



Gas Valve Unit Unum MkI

The Gas Valve Unit (GVU) Unum MkI is a single line gas valve unit designed to be connected through piping from the Low-flashpoint Fuel Supply system (LFSS) to fuel consumers such as internal combustion engines.

The GVU is controlled by the engine control system. Its main functionality is to supply the low-pressure 2-stroke gas admission engine. The GVU will stop gas supply to the engine in case of normal or emergency shutdown, and bleed through the vent header. Redundant blow-off valves release the gas

pressure when entering blow-off state on the engine side of the GVU.

With its special design where welded pipes are replaced by the innovative design of the FGC (FuelTech GVU Component) – a component connecting valves, transmitters and other parts for easy maintenance and safe operations – the GVU can be configured in different ways and with many possibilities for placing transmitters.

Description	GVU Unum MkI, 2½"
Media Dimensioning	
GVU Size	Main Line: 2½" (DN65) Blow-off-line: 2½": (DN65) Bleed: ½" (DN15) Purge: Ø10 (Manual)
Material in Contact with Media	Stainless steel Nodular Cast Iron (Filter)
Media for Engine	Methane
Media for Purge	Nitrogen
Nominal Pressure [PN]	14.4 bar
Design Pressure [PS]	16 bar
Design Flow (Without Filter and Flowmeter)	Up to 3.200 kg/h @ 14.4 bar, Δ 0.2 bar
Media Design Temperature	0 ≤ T ≤ 55°C
Physical Dimensions	
Dimensions without Flowmeter (WxHxL)	1050 x 1.518 x 2.924 mm
Weight without Flowmeter	400 kg
Dimensions with Flowmeter, DN50 (WxHxL)	TBD
Weight with Flowmeter	TBD
Media Filtration	
Gas Filter	Filter rating: 20 µm - B38
Environment	
Degree of Protection (IEC 60529)	IP65
Degree of Protection Electrical Cabinet (IEC 60529)	IP66
Shelter on Open Deck Option	IP66
Supply	
Power Supply	24 VDC +20/-30%
Pneumatic Air	6-10 bar, dry air (ISO 8573-1 Class 3, 3, 7)
Ex Classification	
GVU Components	Ex eb db mb ia IIB T6 Ga/Gb
Classification Societies	(Per Customer Request)
Service Life	25 years @ 24 hours