

Spray Nozzles

Medium Velocity Spray Nozzles Model

Application

Medium Velocity Water Spray Nozzle 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 a 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 pattern is 1.4 Kg/Sq.Cm. The water distribution pattern is shown in the graph in following pages is of 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. Field construction if any affecting the spray pattern of the nozzle must also be considered. The nozzle may be oriented to any position as deemed necessary to cover the hazard.

Technical Data



Model	A&B			
Maximum Working Pressure	12.3 Kg/Sq.Cm. (175 psi) maximum 1.4 Kg/Sq.Cm. (20 psi) minimum			
End Connection	½" BSPT (½" 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	236	K22	1.54
	7.0	275	K30	2.10
	7.5	295	K35	2.45
	8.0	314	K41	2.87
	9.0	354	K51	3.57
	10.0	393	K64	4.48
	11.0	433	K79	5.53
	12.0	472	K91	6.37
	12.5	492	K102	7.14
Weight	0.115 Kg (approx)			
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			



Nitin Venture FZE.

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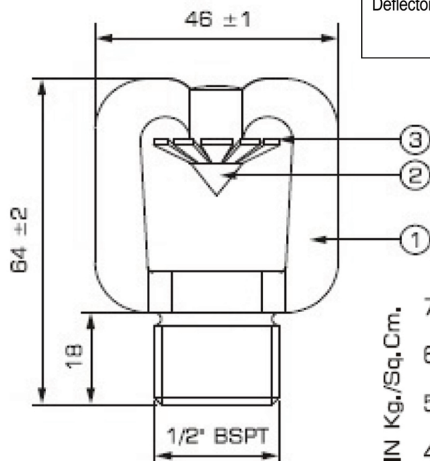
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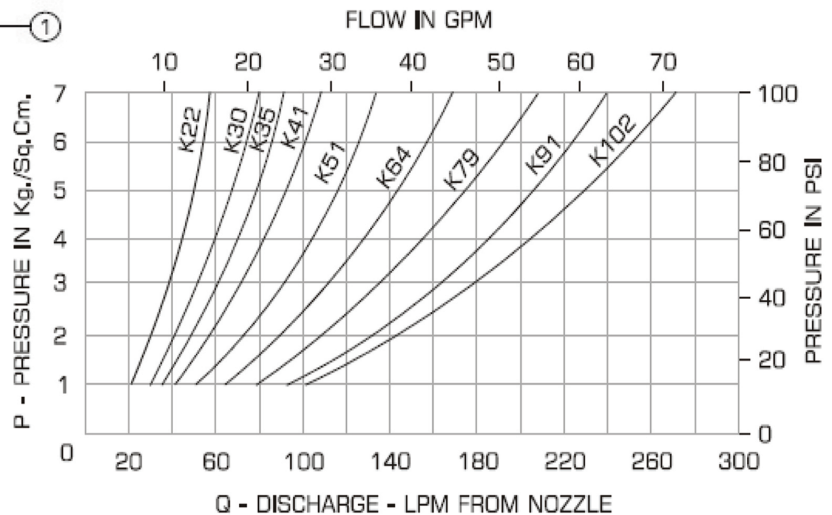
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Part List

COMPONENT	MODEL-A	MODEL-B
Housing	Forged Brass IS-291 GR-1 Equivalent to ASTM B-21	SS-316
Deflector Pin	Brass IS-291 GR-1 Equivalent to ASTM B-21	SS-316
Deflector	Brass IS-2768 Equivalent to ASTM B-36	SS-316



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 ÷ 14.2745



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