**Energy products**

**High recovery gas metering valve**

**C423025, C423035, C423045**

Two, three or four-inch flange, electrically actuated

Meggitt’s precision plug style gas metering valve is designed for use on aero-derivative and large frame industrial gas turbines. This product offers precision gas flow metering with exceptionally high pressure recovery.

**Specifications**

<table>
<thead>
<tr>
<th>Function:</th>
<th>High pressure recovery, gas flow control for turbine engines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical size:</td>
<td>See tabulation</td>
</tr>
<tr>
<td>Weight:</td>
<td>2”, 100 pounds; 3” 160 pounds; 4”, 230 pounds</td>
</tr>
<tr>
<td>Flange type:</td>
<td>ANSI B16.5 CL 300 raised face flanges</td>
</tr>
<tr>
<td>Line pressure:</td>
<td>0 to 500 psig</td>
</tr>
<tr>
<td>Fluid temperature:</td>
<td>~40 to 450°F</td>
</tr>
<tr>
<td>Ambient temperature:</td>
<td>~20 to 200°F</td>
</tr>
</tbody>
</table>

**Performance:**

- Trim profiles: Cg = 300, 600, 800, 1200, 2000, 2900 and 3500
- Pressure drop: Choked flow pressure ratio ≤1.08

**Electrical:**

- Motor: 90 to 200 VDC, 0.3 ampere steady state, 8 amperes peak
- Resolver: 4 VAC, 25 to 60 milliamperes
- LVDT: Excitation, 7.07 ±0.14 volts rms, 3000 ±300 Hz
- Thermostat: Opens at 329 to 347°F, resets at 251 to 270°F

**Key features**

- Patented design
- Exceptionally high gas pressure recovery
- Fail-safe closed
- Designed for use on both DLE and SAC turbine engines
- NEC class 1, division 1, groups C and D; T4 temp code, CE PED certified, ATEX group II, category 2, zone 1 (II2G)
- All stainless steel valve and yoke materials for NACE compliance
- No maintenance required under normal conditions

**Meggitt Control Systems**

Our product competencies & services:

- Aerospace valves
- Thermal management solutions
- Environmental control systems
- Electro-mechanical products
- Ground fueling products
- Energy products
- Aftermarket services

MEGGITT
smart engineering for extreme environments
Energy products

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Key dimensions

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