



Lifeco

Medium Velocity Water Spray Nozzle



APPLICATION

LIFECO Medium Velocity Water Spray Nozzles has an external deflector, which discharges water in a directional cone shaped pattern of small droplet size. The water is uniformly distributed over the surface to be protected.

The nozzle is used in deluge water spray system for special hazard fire protection application.

As the design and intent of specific water spray system may vary considerably, a MV nozzle is made available in several combination of orifice sizes and spray angles.

The minimum desirable pressure to achieve a reasonable spray pattern is 1.4 Kg./Sq.cm. The water distribution pattern as shown in the graph in following pages is at an average pressure of 2.0 Kg/Sq.cm. The change in pressure between 1.4 to 3.5 Kg/sq.cm. does not affect considerable change in spray angle. The spray pattern shown is with indoor application. System designer must consider wind velocity while designing the system for outdoor application. Field obstruction if any affecting the spray pattern of the nozzle must also be considered. The nozzle may be oriented to any position which is deemed necessary to cover the hazard.

MAINTENANCE

The spray nozzle must be handled with due care. For best result, the nozzle should be stored in the original package in which it has been shipped. It is advised to ship the nozzle in the same package in future transit.

Nozzle which is visibly damaged should not be installed.

Use Teflon tape or soft thread sealant on male thread of the nozzle. The nozzles must be hand tightened into the fitting. LIFECO make wrench must be used to tighten the nozzle unit into the fitting. Excessive tightening torque may result into serious damage to nozzle arms and the deflector which may affect spray pattern of the nozzle and it's performance.

It is recommended that water spray system be inspected regularly be authorised technical personnel. The nozzle must be checked for corrosion, external and internal obstruction, blockage if any. The nozzle 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 provision of NFPA or local authority having jurisdiction.

The owner is solely responsible for maintaining the water spray system and the components therein so that it performs properly in actual operating condition.



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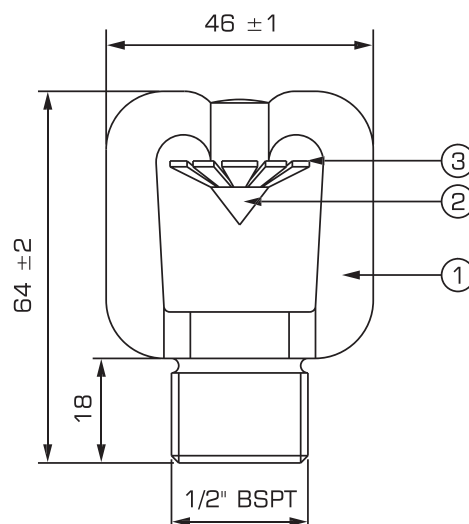


Medium Velocity Water Spray Nozzle

TECHNICAL DATA:

| | | | |
|--|--|---------|-------------|
| MODEL | A & B | | |
| RATED WORKING PRESSURE | 12.3 Kg./Sq. Cm. (175 psi) | | |
| MAXIMUM EFFECTIVE WORKING PRESSURE | 7 Kg./Sq.Cm. (100 psi) Max. | | |
| END CONNECTION | 1/2" BSPT (1/2" NPT Optional) | | |
| MATERIAL | Model A - Brass Model B - Stainless Steel | | |
| INCLUDED WATER SPRAY ANGLE FOR EACH K-FACTOR | 140°, 120°, 110°, 100°, 90°, 80° & 65° | | |
| ORIFICE SIZE AND K-FACTOR | (MM) | (INCH) | Metric (US) |
| | 6.0 | (0.236) | K22 (1.54) |
| | 7.0 | (0.275) | K30 (2.10) |
| | 7.5 | (0.295) | K35 (2.45) |
| | 8.0 | (0.314) | K41 (2.87) |
| | 9.0 | (0.354) | K51 (3.57) |
| | 10.0 | (0.393) | K64 (4.48) |
| | 11.0 | (0.433) | K79 (5.53) |
| | 12.0 | (0.472) | K91 (6.37) |
| | 12.5 | (0.492) | K102 (7.14) |
| WEIGHT | Approx. 0.130 Kgs. | | |
| FINISH | Brass or Nickel Chrome Plated for Model-A Natural Finish for Model-B | | |
| APPROVALS | UL Listed (for Model-A) | | |
| ORDERING INFORMATION | Specify K-Factor, Spray Angle and Finish. | | |

DIAGRAM



PART LIST

| COMPONENT | MODEL-A | MODEL-B |
|---------------|--------------|---------|
| HOUSING | FORGED BRASS | S.S. |
| DEFLECTOR PIN | BRASS | S.S. |
| DEFLECTOR | BRASS | S.S. |

DISCHARGE CHARACTERISTICS

