Energy products

Gas metering valve
C421895

Three-inch flange, 90 to 140 vdc, electromechanically actuated (EMA)

Meggitt’s three-inch globe style gas metering valve is designed for use on a variety of industrial gas turbines. This product utilizes the same high reliability features as all Meggitt electric gas metering valves.

 Specifications

Function: Precision fuel gas metering for aero-derivative turbine engine control
Physical size: 12.5” flange to flange, 9.78” wide, 28” high
Weight: 120 pounds
Flange type: 3” ANSI B16.5 CL 600 raised face flanges
Line pressure: 0 to 350 psia
Fluid temperature: 32 to 300°F
Ambient temperature: −65 to 150°F

Performance:
Flow: Linearly proportional to valve stroke
Internal leakage: ANSI class IV
Operating time: 175 msec full stroke response, 150 msec 50% step response, 300 msec fail-safe closed (power loss)

Electrical:
Motor: Steady state, 90 to 140 VDC, 0.50 amperes; 10 amperes maximum transient (100 msec)
Resolver: 4 VAC, 25 to 60 ma maximum
Closed position indicating switch: SPDT
Thermostat: Opens at 329 to 347°F; resets at 251 to 270°F

Key features

• Accuracy, ±3% of flow point
• High speed brushless DC servo motor performance, 20 Hz frequency response
• 175 msec full stroke response time
• Used on both DLE and SAC turbine engines
• Explosion proof design, CSA/UL certified for NEC class 1, division 1, groups C and D, temp code T4, CE EExd IIB, Zone 1, CE-ATEX certified
• All stainless steel valve and yoke materials for NACE compliance
• No maintenance required under normal conditions

Meggitt Control Systems
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Key dimensions

NOTE: DIMENSIONS SHOWN ARE IN INCHES

Contact

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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