

Honeywell
THE POWER OF **CONNECTED**

GAS VALVE UNITS

For Marine Applications.

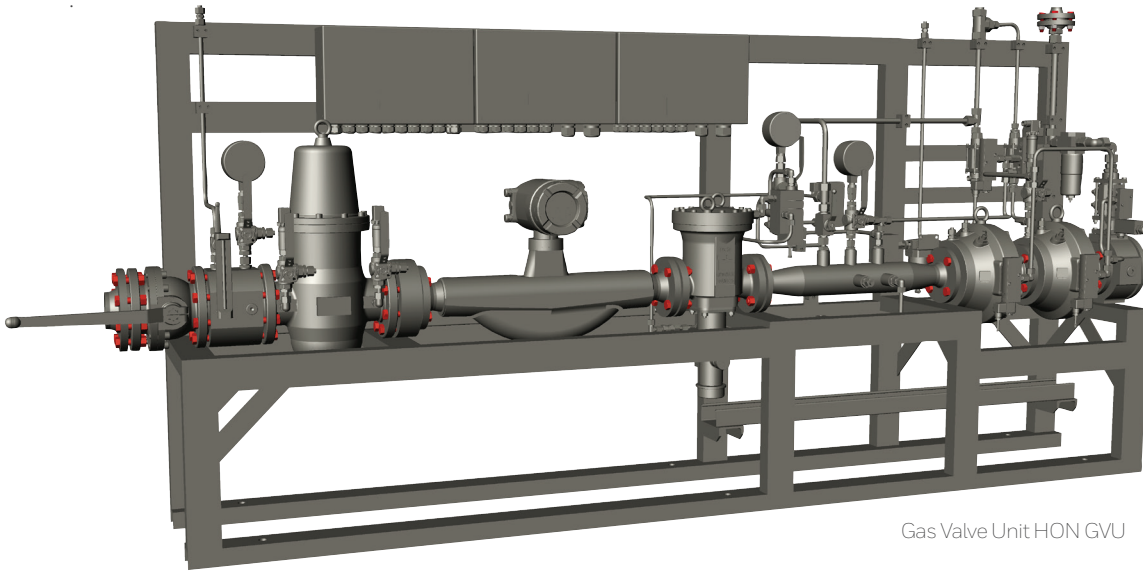


The marine gas business is demanding. Service organizations need a proven solution to control, regulate and measure liquefied natural gas (LNG) for vessel propulsion. Stringent environmental regulations on emission control and an expanding LNG- infrastructure are driving a market shift towards gas as an alternative to marine diesel oil (MDO) and heavy fuel oil (HFO).

Compact Design. Robust Performance.

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's engine room with significant space and cost savings.



Gas Valve Unit HON GVU

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



Enclosed Gas Valve Unit
HON E-GVU

Reliability Matters

Honeywell is recognized as a reliable partner serving the marine gas industry from the very beginning. The Gas Valve Unit, on demand with enclosure, meets the challenges of today's marine LNG 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 LNG-powered vessels in alignment with IGF codes for natural gas-fueled 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 leads to a much lower pressure drop than the 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

Scalable

- Flexible installation locations
- Sizing according to different loads

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)
Testing pressure	15 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

*Technical data is subject to change without notice.

For more information

To learn more about Honeywell's Advanced Gas Solutions, visit www.honeywellmarine.com and www.honeywellprocess.com or contact your Honeywell account manager.

Honeywell Process Solutions

Honeywell Gas Technologies GmbH
 Osterholzstrasse 45
 34123 Kassel, Germany
 Tel: +49 (0)561 5007-0
 Fax: +49 (0)561 5007-107
www.honeywellprocess.com