

Titan FC 800 - 2000

Aspirating Foam Cannons

- For use with MM1 and OMM1 water monitors
- Nominal flows 800 - 2,000 l/min at 7 bar inlet pressure



Cannon shown mounted on OMM1 Monitor

The Angus FC range of stainless steel aspirating foam cannons have been developed for use with the MM1 and OMM1 monitors. The unique design of the foam cannon body forces the foam/water pre-mix through a series of orifices breaking up the flow and providing a large surface area for aspiration. The surface area of the foam pre-mix is controlled to generate an expansion ratio in the range of 3 to 8. Expansion ratios below this level may not be effective on a fire. Expansion ratios above these levels can reduce the range of the cannon.

The design of the orifice plate and the cannon tube are carefully matched to provide the optimum throw while maintaining foam quality.

The barrel and all fixings are manufactured from SS316 grade stainless steel and mounted on to a bronze body.

Inlet connection

2½" BSP F

Operating pressure

Maximum design pressure 16 bar

Materials

Cannon barrel: Stainless Steel SS316
Bronze hub to EN CC491K, equivalent to LG2, Red Brass, ASTM B62 and UNI 7013-8

Copper	Zinc	Lead	Tin
85%	5%	5%	5%

Gaskets: Viton

Fixings: Stainless Steel SS316

Throw of foam jet

Maximum throw of a Fluoroprotein foam at 15°C in still air at an angle of elevation of 32° from the ground.

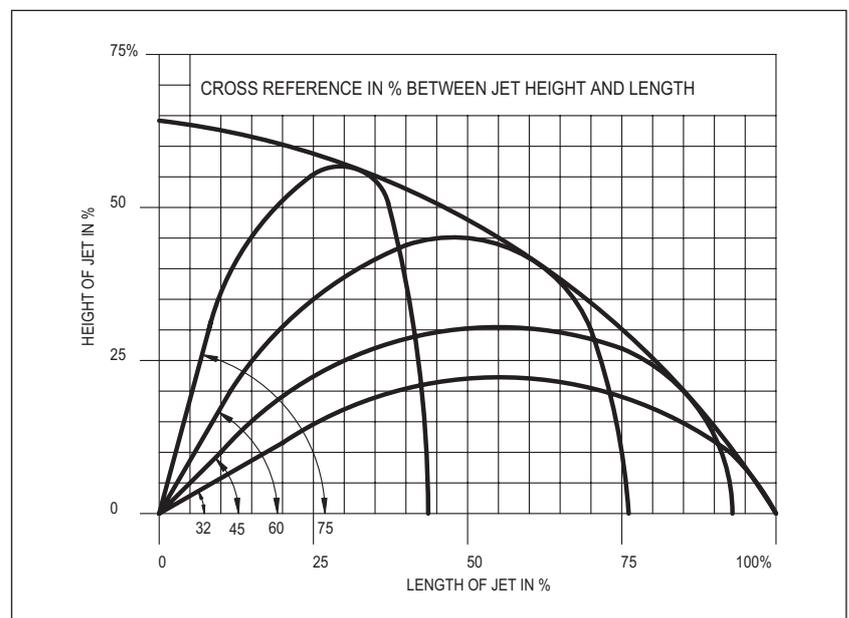
Inlet pressure	Inlet pressure	
	6 bar	12 bar
FC 800	28m	49m
FC 1000	30m	51m
FC 1200	31m	52m
FC 1400	32m	53m
FC 1600	37m	58m
FC 2000	39m	60m

Note: The jet throw depends on a number of variables such as wind direction, type and concentration of foam in the water and the condition of the monitor water ways and nozzle.

For throw and height calculations at different inlet pressure, angles and flows for specific monitor and nozzle combinations contact Angus Fire.

The approximate relationship between the height and throw of the water jet for various angles of incidence is shown below.

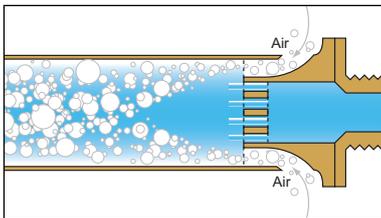
The data shown above is based on the use of a Fluoroprotein foam such as FP70.



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The FC range is designed to handle flows from 800 to 2,000 l/min (at a nominal inlet pressure of 7 bar) and can be operated at pressures up to 12 bar when necessary.



Multiple orifices break up the foam stream to increase the surface area and ensure the correct amount of air is mixed into the stream.

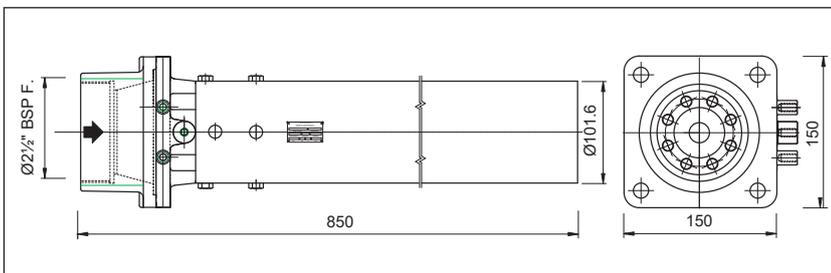
Monitor Range

Angus Fire offers an extensive range of firefighting monitors, which set new standards of performance for high risk environments. The range includes Fixed Monitors, Portable Monitors, Nozzles and Cannons with flows up to 7,000lpm. Bespoke monitors for specific needs can be supplied on request. Firefighting monitors are installed in harsh environments and will normally remain unused for many years and then be required to operate at peak performance in an emergency. As a result Angus Fire pays particular attention to design for long term reliability and resilience.

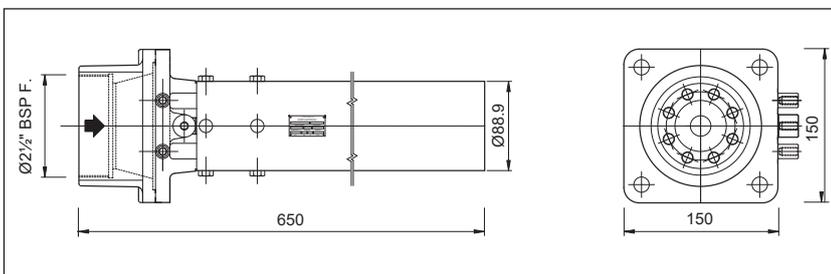
Foam

Angus Fire manufactures a wide range of C6, fluorine free and protein based foam concentrates. For marine application Angus Fire recommends Respondol ATF, the superior quality, multipurpose fluorine free foam with fast knockdown and extinguishment and low viscosity, low corrosion for easy induction and storage. Respondol ATF is the most advanced fluorine free foam available. It is the first fluorine free foam to achieve 1A/1A approval using both sea and fresh water on all fuels against the demanding EN1568 part 3&4 testing regime.

FC 1600 - FC 2000



FC 800 - 1400



Angus is a company assessed to ISO 9001.