

## Inline Inductor MI-25, 25/40, 40, 50, and 65

### Description

The stationary inline inductor injects foam liquid into a water stream. The inductor can handle high back-pressures, extending the distance from the injection point to the foam applicator.

### Application Description

An inline inductor is used in fixed installations to inject low, medium, and high-expansion foam concentrates into water flow lines for deluge and fire monitor installations.

### Product Features

- Corrosion resistant with brass body construction
- Factory calibrated to any flow and pressure within the range
- Integrated suction check valve
- MI series ranges from 70 Lpm at 5 bar (18 gpm at 73 psi) to 1,450 Lpm at 16 bar (383 gpm at 232 psi) inlet pressure
- Suction height up to 3.5 m (11.5 ft)
- Foam induction up to 6%.
- Installation in horizontal or vertical plane
- Hot-dipped galvanized steel flanges

### Installation

- Water inlet/outlet: to fit DIN PN16 or ANSI 150 lb or screw threaded BSP
- A minimum of five nominal pipe diameters of straight pipe upstream and downstream of the inline inductor shall be used.
- Foam inlet check valve: screw threaded BSP Female

### Optional Components

- Optional bronze flanges
- Foam concentrate suction hose
- Inductors available in alternative materials. Contact Johnson Controls for further details.

### Listings and Approvals

- Russian Maritime Register of Shipping (RMRS)
- Det Norske Veritas DNV (MI-25, 25/40, 40 for use with MLR-40/SA systems only)

### Ordering Information

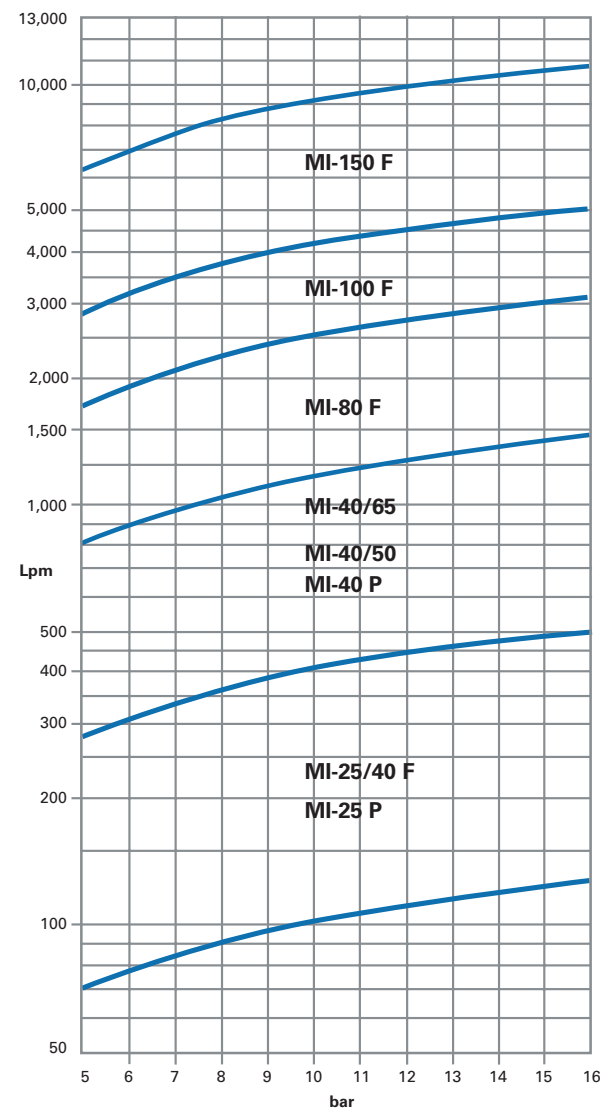
When ordering, specify the following information:

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



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### Capacity Range for Inline Inductors



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

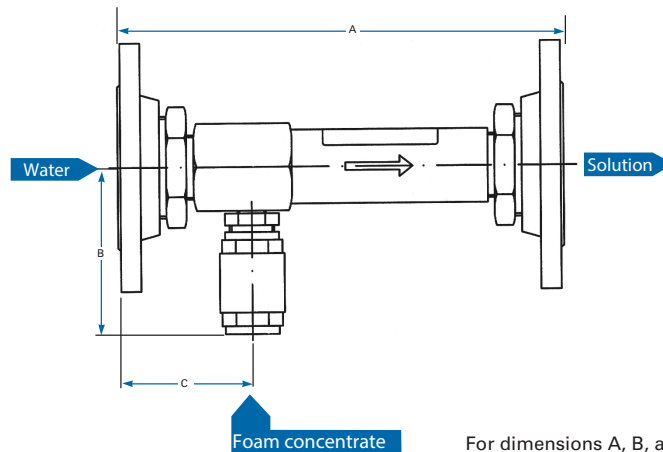
**Note:** The converted values in this document are provided for dimensional reference only and do not reflect an actual measurement.

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## Ordering Information (Continued)

Part No.	Description	Dimension - mm (in.)		
		A	B	C
121102505	MI-25 F	159 (6.3)	97 (3.8)	30 (1.2)
121102422	MI-25 F 3% or 6%	163 (6.4)	155 (6.1)	27 (1.1)
121102519	MI-25/40 F DIN	220 (8.7)	100 (3.9)	58 (2.3)
121102630	MI-25/40 F ANSI	220 (8.7)	100 (3.9)	58 (2.3)
121102533	MI-25/50 F DIN	225 (8.9)	100 (3.9)	60 (2.4)
121105637	MI-25/50 F ANSI	225 (8.9)	100 (3.9)	60 (2.4)
121102512	MI-25/F 2 in. BSP male	220 (8.7)	90 (3.5)	56 (2.2)
121102402	MI-25/P, c/w suction hose and tube, > in., 1.5 m	163 (6.4)	-	-
121304100	MI-40 F BSP	218 (8.6)	123 (4.8)	43 (1.7)
121304103	MI-40 F DIN	300 (11.8)	123 (4.8)	84 (3.3)
121304105	MI-40 F DIN 3% to 6%	300 (11.8)	123 (4.8)	84 (3.3)
121304201	MI-40 F ANSI	300 (11.8)	123 (4.8)	84 (3.3)
121304204	MI-40 F ANSI 3% to 6%	300 (11.8)	123 (4.8)	84 (3.3)
121304802	MI-40 P FC/T 1 in. 1.5 m	218 (8.6)	123 (4.8)	43 (1.7)
121304107	MI-50 F DIN	300 (11.8)	123 (4.8)	90 (3.5)

Part No.	Description	Dimension - mm (in.)		
		A	B	C
121304110	MI-50 F DIN 3% to 6%	310 (12.2)	205 (8.1)	90 (3.5)
121304205	MI-50 F ANSI	310 (12.2)	123 (4.8)	90 (3.5)
121304207	MI-50 F ANSI 3% to 6%	310 (12.2)	205 (8.1)	90 (3.5)
121304114	MI-65 F DIN	330 (13.0)	123 (4.8)	100 (3.9)
121304128	MI-65 F DIN 3% to 6%	310 (12.2)	205 (8.1)	100 (3.9)
121304212	MI-65 F ANSI	330 (13.0)	123 (4.8)	100 (3.9)
121304226	MI-65 F ANSI 3% to 6%	310 (12.2)	205 (8.1)	100 (3.9)
121802305	MI-25 suction hose FC/V foam valve > in. 1.5 m	-	-	-
121802181	MI-25 suction hose with tube FC/T 1/2 in. 1.5 m	-	-	-
121804059	MI-40 suction hose FC 1 in. 1.5 m	-	-	-
121804024	MI-40 suction hose with tube FC/T 1 in. 1.5 m	-	-	-
121804307	MI-40-65 suction hose FC/V foam valve 1 in. 1.5 m	-	-	-



For dimensions A, B, and C, see the tables in Ordering Information

## Performance Data

	MI-25 and MI-25/40	MI-40, MI-50, and MI-65
<b>Water capacity at 16 bar (232 psi)</b>	Maximum 500 Lpm (132 gpm)	Maximum 1,450 Lpm (383 gpm)
<b>Total capacity for 6% induction</b>	Maximum 250 Lpm (66 gpm)	Maximum 725 Lpm (192 gpm) for MI-50
<b>Working pressure</b>	Maximum 16 bar (232 psi)	Maximum 16 bar (232 psi)
<b>Proportioning</b>	Maximum 6%	Maximum 6%
<b>Pressure drop</b>	Approximately 35% of inlet pressure	Approximately 35% of inlet pressure

	MI-25	MI-25/40	MI-40	MI-50	MI-65
<b>Connection: Water</b>	Male 1 in. BSP	40 DIN PN 16 or 1 1/2 in. ANSI 150 lb	Female 1 1/2 in	50 DIN PN 16 or 2 in. ANSI 150 lb	65 DIN PN 16 or 2 1/2 in. ANSI 150 lb
<b>Connection: Foam</b>	Female 1/2 in. BSP	Female 1/2 in. BSP	Female 1 in. BSP	Female 1 in. BSP	Female 1 in. BSP
<b>Weight</b>	2.6 kg (5.7 lb)	7.0 kg (15.4 lb)	5.5 kg (12.1 kg)	7.0 kg (15.4 lb)	13.0 kg (28.6 lb)
<b>Material: Body</b>	Brass	Brass	Brass	Brass	Brass
<b>Material: Flange</b>	Galvanized steel	Galvanized steel	Galvanized steel	Galvanized steel	Galvanized steel
<b>Included</b>	Foam concentrate check valve	Foam concentrate check valve	Foam concentrate check valve	Foam concentrate check valve	Foam concentrate check valve
<b>Optional</b>	Foam concentrate suction hose	Foam concentrate suction hose	Foam concentrate suction hose	Foam concentrate suction hose	Foam concentrate suction hose

1 bar = 0.1 MPa = 14.5 psi