



Lifeco

High Velocity Water Spray Nozzle



APPLICATION:

LIFECO High Velocity Water Spray Nozzles are internal swirl plate type open nozzles designed for use in fixed water spray or deluge system for the fire protection application.

These nozzles produce solid uniform and dense core of high velocity water spray to effect fire control. Nozzles are normally used to cool the surface as well as for extinguishment. Nozzles are typically used for deluge protection of special hazards such as oil filled transformers, switch-gear, chemical process equipments, conveyor system and flammable liquid storage areas.

The minimum desirable pressure to achieve a reasonable spray pattern is 3.5 Kg./sq.cm. (50 psi). The water distribution pattern as shown in the graph in following pages giving maximum effective axial distance from the nozzle. The spray pattern shown is with indoor application. The 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 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 results, the nozzle should be stored in the original packing 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 the male thread of the nozzle.

It is recommended that the water spray system be inspected by an 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 three times 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 condition.



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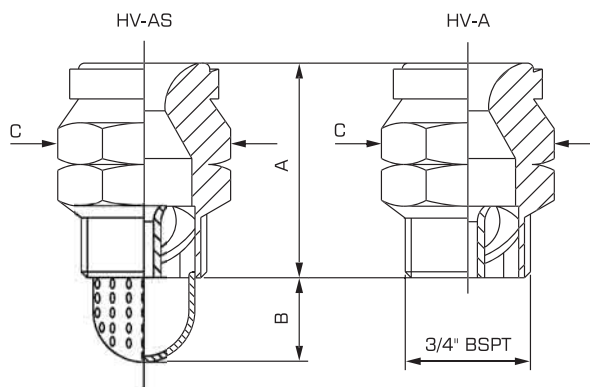


High Velocity Water Spray Nozzle

TECHNICAL DATA:

MODEL	HV-A Without strainer HV-AS with strainer	
RATED WORKING PRESSURE	12.3 Kg. / Sq. Cm. (175 PSI)	
MAXIMUM EFFECTIVE WORKING PRESSURE	3.5 to 10.5 Kg./Sq.Cm. (50 to 150 PSI)	
END CONNECTION	3/4" BSPT (3/4" NPT Optional)	
MATERIAL	Housing & Scroll - Brass	
INCLUDED WATER SPRAY ANGLE AND K-FACTOR	SPRAY ANGLE	K-FACTOR METRIC (US)
	75°	22 (1.54)
	80°	18 (1.26)
	90°	32 (2.24)
	100°	26 (1.82)
WEIGHT	Approx. 0.170 Kgs.	
FINISH	Brass Finish Nickel Chrome Plated (Optional)	
APPROVALS	UL Listed	
ORDERING INFORMATION	Specify Model, K-Factor, Spray Angle and Finish.	

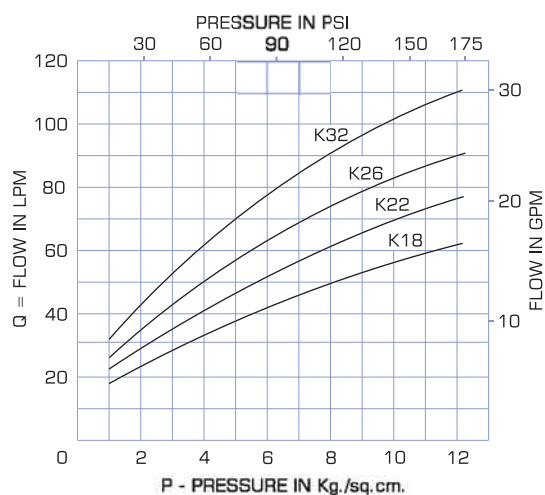
DIAGRAM



DIMENSION: In millimetres (Approximate)

NOZZLE FACTOR & SPRAY ANGLE	A	B	C (A/F)
K 22 x 75°	49	21	30
K 18 x 80°	44	21	30
K 32 x 90°	49	21	30
K 26 x 100°	55	21	30

DISCHARGE CHARACTERISTICS



$Q = K\sqrt{P}$ where P is supply pressure in Kg./sq.cm.,
K-is nozzle constant in Metric
US K Factor = Metric K Factor \div 14.2745

Lichfield Fire & Safety
Equipment Co. Ltd
Suite 4, 2nd floor, Saturn Centre
Spring Road, Ettingshall
Wolverhampton WV4 6JX
United Kingdom.

Tel: +44 (0) 870 066 4401
Fax: +44 (0) 870 066 4402
E-Mail: info@lifeco-uk.com
Website: www.lifeco-uk.com

