1. DESCRIPTION
The Viking Microfast® Quick Response Fusible Element Conventional Sprinkler VK355 is a small, thermosensitive, solder link spray sprinkler available in several different finishes, temperature ratings, and K-Factors to meet design requirements. The special Polyester coatings can be used in decorative applications where colors are desired.

2. LISTINGS AND APPROVALS
   cULus Listed: Category VNIV

Refer to Approval Chart 1 and Design Criteria on for cULus Listing requirements.

3. TECHNICAL DATA
   Specifications:
   - Minimum Operating Pressure: 7 psi (0.5 bar)
   - Maximum Working Pressure: 175 psi (12 bar)
   - Factory tested hydrostatically to 500 psi (34.5 bar)
   - Testing: U.S.A. Patent No. 4,831,870
   - Thread size: 3/4" NPT, 20 mm BSP
   - Nominal K-Factor: 8.0 U.S. (115.2 metric**)
   - Overall Length: 2-5/16" (59 mm)

   ** 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
   - Deflector: Brass UNS-C26000
   - Fusible Element Assembly: Nickel Alloy
   - Trigger and Support: Stainless Steel UNS-S31600
   - Belleville Spring Sealing Assembly: Nickel Alloy, coated on both sides with PTFE Tape
   - Seat and Insert Assembly: Copper UNS-C11000 and Stainless Steel UNS-S30400
   - Screw: Brass UNS-C36000

   For Polyester Coated Sprinklers: Belleville Spring-Exposed

   Ordering Information: (Also refer to the current Viking price list.)
   Order Quick Response Fusible Element Conventional Sprinklers 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): 165°/74° = C, 205°/96° = E, and 280°/138° = G

   For example, sprinkler VK355 with a Brass finish and a 165 °F/74 °C temperature rating = Part No. 18276AC

   Available Finishes And Temperature Ratings:
   Refer to Table 1

   Accessories: (Also refer to the Viking website.)
   Sprinkler Wrenches:
   - 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 fusible element assembly disengages, releasing the seat and spring assemblies to open the waterway. 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 Fusible Element Conventional Sprinkler VK355 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 Rating</th>
<th>Maximum Ambient Ceiling Temperature</th>
<th>Frame Paint Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordinary</td>
<td>165 °F (74 °C)</td>
<td>100 °F (38 °C)</td>
<td>None</td>
</tr>
<tr>
<td>Intermediate</td>
<td>205 °F (96 °C)</td>
<td>150 °F (65 °C)</td>
<td>White</td>
</tr>
<tr>
<td>High</td>
<td>280 °F (138 °C)</td>
<td>225 °F (107 °C)</td>
<td>Blue</td>
</tr>
</tbody>
</table>

Sprinkler Finishes: Brass, Chrome, White Polyester³, and Black Polyester³

Footnotes
1 Decorative sprinklers may not be color coded. The 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 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 PTFE coatings.
MICROFAST® QUICK RESPONSE FUSIBLE ELEMENT CONVENTIONAL SPRINKLER VK355 (K8.0)

TECHNICAL DATA

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

Approval Chart 1 (UL)

Microfast® Quick Response Fusible Element Conventional Sprinkler VK355
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 (Refer also to Design Criteria below.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>NPT/BSP U.S. metric2 inches mm</td>
<td></td>
<td></td>
<td>CULus4</td>
</tr>
<tr>
<td>18276</td>
<td>VK355</td>
<td>3/4&quot;</td>
<td>20 mm</td>
<td>8.0</td>
<td>115.2</td>
</tr>
<tr>
<td>13979</td>
<td>VK355</td>
<td>3/4&quot;</td>
<td>20 mm</td>
<td>8.0</td>
<td>115.2</td>
</tr>
</tbody>
</table>

NOTICE - Product Below - Limited Availability (Contact Local Viking Office)

Approved Temperature Ratings
A - 165 °F (74 °C), 205 °F (96 °C), and 280 °F (138 °C)

Approved Finishes
1 - Brass, Chrome, White Polyester5, and Black Polyester6

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 use in the U.S. and Canada.
5 Other colors are available on request with the same Listings and Approvals as the standard colors.

DESIGN CRITERIA - UL
(Also refer to Approval Chart 1 above.)

CULus Listing Requirements:
Quick Response Fusible Element Conventional (Old Style) Sprinkler VK355 is CULus Listed as indicated in the Approval Chart for installation in accordance with the latest edition of NFPA 13 for old style (conventional) sprinklers.

• Designed for use in Light and Ordinary Hazard occupancies
• The sprinkler installation rules contained in NFPA 13 for standard spray old style (conventional) 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.