

**Honeywell**

# **GAS VALVE UNITS**

For Marine Applications



The marine gas business is demanding. Marine industry needs a proven solution to control, regulate and measure gas as a marine fuel. Stringent environmental regulations on emission control and an expanding infrastructure are driving a market shift towards gas as an alternative to marine diesel oil (MDO) and heavy fuel oil (HFO).

## COMPACT DESIGN. ROBUST PERFORMANCE. CUSTOMIZED & SCALABLE.

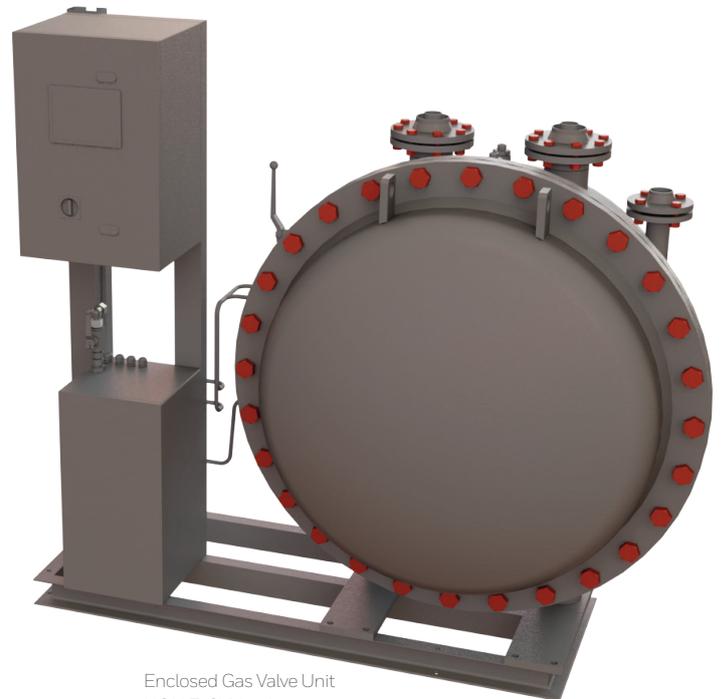
With decades of experience in natural gas measurement and control, Honeywell has developed an advanced gas valve unit (GVU) with axial, high-capacity safety valves, optionally housed in a gas-tight enclosure (E-GVU).

This compact plug & play solution, adaptive to any marine engine control system, enables full utilization of the vessel engine room with significant space and cost savings.

Our strong engineering know-how and experienced supply partners allow for customized, tailor-made products.



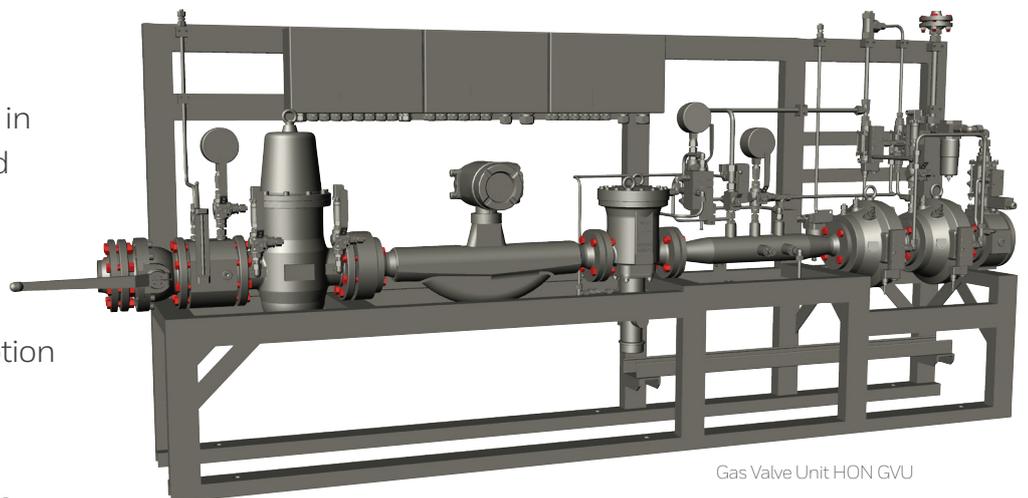
Enclosed Gas Valve Unit  
HON E-GVU



Enclosed Gas Valve Unit  
HON E-GVU with automation

## RELY ON HONEYWELL

- 150+ years of experience in the natural gas industry
- Worldwide solution leader in control, measurement and analysis technology
- Solutions for natural gas transportation, storage, distribution and consumption
- Local support with global expertise
- Single source provider with a wide portfolio



Gas Valve Unit HON GVU

# RELIABILITY MATTERS

Honeywell is recognized as a reliable partner serving the marine gas industry from the very beginning. The Gas Valve Unit, available as open type or with enclosure, meets the challenges of today's marine gas applications.

This compact, robust and easy-to-use unit is yet another innovative development, satisfying the requirements of marine operations worldwide.

## Improved Ship Safety

HON GVU & E-GVU improve the safety of gas powered vessels in alignment with IGF / IGC codes for marine engine installations. The main functions of the device are to regulate gas-feeding pressure to the engine and to ensure a fast and reliable shutdown of the gas supply.

## Precise Pressure Control

For each gas-fueled engine on a marine vessel, the gas supply pressure has to be adjusted within a narrow, load-dependent pressure range. The axial design of the GVU valves leads to a lower pressure drop compared to previous type GVUs. This improves the response time of the system during transient conditions such as engine load fluctuations.

## Enclosed Installation

Honeywell's innovative enclosure for GVUs enables shipyards to design a gas system with significantly reduced space requirements. It provides a gas-tight enclosure around process components, including valves, regulators, actuators and sensors. This solution allows the unit to be installed close to the engine, similar to other auxiliary equipment. No dedicated GVU room is necessary, reducing costs for both the yard and owner.

## Greater Confidence

The complete HON GVU & E-GVU system undergoes a factory acceptance test (FAT) before delivery, thereby providing the confidence of a high-quality and trouble-free commissioning.

## Key Features

### Compact Design

- With enclosure, no separate GVU room needed
- Effective use of engine room space
- Lower equipment and installation costs

### Robust & Reliable

- Permanently maintain high-accuracy class
- Long maintenance intervals
- Center of gravity closer to pipe axis

### Plug & Play

- Easy to operate
- Ready for commissioning with factory acceptance test

### Customized & Scalable

- Flexible installation locations
- Sizing according to different loads
- Customized according to project requirements
- Highest 1<sup>st</sup> party content in the market

## TECHNICAL SPECIFICATIONS\*

Model Type	GVU & E-GVU
Gas valve unit sizes	From DN 25 up to DN 150
Enclosed gas valve unit sizes	DN 50 and DN 100
Flowmeter	with/without
Hazardous area	Zone 1 (HON GVU), Non-Ex (HON E-GVU)
Ambient conditions	0-60° C
Fluid conditions	0-60° C
Power supply	24V DC
Valve type	high-capacity axial valves, fail-safe
Gas piping design	MOP 10 bar (g) / 16 bar (g)
Testing pressure	15 bar (g) / 24 bar (g)
Reverse flow protection	up to 10 bar (g)
Fluid	natural gas acc. to MSC.286 (85)
Max. flow	dependent upon configuration
Connections	RF type flanges
Min. compressed air pressure	7 bar (g)
Class approval	Approval of all major Marine Classification Societies
Automation	GVU control system available on demand

\*Technical data is subject to change without notice.

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