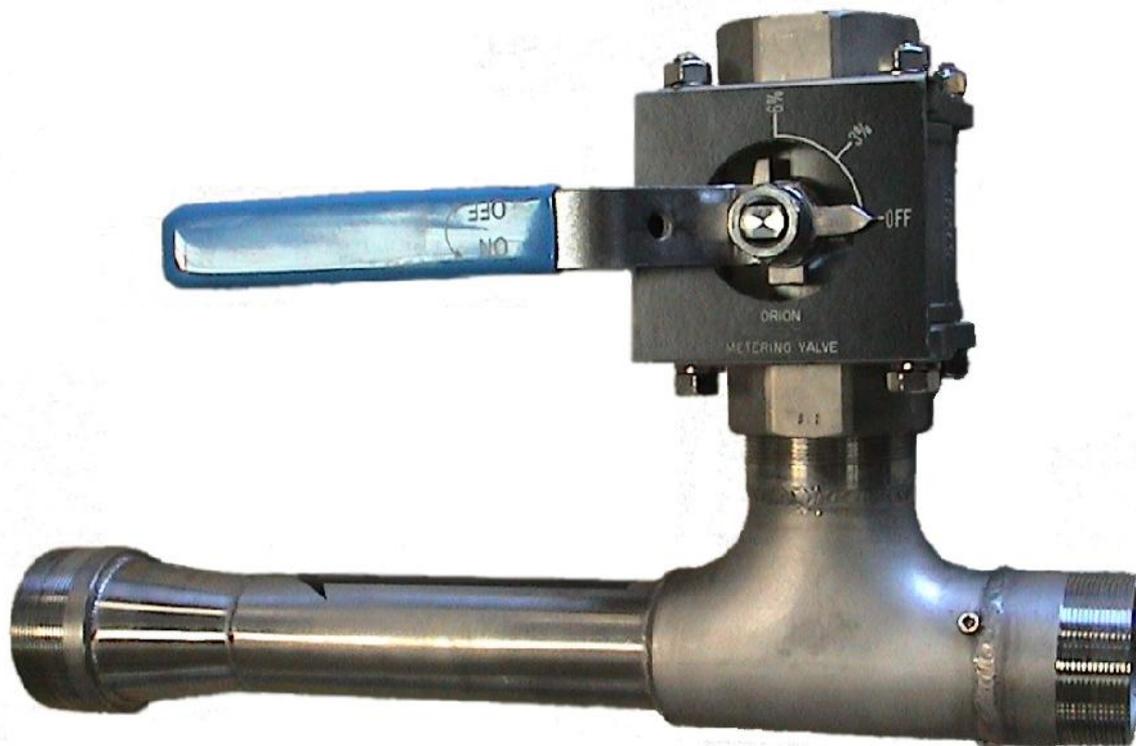


# Foam Proportioning

## Around the Pump Proportioners



### Description

ORION APP Series variable Around-the-Pump Proportioners are manufactured in Australia and are designed for a wide range of applications.

For the APP series Around-the-Pump proportioners variable proportioning is achieved by using a metering valve which allows a range of foam concentrate flow rates to be selected, or the units may be made with a pre-set flow rate. These proportioners have a check valve in the foam concentrate line.

All around the pump proportioners are designed for a pressure of less than 50 kPa at the outlet. As with line proportioners this type of proportioner has restrictions to its use. They must be used in systems where the flow rate is known so that the foam concentrate flow rate can be calculated.

### Construction

Body and fittings: 316 stainless steel  
Jet: High-density polyethylene

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## ORION FIRE ENGINEERING PTY LIMITED

ABN 80 002 538 696

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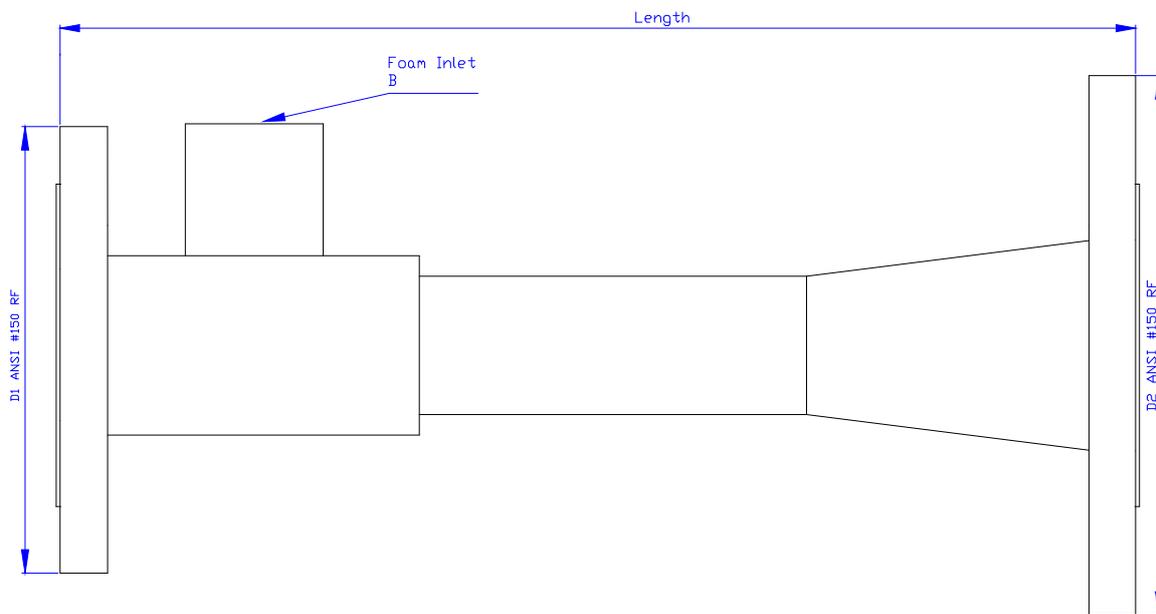
Tel (61) 2 9426 7900 FAX (61) 2 8783 5400

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## Models

Model #	Foam Concentrate	Inlet Flange	Outlet Flange	Foam Inlet mm BSP	Length
	Flow Range	'D1'	'D2'	'B'	
APP-80	0 - 400 lpm	50mm	80mm	50mm	515mm
APP-100	0 - 600 lpm	65mm	100mm	65mm	590mm
APP-125	0 - 900 lpm	80mm	125mm	80mm	680mm
APP-150	0 - 1300 lpm	100mm	150mm	100mm	750mm

Threaded connections are also available



## APP Installation

The APP around the pump proportioner is installed between the discharge side of the pump and the suction side of the pump. For best results the proportioner should be installed with a section of straight pipe of the same nominal size as the proportioner connection and five (5) pipe diameters long on both sides of the proportioner. A strainer should be installed before the straight pipe section.

The bottom of the foam concentrate tank should be no more than 1.5 meters below the proportioner and to avoid accidental loss of foam the top of the tank should be below the proportioner.

The foam concentrate supply pipe should be sized to the same diameter as the proportioner foam inlet. The length of this supply pipe should be kept as short as

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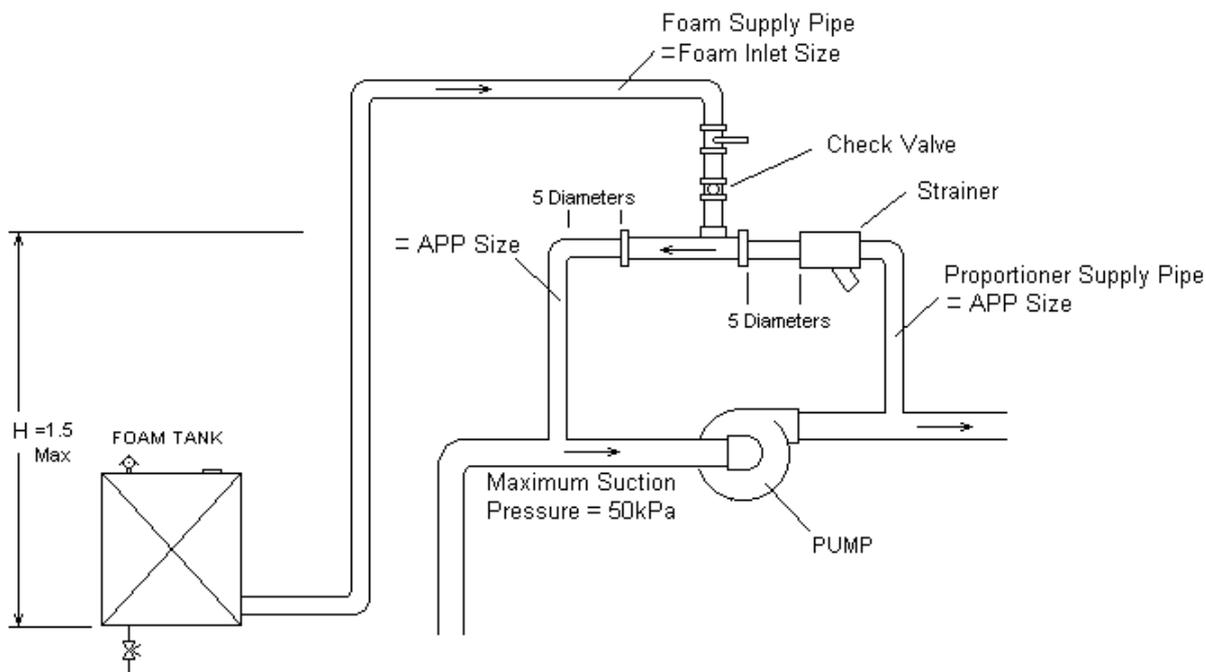
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possible. To avoid foam concentrate contamination a check valve should be fitted in the foam concentrate supply line.

Where the water supply to the proportioner may contain large particles a strainer is recommended five (5) pipe diameters or more before the proportioner



## Trouble Shooting

Problem:

Proportioning rate low:

Possible Causes

Pump suction pressure above 50 kPa

Blocked strainer

Obstruction in foam concentrate line

Foam concentrate pipe is too long or under sized

Foam tank elevation too far below proportioner

## Other Orion Proportioners

Portable Line Proportioners

Fixed System Proportioners

Balanced Pressure Proportioners

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