

Description

Inline inductors provide a cost-effective and efficient solution for dosing foam concentrate in applications with constant flow rates and adequate water pressure. The FI-MLB inline proportioner is a Venturi-type device designed to mix water and foam for low, medium, or high expansion. It can be used in mobile systems or fixed installations where the total flow rate must match that of the proportioner.

The operating pressure at which the proportioner is calibrated is fixed and can be selected within the 5–12 bar range, with optimized performance at higher pressures.

In general, inline proportioners are easy to install and maintain, require no external power supply, and can be used with any foam tank.

Application

The FI-MLB inline inductor can be used in mobile systems or fixed installations. It is often employed in deluge systems with a suction line connected to an atmospheric-pressure foam concentrate tank.



Operation

The FI-MLB inline inductor injects foam concentrate into a water stream within a fixed-flow foam system.

The proportioner can be calibrated for use with different types of foam concentrate, making it suitable for a variety of foam deluge system applications.

Each proportioner is calibrated according to the system requirements specified by the customer, such as flow rate and inlet pressure of the inductor, type of foam concentrate, and mixing percentage. This information must be provided at the time of order.

The required flow rate of the inductor is determined by the discharge devices' flow demand at the design pressure of the foam system.

Compatibility with fluorine free foams

The FI-MLB inline inductor is compatible with fluorine-free concentrates. For more detailed information, please contact the company.

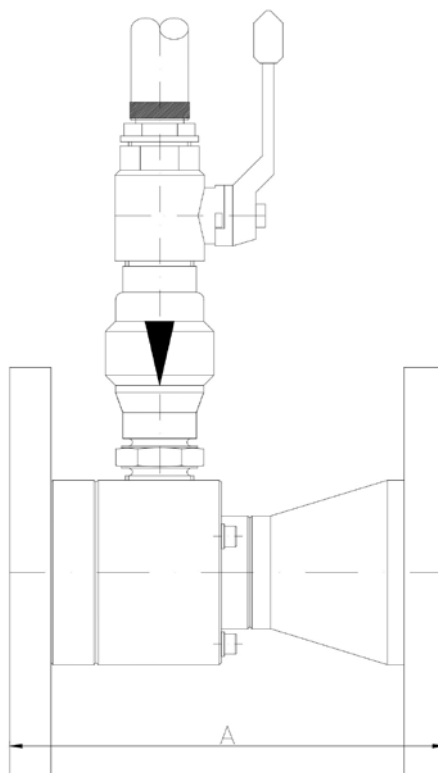
Technical characteristics	
Materials	Body made of brass On request, the body is available in bronze or stainless steel AISI 304/316"
Connections	Flanged or threaded
Supplied accessories	PVC suction hose, standard length 2.5 m Stainless steel foam check valve Brass foam line ball shut-off valve (stainless steel available on request) Option: two-position valve for variable mixing
Weight	FI-MLB 10-23: 15 kg ; FI-MLB 21-41: 30 kg ; FI-MLB 43-60: 35 kg
Installation	Horizontal
Painting cycle	Natural finished (not painted). Painting is available on request

Performances

Model	Body diameter	Nominal flow rate (lt/min)	Fixed mixing %	Working pressure (bar)	Pressure drop
FI-MLB 10-23	3"	1000 - 2300	1% or 3% or 6%	5 - 12	40% / 45%
FI-MLB 20-41	4"	2000 - 4100	1% or 3% or 6%	5 - 12	40% / 45%
FI-MLB 38-64	6"	3800 - 6400	1% or 3% or 6%	5 - 12	40% / 45%

Flow rate, pressure, and mixing percentage are calibrated according to the Customer's requirements. The values shown in the table indicate the minimum and maximum calibration limits of the proportioner. Please contact the Company to verify whether the requested flow rate and pressure parameters are compatible. Flow rate and pressure are fixed parameters, while mixing can be made variable, on request and subject to feasibility verification, if the proportioner is equipped with a two-position mixing valve.

Dimensions



Model	Connections	Size A (mm)	Foam inlet diameter
FI-MLB 10-23	3" o 4"	212	1"
FI-MLB 20-41	4" o 6"	275	1½"
FI-MLB 38-64	4" o 6"	310	2"