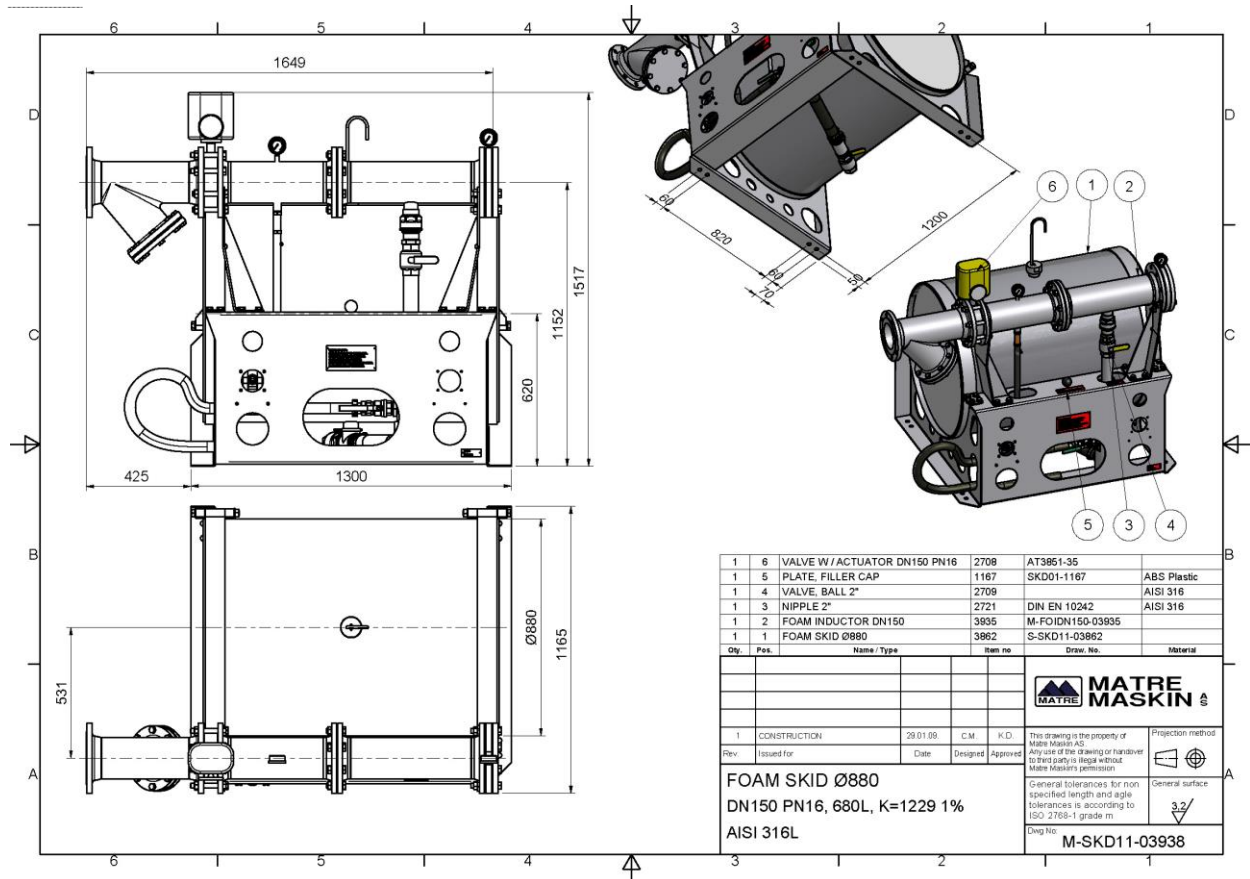


FOAM SKID FOR POP-UP SYSTEM M-SKD11

STANDARD DESIGN



Characteristics

Standard

Options

Material	AISI 316		
Interface for water supply	DN150 PN16	DN100 PN16	
Foam tank (atmospheric)	680l	1450l	
Design pressure (water)	16 bar		
Foam concentrate refilling pump	0,7 l/stroke		
Test pressure	24 bar		
Insertion rate	1% Tolerances 0% 0- +30%	Tolerances ± 10%	
	3% Tolerances 0% 0- +30%		
Skid capacity ¹	DN150 1% and 3% insertion rate	DN100	
Flow @ 7 bar 1% insertion rate	1850 - 8070 l/min K= 700 – 3050	240 - 3400 l/min K= 280 – 1285	
Flow tolerance	Nominal value ±5%		
Design temperature	-20°C - +60°C		
Minimum pressure loss	30 % of inlet pressure		
Footprint	Ca 1165x1300 mm		

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Weight (dry)

405 kg

TBA

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 680l or 1450l 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 of 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

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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.