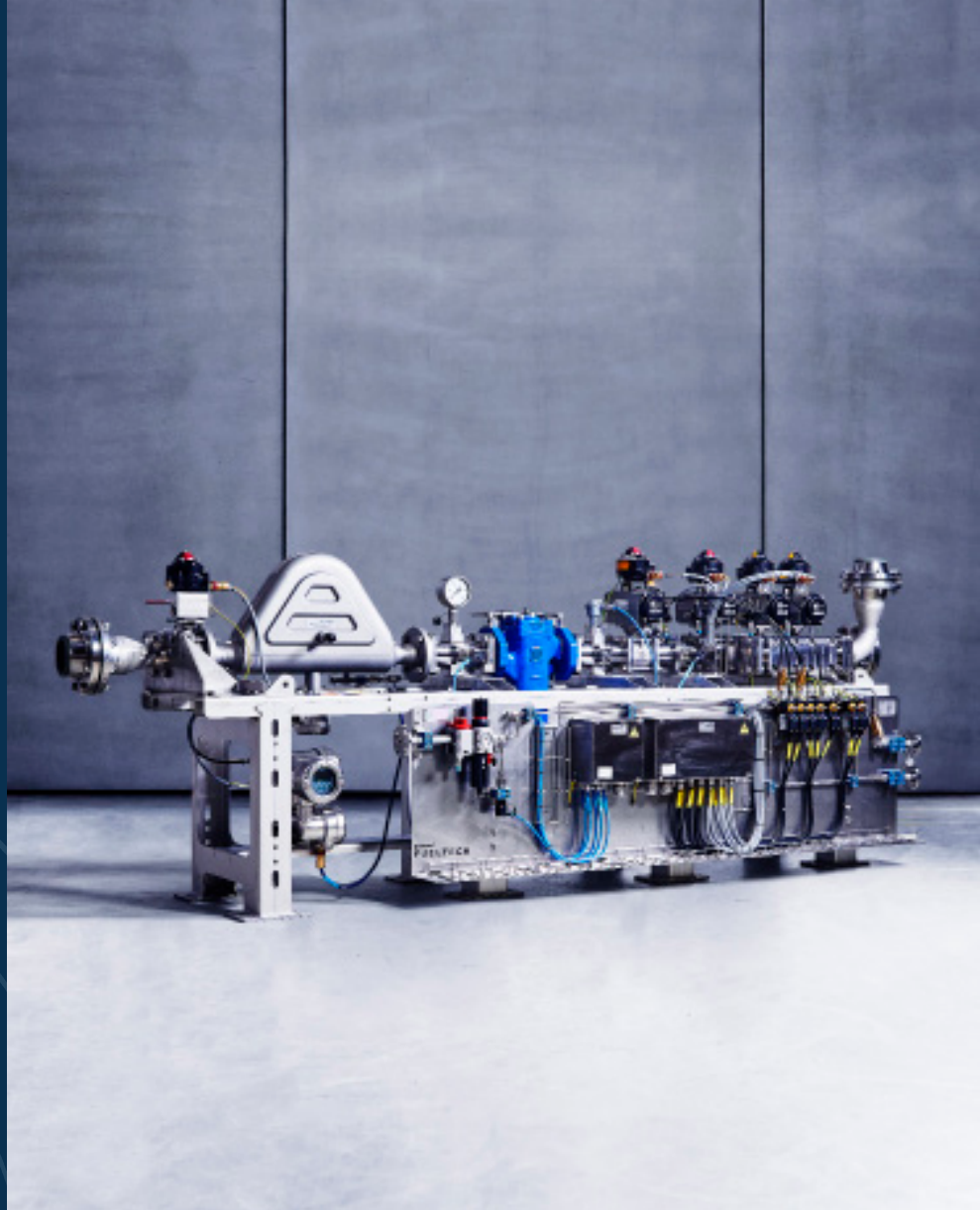


Gas Valve Unit Unum



Product information

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

The GVU is controlled by the engine control system. Its main functionality is to supply the low-pressure 2-stroke ME-GA (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. Furthermore, the unit is designed for high service availability and for easy maintenance.

Description		GVU Unum, 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	-25°C ≤ T ≤ 60°C	
Physical Dimensions		
Dimensions without Flowmeter (WxHxL)	1050 x 1518 x 2558 mm	
Weight without Flowmeter	Approx. 450 kg	
Dimensions with Flowmeter, DN50 (WxHxL)	1050 x 1518 x 3316 mm	
Weight with Flowmeter	Approx. 490 kg	
Media Filtration		
Gas Filter	The GVU is designed with gas filter mounted in the main line. Can be fitted with different filter elements depending on application.	
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 +30% / -12%	
Pneumatic Air	[5;9] barg	
Ex Classification		
GVU Components	Ex eb db mb ia IIB T6 Ga/Gb	
Service Life	25 years @ 24 hours	
Classification Societies	(Per Customer Request)	