

Description

The FI-CSM foam chamber is a device designed for the controlled introduction of foam onto the surface of flammable liquids stored in tanks.

At the chamber inlet, a calibrated stainless-steel nozzle is installed, engineered to ensure proper flow rate at the specified operating pressure.

During operation, air is drawn in and mixed with the foam solution through a filtered air intake and a non-return valve. Once the air/solution mixture enters the chamber, it expands and causes the glass frangible disc to break, thus allowing the expanded foam to flow freely into the tank.

The frangible disc is easily accessible through a removable top cover, which enables quick and safe maintenance of the disc.

Application

The FI-CSM foam chamber is mainly used on fixed-roof storage tanks containing flammable liquids.



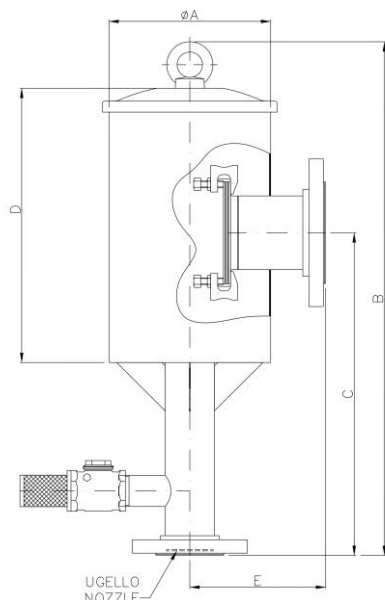
Technical Characteristics

Materials	Body: carbon steel or st. steel AISI 304/316
	Nozzle: st. steel
	Rupture disc: glass
	Non-return valve: Brass
Connections	Flanged UNI PN 16 or ANSI 150 RF/FF
Painting	Red RAL 3000 (100 µm final). Different paint cycle and colours available upon request
Options	St. steel glass reinforcement disc
	Foam pourer

Compatibility with fluorine-free foams

The FI-CSM is fluorine free compatible. For further detailed information, please contact the company.

Dimensions



Model	Measures (mm)					Connections	
	A	B	C	D	E	In	Out
FI-CSM 2	250	800	500	425	210	2"	3"
FI-CSM 3	250	800	500	425	210	2"	4"
FI-CSM 4	250	800	500	425	210	3"	4"
FI-CSM 6	400	1200	800	620	300	3" / 4"	6"
FI-CSM 8	400	1200	800	620	300	4"	8"
FI-CSM 10	400	1200	800	620	300	6"	8"

Performances

Model	Flow rate (lt/min)	Suggested operating pressure (bar)	Weight (Kg)
FI-CSM 2	200 - 450	3-6	19
FI-CSM 3	200 - 450	3-6	21
FI-CSM 4	500 - 1260	3-6	24
FI-CSM 6	1260 - 2600	3-6	40
FI-CSM 8	1260 - 2600	3-6	45
FI-CSM 10	1260 - 4000	3-6	55

Flow rate and pressure are calibrated according to the Customer's requirements. The values shown in the table indicate the minimum and maximum calibration limits of the chamber. Please contact the Company to verify whether the requested flow rate and pressure parameters are compatible.

Accessories: foam pourers

Foam pourers are devices designed to channel the discharge of the foam solution.

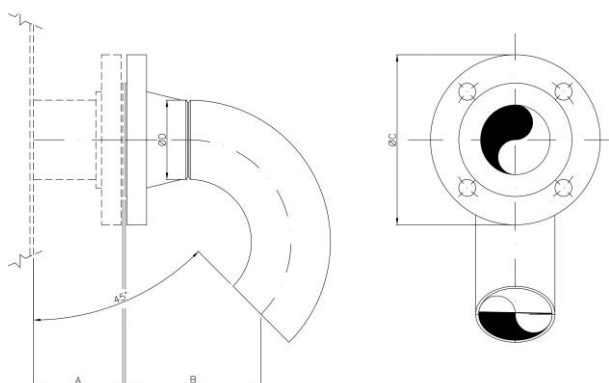
The following models are available:

1. FI-VE foam pourer
2. FI-VEF foam pourer

The FI-VE foam pourer is installed inside the storage tank and ensures a gentle application of the foam solution onto the surface of flammable liquid. Dimensions are shown in the table below.

The FI-VEF foam pourer is a custom-made device designed to fit existing tank openings, allowing installation from the outside.

FI-VE dimensions



Model	Measures				Weight kg	
	A (mm)	B (mm)		C / D Ø	Carbon steel	St. steel
		UNI	ANSI			
FI-VE 3	100	132	152	3"	8	7
FI-VE 4	100	161	185	4"	11	10
FI-VE 6	100	218	252	6"	21	19
FI-VE 8	150	280	320	8"	41	30



Foam pourer FI-VE



Foam pourer FI-VEF

Technical Characteristics	
Material	Body: carbon steel or st. steel AISI 304/316
Connection	Flanged UNI PN 16 or ANSI 150 RF/FF
Painting	Red RAL 3000 (100 µm final). Different paint cycle and colours available upon request
Option	Discharge protection screen