Electric Automation for Propane Valves

Benefit from maintenance-free valve operation and control internal, ESV or 3-way valves quickly with fail-safe protection. Discover our electric alternative to pneumatic, nitrogen and/or cable systems.

CSA/UL rated explosion-proof enclosures
Class I, Div I, Group B, C, D
**General Description:**

Type Rxx electric / electronic actuator are used to precisely position small valves and devices

**Gears:** Rxx actuators use sintered, greased for life metal gearing only

**Housing:** All housing parts anodized aluminum

**Bearings:** Oiled for life porous bronze bearings

**External Fasteners:** Stainless Steel

**Manual Override:** Mounted directly on the valve stem

**Control:** 24 VDC TTL

**Limit Switches:** Switches are triggered at fully closed, and fully open position. (Independent I/O)

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**General Specifications**

- **Enclosure:**
  - NEMA 6 / IP67
  - IP68 / 40°C (104°F)

- **Enclosure:**
  - Class I, Div 1 Groups B, C, D / T6

- **Temperature range:**
  - -40°C/F .. 70°C (185°F) Internal heater standard

- **Finish:**
  - Anodized white, Stainless

- **Stall protection:**
  - By current sense and motion detection

- **Feedback:**
  - Limit Switches

- **Life Expectance:**
  - 250,000 cycles or equivalent under specified conditions

- **Motor:**
  - BLDC brushless DC motor

- **Volages/Current:**
  - 12-24 VDC / Max3A @ 24VDC
  - 110/220 VAC / Max3A @ 110/220VAC

- **Positioning precision:**
  - +/- 3 deg

- **Range setting:**
  - Set according to valve

- **Speed setting:**
  - Set according to valve

- **End of travel detection:**
  - By current sense and motion detection

- **Power setting:**
  - Set according to valve

- **Motor control:**
  - Internal micro controller

- **Mechanical shock:**
  - 1 m drop test no damage to function Random SAE J1211, Chassis, Exterior

- **Mechanical vibration:**
  - Random SAE J1211, Chassis, Exterior

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**Performance:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Torque [in-lbs]</th>
<th>Speed Range [time to open]</th>
<th>Speed Range [time to close]</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDM</td>
<td>90 in-lbs</td>
<td>4 seconds</td>
<td>2 seconds (2 seconds when power is lost)</td>
</tr>
<tr>
<td>RDU</td>
<td>600 in-lbs</td>
<td>10 seconds</td>
<td>10 seconds (18 seconds when power is lost)</td>
</tr>
</tbody>
</table>

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**Safety Features:**

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**Fusible Link**

UL rated mechanically fails at 100°C (212°F), allowing internal valve’s spring to shut off the flow.

**Electronic Thermal Cut-Off**

Internal component cuts power line at 98°C (208°F). Actuator closes when power is lost.

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**Open & Close Limit Switch**

Spec’d to the open and closed positions of the valve.

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