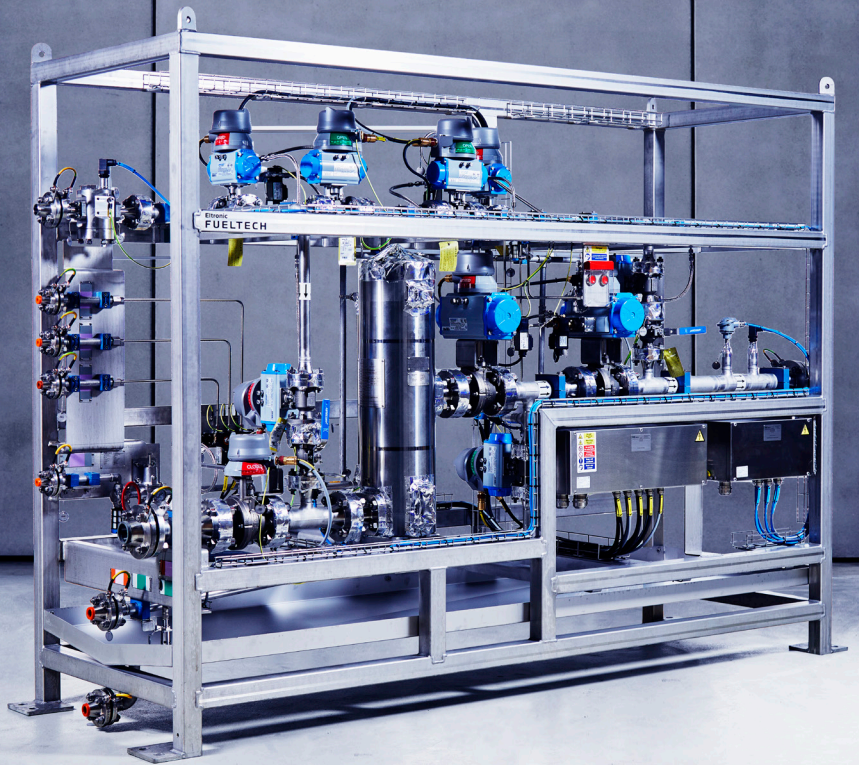


# Fuel Valve Train



## Product information

The Fuel Valve Train is a block and bleed valve configuration designed to control flow of methanol and ethanol from the Low-flashpoint Fuel Supply System to the engine. The added water mixing feature enables our customers to mix methanol with water, and by that to comply with Tier III regulations.

The 2-inch Fuel Valve Train supports larger two-stroke engines with fuel consumptions of up to 19.000 kg/h with an additional option of water mixing supply of up to 6.700 kg/h.

In case of a normal shutdown or emergency shutdown, the Fuel Valve Train will disengage the fuel supply to the engine and send excess fuel from the Fuel Valve Train to the drain. A nitrogen purge system is incorporated into the Fuel Valve Train to purge the system and the engine while preventing the fuel from reaching any safe areas.

The benefits of the Fuel Valve Train include filtration of media before injection as well as temperature and pressure monitoring between fuel supply system and engine. A drip tray is installed as a safety measure. Moreover, the Fuel Valve Train is designed for easy accessibility and maintenance.

## Description **FVT MeOH (1 inch, 1½ inch, 2 inch, 2½ inch)**

Media Dimensioning	FVT, 1"	FVT, 1½"	FVT, 2"	FVT, 2½"
FVT Size	Main Line: 1", DN25 N2 Line: ½", DN15 Water Line: ½", DN15	Main Line: 1½", DN40 N2 Line: ½", DN15 Water Line: ½", DN15	Main Line: 2", DN50 N2 Line: 1", DN25 Water Line: 1", DN25	Main Line: 2½", DN65 N2 Line: 1", DN25 Water Line: 1", DN25
Material in Contact with Media	AISI 316/316L - EN 1.4401/1.4404	AISI 316/316L - EN 1.4401/1.4404	AISI 316/316L - EN 1.4401/1.4404	AISI 316/316L - EN 1.4401/1.4404
Media for Engine	Methanol (optional water-mixture)	Methanol (optional water-mixture)	Methanol (optional water-mixture)	Methanol (optional water-mixture)
Media for Purge	Nitrogen, N <sub>2</sub>	Nitrogen, N <sub>2</sub>	Nitrogen, N <sub>2</sub>	Nitrogen, N <sub>2</sub>
Nominal Working Pressure [PN]	13 bar – 1.300 kPa	13 bar – 1.300 kPa	13 bar – 1.300 kPa	13 bar – 1.300 kPa
Design Pressure [PS]	16 bar – 1.600 kPa	16 bar – 1.600 kPa	16 bar – 1.600 kPa	16 bar – 1.600 kPa
Test Pressure [PT]	24 bar – 2.400 kPa	24 bar – 2.400 kPa	24 bar – 2.400 kPa	24 bar – 2.400 kPa
Design Flow	Methanol flow: 3.600 kg/h Optional Water flow: 1.300 kg/h	Methanol flow: 12.000 kg/h Optional Water flow: 4.000 kg/h	Methanol flow: 19.000 kg/h Optional Water flow: 6.700 kg/h	Methanol flow: 31.000 kg/h Optional Water flow: 11.500 kg/h
Media Design Temperature	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C
Media Operation Temperature	45°C +10°C/-20°C	45°C +10°C/-20°C	45°C +10°C/-20°C	45°C +10°C/-20°C
<b>Physical Dimensions</b>				
Dimensions (WxHxL)	860 x 1480 x 2050 mm	875 x 1540 x 2450 mm	905 x 2050 x 2780 mm	1085 x 1950 x 3240 mm
Weight (incl. FVT, wall mounts and spill tray)	TBD	TBD	Approx. 1700 kg	TBD
<b>Environment</b>				
Ambient Temperature	-25°C - +60°C	-25°C - +60°C	-25°C - +60°C	-25°C - +60°C
Degree of Protection (IEC 60529)	Minimum IP65	Minimum IP65	Minimum IP65	Minimum IP65
<b>Supply</b>				
Supply Voltage	24 VDC -25% / +30%	24 VDC -25% / +30%	24 VDC -25% / +30%	24 VDC -25% / +30%
Pneumatic Air	6-10 bar, ISO 8573-1 Class 7.7.3	6-10 bar, ISO 8573-1 Class 7.7.3	6-10 bar, ISO 8573-1 Class 7.7.3	6-10 bar, ISO 8573-1 Class 7.7.3
<b>Ex Classification</b>				
FVT Components	Minimum Ex eb db ia IIC T4 Ga/Gb	Minimum Ex eb db ia IIC T4 Ga/Gb	Minimum Ex eb db ia IIC T4 Ga/Gb	Minimum Ex eb db ia IIC T4 Ga/Gb
<b>Classification</b>				
Classification Societies (Per Customer Request)	DNV/GL, ABS, NK	DNV/GL, ABS, NK	DNV/GL, ABS, NK	DNV/GL, ABS, NK