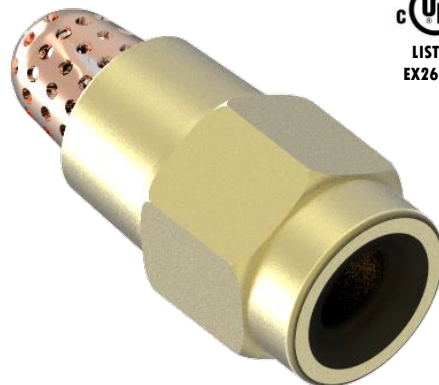


SPRAY SYSTEM OPEN NOZZLES

Model HV
High velocity nozzle
HV-1F/HV-2F



PRODUCT DESCRIPTION

Model HV high velocity nozzles from AG Fire Sprinkler are designed for use in water spray fixed system for fire protection applications. The nozzles are open (non-automatic) directional spray nozzles with internal swirl plate and individual inlet strainers.

Used in water spray systems for the protection of fixed hazards such as transformers, circuit breakers, diesel engines and diesel storage tanks, turbo alternators, lube oil systems, oil fire boilers, chemical processing equipment and similar hazards. The surface cooling effects of high velocity type nozzles also minimizes the possibility of reignition after a fire extinguishment.

Optional blow-off plugs are available for protection from dust and insect infestation and other accumulation of debris. The top cover is designed for both indoor and outdoor use. The use is optional.

TECHNICAL DATA

Model	HV-1F: Brass HV-2F: Stainless Steel
Maximum working pressure	12 bar (175 psi)
Effective working pressure	3,5 bar to 10,5 bar (50 psi to 150 psi)
End connection	3/4" NPT [3/4" BSPT Optional]
Materials	HV-1F: Brass IS: 291 (equivalent to ASTM-B21) Strainer – Copper HV-2F: Stainless Steel SS 316 (CF8M)
Included water spray angle and k-factor metric (US)	75° - K22 (1.54) 80° - K18 (1.26) 90° - K32 (2.24) 100° - K26 (1.82) 115° - K42 (2.94) 120° - K23 (1.61)
Weight (Approx.)	0,200 Kg
Finish	Natural Finish Nickel Chrome Plated (Optional for 20HV-1U/1FU)

MAINTENANCE

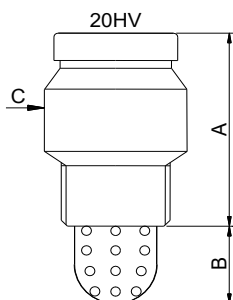
Water spray fixed systems for fire protection service require regularly scheduled care and maintenance by trained personnel. Frequent visual inspections are recommended.

Nozzles damaged by dropping, striking, wrench twist/slip-page, or the like, must be replaced.

Spray nozzle must never be painted, plated, coated or otherwise altered after leaving the factory.

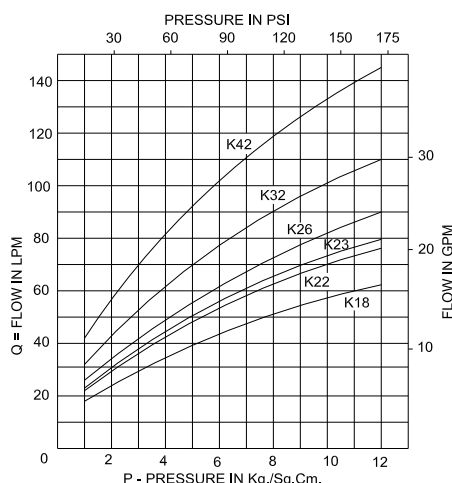
For minimum maintenance and inspection requirements, refer to the NFPA standard.

DIMENSIONS



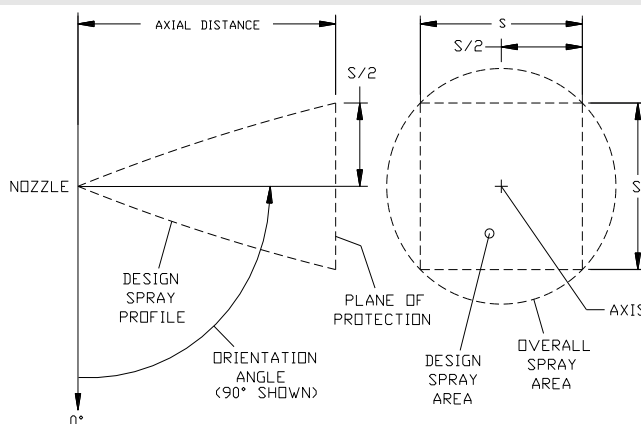
NOZZLE FACTOR & SPRAY ANGLE	A (mm)	B (mm)	C (mm)
K 22 X 75°	49	21	30
K 18 X 80°	44	21	30
K 32 X 90°	49	21	30
K 26 X 100°	55	21	30
K 42 X 115°	49	21	30
K 23 X 120°	49	21	30

DISCHARGE CURVES

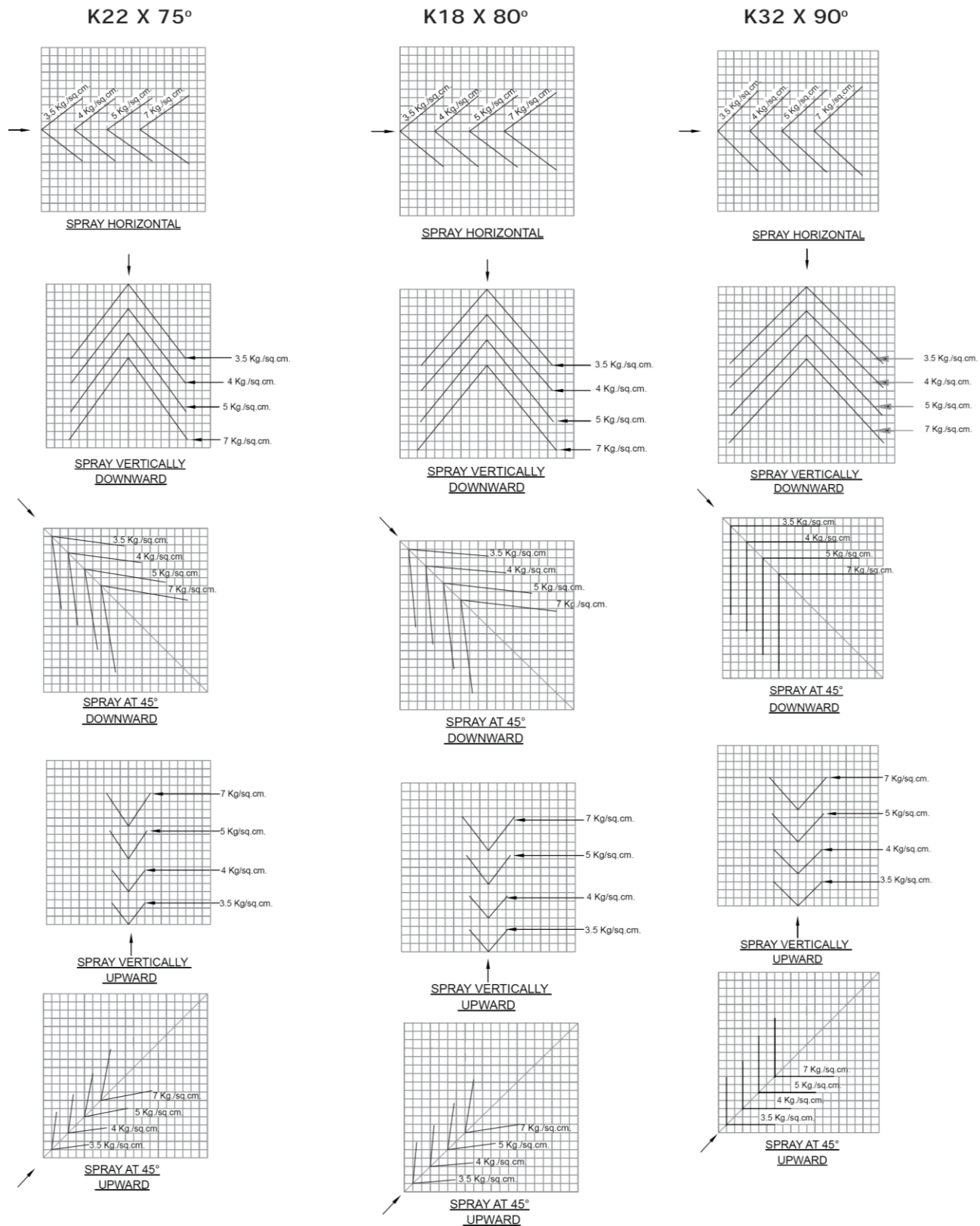


where P is supply pressure in Kg/sq.cm., K= nozzle constant (K-factor) i
US K factor = Metric K factor ÷ 14.2745

NOZZLE ORIENTATION

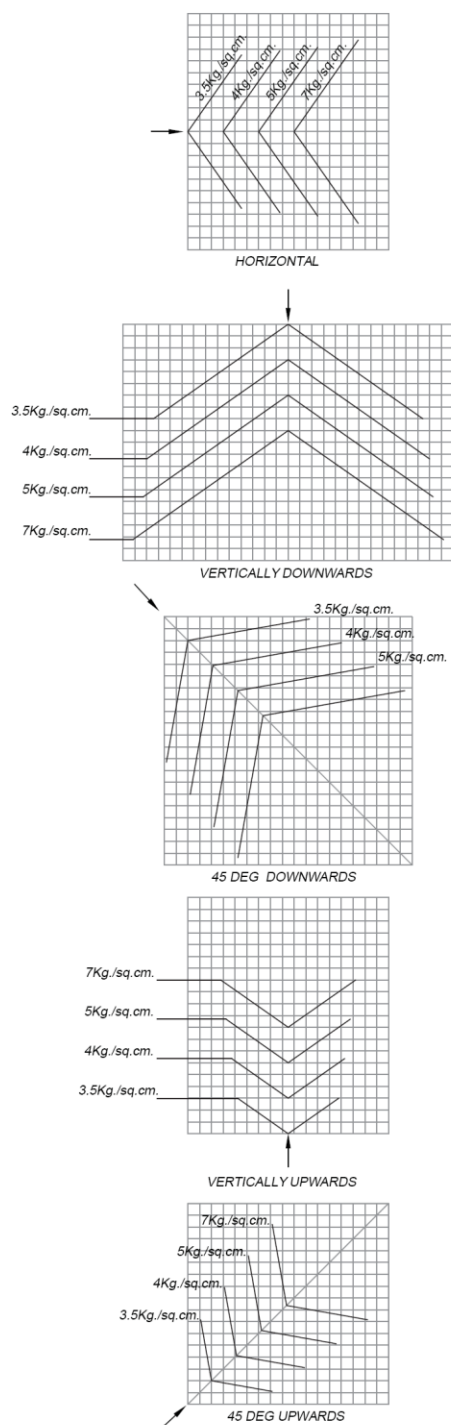


SPRAY PATTERN

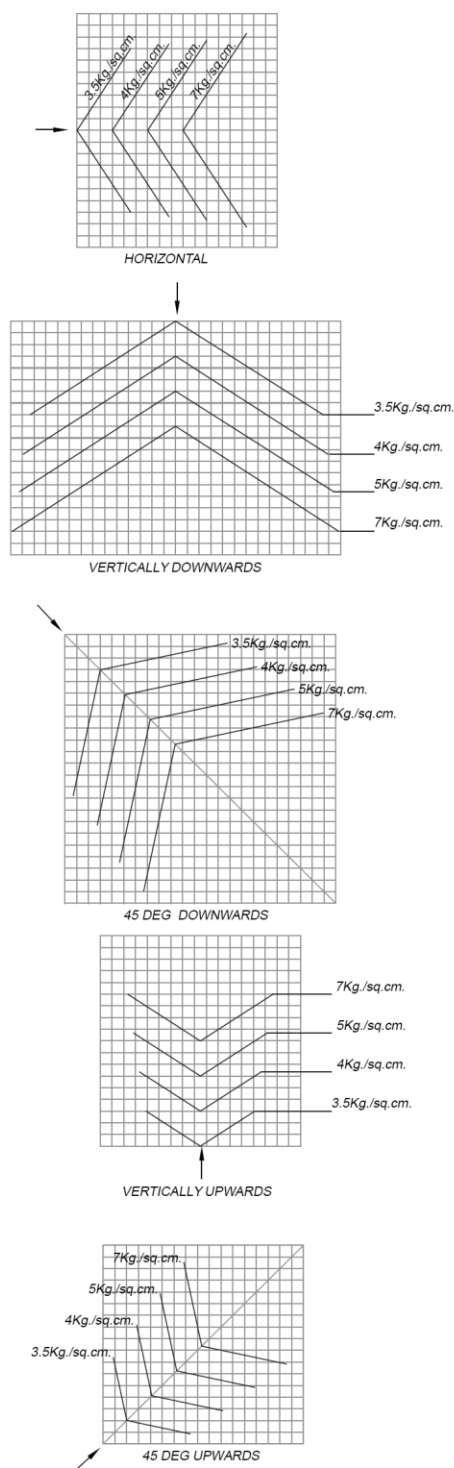


Note: One square is 200 x 200 mm.

K42 X 115°

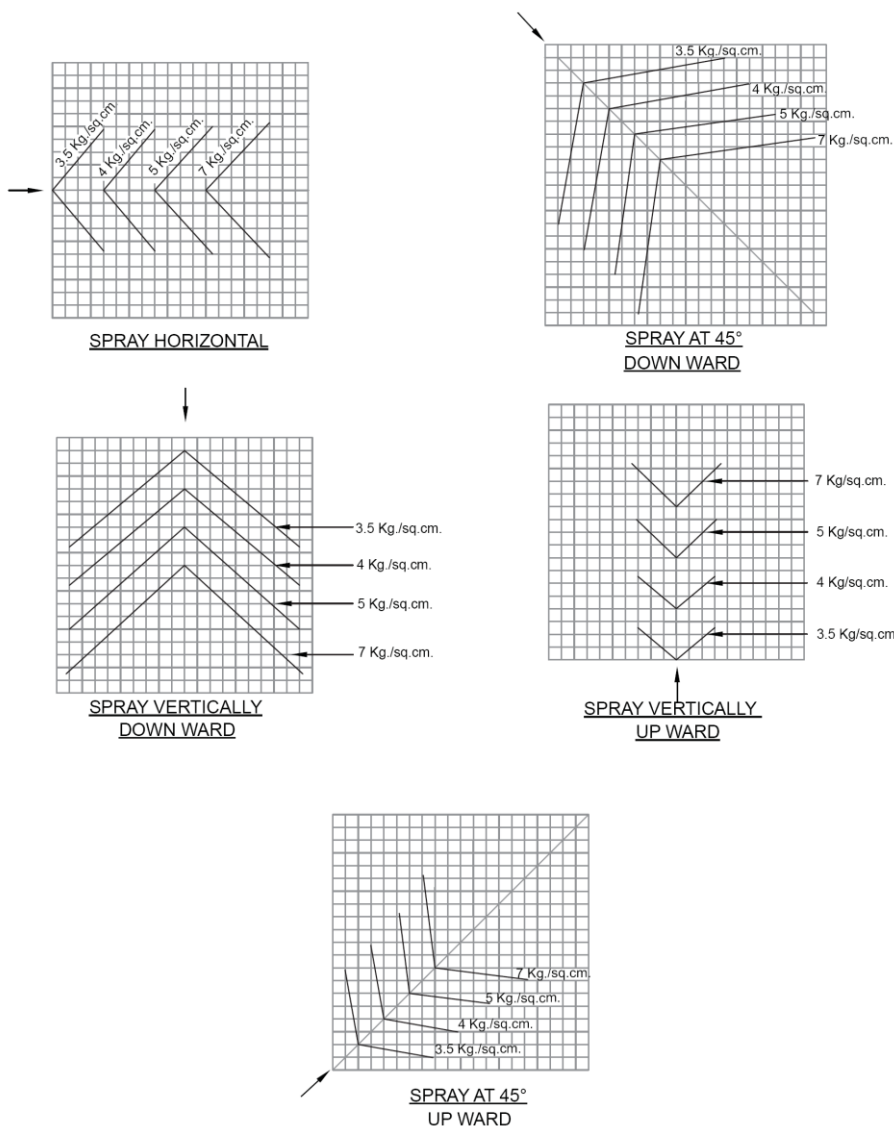


K23 X 120°



Note: One square is 200 x 200 mm.

K26 X 100°



Note: One square is 200 x 200 mm.

ORDERING INFORMATION

ANGLE	MATERIAL	
	BRASS	STAINLESS STEEL
75°	HV120075	HV220075
80°	HV120080	HV220080
90°	HV120090	HV220090
100°	HV120100	HV220100
115°	HV120115	HV220115
120°	HV120120	HV220120
PLUG	20HVTAPON	

Specify:

Model	
Quantity	
K-Factor	
Spray angle	
Finish	