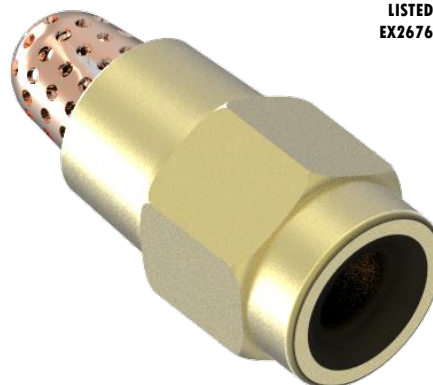


SPRAY SYSTEM OPEN NOZZLES

Model 1HV

High velocity nozzle

1HV-1F / 1HV-2F



PRODUCT DESCRIPTION

Model 1HV high velocity water spray nozzles from AG Fire Sprinkler are open (non-automatic) directional spray nozzles with individual inlet strainers.

Inside swirl plate creates a conical spray pattern shape of water droplets.

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 possibility that the fire will restart decreases considerably.

A strainer should be installed in the pipeline to ensure the correct operation of the system.

TECHNICAL DATA

Model	1HV-1F: Brass 1HV-2F: Stainless Steel
Maximum Working Pressure	12 bar (175 psi)
Effective Working Pressure	2,1 bar to 6 bar (30 psi to 80 psi)
End connection	1" NPT [1" BSPT Optional]
Material	1HV-1F: Brass IS: 291 (equivalent to ASTM-B21) Strainer – Copper (optional) 1HV-2F: Stainless Steel SS 316 (CF8M) Strainer – Stainless Steel (optional)
Included Water Spray Angle And K-Factor Metric (Us)	100° - K48 (3.37) 100° - K58 (4.08) 75° - K61 (4.29) 90° - K78 (5.48)
Weight (Approx.)	0,250 Kg
Finish	1HV-1F: Brass Finish Nickel Chrome Plated (Optional) 1HV-2F: Natural

MAINTENANCE

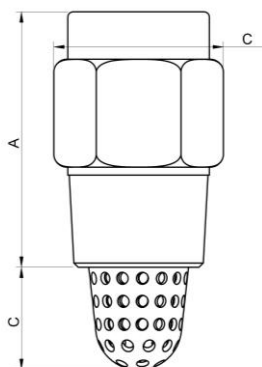
Water spray fixed systems for fire protection service require regularly scheduled care and maintenance by trained personnel.

Sprinklers which are found to be leaking or exhibiting visible signs of corrosion must be replaced. Nozzles damaged by dropping, striking, wrench twist/slip-page, or the like, must be replaced.

When replacing spray nozzles, use only new spray nozzles.

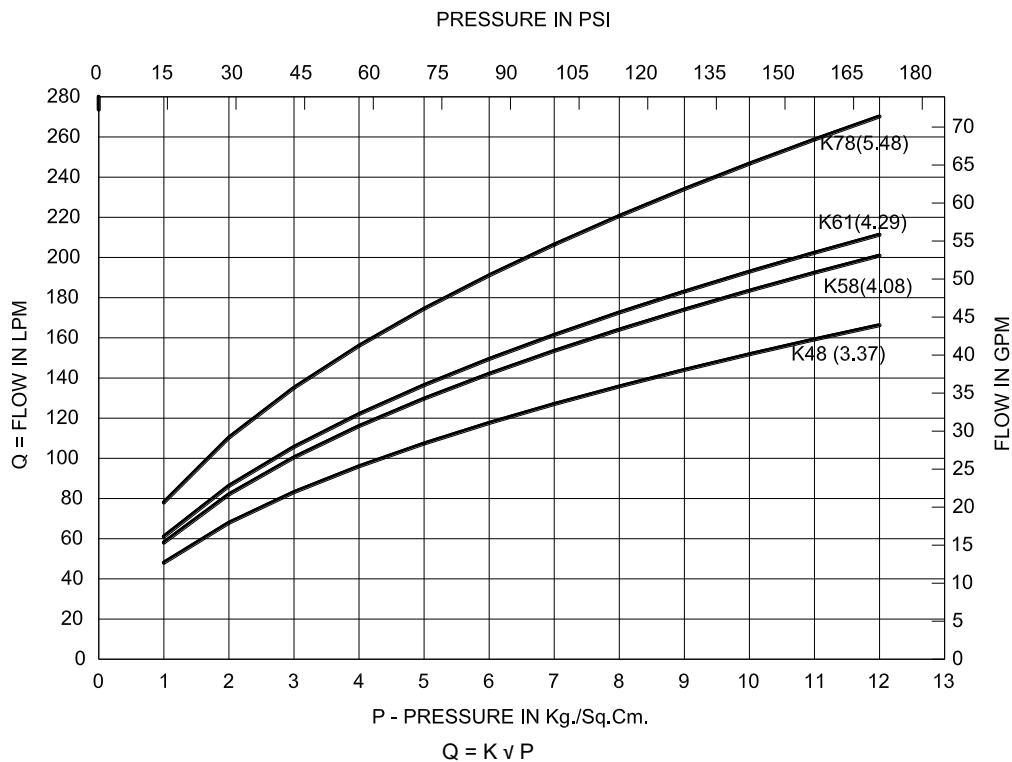
For minimum maintenance and inspection requirements, refer to NFPA standard.

DIMENSIONS



NOZZLE FACTOR & SPRAY ANGLE	A (mm)	B (mm)	C (mm)
K 48 X 100°	52	29	36
K 58 X 100°	52	29	36
K 61 X 75°	52	29	36
K 78 X 90°	52	29	36

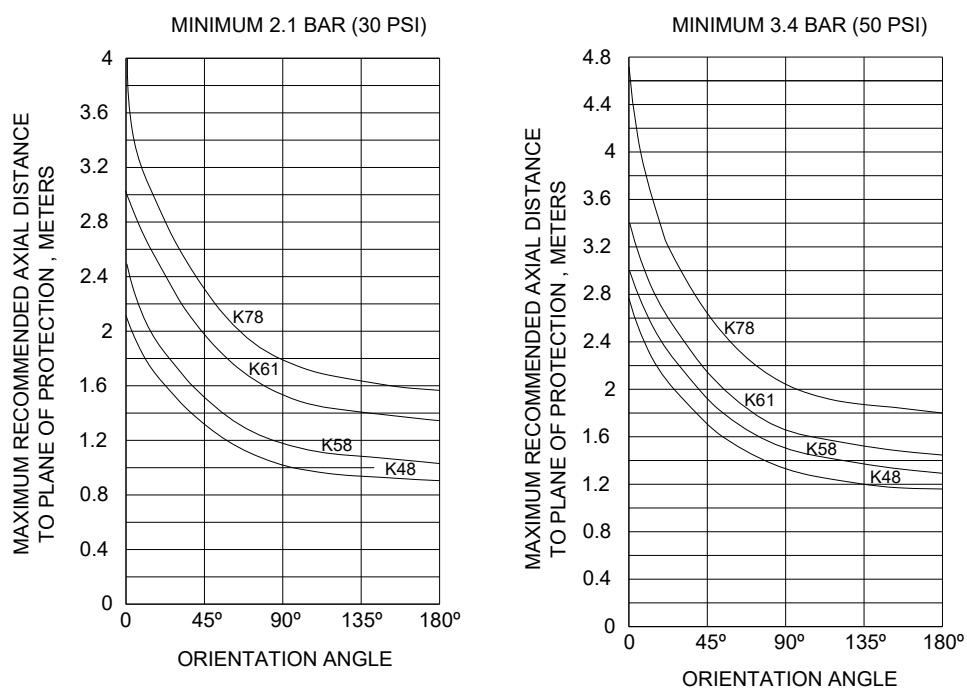
DISCHARGE CURVES



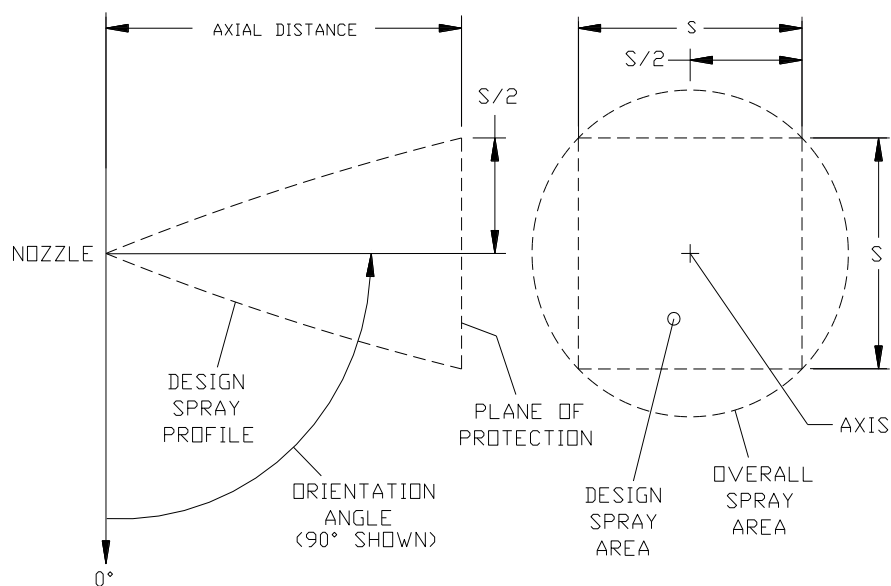
Where P is supply pressure in Kg/sq.cm., K = nozzle constant (K-factor) in metric

US K factor = Metric K factor ÷ 14.2745

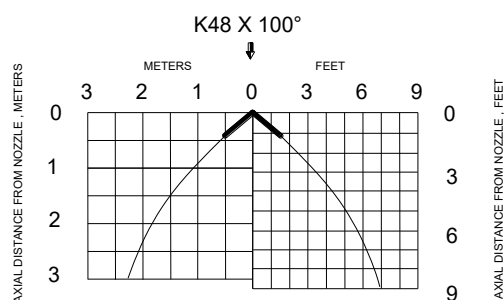
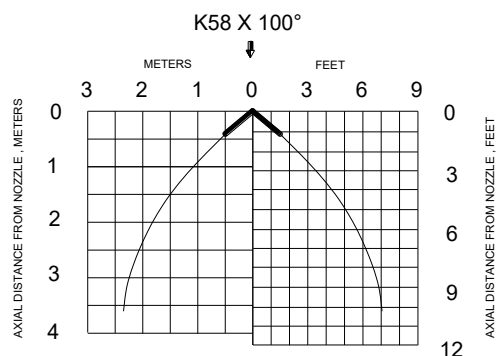
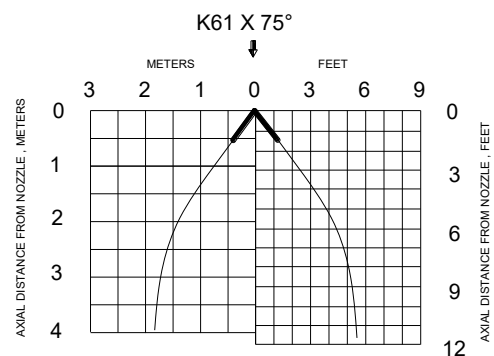
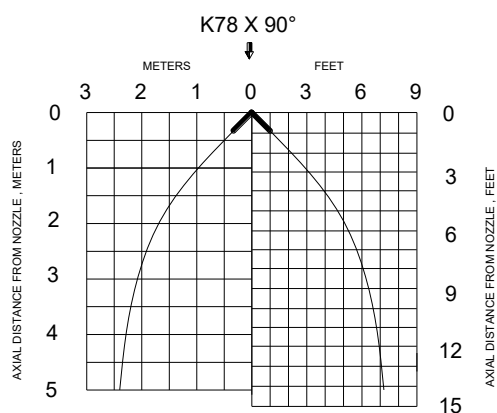
MAXIMUM RECOMMENDED AXIAL DISTANCE



NOZZLE ORIENTATION



SPRAY PATTERN



ORDERING INFORMATION

ANGLE	K FACTOR	MATERIAL	
		BRASS	STAINLESS STEEL
100°	K48 (3.36)	HV125048	HV225048
100°	K58 (4.06)	HV125058	HV225058
75°	K61 (4.27)	HV125090	HV225061
90°	K78 (5.46)	HV125100	HV225078
PLUG		25HVTAPON	

Specify:

Model	
Quantity	
K-Factor	
Spray angle	
Finish	
End connection	

The equipment presented in this bulletin is to be installed in accordance with the latest published Standard of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable. This documentation is not contractual. AG Fire Sprinkler reserves the right to any kind of change without notice.