FEATURES
- Open loop proportional valves for automatic flow control of water and other non-corrosive liquids
- Special valve design to reduce pressure surges to a minimum, preventing waterhammer and ensuring noise-free closing
- The solenoid valves satisfy all relevant EU directives

GENERAL

Differential pressure
See «SPECIFICATIONS» [1 bar = 100 kPa]

Maximum viscosity
40 cSt (mm²/s)

<table>
<thead>
<tr>
<th>Fluids (+)</th>
<th>Temperature range (TS) (1)</th>
<th>Seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water, oil</td>
<td>-10°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: Brass
Core tube: Stainless steel
Core and plug nut: Stainless steel
Springs: Stainless steel
Riderring: PTFE
Seals, diaphragm: NBR
Disc: FPM
Breaker piece: Stainless steel

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)
Standard voltages: DC (=): 24V (Other voltages on request)

Voltage regulation: 0 - 24 V DC
24 V DC pulse width modulated (300 Hz)
Flow regulation characteristics: Hysteresis < 7.5%; Repeatability < 3%; Sensitivity < 2%

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>3/8</td>
<td>12.5</td>
<td>2.1</td>
<td>0.3</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>1/2</td>
<td>12.5</td>
<td>2.1</td>
<td>0.3</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

All leaflets are available on: www.asco.com
PROPORTIONAL SOLENOID VALVES SERIES 203

OPTIONS

- Valves can also be supplied with FPM (fluoroelastomer) seals and discs
- Waterproof enclosure with embedded screw terminal coil according to protection class IP67, CEE-10
- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU, on request
- Electrical enclosures according to “NEMA” standards are available
- Mounting brackets
- Electronic proportional control unit [catalogue number: E908A001 (www.asco.com) / X90850164500100-0200 (www.asco.com)]
- Features:
  - analog input control signals: 0 - 10 V DC, 0 - 20 mA or 4 - 20 mA
  - coil current (= flow rate) adjustable to required control signals
  - switch-off function at less than 2% of the maximum control function
  - adjustable ramp control
  - adjustable frequency
  - output current independent of coil resistance and supply voltage variations
  - housed in: a box with spade plug connector according to ISO 4400 / IP65

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation. For optimum performance mount solenoid vertical and upright
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve

SPARE PARTS KITS

catalogue number  | spare parts kit no.
------------------|---------------------
SCG203B001/B002 | C132856

(1) Standard prefixes/suffixes are also applicable to kits.
- Not available

ORDERING EXAMPLES:

ORDERING EXAMPLES KITS:

- prefix
- pipe thread
- basic number
- suffix

- weight (kg)

DIMENSIONS (mm), WEIGHT (kg)

<table>
<thead>
<tr>
<th>TYPE 01</th>
<th>Prefix “SC” Solenoid Epoxy moulded IEC 335 / ISO 4400 IP65</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>85</td>
<td>50</td>
</tr>
<tr>
<td>SCG203B001</td>
<td>SCG203B002</td>
</tr>
</tbody>
</table>

(1) including coil and connector.

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