



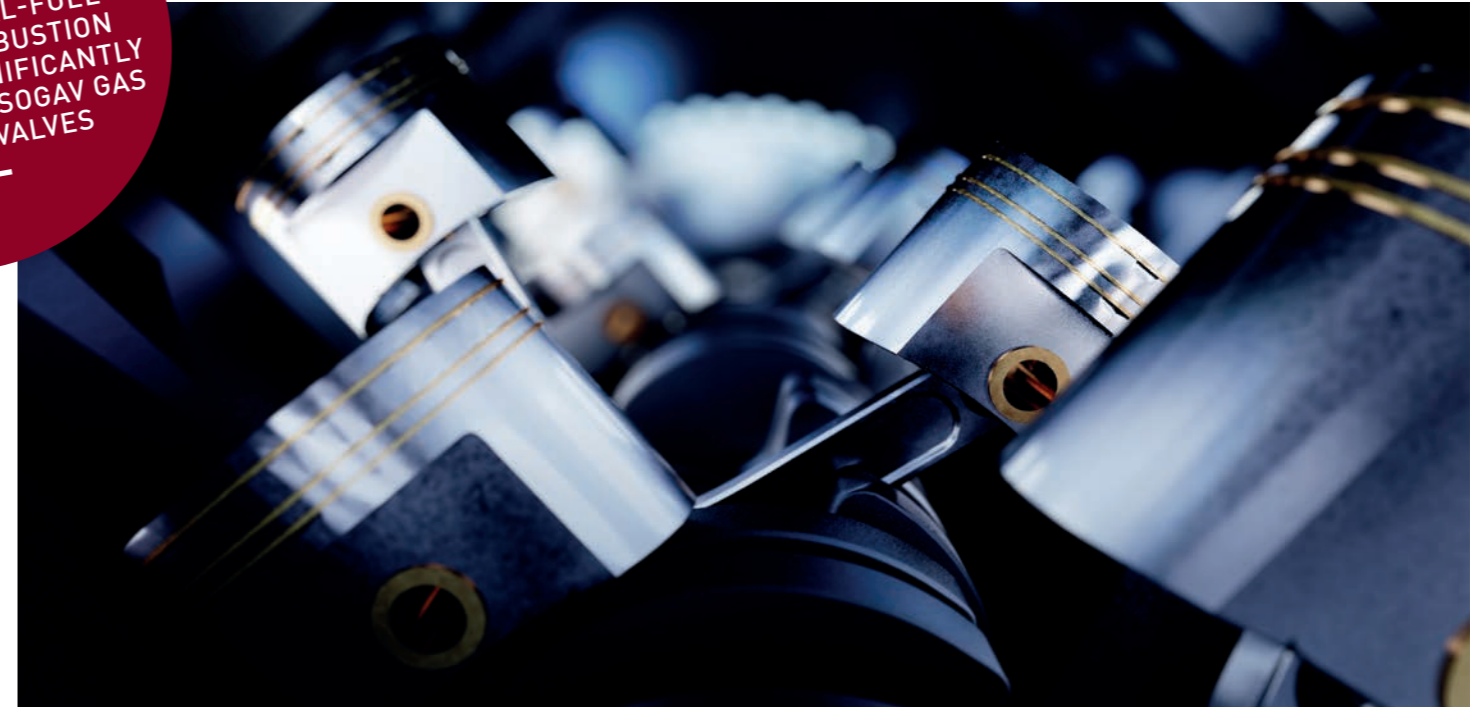
# SOGAV™

GAS ADMISSION SOLUTIONS FOR  
IMPROVED ENGINE PERFORMANCE

# SOGAV™

The SOGAV valves are a family of electrically-actuated, high-response gas admission valves for in-manifold (port) fuel admission. They are used on four-cycle, turbocharged, natural gas or dual-fuel engines. One SOGAV valve is required for each cylinder. The SOGAV valve is designed as the valve portion of an overall gaseous fuel admission system delivering precise gas mass flow metering per cylinder. This enables gas engines and dual-fuel engines to operate lean burn, with increased efficiency and reduced emissions.

THE PERFORMANCE AND CHARACTERISTICS OF A GAS AND DUAL-FUEL ENGINE ARE SIGNIFICANTLY INFLUENCED BY SOGAV GAS ADMISSION VALVES



## KEY PRODUCT VARIANTS



### SOGAV105 OFFSET

The SOGAV105 OFFSET gas admission valve is the backbone of the large installed based and is commonly used in stationary power generation applications. The SOGAV105 OFFSET is available with and without a pressure-balanced valve plate package. The top load valve plate package can be replaced very easily, which optimizes maintenance and overhaul procedures.

- Excellent shot-to-shot performance
- Long life
- Cost-effective
- Easy to use for retrofit projects
- Available in 24V and 110V variants



### SOGAV65 INTEGRATED

The SOGAV65 is designed to meet marine double wall gas pipe systems and can be integrated for optimal gas admission and serviceability. The SOGAV65 is predominantly used and selected for marine gas and dual-fuel engines. The integrated leak detection enables optimized designs around the engine inlet runner and double-wall gas.

- Optional inlet filter
- Integrated leak detection
- Easy access and replacement of valve plate package
- Available with IGF-code zone "0" listing for marine applications
- Excellent shot-to-shot performance
- Long life
- Cost-effective



### SOGAV105 INSERT

The SOGAV105 INSERT is predominantly used and selected for marine gas and dual-fuel engines. The integrated leak detection enables optimized designs around the engine inlet runner and double-wall gas. A valve plate package with Z=145 is compatible with the SOGAV105 INSERT. This ensures a larger gas mass flow metering without increasing the physical size of the component. This makes it ideal for power density upgrades.

- Integrated leak detection
- Easy access and replacement of valve plate package
- Available with IGF-code zone "0" listing for marine applications
- Excellent shot-to-shot performance
- Long life
- Cost-effective



### SOGAV250

The SOGAV250 gas admission valve is the backbone of the large installed based and is commonly used in very large bore stationary power generation and marine engine applications. The SOGAV250 is available with and without pressure balanced valve plate package. For new marine application projects the SOGAV250 is succeeded with a newly developed SOGAV235. The SOGAV235 will provide the same benefits as the SOGAV65 and SOGAV 105 INSERT, including the IGF-code zone "0" compliance.

- Excellent shot-to-shot performance
- Long life
- Cost-effective

# VALUE PROPOSITION

SOGAV valves provide reliable and precise control of gas fuel admission in multipoint gas and dual-fuel engines. Woodward SOGAV valves are used in power generation, marine, rail and mining vehicle applications. Available in gas mass flow metering capacities ranging from 70kW/cyl to 1500kW/cyl.

FOR MORE  
INFORMATION  
PLEASE VISIT  
[WWW.WOODWARD.COM](http://WWW.WOODWARD.COM)  
OR CONTACT A  
REPRESENTATIVE

## KEY PRODUCT VARIANTS

**SOGAV43 & 105  
OFFSET**



for stationary land-based power generation

**SOGAV65**



for marine double-wall gas pipe systems and  
integrated for optimal gas admission and serviceability

**SOGAV105  
INSERT**



for marine double-wall gas pipe systems and  
integrated for optimal gas admission and serviceability

**SOGAV250**



for stationary and marine applications with  
very large bore gas and dual-fuel engines

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**Woodward Inc.**

Lincoln Campus Corporate Headquarters,  
1081 Woodward Way, Fort Collins Colorado 80524, USA

3800 North Wilson, Loveland CO 80538, USA  
Tel: +1 (970) 663 3900 Fax: +1 (970) 962 7050  
[www.woodward.com](http://www.woodward.com)