



Installation Procedure Supplement

Manual 35246 (Revision A, 3/2025) SOGAV 105 IGF, SOGAV 145 IGF



See manual 26498 for complete installation, operation, maintenance, and certification information. Publications can be found on our website at:

[Woodward Industrial Support: Get Help](#)

Important Definitions



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

- **DANGER**—Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
- **WARNING**—Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION**—Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE**—Indicates a hazard that could result in property damage only (including damage to the control).
- **IMPORTANT**—Designates an operating tip or maintenance suggestion.



WARNING

The engine, turbine, or other type of prime mover should be equipped with an overspeed shutdown device to protect against runaway or damage to the prime mover with possible personal injury, loss of life, or property damage.

The overspeed shutdown device must be totally independent of the prime mover control system. An overtemperature or overpressure shutdown device may also be needed for safety, as appropriate.



Read this entire manual and all other publications pertaining to the work to be performed before installing, operating, or servicing this equipment. Practice all plant and safety instructions and precautions. Failure to follow instructions can cause personal injury and/or property damage.



Any unauthorized modifications to or use of this equipment outside its specified mechanical, electrical, or other operating limits may cause personal injury and/or property damage, including damage to the equipment. Any such unauthorized modifications: (i) constitute "misuse" and/or "negligence" within the meaning of the product warranty thereby excluding warranty coverage for any resulting damage, and (ii) invalidate product certifications or listings.

NOTICE

To prevent damage to a control system that uses an alternator or battery-charging device, make sure the charging device is turned off before disconnecting the battery from the system.

NOTICE

To prevent damage to electronic components caused by improper handling, read and observe the precautions in Woodward manual **82715**, *Guide for Handling and Protection of Electronic Controls, Printed Circuit Boards, and Modules*.

Regulatory Compliance and Declarations

European Compliance for CE Marking:

ATEX Directive: Directive 2014/34/EU on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres.
II 1 G, Ex db+eb ma h IIA T4 Ga, EPS 22 ATEX 1 091 X

Other European Compliance:

Compliance with the following European Directives or standards does not qualify this product for application of the CE Marking:

Machinery Directive: Compliant as partly completed machinery with Directive 2006/42/EC of the European Parliament and the Council of 17 May 2006 on machinery.

Pressure Equipment Directive: Exempt per Article 1.2(j) of 2014/68/EU where pressure is not a significant design factor.

EMC Directive: Not applicable to this product. The device is excluded from the scope of Directive 2014/30/EU under Article 2.2(d).

RoHS Directive: Restriction of Hazardous Substances 2011/65/EU:
This product is intended to be sold and used only as equipment which is specifically designed and is to be installed as part of another type of equipment that is excluded or does not fall within the scope of this Directive, which can fulfil its function only if it is part of that equipment, and which can be replaced only by the same specifically designed equipment and therefore fulfills the requirements stated in Art.2.4(c), and as such is excluded from the scope of the Directive.

Other International Compliance:

IECEX: Certified for use in explosive atmospheres per Certificate:
IECEX EPS 22.0012X, Ex db+eb ma h IIA T4 Ga

Special Conditions for Safe Use

Ambient temperature range: -20°C to +105°C

Supply ratings must be in compliance with manufacturer's specification.


The housing shall be protected from high impact energy danger above 7J.

The valve housing and solenoid are made of Aluminum alloy which exceeds the values of IEC 60079-0 clause 8.3 for EPL Ga applications. Avoid impact or friction with the Aluminum parts to prevent any possible source of ignition.

Compliance with the Machinery Directive 2006/42/EC noise measurement and mitigation requirements is the responsibility of the manufacturer of the machinery into which this product is incorporated.

SOGAV 105 IGF and SOGAV 145 IGF solenoids are labeled with maximum rated values of input current and input power. These input ratings must not be exceeded during solenoid operation to prevent exceeding a prescribed coil temperature rise at the maximum rated ambient operating temperature. These solenoids must be driven by specially designed current-limiting drivers providing periodic, two-tier current waveforms.

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| EU DECLARATION OF CONFORMITY |
|-------------------------------------|

EU DoC No.: 00667-EU-02-01
Manufacturer's Name: WOODWARD INC.
Manufacturer's Contact Address: 1041 Woodward Way
 Fort Collins, CO 80524 USA
Model Name(s)/Number(s): SOGAV 105 IGF, SOGAV 145 IGF
The object of the declaration described above is in conformity with the following relevant Union harmonization legislation: Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres
Markings in addition to CE marking:  II 1 G, Ex db+eb ma h IIA T4 Ga
Applicable Standards:
ATEX: EN IEC 60079-0:2018 – Explosive atmospheres - Part 0: Equipment - General requirements
 EN 60079-1:2014 – Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures 'd'
 EN IEC 60079-7:2015/A1:2018 – Explosive atmospheres - Part 7: Equipment protection by increased safety 'e'
 EN 60079-18:2015/A1:2017 – Explosive atmospheres - Part 18: Equipment protection by encapsulation 'm'
 EN 60079-26:2015 – Explosive atmospheres - Part 26: Equipment with Equipment Protection Level (EPL) Ga
 EN ISO 80079-36:2016 – Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic method and requirements (ISO 80079-36:2016)
 EN ISO 80079-37:2016 – Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non-electrical type of protection constructional safety "c", control of ignition sources "b", liquid immersion "k" (ISO 80079-37:2016)
Third Party Certification: EPS 22 ATEX 1 091 X
 Bureau Veritas Consumer Products Services Germany GmbH (2004)
 Businesspark A96
 86842 Türkheim
 Germany
Conformity Assessment: ATEX Annex IV - Production Quality Assessment, 01 220 113542
 TÜV Rheinland Industrie Service GmbH (0035)
 Am Grauen Stein, D51105 Cologne

This declaration of conformity is issued under the sole responsibility of the manufacturer
 We, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s).

MANUFACTURER

Signature



Full Name

Annette Lynch

Position

Engineering Manager

Place

Woodward, Fort Collins, CO, USA

Date

20 December 2022

Contacting Woodward's Support Organization

For the name of your nearest Woodward Full-Service Distributor or service facility, please consult our worldwide directory published at www.woodward.com/directory.

You can also contact the Woodward Customer Service Department at one of the following Woodward facilities to obtain the address and phone number of the nearest facility at which you can obtain information and service.

Products Used in Electrical Power Systems

| <u>Facility</u> | <u>Phone Number</u> |
|-----------------|---------------------|
| Brazil | +55 (19) 3708 4800 |
| China | +86 (512) 8818 5515 |
| Germany | +49 (711) 78954-510 |
| India | +91 (124) 4399500 |
| Japan | +81 (43) 213-2191 |
| Korea | +82 (51) 636-7080 |
| Poland | +48 (12) 295 13 00 |
| United States | +1 (970) 482-5811 |

Products Used in Engine Systems

| <u>Facility</u> | <u>Phone Number</u> |
|-----------------|---------------------|
| Brazil | +55 (19) 3708 4800 |
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| Germany | +49 (711) 78954-510 |
| India | +91 (124) 4399500 |
| Japan | +81 (43) 213-2191 |
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| The Netherlands | +31 (23) 5661111 |
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Products Used in Industrial Turbomachinery Systems

| <u>Facility</u> | <u>Phone Number</u> |
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