In-line Inductor MI-80, 100, 150

General Description

The function of the stationary in-line inductor is to inject foam agent into a water stream. The inductor is designed to handle high counter pressures, allowing a long distance from the injection point to foam applicator.

Application Description

An in-line inductor is designed for use in fixed flow foam systems such as low, medium and high expansion foam systems, water/foam deluge 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 5.0 bar to 12,000 Lpm at 16 bar inlet pressure
- Replaceable internal parts for future system changes
- Suction height up to 3.5 m
- Installation in any vertical/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

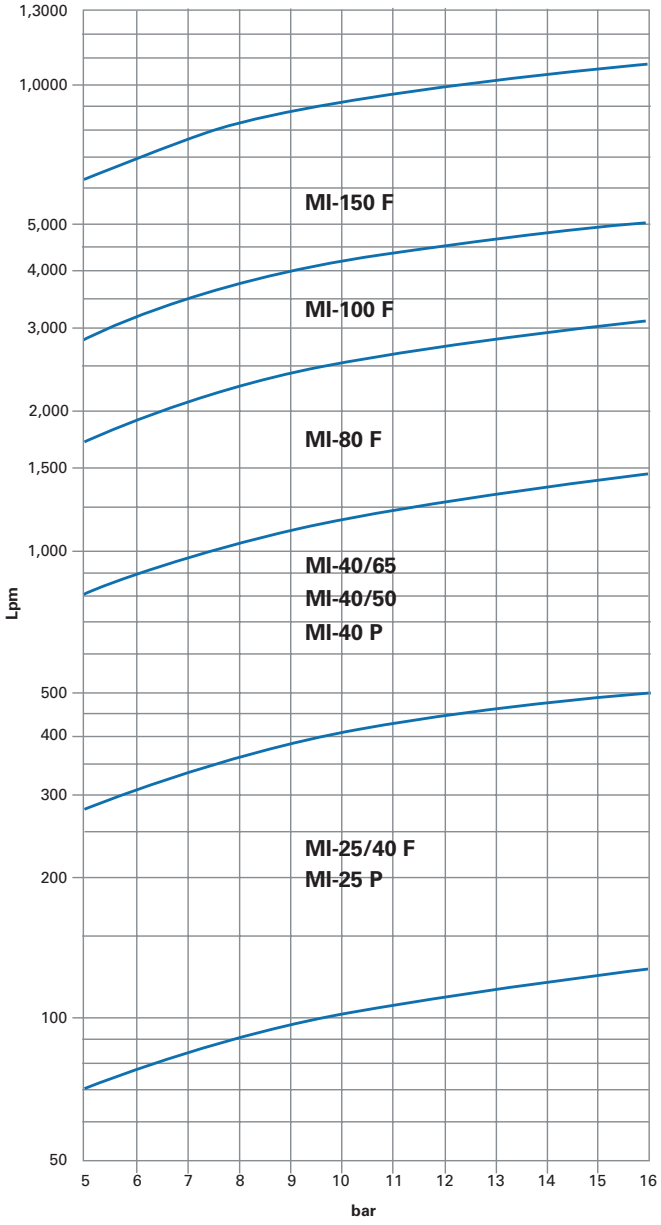
Optional Components

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

Listings or Approvals

- Russian Maritime Register of Shipping (RMRS)

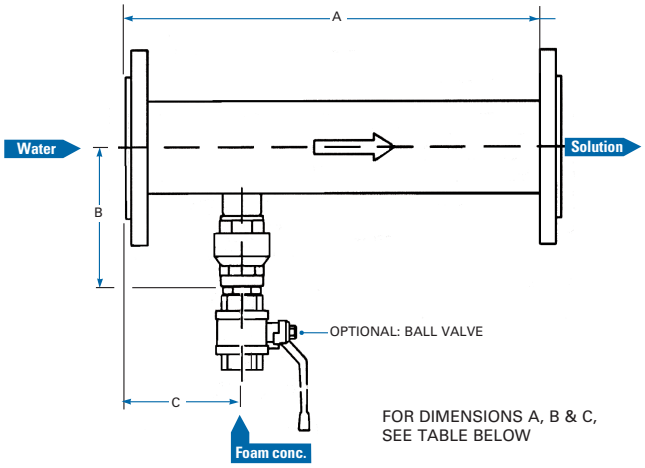
Capacity Range for In-line Inductors



tyco Fire Protection Products

Tyco Park / Grimshaw Lane / Newton Heath / Manchester / M40 2WL
Tel: +44 (0) 161 259 4000 / www.tfppemea.com

MI-80 F/100 F/150 F



Performance Data

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

Working pressure ..... Max. 16 bar (232 psi)
Proportioning ..... Max 6%
Approximate Pressure Drop ..... 30% of inlet pressure (3%)
35% of inlet pressure (6%)

Ordering Information

1. Part number
2. Flow (Lpm)
3. Pressure (bar)
4. 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 1/14 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 @ 16 bar	1% to 3%	Maximum 3,150 Lpm (832 gal)	Maximum 5,100 Lpm (1,347 gal)	Maximum 12,500 Lpm (3,300 gal)
	6%	Maximum 2,600 Lpm (686 gal)	Maximum 5,000 Lpm (1,320 gal)	Maximum 12,000 Lpm (3,170 gal)
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	Female 1 1/4 in. BSP Up to 300 Lpm	Female 2 in. BSP up to 720 Lpm
Dimensions (approx.)	A	312 mm	490 mm	565 mm
	B	1 in. 145	1 1/4 in. 157	2 in. 203
	C	84	130	136
Weight		10 kg (29 lb)	19 kg (38 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 conc. 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