

Foam Proportioning



Fire Engineering
Pty Limited

Fixed System Line Proportioners

Description

ORION PR Series fixed system line proportioners are manufactured in gunmetal and are designed for use in fixed foam systems. The proportioners are made to suit specific customer flow requirements in the range of 600 LPM to 3000 LPM for the 65mm and 80mm sizes.

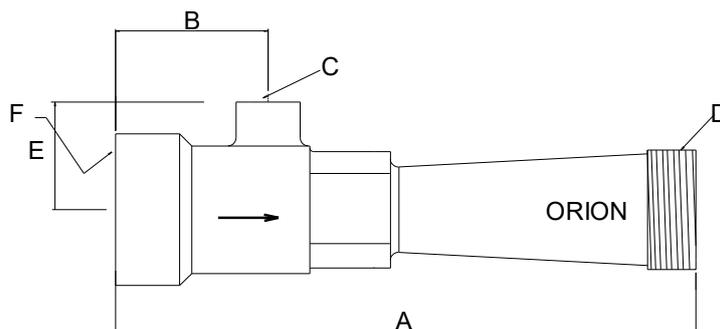


Design Consideration

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 specify the flow rate and operating pressure at the proportioner as well as the type of foam concentrate and the proportioning rate. These proportioners are also available in nickel aluminium bronze.

We also have 25mm, 40mm, 50mm 100mm and 150mm models and can custom build larger units.



ORION FIRE ENGINEERING PTY LIMITED

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Dimensions

	65mm Body:	80mm Body
A:	350mm	405mm
B:	95mm	105mm
C:	25mm BSP Female	32mm BSP Female
D:	65mm BSP Male	80mm BSP Male
E:	67.5mm	71.5mm
F:	65mm BSP Female	80mm BSP Female
Weight:	6kg	8kg
Recommended	Min 18	77
K-Factors (lpm-kPa)	Max 81	122

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.

Read our Line Proportioner System Design Guide.

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