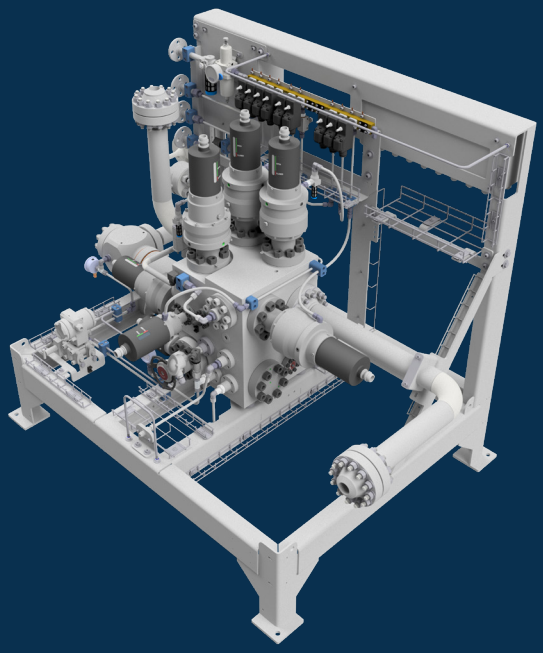
FUELTECH
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Gas Valve Train Mk V



Product information

The Gas Valve Train Mk V (GVT) is designed to connect the Fuel Gas Supply System (FGSS) to gas consumers such as internal combustion engines. Developed for the EVR 10.7 engine, the GVT Mk V is capable of operating on methane and is designed for higher operating pressures.

Controlled by the engine control system (ECS), the GVT Mk V supplies fuel gas to the engine under the required operating conditions. In case of normal or emergency shutdown, the gas supply is stopped and the remaining gas is released through the vent header. The GVT Mk V also supports blow-off and manual purging when required.

Building on the experience from the Mk IV, the GVT Mk V features optimized internal flow paths to minimize pressure losses, an enhanced valve design for increased durability, and improved access to critical components. These improvements support efficient gas flow, easier maintenance, reliable operation, and increased uptime.

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Data Sheet

Description	GVT Mk V, 1”	GVT Mk V, 1½”
Media Dimensioning		
GVT Size	Main line and blow-off line: 1”/DN25 Bleed line: ½”/DN15 Spool piece: 1½”	Main line and blow-off line: 1½”/DN40 Bleed line: ½”/DN15 Spool piece: 2½”
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 380 bar	Up to 380 bar
Design Pressure [PS]	420 bar	420 bar
Test Pressure [PT]	630 bar	630 bar
Design Flow (Without filter)	Approximately 4.200 kg/h @ ΔP 2 bar	Approximately 11.000 kg/h 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
Spool Piece Filter	Filter rating: 10 µm (if chosen)	Filter rating: 10 µm (if chosen)
Nitrogen filter	N/A	N/A
Physical Dimensions		
Dimensions without options (WxHxL)	1446 x 1366 x 1125 mm	1446 x 1366 x 1125 mm
Weight (Depending on Selected Options)	TBA	TBA
Environment		
Degree of Protection GVT (IEC 60529)	IP65	IP65
Degree of Protection Electrical Cabinet (IEC 60529)	IP55	IP55
Supply		
Pneumatic Air inlet	Ranging from 5-9 bar , ISO 8573-1, Class 3.3.3	Ranging from 5-9 bar, ISO 8573-1, Class 3.3.3
Power Supply	24 VDC -25% /+30%	24 VDC -25% /+30%
Ex Classification		
GVT Components	Ex ia Ex d Gb IIB Tx(tbd)	Ex ia Ex d Gb IIB Tx(tbd)
Classification & Service		
Classification Societies	(Per Customer Request)	(Per Customer Request)
Service Life	25 Years	25 Years