



Report of Materials and Equipment Acceptance Division

NYC Department of Buildings
280 Broadway, New York, NY 10007
Robert D. LiMandri, Acting Commissioner
(212) 566-5000, TTY: (212) 566-4769

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 258-93-E Vol. 19

Manufacturer: The Reliable Automatic Sprinkler Co. Inc.
1470 Smith Grove Road
Liberty, SC 29657

Trade Name(s): RASCO

Product: Sprinklers, valves and valve trims

Pertinent Code Section(s): Subchapter 17 and Reference Standard RS 17

Prescribed Test(s): Reference Standard RS 17-6A (UL 199, UL 1626, UL 260 and UL 1767)

Laboratory: Underwriters Laboratories, Inc

Test Report(s):

- 1) UL File Ex4527, Projects 05NK12046 & 06NK28557 issued May 23, 3005, revised June 28, 2007
- 2) UL File Ex3646, Projects 06NK29911 & 07CA11026 issued September 11, 2007.
- 3) UL File Ex5302, Projects 06CA56349 and , 07NK19666 issued November 16, 2006
- 4) UL File Ex2633, Projects 03NK11936, 05NK12040, 05NK12038, 05NK29099 & 06NK28557 issued February 9, 2005, revised June 28, 2007.
- 5) UL File Ex454, Projects 03NK27137, 6NKCA42201, 06CA38504, 07CA38990 & 07CA14653 issued March 8, 2007, revised December 5, 2007
- 6) UL File Ex2633, Projects 03NK11936, 05NK12040, 05NK12038, 05NK29099 & 06NK28557 issued February 9, 2005, revised June 28, 2007.
- 7) UL File Ex1391, Projects 98NK12918, 99NK21461, 02NK43614, 05NK12040, 05NK12038, 06NK28557 issued January 25, 1999, revised June 28, 2007.

Description:

1. Model DDX Valve with Type F (electric/pneumatic) and D (electric/electric) Double Interlock Trim Preaction Systems, 2, 2½ and 3-inches and 76mm size double interlock valves, for installation in the vertical position, for a rated pressure not exceeding 250 psi.
2. Reliable Automatic Sprinkler, SIN R7618 pendent and recessed pendent sprinklers, with a Component-Recognized 3.0mm glass bulb, K = 7.6, in the 155°F and 175°F temperature ratings. SIN R7618 concealed pendent sprinkler with a Component Recognized 3.0mm glass bulb, K = 7.6, in the 155°F and 175°F temperature ratings with 135°F temperature rated cover plates. The sprinklers are available in brass uncoated, bright chrome, dull chrome, black plated, and bright brass with lacquer enamel, Teflon and polyester coatings. These sprinklers have a maximum pressure of 175 psig for wet systems only for spacings and flow rates as indicted below:

SIN	Style	Temperature Rating (°F)	K-Factor	Maximum Sprinkler Spacings (ft)	Minimum Flow, gpm/ Sprinkler	Minimum Flowing Pressure, psig
R7618	Recessed Pendent	155, 175	7.6	18 by 18	21	7.6
R7618	Recessed Pendent	155, 175	7.6	20 by 20	23	9.2
R7618	Concealed :Pendent+	155, 175	7.6	16 by 16	21	7.6
R7618	Concealed :Pendent+	155, 175	7.6	18 by 18	22	8.4
R7618	Concealed Pendent+	155, 175	7.6	20 by 20	25	10.8

+ – Utilizes a 135°F temperature rated coverplate.

3. Model DDX PrePak assembled deluge systems with Type D Double Interlock trim in the 2, 2.5 and 3-inch sizes, for a rated pressure of 250 psig (1720 kPa) for connection to and use in single and double interlock pre-action systems. The deluge valves are of the clapper type and of the groove/groove end configurations, installed vertically within the PrePak assemblies.

The 2, 2.5, and 3-inch Model DDX PrePak assemblies consist of a Listed Model DDX deluge riser assembly with Type ‘D’ Double Interlock trim, Listed Gast Model 5HCD-108-M550NGX, ¾ hp (1½ hp Gast Model 7HDD-16-M750X optional for 6-inch size only), tank-mounted air compressor, an 8-gallon ASME rated air tank, Listed Model A-2 pressure maintenance device, Listed Potter Model PFC-4410-RC releasing/control panel and an electrically-operated solenoid valve. This unit is intended to provide a pre-action, single or double interlock function by electrical operation or manual operation via Listed Model ‘B’ manual emergency station.

4. Model DDX (Wet Pilot Deluge, Wet Pilot Single Interlock, Dry Pilot Deluge, Dry Pilot Single Interlock, Electric Actuation Deluge and Single Interlock (electric actuation) deluge valves in the 2, 2.5 and 3-inch and 76mm sizes, for a rated pressure of 250 psig (1724 kPa) for installation in the vertical position. The deluge valves are of the Clapper type and of the grooved-end configurations.

5.

Listing	SIN	K-Factor	Response Type	Releasing Mechanism	Sprinkler Orientation	Sprinkler Type	Temperature Ratings, °F
USL, CNL	R7216	11.2	Standard / Quick	Link	Pendent, Recessed Pendent	ECOH, ECLH	165, 212
*USL, CNL	RA7216	11.2	Standard / Quick	Bulb	Pendent, Recessed Pendent	ECOH, ECLH	155, 200
USL, CNL	R7326	11.2	Standard	Link	Upright	ECOH	165, 212
USL, CNL	R7326	11.2	Quick	Link	Upright	ECLH	165
USL, CNL	RA7326	11.2	Standard / Quick	Bulb	Upright	ECOH, ECLH	155, 200

General:

The products are constructed of a frame (Alloy C83600 or C83450 brass), deflector (Alloy C22000 or Alloy C26000 brass), and operating components, i.e., lever (C51000), strut (copper allow C65500), brass cap, gasket, Teflon film, ejector spring (stainless steel 302), Teflon-coated beryllium nickel spring, and Component-Recognized Job F3-SP, or F3-XS and Norbulb N3-XS 3mm glass bulbs or link (Beryllium-Nickel or Nickel).

The finishes are in plain brass, chrome-plated, or painted for decorative purposes.

These sprinklers may be coated with a white polyester coating intended for corrosion resistance.

6. Model DDX (Wet Pilot Deluge, Wet Pilot Single Interlock, Dry Pilot Deluge, Dry Pilot Single Interlock, Electric Actuation Deluge and Single Interlock (electric actuation) deluge valves in the 2, 2.5 and 3-inch and 76 mm sizes, for a rated pressure of 250 psig (1724 kPa) for installation in the vertical position. The deluge valves are of the Clapper type and of the grooved-end configurations.
7. Model DDX-LP dry pipe valves in the 2, 2.5 and 3-inch sizes for a rated pressure of 250 psig (1724 kPa) for installation in the vertical position. The deluge valves are of Clapper type and of the grooved-end configurations.

Pursuant to "Promulgation of the Rules relating to Material and Equipment application Procedures" dated November 5, 1992, the Bureau of Fire Prevention has no objections (letter dated April 29, 2008, F.P. Index #0803044).

Terms and Conditions: The above-described models are accepted under the following conditions:

1. Installation shall comply with the applicable NYC Building codes, rules, regulations and testing requirements, in particular with the requirements of Subchapter 17 and Reference Standards RS17-2, RS 17-2A and RS 17-2B of the Administrative Code and the NFPA codes 13, 13R, 13D, 11, 14, 15 and 16, as applicable.
2. Installation of a deluge or preaction system to operate as single interlock shall be subject to compliance with the limitations of Electrical Unit Information Bulletin 1-92 including the requirement that prohibits the cross-zoning of preaction system's electrically operated fire detectors. Cross-zoning shall be permitted only when such a system is installed with a clean agent or similar gas suppression system as the primary suppression system (first line of defense) with the deluge or preaction system being the secondary or supplemental system.
3. The valve is rated for a pressure not exceeding 250 psig.
4. Underwriters Laboratories, Inc.'s listing requirements and limitations shall be adhered to.
5. Manufacturer's installation, maintenance procedures and limitations shall be complied with.

Final Acceptance

May 19, 2008

Examined By

Donald *[Signature]*