

AVG3.0 and AVG4.0 Gas valves

5002673, 5003984

Three and four inch all-electric linear actuated gas valves



Key features

- 30-100 MW gas turbine applications.
- High throughput for larger engine applications.
- High force and large flow area reduces risk of contamination.
- Programmable calibration for a variety of applications.
- Configuration software provided.
- Certified for hazardous area environments.
- Wide operating temperature range.
- Fail-safe operation.
- Increased safety integrity level (SIL).
- Available in four- and six-inch configurations to meet larger fuel flow requirements.
- US patent no 6,392,322.

The AVG design is based on Meggitt's patented all-electric actuator technology, providing large, low emission gas turbines with reliable fuel control valve operation and accurate fuel flow control. The valve incorporates a pressure balanced design with contamination-resistant and NACE-compliant materials providing fast valve operation over a wide supply pressure range. The flow-through design results in self-cleaning, superior flow performance.

Specifications

| | |
|-----------------------------|--|
| Function | All-electric gas fuel metering valve |
| Application | 30 - 100 MW gas turbine |
| Physical size | 3-inch: 12.50" flange-to-flange, 30.57" high 4-inch: 14.50" flange-to-flange, 33.01" high |
| Weight | 3-inch: 200 lbs, 4-inch: 245 lbs |
| Flange type | AMSE B16.1 |
| Line pressure | 500 psig max |
| Fuel temperature | -40°F to 257°F |
| Ambient temperature | -40°F to 200°F |
| Control/feedback interfaces | 4 to 20 ma |
| Logic I/O interfaces | 24 VDC |
| Performance | |
| Flow | 3-inch: CV = 120, 4-inch: CV = 194 |
| Operating time | <150 msec (10% to 90% stroke) |
| Electrical | |
| Input voltage | 120 VDC nominal |
| Current | <1 A typical, 20 A max |
| Certifications | CSA, CE, ATEX |

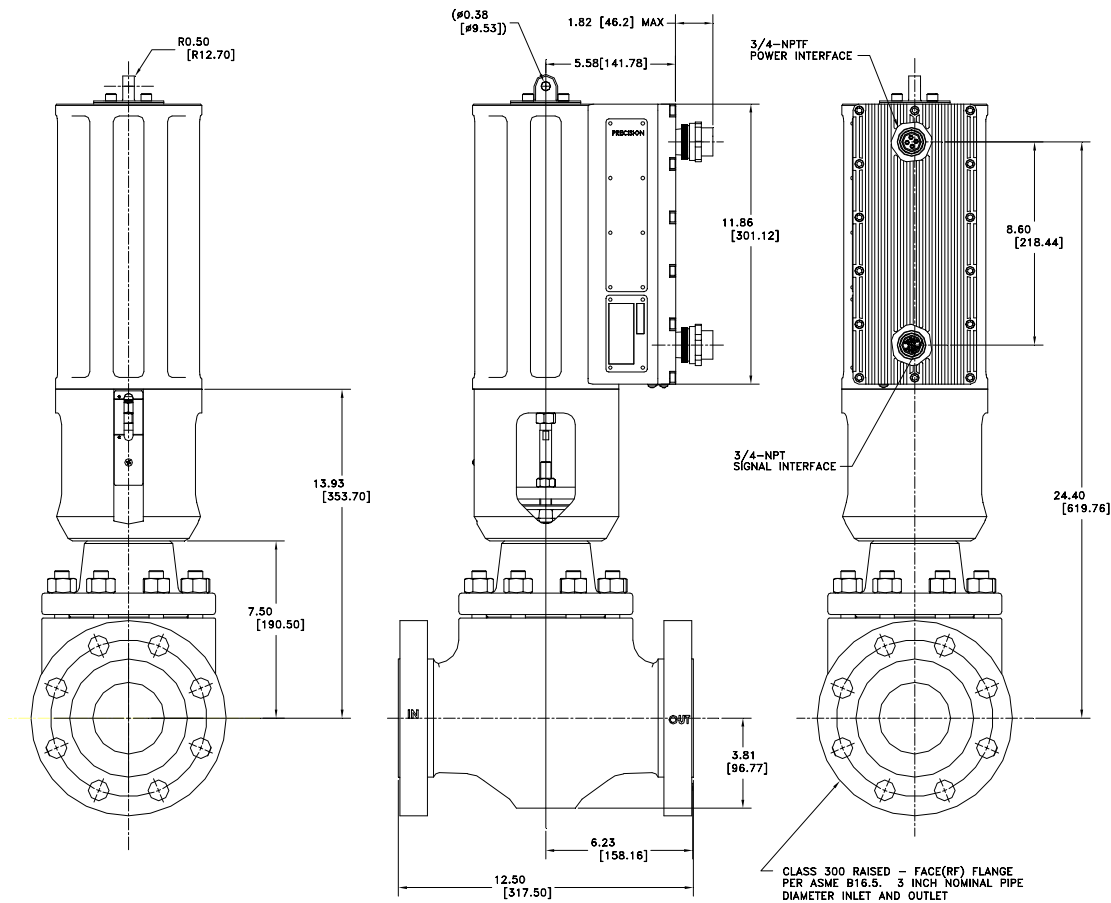
Meggitt Control Systems

Our product competencies and services:
Aerospace valves | Thermal management solutions | Electromechanical products | Ducting | Ground fuelling products | Industrial controls
Aftermarket services | Safety systems

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