

Inline Inductor MI-80, MI-100, and MI-150

Description

The stationary inline inductor injects foam agent into a water stream. The inductor can handle high counter pressures, allowing a long distance from the injection point to the foam applicator.

Application

An inline inductor is designed for use in fixed flow foam systems such as low, medium, and high-expansion foam systems, water and foam deluge systems, and monitors.

Product Features

- Light weight corrosion resistant all stainless steel construction with hot-dipped galvanized slip-on flanges
- Factory calibrated to any flow and pressure in the range
- Specifically designed for low percentage admixture
- Low main stream pressure loss
- Foam induction up to 6%
- Integrated suction check valve
- MI series ranges from 800 Lpm at 5 bar (211 gpm at 73 psi) to 12,000 Lpm at 16 bar (3,170 gpm at 232 psi) inlet pressure
- Replaceable internal parts for future system changes
- Suction height up to 3.5 m (11.5 ft)
- Installation in any vertical or horizontal position

Connections

- Water/Foam inlet: flanged to fit DIN PN16 or ANSI 150 lb
- Factory calibrated to any flow and pressure in the range

Connections

- Foam inlet ball valve: screw threaded BSP Female
- Foam concentrate suction hose

Listings and Approvals

- Russian Maritime Register of Shipping (RMRS)

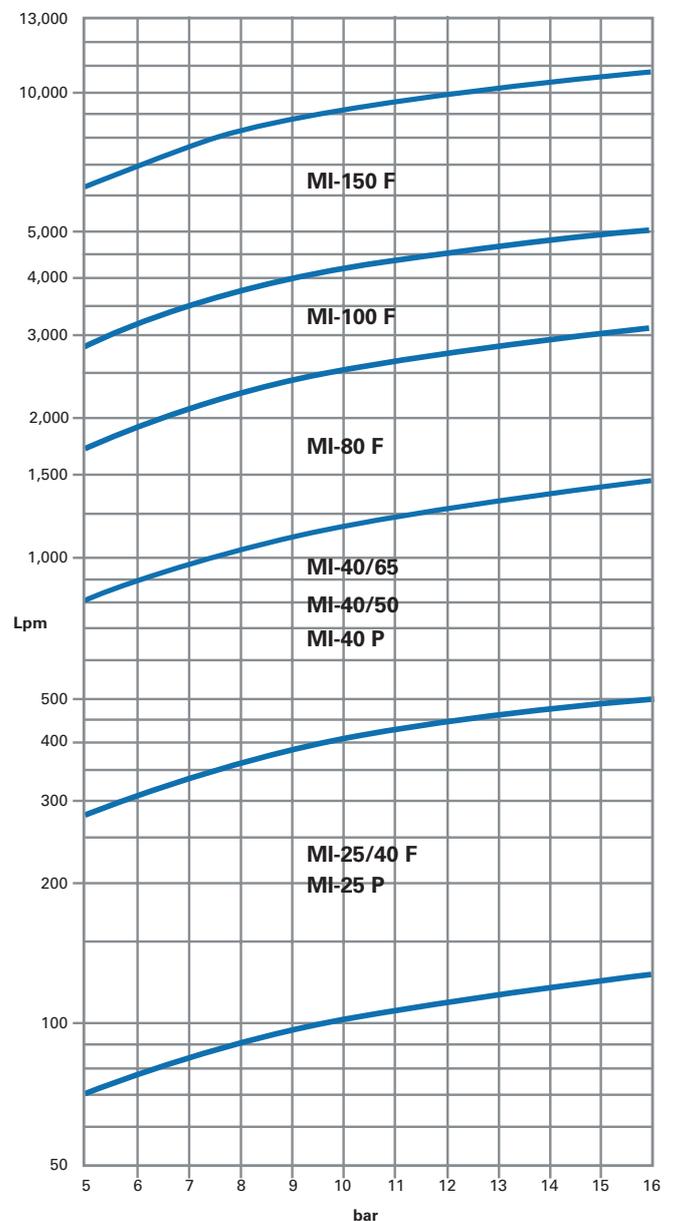
Installation

- A minimum of five nominal pipe diameters of straight pipe upstream and downstream of the inline inductor shall be used.



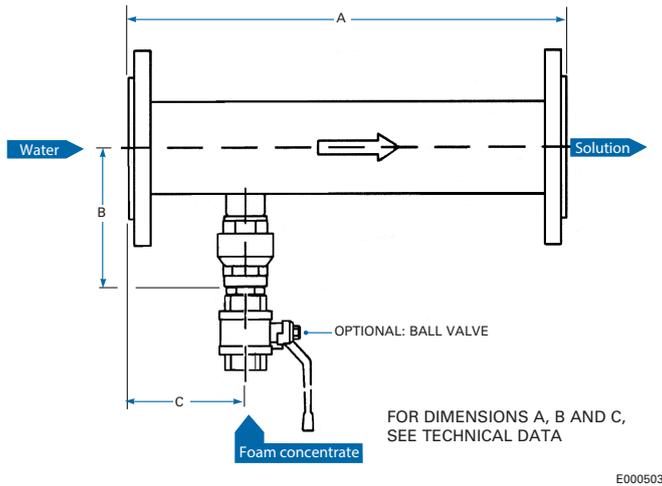
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Capacity Range for Inline Inductors



Note: 6% induction is not available for all flows. See the Technical Data table.

MI-80 F, MI-100 F, and MI-150 F



Performance Data

MI-80 F, MI-100 F, and MI-150 F	
Working pressure	Maximum 16 bar (232 psi)
Proportioning	Maximum 6%
Approximate pressure drop	30% of inlet pressure 35% of inlet pressure

Ordering Information

When ordering, specify the following information:

- Part number
- Flow (Lpm)
- Pressure (bar)
- Induction rate (%)

Part No.	Description
121708149	MI-80 F DIN 1 in. BSP
121708156	MI-80 F V DIN 1 in. BSP
121708170	MI-80 F V DIN 1 in. BSP 3% to 6%
121708244	MI-80 F ANSI 1 in. BSP
121708251	MI-80 F V ANSI 1 in. BSP
121708265	MI-80 F ANSI 1 in. BSP 3% to 6%
121710048	MI-100 F DIN/ANSI 1 1/4 in. BSP
121710055	MI-100 F V DIN/ANSI 1 1/4 in. BSP
121715446	MI-150 F DIN/ANSI 2 in. BSP
121715453	MI-150 F V DIN 2 in. BSP

Technical Data

		MI-80 F	MI-100 F	MI-150 F
Total capacity at 16 bar (232 psi)	1% to 3%	Maximum 3,150 Lpm (832 gpm)	Maximum 5,100 Lpm (1,347 gpm)	Maximum 12,500 Lpm (3,300 gpm)
	6%	Maximum 1,600 Lpm (423 gpm)	Maximum 2,550 Lpm (674 gpm)	Maximum 6,250 Lpm (1,651 gpm)
Connection	Water	80 DIN PN 16 or 3 in. ANSI 150 lb	100 DIN PN 16 fit for 4 in. ANSI 150 lb	150 DIN PN 16 fit for 6 in. ANSI 150 lb
	Foam	Female 1 in. BSP Up to 156 Lpm (41 gpm)	Female 1 1/4 in. BSP Up to 300 Lpm (79 gpm)	Female 2 in. BSP up to 720 Lpm (190 gpm)
Dimensions (approx.)	A	312 mm (12.3 in.)	490 mm (19.3 in.)	565 mm (22.2 in.)
	B	145 mm (5.7 in.)	157 mm (6.2 in.)	203 mm (8.0 in.)
	C	84 mm (3.3 in.)	130 mm (5.1 in.)	136 mm (5.4 in.)
Weight		10 kg (22 lb)	19 kg (42 lb)	28 kg (62 lb)
Material	Body	Stainless steel	Stainless steel	Stainless steel
	Nozzle and diffuse	Polypropylene	Polypropylene	Polypropylene
	Flange	Galvanized steel	Galvanized steel	Galvanized steel
	Foam concentrate check valve	Brass	Brass	Brass

Foam concentrate check valve included

Optional: Foam concentrate shut-off ball valve (V)

1 bar = 0.1 MPa = 14.5 psi

Note: The converted values in this document are provided for dimensional reference only and do not reflect an actual measurement.

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