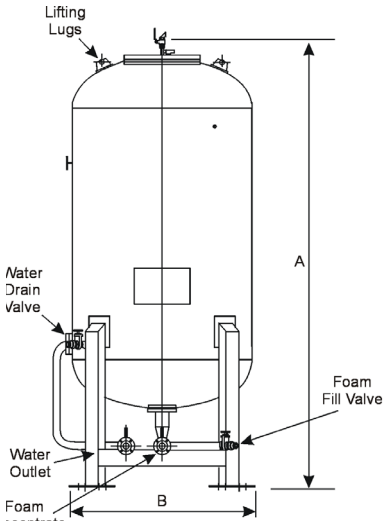
Bag Tank Modules

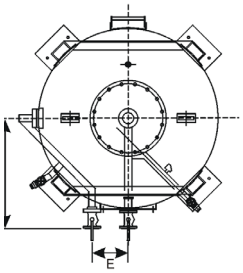
- Designed for use with the BPP range of proportioners
- Simple to install
- Easy to operate
- Low maintenance

Angus Bag Tank Modules are designed for use with the BPP range of proportioners to balance the foam concentrate supply with the fire main water pressure at the inlet..

Available in five sizes - 450,1125, 2250, 3375 and 4500 litres capacity - the Bag Tank Module is supplied as a free-standing pressure vessel with interconnecting pipework terminating at valved connections for water inlet and foam concentrate outlet.

Full compatibility with the BPP range gives the system designer maximum flexibility and cost effectiveness. The proportioner must be specified separately.

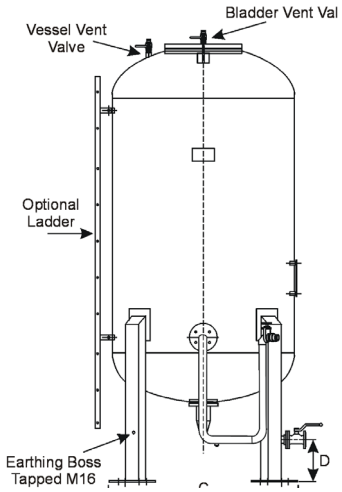




Features include:

- Accurate foam proportioning over a wide range of foam solution demands.
- Self-contained - no external power source required.
- Minimal pressure loss across the proportioner.
- Simple to install and easy to operate.
- Require minimal maintenance.
- Can be refilled during operation.

Also see Data Sheet 5042 - Balanced Pressure Foam Proportioners.



Principle of Operation

The foam concentrate is stored within a reinforced butyl rubber bladder which is fixed inside the steel pressure vessel. When the system is operated, water at fire main pressure enters the tank between the vessel wall and the rubber bag. Foam concentrate is then expelled from the bag into the Balanced Pressure Proportioner.

As water mains pressure is used as the power source, the foam concentrate will always be discharged at the same pressure and any variations in flow will be automatically compensated for. Therefore, provided there is flow across the Venturi creating a low pressure area, induction will always occur.

The BPP may be located up to 3 metres away from the Bag Tank Module, thereby increasing the flexibility when considering installation into the fire main.

Optional extras include:

- Automatic operation
- Sight Glass
- Pour fill
- Standard access Ladder
- Hooped access ladder to BS412 1:1987
- Alternative paint finishes
- Refilling during operation
- Full certification to BS5500:1991 Cat. 2

Bag Tank Modules

Dimensions						
		BAG TANK MODULE CAPACITY (litres)				
		450*	1125*	2250	3375	4500
Dimension	A (mm)	2005	2800	3170	3570	3750
	B (mm)	776	964	1350	1450	1558
	C (mm)	776	964	1350	1450	1558
	D (mm)	345	345	345	345	345
	E (mm)	405	484	303	303	303
	F (mm)	599	684	805	870	925
Approximate Weight Kg (empty)		350	650	1000	1500	2000
Water Inlet Connection		2" RF flange to ANSI B16.5 Class 150				
Foam Concentrate Outlet Connection		2" RF flange to ANSI B16.5 Class 150				
Vessel Water Drain		2½" male instantaneous to BS336				
Foam Concentrate Fill		2½" male instantaneous to BS336				

* It should be noted that on the 450 and 1125 litre capacity models the water inlet locates to the outside of the support leg.

Construction	
Pressure Vessel	Carbon steel welded fabrication. Designed in accordance with design code BS PD 5500: 2003
Internal Bladder	Reinforced butyl rubber
Pipework	Carbon steel
Control Valves	Cast steel bodies with stainless steel balls
Drain/Fill Valves	Brass
Finish	Internal - bitumastic coal tar epoxy. External - zinc rich epoxy primer
Maximum Working Pressure	16 bar.g.
Minimum Working Pressure	4 bar.g.
Test Pressure	22.5 bar.g.
Operating Temperature Range	0°C to 60°C

INTERNATIONAL SALES
Angus Fire Ltd
Angus House, Haddenham Business Park,
Pegasus Way, Haddenham, Aylesbury, HP17 8LB, UK
Tel: +44 (0)1844 293600 • Fax: +44 (0)1844 293664

UK SALES
Angus Fire Ltd
Station Road, Bentham, Lancaster, LA2 7NA, UK
Tel: +44 (0)1524 264000 • Fax: +44 (0)1524 264180

Email: general.enquiries@angusuk.co.uk • Web: www.angusfire.co.uk

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