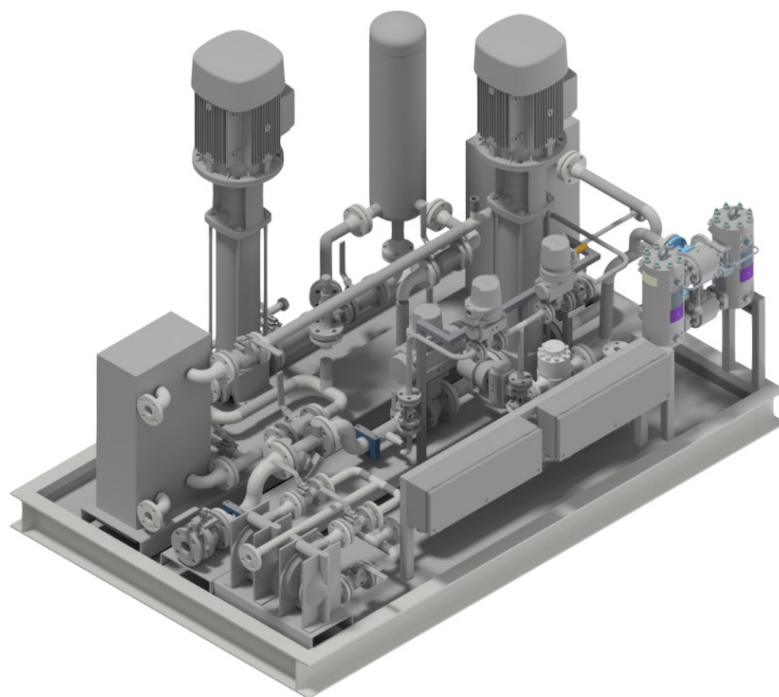




## Low-flashpoint Fuel Supply System for methanol fuel operation

The LFSS MeOH, a comprehensive Low-flashpoint Fuel Supply System, is engineered to manage the reception, conditioning, and delivery of methanol fuel from the tank to the engine through the Fuel Valve Train. This integrated system incorporates inlet-, pressure control-, temperature conditioning-, and filtration components into a cohesive package.

Utilizing a single pump stage technology, the LFSS MeOH ensures efficient fuel delivery to end consumers. Designed with precision, the unit guarantees safe and reliable delivery of fuel within engine specifications. The small footprint allows the integration of the LFSS into compact areas without sacrificing performance or functionality.

## Description LFSS MeOH (M5, M10, M20 & M30)

| Media Dimensioning               | LFSS-M5                                                                  | LFSS-M10                                                                  | LFSS-M20                                                                | LFSS-M30                                                                  |
|----------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------|
| LFSS size                        | Inlet: 2,5" (DN65)<br>Outlet: 1" (DN25)<br>Purge & bleed line: ½" (DN15) | Inlet: 3,5" (DN90)<br>Outlet: 1½" (DN40)<br>Purge & bleed line: ½" (DN15) | Inlet: 5" (DN125)<br>Outlet: 2" (DN50)<br>Purge & bleed line: 1" (DN25) | Inlet: 6" (DN150)<br>Outlet: 2,5" (DN65)<br>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 <sub>2</sub>                                                 | Nitrogen, N <sub>2</sub>                                                  | Nitrogen, N <sub>2</sub>                                                | Nitrogen, N <sub>2</sub>                                                  |
| 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 pressue [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)         | N/A                                                                      | N/A                                                                       | N/A                                                                     | N/A                                                                       |
|                                  |                                                                          |                                                                           |                                                                         |                                                                           |
| Supply                           |                                                                          |                                                                           |                                                                         |                                                                           |
| Voltage supply                   | Main power: 3 Ph 440 VAC ±10%<br>Aux. power: 1 Ph+N 230 VAC ±10%         | Main power: 3 Ph 440 VAC ±10%<br>Aux. power: 1 Ph+N 230 VAC ±10%          | Main power: 3 Ph 440 VAC ±10%<br>Aux. power: 1 Ph+N 230 VAC ±10%        | Main power: 3 Ph 440 VAC ±10%<br>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<br>Aux. power: 40 A                                    | Main power: 100 A<br>Aux. power: 40 A                                     | Main power: 100 A<br>Aux. power: 40 A                                   | Main power: 100 A<br>Aux. power: 40 A                                     |