



Product information

Eltronic FuelTech is proud to introduce our Fuel Valve Train NH3 specially designed for ammonia fuel operation. As the International Maritime Organization (IMO) aims to achieve a significant reduction of at least 40% in vessel-related CO2 emissions by 2030, it is essential to transition to decarbonized marine fuels. Green ammonia, a zero carbon fuel, is a highly viable solution that has been identified as the ideal fully decarbonized fuel for the shipping industry to fulfill the IMO's CO2 reduction targets. Our system has been engineered to enable efficient and reliable utilization of this zero-emission fuel in the shipping sector.

The Fuel Valve Train NH3 is a block and bleed valve configuration designed to provide isolation capability between the ammonia fuel supply system and the dual fuel engine. In case of a normal or emergency shutdown, the Fuel Valve Train will disengage the fuel supply to the engine and send excess fuel from the engine to the recirculation system or vent system. A nitrogen purge connection is incorporated into the Fuel Valve Train. This is needed in order to purge the engine, and is designed to prevent back flow of fuel to the nitrogen source.

The benefits of the Fuel Valve Train include filtration of media as well as temperature and pressure monitoring between the fuel supply system and the engine. The Fuel Valve Train is controlled by the engine control system.

Description		FVT NH3, 2"
Media Dimensioning		
FVT Size (Other FVT sizes can be prepared on request)		Main Line: 2" (DN50) Purge and Bleed Line: 1" (DN25) Return Line: 1" (DN25)
Material in Contact with Media		Stainless steel
Media for Engine		Ammonia (NH3)
Media for Purge		Nitrogen (N2)
Nominal Pressure [PN]		8.300 kPa (83 bar)
Design Pressure [PS]		10.000 kPa (100 bar)
Design Flow (Supply)		11.500 kg/h
Media Design Temperature		-34 °C ≤ T ≤ 60 °C
Physical Dimensions		
Dimensions (LxWxH)		Approx. 5900 x 1500 x 2000 mm
Weight		Approx. 3000 kg
Media Filtration		
Fuel Supply Filter (SVT safety filter)		20 µm
Fuel Return Filter (RVT safety filter)		100 µm
Nitrogen (N2) Filter		20 µm
Environment (IEC 60529)		
IP rating. Electrical Component on Process Unit		Min. IP56
IP rating. Electrical Cabinet		IP66
Supply		
Power Supply		24 VDC -25/+30 %
Pneumatic Air		5-9 bar, dry air
Ex Classification		
Components		GasGroup IIA, Temp. Class T1
Electrical Cabinet		Electrical cabinet must be installed in safe area. Contains barriers for Ex components placed in hazardous area.
Classification		
Classification Societies		Per Customer Request

Please note! ME-LGI-A design requirements are currently being verified and updates may occur. For latest update, contact us on sales@eltronicfueltech.com.