

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

Description

The function of the stationary inline inductor is to inject foam liquid into a water stream. The inductor is designed to 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
- 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

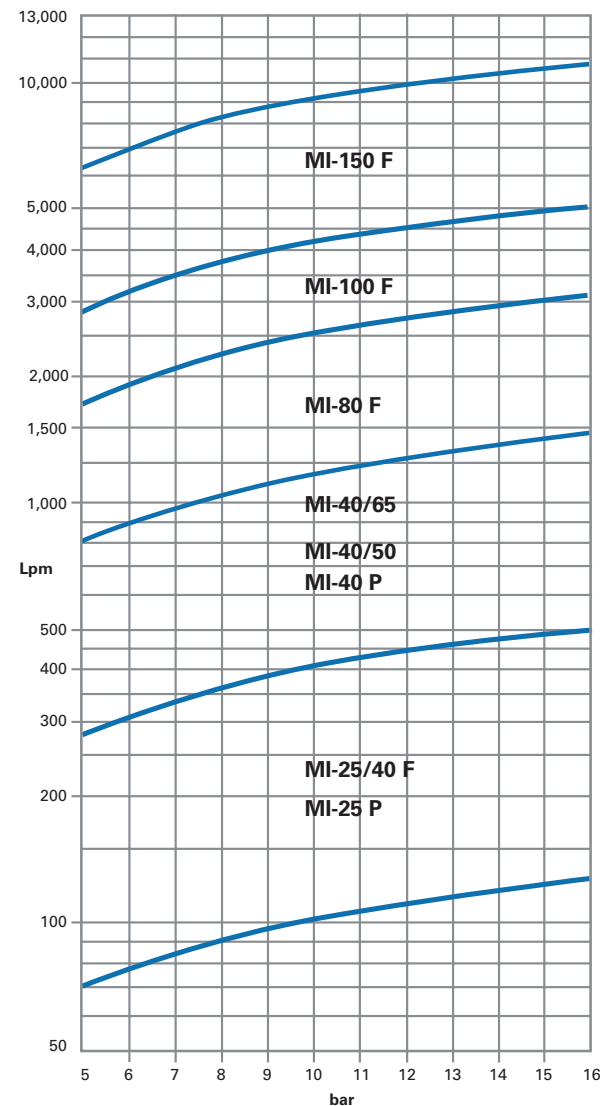
When ordering, specify the following information:

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



E000497

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.

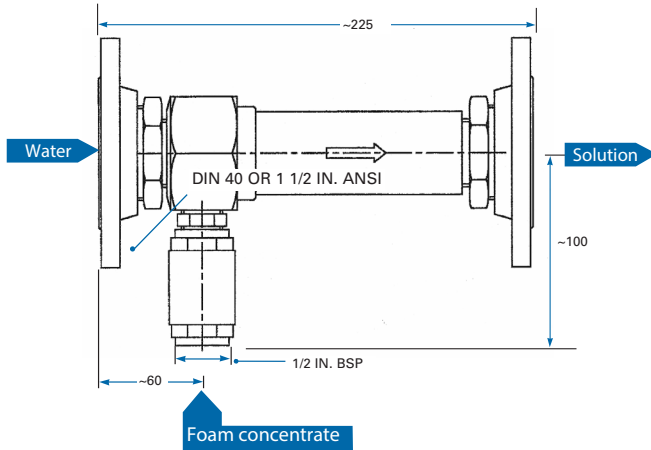
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Ordering Information (Continued)

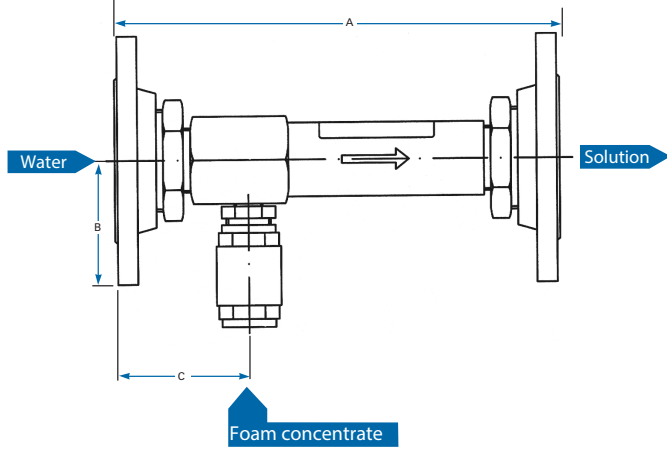
Part No.	Description
121102505	MI-25 F
121102422	MI-25 F 3% or 6%
121102519	MI-25/40 F DIN
121102630	MI-25/40 F ANSI
121102533	MI-25/50 F DIN
121105637	MI-25/50 F ANSI
121102512	MI-25/F 2 in. BSP male
121102402	MI-25/P, complete with suction hose and tube, > in., 1.5 m
121304100	MI-40 F BSP
121304103	MI-40 F DIN
121304105	MI-40 F DIN 3% to 6%
121304201	MI-40 F ANSI
121304204	MI-40 F ANSI 3% to 6 %
121304802	MI-40 P FC/T 1 in. 1.5 m

Part No.	Description
121304107	MI-50 F DIN
121304110	MI-50 F DIN 3% to 6%
121304205	MI-50 F ANSI
121304207	MI-50 F ANSI 3% to 6%
121304114	MI-65 F DIN
121304128	MI-65 F DIN 3% to 6%
121304212	MI-65 F ANSI
121304226	MI-65 F ANSI 3% to 6%
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

MI-25 / 40



MI-50 / 65



For dimensions A, B, and C, see Performance Data

E000499 / E000500

Performance Data

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

	MI-25	MI-25/40	MI-40	MI-50	MI-65
Connection: Water	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
Connection: Foam	Female 1/2 in. BSP	Female 1/2 in. BSP	Female 1 in. BSP	Female 1 in. BSP	Female 1 in. BSP
Weight	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)
Material: Body	Brass	Brass	Brass	Brass	Brass
Material: Flange	Galvanized steel	Galvanized steel	Galvanized steel	Galvanized steel	Galvanized steel
Included	Foam concentrate check valve	Foam concentrate check valve	Foam concentrate check valve	Foam concentrate check valve	Foam concentrate check valve
Optional	Foam concentrate suction hose	Foam concentrate suction hose	Foam concentrate suction hose	Foam concentrate suction hose	Foam concentrate suction hose
Dimension A approx.	-	-	218 mm (8.6 in.)	330 mm (13.0 in.)	330 mm (13.0 in.)
Dimension B approx.	-	-	123 mm (4.8 in.)	123 mm (4.8 in.)	123 mm (4.8 in.)
Dimension C approx.	-	-	43 mm (1.7 in.)	100 mm (3.9 in.)	100 mm (3.9 in.)

1 bar = 0.1 MPa = 14.5 psi