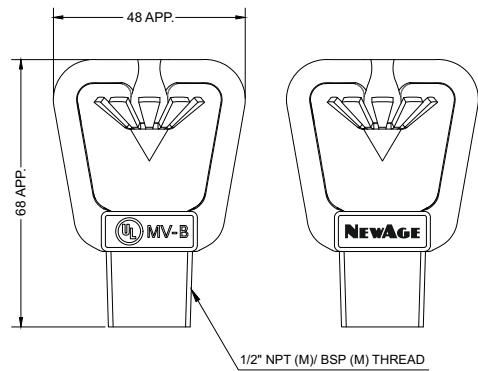


**MODEL MV-B AND MV-S**



**MEDIUM VELOCITY SPRAY NOZZLES**

- ◆ Directional Spray Nozzle with cone shaped spray pattern.
- ◆ Spray Nozzles are designed to produce extremely uniform coverage.
- ◆ Suitable for a minimum working pressure of 7 PSI (0.5 Bar) and maximum working pressure of 175 PSI (12 Bar).
- ◆ Wide Range of K-Factor and Spray Angle are available.
- ◆ Available in SS316 construction.



**SPRAY NOZZLE**

Nozzle may be installed in any position as per design requirements.

**SPECIFICATION**

Description	Material Of Construction	
	Brass	Stainless Steel
Yoke	IS:291 Gr.1 (Naval Brass)	ASTM-A 351 Gr.CF8M (Stainless Steel)
Deflector	ASTM-B-36 C22000 (Brass)	(ASTM-A 240 UNS 32750 (Stainless Steel)
Pin	IS:291 Grade:1 (Naval Brass)	ASTM-A 276 UNS 32750 (Stainless Steel)

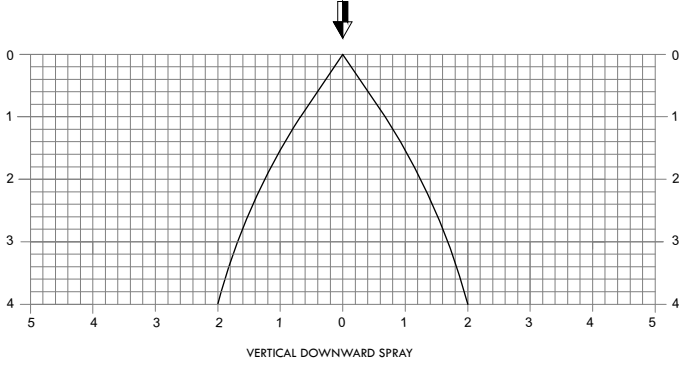
Size mm / in	Discharge Angle Deg.	Discharge Coefficient K (LPM)
15 / ½	65° 80° 90° 100° 110° 120° 140°	18
15 / ½		22
15 / ½		30
15 / ½		35
15 / ½		41
15 / ½		51
15 / ½		64
15 / ½		79
15 / ½		91
15 / ½		102

- ◆ Finish: Available in Natural Brass finishes or Chromium Plated or Powder Coated.
- ◆ Accessories: Spanner are available.
- ◆ For flow details refer flow curves.

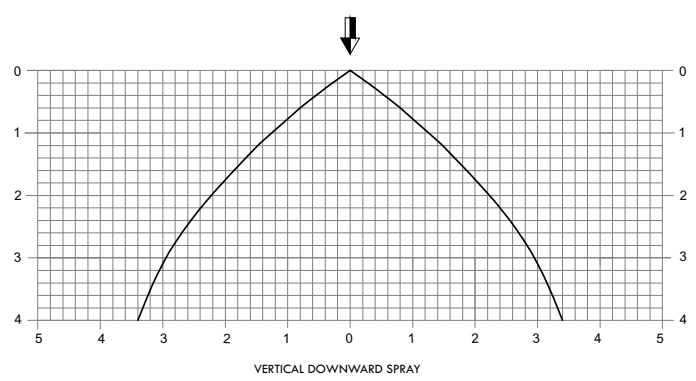
### SPRAY PATTERN FOR MEDIUM VELOCITY WATER SPRAY NOZZLE

SPRAY NOZZLE

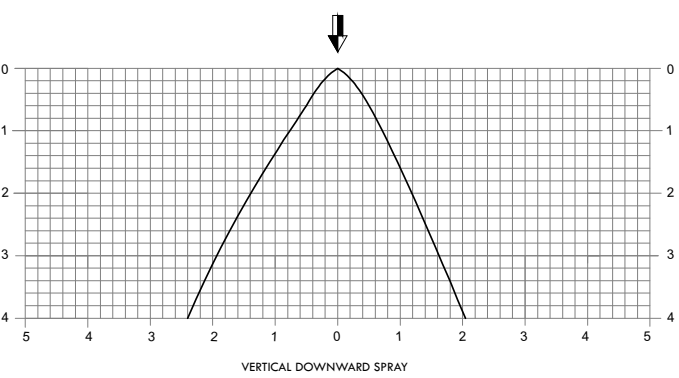
SPRAY ANGLE 65°



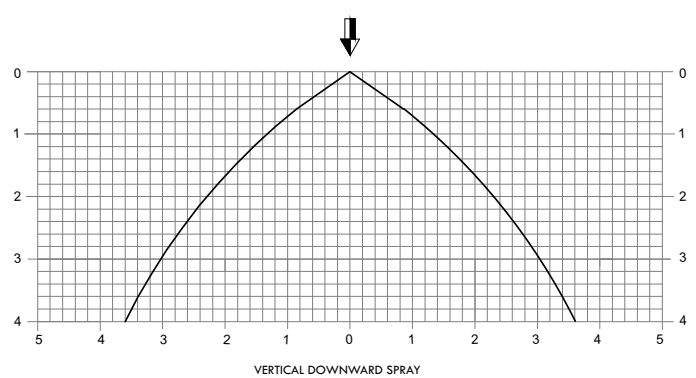
SPRAY ANGLE 100°



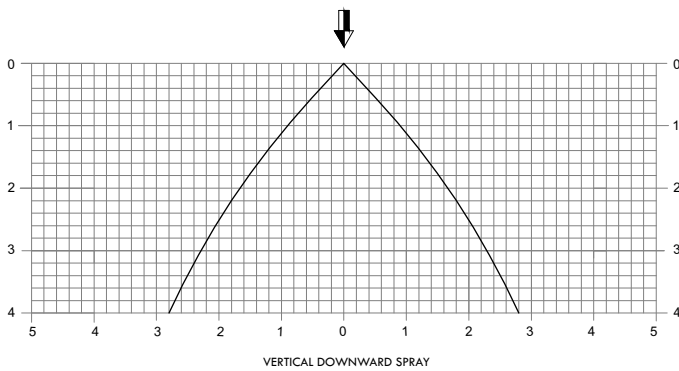
SPRAY ANGLE 80°



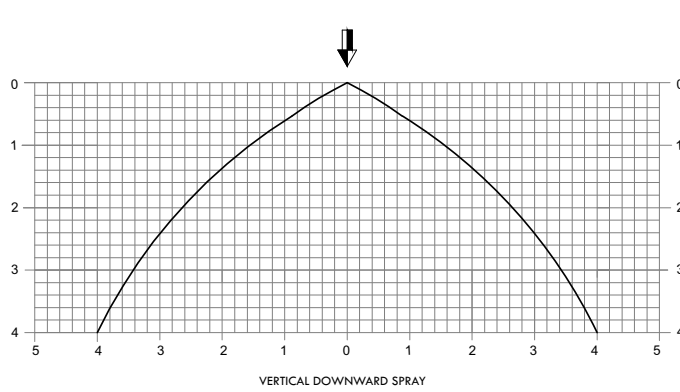
SPRAY ANGLE 110°



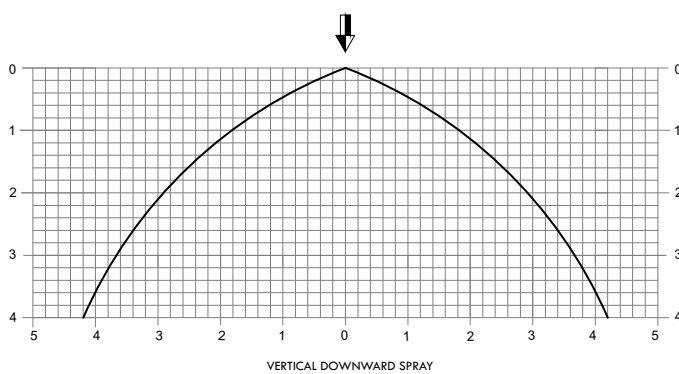
SPRAY ANGLE 90°



SPRAY ANGLE 120°



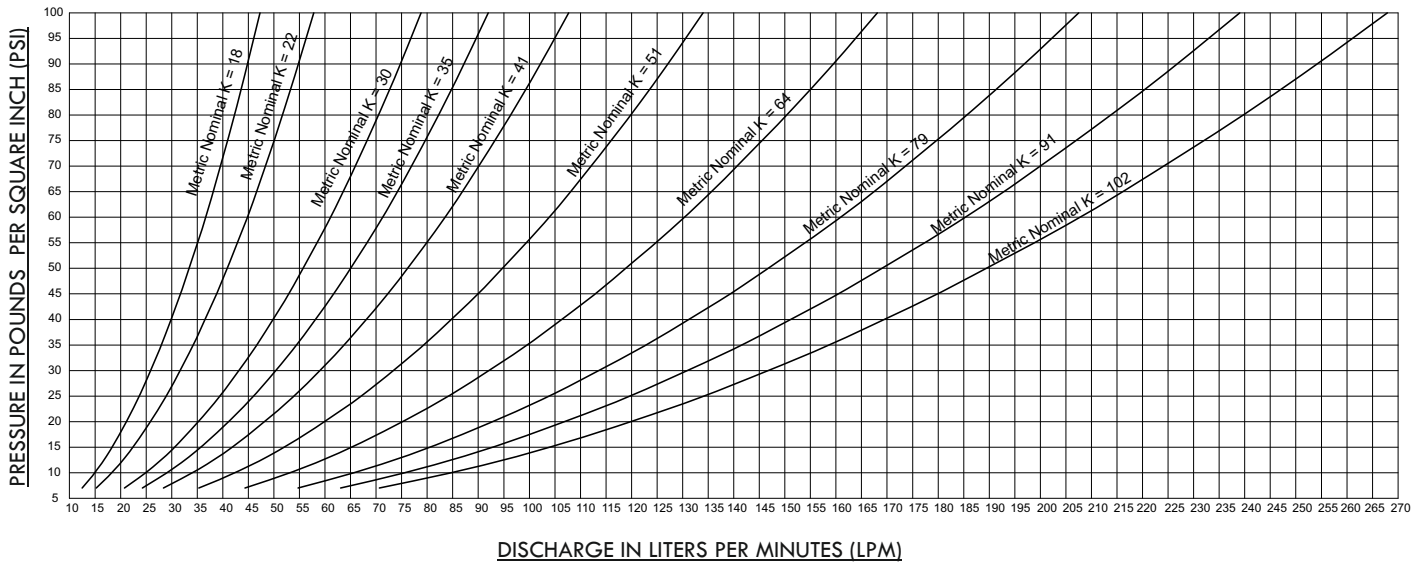
SPRAY ANGLE 140°



**Note :** all units are in meters.

### DISCHARGE CURVE

NOMINAL DISCHARGE CURVES FOR MEDIUM VELOCITY WATER SPRAY NOZZLE,  
PRESSURE (PSI) vs LITERS PER MINUTE (LPM)



SPRAY NOZZLE

### INSTALLATION

- Spray nozzles must be installed after the piping is in place to prevent mechanical damage.
- Before installing be sure to have the appropriate model, correct k-factor etc.
- Apply a small amount of thread sealant or tape to the external threads of the spray nozzle only, hand tighten the nozzle into the nozzle pipe fitting in the pipe work.
- Tighten the nozzle using an adjustable crescent wrench on the nozzle wrench hex. Do not over tighten, which may distort the nozzle inlet and cause impairment to nozzle. Make sure that deflector is not bent or damaged.
- Install dust caps or blow off caps (if used).

### CARE AND MAINTENANCE

Care must be exercised to avoid damage to the nozzles. For minimum maintenance and inspection requirements refer to NFPA25. In addition the authority having jurisdiction may have additional maintenance, testing and inspection requirements. Frequent visual inspections are required where nozzles are installed in potentially corrosive areas. The nozzle is to be cleaned or replaced if required. The owner is responsible for maintaining the spray system to ensure that it performs properly as intended.

### WARNING

The design of these water spray fixed systems must only be performed by experienced designers who understand the capabilities and limitation of these nozzles. These nozzles must be installed in accordance to applicable NFPA standards. Deviations from these standards or any alteration to the Nozzle after it leaves the factory including, but not limited to: painting, plating, coating or modification may render the unit in operative and will automatically nullify the approval and any guarantee made by NewAge.