<th>temperature range (TS)</th>
<th>disc seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>gas family 1 - 2 - 3</td>
<td>-10°C to +60°C</td>
<td>PTFE</td>
</tr>
</tbody>
</table>

Differential pressure 0 to 10 bar [1 bar = 100 kPa]
Time for closing / for opening 1 s max. with pilot solenoid valve directly connected to valve operator

Note: Opening and closing times depend on using pilot valves meeting the requirements in the table below

Pilot fluid Air
Max. pilot pressure 9 bar
Min. pilot pressure 5 bar - see graph following page
Pilot fluid temperature -10°C to +60°C

CONSTRUCTION
Valve body Bronze or stainless steel
Stuffing box packing PTFE chevrons
Disc seal PTFE
Operator Glass fibre filled PA
Pilot port insert Brass

PILOT SOLENOID VALVES SELECTION
- Must meet European low voltage directive and electromagnetic compatibility requirements
- Non-locking NC 3/2 versions
- Must allow the main valve to close automatically as per standard EN 161

<table>
<thead>
<tr>
<th>operator diameter (mm)</th>
<th>Kv (m³/h) min.</th>
<th>response time (ms)</th>
<th>pilot valve recommended (without manual operator)</th>
<th>catalogue number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>through pilot valve</td>
<td>close the valve</td>
<td>open the valve</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63</td>
<td>0.04</td>
<td>10</td>
<td>7</td>
<td>SCG356B061V</td>
</tr>
</tbody>
</table>

(1) Including pipe up to main valve.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>pipe size</th>
<th>flow (m³/h)</th>
<th>pilot pressure (bar)</th>
<th>operating pressure differential (bar)</th>
<th>operator diameter (mm)</th>
<th>catalogue number</th>
</tr>
</thead>
<tbody>
<tr>
<td>G*</td>
<td>NPT</td>
<td>G*</td>
<td>G*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2</td>
<td>1/2</td>
<td>15   19</td>
<td>320 5 9 0 10 63</td>
<td>EGE290B036</td>
<td></td>
</tr>
<tr>
<td>3/4</td>
<td>3/4</td>
<td>39   39</td>
<td>650 5 9 0 10 63</td>
<td>EGE290B037</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>54   54</td>
<td>900 5 9 0 10 63</td>
<td>EGE290B038</td>
<td></td>
</tr>
<tr>
<td>1 1/4</td>
<td>1 1/4</td>
<td>82   82</td>
<td>1700 5 9 0 10 63</td>
<td>EGE290A039</td>
<td></td>
</tr>
<tr>
<td>1 1/2</td>
<td>1 1/2</td>
<td>102  102</td>
<td>2400 5 9 0 10 63</td>
<td>EGE290A040</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>180  180</td>
<td>3000 5 9 0 9 63</td>
<td>EGE290A042</td>
<td></td>
</tr>
</tbody>
</table>

(4) For 2,5 mbar pressure drop air 1,0 s.g. at 1,013 mbar and 15°C.
(5) Pilot pressure varies with differential pressure. See graph following page.
INSTALLATION

- Install strainer upstream of valve with a mesh size below 1.5 mm through which a 1 mm dia. rod cannot pass
- The valves can be mounted in any position without affecting operation
- Installation/maintenance instructions are included with each valve
- Spare parts kits are available

DIMENSIONS (mm), WEIGHT (kg)

<table>
<thead>
<tr>
<th>type</th>
<th>operator diameter</th>
<th>type</th>
<th>øA</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>H (1)</th>
<th>weight (2)</th>
<th>weight (3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>63 mm</td>
<td></td>
<td>1/2</td>
<td>170</td>
<td>182</td>
<td>169</td>
<td>65</td>
<td>27</td>
<td>125.5</td>
<td>1.2</td>
<td>1.37</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3/4</td>
<td>175</td>
<td>185</td>
<td>170</td>
<td>75</td>
<td>32</td>
<td>125.5</td>
<td>1.3</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
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<td>1</td>
<td>179</td>
<td>192</td>
<td>172</td>
<td>90</td>
<td>41</td>
<td>125.5</td>
<td>1.7</td>
<td>1.87</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 1/4</td>
<td>217</td>
<td>229</td>
<td>204</td>
<td>110</td>
<td>50</td>
<td>125.5</td>
<td>2.1</td>
<td>2.27</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 1/2</td>
<td>224</td>
<td>245</td>
<td>215</td>
<td>120</td>
<td>60</td>
<td>125.5</td>
<td>2.9</td>
<td>3.07</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>249</td>
<td>259</td>
<td>224</td>
<td>150</td>
<td>70</td>
<td>125.5</td>
<td>3.7</td>
<td>3.87</td>
</tr>
</tbody>
</table>

(1) Maximum size with pilot.
(2) Weight of the valves without pilot.
(3) Weight of the valves with pilot.

Optical position indicator
Filter-plug (non-removable)
Pilot solenoid valve despatched separately: see preceding page
VALVES
pressure operated entry under the disc
for combustible gas, according to EN 161
stainless steel body, 3/8 to 2 threaded ports

FEATURES
• Valves for combustible gas, stainless steel body
• Valves satisfy the Pressure Equipment Directive 2014/68/EU, EN 161 and satisfy the Regulation (EU) 2016/426 on gas appliances
  EU type examination certificate no.: CERTIGAZ 1312CO6072 (32 mm operator)
  EU type examination certificate no.: CERTIGAZ 1312CP5992 (63 mm operator)
• All valves are for class D - Groupe 2 service and cover gas family 1 - 2 and 3
• High flow due to angled seat design - fluid entry under the disc
• High performance maintenance-free stuffing box

GENERAL

<table>
<thead>
<tr>
<th>fluids</th>
<th>temperature range (TS)</th>
<th>disc seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>gas family 1 - 2 - 3</td>
<td>-10°C to +60°C</td>
<td>PTFE</td>
</tr>
</tbody>
</table>

Differential pressure 0 to 1 bar [1 bar = 100 kPa]
Time for closing / for opening 1 s max. with pilot solenoid valve directly connected to valve operator
Pilot fluid Air
Max. pilot pressure 9 bar
Min. pilot pressure 5.5 bar (32 mm dia.) / 3.5 bar (63 mm dia.)
Pilot fluid temperature -10°C to +60°C

CONSTRUCTION
Valve body Stainless steel
Stuffing box packing PTFE chevrons
Disc seal PTFE
Operator Glass fibre filled PA
Pilot port insert Brass

PILOT SOLENOID VALVES SELECTION
• Must meet European low voltage directive and electromagnetic compatibility requirements
• Non-locking NC 3/2 versions (without manual operator)
• Must allow the main valve to close automatically as per standard EN 161

<table>
<thead>
<tr>
<th>operator diameter (mm)</th>
<th>valve required to (Kv m³/h) min. (1) through pilot valve</th>
<th>valve recommended to open the valve (description catalogue number)</th>
</tr>
</thead>
<tbody>
<tr>
<td>32/63</td>
<td>0.04</td>
<td>356 G1/8 Ø1.2 SCG356B061V</td>
</tr>
</tbody>
</table>

(1) Including pipe up to main valve.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>piping (ISO 6708)</th>
<th>flow coefficient Kv (2)</th>
<th>pilot pressure (bar)</th>
<th>operating pressure differential (bar)</th>
<th>operator diameter (mm)</th>
<th>catalogue number</th>
</tr>
</thead>
<tbody>
<tr>
<td>pipe size DN</td>
<td>(m³/h)</td>
<td>(l/min)</td>
<td>min.</td>
<td>max.</td>
<td>min.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NC - Normally closed, entry under the disc</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8 10</td>
<td>25 410</td>
<td>5.5 9</td>
<td>0 1</td>
<td>32</td>
<td>EGE290A791</td>
</tr>
<tr>
<td>1/2 15</td>
<td>40 660</td>
<td>5.5 9</td>
<td>0 1</td>
<td>32</td>
<td>EGE290A792</td>
</tr>
<tr>
<td>3/4 20</td>
<td>60 1000</td>
<td>5.5 9</td>
<td>0 1</td>
<td>63</td>
<td>EGE290B045</td>
</tr>
<tr>
<td>1 25</td>
<td>75 1250</td>
<td>5.5 9</td>
<td>0 1</td>
<td>32</td>
<td>EGE290A793</td>
</tr>
<tr>
<td>1 1/4 32</td>
<td>100 1650</td>
<td>3.5 9</td>
<td>0 1</td>
<td>63</td>
<td>EGE290B047</td>
</tr>
<tr>
<td>1 1/2 40</td>
<td>190 3150</td>
<td>3.5 9</td>
<td>0 1</td>
<td>63</td>
<td>EGE290A057</td>
</tr>
<tr>
<td>2 50</td>
<td>300 5000</td>
<td>3.5 9</td>
<td>0 1</td>
<td>63</td>
<td>EGE290A063</td>
</tr>
<tr>
<td>2 1/2 60</td>
<td>390 6500</td>
<td>3.5 9</td>
<td>0 1</td>
<td>63</td>
<td>EGE290A067</td>
</tr>
</tbody>
</table>

(2) For 100 mbar (DN15 to DN32) & 60 mbar (DN40) pressure drop air (reference density air at 1.013 mbar and 15°C).
OPTIONS (CERTIFIED EN 161)

- Signaling box with mechanical or inductive contacts [SM2/SI2 (www.asco.com)]
- Signaling box, intrinsically safe inductive contacts NAMUR [SH2 ATEX, (www.asco.com)]
- Positioner (www.asco.com)

INSTALLATION

- Install strainer upstream of valve with a mesh size below 1.5 mm through which a 1 mm dia. rod cannot pass
- The valves can be mounted in any position without affecting operation
- Installation/maintenance instructions are included with each valve
- Spare parts kits are available

DIMENSIONS (mm), WEIGHT (kg)

**TYPE 01**
32 mm operator
Fluid entry: under the disc at 2

<table>
<thead>
<tr>
<th>type</th>
<th>operator diameter</th>
<th>ØA</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>H</th>
<th>K (1)</th>
<th>weight (2) (3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>32 mm</td>
<td>7/8</td>
<td>92</td>
<td>93</td>
<td>81,5</td>
<td>55</td>
<td>23,5</td>
<td>102</td>
<td>0,18 0,35</td>
</tr>
<tr>
<td></td>
<td>1/2</td>
<td>99</td>
<td>97</td>
<td>81,5</td>
<td>65</td>
<td>28</td>
<td>102</td>
<td>0,23 0,4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3/4</td>
<td>107</td>
<td>104,5</td>
<td>88</td>
<td>75</td>
<td>30</td>
<td>102</td>
<td>0,28 0,45</td>
<td></td>
</tr>
</tbody>
</table>

(1) Maximum size with pilot.
(2) Weight of the valves without pilot.
(3) Weight of the valves with pilot.

**TYPE 02**
63 mm operator
Fluid entry: under the disc at 2

<table>
<thead>
<tr>
<th>type</th>
<th>operator diameter</th>
<th>ØA</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>H</th>
<th>K (1)</th>
<th>weight (2) (3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>63 mm</td>
<td>7/8</td>
<td>170</td>
<td>182</td>
<td>169</td>
<td>65</td>
<td>27</td>
<td>125,5</td>
<td>1,2 1,37</td>
</tr>
<tr>
<td></td>
<td>3/4</td>
<td>175</td>
<td>185</td>
<td>170</td>
<td>75</td>
<td>32</td>
<td>125,5</td>
<td>1,3 1,47</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>179</td>
<td>192</td>
<td>172</td>
<td>90</td>
<td>41</td>
<td>125,5</td>
<td>1,7 1,87</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 1/4</td>
<td>217</td>
<td>229</td>
<td>204</td>
<td>110</td>
<td>50</td>
<td>125,5</td>
<td>2,1 2,27</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 1/2</td>
<td>224</td>
<td>245</td>
<td>215</td>
<td>120</td>
<td>60</td>
<td>125,5</td>
<td>2,9 3,07</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>249</td>
<td>259</td>
<td>224</td>
<td>150</td>
<td>70</td>
<td>125,5</td>
<td>3,7 3,87</td>
<td></td>
</tr>
</tbody>
</table>

(1) Maximum size with pilot.
(2) Weight of the valves without pilot.
(3) Weight of the valves with pilot.

(1) Optical position indicator
(2) Filter-plug (non-removable)
(3) Pilot solenoid valve despatched separately: see preceeding page

All leaflets are available on: www.asco.com
FEATURES

• Precise, quick-acting and robust valve suitable for use in outside industrial environments
• Exceptional long service life
• Variable flow proportional to the control signal
• Real-time control
• Ready-to-use valve
• The positioner can be directly connected to an external sensor (double loop control)
• Power saving function and no air consumption when position is reached
• Manual valve operator
• LED indicators for valve status display
• Valves satisfy the Pressure Equipment Directive 2014/68/EU, EN 161 and satisfy the Regulation (EU) 2016/426 on gas appliances

EU type examination certificate no.: CERTIGAZ 1312CP5992

GENERAL

Differential pressure 1 bar [1 bar = 100 kPa]
Maximum allowable pressure 16 bar
Ambient temperature range 0°C to +50°C
Maximum viscosity 600 cSt (mm²/s)
Pilot fluid Air or inert gas, filtered 25 µm, un lubricated, condensate-free and water-free (observe the pressure dew point)
Pilot pressure 5 to 8 bar
Pilot fluid temperature 0°C to +50°C

ELECTRICAL CHARACTERISTICS

Setpoint reached output ON/OFF, 24 V PNP / max. 500 mA
Analog position feedback signal 0-10 V / 4-20 mA
Analog setpoint 0-10V (Rin = 200 kΩ); 4-20 mA (Rin = 250 Ω)
Nominal supply voltage 24 V DC ± 10%, max. ripple 10%
Power 7.6 W (3.6 W, setpoint reached)
Connection Screw terminals, cable gland (cable Ø 5-10 mm) or connection M12 (ONOMO E03.62.520.N)
Degree of protection IP66 (EN 60529)
Electromagnetic compatibility EMC 2004/108/EC
Regulation characteristics Hysteresis < 2%
Accuracy < 2%
Repeatability < 1%

CONSTRUCTION

Valve disc (2/2) Profiled disc, stainless steel and PTFE
Positioner body Aluminium
Cover PA 12, transparent

The actuator exhaust air is used to ventilate the electronics housing.
PROPORTIONAL VALVE, for combustible gas, according to EN 161 SERIES 290

SPECIFICATIONS

<table>
<thead>
<tr>
<th>pipe size (DN)</th>
<th>orifice size (mm)</th>
<th>pilot pressure (bar)</th>
<th>flow (Kv), opening of proportional valve</th>
<th>catalogue number</th>
<th>suffix for proportional valve and positioner / delivered assembled</th>
<th>fail close / 2 way</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 (15)</td>
<td>5</td>
<td>8</td>
<td>63</td>
<td>EGE290B045</td>
<td>PDB66</td>
<td>M12 cable gland</td>
</tr>
<tr>
<td>3/4 (20)</td>
<td>7</td>
<td>11</td>
<td>115</td>
<td>EGE290B047</td>
<td>PDB70</td>
<td>M12 cable gland</td>
</tr>
<tr>
<td>1 (25)</td>
<td>15</td>
<td>25</td>
<td>150</td>
<td>EGE290B051</td>
<td>PDB72</td>
<td>M12 cable gland</td>
</tr>
<tr>
<td>1 1/4 (32)</td>
<td>21</td>
<td>350</td>
<td>63</td>
<td>EGE290B057</td>
<td>PDB74</td>
<td>M12 cable gland</td>
</tr>
<tr>
<td>1 1/2 (40)</td>
<td>29</td>
<td>483</td>
<td>125</td>
<td>EGE290B063</td>
<td>PDB76</td>
<td>M12 cable gland</td>
</tr>
<tr>
<td>2 (50)</td>
<td>40</td>
<td>667</td>
<td>150</td>
<td>EGE290B067</td>
<td>PDB78</td>
<td>M12 cable gland</td>
</tr>
<tr>
<td>3/4 (20)</td>
<td>7</td>
<td>11</td>
<td>115</td>
<td>EGE290B047</td>
<td>PDB70</td>
<td>M12 cable gland</td>
</tr>
<tr>
<td>1 (25)</td>
<td>15</td>
<td>25</td>
<td>150</td>
<td>EGE290B051</td>
<td>PDB72</td>
<td>M12 cable gland</td>
</tr>
<tr>
<td>1 1/4 (32)</td>
<td>21</td>
<td>350</td>
<td>63</td>
<td>EGE290B057</td>
<td>PDB74</td>
<td>M12 cable gland</td>
</tr>
<tr>
<td>1 1/2 (40)</td>
<td>29</td>
<td>483</td>
<td>125</td>
<td>EGE290B063</td>
<td>PDB76</td>
<td>M12 cable gland</td>
</tr>
<tr>
<td>2 (50)</td>
<td>40</td>
<td>667</td>
<td>150</td>
<td>EGE290B067</td>
<td>PDB78</td>
<td>M12 cable gland</td>
</tr>
</tbody>
</table>

OPTIONS AND ACCESSORIES

- Female M12 connector: straight
- 5 pins, with screw terminals, catalogue number: 88100256
- Supply cable 5 m, 5 x 0,25 mm², catalogue number: 88130212
- Supply cable 5 m, 6 x 0,5 mm², catalogue number: 88100728
- Supply cable 10 m, 6 x 0,5 mm², catalogue number: 88100730

INSTALLATION

- Pilot port G 1/8 according to ISO 228/1
- Compatible with ASTM 1, 2 and 3 oils
- Installation/maintenance instructions are included with each proportional valve
- LED indicators for operating status display and diagnostic functions (Unit can be rotated through 360° around the centreline of the valve operator)

<table>
<thead>
<tr>
<th>status</th>
<th>hold position</th>
<th>valve OPEN</th>
<th>valve CLOSED</th>
<th>valve moves to open</th>
<th>valve moves to close</th>
<th>positioner in initialisation mode</th>
<th>positioner in manual mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>setpoint</td>
<td>&gt; 20,5 mA / 10,25 V</td>
<td>&lt; 3,5 mA</td>
<td>setpoint not initialised</td>
<td>component error</td>
<td>Electrical connection: Positioner, single loop</td>
<td>Electrical connection: Positioner, double loop</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>screw terminals</th>
<th>M12</th>
<th>Electrical connection: Positioner, single loop</th>
<th>Electrical connection: Positioner, double loop</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>+ 24 V DC, supply</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>GND supply</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>+ setpoint (0-10 V or 4-20 mA)</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>GND setpoint</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>disc position feedback</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>+ 24V ON/OFF output</td>
<td>5</td>
<td>7</td>
</tr>
</tbody>
</table>
SPARE PARTS KITS

<table>
<thead>
<tr>
<th>pipe size (DN)</th>
<th>spare parts kit no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>stainless steel (E290)</td>
</tr>
<tr>
<td>1/2 (15)</td>
<td>C131204</td>
</tr>
<tr>
<td>3/4 (20)</td>
<td>C131205</td>
</tr>
<tr>
<td>1 (25)</td>
<td>C131206</td>
</tr>
<tr>
<td>1 1/4 (32)</td>
<td>C131207</td>
</tr>
<tr>
<td>1 1/2 (40)</td>
<td>C131208</td>
</tr>
<tr>
<td>2 (50)</td>
<td>C131209</td>
</tr>
</tbody>
</table>

DIMENSIONS (mm), WEIGHT (kg)

**TYPE 01**
Enclosure with cable gland
63 mm operator
Fluid entry: under the disc at 2

**TYPE 02**
Enclosure with M12 connection
63 mm operator
Fluid entry: under the disc at 2

1. M16 x 1.5 mm cable gland (cable Ø 5-10 mm)
2. M12 connection
3. G 1/8 pilot connection

Weight of positioner without valve: 0.3 kg