Energy products

Gas fuel staging valve
C422465

One-inch port, 125 vdc, solenoid actuated (SA)

Meggitt’s one-inch poppet style gas fuel staging valve is in use on a variety of aero-derivative industrial gas turbine engines. Millions of field operating hours continue to prove the high reliability of Meggitt technology.

Specifications

Type: Normally open, poppet, solenoid actuated
Function: Fuel gas flow shutoff for aero-derivative turbine engine control
Physical size: 3.57” wide, 3.57” deep, 12.04” high
Weight: 26 pounds maximum
Operating pressure: 900 psig maximum at 300°F maximum
Fluid temperature: -40 to 300°F
Ambient temperature: -40 to 250°F

Performance:

Flow: 2520 pounds/hour maximum
Pressure drop: 7.5 psid at 495 psia, 150°F and 840 pounds/hour
Internal leakage: 2.5 pounds/hour maximum, all operating conditions
Operating time: Less than 150 msec full stroke response, fully open or fully closed

Electrical:

Solenoid: Continuous duty, 125 VDC nominal (110 to 140 VDC), 1 ampere maximum, dropout voltage 8 VDC
Closed position indicating switch: 10 to 32 VDC, 3-wire, SPDT
Electrical connector: M83723/83G1407N

Key features

- Normally open, fail open
- Closed position indicating switch circuit
- 150 msec full stroke response time, open or close
- Used on both DLE and SAC turbine engines
- Non incendiary design, CSA/UL certified for NEC class 1, division 2, group D, T2C CE-ATEX group II, category 3, zone 2, EEx nC II T2, CE-PED certified
- All stainless steel valve and body 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

smart engineering for extreme environments

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Key dimensions

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