MICROMATIC[®] STANDARD RESPONSE PENDENT SPRINKLER VK102 (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

TECHNICAL DATA

1. DESCRIPTION

The Viking Micromatic® Standard Response Pendent VK102 Sprinkler is a small, thermosensitive, glass-bulb spray sprinkler available in several different 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, these coatings have been investigated for installation in corrosive environments and are listed/approved as indicated in the Approval Charts.

Viking standard response sprinklers may be ordered and/or used as open sprinklers (glass bulb and pip cap assembly removed) on deluge systems. Refer to Ordering Instructions.

2. LISTINGS AND APPROVALS

c(ULus Listed: Category VNIV

NIKING®

FM Approved: Classes 2001, 2002, 2015, 2017, 2043

VdS VdS Approved: Certificate G414006 & G414004

LPCB Approved

CE: Standard EN 12259-1, DOP_Sprinklers_LPCB_5-2-19 & DOP_VK102WAX_2-12-19

MED Certified: Standard EN 12259-1, EC-certificate 0832-MED-1003

China Approval: Approved according to China GB standard.

NOTE: Other International approval certificates are available upon request. Refer to 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)* Maximum Working Pressure: 175 psi (12 bar) wwp Factory tested hydrostatically to 500 psi (34.5 bar) Thread size: 1/2" NPT, 15 mm BSPT Nominal K-factor: 5.6 U.S. (80.6 metric**) Glass-bulb fluid temperature rated to -65 °F (-55 °C) Overall Length: 2-1/4" (57 mm) cULus Listing, FM Approval, and NFPA 13 installs require a minimum of 7 psi (0.5 bar). The minimum operating pressure for LPCB and CE Approvals ONLY is 5 psi (0.35 bar). **Metric K-factor measurement shown is in Bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0. Material Standards: Frame Casting: Brass UNS-C84400 or QM Brass Deflector: Phosphor Bronze UNS-C51000 (Not for FM Approval) or 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 Polyester Coated Sprinklers: Belleville Spring-Exposed

For ENT coated Sprinklers: Belleville Spring - Exposed, Screw and Pipcap - ENT plated. **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.



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TECHNICAL DATA

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7. AVAILABILITY

The Viking Micromatic® Standard Response Upright Sprinkler VK100 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.

Instructions: 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	Hazard Classification	Max. Ambient Ceiling Temperature ²	Suffix
12987	1/2		Brass	A	135 °F (57 °C)	Orange	Ordinary	100 °F (38 °C)	A
12989		15	Chrome	F	155 °F (68 °C)	Red	Ordinary	100 °F (38 °C)	В
20229		15	White Polyester 3,5	M-/W	175 °F (79 °C)	Yellow	Intermediate	150 °F (65 °C)	D
			Black Polyester 3,5	M-/B	200 °F (93 °C)	Green	Intermediate	150 °F (65 °C)	E
			Wax	С	212 °F (100 °C)	Green	Intermediate	150 °F (65 °C)	М
			Wax over Polyester	V-/W	286 °F (141 °C)	Blue	High	225 °F (107 °C)	G
ENT ^{3,4,5} JN 360 °F (182 °C) Mauve Extra High 300 °F (149 °C)								Н	
					500 °F (260 °C)	Black	Ultra High ⁶	465 °F (240 °C)	L
			ver Polyester ⁷ for sprin 175 °F (79 °C) Bro				-) Dk. Brown Wax ⁷	
Accessorie	S								
C. Socket V D. Socket V E. Optional Sprinkler Ca A. Up to 6	d Wrencł d Wrench Wrench f Wrench f Protecti binet: sprinkler:	n: Part No. n for Wax C or Recesse or Wax Coa ve Sprinkle s: Part num	21475M/B Coated Sprinklers: Parl ed Pendent Sprinklers: ated Sprinklers: Part N er Cap Remover/Escut	Part No. 7 lo. 13577V cheon Inst e since 197	13655W/B (A 1/2" r V/B (A 1/2" ratchet caller Tool ⁹ : Part Nc 71).	is require		•,	
· · ·	inkiers:	Part numbe	er 01725A (available si	ince 1971)	l.				
Footnotes									
 2. Based on Ni Jurisdiction. 3. UL Listed as 4. FM Approver 5. The corrosion 	FPÀ 13, N Refer to s corrosior d corrosio n resistar cannot ar	IFPA 13R, a pecific instal resistant. n resistant. t and corros nd do not rep	llation standards. ion proofing coatings hav	ts may app e passed th sive enviror	ly, depending on fire ne standard corrosion nments. Prior to instal	loading, sp test require lation, verif	vrinkler location, and ed by the approving y through the end-u	other requirements of the Author agencies indicated in the Approva ser that the coatings are compati	al 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. Sprinklers of Ultra-High temperature rating are intended for use inside ovens, dryers, or similar enclosures with normal operating temperatures above 300 °F (149 °C). Where the ambient temperature around the Ultra-High temperature rated sprinklers. For more inforamation regarding wax coatings, refer to Bulletin Form No. F_010201.

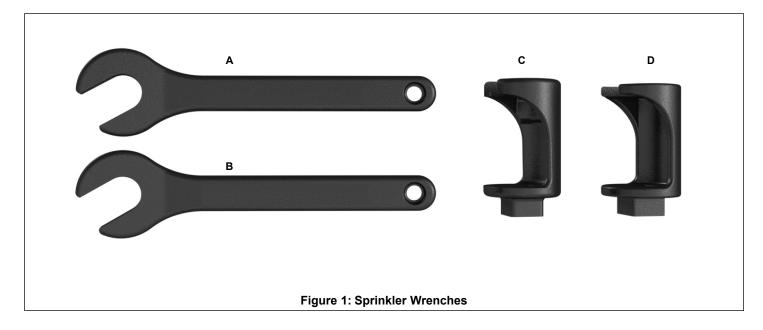
7. Wax melting point is 170 °F (76 °C) for 286 °F (141 °C) temperature rated sprinklers. For more inforamation regarding wax coatings, refer to Bulletin Form No. F_010201.

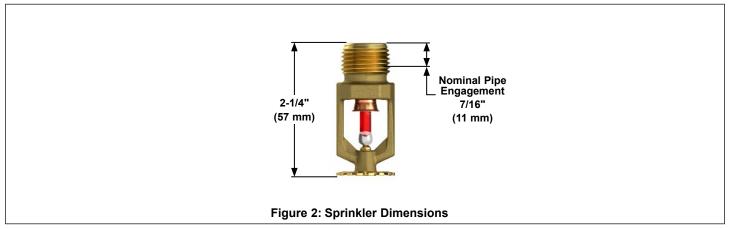
8. Allows use from the floor by attaching a length of 1" diameter CPVC tubing to the tool. Ideal for sprinkler. Refer to Bulletin F_051808.



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				N	licromati	c [®] Stand	ard Re	II Chart 1 (UL) sponse Pendent Sprinkler 75 PSI (12 bar) WWP	VK10	2	Tem Finis 1X ← Escu	h	KEY licable)		
Sprinkler Base Part	SIN	Thread Size		Nominal K-factor		Overall Length		Listings and Approvals ³ (Refer also to UL Design Criteria.)							
Number ¹	SIN	NPT	BSPT	U.S.	metric ²	Inches	mm	cULus⁴	VdS	LPCB	CE ⁸	MED [®]	China Approval		
12987	VK102	1/2"	15 mm	5.6	80.6	2-1/4"	57	A1, B3, B1Y, C4, D2, E5, G5Z	A1	A1, B3, B1Y		F2X			
12989	VK102		15 mm	5.6	80.6	2-1/4"	57	A1, B3, B1Y, C4, D2, E5, G5Z	A1	A1, B3, B1Y	F1, G1Y, B4 ¹²	F2X			
20229 ¹⁰	VK102		15 mm	5.6	80.6	2-1/4"	57	E6					E6		
					N	OTICE - P	roduct	Below - No longer offered.							
10139	VK102	1/2"	15 mm	5.6	80.6	2-1/4"	57	A1, B3, B1Y, C4, D2, E5, G5Z							
10173	VK102		15 mm	5.6	80.6	2-1/4"	57	A1, B3, B1Y, C4, D2, E5, G5Z	A1	A1, B3, B1Y		F2X			
18020	VK102	1/2"	15 mm	5.6	80.6	2-1/4"	57	A1, B3, B1Y, C4, D2, E5, G5Z	A1	A1, B3, B1Y	F1, G1X	F2X			
Approved	Tempe	rature	e Ratino	Code	s										
Approved Finish Codes 1 = Brass, Chrome, White Polyester ^{5,6} and Black Polyester ^{5,6} 2 = Brass and Chrome 3 = Wax-Coated Brass and Wax Over Polyester ⁵ 4 = High Temperature 200 °F (93 °C) Wax Coating (corrosion resistant); maximum ambient temperature allowed at ceiling = 150 °F (65 °C)															
5 = EŇT⁵ 6 = Chro	me		Ocales												
Approved															
Y = Stan	dard surf dard surf	ace-mo	ounted es	scutche	on or rece	-3 Recess ssed with ssed with	the Vik	utcheon ing Model E-1, E-2, or E-3 Re ing Model E-1 Recessed Esc	ecesse utcheo	d Escutcheon n	1				
 Base part number is shown. For complete part number, refer to Viking's current price schedule. Metric K-factor shown is for use when pressure is measured in bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0. This table shows the listings and approvals available at the time of printing. Check with the manufacturer for any additional approvals. Listed by Underwriters Laboratories Inc. for use in the U.S. and Canada. cULus Listed as corrosion resistant. Other colors are available on request with the same Listings and Approvals as the standard colors. Sprinklers of Ultra-High temperature rating are intended for use inside ovens, dryers, or similar enclosures with normal operating temperatures above 300 °F (149 °C). Where the ambient temperature around the Ultra-High temperature rated sprinkler is significantly reduced below 300 °F (149 °C), the response time of the Ultra-High temperature rated sprinkler may be severely retarded. CE: Standard EN 12259-1, EC-certificate of conformity 0832-CPD-0021. MED Certified, Standard EN 12259-1, EC-certificate of conformity 0832-MED-1003 and 0832-MED-1008. Approved according to China GB standard. CE: Standard EC 12259-1, Declaration of Performance DOP_Sprinklers_LPCB_5-2-19 & DOP_VK102WAX_2-12-19 															
cULus Listi	DESIGN CRITERIA - UL (Also refer to Approval Chart 1.)														

cULus Listing Requirements:

The Viking Micromatic0[®] Standard Response Pendent Sprinkler VK102 is cULus Listed as indicated in Approval Chart 1 for installation in accordance with the latest edition of NFPA 13 for standard spray sprinklers.

- Designed for use in Light, Ordinary, and Extra Hazard occupancies.
- The sprinkler installation rules contained in NFPA 13 for standard spray pendent sprinklers must be followed.

IMPORTANT: Always refer to Bulletin Form No. F_091699 - Care and Handling of Sprinklers. Also refer to 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.



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Approval Chart 2 (FM) Micromatic [®] Standard Response Pendent Sprinkler VK102 Maximum 175 PSI (12 bar) WWP										
Sprinkler Base Part Number ¹	SIN	Thread Size		Nominal K-Factor		Overall Length		FM Approvals ³		
		NPT	BSPT	U.S.	metric ²	Inches	mm	(Refer also to Design Criteria below.)		
12987	VK102	1/2"	15 mm	5.6	80.6	2-1/4"	57	A1, B2, C3, D1, E4, G1Y, G4Z		
12989	VK102		15 mm	5.6	80.6	2-1/4"	57	A1, B2, C3, D1, E4, G1Y, G4Z		
20229 ⁷	VK102		15 mm	5.6	80.6	2-1/4"	57	E5		
		NOTICE -	Product Bel	ow - Limite	ed Availabili	ty (Contact L	ocal Vikin	ng Office)		
10139	VK102	1/2"	15 mm	5.6	80.6	2-1/4"	57	A1, B2, C3, D1, E4, G1Y, G4Z		
10173	VK102		15 mm	5.6	80.6	2-1/4"	57	A1, B2, C3, D1, E4, G1Y, G4Z		
18020	18020 VK102 1/2" 15 mm 5.6 80.6 2-1/4" 57 A1, B2, C3, D1, G1Y									
E = 155 °F (68 °C F = 135 °F (57 °C G = 155 °F (68 °C	C), 155 °F (68	3 °C), 175 °F	(79 °C), and	1 200 [°] F (93	5), 360 °F (18 3 °C)	82 °C), and 5	UU °F (260	[°] C) [»]		
Approved Finish	Codes									
1 = Brass, Chrome, White Polyester ^{5,6} and Black Polyester ^{5,6} 2 = Wax-Coated Brass (corrosion resistant) 3 = High Temperature 200 °F (93 °C) Wax Coating (corrosion resistant); maximum ambient temperature allowed at the ceiling = 150 °F (65 °C) 4 = ENT ⁶ 5 = Chrome										
Approved Escut	cheon Cod	es								
Y = Standard surface-mounted escutcheon or recessed with the Viking Model E-1, E-2, or E-3 Recessed Escutcheon Z = Standard surface-mounted escutcheon or recessed with the Viking Model E-1 Recessed Escutcheon										
Footnotes										
 This table shows the Other colors are available 	n is for use wh listings and a alable on reque	nen pressure is pprovals availates with the same same same same same same same sam	measured in ble at the time me Approvals	bar. When pr e of printing. as the standa	ressure is mea Check with the ard colors.	sured in kPa, d manufacturer	for any addit	tric K-factor shown by 10.0. ional approvals. nal operating temperatures above 300 °F (149 °		

5. Sprinklers of Ultra-High temperature rating are intended for use inside ovens, dryers, or similar enclosures with normal operating temperatures above 300 °F (149 °C). Where the ambient temperature around the Ultra-High temperature rated sprinkler is significantly reduced below 300 °F (149 °C), the response time of the Ultra-High temperature rated sprinkler may be severely retarded.

FM approved as corrosion resistant.
 Approved according to Chipa CB standa

Approved according to China GB standard.

DESIGN CRITERIA - FM (Also refer to Approval Chart 2.)

FM Approval Requirements:

The Viking Micromatic[®] Standard Response Pendent Sprinkler VK102 is is FM Approved as standard response **Non-Storage** pendent sprinkler as indicated in the FM Approval Guide. For specific application and installation requirements, reference the latest applicable FM Loss Prevention Data Sheets (including Data Sheet 2-0). FM Global Loss Prevention Data Sheets contain guidelines 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.

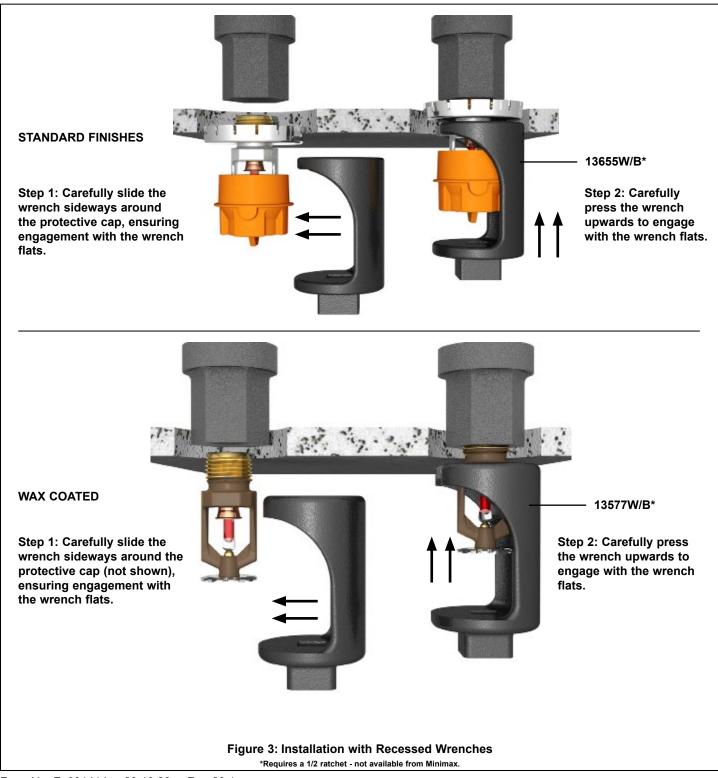
NOTE: The FM installation guidelines may differ from cULus and/or NFPA criteria.

IMPORTANT: Always refer to Bulletin Form No. F_091699 - Care and Handling of Sprinklers. Also refer to 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.



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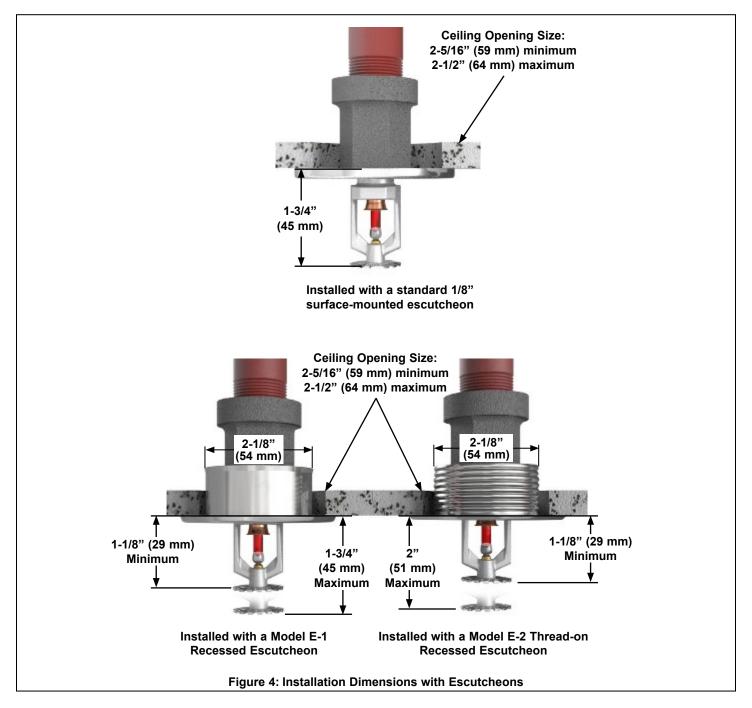
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CARE AND HANDLING OF SPRINKLERS

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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)



CORRECT INCORRECT

(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 (Designated wrench not

used)



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.





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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.



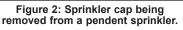




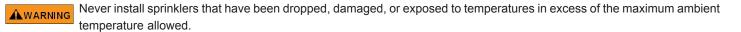
Figure 3: Sprinkler cap being removed from and upright sprinkler.

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.



* 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.



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



(Pendent Cover 12381 shown)



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 MUST 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

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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.