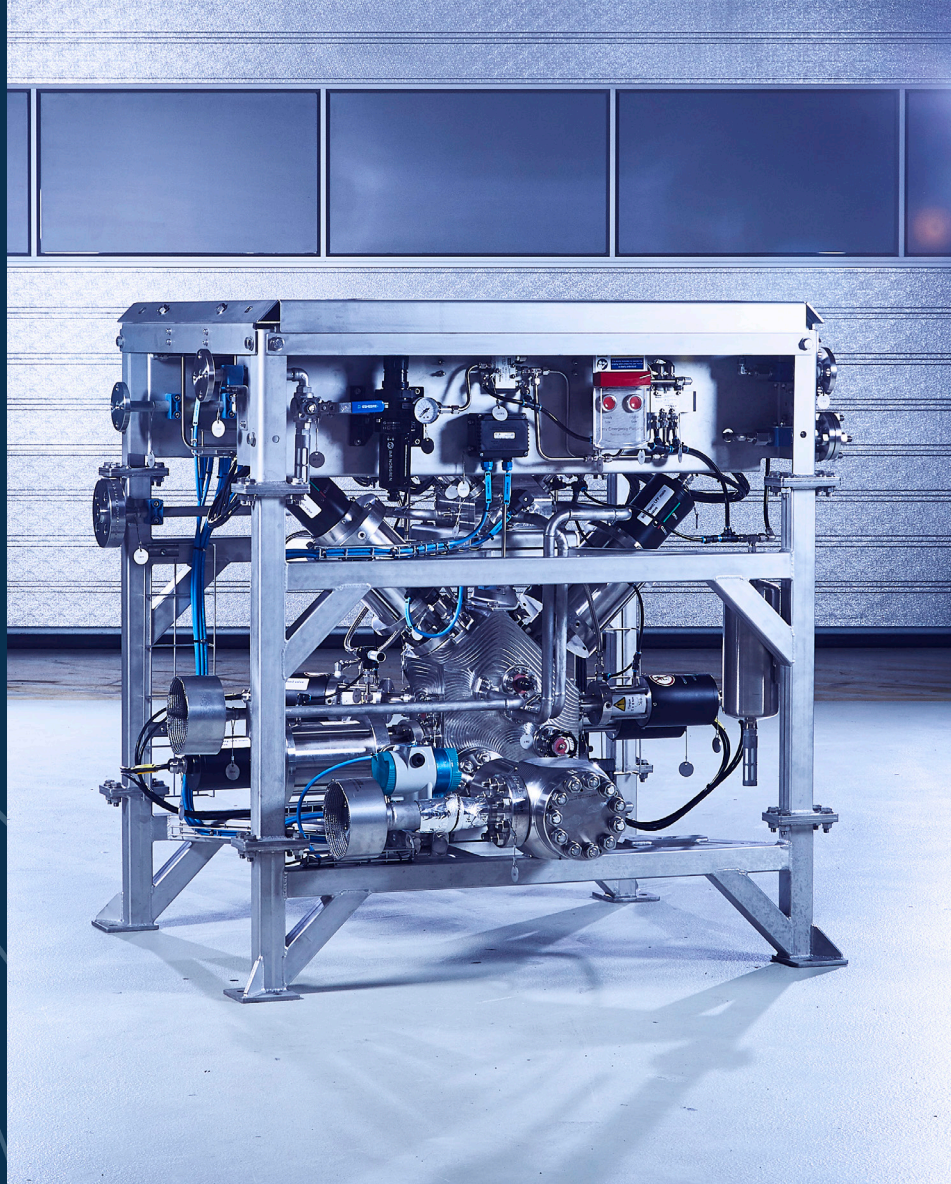


Gas Valve Train MkIII



Product information

The GVT MkIII Single Line is a Gas Valve Train designed to be connected through piping from the Fuel Gas Supply (FGS) system to gas consumers such as internal combustion engines (ME-GI).

The GVT MkIII is controlled by the engine control system. Its main functionality is to supply the 2-stroke ME-GI engine, both in the initial slow pressure build-up scenario, and in the normal supply condition.

The GVT MkIII will stop the gas supply to the engine in case of normal or emergency shutdown, and bleed through the vent header. The unit is used as main source for purging the pipes to the engine and FGS system.

Description	GVT MkIII, 1"	GVT MkIII, 1½"
Media Dimensioning		
GVT Size	Main Line: 1" (DN25) Purge and Bleed: ½" (DN15)	Main Line: 1½" (DN40) Purge and Bleed: ½" (DN15)
Material in Contact to Media	Stainless Steel	Stainless Steel
Media for the Engine	Methane or Ethane	Methane or Ethane
Media for Purge	Nitrogen	Nitrogen
Nominal Pressure [PN]	Up to 380 bar	Up to 380 bar
Design Pressure [PS]	420 bar	420 bar
Test Pressure [PT]	630 bar	630 bar
Design Flow (Without filter)	Methane: Up to 4.200 kg/h @300 bar, ΔP 1,5 bar Ethane: Up to 8.000 kg/h @380 bar, ΔP 2,5 bar	Methane: Up to 8.400 kg/h @300 bar, ΔP 1.5 bar Ethane: Up to 14.200 kg/h @380 bar, ΔP 2,5 bar
Media Design Temperature	-25°C to +60°C	-25°C to +60°C
Media Filtration		
Gas Filter (GVT Safety Filter)	Filter rating: 20 µm	Filter rating: 20 µm
Nitrogen (N2) Filter	Filter rating: 20 µm	Filter rating: 20 µm
Spool Piece Filter (If chosen)	Filter rating: 10 µm	Filter rating: 10 µm
Physical Dimensions		
Dimensions (WxHxL)	960 x 1250 x 1245 mm	960 x 1250 x 1245 mm
Weight (Depending on Selected Options)	Approx. 540 kg	Approx. 615 kg
Environment		
Degree of Protection GVT (IEC 60529)	IP65	IP65
Degree of Protection Electrical Cabinet (IEC 60529)	IP66	IP66
Supply		
Pneumatic Air	6-10 bar, dry air	6-10 bar, dry air
Power Supply	24 VDC -25/+30 %	24 VDC -25/+30 %
Ex Classification		
GVT Components	Ex eb db ia IIA T1 Ga/Gb	Ex eb db ia IIA T1 Ga/Gb
Classification & Service		
Classification Societies	(Per Customer Request)	(Per Customer Request)
Service Life	25 Years @ 24 Hours	25 Years @ 24 Hours