



TECHNICAL DATA

**MICROMATIC® AND
MicromaticHP® STANDARD
RESPONSE SPRINKLERS**

1. PRODUCT NAME

Viking Micromatic® Model M and MicromaticHP® Model M Standard Response Sprinklers

- Available Styles: Upright, Pendent, and Conventional

2. MANUFACTURER

The Viking Corporation
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Hastings, Michigan 49058, U.S.A.
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3. PRODUCT DESCRIPTION

Viking Micromatic® and MicromaticHP® Standard Response Sprinklers are small thermosensitive spray sprinklers available in several finishes, temperature ratings, and orifice sizes to meet design requirements. The small frame and 5 mm glass bulb provide a pleasing appearance. Used in conjunction with one of the various corrosion-resistant coatings, the units provide protection against many corrosive environments. In addition, the Polyester finishes and Teflon® coating can also be used in decorative applications where colors are desired.

During fire conditions, the heat-sensitive liquid in the glass bulb expands, causing the bulb 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.

Viking Standard Response Glass-Bulb Style Sprinklers may be ordered and/or used as open sprinklers (glass bulb and pip cap assembly removed) on deluge systems.

4. TECHNICAL DATA LISTINGS AND APPROVALS

Refer to the charts on pages 11 b-d.
Spacing Requirements: Max. spacing 15 ft. (4,6 m), min. spacing 6 ft. (1,8 m).
Glass bulb fluid temperature rated to -65 °F (-55 °C).

Spring: U.S.A. Patent No. 4,167,974
Min. Operating Pressure: 7 psi (48,3 kPa).

RATED WATER WORKING PRESSURE Sprinklers 09992, 09993, 09994, and 09995 are rated for use with water working pressures ranging from the minimum 7 psi (48,3 kPa) up to 250 psi (1 724 kPa) for high-pressure systems. High-pressure (HP) sprinklers can be identified by locating "250" stamped on the deflector.

All other Part Nos. not mentioned above are rated to a maximum 175 psi (1 207 kPa) wwp.

Factory tested hydrostatically to 500 psi (3 448 kPa).

SPRINKLER MATERIALS

Frame: Brass Castings UNS-C84400
Deflector: Brass UNS-C51000, Brass UNS-C26000, or Copper UNS-C19500

Note: Units of measure in parentheses may be approximations.

Form No. F_100397



Sprinkler Temperature Classification	Nominal Sprinkler Temperature Rating (Fusing Point)	Max. Ambient Ceiling Temperature ¹	Bulb Color ²
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
Intermediate	212 °F (100 °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 ⁴	500 °F (260 °C)	465 °F (240 °C)	Black

Sprinkler Finishes: Brass, Chrome-Enloy®, White Polyester (White Poly finish for Sprinkler Base Part Nos. 10138, 10139, 10141, 10173, and 10220), Black Polyester (Black Poly finish for Sprinkler Base Part Nos. 10138, 10139, and 10173), and Black Teflon®

Corrosion-Resistant Coatings³: White Polyester (White Poly finish for Sprinkler Base Part Nos. 10138, 10139, 10141, 10173, and 10220 only), Black Polyester (Black Poly finish for Sprinkler Base Part Nos. 10138, 10139, and 10173), and Black Teflon® in all temperature ratings. Wax-Coated Brass and Wax over Polyester finish⁵ for sprinklers with the following temperature ratings:

155 °F (68 °C) Lt. Brown Wax 200 °F (93 °C) Brown Wax 286 °F (141 °C) Dk. Brown Wax 175 °F (79 °C) Brown Wax 212 °F (100 °C) Brown Wax

¹ 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.

² The temperature rating is stamped on the deflector.

³ The corrosion-resistant coatings have passed the standard corrosion test required by the approving agencies indicated on pages 11 b-d. 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 Poly finishes and Teflon® coatings. For Teflon® coated open sprinklers only, the waterway is coated.

⁴ 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.

⁵ Wax Over Polyester un available for Sprinkler Base P/Ns 09992, 09993, 09994, and 09995.

for Sprinkler Base Part No. 09992. Brass UNS-C51000 or Copper UNS-C19500 for Sprinklers 10139, 10142, 10170, 10173, 10223, and 12105. Copper UNS-C19500 for Sprinkler Base Part Nos. 10138, 10141, 10169, 10174, 10187, 10190, 10193, 10220, 10233, and 12106. Brass UNS-C26000 for all other Part Nos.

Bushing (for Sprinkler Base Part Nos. 09994, 09995, 10188, 10189, 10191, 10192, 10218, 10219, 10221, and 10222): Brass UNS-C36000

Bulb: Glass, nominal 5 mm diameter
Belleville Spring Sealing Assembly: Nickel Alloy, coated on both sides with Teflon Tape

Screw: Brass UNS-C36000
Pip Cap for Sprinklers 09992, 09993, 09994, 09995, and 10221: Bronze UNS-C31400 or UNS-C31600

Pip Cap and Insert Assembly for all other Sprinkler Part Nos: Copper UNS-C11000 and Stainless Steel UNS-S30400

Pip Cap Attachment: Brass UNS-C36000
Ejector Spring (Part Nos. 12105 and 12106): Stainless Steel

Sprinklers with Teflon® Coating
Belleville Spring Sealing Assembly: Exposed

Screw: Nickel plated
Pip Cap: Teflon® Coated

Sprinklers with Poly Finishes
Belleville Spring Sealing Assembly: Exposed

AVAILABLE FINISHES
Brass, Chrome-Enloy® (patents pending), White Polyester (White Poly finish for Sprinkler Base Part Nos. 10138, 10139, 10141, 10173, and 10220), Black Polyester (Black Poly finish for Sprinkler Base Part Nos. 10138, 10139, and 10173), and Black Teflon® in all temperature ratings; Wax-Coated Brass or Wax over Polyester

Replaces page 11 a-d, dated May 14, 2004 (Sprinkler 10174 is now VK145). Refer to technical data page SR1-2 for general care, installation, and maintenance information.

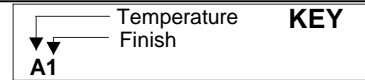


TECHNICAL DATA

MICROMATIC® AND MicromaticHP® STANDARD RESPONSE SPRINKLERS

Approval Chart

Micromatic® Standard Response Pendent Sprinklers
Maximum 175 PSI WWP



Thread Size		Max. Pressure	Sprinkler Description			Nominal K-Factor		Overall Length		Listings and Approvals ²				
NPT	BSP	PSIG	Style	Base Part Number ¹	SIN	U.S.	metric ⁶	Inch	mm	cULus ⁴	FM	NYC ³	VdS	LPCB
1/2"	15 mm	175	Pendent	10139	VK102	5.6	8.1	2-3/16	56	B2, D9, E11, F7	B5, C6, F5	B2, D9, E11	B5	B2, D9
-	15 mm	175	Pendent	10173 ¹²	VK102	5.6	8.1	2-3/16	56	B2, D9, E11, F7	B5, C6, F5	B2, D9, E11	B5	B2, D9
Large Orifice														
1/2"	15 mm	175	Pendent	10223	VK202	8.0	11.5	2-3/8	60	B1, D8, E11, F7	B7, C10, F7	B1, D8, E11	-	-
3/4"	20 mm	175	Pendent	10142	VK202	8.0	11.5	2-5/16	59	B1, D8, E11, F7	B7, C10, F7	B1, D8, E11	-	B4, D8
-	15 mm	175	Pendent	10187	VK202	8.0	11.5	2-3/8	60	B1, D8, E11, F7	C10	-	-	-
-	20 mm	175	Pendent	10170	VK202	8.0	11.5	2-3/8	60	B1, D8, E11	C10, A7	-	-	B7, D3
3/4"	20 mm	175	Pendent	12105	VK202	8.0	11.5	2-3/16	56	-	-	-	A4	-
Small Orifice⁹														
1/2"	15 mm	175	Pendent	10221 ¹⁰	VK003	2.8	4.0	2-3/16	56	B1, D8, E11	B7, D10	-	-	-
1/2"	15 mm	175	Pendent	10222 ¹⁰	VK004	4.2	6.0	2-1/4	58	B1, D8, E11	-	-	-	-
-	10 mm	175	Pendent	10175	VK004	4.2	6.0	2-1/4	58	-	-	-	B4	B7, D3
-	15 mm	175	Pendent	10188 ^{10,12}	VK004	4.2	6.0	2-1/4	58	B1, D8, E11	-	-	-	-
-	15 mm	175	Pendent	10189 ^{10,12}	VK003	2.8	4.0	2-3/16	56	B1, D8, E11	B7, D10	-	-	-
Installed with the Viking Micromatic® Model E-1 or E-2 Recessed Escutcheon¹¹														
1/2"	15 mm	175	Pendent	10139	VK102	5.6	8.1	2-3/16	56	D2	C5 ⁸	D2	D5	D2
1/2"	15 mm	175	Pendent	10223	VK202	8.0	11.5	2-3/8	60	D1	D7 ⁸	D1	-	-
1/2"	15 mm	175	Pendent	10221 ^{9,10}	VK003	2.8	4.0	2-3/16	56	D1	C7	D1	-	D1
1/2"	15 mm	175	Pendent	10229 ^{9,10}	VK004	4.2	6.0	2-1/4	58	D1	-	D1	-	D1
3/4"	20 mm	175	Pendent	10142	VK202	8.0	11.5	2-5/16	59	D1	D7 ⁸	D1	-	D4
-	15 mm	175	Pendent	10173 ¹²	VK102	5.6	8.1	2-3/16	56	D1	C7 ⁸	-	-	D1
-	20 mm	175	Pendent	10170	VK202	8.0	11.5	2-3/8	60	D1	D7 ⁸	-	-	D1
3/4"	20 mm	175	Pendent	12105	VK202	8.0	11.5	2-3/16	56	-	-	-	D4	-
Installed with the Viking Microfast® Model F-1 Adjustable Escutcheon¹¹														
1/2"	15 mm	175	Pendent	10139	VK102	5.6	8.1	2-3/16	56	D2	-	D2	E5	D2
1/2"	15 mm	175	Pendent	10223	VK202	8.0	11.5	2-3/8	60	D1	-	D1	-	-
1/2"	15 mm	175	Pendent	10221 ^{9,10}	VK003	2.8	4.0	2-3/16	56	D1	-	D1	-	D1
1/2"	15 mm	175	Pendent	10229 ^{9,10}	VK004	4.2	6.0	2-1/4	58	D1	-	D1	-	D1
3/4"	20 mm	175	Pendent	10142	VK202	8.0	11.5	2-5/16	59	D1	-	D1	-	D4
-	15 mm	175	Pendent	10173 ¹²	VK102	5.6	8.1	2-3/16	56	-	-	-	-	D1
-	20 mm	175	Pendent	10170	VK202	8.0	11.5	2-3/8	60	-	-	-	-	D1
3/4"	20 mm	175	Pendent	12105	VK202	8.0	11.5	2-3/16	56	-	-	-	A4	-

Approved Temperature Ratings

- A - 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)
- B - 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), 286 °F (141 °C), and 360 °F (182 °C)
- C - 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), and 212 °F (100 °C)
- D - 155 °F (68 °C), 175 °F (79 °C), and 200 °F (93 °C)
- E - 286 °F (141 °C)
- F - 500 °F (260 °C)⁷

Approved Finishes


- 1 - Brass, Chrome-Enloy®, White Polyester⁵, Black Polyester⁵, and Black Teflon⁸⁵
- 2 - Brass, Chrome-Enloy®, White Poly Finish⁵, Black Poly Finish⁵, and Black Teflon⁸⁵
- 3 - White Polyester, Black Polyester, Black Teflon®, Wax-Coated Brass, and Wax over Polyester
- 4 - Brass, Chrome-Enloy®, White Polyester, and Black Polyester
- 5 - Brass, Chrome-Enloy®, White Poly Finish, and Black Poly Finish
- 6 - White Poly Finish, Black Poly Finish, and Wax-Coated Brass (corrosion resistant)
- 7 - Brass and Chrome-Enloy®
- 8 - Wax-Coated Brass and Wax Over Polyester⁵
- 9 - Wax-Coated Brass and Wax Over Poly Finish⁵
- 10 - Wax-Coated Brass (corrosion resistant)
- 11 - High Temperature 200 °F (93 °C) Wax Coating (corrosion resistant); maximum ambient temperature allowed at ceiling = 150 °F (65 °C)

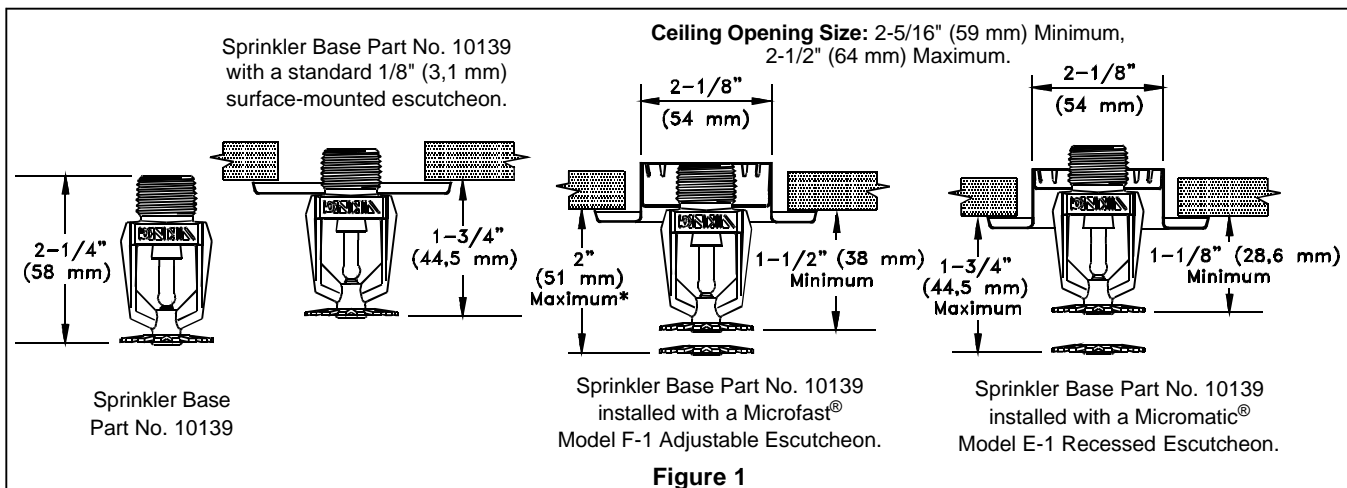
¹ Base part number shown. For complete part number, refer to Viking's current price schedule.
² This table shows the listings and approvals available at the time of printing. Other approvals may be in process.
³ Accepted for use, City of New York Department of Buildings, MEA Number 89-92-E, Vol. XII.
⁴ Listed by Underwriters Laboratories Inc. for use in the U.S. and Canada.
⁵ cULus Listed as corrosion-resistant.
⁶ Metric K-factor shown is for use when pressure is measured in kPa. When pressure is measured in BAR, multiply the metric K-factor shown by 10.0.
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 FM Approval of Viking Micromatic® Standard Response Recessed Pendent Sprinklers installed with the Viking Micromatic® Model E-1 or E-2 Recessed Escutcheon is limited to wet systems and preaction systems qualifying as wet systems, for hazard occupancies up to and including Ordinary Hazard, Group II.
⁹ Listings and Approvals limited to Light-Hazard Occupancies with hydraulically calculated wet systems only.
¹⁰ The sprinkler orifice is bushed.
¹¹ Refer to the "Sprinkler Accessories" section for technical data on approved escutcheons and other accessories. Escutcheons must be ordered separately from sprinklers. Refer to Viking's current price schedule.
¹² Sprinklers 10173, 10189, and 10188 are available on special order.

Spacing Requirements: Maximum spacing 15 ft. (4.6 m), minimum spacing 6 ft. (1.8 m).

VIKING® TECHNICAL DATA

MICROMATIC® AND MicromaticHP® STANDARD RESPONSE SPRINKLERS

Approval Chart														KEY	
MicromaticHP® Standard Response Pendant Sprinklers Maximum 250 PSI WWP															
Standard Orifice															
Thread Size		Max. Pressure	Sprinkler Description			Nominal K-Factor		Overall Length		Listings and Approvals ²					
NPT	BSP	PSIG	Style	Base Part Number ¹	SIN	U.S.	metric ⁵	Inch	mm	cULus ³	FM	NYC	VdS	LPCB	
1/2"	15 mm	250	Pendent	09992	VK122	5.6	8,1	2-1/4	58	A1	-	-	-	-	
Small Orifice ⁶															
1/2"	15 mm	250	Pendent	09994 ⁷	VK023	2.8	4,0	2-1/4	58	A1	-	-	-	-	
Installed with the Viking Micromatic® Model E-1 or E-2 Recessed Escutcheon ⁹															
1/2"	15 mm	250	Pendent	09992	VK122	5.6	8,1	2-1/4	58	B1	-	-	-	-	
1/2"	15 mm	250	Pendent	09994 ^{6,7}	VK023	2.8	4,0	2-1/4	58	B1	-	-	-	-	
Installed with the Viking Microfast® Model F-1 Adjustable Escutcheon ^{8,9}															
1/2"	15 mm	250	Pendent	09992	VK122	5.6	8,1	2-1/4	58	A1	-	-	-	-	
1/2"	15 mm	250	Pendent	09994 ^{6,7}	VK023	2.8	4,0	2-1/4	58	A1	-	-	-	-	
Approved Temperature Ratings								Approved Finishes							
A - 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), and 286 °F (141 °C)								1 - Brass, Chrome-Enjoy®, White Polyester ⁴ , Black Polyester ⁴ , and Black Teflon ^{6,4}							
B - 155 °F (68 °C), 175 °F (79 °C), and 200 °F (93 °C)															
Footnotes															
¹ Base part number shown. For complete part number, refer to Viking's current price schedule. ² This table shows the listings and approvals available at the time of printing. Other approvals may be in process. ³ Listed by Underwriters Laboratories Inc. for use in the U.S. and Canada. ⁴ cULus Listed as corrosion-resistant. ⁵ Metric K-factor shown is for use when pressure is measured in kPa. When pressure is measured in BAR, multiply the metric K-factor shown by 10.0. ⁶ Listings and Approvals limited to Light-Hazard Occupancies with hydraulically calculated wet systems only. ⁷ The sprinkler orifice is bushed. ⁸ The Microfast® Model F-1 Adjustable Escutcheon is considered a surface-mounted escutcheon because it does not allow the fusible element of the sprinkler to be recessed behind the face of the wall or ceiling. ⁹ Refer to the "Sprinkler Accessories" section for technical data on approved escutcheons and other accessories. Escutcheons must be ordered separately from sprinklers. Refer to Viking's current price schedule.															
Spacing Requirements: Maximum spacing 15 ft. (4,6 m), minimum spacing 6 ft. (1,8 m).															



ter* for sprinklers with temperature ratings through 286 °F (141 °C).

* Wax Over Polyester unavailable for Sprinkler Base Part Nos. 09992, 09993, 09994, and 09995.

ACCESSORIES

Sprinkler Wrenches:

A. Standard wrench: Part No. 10896W/B (available since 2000) or 05000CW/B (no longer available).

B. Wrench for coated and recessed Micromatic® and MicromaticHP® Standard Response Sprinklers: Part No. 07398W** (available since 1990), or Part No. 12144W/B**, available since 2003. **NOTE: Recessed pendent sprinklers with protective caps must use wrench 12144W/B.**

**A 1/2" ratchet is required (not available from Viking).

Refer to the "Sprinkler Accessories" section of the data book.

Figure 1



TECHNICAL DATA

**MICROMATIC® AND
MicromaticHP® STANDARD
RESPONSE SPRINKLERS**

Approval Chart

Micromatic® and MicromaticHP® Standard Response
Upright and Conventional Sprinklers

Temperature **KEY**

Finish

A1

**Maximum 175 PSI WWP
Standard Orifice**

Thread Size		Max. Pressure	Sprinkler Description			Nominal K-Factor		Overall Length		Listings and Approvals ²				
NPT	BSP	PSIG	Style	Base Part Number ¹	SIN	U.S.	metric ⁵	Inch	mm	cULus ⁴	FM	NYC	VdS	LPCB
1/2"	15 mm	175	Upright	10138	VK100	5.6	8,1	2-3/16	56	B14, E11, F13, G9	A16, D15, G16	B14, E11, F13 ³	-	-
1/2"	15 mm	175	Upright	10233	VK145	5.6	8,1	2-3/16	56	-	A8, D7, G8	-	B6	B9, E3
-	15 mm	175	Upright	10174	VK145	5.6	8,1	2-3/16	56	-	A8, D7, G8	-	-	B9, E3
-	15 mm	175	Upright	10193	VK100	5.6	8,1	2-3/16	56	B1, E10, F13, G9	A8, D7, G8	B1, E10, F13 ³	-	-

Large Orifice

1/2"	15 mm	175	Upright	10220	VK200	8.0	11,5	2-3/8	60	B2, E11, F13, G9	B8, E12, G8	B2, E11 ³	-	-
3/4"	20 mm	175	Upright	10141	VK200	8.0	11,5	2-5/16	59	B2, E11, F13, G9	B8, E12, G8	B2, E11, F13 ³	B6	B5, E11
-	15 mm	175	Upright	10190	VK200	8.0	11,5	2-3/8	60	B1, E10, F13, G9	B8, E12, G8	-	-	-
-	20 mm	175	Upright	10169	VK200	8.0	11,5	2-5/16	59	B1, E10, F13	B8, E12, G8	-	-	B9, E3

Small Orifice⁸

1/2"	15 mm	175	Upright	10218 ⁹	VK001	2.8	4,0	2-3/16	56	B1, E10, F13	E9, E12	-	-	-
1/2"	15 mm	175	Upright	10219 ⁹	VK002	4.2	6,0	2-3/16	56	B1, E10, F13	-	-	-	-
-	15 mm	175	Upright	10191 ⁹	VK002	4.2	6,0	2-3/16	56	B1, E10, F13	-	-	-	-
-	15 mm	175	Upright	10192 ⁹	VK001	2.8	4,0	2-3/16	56	B1, E10, F13	E9, E12	-	-	-
-	10 mm	175	Upright	10176	VK002	4.2	6,0	2-3/16	56	-	-	-	B17	B9, E3

Conventional

1/2"	15 mm	175	Conv.	10227	VK118	5.6	8,1	2-3/16	56	B1, E10, F13	-	B1, E10, F13 ¹¹	B17	B5, E10
3/4"	20 mm	175	Conv.	10228	VK120	8.0	11,5	2-5/16	59	B1, E10, F13	-	B1, E10, F13 ¹¹	-	B5, E10
-	15 mm	175	Conv.	10172 ¹⁰	VK118	5.6	8,1	2-3/16	56	B1, E10, F13	-	-	-	B5, E10
-	20 mm	175	Conv.	10168 ¹⁰	VK120	8.0	11,5	2-5/16	59	B1, E10, F13	-	-	-	B5, E10
3/4"	20 mm	175	Conv.	12106	VK120	8.0	11,5	2-5/16	59	-	-	-	B17	-

**Maximum 250 PSI WWP
Standard Orifice**

1/2"	15 mm	250	Upright	09993	VK124	5.6	8,1	2-1/4	58	C1	-	-	-	-
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Small Orifice⁸

1/2"	15 mm	250	Upright	09995 ⁹	VK021	2.8	4,0	2-1/4	58	C1	-	-	-	-
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Approved Temperature Ratings	Approved Finishes
<p>A - 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)</p> <p>B - 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), 286 °F (141 °C), and 360 °F (182 °C)</p> <p>C - 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), and 286 °F (141 °C)</p> <p>D - 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), and 212 °F (100 °C)</p> <p>E - 155 °F (68 °C), 175 °F (79 °C), and 200 °F (93 °C)</p> <p>F - 286 °F (141 °C)</p> <p>G - 500 °F (260 °C)⁷</p>	<p>1 - Brass, Chrome-Enloy®, White Polyester⁵, Black Polyester⁵, and Black Teflon^{®5}</p> <p>2 - Brass, Chrome-Enloy®, White Poly Finish⁵, Black Polyester⁵, and Black Teflon^{®5}</p> <p>3 - White Polyester, Black Polyester, Black Teflon[®], Wax-Coated Brass, and Wax over Polyester</p> <p>4 - White Poly Finish, Black Polyester, Black Teflon[®], Wax-Coated Brass, and Wax over Polyester</p> <p>5 - Brass, Chrome-Enloy®, White Polyester, and Black Polyester</p> <p>6 - Brass, Chrome-Enloy®, White Poly Finish, and Black Polyester</p> <p>7 - White Poly Finish and Wax-Coated Brass (corrosion resistant)</p> <p>8 - Brass, Chrome-Enloy® and White Poly Finish</p> <p>9 - Brass and Chrome-Enloy®</p> <p>10 - Wax-Coated Brass and Wax over Polyester⁵</p> <p>11 - Wax-Coated Brass and Wax over Poly Finish⁵</p> <p>12 - Wax-Coated Brass (corrosion resistant)</p> <p>13 - 200 °F (93 °C) High-Temperature Wax Coating (corrosion resistant); maximum ambient temperature allowed at ceiling = 150 °F (65 °C)</p> <p>14 - Brass, Chrome-Enloy®, White Poly Finish⁵, Black Poly Finish⁵, and Black Teflon^{®5}</p> <p>15 - White Poly Finish, Black Poly Finish, and Wax-Coated Brass (corrosion resistant)</p> <p>16 - Brass, Chrome-Enloy®, White Poly Finish, and Black Poly Finish</p> <p>17 - Brass, Chrome-Enloy®, White Polyester, and Black Polyester</p>

Footnotes

- ¹ Base part number shown. For complete part number, refer to Viking's current price schedule.
- ² This table shows the listings and approvals available at the time of printing. Other approvals may be in process.
- ³ Accepted for use, City of New York Department of Buildings, MEA Number 89-92-E, Vol. XII.
- ⁴ Listed by Underwriters Laboratories Inc. for use in the U.S. and Canada.
- ⁵ cULus Listed as corrosion-resistant.
- ⁶ Metric K-factor shown is for use when pressure is measured in kPa. When pressure is measured in BAR, multiply the metric K-factor shown by 10.0.
- 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 Listings and Approvals limited to Light-Hazard Occupancies with hydraulically calculated wet systems only.
- ⁹ The sprinkler orifice is bushed.
- ¹⁰ Sprinklers 10168 and 10172 are available on special order.
- ¹¹ Accepted for use, City of New York Department of Buildings, MEA Number 89-92-E, Vol. III.

Spacing Requirements: Maximum spacing 15 ft. (4,6 m), minimum spacing 6 ft. (1,8 m).