FEATURES

- Variable valve opening (flow), proportional to the control signal
- Digital controller with two operating buttons and position indication
- Valves do not require a minimum operating pressure
- Low power consumption
- Wear-resistant ceramic control discs
-Insensitive to contamination
- Suitable for vacuum and overpressure applications
- Mechanical separation of electrical actuator from fluid-carrying parts
- Valve position maintained on loss of power
- Valves can be mounted in any position
- The solenoid valves satisfy all relevant EU directives

GENERAL

Differential pressure: -0.9 to +10 bar (usable in 0.1 bar abs. vacuum) [1 bar = 100 kPa]
Ambient temperature range: 0°C to +50°C
Maximum viscosity: 80 cSt (mm²/s)
Actuating time: 2 s

<table>
<thead>
<tr>
<th>fluids (+)</th>
<th>temperature range (TS) (1)</th>
<th>seal materials (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>air, inert gas, water, oil</td>
<td>-5°C to +90°C</td>
<td>oxide ceramics, EPDM (ethylene-propylene)</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
Internal parts: POM, stainless steel
Seals: Oxide ceramics, EPDM

ELECTRICAL CHARACTERISTICS

Connector: 5-pin female M12 connector
Electrical enclosure protection: IP65 (EN 60529)
Standard voltage: DC (=): 24V
Power consumption: 6 W (max. 10 W at end of stroke)

Flow regulation characteristics (2): Hysteresis < 3%; Repeatability < 2%; 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>setpoint</th>
<th>feedback output</th>
<th>catalogue number</th>
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</thead>
<tbody>
<tr>
<td>3/4</td>
<td>15</td>
<td>3.5, 58</td>
<td>-0.9, 10, 10</td>
<td>0-10 V</td>
<td>0-20 mA</td>
<td>6100011x</td>
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<tr>
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<td></td>
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<td>0-20 mA</td>
<td>0-10 V</td>
<td>0-20 mA</td>
<td>61000210x</td>
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<tr>
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<td></td>
<td></td>
<td>4-20 mA</td>
<td>0-10 V</td>
<td>0-20 mA</td>
<td>6100031x</td>
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<td>0-20 mA</td>
<td>0-10 V</td>
<td>0-20 mA</td>
<td>6100111x</td>
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<td>0-20 mA</td>
<td>0-10 V</td>
<td>0-20 mA</td>
<td>6100121x</td>
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<td>4-20 mA</td>
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<td>0-20 mA</td>
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<td>0-20 mA</td>
<td>0-20 mA</td>
<td>6100211x</td>
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<td>4-20 mA</td>
<td>0-20 mA</td>
<td>0-20 mA</td>
<td>6100221x</td>
</tr>
</tbody>
</table>

Values related to valve position.

(1) Damage may occur when liquids solidify above the specified minimum temperature.
(2) Values related to valve position.

controller structure

x

standard version (position controller)
0
External feedback input 0 - 10 V (double loop (cascade) control)
1
External feedback input 0 - 20 mA (double loop (cascade) control)
2
External feedback input 4 - 20 mA (double loop (cascade) control)
3
External frequency input NPN (after GND) (double loop (cascade) control)
4
External frequency input PNP (after +24 V) (double loop (cascade) control)
5

All leaflets are available on: www.asco.com
OPTIONS AND ACCESSORIES
- Female M12 connector:
  - 5 pins, with screw terminals, catalogue number: 88100256, 88100725
  - Supply cable 2 m, 5 x 0.25 mm², catalogue number: 88100726, 88100727
  - Supply cable 5 m, 6 x 0.56 mm², catalogue number: 88100728, 88100729
  - Supply cable 10 m, 6 x 0.56 mm², catalogue number: 88100730, 88100731
- Software tool for PC “ASCO-MotorCom” available for download at: www.asco.com
- RS-232 converter, 2 m cable with 9 pin Sub-D connector for PC link, catalogue number 88100732

INSTALLATION
- The solenoid valves can be mounted in any position without affecting operation
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve
- LED display
  - LED red = low voltage or overvoltage (blinking)
  - LED green = pressure switch
  - LED yellow = manual operation

- Electrical connection:
  - Male connector pinning (power supply)
  - Female connector pinning (sensor)

ORDERING EXAMPLES:
- 610 0 0 1 0
- 610 0 0 1 2 1
- 610 0 2 3 1 2

DIMENSIONS (mm), WEIGHT (kg)

weight
1.1

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