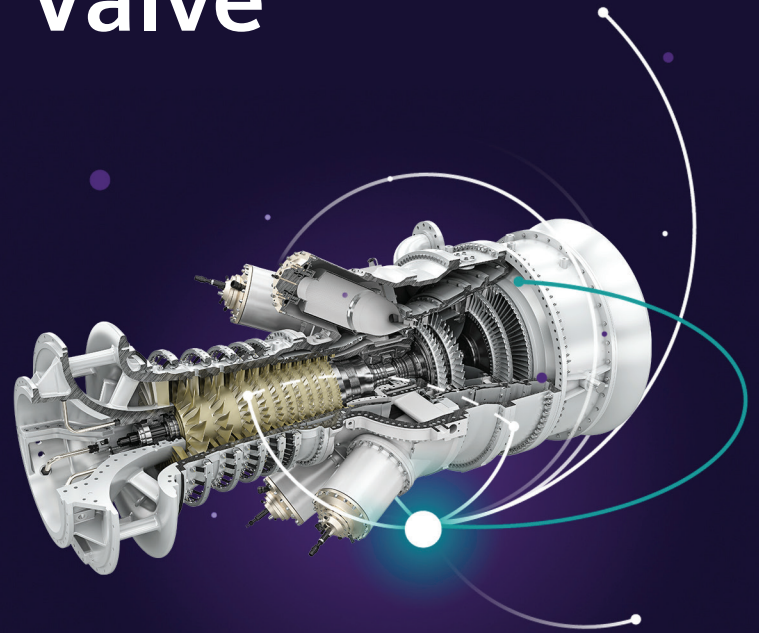


Integrated Fuel Valve (IFV) upgrade



[siemens-energy.com](https://www.siemens-energy.com)

Background

The IFV provides reliable, accurate and repeatable gas fuel control in a single assembly with improved turndown to enable better running at low loads. A self-contained, factory-calibrated unit, it simplifies the gas fuel train with no need for the now obsolete, double diaphragm regulator (see POB-000-049). This can translate to a lower required gas fuel supply pressure.

Fleet applicability

IFV can be retrofitted to any engine in the Siemens Energy Industrial Turbomachinery Ltd. (SEITL) fleet; the SGT-100, SGT-300, and SGT-400, as well as in the legacy fleet models TB and SGT-200. It replaces all previous non-IFV, gas fuel control systems with the latest technology.

Product design

- The valve profile is accurate and repeatable resulting in improved turndown.
- The valve uses dual upstream and downstream pressure transmitters with temperature compensation to calculate the required fuel and therefore the valve position.
- Valve positioning is via a digital encoder which is repeatable and accurate to 0.02°.
- Continuous, iterative communication with the control system refines the valve position and self-compensates for system fluctuations.
- Improved diagnostics. The valve operates in a 'calm' manner, reporting non-critical faults to the control system only tripping when failures are critical.
- An integrated system allows for factory calibration and testing. Requires less frequent maintenance and calibration.
- Up to 3 IFVs may be required depending on the number of gas streams i.e. whether the engine is non-DLE, DLE or EDLE.

Benefits



Latest technology



Future proof against obsolescence



Improved control and response



Optimizes turbine performance



Improved reliability and availability

For inquiries or additional information, please reach out to your Siemens Energy contract or sales representatives, who will be happy to assist you.



Figure 1: Integrated Fuel Valve

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