Around the Pump Inductor PI

General Description

The Around-the-Pump Inductor is a foam concentrate proportioning unit designed for connection in a by-pass between the pressure and suction side of the fire water pump. This system diverts a small part of the feed water flow through the PI, with a negligible effect on the fire water line pressure. The proportioner inducts a rich solution which becomes the required proportion in the main stream.

Commonly used in marine applications, Around-the-Pump Inductors are also used on specialised foam trucks or fixed systems where a dedicated water pump is available.

The water suction line shall not be connected to a pressurized source, such as a municipal water line. If so, a buffer tank must be installed between the pressurized source and the pump.

Product Features

- Manufactured using corrosion resistant materials
- Factory calibrated flow and pressure settings
- Can be set to selected flows anywhere within the PI range
- Virtually no pressure drop effect
- Cost effective, value added solution
- High quality and high reliability
- Horizontal or vertical installation
- Integrated suction check valve and regulating valve
- PI series ranges from 100 Lpm to 22,500 Lpm system capacity and 1 Lpm to 680 Lpm foam liquid suction capacity
- Available in dual induction percentage, for example 3% and 6%
- Adjustable percentage induction

Connections

Water/foam inlet: flanged to fit DIN PN16 or ANSI 150 lb or screw threaded BSP.

Listings and Approvals

- Russian Maritime Register of Shipping (RMRS)
- Tanusitvany (Hungary)

Ordering Information

Specify the following information when ordering:

- Part number
- Foam induction %
- Total system flow
- Pressure

Part Number	Description
122102105	PI-25
122106106	PI-65 DIN
122106203	PI-65 ANSI
122210123	PI-100 DIN
122210172	PI-100 ANSI

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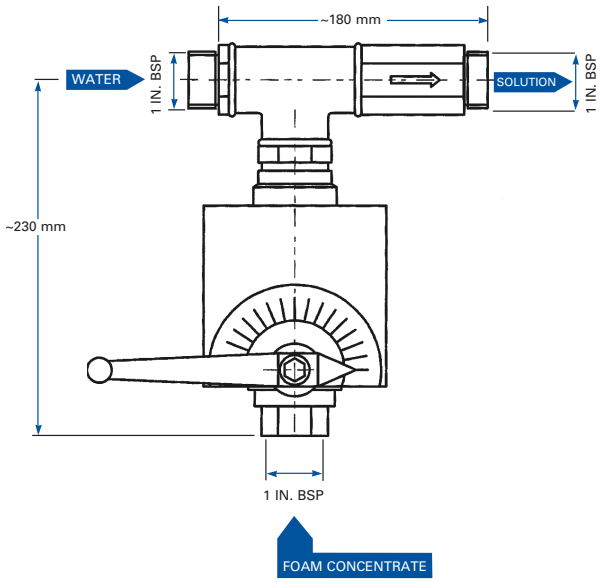
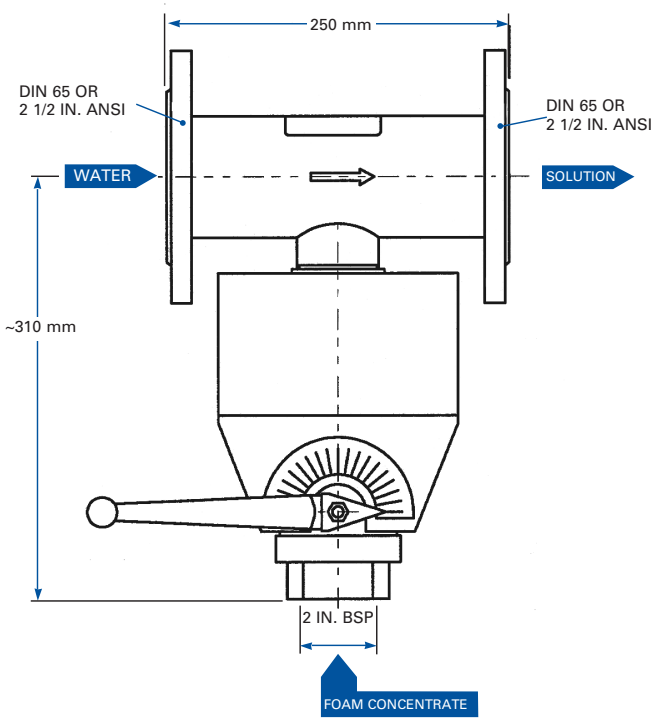
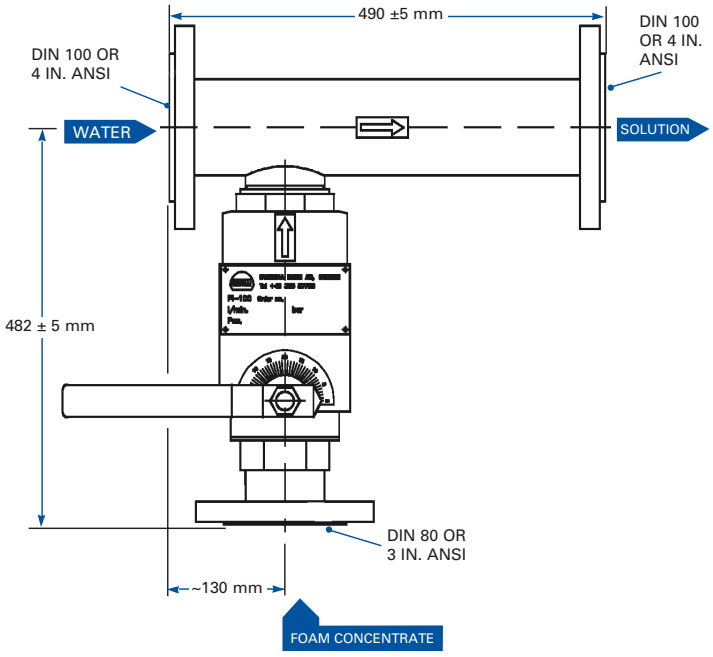
PI-25

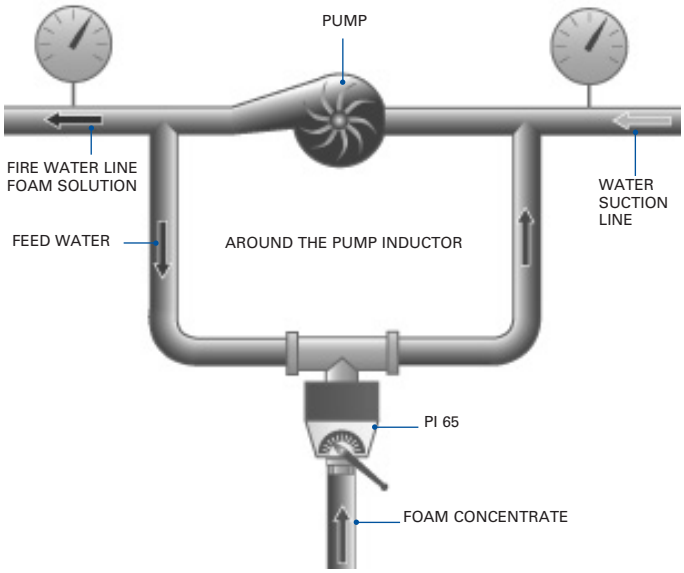


PI-65



PI-100





*Maximum pressure in water suction line is 0.5 bar. If higher, a buffer tank must be installed.

Performance Data

PI-25

Feed water capacity				Maximum induction capacity	
bar	psi	Lpm	US gpm	Lpm	US gpm
6	87	76	20	65	17
8	116	88	23	65	17
10	145	98	26	65	17
12	174	107	28	65	17

PI-65

Feed water capacity				Maximum induction capacity	
bar	psi	Lpm	US gpm	Lpm	US gpm
6	87	230	61	255	67
8	116	267	71	255	67
10	145	300	79	255	67
12	174	327	86	255	67

PI-100

Feed water capacity				Maximum induction capacity	
bar	psi	Lpm	US gpm	Lpm	US gpm
6	87	620	164	680	180
8	116	720	190	680	180
10	145	800	233	680	180
12	174	880	233	680	180

Specifications

PI-25

Maximum counter pressure	0.5 bar (7.2 psi)
Maximum working pressure	16 bar (232 psi)
Minimum working pressure	4 bar (58 psi)
Connection: Water	Male 1 in. BSP
Connection: Foam concentrate	Female 1 in. BSP
Weight	3 kg (6.6 lb)
Material: Inductor	Brass
Material: Foam concentrate valve	Brass

PI-65

Maximum counter pressure	0.5 bar (7.2 psi)
Maximum working pressure	16 bar (232 psi)
Minimum working pressure	4 bar (58 psi)
Connection: Water	65 DIN PN 16 or 2 1/2 in. ANSI 150 lb
Connection: Foam concentrate	Female 2 in. BSP or Male 2 in. NPT
Weight	14 kg (31 lb)
Material: Body	Stainless steel
Material: Nozzle, diffuser	Polypropylene
Material: Valve, check valve	Brass

PI-100

Maximum counter pressure	0.5 bar (7.2 psi)
Maximum working pressure	16 bar (232 psi)
Minimum working pressure	4 bar (58 psi)
Connection: Water	100 DIN PN 16 or 4 in. ANSI 150 lb
Connection: Foam concentrate	80 DIN PN 16 or 3 in. ANSI 150 lb
Weight	45 kg (99 lb)
Material: Body	Stainless steel
Material: Nozzle, diffuser	Polypropylene
Material: Valve, check valve	Stainless steel
Flange	Galvanized steel

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.