



## Report of Materials and Equipment Acceptance Division

NYC Department of Buildings  
280 Broadway, New York, NY 10007  
Patricia Lancaster, FAIA, 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 89-92-E Vol. 37

**Manufacturer:** The Viking Corporation, 210 N. Industrial Park Road, Hastings, MI 49058

**Trade Name(s):** Viking Sprinklers

**Product:** Automatic fire sprinklers for fire protection service

**Pertinent Code Section(s):** NFPA 13, -Subchapter 17 and Reference Standard RS 17-2

**Prescribed Test(s):** UL199

**Laboratory:** Underwriters Laboratories, Inc.

**Test Report(s):** File EX643, Projects 90NK436, 91NK9882, 91NK15461, 92NK21474, 92NK24995, 92NK22885, 93NK16332, 93NK25801, 97NK30246, 97NK36974, 98NK11873, 99NK21033, 98NK20794, 01NK09248, 02NK33, 01NK51086, 02NK25369, 02NK46230, 03NK8319, 03NK22550, 03NK31725, 03NK28087, 03NK35777, 05CA08364 and 04NK15551, issued September 17, 1991, revised July 21, 2005.  
UL letter dated January 17, 2006

**Description:** Dry-type automatic fire sprinklers of the following types and temperature ratings:

Model No.	Description			
SIN VK190	<b>ITEM 1:</b> Standard Response Dry Concealed Pendent Sprinklers (5.6 K-Factor), nominal 5 mm glass bulb type, 1" NPT or 25 mm BSP. 175 psig max. For Light, Ordinary, and Extra Hazard occupancies. Deflector must be located between 3/8" and 7/8" below the ceiling.			
	"A" Dimension (Length)	Sprinkler Temperature Ratings	Cover Plate Temperature Ratings	Cover Plate Finishes
	4" to 48-1/4"	155° F	135° F	Polished Chrome or Painted
175 and 200° F		165° F	Polished Chrome or Painted	
SIN VK192	<b>ITEM 2:</b> Standard Response Large Orifice Dry Concealed Pendent Sprinklers (K-Factor – varies with length of sprinkler), nominal 5 mm glass bulb type, 1" NPT or 25 mm BSP. 175 psig max. For Light, Ordinary, and Extra Hazard occupancies. Deflector must be located between 3/8" and 7/8" below the ceiling.			
	"A" Dimension (Length)	Sprinkler Temperature Ratings	Cover Plate Temperature Ratings	Cover Plate Finishes
	4" to 48-1/4"	155° F	135° F	Polished Chrome or Painted
175° F and 200° F		165° F	Polished Chrome or Painted	
SIN VK252	<b>ITEM 3:</b> Standard Response Ordinary Hazard Dry Horizontal Pendent Sprinklers (8.0 K-Factor for lengths up to 20"), nominal 5 mm glass bulb type, 1" NPT or 25 mm BSP. 175 psig max. For Light, Ordinary Hazard occupancies. Deflector must be located between 4" and 12" below the ceiling.			
	Style	"A" Dimension (Length)	Temperature Ratings	Finishes
	Adjustable Standard	1-1/2" to 45-1/2"	155, 175, 200 and 286° F	Chrome-Enloy® or White Polyester Sprinkler with a Chrome-Enloy® Sleeve and Escutcheon
SIN VK254	Adjustable Recessed	3-1/4" to 47-1/2"	155, 175 and 200° F	Chrome-Enloy® or White Polyester
SIN VK250	Plain Barrel	3" to 47"	155, 175, 200 and 286° F	Chrome-Enloy® or Brass
SIN VK154	<b>ITEM 4:</b> Standard Response Dry Pendent Sprinklers (5.6 K-Factor), nominal 5 mm glass bulb type, 1" NPT or 25 mm BSP. 175 psig max. For Light, Ordinary, and Extra Hazard occupancies.			
	Style	"A" Dimension (Length)	Temperature Ratings	Finishes
	Adjustable Standard	1-1/2" to 45-1/2"	155, 175, 200 and 286° F	Chrome-Enloy® or White Polyester Sprinkler with a Chrome-Enloy® Sleeve and Escutcheon
SIN VK158	Adjustable Recessed	3-1/4" to 47-1/2"	155, 175 and 200° F	Chrome-Enloy® or White Polyester
SIN VK150	Plain Barrel	3" to 47"	155, 175, 200 and 286° F	Chrome-Enloy® or Brass

Model No.	Description			
SIN VK163	<b>ITEM 5:</b> Standard Response Large Orifice Dry Pendent Sprinklers (8.0 K-Factor for lengths up to 20”), nominal 5 mm glass bulb type, 1” NPT or 25 mm BSP. 175 psig max. For Light, Ordinary, and Extra Hazard occupancies.			
	<b>Style</b>	<b>“A” Dimension (Length)</b>	<b>Temperature Ratings</b>	<b>Finishes</b>
SIN VK164	Adjustable Standard	1-1/2” to 45-1/2”	155, 175, 200 and 286° F	Chrome-Enloy® or White Polyester Sprinkler with a Chrome-Enloy® Sleeve and Escutcheon
SIN VK166	Adjustable Recessed	3-1/4” to 47-1/2”	155, 175 and 200° F	Chrome-Enloy® or White Polyester
SIN VK194	Plain Barrel	3” to 47”	155, 175, 200 and 286° F	Chrome-Enloy® or Brass
SIN VK194	<b>ITEM 6:</b> Quick Response Dry Concealed Pendent Sprinkler (5.6 K-Factor), nominal 3 mm glass bulb type, 1” NPT or 25 mm BSP. 175 psig max. For Light and Ordinary Hazard occupancies. Deflector must be located between 3/8” and 7/8” below the ceiling.			
	<b>“A” Dimension (Length)</b>	<b>Sprinkler Temperature Ratings</b>	<b>Cover Plate Temperature Ratings</b>	<b>Cover Plate Finishes</b>
	4” to 48-1/4”	155° F	135° F	Polished Chrome or Painted
SIN VK177	175° F and 200° F	165° F	Polished Chrome or Painted	
	<b>ITEM 7:</b> Quick Response Large Orifice Dry Pendent Sprinklers (8.0 K-Factor for lengths up to 20”), nominal 3 mm glass bulb type, 1” NPT or 25 mm BSP. 175 psig max. For Light and Ordinary Hazard occupancies.			
SIN VK177	<b>Style</b>	<b>“A” Dimension (Length)</b>	<b>Temperature Ratings</b>	<b>Finishes</b>
	Adjustable Standard	1-1/2” to 45-1/2”	155, 175, 200 and 286° F	Chrome-Enloy® or White Polyester Sprinkler with a Chrome-Enloy® Sleeve and Escutcheon
SIN VK181	Adjustable Recessed	3-1/4” to 47-1/2”	155, 175 and 200° F	Chrome-Enloy® or White Polyester
SIN VK173	Plain Barrel	3” to 47”	155, 175, 200 and 286° F	Chrome-Enloy® or Brass
SIN VK286	<b>ITEM 8:</b> Quick Response Large Orifice Dry Pendent Fusible-Link Sprinklers (8.0 K-Factor for lengths up to 20”), 1” NPT or 25 mm BSP. 175 psig max. For Light and Ordinary Hazard occupancies.			
	<b>Style</b>	<b>“A” Dimension (Length)</b>	<b>Temperature Ratings</b>	<b>Finishes</b>
SIN VK286	Adjustable Standard	1-1/2” to 45-1/2”	165, 205, and 280° F	Chrome-Enloy® or White Polyester Sprinkler with a Chrome-Enloy® Sleeve and Escutcheon
SIN VK290	Adjustable Recessed	3-1/4” to 47-1/2”	165 and 205° F	Chrome-Enloy® or White Polyester
SIN VK282	Plain	3” to 47”	165, 205, and	Chrome-Enloy® or Brass

	Barrel		280° F	
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Model No.	Description			
	<b>ITEM 9:</b> Quick Response Ordinary Hazard Dry Horizontal Sidewall Pendent Sprinklers (8.0 K-Factor for lengths up to 20"), nominal 3 mm glass bulb type, 1" NPT or 25 mm BSP. 175 psig max. For Light and Ordinary Hazard occupancies. Deflector must be located between 4" and 12" below smooth, flat, horizontal ceilings only.			
	Style	"A" Dimension (Length)	Temperature Ratings	Finishes
SIN VK277	Adjustable Standard	1-1/2" to 45-1/2"	155, 175, 200 and 286° F	Chrome-Enloy® or White Polyester Sprinkler with a Chrome-Enloy® Sleeve and Escutcheon
SIN VK279	Adjustable Recessed	3-1/4" to 47-1/2"	155, 175 and 200° F	Chrome-Enloy® or White Polyester
SIN VK275	Plain Barrel	3" to 47"	155, 175, 200 and 286° F	Chrome-Enloy® or Brass
	<b>ITEM 10:</b> Quick Response Ordinary Hazard Dry Horizontal Sidewall Fusible-Link Sprinklers (8.0 K-Factor for lengths up to 20"), 1" NPT or 25 mm BSP. 175 psig max. For Light and Ordinary Hazard occupancies. Deflector must be located between 4" and 12" below smooth, flat, horizontal ceilings only.			
	Style	"A" Dimension (Length)	Temperature Ratings	Finishes
SIN VK288	Adjustable Standard	1-1/2" to 45-1/2"	165, 205, and 280° F	Chrome-Enloy® or White Polyester Sprinkler with a Chrome-Enloy® Sleeve and Escutcheon
SIN VK292	Adjustable Recessed	3-1/4" to 47-1/2"	165 and 205° F	Chrome-Enloy® or White Polyester
SIN VK284	Plain Barrel	3" to 47"	165, 205, and 280° F	Chrome-Enloy® or Brass

Model No. (SIN)	<b>ITEM 11:</b> Standard/Quick Response Extended Coverage Dry Concealed Pendent Sprinklers (5.6 K-Factor), nominal 3 mm glass bulb type, 1" NPT or 25 mm BSP. 175 psig max. For Light Hazard occupancy only. Deflector must be located between 3/8" and 7/8" below the ceiling.					
	"A" Dimension (Length)	Sprinkler Temperature Ratings	Maximum Area of Coverage	Minimum Water Supply Requirements	Cover Plate Temperature Ratings	Cover Plate Finishes
	<i>Standard Response Listings</i> – For Light Hazard occupancies where allowed by the installation standards being applied, with smooth, flat, horizontal ceilings only.					
VK196	4" to 48-1/4"	155° F	18 ft. x 18 ft.	33 gpm @ 34.7 psi	135° F	Polished Chrome or Painted
VK196	4" to 48-1/4"	155° F	20 ft. x 20 ft.	40 gpm @ 51.0 psi	135° F	Polished Chrome or Painted
	<i>Quick Response Listings</i> – For Light Hazard occupancies with smooth, flat, horizontal ceilings only.					
VK196	4" to 48-1/4"	135 or 155° F	16 ft. x 16 ft.	26 gpm @ 21.6 psi	135° F	Polished Chrome or Painted
VK196	4" to 48-1/4"	175° F	16 ft. x 16 ft.	26 gpm @ 21.6 psi	165° F	Polished Chrome or Painted
VK196	4" to 48-1/4"	135° F	18 ft. x 18 ft.	33 gpm @ 34.7 psi	135° F	Polished Chrome or Painted
VK196	4" to 48-1/4"	175° F	18 ft. x 18 ft.	33 gpm @ 34.7 psi	165° F	Polished Chrome or Painted
VK196	4" to 48-1/4"	135° F	20 ft. x 20 ft.	40 gpm @ 51.0 psi	135° F	Polished Chrome or Painted
VK196	4" to 48-1/4"	175° F	20 ft. x 20 ft.	40 gpm @ 51.0 psi	165° F	Polished Chrome or Painted

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 March 12, 2007, F.P. Index #0612002B.

**Terms and Conditions:** The above units are accepted on the following conditions:

1. All uses, applications and installations shall comply with all applicable New York City Building codes, rules, regulations and testing requirements, and with the requirements of Subchapter 17 entitled, "Fire Alarm, Detection and Extinguishing Equipment" of Title 27 "Construction and Maintenance", Chapter 1 "Building Code" of the New York City Administrative Code.
2. Where is applicable or where detailed guidance is lacking in NYC codes, the stipulations of National Fire Protection Association standard, NFPA 13 "Standard for the Installation of Sprinkler Systems", 2002 Edition, shall be followed.

3. Listing requirements and limitations of Underwriters Laboratories, Inc. and those outlined in the UL199 "Automatic Sprinklers for Fire – Protection Service", eleventh edition - November 4, 2005 Edition, shall be complied with.
4. Manufacturer's recommendations, installation instructions, maintenance procedures and limitations shall be complied with.
5. All shipments and deliveries of such equipment shall be provided with a metal tag, suitably placed, certifying that the equipment shipped or delivered is equivalent to those tested and acceptable for use, as provided in Section 27-131 of the New York City Building Code.

Final Acceptance April 9, 2007.  
Examined By  