

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

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 atmospheres and are listed/approved as corrosion resistant as indicated in the Approval Charts. (Note: **FM Global approves the ENT coating as corrosion resistant**. FM Global has no approval classification for Polyester coatings as corrosion resistant.)

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

- ேயு **cULus Listed**: Category VNIV
 - FM Approved: Class Series 2000
- VdS VdS Approved: Certificate G414006 & G414004
- LPCB Approved
- **CE Certified:** Standard EN 12259-1, EC-certificate of conformity 0832-CPD-2021
- (CCCF Approved: Approved by the China Certification Center for Fire Products (CCCF)
- 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 BSP
- Nominal K-Factor: 5.6 U.S. (80.6 metric**)

Glass-bulb fluid temperature rated to -65 $^\circ\text{F}$ (-55 $^\circ\text{C})$

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).

Material Standards:

Frame Casting: Brass UNS-C84400 or QM Brass

Deflector: Phosphor Bronze UNS-C51000++ 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.

++Not for FM Approval.

Ordering Information: (Also refer to the current Viking price list.)

Order Micromatic[®] Standard Response Pendent VK102 by first adding the appropriate suffix for the sprinkler finish and then the appropriate suffix for the temperature rating to the sprinkler base part number.

Finish Suffix: Brass = A, Chrome = F, White Polyester = M-/W, Black Polyester = M-/B, Wax Coated = C, Wax Over Polyester = V-/W, ENT = JN





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Temperature Suffix: 135 °F (57 °C) = A, 155 °F (68 °C) = B, 175 °F (79 °C) = D, 200 °F (93 °C) = E, 212 °F (100 °C) = M, 286 °F (141 °C) = G, 360 °F (182 °C) = H, 500 °F (260 °C) = L.

For example, sprinkler VK102 with a 1/2" thread, Brass finish and a 155 °F (68 °C) temperature rating = Part No. 12987AB **Available Finishes And Temperature Ratings:** Refer to Table 1.

Accessories: (Also refer to the Viking website.)

Sprinkler Wrenches:

- A. Standard Wrench: Part No. 21475M/B (available since 2017).
- B. Standard Wrench for Wax Coated Sprinklers: Part No. 10896W/B (available since 2000)
- C. Socket Wrench for Recessed Pendent Sprinklers: Part No. 13655W/B* (available since 2006)
- D. Optional Protective Sprinkler Cap Remover/Escutcheon Installer Tool** Part No. 15915 (available since 2010.)
- E. Socket Wrench for Wax Coated Sprinklers: Part No. 13577W/B* (available since 2006)
- *A ¹/₂" ratchet is required (not available from Viking).

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

- A. Six-head capacity: Part No. 01724A (available since 1971)
- B. Twelve-head capacity: Part No. 01725A (available since 1971)

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 Viking Micromatic[®] Standard Response Pendent Sprinkler VK102 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.



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Sprinkler Temperature Classification	Sprinkler Nominal Temperature Rating ¹	Maximum Ambient Ceiling Temperature ²	Bulb Colo
Ordinary	135 °F (57 °C)	100 °F (38 °C)	Orange
Ordinary	155 °F (68 °C)	100 °F (38 °C)	Red
Intermediate	175 °F (79 °C)	150 °F (65 °C)	Yellow
Intermediate	200 °F (93 °C)	150 °F (65 °C)	Green
High	286 °F (141 °C)	225 °F (107 °C)	Blue
Extra High	360 °F (182 °C)	300 °F (149 °C)	Mauve
Ultra High ³	500 °F (260 °C)	465 °F (240 °C)	Black

Sprinkler Finishes: Brass, Chrome, White Polyester, Black Polyester, and ENT

Corrosion-Resistant Coatings⁴: White Polyester and Black Polyester in all temperature ratings. ENT in all temperature ratings except 135 °F (57 °C). Wax-Coated Brass and Wax over Polyester⁵ 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

 212 °F (100 °C) Dk. Brown Wax⁵
 286 °F (141 °C) Dk. Brown Wax⁵

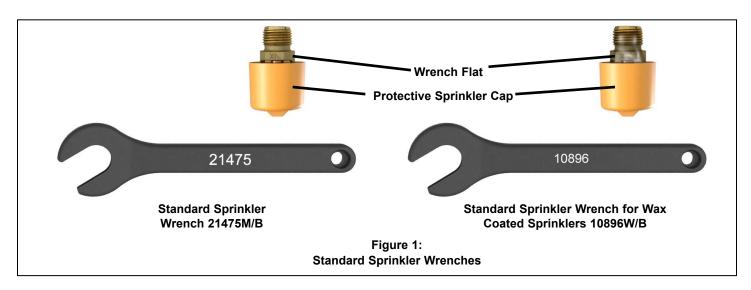
Footnotes

¹ The sprinkler temperature rating is stamped on the deflector.

² 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.

³ 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), response time may be severely retarded.

⁴ The corrosion-resistant coatings have passed the standard corrosion test required by the approving agencies indicated in the Approval Charts. 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 212 °F (100 °C) and 286 °F (141 °C) temperature rated sprinklers.





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Approval Chart 1 (UL) Micromatic [®] Standard Response Pendent Sprinkler VK102 Maximum 175 PSI (12 bar) WWP														
Sprinkler Base Part	SIN	Threa	ad Size		Nominal K-Factor			Listings and Approvals ³ (Refer also to UL Design Criteria.)						
Number ¹		NPT	BSP	U.S.	metric ²	Inches	mm	cULus⁴	VdS	LPCB	۲E	۲	(1)	
						Standard	Orifice							
12987	VK102	1/2"	15 mm	5.6	80.6	2-1/4"	57	A1, B4, B1Y, C5, D3, E6, G6Z	A2	A2, B4, B2Y	F2, G2Y			
12989	VK102		15 mm	5.6	80.6	2-1/4"	57	A1, B4, B1Y, C5, D3, E6, G6Z	A2	A2, B4, B2Y	F2, G2Y			
19776	VK102	1/2"		5.6	80.6	2-1/4"	57	-					E7	
20229	VK102		15 mm	5.6	80.6	2-1/4"	57						E7	
			NOTICE -	Produc	t Below - Li	mited Avai	lability (Contact Local Viking Office)						
10139	VK102	1/2"	15 mm	5.6	80.6	2-1/4"	57	A1, B4, B1Y, C5, D3, E6, G6Z						
10173	VK102		15 mm	5.6	80.6	2-1/4"	57	A1, B4, B1Y, C5, D3, E6, G6Z	A2	A2, B4, B2Y				
18020	VK102	1/2"	15 mm	5.6	80.6	2-1/4"	57	A1, B4, B1Y, C5, D3, E6, G6Z	A2	A2, B4, B2Y	F2, G2X	F2 ^{9, 10}		
Approved Temperature Ratings A - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), 286 °F (141 °C), and 360 °F (182 °C) B - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), and 200 °F (93 °C) C - 286 °F (141 °C) D - 500 °F (260 °C) ⁷ E - 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), 286 °F (141 °C), 360 °F (182 °C), and 500 °F (260 °C) ⁷ F - 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), 286 °F (141 °C), and 360 °F (182 °C) G - 155 °F (68 °C), 175 °F (79 °C), and 200 °F (93 °C)					 Brass, Chrome, White Polyester^{5,6}, and Black Polyester^{5,6} Brass, Chrome, White Polyester⁶, and Black Polyester⁶ Brass and Chrome Wax-Coated Brass and Wax Over Polyester⁵ High Temperature 200 °F (93 °C) Wax Coating (corrosion resistant); maximum ambient temperature allowed at ceiling = 150 °F (65 °C) 					Approved Escutcheons X - Recessed with the Viking Micromatic [®] Mode E-1, E-2, or E-3 Recessed Escutcheon Y - Standard surface-mounted escutcheon or the Viking Microfast® Model F-1 Adjustable Escutcheor or recessed with the Viking Micromatic [®] Model E-1				
. ,							Foo	tnotes						
¹ Base part nu	mber is sh	own. For	complete pa	art numbe	r. refer to Vik	ina's current								

² 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.

³ This table shows the listings and approvals available at the time of printing. Check with the manufacturer for any additional approvals.

⁴Listed by Underwriters Laboratories Inc. for use in the U.S. and Canada.

⁵ cULus Listed as corrosion resistant.

⁶ Other colors are available on request with the same Listings and Approvals as the standard colors.

⁷ 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.

⁸ CE Certified, Standard EN 12259-1, EC-certificate of conformity 0832-CPD-0021.

⁹ MED Certified, Standard EN 12259-1, EC-certificate of conformity 0832-MED-1003 and 0832-MED-1008.

¹⁰ MED Certified, RINA Certificate No. MED497705C5

DESIGN CRITERIA - UL

(Also refer to Approval Chart 1.)

cULus Listing Requirements:

The Viking Micromatic[®] 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 page 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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°C), 200 °F (93 °C), 212 °F (100 °C), 286 °F (141 °C), and 360 °F (182 °C) $Approved Finishes$ B - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), 200 °F C - 286 °F (141 °C) $D - 500 °F (260 °C)^5$ E - 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), 286 °F (141 °C), 360 °F (182 °C), and 500 °F (260 °C)^5 $F - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), and 500 °F (260 °C)^5$ F - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), and 200 °F (93 °C), 286 °F $F - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), and 500 °F (260 °C)^5$ $F - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), and 500 °F (260 °C)^5$ $F - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), and 500 °F (260 °C)^5$ $F - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), and 200 °F (93 °C)$			Micr	omatic® St	andard R	al Char esponse P 175 PSI (12	endent Spr	inkler VK	C102 Temperature KEY Finish A1X ← Escutcheon (if applicable)		
Part Number* NPT BSP U.S. metric² Inches mm (Refer also to Design Criteria below.) Standard Orifice 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 NOTICE - Product Below - Limited Availability (Contact Local Viking 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 10173 VK102 1/2" 15 mm 5.6 80.6 2-1/4" 57 A1, B2, C3, D1, E4, G1Y, G4Z 18020 VK102 1/2" 15 mm 5.6 80.6 2-1/4" 57 A1, B2, C3, D1, E4, G1Y, G4Z C.2 ad6 °F (141 °C), and 360 °F (182 °C) 150 °F (68 °C), 175 °F (79 °C), 200 °F 15 F	•	SIN	Thread Size		Nominal K-Factor		Overall Length		FM Approvals ³		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			NPT	BSP	U.S.	metric ²	Inches	mm	(Refer also to Design Criteria below.)		
12989 VK102 15 mm 5.6 80.6 2-1/4" 57 A1, B2, C3, D1, E4, G1Y, G4Z NOTICE - Product Below - Limited Availability (Contact Local Viking Office) 10139 VK102 1/2" 15 mm 5.6 80.6 2-1/4" 57 A1, B2, C3, D1, E4, G1Y, G4Z 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 10173 VK102 1/2" 15 mm 5.6 80.6 2-1/4" 57 A1, B2, C3, D1, E4, G1Y, G4Z 18020 VK102 1/2" 15 mm 5.6 80.6 2-1/4" 57 A1, B2, C3, D1, E4, G1Y, G4Z At 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), 200 °F °C, 200 °F (93 °C) 15 °F (68 °C), 175 °F (79 °C), 200 °F Paproved Finishes 1 Paproved Finishes 1 - Brass, Chrome, White Polyester ⁴ , and Black Polyester ⁴ 1 Black Polyester ⁴ 2 <td></td> <td></td> <td></td> <td></td> <td>Sta</td> <td>andard Orifi</td> <td>ce</td> <td></td> <td></td>					Sta	andard Orifi	ce				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	12987	VK102	1/2"	15 mm	5.6	80.6	2-1/4"	57	A1, B2, C3, D1, E4, G1Y, G4Z		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	12989	VK102		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 VK102 $1/2"$ 15 mm 5.6 80.6 $2-1/4"$ 57 A1, B2, C3, D1, E4, G1Y, G4ZApproved Temperature RatingsA - 135 °F (57 °C), 155 °F (68 °C), 212 °F (100 °C), 286 °F (141 °C) $Approved Finishes$ $Approved Finishes$ B - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), 200 °F $Approved Finishes$ $Approved Finishes$ 1 - Brass, Chrome, White Polyester4, (93 °C), and 212 °F (100 °C) $1/2$ °F (79 °C), 200 °F (93 °C), 200 °F $Approved Finishes$ C - 286 °F (141 °C) D - 500 °F (260 °C)5 $Approved Finishes$ $1 - Brass, Chrome, White Polyester4,2 - Wax-Coated Brass (corrosion resistant)3 - High Temperature 200 °F (93 °C) WaxCoating (corrosion resistant); maximum am-bient temperature allowed at the ceiling =150 °F (65 °C)4 - ENT^6Z - Standard surface-mounted escutcheoor re-cessed with the Viking MicromaticeModel E-1.2 - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), and200 °F (93 °C)A fight Temperature allowed at the ceiling =150 °F (65 °C)4 - ENT^6Z - Standard surface-mounted escutcheoor re-cessed with the Viking MicromaticeModel E-1$		·	NOTICE -	Product Bel	low - Limit	bw - Limited Availability (Contact Local Viking Office)					
18020 VK102 1/2" 15 mm 5.6 80.6 2-1/4" 57 A1, B2, C3, D1, G1Y Approved Temperature Ratings A - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), 212 °F (100 °C), 286 °F (141 °C), and 360 °F (182 °C) Approved Finishes Approved Finishes Approved Finishes B - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), 200 °F 1 - Brass, Chrome, White Polyester ⁴ , and Black Polyester ⁴ Y - Standard surface-mounted escutche on or the Viking Microfast® Model F-1 C - 286 °F (141 °C) - 500 °F (260 °C) ⁵ - High Temperature 200 °F (93 °C) Wax 2 - Wax-Coated Brass (corrosion resistant) Adjustable Escutcheon or recessed with th Viking Microfast® Model E-1, E-2, or E-Recessed Escutcheon C - 286 °F (141 °C) 3 - High Temperature allowed at the ceiling (corrosion resistant); maximum ambient temperature allowed at the ceiling 150 °F (65 °C) Z - Standard surface-mounted escutcheon C - 141 °C), 360 °F (182 °C), and 500 °F (260 °C) ⁵ - ENT° - ENT° Z - Standard surface-mounted escutcheon Z - Standard surface-mounted escutcheon C - 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), 286 °F - High Temperature allowed at the ceiling 150 °F (65 °C) - ENT° Z - Standard surface-mounted escutcheon C - 150 °F (93 °C) - 155 °F (68 °C), 175 °F (79 °C), and - ENT° - ENT°	10139	VK102	1/2"	15 mm	5.6	80.6	2-1/4"	57	A1, B2, C3, D1, E4, G1Y, G4Z		
Approved Temperature RatingsA - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), 200 °F $(93 °C)$, 200 °F (93 °C), 212 °F (100 °C), 286 °F (141 °C), and 360 °F (182 °C)B - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), 200 °FB - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), 200 °FC - 286 °F (141 °C)D - 500 °F (260 °C) ⁵ E - 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), 286 °F(141 °C), 360 °F (182 °C), and 500 °F (260 °C) ⁵ F - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), and 200 °F (93 °C), and 500 °F (260 °C) ⁵ F - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), and 200 °F (93 °C)A - ENT ⁶	10173	VK102		15 mm	5.6	80.6	2-1/4"	57	A1, B2, C3, D1, E4, G1Y, G4Z		
A - 135 °F (57 °C), 155 °F (68 °C), 212 °F (100 °C), 286 °F (141 °C), and 360 °F (182 °C) B - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), and 212 °F (100 °C) C - 286 °F (141 °C) D - 500 °F (260 °C) ⁵ E - 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), 286 °F (141 °C), 360 °F (182 °C), and 500 °F (260 °C) ⁵ F - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), and 200 °F (93 °C) 200 °F (93 °C)	18020	VK102	1/2"	15 mm	5.6	80.6	2-1/4"	57	A1, B2, C3, D1, G1Y		
	A - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79				Approved Finishes 1 - Brass, Chrome, White Polyester ⁴ , and Black Polyester ⁴ 2 - Wax-Coated Brass (corrosion resistant) 3 - High Temperature 200 °F (93 °C) Wax Coating (corrosion resistant); maximum am- bient temperature allowed at the ceiling = 150 °F (65 °C)				Y - Standard surface-mounted escutch eon or the Viking Microfast® Model F- Adjustable Escutcheon or recessed with th Viking Micromatic® Model E-1, E-2, or E- Recessed Escutcheon Z - Standard surface-mounted escutched or re- cessed with the Viking Micromatic		

¹ Base part number is shown. For complete part number, refer to Viking's current price schedule.

² 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.

³ This table shows the listings and approvals available at the time of printing. Check with the manufacturer for any additional approvals.

⁴ Other colors are available on request with the same Approvals as the standard colors.

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.

⁶ FM approved as corrosion resistant.

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.

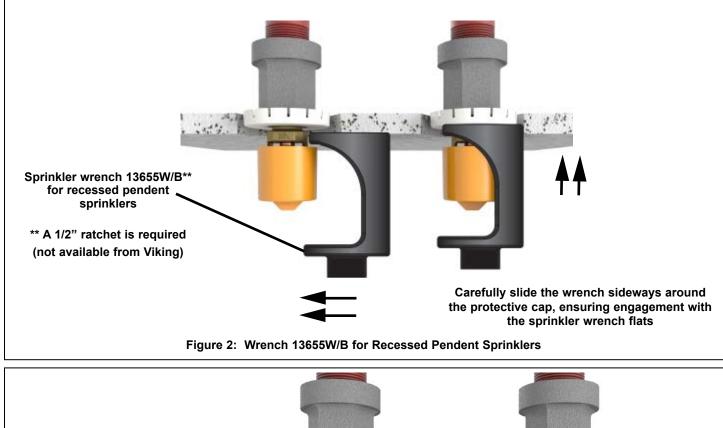
NOTE: The FM installation guidelines may differ from cULus and/or NFPA criteria.

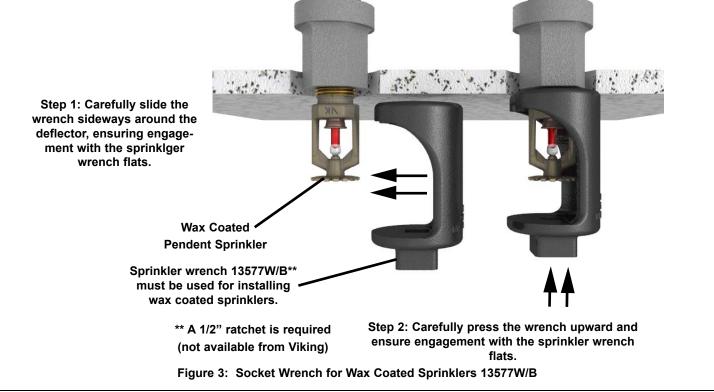
IMPORTANT: Always refer to Bulletin Form No. F_091699 - Care and Handling of Sprinklers. Also refer to page F_080614 for general care, installation, and maintenance information. Viking sprinklers are to be installed in accordance with the latest edition of Viking technical data, the appropriate standards 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 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





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