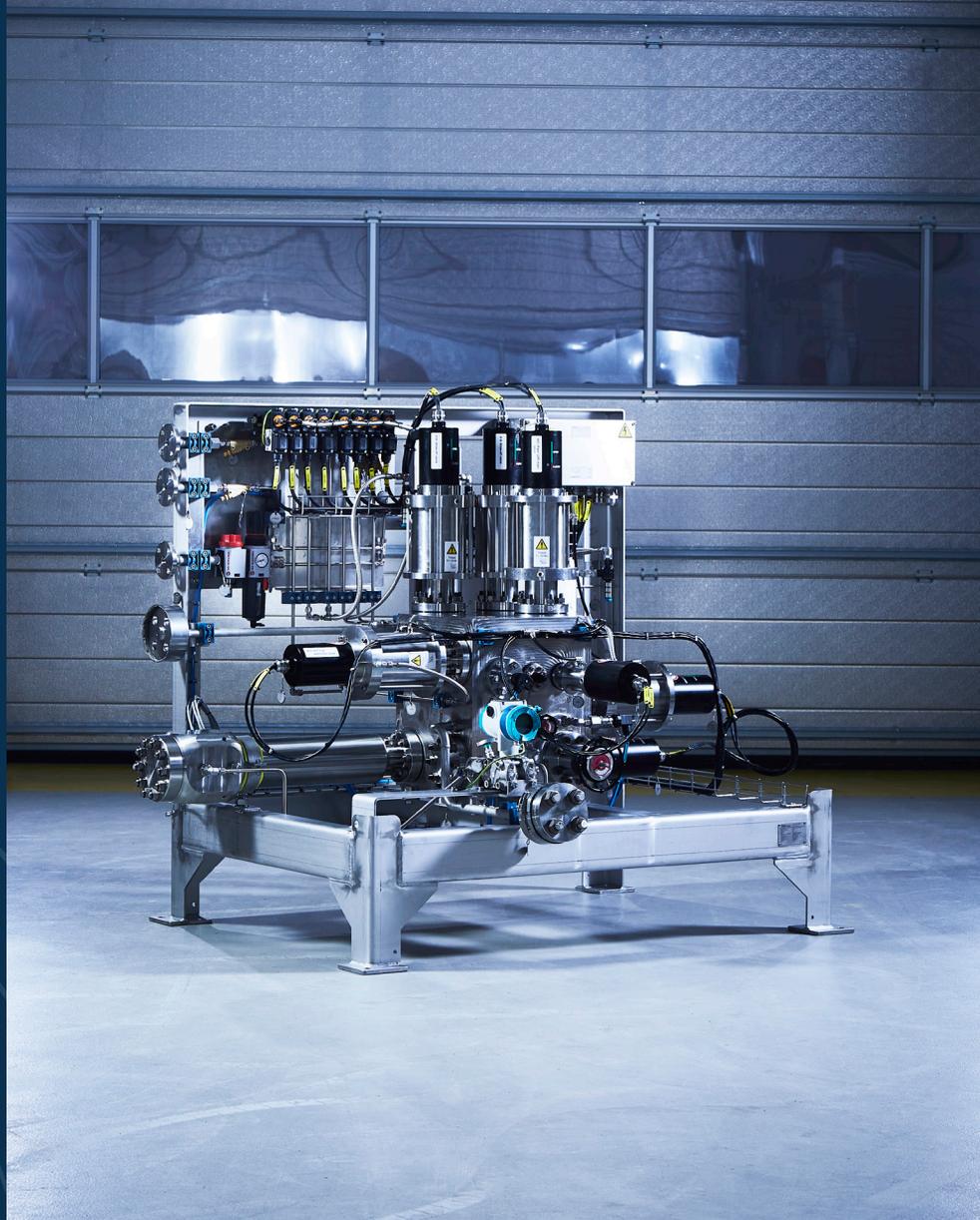


Gas Valve Train MkIV



Product information

The GVT Single Line MkIV 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. The GVT MkIV has a simple design and is easy to maintain. It carries the experience of its predecessor, while playing a role in the future engines that are meeting the future emissions regulations.

The GVT MkIV is controlled by the engine control system. Its main functionality is to supply the 2 stroke ME-GI MkII engine, both in the initial slow pressure build-up scenario, and in the normal supply condition. The GVT MkIV will stop the gas supply to the engine in case of normal or emergency shutdown, and bleed through the vent header.

The GVT MkIV will open its blow-off valves to support the ME-GI MkII in a blow-off condition. The gas from the pipes will then be released through the GVT MkIV. If purging from the GVT is necessary, a non-permanent connection has been fitted for manual purge.

Description	GVT MkIV, 1"	GVT MkIV, 1½"
Media Dimensioning		
GVT Size	Main Line and Blow-off Line: 1" (DN25) Bleed: ½" (DN15)	Main Line and Blow-off Line: 1½" (DN40) Bleed: ½" (DN15)
Material in Contact to Media	Stainless Steel	Stainless Steel
Media for the Engine	Methane	Methane
Media for Purge	Nitrogen (through service connection)	Nitrogen (through service connection)
Nominal Pressure [PN]	Up to 320 bar	Up to 320 bar
Design Pressure [PS]	350 bar	350 bar
Test Pressure [PT]	525 bar	525 bar
Design Flow (Without filter)	Methane: Up to 4.200 kg/h @300 bar, ΔP 2 bar	Methane: Up to 10.500 kg/h @300 bar, ΔP 2 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	N/A	N/A
Spool Piece Filter	Filter rating: 10 µm (if chosen)	Filter rating: 10 µm (if chosen)
Physical Dimensions		
Dimensions without options (WxHxL)	1097 x 1176 x 1168 mm	1207 x 1294 x 1468 mm
Weight (Depending on Selected Options)	Approx. 710 kg	Approx. 870 kg
Environment		
Degree of Protection GVT (IEC 60529)	IP65	IP65
Degree of Protection Electrical Cabinet (IEC 60529)	IP66	IP66
Supply		
Pneumatic Air	6-9 bar, dry air	6-9 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