FOAM WATER SPRINKLER MODEL F1

HD FIRE PROTECT PVT. LTD.

TECHNICAL DATA

MODEL	F1
MOUNTING	Pendent
MAXIMUM WORKING PRESSURE	12 Bar (175 PSI)
OPERATING PRESSURE	2.1 Bar (30 PSI) minimum 4.2 Bar (60 PSI) maximum
END CONNECTION	1/2" BSPT (1/2" NPT Optional)
MATERIAL	Stainless Steel (SS316)
K-FACTOR	K-42 standard Other K-factor can be provided as optional
FINISH	Natural finish
WEIGHT (Approx)	0.465 Kg
ORDERING INFORMATION	Specify Model, End connection

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 2.1 bar pressure and maximum of 4.2 bar. The Foam Water Sprinkler with K-42 will deliver about 61 LPM at 2.1 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.

MAINTENANCE

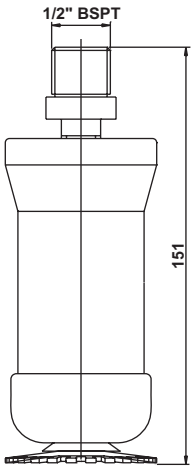
The water foam sprinkler must be handled with due care. For best results,the storage as well as any further shipment be made in original packing only.

water foam sprinkler which is visibly damaged should not be installed.

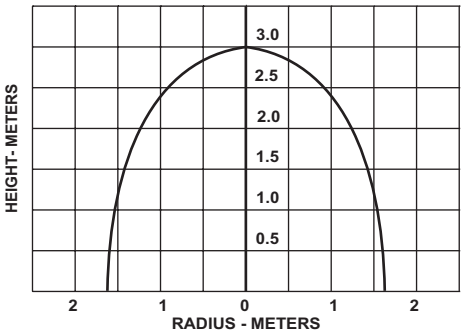
Use Teflon tape or soft thread sealant on male thread of the sprinkler. The sprinkler must be tightened in to the fitting. Excessive tightening torque may result into serious damage to sprinkler arms and the deflector which may affect spray pattern of the nozzle and it's performance.

It is recommended that water foam spray system be inspected regularly by authorised technical personnel. The nozzle must be checked for atmospheric effects, external and internal obstruction, blockage if any. The nozzles should be cleaned or replaced if required. The system must be operated with optimum water flow at least twice in a year or as per the provisions of NFPA or as per authority having jurisdication.

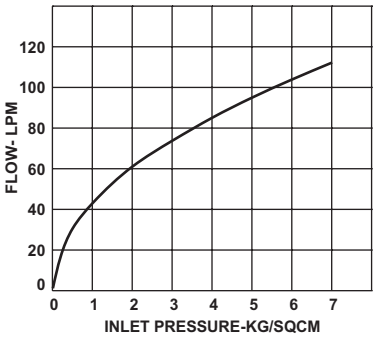
DIMENSIONS



DISCHARGE PATTERN



PRESSURE VS FLOW PERFORMANCE CHARACTERISTIC



Note:

Regardless of area minimum two water foam sprinkler are to be installed in order to achive sufficient spray pattern overlap.

LIMITED WARRANTY

HD FIRE PROTECT PVT. LTD. hereby referred to as HD FIRE warrants to the original purchaser of the fire protection products manufactured by HD FIRE and to any other person to whom such equipment is transferred, that such products will be free from defect in material and workmanship under normal use and care, for two (2) years from the date of shipment by HD FIRE. Products or Components supplied or used by HD FIRE, but manufactured by others, are warranted only to the extent of the manufacturer's warranty. No warranty is given for product or components which have been subject to misuse, improper installation, corrosion, unauthorized repair, alteration or un-maintained. HD FIRE shall not be responsible for system design errors or improper installation or inaccurate or incomplete information supplied by buyer or buyer's representatives.

HD FIRE will repair or replace defective material free of charge, which is returned to our factory, transportation charge prepaid, provided after our inspection the material is found to have been defective at the time of initial shipment from our works. HD FIRE shall not be liable for any incidental or consequential loss, damage or expense arising directly or indirectly from the use of the product including damages for injury to person, damages to property and penalties resulting from any products and components manufactured by HD FIRE. HD FIRE shall not be liable for any damages or labour charges or expense in making repair or adjustment to the product. HD FIRE shall not be liable for any damages or charges sustained in the adaptation or use of its engineering data & services. In no event shall HD Fire's product liability exceed an amount equal to the sale price.

The foregoing warranty is exclusive and in lieu of all other warranties and representation whether expressed, implied, oral or written, including but not limited to, any implied warranties or merchantability or fitness for a particular purpose. All such other warranties and representations are hereby cancelled.

NOTICE :

The equipment presented in this bulletin is to be installed in accordance with the latest publication standards of NFPA or other similar organisations and also with the provision of government codes or ordinances wherever applicable.

The information provided by us are to the best of our knowledge and belief, and are general guidelines only. Site handling and installation control is beyond our reach. Hence we give no guarantee for result and take no liability for damages, loss or penalties whatsoever, resulting from our suggestion, information, recommendation or damages due to our product.

Product development is a continuous programme of HD FIRE PROTECT PVT. LTD. and hence the right to modify any specification without prior notice is reserved with the company.

HD FIRE PROTECT PVT. LTD.

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