



Low-flashpoint Fuel Supply System for methanol fuel operation

The Low-flashpoint Fuel Supply System for methanol (LFSS MeOH) is designed to receive, condition, and deliver methanol fuel from tank to engine through the Fuel Valve Train. The main purpose of LFSS MeOH is to deliver methanol at a specified pressure depending on the demand from the engine control system, whether it being methanol changeover or load changes.

The LFSS MeOH consists of inlet-, pressure control-, temperatur conditioning- and a filtration system integrated into a complete package, and the unit is independently controlled by its own LFSS control system. The one pump stage technology assures an energy-efficient delivery of fuel to end-user equipment.

The LFSS MeOH is moreover designed to deliver fuel safely and reliably within engine specifications. The system incorporates components that are well-established and widely recognized in the Eltronic FuelTech FVTs for methanol fuel operation.

** The unit showcased in the image represents the LFSS M20 model. Please be aware that the constructions of the M5, M10, and M30 models may differ.*

Description	LFSS MeOH (M5, M10, M20 & M30)			
Media Dimensioning	LFSS-M5	LFSS-M10	LFSS-M20	LFSS-M30
LFSS size	Inlet: 2,5" (DN65) Outlet: 1" (DN25) Purge & bleed line: ½" (DN15)	Inlet: 3,5" (DN90) Outlet: 1½" (DN40) Purge & bleed line: ½" (DN15)	Inlet: 5" (DN125) Outlet: 2" (DN50) Purge & bleed line: 1" (DN25)	Inlet: 6" (DN150) Outlet: 2,5" (DN65) Purge & bleed line: 1" (DN25)
Material in contact with media	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Media for engine	Methanol, MeOH	Methanol, MeOH	Methanol, MeOH	Methanol, MeOH
Media for purge	Nitrogen, N ₂	Nitrogen, N ₂	Nitrogen, N ₂	Nitrogen, N ₂
Nominal working pressure [PN]	1.300 kPa (13 bar)	1.300 kPa (13 bar)	1.300 kPa (13 bar)	1.300 kPa (13 bar)
Design pressure [PS]	1.600 kPa (16 bar)	1.600 kPa (16 bar)	1.600 kPa (16 bar)	1.600 kPa (16 bar)
Test pressure [PT]	2.400 kPa (24 bar)	2.400 kPa (24 bar)	2.400 kPa (24 bar)	2.400 kPa (24 bar)
Max. pressure hysteresis	50 kPa (0,5 bar)	50 kPa (0,5 bar)	50 kPa (0,5 bar)	50 kPa (0,5 bar)
Design flow	5.000 kg/h	9.975 kg/h	19.500 kg/h	29.500 kg/h
Maximum flow capacity	5.000 kg/h	9.975 kg/h	19.500 kg/h	29.500 kg/h
Minimum flow @ PS	0 kg/h	0 kg/h	0 kg/h	0 kg/h
Ambient temperature	-25°C to +55°C	-25°C to +55°C	-25°C to +55°C	-25°C to +55°C
Fuel temperature inlet	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C
Fuel temperature outlet	+25°C to +50°C	+25°C to +50°C	+25°C to +50°C	+25°C to +50°C
Absolute filter fineness	10µm	10µm	10µm	10µm
Physical Dimensions				
Frame dimensions (WxDxH)	3100 x 1800 x 2200 mm	4500 x 2000 x 2200 mm	5540 x 2200 x 2200 mm	5540 x 2200 x 2200 mm
Supply				
Voltage supply	Main power: 3 Ph 440 VAC ±10% Aux. power: 1 Ph+N 230 VAC ±10%	Main power: 3 Ph 440 VAC ±10% Aux. power: 1 Ph+N 230 VAC ±10%	Main power: 3 Ph 440 VAC ±10% Aux. power: 1 Ph+N 230 VAC ±10%	Main power: 3 Ph 440 VAC ±10% Aux. power: 1 Ph+N 230 VAC ±10%
Voltage frequency	60 Hz ±10%	60 Hz ±10%	60 Hz ±10%	60 Hz ±10%
Power supply current consumption	Main power: 100 A Aux. power: 40 A	Main power: 100 A Aux. power: 40 A	Main power: 100 A Aux. power: 40 A	Main power: 100 A Aux. power: 40 A