

# **VIKING PRODUCT SPECIFICATIONS**

## **Spray Nozzles**

### **A. Window Sprinklers**

1. Window Sprinkler

### **B. Spray Nozzles**

2. Solid Cone Spray Nozzle
3. Frame Style Spray Nozzle
4. Model E Spray Nozzle

## **A. Window Sprinklers**

### **1. WINDOW SPRINKLER**

### **SPRAY NOZZLE 11**

Exposure protection of windows, walls, and roofs shall be accomplished by utilizing an automatic deluge system with automatic detection and an open window sprinklers. The sprinklers installed shall be listed and approved for such use. Sprinklers with a nominal orifice smaller than 3/8" will only be installed on systems equipped with an approved strainer. The window sprinklers will have a brass finish (or a finish as specified elsewhere). Window Sprinklers (formerly Model C-1) shall be the following Viking models:

SIN VK790 = 1/4" Orifice, 1.5 K, 1/2" NPT  
SIN VK791 = 5/16" Orifice, 2.1K, 1/2" NPT  
SIN VK792 = 3/8" Orifice, 3.0K, 1/2" NPT  
SIN VK793 = 7/16" Orifice, 4.3K, 1/2" NPT  
SIN VK794 = 1/2" Orifice, 5.8K, 1/2" NPT  
SIN VK795 = 5/8" Orifice, 6.9K, 3/4" NPT  
SIN VK796 = 3/4" Orifice, 7.7K, 3/4" NPT

## **B. Spray Nozzles**

### **2. SOLID CONE SPRAY NOZZLE**

### **SPRAY NOZZLE 21**

Exposure protection of hazard shall be accomplished by utilizing an automatic deluge system with electric detection and open directional nozzles of all brass construction. The nozzles installed shall be cULus Listed and FM Approved for such use. Nozzles with a nominal orifice smaller than 3/8" will only be installed on systems equipped with an approved strainer. For corrosive environments, the spray nozzles shall be electroless nickel coated. Solid Cone Spray Nozzles shall be the following Viking Models:

#### **Model A2**

K=1.2 (1,7)	30°	VK740
K=1.2 (1,7)	60°	VK741
K=1.2 (1,7)	90°	VK742
K=1.4 (2,0)	120°	VK743
K=1.4 (2,0)	140°	VK744

#### **Model A2X**

K=2.0 (2,9)	30°	VK750
K=2.0 (2,9)	60°	VK751
K=2.0 (2,9)	90°	VK752
K=2.2 (3,2)	120°	VK753
K=2.2 (3,2)	140°	VK754

#### **Model B2**

K=2.8 (4,0)	30°	VK760
K=2.8 (4,0)	60°	VK761
K=2.8 (4,0)	90°	VK762
K=3.3 (4,8)	120°	VK763
K=3.3 (4,8)	140°	VK764

#### **Model C2**

K=3.4 (4,9)	30°	VK770
K=3.4 (4,9)	60°	VK771
K=3.8 (5,5)	90°	VK772
K=3.9 (5,6)	120°	VK773
K=3.9 (5,6)	140°	VK774

#### **Model D2**

K=4.7 (6,8)	30°	VK780
K=4.7 (6,8)	60°	VK781
K=5.0 (7,2)	90°	VK782
K=5.2 (7,5)	120°	VK783
K=5.2 (7,5)	140°	VK784

### 3. FRAME STYLE SPRAY NOZZLE

### SPRAY NOZZLE 31A

Exposure hazard shall be protected by an open or closed head directional nozzle. The nozzle installed shall be cULus Listed for such use. Spray nozzles that are of the closed type shall be of all brass frame construction with a metal Belleville spring seal, coated on both sides with Teflon film. Spray nozzles with non-metallic materials shall be strictly prohibited. Nozzles with a nominal orifice smaller than 3/8" will only be installed on systems equipped with an approved strainer. For corrosive environments, the spray nozzles shall be Teflon® coated. The directional nozzles (formerly Model M) shall be the following Viking models:

#### 1/2" Orifice, 5.6 K-Factor

- SIN VK700 = 60 Degrees Pattern
- SIN VK701 = 90 Degrees Pattern,
- SIN VK702 = 120 Degrees Pattern
- SIN VK703 = 150 Degrees Pattern

#### 7/16" Orifice, 4.2 K-Factor

- SIN VK705 = 60 Degrees Pattern
- SIN VK706 = 90 Degrees Pattern,
- SIN VK707 = 120 Degrees Pattern
- SIN VK708 = 150 Degrees Pattern

#### 3/8" Orifice, 2.8 K-Factor

- SIN VK710 = 60 Degrees Pattern
- SIN VK711 = 90 Degrees Pattern,
- SIN VK712 = 120 Degrees Pattern
- SIN VK713 = 150 Degrees Pattern

#### 5/16" Orifice, 1.9 K-Factor

- SIN VK715 = 60 Degrees Pattern
- SIN VK716 = 90 Degrees Pattern
- SIN VK717 = 120 Degrees Pattern
- SIN VK718 = 150 Degrees Pattern

#### 1/4" Orifice, 1.4 K-Factor

- SIN VK720 = 60 Degrees Pattern
- SIN VK721 = 90 Degrees Pattern
- SIN VK722 = 120 Degrees Pattern
- SIN VK723 = 150 Degrees Pattern

### 4. MODEL E SPRAY NOZZLE

### SPRAY NOZZLE 32A

Exposure hazard shall be protected by an open directional nozzle. The nozzle installed shall be cULus Listed and FM Approved for such use. Spray nozzles shall be of all brass frame construction. Spray nozzles with nonmetallic materials shall be strictly prohibited. Spray Nozzles shall have a nominal K Factor of 1.2, 1.8, 2.3, 3.2, 4.1, 5.6, or 7.2. Nozzles with a nominal orifice smaller than 3/8" will only be installed on systems equipped with an approved strainer. The directional nozzles shall be the following Viking models:

- SIN VK810 = 65 Degrees Pattern
- SIN VK811 = 80 Degrees Pattern
- SIN VK812 = 95 Degrees Pattern
- SIN VK813 = 110 Degrees Pattern
- SIN VK814 = 125 Degrees Pattern
- SIN VK815 = 140 Degrees Pattern
- SIN VK816 = 160 Degrees Pattern
- SIN VK817 = 180 Degrees Pattern