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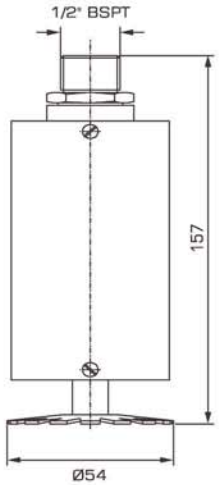
Foam Water Sprinkler

TECHNICAL DATA :

Model	F
Mounting	Pendent
Maximum Working Pressure	12.3 Kg. Sq. Cm (175 PSI)
Operating Pressure	2.0 Bar (30 PSI) minimum 4.2 Bar (60 PSI) maximum
End Connection	1/2" BSPT (1/2" NPT Optional)
Material	Brass and Bronze OR Stainless Steel
K-Factor	K-42 standard Other K-factor can be provided as optional
Weight	0.750 Kg.
Ordering Information	Please specify : Model, End connection and Material

DIMENSIONS



APPLICATION :

The Foam-Water Sprinklers are used in the deluge foam system to protect the risk where foam is required to be applied from overhead sprinklers and is to be followed with plain water in a standard sprinkler pattern.

Foam Water Sprinklers protect the loading and unloading area in the event of a spill fire with low expansion foam systems. These are useful in other wide applications including Air Craft Hangers.

SPECIFICATION

Foam Water Sprinklers are open and air aspirating type. The pattern of coverage is similar to the conventional sprinkler head. The Foam Water Sprinkler has standard orifice with K-factor of 42.

Foam Water Sprinklers are designed to operate at a minimum of 2 bar pressure and maximum of 4.1 bar. The Foam Water Sprinkler with K-42 will deliver about 61 LPM at 2 bar pressure. The standard coverage per Foam Water Sprinkler is 9.3sq.m. (100 sq.ft.)

SYSTEM DESIGN

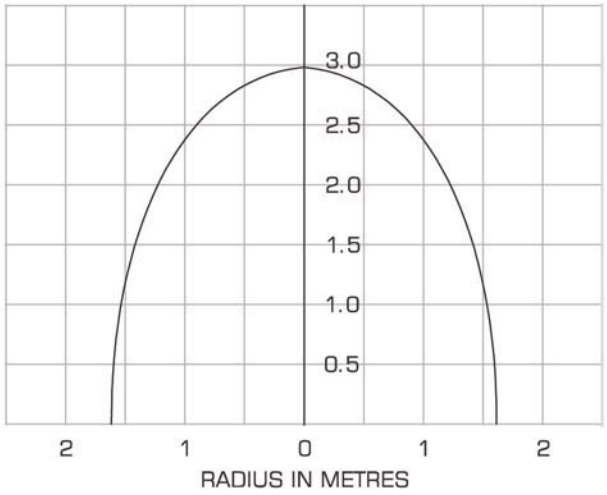
The following are a few guidelines for minimum requirement of foam system design.

a) Foam solution discharge rate : Area of hazard X application rate.

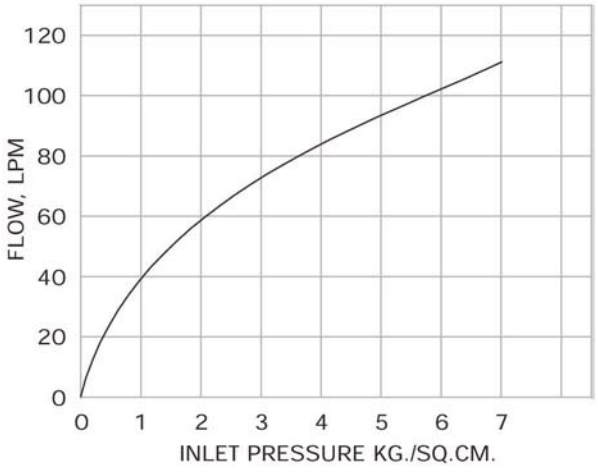
b) Minimum foam solution application rate required as per NFPA is 6.5LPM/sq.m. for the area of hazard to be protected.

Foam Water Sprinkler

DISCHARGE PATTERN



PRESSURE VS FLOW PERFORMANCE CHARACTERISTIC



$$Q = K \times \sqrt{P}$$

Q = Flow in LPM
P = Pressure in kg/sqcm
K = K-factor of nozzle.