

MICROMATIC® STANDARD RESPONSE HORIZONTAL SIDEWALL SPRINKLER VK104 (K5.6)

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058 Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

Visit the Viking website for the latest edition of this technical data page www.vikinggroupinc.com

1. DESCRIPTION

The Micromatic[®] Viking Standard Response Horizontal Sidewall Sprinkler VK104 is a small thermosensitive glass bulb spray sprinkler available with various finishes and temperature ratings to meet design requirements. The special Polyester and Electroless Nickel PTFE (ENT) coatings can be used in decorative applications where colors are desired. In addition, the ENT and Polyester coatings have been investigated for installation in corrosive environments and are listed/approved as indicated in the Approval Chart(s).

2. LISTINGS AND APPROVALS*

cULus Listed: Category VNIV, Light hazard occupancies only



FM Approved: Class Series 2000

- **LPCB Approved:** for LH and OH hazard classes according to the LPC Rules for Automatic Sprinkler Installations incorporating BS EN 12845
- CE Certified: Standard EN 12259-1, EC-certificate of constancy of performance 0832-CPR-S0021, EC-Certificate of Conformmity 0832-CPD-2001

China Approval: Approved according to China GB standard.

NOTE: Other international approval certificates are available upon request. Refer to the approval charts and design criteria for Listing and approval requirements that must be followed.

3. TECHNICAL DATA

Specifications:

Minimum Operating Pressure: 7 psi (0.5 bar) Rated to 175 psi (12 bar) water working pressure Factory tested hydrostatically to 500 psi (34.5 bar) Nominal K-Factor: 5.6 U.S. (80.6 metric**)

**Metric K-factor measurement shown is when pressure is measured in Bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0. Glass-bulb fluid temperature rated to -65 °F (-55 °C) Overall Length: 2-1/2" (64 mm)

Material Standards:

Frame Casting: Brass UNS-C84400 or QM Brass Deflector: Copper UNS-C19500 Bulb: Glass, nominal 5 mm diameter Belleville Spring Sealing Assembly: Nickel Alloy, coated on both sides with PTFE Tape Screw: Brass UNS-C36000 Pip Cap and Insert Assembly: Copper UNS-C11000 and Stainless Steel UNS-S30400. For ENT Coated Sprinklers: Belleville Spring-Exposed, Screw and Pip Cap-ENT Coated For Polyester Coated Sprinklers: Belleville Spring-Exposed

Ordering Information: Refer to Table 1.

4. INSTALLATION

Refer to appropriate NFPA Installation Standards.

5. OPERATION

During fire conditions, the heat-sensitive liquid in the glass bulb expands, causing the glass to shatter, releasing the pip cap and sealing spring assembly. Water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

6. INSPECTIONS, TESTS AND MAINTENANCE

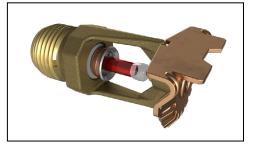
Refer to NFPA 25 for Inspection, Testing and Maintenance requirements.

7. AVAILABILITY

The Micromatic[®] Viking Standard Response Horizontal Sidewall Sprinkler VK104 is available through a network of domestic and international distributors. See The Viking Corporation web site for the closest distributor or contact The Viking Corporation.

8. GUARANTEE

For details of warranty, refer to Viking's current list price schedule or contact Viking directly.







MICROMATIC® STANDARD RESPONSE HORIZONTAL SIDEWALL SPRINKLER VK104 (K5.6)

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058

Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com Visit the Viking website for the latest edition of this technical data page www.vikinggroupinc.com

TABLE 1: ORDERING INFORMATIONInstructions: Using the sprinkler base part number,
(1) add the suffix for the desired Finish(2) add the suffix for the desired Temperature Rating.

(-,											
Sprinkler	Size		1: Finishes		2: Temperature Ratings						
Base Part No.	NPT Inch	BSPT mm	Description	Suffix ¹	Nominal Rating	Bulb Color	Hazard Classification	Max. Ambient Ceiling Temperature ²	Suffix		
12995	1/2		Brass	А	135 °F (57 °C)	Orange	Ordinary	100 °F (38 °C)	A		
12988	12988 15		Chrome	F	155 °F (68 °C)	Red	Ordinary	100 °F (38 °C)	В		
20230	20230 15		White Polyester 3,4	M-/W	175 °F (79 °C)	Yellow	Intermediate	150 °F (65 °C)	D		
			Black Polyester 3,4	M-/B	200 °F (93 °C)	Green	Intermediate	150 °F (65 °C)	E		
			Wax	С	286 °F (141 °C)	Blue	High	225 °F (107 °C)	G		
			Wax over Polyester	V-/W	360 °F (182 °C)	Mauve	Extra High	300 °F (149 °C)	Н		
			ENT ^{3,4,6,7}	JN							

Example: 12995MB/W = VK104 with White Polyester Finish and 155 °F (68 °C) Nominal temperature rating. This sprinkler is to be installed into an area with a maximum ambient temperature of 100 °F (38 °C) meaning if the area will experience temperatures above the maximum ambient rating, you shall use a higher temperature-rated sprinkler.

Corrosion Resistant Coatings⁴

· White Polyester and Black Polyester in all temperature ratings.

• Wax-Coated Brass and Wax over Polyester^{3,4} for sprinklers with the following temperature ratings:

155 °F (68 °C) Lt. Brown Wax | 175 °F (79 °C) Brown Wax | 200 °F (93 °C) Brown Wax | 286 °F (141 °C) Dk. Brown Wax⁵

Accessories

Sprinkler Wrenches (see Figure 1):

- A. Standard Wrench: Part No. 21475M/B
- B. Standard Wrench for Wax Coated Sprinklers: Part No. 10896W/B
- C. Socket Wrench for Recessed Pendent Sprinklers: Part No. 13655W/B (A 1/2" ratchet is required, not available from Viking)
- D. Socket Wrench for Wax Coated Sprinklers: Part No. 13577W/B (A 1/2" ratchet is required, not available from Viking)

Sprinkler Cabinet:

- A. Up to 6 sprinklers: Part number 01724A (available since 1971).
- B. 6-12 Sprinklers: Part number 01725A (available since 1971).

Footnotes

- 1. Where a dash (-) is shown in the Finish suffix designation, insert the desired Temperature Rating suffix. See example above.
- 2. Based on NFPA 13, NFPA 13R, and NFPA 13D. Other limits may apply, depending on fire loading, sprinkler location, and other requirements of the Authority Having Jurisdiction. Refer to specific installation standards.
- 3. UL Listed as corrosion resistant.
- 4. The corrosion resistant coatings have passed the standard corrosion test required by the approving agencies indicated in the Approval Chart(s). These tests cannot and do not represent all possible corrosive environments. Prior to installation, verify through the end-user that the coatings are compatible with or suitable for the proposed environment. For automatic sprinklers, the coatings indicated are applied to the exposed exterior surfaces only. Note that the spring is exposed on sprinklers with Polyester and ENT coatings. For ENT coated automatic sprinklers, the waterway is coated.
- 5. Wax melting point is 170 °F (76 °C) for 286 °F (141 °C) temperature rated sprinklers. For more information regarding wax coatings, refer to Bulletin Form No. F_010201.

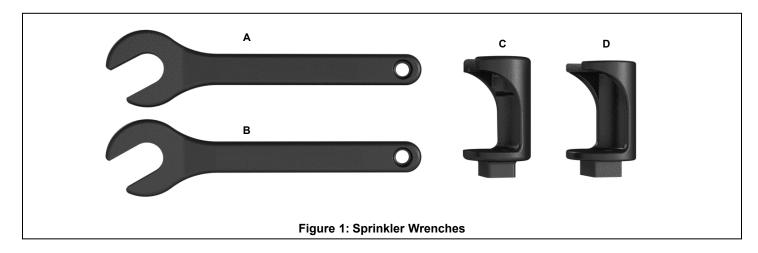
6. FM Approved as corrosion resistant.

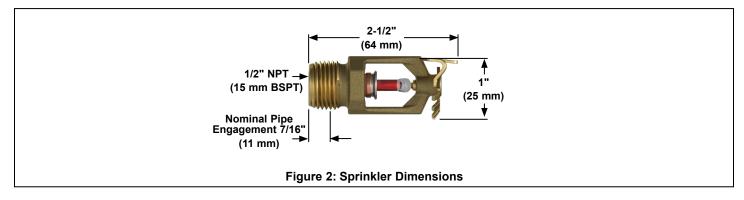
7. Not available in 135 °F (57 °C)

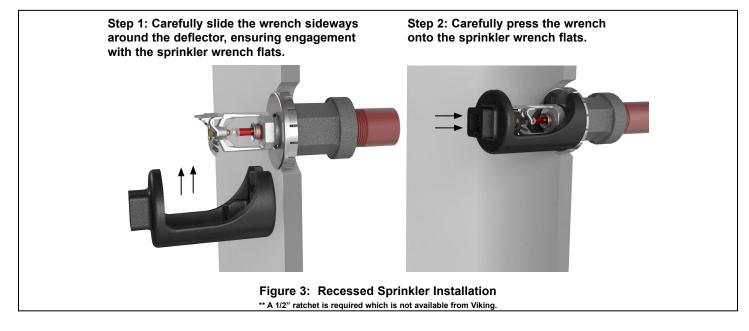


MICROMATIC® STANDARD RESPONSE HORIZONTAL SIDEWALL SPRINKLER VK104 (K5.6)

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058 Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com Visit the Viking website for the latest edition of this technical data page www.vikinggroupinc.com









The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058

MICROMATIC® STANDARD RESPONSE HORIZONTAL SIDEWALL SPRINKLER VK104 (K5.6)

			1	Micron	•	Standard I For Light	Respon Hazard	Chart 1 (UL) se Horizontal Sidewall Sp Occupancies Only PSI (12 Bar) WWP	orinkler VK104	A1X∢	Temperature Finish Escutcheon			
Sprinkler		Thread Size		Nominal K-factor		Overall L		Listings and Approvale ³						
Base Part Number ¹	SIN	NPT BSPT		U.S. metric ²		Inches	mm	cULus⁴	LPCB ¹¹	MED	CE ⁸	China		
12995	VK104	1/2"		5.6	80.6	2-1/2"	64	A1Z, B1X, B2X, C4Z, E4Y	A1Z, B2Z	C1 ⁹	C1Z ⁸	Approva		
12988	VK104		15 mm		80.6	2-1/2"	64	A1Z, B1X, B2X, C4Z, E4Y	A1Z, B2Z	C1 ⁹	C1Z ⁸			
2023010	VK104		15 mm		80.6	2-1/2"	64	D3				D3		
		•				ICE - Proc	duct Be	low - No longer offered.		·				
10224	VK104	1/2"		5.6	80.6	2-1/2"	64	B2W, B1W, A1X	A1Z	C1 ⁹	C1Y ⁸	C1Z ⁹		
10171	VK104		15 mm	5.6	80.6	2-1/2"	64	B2W, B1W, A1X	A1Z	C1 ⁹	C1Y ⁸	C1Z ⁹		
Approved 1 = Brass 2 = Wax- 3 = Chron 4 = ENT ⁶	Finish s, Chrom Coated E ne	Code e, Whi Brass a	ite Polye and Wa	ester ^{6,7} , ‹ Over	d 200 °F (93 ° and Black Pol Polyester (corr	yester ^{6,7}	stant)							
Approved														
X = Star Y = Insta	dard sur alled with	face-n surfac	nounted ce-mour	escutc nted es	heons or reces	ssed with t ecessed w	he Vikir	ng Model E-1, E-2, E-3, or M ng Model E-1, E-2, or E-3 R Viking Model E-1 Recessed	ecessed Escutch		cheons			
Footnotes	;													
 Metric K-fa This table Listings an Listed by l cULus List Other colo 	ictor meas shows the id Approva Jnderwrite ed as corr rs are ava Standard E	sureme listings als are l ers Labo rosion-r ilable o EN 122	nt shown s and app limited to pratories resistant. on reques 59-1, EC	is wher provals a Light H Inc. for t with th certifica	available at the t azard Occupanc use in the U.S. a e same Listings te of conformity	asured in Ba me of printi ies where a nd Canada. and Approv 0832-CPD-(ar. When ng. Othe llowed by als as th 0021 and	pressure is measured in kPa, d r approvals may be in process. y the installation standards bein e standard colors. d 0832-CPD-2003.		actor show	n by 10.0.			

- MED Certified, Standard LN 1223-1, LOCENTICAL OF CONTINUE COST MED 1000 and COST MED 1000.
 Approved according to China GB standard.
 LPCB Approved for LH and OH hazard classes according to the LPC Rules for Automatic Sprinkler Installations incorporating BS EN 12845.

DESIGN CRITERIA - UL (Also refer to Approval Chart 1 above.)

cULus Listing Requirements:

- The Micromatic® Viking Standard Response Horizontal Sidewall Sprinkler VK104 is cULus Listed as indicated in the Approval Chart for installation in accordance with the latest edition of NFPA 13 for sidewall standard spray sprinklers.
- For use in Light Hazard occupancies only where allowed by the installation standards being applied. Locate the deflector 4" to 12" (102 mm to 305 mm) below the ceiling. Protection areas and maximum spacing shall be in accordance with the tables provided in NFPA 13. Minimum spacing allowed is 6 ft. (1.8 m).

- Align the top of the deflector parallel with the ceiling.
- Locate no less than 4" (102 mm) from end walls.
- Maximum distance from end walls shall be no more than one-half of the allowable distance between sprinklers. The distance shall be measured perpendicular to the wall. The sprinkler installation and obstruction rules contained in NFPA 13 for sidewall standard spray sprinklers must be followed.

IMPORTANT: Always refer to Bulletin Form No. F_091699 - Care and Handling of Sprinklers. Also refer to Bulletin Form No. F_080614 for general care, installation, and maintenance information. Viking sprinklers are to be installed in accordance with the latest edition of Viking technical data, the appropriate standards of NFPA, LPCB, APSAD, VdS or other similar organizations, and also with the provisions of governmental codes, ordinances, and standards, whenever applicable.



MICROMATIC® STANDARD RESPONSE HORIZONTAL SIDEWALL SPRINKLER VK104 (K5.6)

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058

Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com Visit the Viking website for the latest edition of this technical data page www.vikinggroupinc.com

Approval Chart 1 (FM) Micromatic [®] Viking Standard Response Horizontal Sidewall Sprinkler VK104 Maximum 175 PSI (12 Bar) WWP										
Sprinkler Base Part	SIN	Thread Size		Nominal K-factor		Overall Length		FM Approvals ³		
Number ¹		NPT	BSPT	U.S.	metric ²	Inches	mm	(Refer also to UL Design Criteria.)		
12995 VK104		1/2"		5.6	80.6	2-1/2"	64	A1Y, B1X, C2Y, D2W		
12988	VK104		15 mm	5.6	80.6	2-1/2"	64	A1Y, B1X, C2Y, D2W		
20230 ⁶	VK104		15 mm	5.6	80.6	2-1/2"	64	E3		
NOTICE - Product Below - No longer offered.										
10224	VK104	1/2"		5.6	80.6	2-1/2"	64	A1Y, B1X		
10171 VK104 15 mm 5.6 80.6 2-1/2" 64 A1Y, B1X							A1Y, B1X			
Approved To	emperature Ra	ting Code	s							
B = 135 °F (57 C = 155 °F (68	7 °C), 155 °F (68 7 °C), 155 °F (68 3 °C), 175 °F (79 3 °C), 175 °F (79 3 °C)	°C), 175 °F °C), 200 °F	(79 °C), and 2 (93 °C), and 2	200°F (93	°C)	41 °C)				
Approved Finish Code Approved Escutcheon Codes										
1 = Brass and 2 = ENT⁵ 3 = Chrome	Chrome	X = Standard surface-mounted escutcheons or recessed with the Viking Model E-1, E-2, E-3, or G-1 Recessed Escutcheons Y = Standard surface-mounted escutcheons only W = Standard surface-mounted escutcheons or recessed with the Viking Model E-1 Recessed Escutcheons								
Footnotes										
 Metric K-factor This table shot Listings and A 	mber shown. For con or measurement sho ows the listings and Approvals are limited as corresion resiste	wn is when p approvals av I to Light Haz	ressure is meas ailable at the tin	sured in Bar. ne of printing	When pressure . Other approval	is measured in s may be in pro	ocess.	ne metric K-factor shown by 10.0. ed.		

5. FM Approved as corrosion resistant.

6. Approved according to China GB standard.

DESIGN CRITERIA - FM

(Also refer to Approval Chart 2 above.)

FM Approval Requirements:

The Micromatic[®] Viking Standard Response Horizontal Sidewall Sprinkler VK104 is FM Approved as standard response sidewall **Non-Storage** sprinklers, as indicated in the FM Approval Guide. For specific application and installation requirements, reference the latest applicable FM Loss Prevention Data Sheets (including 2-0) and Technical Advisory Bulletins. FM Global Loss Prevention Data Sheets and Technical Advisory Bulletins contain guide-lines relating to, but not limited to: minimum water supply requirements, hydraulic design, ceiling slope and obstructions, minimum and maximum allowable spacing, and deflector distance below the ceiling.

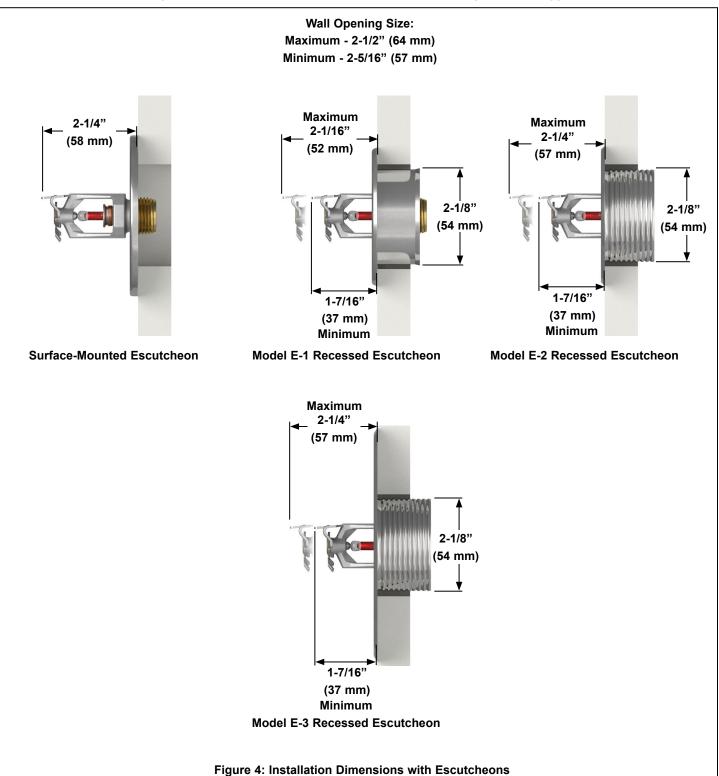
NOTE: The FM installation guidelines may differ from cULus and/or NFPA criteria.

IMPORTANT: Always refer to Bulletin Form No. F_091699 - Care and Handling of Sprinklers. Also refer to Bulletin Form No. F_080614 for general care, installation, and maintenance information. Viking sprinklers are to be installed in accordance with the latest edition of Viking technical data, the appropriate standards of NFPA, FM Global, LPCB, APSAD, VdS or other similar organizations, and also with the provisions of governmental codes, ordinances, and standards, whenever applicable.



MICROMATIC® STANDARD RESPONSE HORIZONTAL SIDEWALL SPRINKLER VK104 (K5.6)

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058 Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com Visit the Viking website for the latest edition of this technical data page www.vikinggroupinc.com





CARE AND HANDLING OF SPRINKLERS

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058 Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

SPRINKLERS ARE FRAGILE - HANDLE WITH CARE!

General Handling and Storage:

· Store sprinklers in a cool, dry place.

- Protect sprinklers during storage, transport, handling, and after installation.
- Use the original shipping containers. DO NOT place sprinklers loose in boxes, bins, or buckets.
- · Keep sprinklers separated at all times. DO NOT allow metal parts to contact sprinkler operating elements.

For Pre-Assembled Drops:

- · Protect sprinklers during handling and after installation.
- For recessed assemblies, use the protective sprinkler cap (Viking Part Number 10364).

Sprinklers with Protective Shields or Caps:

- · DO NOT remove shields or caps until after sprinkler installation and there no longer is potential for mechanical damage to the sprinkler operating elements.
- · Sprinkler shields or caps MUST be removed BEFORE placing the system in service!
- Remove the sprinkler shield by carefully pulling it apart where it is snapped together.
- Remove the cap by turning it slightly and pulling it off the sprinkler.

Sprinkler Installation:

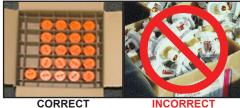
- · DO NOT use the sprinkler deflector or operating element to start or thread the sprinkler into a fitting.
- · Use only the designated sprinkler head wrench! Refer to the current sprinkler technical data page to determine the correct wrench for the model of sprinkler used.
- · DO NOT install sprinklers onto piping at the floor level.
- Install sprinklers after the piping is in place to prevent mechanical damage.
- DO NOT allow impacts such as hammer blows directly to sprinklers or to fittings, pipe, or couplings in close proximity to sprinklers. Sprinklers can be damaged from direct or indirect impacts.
- · DO NOT attempt to remove drywall, paint, etc., from sprinklers.
- Take care not to over-tighten the sprinkler and/or damage its operating parts! Maximum Torque:

1/2" NPT:	14 ft-lbs. (19.0 N-m)
3/4" NPT:	20 ft-lbs. (27.1 N-m)
1" NPT:	30 ft-lbs. (40.7 N-m)



(Original container used)

(Placed loose in box)



(Protected with caps)

(Protective caps not used)



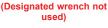
CORRECT (Piping is in place at the ceiling)

INCORREC1 (Sprinkler at floor level)



CORRECT (Special installation wrenches)

INCORRECT





Any sprinkler with a loss of liquid from the glass bulb or damage to the fusible element should be destroyed. Never install sprinklers that have been dropped, damaged, or exposed to temperatures exceeding the maximum ambient temperature allowed. Sprinklers that have been painted in the field must be replaced per NFPA 13. Protect sprinklers from paint and paint overspray in accordance with the installation standards. Do not clean sprinklers with soap and water, ammonia, or any other cleaning fluid. Do not use adhesives or solvents on sprinklers or their operating elements.

Refer to the appropriate technical data page and NFPA standards for complete care, handling, installation, and maintenance instructions. For additional product and system information Viking data pages and installation instructions are available on the Viking Web site at www.vikinggroupinc.com.



CARE AND HANDLING OF SPRINKLERS

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058

Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

PROTECTIVE SPRINKLER SHIELDS AND CAPS

General Handling and Storage:

Many Viking sprinklers are available with a plastic protective cap or shield temporarily covering the operating elements. The snapon shields and caps are factory installed and are intended to help protect the operating elements from mechanical damage during shipping, storage, and installation. NOTE: It is still necessary to follow the care and handling instructions on the appropriate sprinkler technical data sheets* when installing sprinklers with bulb shields or caps.

WHEN TO REMOVE THE SHIELDS AND CAPS:

NOTE: SHIELDS AND CAPS MUST BE REMOVED FROM SPRINKLERS BEFORE PLACING THE SYSTEM IN SERVICE!

Remove the shield or cap from the sprinkler only after checking all of the following:

• The sprinkler has been installed*.

• The wall or ceiling finish work is completed where the sprinkler is installed and there no longer is a potential for mechanical damage to the sprinkler operating elements.

SHIELDS AND CAPS MUST BE REMOVED FROM SPRINKLERS BEFORE PLACING THE SYSTEM IN SERVICE!



Figure 1: Sprinkler shield being removed from a pendent sprinkler.



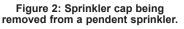




Figure 3: Sprinkler cap being removed from and upright sprinkler.

HOW TO REMOVE SHIELDS AND CAPS:

No tools are necessary to remove the shields or caps from sprinklers. DO NOT use any sharp objects to remove them! **Take care not to cause mechanical damage to sprinklers when removing the shields or caps.** When removing caps from fusible element sprinklers, use care to prevent dislodging ejector springs or damaging fusible elements. NOTE: Squeezing the sprinkler cap excessively could damage sprinkler fusible elements.

- To remove the shield, simply pull the ends of the shield apart where it is snapped together. Refer to Figure 1.
- To remove the cap, turn it slightly and pull it off the sprinkler. Refer to Figures 2 and 3.

NOTICE Refer to the current sprinkler technical data page to determine the correct sprinkler wrench for the model of sprinkler used.

A WARNING Never install sprinklers that have been dropped, damaged, or exposed to temperatures in excess of the maximum ambient temperature allowed.

* Refer to the appropriate current technical data pages for complete care, handling, and installation instructions. Data pages are included with each shipment from Viking or Viking distributors. They can also be found on the Web site at www. vikinggroupinc.com.



CARE AND HANDLING OF SPRINKLERS

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058 Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

ACAUTION CONCEALED COVER ASSEMBLIES ARE FRAGILE! TO ASSURE SATISFACTORY PERFORMANCE OF THE PRODUCT, HANDLE WITH CARE.



GENERAL HANDLING AND STORAGE INSTRUCTIONS:

- Do not store in temperatures exceeding 100 °F (38 °C). Avoid direct sunlight and confined areas subject to heat.
- Protect sprinklers and cover assemblies during storage, transport, handling, and after installation.
- -- Use original shipping containers.
- -- Do not place sprinklers or cover assemblies loose in boxes, bins, or buckets.
- Keep the sprinkler bodies covered with the protective sprinkler cap any time the sprinklers are shipped or handled, during testing of the system, and while ceiling finish work is being completed.
- Use only the designated Viking recessed sprinkler wrench (refer to the appropriate sprinkler data page) to install these sprinklers. **NOTE:** The protective cap is temporarily removed during installation and then placed back on the sprinkler for protection until finish work is completed.
- Do not over-tighten the sprinklers into fittings during installation.
- Do not use the sprinkler deflector to start or thread the sprinklers into fittings during installation.
- · Do not attempt to remove drywall, paint, etc., from the sprinklers.
- Remove the plastic protective cap from the sprinkler before attaching the cover plate assembly. **PROTECTIVE CAPS** <u>MUST</u> **BE REMOVED FROM SPRINKLERS BEFORE PLACING THE SYSTEM IN SERVICE!**

Refer to the appropriate current technical data pages for complete care, handling, and installation instructions. Data pages are included with each shipment from Viking or Viking distributors. They can also be found on the Web site at www. vikinggroupinc.com.

NIKING

BULLETIN

CARE AND HANDLING OF SPRINKLERS

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058

Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

USE THE FOLLOWING PRECAUTIONS WHEN HANDLING WAX-COATED SPRINKLERS

Many of Viking's sprinklers are available with factory-applied wax coating for corrosion resistance. These sprinklers MUST receive appropriate care and handling to avoid damaging the wax coating and to assure satisfactory performance of the product.

General Handling and Storage of Wax-Coated Sprinklers:

- Store the sprinklers in a cool, dry place (in temperatures below the maximum ambient temperature allowed for the sprinkler temperature rating. Refer to Table 1 below.)
- · Store containers of wax-coated sprinklers separate from other sprinklers.
- Protect the sprinklers during storage, transport, handling, and after installation.
- Use original shipping containers.
- · Do not place sprinklers in loose boxes, bins, or buckets.

Installation of Wax-Coated Sprinklers:

Use only the special sprinkler head wrench designed for installing wax-coated Viking sprinklers (any other wrench may damage the unit).

- Take care not to crack the wax coating on the units.
- For touching up the wax coating after installation, wax is available from Viking in bar form. Refer to Table 1 below. The coating MUST be repaired after sprinkler installation to protect the corrosion-resistant properties of the sprinkler.
- Use care when locating sprinklers near fixtures that can generate heat. Do not install sprinklers where they would be exposed to temperatures exceeding the maximum recommended ambient temperature for the temperature rating used.
- Inspect the coated sprinklers frequently soon after installation to verify the integrity of the corrosion resistant coating. Thereafter, inspect representative
 samples of the coated sprinklers in accordance with NFPA 25. Close up visual inspections are necessary to determine whether the sprinklers are being
 affected by corrosive conditions.

TABLE 1									
Sprinkler Temperature Rating (Fusing Point)	Wax Part Number	Wax Melting Point	Maximum Ambient Ceiling Temperature ¹	Wax Color					
155 °F (68 °C) / 165 °F (74 °C)	02568A	148 °F (64 °C)	100 °F (38 °C)	Light Brown					
175 °F (79 °C)	04146A	161 °F (71 °C)	150 °F (65 °C)	Brown					
200 °F (93 °C)	04146A	161 °F (71 °C)	150 °F (65 °C)	Brown					
220 °F (104 °C)	02569A	170 °F (76 °C)	150 °F (65 °C)	Dark Brown					
286 °F (141 °C)	02569A	170 °F (76 °C)	150 °F (65 °C)	Dark Brown					
¹ Based on NEPA-13. Other limits may apply, depending on fire loading, sprinkler location, and other requirements of the Authority Having									

Based on NFPA-13. Other limits may apply, depending on fire loading, sprinkler location, and other requirements of the Authority Having Jurisdiction. Refer to specific installation standards.

Never install sprinklers that have been dropped, damaged, or exposed to temperatures in excess of the maximum ambient temperature allowed.

Refer to the appropriate current technical data pages for complete care, handling, and installation instructions. Data pages are included with each shipment from Viking or Viking distributors. They can also be found on the Web site at www. vikinggroupinc.com.



REGULATORY AND HEALTH WARNINGS

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058 Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com Visit the Viking website for the latest edition of this technical data page www.vikinggroupinc.com

1. DESCRIPTION

Regulatory and Health Warnings applying to materials used in the manufacture and construction of fire protection products are provided herin as they relate to legally mandated jurisdictional regions.

WARNING

STATE OF CALIFORNIA, USA

Installing or servicing fire protection products such as sprinklers, valves, piping etc. can expose you to chemicals including, but not limited to, lead, nickel, butadiene, titaninum dioxide, chromium, carbon black, and acrylonitrile which are known to the State of California to cause cancer or birth defects or other reproductive harm.

For more information, go to www.P65Warnings.ca.gov

2. WARRANTY TERMS AND CONDITIONS

For details of warranty, refer to Viking's current list price schedule at www.vikinggroupinc.com or contact Viking directly.