

Full Surface Pourer FSP 100 & FSP 150

- Used with floating roof tanks of a diameter greater 60m
- Designed to deliver foam to the entire tank surface
- Live fire tested
- Low profile



Floating roof storage tanks are some of the safest in the world and may provide many years of use. In normal conditions the risk of fire is generally confined to the seal area but wear and tear of the seals can allow them to become contaminated with fuel.

In the event of an ignition source, such as burning embers or a lightning strike, a rimseal fire may occur and the normal fire-fighting systems for floating roof tanks such as the Angus Rimseal Pourers are highly effective in flooding the seal area between the tank wall and the foam dam installed on the roof.

However, when the full surface area of the tank is exposed to atmosphere e.g. when the roof sinks, any fire will engulf the whole tank surface. Rimseal fire protection is not designed to deal with this scale and type of fire and a large flow system will then be needed to provide foam at a suitable application rate.

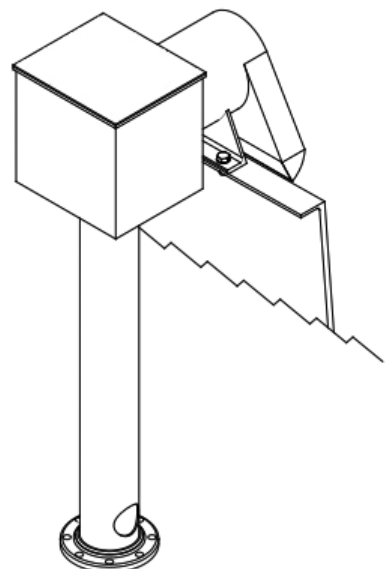
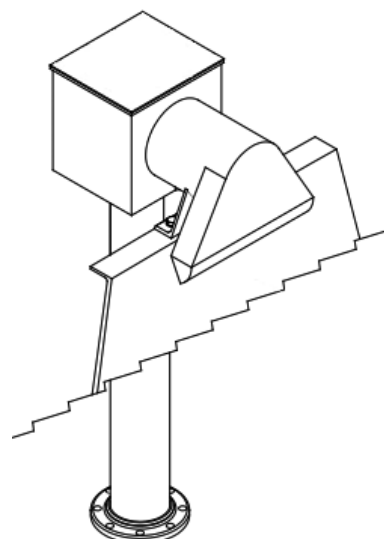
The Angus FSP (Full Surface Pourer) is specifically designed to provide these higher flow rates whilst generating good quality expanded foam when used with a high performance Angus foam concentrate. The outlet is specifically designed to discharge on to the tank wall such that it 'flows' on to the burning fuel providing gentle foam application. This solution offers many key advantages over alternative high capacity monitor solutions.

Key Features

- Fully automatic system for sites with low manning levels (no dependence on manpower).
- All the foam is gently applied to the risk area.
- The Buncefield Fire Report calls for full surface protection on all tanks.
- Fully engineered system.
- Rapid response minimising tank damage.
- UL listing for FSP150

Installation

The Angus FSP can be mounted directly onto the rim of a storage tank or onto an extension plate should the operator wish to position it well clear of the roof in its highest position.



FSP 150 is UL listed



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Foam Properties

The internal geometry of the Angus FSP has been designed to achieve the optimum foam quality using either high quality fluoroprotein foams such as (Tankmaster/FP70) or synthetic AR-AFFF foams (Tridol Ultra).

Range

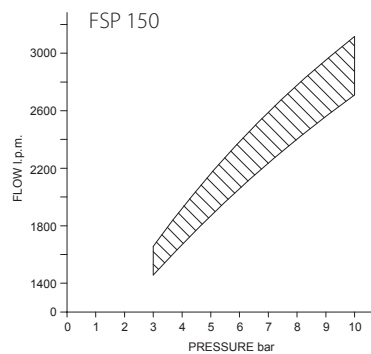
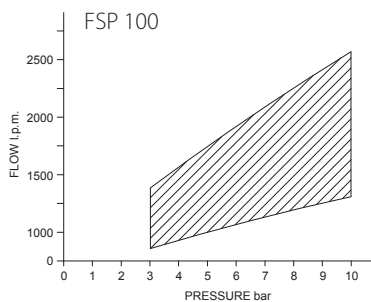
The Angus FSP comes in two sizes, the FSP100 and the FSP150 delivering flows of up to 3,300 litres/minute at up to 10 bar operating pressure.

Each installation is individually calibrated to ensure the correct application rate is achieved from the available pressure source.

Finish

The Angus FSP is made from carbon steel finished with a unique, yellow thermoplastic powder paint finish. Stainless steel options available.

Performance Envelope



Component	Material	Options
Body and foam generator tube	Carbon steel to EN10025	Stainless steel SS316
Air/liquid flow controller	Stainless steel SS316	
Captive foam enhancer	Stainless steel SS316	
Fixings (nuts, bolts, washers)	Stainless steel 304, A2	Stainless steel SS316
Outlet flange gasket	Neoprene rubber	PTFE

Angus Fire Full Surface Pourers are supplied as standard with a unique yellow thermoplastic powder paint finish, between 250 and 450 microns thick, suitable for most operating conditions. Alternative colours are available.

Specification	FSP 100	FSP 150
Weight	75kg	112kg
Overall height (mm)	1300	1650
Inlet	4" ANSI 150# RF	6" ANSI 150# RF
Outlet	8"	10"
Materials	Thermoplastic coated carbon steel, internals/fixings stainless steel	
Operating Temperature Range	-3 to 50°C	-3 to 50°C
Operating Pressure	3-10 Barg	3-10 Barg
Foam Expansion Ratio	5-7 times	5-7 times



GENERAL SALES

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Angus Fire operates a continuous programme of product development. The right is therefore reserved to modify any specification without prior notice and Angus Fire should be contacted to ensure that the current issues of all technical data sheets are used.