



1. PRODUCT NAME

Viking Micromatic® and MicromaticHP® Standard Response Horizontal Sidewall Sprinklers

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

Viking Micromatic® and MicromaticHP® Standard Response Horizontal Sidewall (HSW) Sprinklers are small thermosensitive spray sprinklers available with various finishes and temperature ratings to meet design requirements. The special Polyester and Teflon® coatings can be used in decorative applications where colors are desired. In addition, these finishes are corrosion resistant and provide protection against many corrosive environments.

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 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 Approval Chart on pg 14 f. Glass-bulb fluid temperature rated to -65° F (-55° C).

RATED WATER WORKING PRESSURE

- Sprinklers 09849 and 09997 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) sprinkler can be identified by locating the number "250" on the deflector.
- All Other Part Nos: Maximum 175 psi (1 207 kPa) wwp.
- Factory tested hydrostatically to 500 psi (3 448 kPa).
- Minimum Operating Pressure: 7 psi (48.3 kPa)



Sprinkler Base Part Number 09849

SPRINKLER MATERIALS

Frame: Brass UNS-C84400 Deflector: Copper UNS-C19500 Bushing (for High-Pressure Sprinkler 09997): 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: Copper UNS-C31600 or UNS-C31400 for Sprinklers 10171 and 10224. For all others: Copper UNS-C11000 and Stainless Steel UNS-S30400.
- Pip Cap Attachment (for Sprinklers 09849 and 09997): Brass UNS-C36000

Teflon® Coated Sprinklers:

Belleville Spring: Nickel Alloy, exposed Screw: Brass UNS-C36000, Nickel plated Pip Cap: Teflon® Coated

Polyester Coated Sprinklers:

Belleville Spring: Nickel Alloy, exposed



MICROMATIC[®] AND

MicromaticHP[®] STANDARD

RESPONSE HORIZONTAL SIDEWALL SPRINKLERS

Sprinkler Base Part Number 10224

AVAILABLE FINISHES

Brass, Chrome-Enloy®, White Polyester, Black Polyester, and Black Teflon® in all temperature ratings; Wax-Coated Brass or Wax Over Polyester for sprinklers with temperature ratings through 286 °F (141 °C).

ACCESSORIES (order separately)

Sprinkler Cabinets:

- A. Six-head capacity: Part No. 01724A Available since 1971.
- B. Twelve-head capacity: Part No. 01725A, Available since 1971.

Sprinkler Wrenches:

- A. Standard Wrench: Part No. 10896W/B (available since 2000) or Part No. 05000CW/B (no longer available). Standard wrench is also to be used for wax coated sprinklers.
- B. Wrench for Polyester and Teflon® coated and recessed sprinklers: Part No. 07398W* (available since 1990). * A 1/2" ratchet is required (not available from Viking).

Sprinkler Temperature Classification	Nominal Sprinkler Temp. Rating (Fusing Point) ²	Maximum Ambient Ceiling Temp. 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
High	286 °F (141 °C)	225 °F (107 °C)	Blue
Extra High	360 °F (182 °C)	300 °F (149 °C)	Mauve

Sprinkler Finishes: Brass, Chrome-Enloy® (patents pending), White Polyester, Black Polyester, and Black Teflon®

Corrosion-Resistant Coatings³: White Polyester, Black Polyester, and Black Teflon® in all temperature ratings. Wax-Coated Brass and Wax over Polyester for sprinklers with the following temperature ratings:

ang temperature r	aungs.	
155 °F (68 °C) Light Brown Wax	200 °F (93 °
175 °F (79 °C) Brown Wax	286 °F (141

200 °F ((93 °C) Brown Wax	
286 °F	(141 °Ć) Dark Brown V	Vax

Footnotes

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.

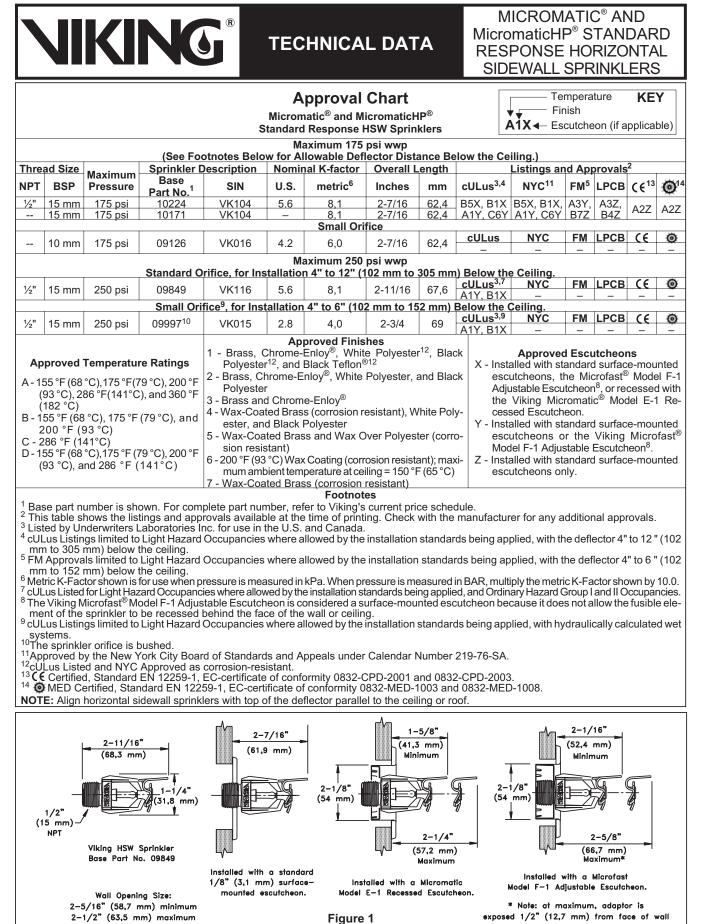
²The temperature rating is stamped on the deflector.

³ The corrosion-resistant coatings have passed the standard corrosion test required by the approving agencies indicated in the Approval Chart on page 14 f. 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 Teflon[®] coatings. For Teflon[®] coated open sprinklers only, the waterway is coated. Table 1

Note: Units of measure in parentheses Replaces page 14 e-f, dated October 21, 2005 (added MED Approval). Refer to technical data page SR1-2 for general care, installation, and maintenance information.

may be approximations. Form No. F_123096

TECHNICAL DATA



Replaces page 14 e-f, dated October 21, 2005 (added MED Approval). **Refer to techni-**cal data page SR1-2 for general care, installation, and maintenance information.

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November 18, 2005