

High Back Pressure Foam Generator

Series 2

- For use in sub-surface foam injection systems
- Enhanced performance capabilities
- Choice of models

Angus High Back Pressure Foam Generators (HBPGs) are used in sub-surface foam injection systems which are primarily designed for the protection of fixed roof storage tanks containing hydrocarbon fuels.

The Series 2 generators have significantly enhanced performance capabilities and the range has been extended to six models, with foam solution capacities from 225 litres/minute to 3400 litres/minute as shown overleaf.

The materials used in construction fully comply with the international standards accepted by the oil and petrochemical industries.

Using a suitable fuel resistant foam concentrate such as Angus Alcoseal, Petroseal and FP70, aspirated foam with an expansion ratio of between 2:1 and 4:1 can be produced against a back pressure of up to 40% of the inlet pressure. This property enables the foam to overcome the pressure exerted by the head of fuel and downstream pipework friction losses.

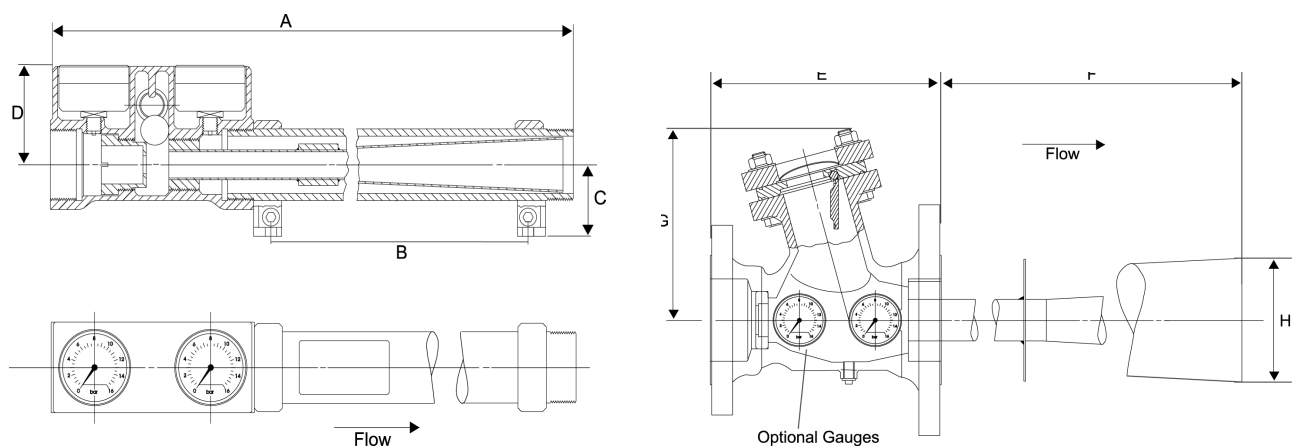
A non-return valve is fitted as standard to ensure that fuel does not escape from the air inlet hole during any stage of operation and also to ensure that full pressure is available immediately after the system is activated.

Two pressure gauges are fitted to the 225, 450 and 900 models to measure foam solution input pressure and system back pressure which facilitates operation in "semi-fixed" installations. Pressure gauges are optional on the 1400, 1900 and 2250 models.

In addition to any valving on the foam line, a bursting disc assembly is normally installed between the HBPG and the tank to ensure safety integrity. The disc is designed to withstand pressure from the tank side, but to rupture when finished foam from the HBPG reaches a pre-determined pressure. A full range of compatible bursting discs and holders is available.

Approvals

Underwriters Laboratories Inc. : HBPG 225, HBPG 1400. For further information on sub-surface foam injection systems, refer to the Angus Foam Systems Engineering Manual.

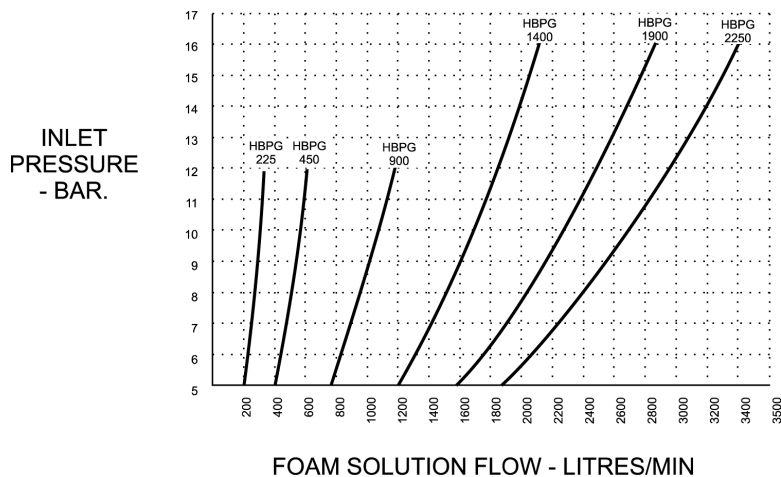


Foamaster

MEX 225U & MEX 450U

| Specification Data | | HBPG | HBPG | HBPG | HBPG | HBPG | HBPG |
|--------------------|------------------------------------|---------------------|------------|------------|---------------------------------------|---------|---------|
| Model | | 225 | 450 | 900 | 1400 | 1900 | 2250 |
| Dimensions | A (mm) | 741 | 750 | 1135 | - | -- | |
| | B (mm)(1) | 505 | 505 | 645 | - | -- | |
| | C (mm) | 60 | 60 | 85 | - | -- | |
| | D (mm) | 83 | 83 | 106 | - | -- | |
| | E (mm) | - | - | - | 280 | 280 | 280 |
| | F (mm) | - | - | - | 1292 | 1283 | 1275 |
| | G (mm) | - | - | - | 240 | 240 | 240 |
| | H (mm) | - | - | - | 150dia. | 150dia. | 150dia. |
| Inlet Connection | | 2" BSP (F) | 2" BSP (F) | 3" BSP (F) | 4" RF Flange to ANSI B 16.5 class 150 | | |
| Outlet Connection | | 2" BSP (M) | 2" BSP (M) | 3" BSP (M) | 6" RF Flange to ANSI B 16.5 class 150 | | |
| Materials | Body | S.G. Iron -420-12 | | | Cast Steel to ASTM A216 WCB | | |
| | Barrel | Galvanised Steel | | | - | - | - |
| | Nozzle | Acetate | | | 316 Stainless Steel | | |
| | Improver | 316 Stainless Steel | | | | | |
| Finish | Yellow thermoplastic powder coated | | | | | | |
| Weight (Approx) | | 10.0 Kg. | 10.0 Kg. | 22.5 Kg. | 40.0 Kg. | | |

(1) Maximum dimension. Feet are adjustable.



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