2/2 Motorised valves - on/off

Easy to use and install

Installation
- Simple electrical connection via a connector ISO 4400 (M12 connector optional):
  - 24 VDC or 110 to 250 VAC 50/60 Hz
  - 24 to 48 VAC 50/60 Hz (contact us)
- Electrical supply - 2 wires (supply cable)
- 1 contact on/off - 1 wire
- Auto-adjustment and auto-initialisation from the first time it is powered up

Use
- 360° view of the valve status through LEDs
- Response time < 2 seconds / cycle

Reliable and robust
- Reliability of your process:
  - Standard: valve position fixed on loss of power
  - Optional: valve closes on loss of power
- Lifetime of more than 1 million cycles
  using air or water as the process medium, operating at ambient temperature and at a rate of 10 cycles / minute
- Degree of protection: IP65

Cost-effective
- Low energy consumption: 12 W during the opening and closing phase (1 cycle < 2 s) and 0 W when idle

Compact and light
- Compact: actuator 67 mm for 3 DN (10, 15 and 20 mm)
- Light: DC version = 0.550 kg
  AC version = 0.650 kg

Environmentally friendly
- No exhaust air: works silently
- ASCO Numatics; ISO 14001 certified
- NBR coating on valve shutter (FPM optional for aggressive fluids*)
- Control head made from robust transparent polyamide enabling:
  - easy location of the LEDs
  - high resistance against industrial pollutants and ageing
- Removable connector
- 360° view with 3 LEDs (valve status)
- Motor
- AISI 303 stainless steel shaft (AISI 316L optional for aggressive fluids*)
- Inclined seat anti-water hammer
- Valve body in AISI 316L stainless steel
- Valve plug integrated with the stem to eliminate retention zones
- Stuffing box made from glass fibre-reinforced thermoplastic polyester resin (30%)
- Power converter box (AC)
- Lipseal

* Subject to chemical compatibility with the fluid
Technical specifications

General specifications

<table>
<thead>
<tr>
<th>Controlled fluids</th>
<th>Water, air, oil, gas, filled fluids, viscous fluids (max. viscosity 600 cSt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection</td>
<td>ISO 228/1 &amp; ISO 7/1 (tapping combination) or NPT (on request)</td>
</tr>
<tr>
<td>DN</td>
<td>10 15 20</td>
</tr>
<tr>
<td>Differential pressure</td>
<td>0-6 bar 0-5 bar 0-4 bar</td>
</tr>
<tr>
<td>Maximum allowable pressure</td>
<td>10 bar 10 bar 10 bar</td>
</tr>
<tr>
<td>Kv</td>
<td>2.7 m³/h 3.8 m³/h 6 m³/h</td>
</tr>
<tr>
<td>Fluid temperature</td>
<td>-10°C to +90°C</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-10°C to +50°C</td>
</tr>
<tr>
<td>Valve actuator</td>
<td>67 mm</td>
</tr>
<tr>
<td>Response time</td>
<td>&lt; 2 seconds/cycle</td>
</tr>
</tbody>
</table>

| Recommended maximum usage cycle   |                                                                            |
|-----------------------------------|                                                                            |
| Ambient temperature +20°C         | 9 cycles/min                                                                |
| Ambient temperature +50°C (max.)  | 4 cycles/min                                                                |

Electrical specifications

| Connector                         | Removable (cable Ø 6-10 mm)                                                |
|-----------------------------------|                                                                            |
| Connector compliance              | ISO 4400 / EN 175301-803, type A                                          |
| Power consumption                 | 12 W when running, 0 W when idle                                           |
| Maximum inrush current            | 0.7 A                                                                       |
| View of valve (switching)         | LEDs                                                                        |
| Electrical compliance (AC/DC adapter) | IEC 335 (EN-IEC 60730), class 2                                           |
| Electrical protection             | IP65 (EN 60529)                                                            |
| Standard voltages                 | DC (=): 24 V ±10 %, max. residual ripple 5%                                 |
| (EN-IEC 61131-2)                  | AC (−): 110 V to 250 V / 50-60 Hz                                                |
(1) 24 V to 48 VAC /50-60 Hz, contact us.

Can be used in

- Car washes
- Hydrotherapy
- On-board equipment (agriculture, road-cleaning vehicles, buses, etc.)
- Oil cooling in wind-turbine transformers
- Water treatment (treatment tower - tank filling)
- Wine production (thermoregulation)
- Industrial/domestic heating/cooling equipment
- Feeding processes

Option to control valve using input/output modules and G3 electronic modules

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