



**DELTA
FIRE**



FIXED INLINE INDUCTORS

KEY USERS

- Petrochemicals
- Fuel Storage Sites
- Oil & Gas
- Marine
- Major Industrials
- Aviation
- Chemical Facilities
- Nuclear

KEY FACTS

- Manufactured in the UK
- ISO9001 Quality Controlled
- Reliable, Economic Foam Proportioning
- Flow Engineered to suit Client
- 316 Stainless Steel or Painted Carbon Steel
- Flows from 50 litres/min to 14,000 litres/min
- Fixed or Variable Pick-Up



DFI-100 Fixed In-Line Inductor

Doc Ref: DDS002



DELTA FIRE

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GENERAL DESCRIPTION

Manufactured in the UK under an ISO 9001 Quality Management System the Delta Fire DFI Series of Fixed Inline Inductors are flow engineered to meet the specific requirements of the client. Designed to accurately proportion foam concentrate into a pressurised water supply providing an economic means of proportioning for systems requiring a fixed flow rate.

Each Inductor is factory calibrated to match the system flow pressure requirements. The proportioning rates can be accurately set at between 1% and 6%. Up to 65% of the inlet pressure is available to supply the downstream foam discharge devices and overcome pressure loss. Operating Pressure Range is between 3.5 bar and 16 bar.

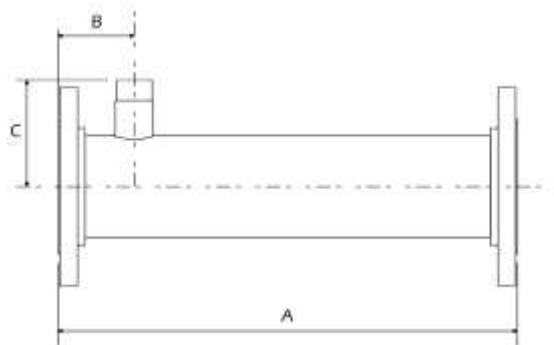
Manufactured from high quality materials the DFI-Series of Fixed In-Line Inductors are incredibly durable and designed to provide many years trouble free use with minimal maintenance. Precision engineering and rigorous multi-stage quality controls ensures the very best of British manufacturing and excellent long-term value for money. The Delta DFI-Series is widely used by Major Operators across multiple industry sectors around the world and has an enviable reputation for reliability and performance in the most demanding of environments.

THE RANGE

The DFI Series comprises seven basic models with flow rates from 50 to 14,000 litres per minute (13 to 3,698 US gallons).

Models DFI-40 and DFI-50 are supplied as standard with BSP Male threaded connections but optional NPT threaded connections or flanged connections are available on request.

Models DFI-65 through to DFI-200 are supplied as standard with ASA Raised Face Flanges but optional PN16 Flanges are available on request.



Product Code	FEF901026	FEF912852	FEF921023	FEF932325	FEF944226	FEF954343	FEF964516
Model	DFI-40	DFI-50	DFI-65	DFI-80	DFI-100	DFI-150	DFI-200
Dim A	175	310	360	465	532	690	900
Dim B	50	72	76	80	90	102	150
Dim C	65	65	80	105	125	145	190
Foam Inlet	1" BSP male	1" BSP male	1¼" BSP male	1¼" BSP male	1½" BSP male	2" BSP male	2" BSP male
Connection Inlet Outlet	1½" BSP male	2" BSP male	2½" ASA RF Flange	3" ASA RF Flange	4" ASA RF Flange	6" ASA RF Flange	8" ASA RF Flange
Flow range L/Min	50 to 400	150 to 600	300 to 1400	600 to 2000	1000 to 4000	2000 to 8000	4000 to 14000
Flow Range USG/Min	13 to 106	40 to 159	79 to 370	159 to 528	264 to 1057	528 to 2113	1057 to 3698



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MODEL SELECTION

Every DFI-Series Fixed In-Line Inductor is bespoke manufactured by Delta Fire in the UK and flow engineered to suit the specific application requirements of the system into which it is being fitted. To achieve optimum performance from your Inductor it is important to ensure the correct model/size is selected. This can be achieved by careful assessment of the following factors:

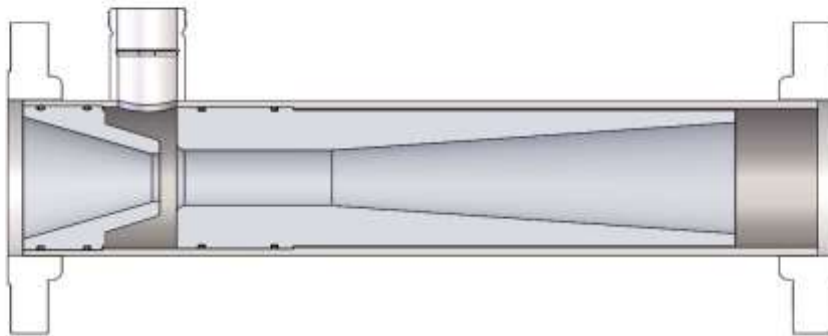
1. Required flow rate for system compatibility
2. Calculated system pressure at inlet of inductor
3. Connectivity requirements to existing pipework (flanged or threaded)
4. Preferred material of construction (316 stainless steel or painted carbon steel)
5. Ambient temperature at designated site of installation
6. Type of foam concentrate to be used
7. Induction rate requirements of foam concentrate
8. Foam concentrate pick-up tube length required
9. Required 'lift' of foam concentrate

INSTALLATION GUIDENCE

The Delta DFI-Series of Fixed Inductors are designed for in-line installation in new or existing pipeline assemblies within a fixed foam firefighting system. It is essential to ensure the Inductor is fitted in a straight run of pipework and not in close proximity to any bends which will result in turbulent fluid flow and subsequent failure to induct the foam concentrate.

Internal surfaces of connecting pipework should be checked to ensure they are smooth to ensure free, unfettered fluid flow. Any valves within the stream should be full bore and free from restrictions such as filters or strainers.

All connections and gaskets should be fitted by a trained operative to ensure secure, leak-free installation.



Delta Fire has more than 25 years industry experience in the design, manufacture and engineering of fixed in-line foam inductors and are proud to supply them to major industries around the world. The Delta Team boasts an accumulated wealth of industry knowledge and expertise offering both on and off-site technical support to their customers throughout the installation process.



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