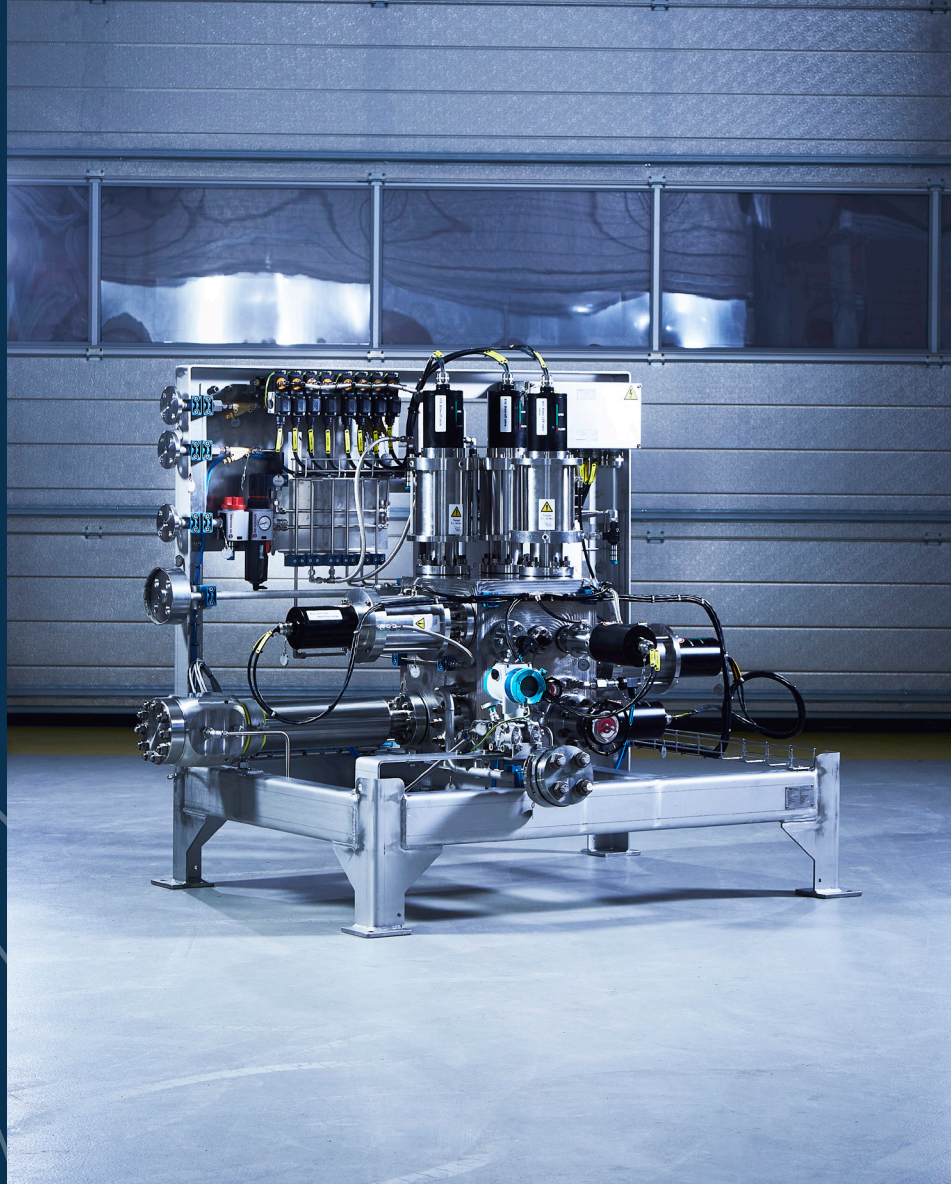


# Gas Valve Train MkIV



## 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"   |
|---|--|---|
| <b>Media Dimensioning</b>                           |  |   |
| GVT Size  | Main Line and Blow-off Line: 1" (DN25)<br>Bleed: ½" (DN15) | Main Line and Blow-off Line: 1½" (DN40)<br>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  |
| <b>Media Filtration</b>                             |  |   |
| 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)                            |
| <b>Physical Dimensions</b>                          |  |   |
| 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  |
| <b>Environment</b>                                  |  |   |
| Degree of Protection GVT (IEC 60529)                | IP65   | IP65  |
| Degree of Protection Electrical Cabinet (IEC 60529) | IP66   | IP66  |
| <b>Supply</b>                                       |  |   |
| Pneumatic Air                                       | 6-9 bar, dry air   | 6-9 bar, dry air  |
| Power Supply  | 24 VDC -25/+30 %   | 24 VDC -25/+30 %  |
| <b>Ex Classification</b>                            |  |   |
| GVT Components                                      | Ex eb db ia IIA T1 Ga/Gb                                   | Ex eb db ia IIA T1 Ga/Gb                                    |
| <b>Classification &amp; Service</b>                 |  |   |
| Classification Societies                            | (Per Customer Request)                                     | (Per Customer Request)                                      |
| Service Life  | 25 Years @ 24 Hours  | 25 Years @ 24 Hours   |