

LNG & CNG Marine Application Gas Valve Unit (GVU-NT)

Edition: 08.18

Subject to change without notice

APPLICATION AREA

- > Gas fueling system for marine engines

ADVANTAGE

- > Gas tight enclosure – no separate GUV-room is required
- > Installed in engine room, next to engine
- > Horizontal or vertical design - fitting to individual space requirement
- > Modular System with built on terminal boxes and pneumatic control box
- > Entire GUV Factory Acceptance Tested ensures smooth and quick installation on board
- > Highest safety level through type approved KÜHME Valve Technology



safe and reliable

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Gas Valve Unit (GVU-NT)



DN 50 / 80 / 100 / 150 PN 16

FUNCTIONS

- > Gas leakage test before engine start
- > Regulation of the gas feeding pressure to the engine
- > Fast and reliable shut down of gas supply by a set of "double block and bleed" valves
- > Purging of the system with Nitrogen

TECHNICAL DATA

- > Enclosure approved up to 10 bar g explosion pressure
- > Gas filter 5 µm incl. differential pressure indicator
- > Easy maintenance access to all components
- > Corrosion protection up to C5M

CERTIFICATES

- > Material Test Certificates
- > Welding Documentation
- > Type-Test Certificates
- > Test- and Inspection Certificates

OPERATING DATA

Media:	Natural Gas Methane Number ≥ 70
Inlet pressure:	6 – 16 bar
Outlet pressure:	adjusted to engine load
Temperature:	0 - 60 °C
Control medium:	Instrument air 6 – 8 bar
Air quality:	acc. to DIN ISO 8573-1
Inert gas:	Nitrogen max. 16 bar
Control voltage:	230 V AC, 50 Hz / 60 Hz 24 V DC

OPTION

- > see separate Page (5)

DESIGN ACC. TO

- > Rules of Classification Societies for gas fueled ships
- > IGF-Code (International Code of Safety for Ship Using Gases or Other Low-flashpoint Fuels)
- > European pressure vessel directive 2014/68/EU
- > Code AD 2000 / EN 13480
- > ATEX Guideline 2014/34/EU
- > DVGW Standards

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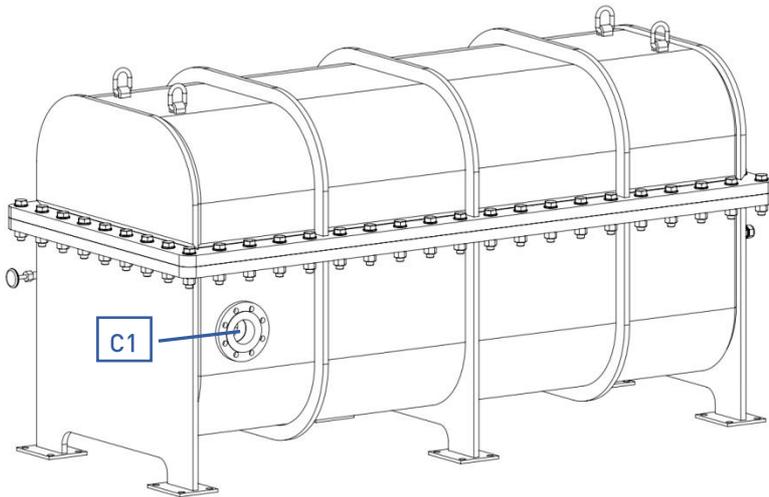
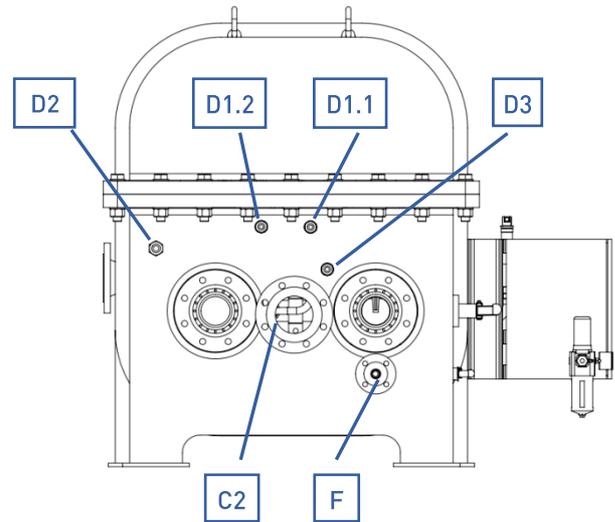
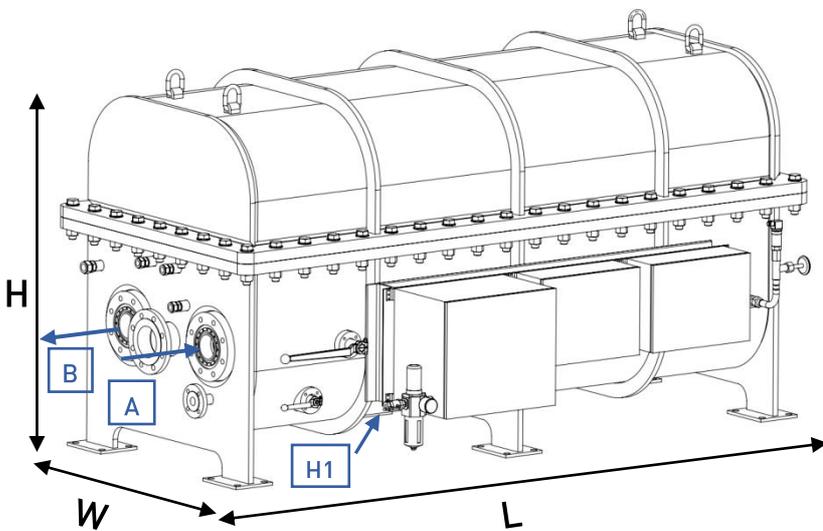
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DIMENSIONS



DN	L in mm	W in mm	H in mm	Weight in kg
50	2200	1450	1170	2100
80	2350	1450	1270	2250
100	2650	1550	1270	2600
150	3150	1850	1450	3500

Pos.	Medium	
A	Natural Gas Interface Flange	Inlet
B	Natural Gas Interface Flange	Outlet
C1	Ventilation Air Flange EN 1092-1	Inlet
C2	Ventilation Air Flange EN 1092-1	Outlet
D1.1	Gas Venting EN ISO 8434-1	Outlet
D1.2	Gas Venting EN ISO 8434-1	Outlet
D2	Gas Venting EN ISO 8434-1	Outlet
D3	Gas Venting EN ISO 8434-1	Outlet
F	Nitrogen Flange EN 1092-1	Inlet
H1	Instrument Air Thread G1/2"	Inlet

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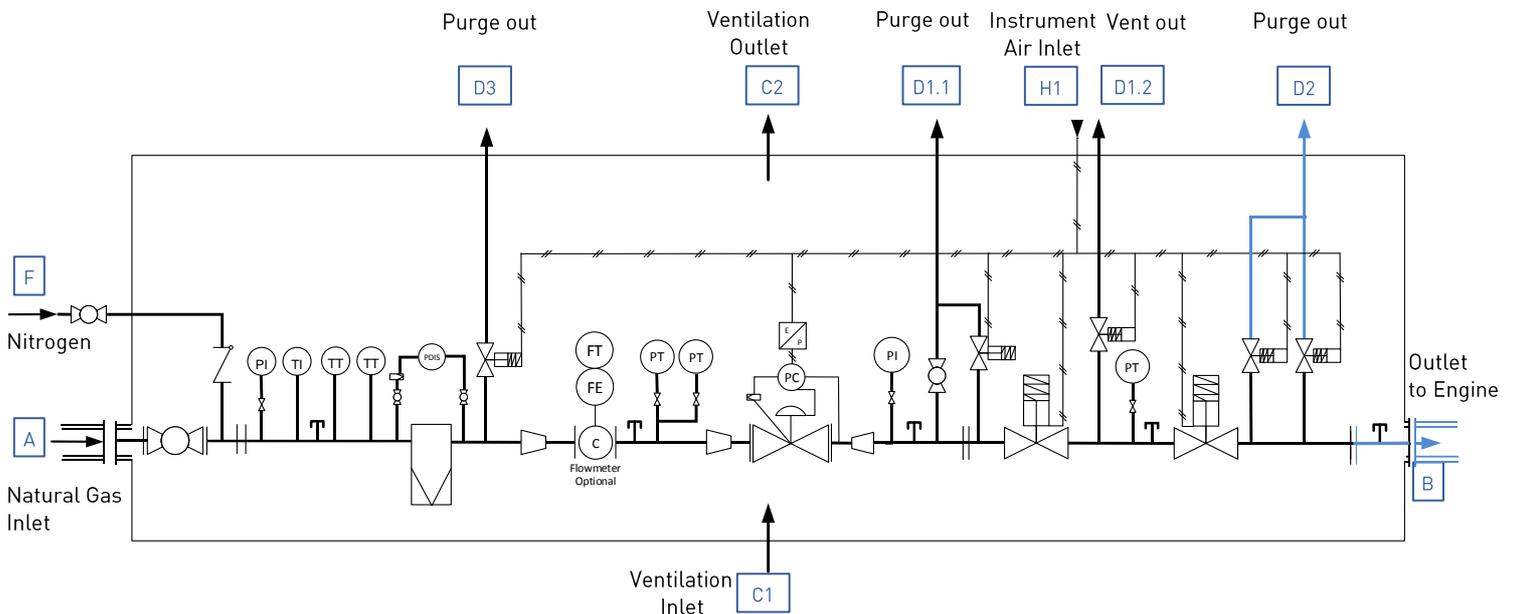


DN 50 PN 16

DN 80 PN 16

DN 100 PN 16

DN 150 PN 16



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OPTIONS*

No	Description
Option 1	Flowmeter (Coriolis)
Option 2	Redundant Pressure Transmitter – Natural Gas Line
Option 3	Redundant Pressure Transmitter – Instrument Air Line
Option 4	Redundant Venting Valve arrangement downstream
Option 5	Automatic Venting Valve upstream Pressure Regulator
Option 6	Automatic Venting Valve downstream Pressure Regulator
Option 7	Double Block & Bleed Unit for Inert Gas Line
Option 8	Safety Shut-Off Valve at Pressure Regulator
Option 9	Hydraulic Device for opening of enclosure

* Other Options are available on request.