Bulletin 106Rev.E

Model A Spray Nozzle

Features

1. Non-Automatic Fixed Pattern
2. Solid Cone Discharge
3. All Brass and Bronze Construction
4. No Moving Parts, No Orifice Less Than ¼" (6mm)
5. Three (3) Orifice Sizes and Three (3) Discharge Angles

Approvals

1. Listed by Underwriters Laboratories Inc. and Certified by UL for Canada (cULus)
2. Approved by Factory Mutual Corp. (FM).
3. N.Y.City BS&A No. 587-75-SA.
4. LPC (UK)
5. Scientific Services Laboratory (SSL, Australia)

Applications

The Reliable Model A Spray Nozzle discharges water in small droplet sizes at low velocities. The resulting low penetration spray is effective for extinguishing fires in the lighter oils including kerosene or for the control of the fire intensity of explosive hazards, thus allowing for their disposal by continuous burning.

The nozzles may also be used for cooling volatile liquid or chemical receivers exposed to a fire area to control both the temperature and pressure in the receivers.

Normally the spray nozzle forms a part of deluge type sprinkler system specifically engineered as to nozzle type and piping to provide the required degree of protection. Such systems are activated manually or by means of a separate actuation system sensing either the rate of temperature rise or the generation of products of combustion.

Installation

1/2″ NPT External Thread
2-5/8″ Total Height

Identification

Model Number is Cast on Body
Discharge Angle is Stamped on Deflector

Finishes

Bronze Lead
Chrome Wax

Ordering Information

Specify:

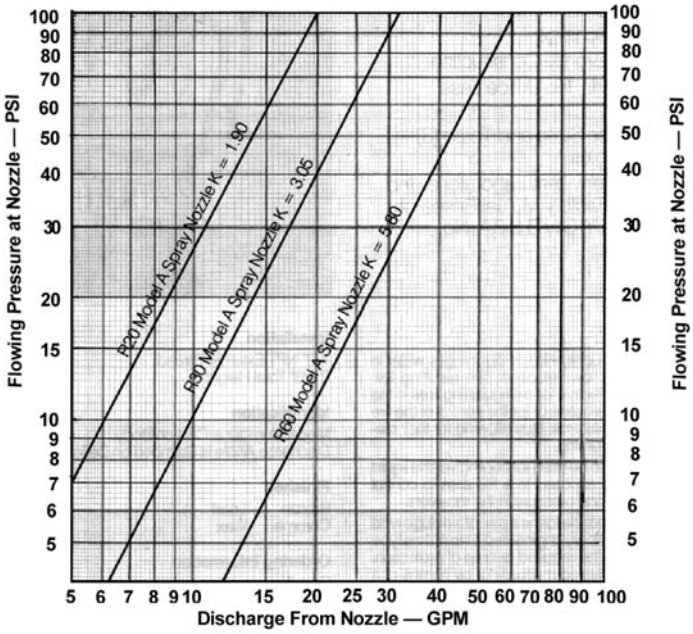
Model Number
Finish

The Reliable Automatic Sprinkler Co., Inc., 103 Fairview Park Drive, Elmsford, New York 10523

Hydraulic Data

Model	Discharge Angle	K Factor	Nozzle Diameter (in.)	For nozzles in horizontal position	
				Effective Range, ft (psi)	Dia of Range, ft (psi)
R20-80	80	1.90	0.257	10 (7)	12 (7)
				15 (54)	13 (54)
				14 (100)	14 (100)
R30-80	80	3.05	0.328	10.5 (4)	12 (4)
				18 (52)	19 (52)
				19 (100)	15 (100)
R60-80	80	5.80	0.453	10 (4)	10 (4)
				21 (52)	15 (52)
				23 (100)	14 (100)
R20-110	110	1.90	0.257	9 (7)	13 (7)
				14 (54)	17 (54)
				11 (100)	13 (100)
R30-110	110	3.05	0.328	8 (4)	12 (4)
				13 (52)	20 (52)
				11 (100)	14 (100)
R60-110	110	5.80	0.453	10 (4)	13 (4)
				16 (52)	22 (52)
				14 (100)	16 (100)
R20-140	140	1.90	0.257	6 (7)	15 (7)
				10 (54)	15 (54)
				10 (100)	10 (100)
R30-140	140	3.05	0.328	5.5 (4)	15 (4)
				11 (52)	22 (52)
				10 (100)	14 (100)
R60-140	140	5.80	0.453	7 (4)	18 (4)
				15 (52)	26 (15)
				17 (100)	15 (100)

Discharge Angle is the included conical angle of water spray coverage. Range is not noticeably affected by changes in pressure. The horizontal position generates nominal range values. Indoor range information is based on Factory Mutual Approval Standard. NFPA 15-1977 requires main pipe line strainer for waterways less than 3/8".



The equipment presented in this bulletin is to be installed in accordance with the latest published Standards 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.

Products manufactured and distributed by Reliable have been protecting life and property for over 80 years, and are installed and serviced by the most highly qualified and reputable sprinkler contractors located throughout the United States, Canada and foreign countries.

Manufactured by

Reliable®

The Reliable Automatic Sprinkler Co., Inc.

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