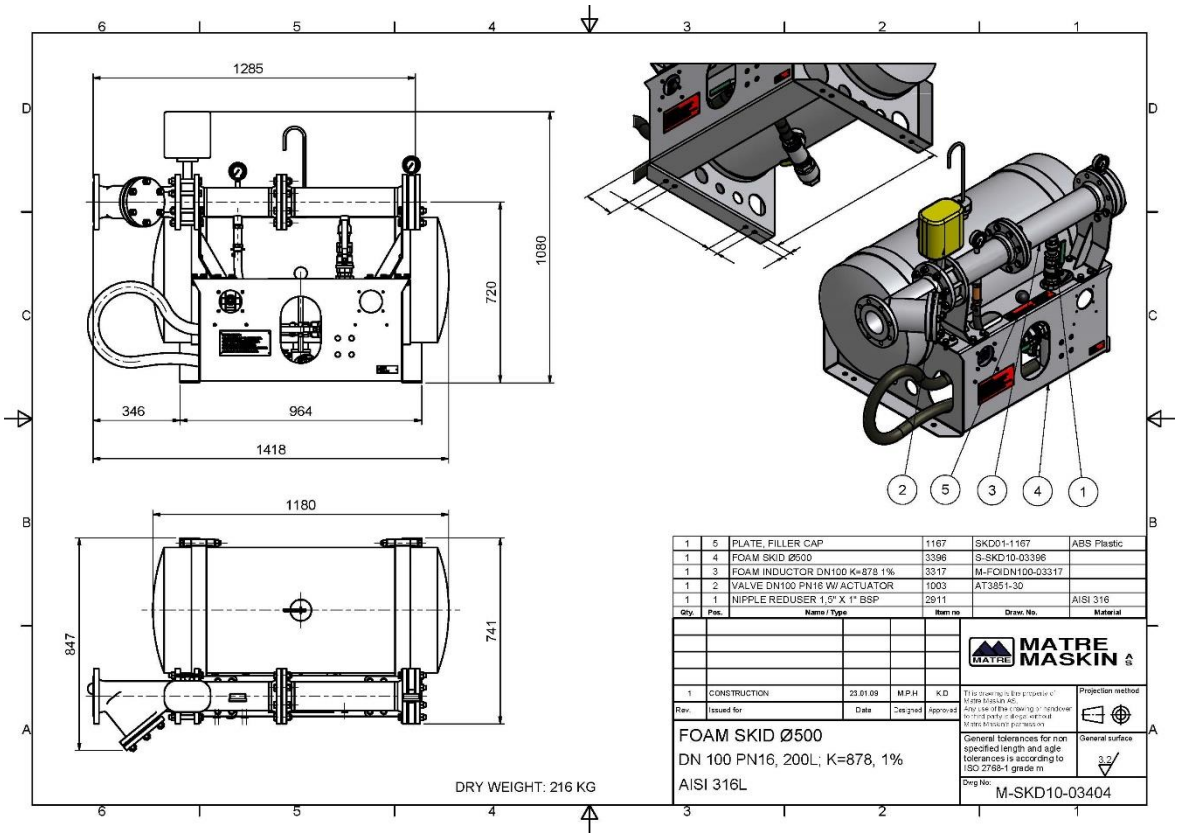
FOAM SKID FOR POP-UP SYSTEM M-SKD10

STANDARD DESIGN



Characteristics	Standard	Options
Material	AISI 316	
Interface for water supply	DN100 PN16	DN150 PN16
Foam tank (atmospheric)	200l	300l
Design pressure (water)	16 bar	
Foam concentrate refilling pump	0,7 l/stroke	
Test pressure	24 bar	
Insertion rate	1% Tolerances 0% 0- +30% 3% Tolerances 0% 0- +30%	Tolerances ± 10%
Skid capacity[1] Flow @ 7 bar 1% insertion rate	DN100 240 - 3400 l/min K= 280 – 1285	DN150 1% and 3% insertion rate 1850 - 8070 l/min K= 700 – 3050
Flow @ 7 bar 3% insertion rate	240 - 2500 l/min K= 280 – 945	K=1285 @ 3% insertion rate using 1 ½" foam inlet.
Flow tolerance	Nominal value ±5%	
Design temperature	-20°C - +60°C	
Minimum pressure loss	30 % of inlet pressure	
Footprint	Ca 750x1000 mm	
Weight (dry)	260 kg	TBA

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GENERAL DESCRIPTION

The system is a compact unit designed to insert an exact rate of foam concentrate directly to the fire water line close to the nozzles only using some of the energy in the water. Only to be hooked up to the water line and control signal from the control panel.
Special designed for systems using Matre pop-up nozzles, but also suitable to be installed in other applications.

DESIGN DESCRIPTION

The system can carry a 200l or 300l tank.
Calibrated to 1% or 3% insertion rate.
Inductor capacity K= 280 – 3050 using inductor size DN100 or DN150

SYSTEM DESCRIPTION

Main components are tank for foam concentrate and inductor.
The inductor will when the water flow is activated create a vacuum which sucks foam from the tank in to the water flow at a preset calibrated rate, normally 1% or 3% using 30% of the water pressure. The inductor is also calibrated to a specific flow when the water inlet pressure is at rated level.
An actuator valve will activate the system down during continues running of fire pumps. Foam insertion can be shut off for test run.
One operation panel and one or more remote control panels can be placed indoor or outdoor according to applicable rules and requirements.

MAIN COMPONENTS

- Skid for installation to the deck carrying all components.
- Ventilated tank with dip stick and drain valve for foam concentrate. Size 200l or 300l
- Manual pump for foam concentrate refilling.
- Strainer at water inlet to prevent particles to clog nozzles.
- Actuator valve to start or shut down system.
- Pressure indicators at inlet and outlet of inductor to monitor pressure and pressure loss.
- Inductor size DN100 or DN 150 designed and calibrated to any flow- and insertion rate.
- Ball vales to shut of filling pump and foam insertion.

TESTING AND CERTIFICATION

- Leakage test (tank)
- Pressure test (water line)
- Performance test.
- Material certificates.
- Certificate of conformity

Note 1: System capacity for a pop-up system could be less than the skid capacity due to for instance flow resistance in the downstream piping.

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