1. DESCRIPTION
The Viking Microfast® Quick Response Upright Sprinkler VK3271 is a small, thermosensitive, glass-bulb spray sprinkler available in several different finishes and temperature ratings to meet design requirements. The special Polyester 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 as corrosion resistant as indicated in the Approval Charts.

2. LISTINGS AND APPROVALS
- VdS approved: Certificate: G4930039
- CE certified: Standard EN 12259-1, EC-certificate of conformity 0786-CPD-40131

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)
- Testing: U.S.A. Patent No. 4,831,870
- Thread size: 10 mm BSP
- Nominal K-Factor: 4.2 U.S. (57 metric**)
- Glass-bulb fluid temperature rated to -65 °F (-55 °C)
- Overall Length: 2-1/4" (58 mm)

*cuULus 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: Brass UNS-C26000
- Bushing: Brass UNS-C36000
- Bulb: Glass, nominal 3 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
- Pip Cap Attachment: Brass UNS-C36000

For Polyester Coated Sprinklers:
- Belleville Spring-Exposed

Ordering Information: (Also refer to the current Viking price list.)
Order Viking Microfast® Quick Response Upright Sprinkler VK3271 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, and Black Polyester = M-/B
Temperature Suffix (°F/°C): 135°/57° = A, 155°/68° = B, 175°/79° = D, 200°/93° = E, and 286°/141° = G
For example, sprinkler VK3271 with a 1/2" NPT thread, Brass finish and a 155 °F/68 °C temperature rating = Part No. 06931BAB

Available Finishes And Temperature Ratings: Refer to Table 1.

Accessories: (Also refer to the Viking website.)
- Sprinkler Wrench: Standard Wrench: Part No. 21475M/B (available since 2017)
- 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 Microfast® Quick Response Upright Sprinkler VK3271 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.

<table>
<thead>
<tr>
<th>Sprinkler Temperature Classification</th>
<th>Sprinkler Nominal Temperature Rating¹</th>
<th>Maximum Ambient Ceiling Temperature²</th>
<th>Bulb Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordinary</td>
<td>135 °F (57 °C)</td>
<td>100 °F (38 °C)</td>
<td>Orange</td>
</tr>
<tr>
<td>Ordinary</td>
<td>155 °F (68 °C)</td>
<td>100 °F (38 °C)</td>
<td>Red</td>
</tr>
<tr>
<td>Intermediate</td>
<td>175 °F (79 °C)</td>
<td>150 °F (65 °C)</td>
<td>Yellow</td>
</tr>
<tr>
<td>Intermediate</td>
<td>200 °F (93 °C)</td>
<td>150 °F (65 °C)</td>
<td>Green</td>
</tr>
<tr>
<td>High</td>
<td>286 °F (141 °C)</td>
<td>225 °F (107 °C)</td>
<td>Blue</td>
</tr>
</tbody>
</table>

Sprinkler Finishes: Brass, Chrome, White Polyester, and Black Polyester
Corrosion-Resistant Coatings³: White Polyester and Black Polyester

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 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 coatings.

![Figure 1: Standard Sprinkler Wrench 21475M/B](image1.png)
### Approval Chart 1 (UL)

**Microfast® Quick Response**

**Upright Sprinkler VK3271**

**Maximum 175 PSI (12 bar) WWP**

<table>
<thead>
<tr>
<th>Base Part Number¹</th>
<th>SIN</th>
<th>Thread Size</th>
<th>Nominal K-Factor</th>
<th>Overall Length</th>
<th>Listings and Approvals³</th>
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<tbody>
<tr>
<td>06931B</td>
<td>VK3271</td>
<td>--</td>
<td>10 mm</td>
<td>4.2</td>
<td>metric² 57</td>
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<td></td>
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<td>NPT</td>
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<td>2-3/16</td>
<td>mm 56</td>
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<td>BSP</td>
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<tr>
<td></td>
<td></td>
<td>metric</td>
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<td></td>
<td>LPCB A1</td>
</tr>
</tbody>
</table>

**Approved Temperature Ratings**

A - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), and 286 °F (141°C)

**Approved Finishes**

1 - Brass, Chrome, White Polyester⁵, and Black Polyester⁶,⁷

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**Footnotes**

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

2 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.

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

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

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

6 cULus Listed as corrosion resistant.

7 CE Certified, Standard EN 12259-1, EC-certificate of conformity 0786-CPD-40131

**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.