

Balance Valves

Angus Balanced Pressure Foam Proportioners (BPPs)

- Reliable
- Cost-effective
- Modular construction



For Balanced Pressure Foam Proportioners to perform accurately over a range of flows and pressures, the supply pressure of the foam concentrate entering the proportioner must be balanced with the pressure of water at the inlet. Angus Balance Valves provide a reliable and cost-effective means of achieving this..

Available in three sizes, dependent upon the required foam concentrate flow, they are compatible with the full range of Angus Balanced Pressure Foam Proportioners (BPPs).

A duplex pressure gauge, fitted as standard, gives visual confirmation that the unit is functioning correctly.

In order to select the correct balance valve it is necessary to have full performance details of the concentrate pump. The minimum overpressure the concentrate pump will supply (recommended minimum 1 bar g), at the maximum foam flow, is superimposed on the graph overleaf.

The balance valve curve to the right of the operating point will be the minimum size suitable for the application.

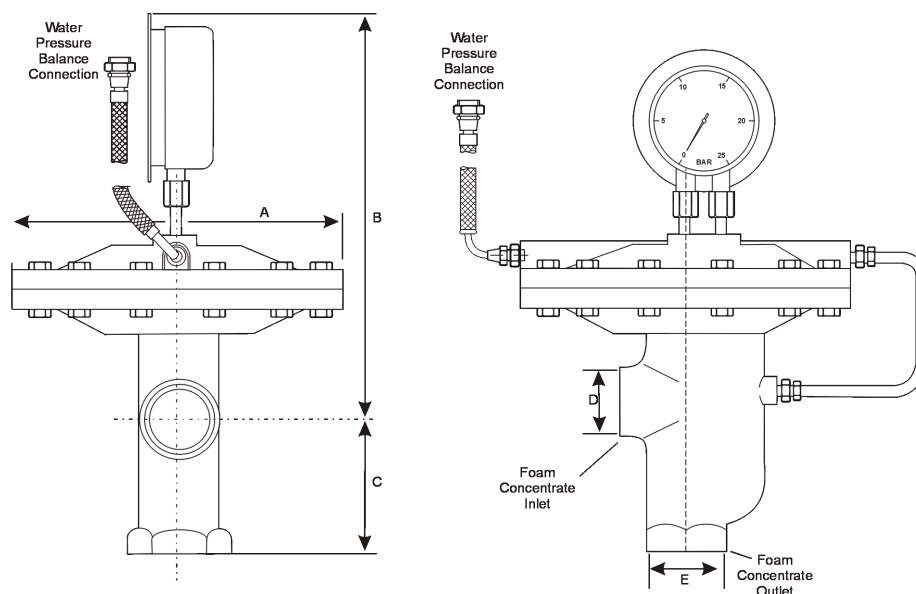
Angus can supply a comprehensive range of fully-compatible foam concentrate pumps.

The modular construction of the Balance Valves and BPPs allow the engineer to select the individual components which are best suited to a particular application. However, Angus can also offer a range of fully-assembled, self-contained skid units comprising BPP, balance valve, foam pump and all necessary ancillary equipment, along with foam concentrate tanks and auxiliary power units - all available in modular form for maximum flexibility. Full details on request.

Also refer to Data Sheet 5042 - Balanced Pressure Foam Proportioners.

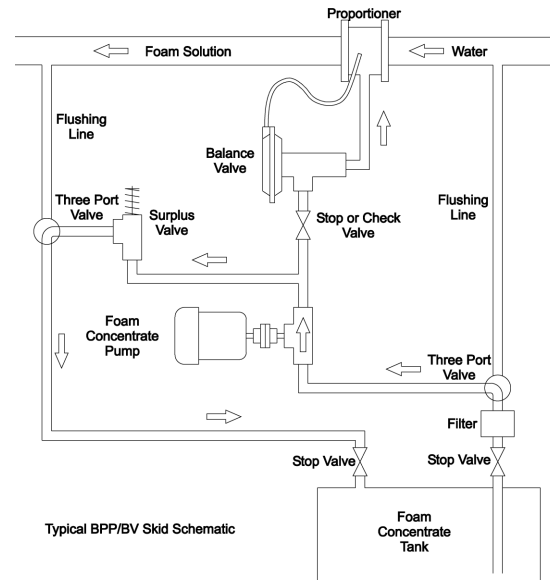
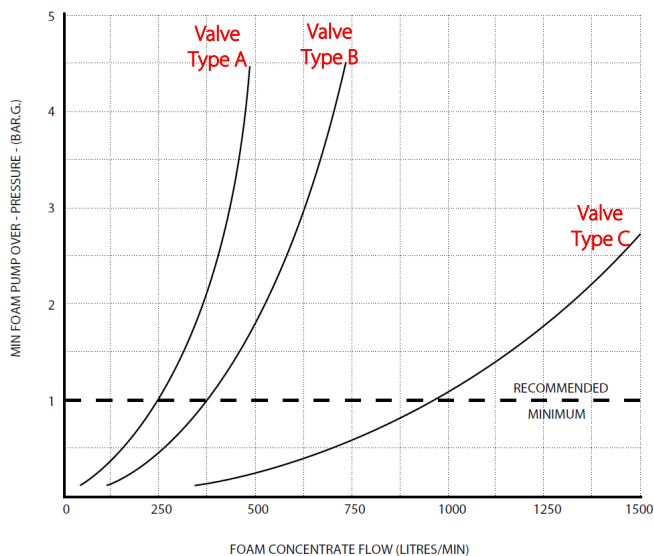
Approvals

Underwriters Laboratories Inc. :
Type A with Model BPP-80
Balanced Pressure Proportioner.



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Valve selection:

Selection of the appropriate valve depends on the operating conditions and is made as follows. Using the graph, locate the operating point of maximum foam concentrate flow rate and minimum overpressure (recommended minimum 1 bar.g). The valves curve to the right of the operating point will be the minimum size suitable for the application.

Dimensions

		TYPE A	TYPE B	TYPE C
Dimension	A (mm)	260 dia.	320 dia.	320 dia.
	B (mm)	300	315	325
	C (mm)	114	130	180
	D (mm)	1½" BSP (F)	2" BSP (F)	3" BSP (F)
	E (mm)	1½" BSP (F)	2" BSP (F)	3" BSP (F)
	Water Pressure Balance Pipe Length (mm)		900	
	Water Pressure Balance Pipe		½" BSP (M)	
	Operating Pressure Range		5 - 18 bar	

Construction

Materials	Body	Gunmetal LG4
	Diaphragm	Neoprene rubber/nylon
	Piston Valve	Stainless steel 316S16
	Water Pressure Balance Pipe	Stainless steel 316S16/PTFE
Finish		Natural
Approx Weight		
		20.5 kg
		38.5 kg
		53 kg

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