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

<table>
<thead>
<tr>
<th>Lpm</th>
<th>50</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>600</th>
<th>1,000</th>
<th>1,500</th>
<th>2,000</th>
<th>3,000</th>
<th>4,000</th>
<th>5,000</th>
<th>6,000</th>
<th>7,000</th>
<th>8,000</th>
<th>9,000</th>
<th>10,000</th>
<th>11,000</th>
<th>12,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>bar</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tyco Park / Grimshaw Lane / Newton Heath / Manchester / M40 2WL
Tel: +44 (0) 161 259 4000 / www.tfppeMEA.com
Copyright © 2016 Tyco Fire Products LP. All rights reserved. / FDS-2016045
### MI-80 F/100 F/150 F

**Diagram:**
- **Water** enters the system.
- **Foam concentrate** and **Solution** are combined.
- Optional **Ball Valve** indicated.

**Dimensions (approx.):**
- **A:** 312 mm, 490 mm, 565 mm
- **B:** 1 in, 1 1/4 in, 2 in
- **C:** 84, 130, 136 mm

**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

---

### 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%)

### Technical Data

<table>
<thead>
<tr>
<th></th>
<th>MI-80 F</th>
<th>MI-100 F</th>
<th>MI-150 F</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total capacity @ 16 bar</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1% to 3%</td>
<td>Maximum 3,150 Lpm (832 gal)</td>
<td>Maximum 5,100 Lpm (1,347 gal)</td>
<td>Maximum 12,500 Lpm (3,300 gal)</td>
</tr>
<tr>
<td>6%</td>
<td>Maximum 2,600 Lpm (686 gal)</td>
<td>Maximum 5,000 Lpm (1,320 gal)</td>
<td>Maximum 12,000 Lpm (3,170 gal)</td>
</tr>
<tr>
<td><strong>Connection</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>80 DIN PN 16 or 3 in. ANSI 150 lb</td>
<td>100 DIN PN 16 fit for 4 in. ANSI 150 lb</td>
<td>150 DIN PN 16 fit for 6 in. ANSI 150 lb</td>
</tr>
<tr>
<td>Foam</td>
<td>Female 1 in. BSP Up to 156 Lpm</td>
<td>Female 1 1/4 in. BSP Up to 300 Lpm</td>
<td>Female 2 in. BSP up to 720 Lpm</td>
</tr>
<tr>
<td><strong>Dimensions (approx.)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>312 mm</td>
<td>490 mm</td>
<td>565 mm</td>
</tr>
<tr>
<td>B</td>
<td>1 in. 145</td>
<td>1 1/4 in. 157</td>
<td>2 in. 203</td>
</tr>
<tr>
<td>C</td>
<td>84</td>
<td>130</td>
<td>136</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>10 kg (29 lb)</td>
<td>19 kg (38 lb)</td>
<td>28 kg (62 lb)</td>
</tr>
</tbody>
</table>

---

### Ordering Information

1. **Part number**
2. **Flow (Lpm)**
3. **Pressure (bar)**
4. **Induction rate (%)**

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

---

SKUM and the product names listed in this material are marks and/or registered marks. Unauthorized use is strictly prohibited.

---

1 bar = 0.1 MPa = 14.5 psi

---

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