

Fixed System Line Proportioner

Description

ORION BFP Series fixed system line proportioners are manufactured in gunmetal and are designed for use in large flow fixed foam systems. The proportioners are made to suit specific customer flow requirements in the range of 2,000 lpm to 10,000 lpm. These units are also available in nickel aluminium bronze. An equivalent 316L stainless steel product is also available.

Design

Line proportioners are used in fixed foam systems where the operating pressure and system flow are well known. A line proportioner is designed and built for one specific flow and pressure condition. If the conditions at the line proportioner vary appreciably from the design conditions the proportioner may stop working completely. All line proportioners are designed for a minimum pressure differential between inlet and outlet of 35% of the inlet pressure. If this minimum pressure differential is not maintained the proportioner will not work correctly.



When ordering line proportioners it is necessary to specify the flow rate and operating pressure at the proportioner inlet as well as the type of foam concentrate and the proportioning rate. The proportioning accuracy for line proportioners is typically $\pm 0.3\%$ of the design concentration.

Keep the foam concentrate piping at least the same size as the proportioner inlet. For high viscosity concentrates, we can design the foam concentrate piping for correct operation. Talk to us early.

The diffuser of the proportioners may vary in design from the photo above.

Read our Line Proportioner System Design Guide.

ORION FIRE ENGINEERING PTY LIMITED

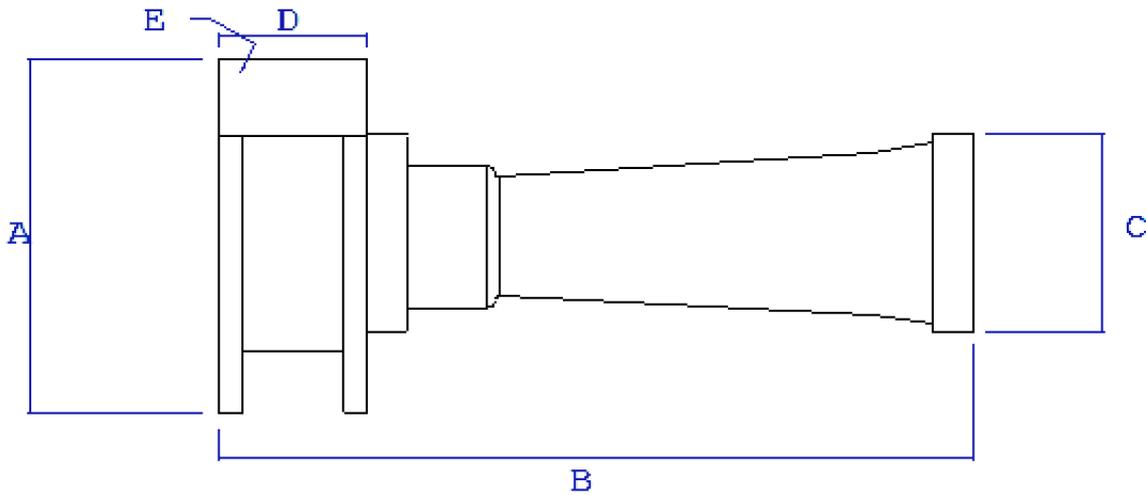
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Models

Model #	K-Factor Range *	Body Size
BFP-100	63 - 163	100mm (ASME #150)
BFP-150	100 - 250	150mm (ASME #150)

*K-Factor in lpm-kPa units

Dimensions

	BFP-100	BFP-150
A:	160mm	212mm
B:	380mm	540mm
C:	100mm	152mm
D:	75mm	85mm
E:	40mm NPT Female	50mm NPT Female

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