MATRE
TECHNOLOGY TO PROTECT

Standard Documentation

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Rev.	Date	Description	Made by	Checked by	Approved by

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01	DS-0035	3

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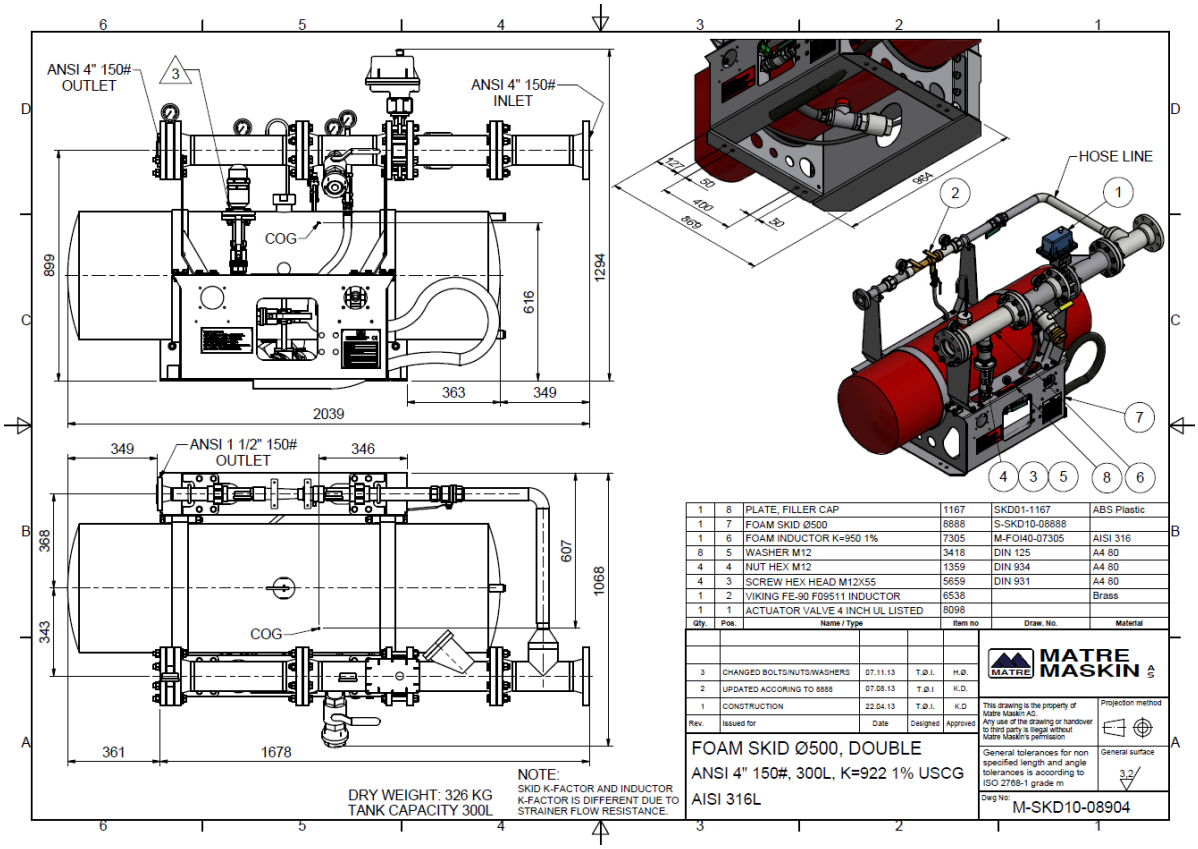
Datasheet USCG skid

STANDARD DESIGN



Qty.	Pos.	Name / Type	Item no	Draw. No.	Material
1	8	PLATE, FILLER CAP	1167	SKD01-1167	ABS Plastic
1	7	FOAM SKID Ø500	8888	S-SKD10-08888	
1	6	FOAM INDUCTOR K=950 1%	7305	M-FOI40-07305	AISI 316
8	5	WASHER M12	3418	DIN 125	A4 80
4	4	NUT HEX M12	1359	DIN 934	A4 80
4	3	SCREW HEX HEAD M12X55	5659	DIN 931	A4 80
1	2	VIKING FE-90 F09511 INDUCTOR	6538		Brass
1	1	ACTUATOR VALVE 4 INCH UL LISTED	8098		

Rev.	Issued for	Date	Designed	Approved
3	CHANGED BOLTS/NUTS/WASHERS	07.11.13	T.Ø.I.	H.Ø.
2	UPDATED ACCORING TO 8888	07.08.13	T.Ø.I	K.D.
1	CONSTRUCTION	22.04.13	T.Ø.I.	K.D

Characteristics	**Standard**
Material	AISI 316
Interface for water supply	ANSI 150# RF
Foam tank (atmospheric)	300l
Foam Concentrate	Chemguard 1% AFFF C103
Min. foam concentrate fill	200l
Design pressure (water)	16 bar
Test pressure	24 bar
Insertion rate	1% Tolerances 0% 0- +30%
Skid hose line capacity Flow @ 7 bar 1% insertion rate	DIFFS: 645 GPM / 2440 l/min (K-922). HOSELINE: 70 GPM / 265 l/min (K-100) TOTAL CAPACITY: 715 GPM / 2705 l/min Min. inlet pressure 7 bar
Flow tolerance	Nominal value ±5%
Minimum pressure loss	30 % of inlet pressure
Footprint	Ca 1100x2000 mm
Weight (dry)	226/365 kg Depending on type deluge valve

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. The system have two different water and foam concentrate lines; one main 4" line and one 1 ½" line. Both with foam insertion from same concentrate tank. 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 and hosereel station with hand held foam nozzle.
Skid is also delivered in "mirrored" version.

DESIGN DESCRIPTION

The system has a 300l foam concentrate tank.
Calibrated to 1% insertion rate.
Inductor capacity mainline is K= 950 using inductor size 4".
Inductor capacity 1½" for hose reel station is K=100

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% using 30% of the water pressure. The inductor is also calibrated to a specific flow when the water inlet pressure is at rated level.

A remote operated valve will activate the system down during continues running of fire pumps. Release of waterline for hose reel station is manually operated.
Foam insertion can be shut of for test run.
For release of main system, 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 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 DN150 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
- Welding documentation