

GS16 Gas Valve

with On-board Driver

Applications

The Woodward GS16 gas valve is suitable for use on industrial gas turbine engines with maximum power ratings between 10 and 50 MW. The assembly provides a reliable, cost-effective interface between electronic control systems and gas turbines used in electrical power generation, compressor, or mechanical drive applications. The valve assembly can be used for base turbines or in multiple valve configurations in Dry Low Emission turbines.

Description

The GS16 valve assembly combines a highly robust Woodward self-cleaning metering valve with a high-torque actuator to ensure extended operation in all types of gaseous fuel service. The valve assembly features an on-board electronic controller module for ease of system packaging and installation.

The GS16 is an electrically actuated fuel valve with an on-board electronic position controller. Highly accurate flow control is achieved by the use of a spherical fuel metering element with a precision machined fuel metering port. A seal shoe is loaded against the spherical valve element to allow accurate flow area control and the achievement of positive flow shut-off. The use of rare earth permanent magnets in an efficient electromagnetic circuit results in high actuation forces while minimizing package size. The closely integrated mechanical design eliminates backlash and provides virtually infinite valve positioning resolution.

The self-cleaning, shear-type metering action keeps the metering port free from performance-limiting deposits of gas condensates, contaminants, and system debris. The valve utilizes a single moving part with the fuel metering element, actuator rotor, and position feedback resolver mounted on a single solid-piece shaft. Accurate flow versus input signal characteristics are achieved on each valve version by precision forming of the valve metering port, the use of extended valve travels, and a high-precision resolver for valve position feedback. The GS valves can achieve flow turn-down ratios in excess of 100 to 1 and a positive flow shut-off rating exceeding the requirements of ANSI B16.104 Class III.



- Highly accurate fuel flow metering
- Single moving part for reliable performance
- All-electric actuation
- On-board driver
- Fast dynamic response
- Robust self-cleaning valve
- Gas flow shut-off in conformance with ANSI B16.104 Class III
- Digital and/or 4–20 mA analog signal interfaces
- Discrete fault output and independent shutdown
- Certified for use in Hazardous Locations

Woodward Gs16 Manual

RS Peters



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Geothermal Energy Update ,1979-12 *The Cumulative Book Index* ,1916 *Cumulated Index to the Books* ,1916
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