

AIR FOAM PROPORTIONERS (IN-LINE INDUCTORS)

VARIABLE AND FIXED TYPE

Special Features

- UL Listed
- IFP-II-400(V) having metering check valve to adjust foam induction/proportion rate at 3% & 6%.
- For fixed installation having fixed orifice of foam induction/proportion rate at 6%.
- Suitable for use with all foam concentrates.
- Designed to minimum pressure loss across the inductor
- Simple to operate
- Minimal maintenance
- Corrosion resistant



Description

Air Foam Proportioners/ Inline Inductors are venturi devices that introduce Foam concentrate into a flowing stream of water at a controlled rate. The rate of solution flow from the device is related to the inlet pressure of proportioner. In addition to water pressure, handline proportioner/inline inductors are sensitive to back pressure. Back pressure is the amount of pressure required down stream of the proportioner to discharge the total foam solution flow. The total allowable back pressure on the discharge side of the handline proportioner/inline inductors should not exceed 65% of the water inlet pressure. When using handline proportioners/ inline inductors as portable devices a pick-up tube is provided to draw foam concentrate from the portable foam containers. Two different models are :

IFP-II-400(V) – Portable inline Inductor with Variable Proportioning at 3% & 6%

IFP-II-400(F) –Inline Inductor with Fixed Proportioning at 6%.

Applications

IFP Air Foam Proportioners/ Inline Inductors are designed for hose line applications and matched to specific Nozzle/Nozzles. It is not recommended/suitable to operate over a range of flows or pressures. IFP-II- 400 (F) is not recommended for application using sprinklers or other multiple small orifice discharge devices which could increase the allowable back pressure sufficiently to cause proportioning failure.

- Once the Inline Inductors are installed properly, no further attention are required during operation except, for ensuring the required supply of foam concentrate time to time.
- Hose sizes can be varied to increase the distance between inductor and foam maker.
- Relay operation may be used when it is necessary to move foam to longer distance or to allow application from elevated master stream.
- Designed for application with Mobile Foam Unit in combination with UL Listed Foam Hose Stream Nozzle (Low Expansion Branch Pipe) Model IFP-LX-400 (J) / (S).

Specifications

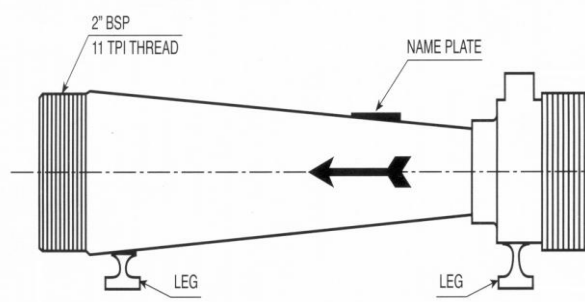
IFP Air Foam Proportioners/ Inline Inductors are a venturi type proportioning device designed to inject foam concentrate into the waterstream at a controlled rate of either 3% or 6%. The Inline Inductors (Proportioners) designed to operate with an inlet pressure upto 15.5Kg/cm (221 psi) and the total back pressure not exceed 65% of the inlet pressure. The orifice is factory set for 6% foam injection at the designed flow for fixed type inductor Model IFP-II-400 (F). Metering valve supplied in lieu of the fixed orifice, thereby providing field adjustable proportioning at 3% & 6% for portable Air Foam Proportioner/ Inline Inductor Model IFP-II-400 (V). A Pick-up tube is provided for Model No. IFP-II-400(V) to draw foam concentrate from the portable foam container.

Materials of Construction

| | Material |
|----------------------|---|
| Model | IFP II 400(V), IFP II 400(F) |
| Body/ shell | Bronze |
| Diffusor | Gun Metal |
| Injector | SS316 |
| Metering Check Valve | SS304 |
| Valve Connector | Brass (Chrome Plated) |
| Orifice | Brass (Chrome Plated) |
| Pick-Up Tube | Plastic Flexible Tube with Spiral Reinforcement |
| Extension Tube | Stainless Steel |
| Strainer | Stainless Steel |

Technical Data ($\pm 5\%$)

| Model | IFP II 400(V) | IFP II 400(F) |
|---|-------------------------------------|---------------------------------|
| Type | Variable | Fixed |
| Part Number | 404021 | 404022 |
| Inlet Pressure, bar (psi) | 13.5-15.5 (192-221) | 15.5 (221) |
| Water Flow, lpm (gpm) | 340-360 (90-95) | 360 (95) |
| Proportioning | 3% and 6% with metering check valve | 6% |
| Inlet and Outlet size, mm (inch) | 59.6(2), 11 TPI Thread | 59.6(2), 11 TPI Thread |
| Inlet and Outlet Connections, mm (inch) | 63 (2.5) BI Coupling (optional) | 63 (2.5) BI Coupling (optional) |
| Hose Size, mm (inch) | 63-70 (2.5-2.75) | 63-70 (2.5-2.75) |
| Hose Length mm (inch) | 280(11) | 280(11) |



Ordering Information

| Part Number | Model | Colour | Weight (kg) |
|-------------|---------------|------------|-------------|
| 404021 | IFP II 400(V) | Red/Yellow | 8 |
| 404022 | IFP II 400(F) | Red/Yellow | 8 |

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