Dry Sprinkler Quick Reference Guide

This guide is intended for general reference only. Prior to the design, layout, and/or installation of any sprinkler system, please refer to Viking’s technical documentation and always consult with the AHJ. Viking makes no representation or warranty as to whether following this guide will satisfy any rule or requirement. Please visit www.vikinggroupinc.com for the most current technical data and product specifications. All products must be installed in accordance with the manufacturer’s current installation instructions. Viking reserves the right to change product specifications at any time without notice and without incurring obligation.

Light Hazard Only

Extended Coverage – Standard / Quick Response
5.6 (81) K-factor – Pendent, Domed Concealed Pendent, Horizontal Sidewall

- cULus Listed
- 1 inch NPT (25 mm BSP)
- Finish (f): chrome, white-polyester, nickel PTFE; brass (VK196 only)
- VK196 cover plates available in chrome, white, ivory, and black
- Temperature (t): 155°F (68°C), 175°F (79°C) — VK196 is also available in 135°F (57°C)
- Length (l): Order in ¼” increments.
See technical datasheets F_051498, F_092203, and F_051598 for design and installation data.

Standard Coverage – Standard Response
5.6 (81) K-factor – Horizontal Sidewall

- cULus Listed and FM Approved
- 1 inch NPT (25 mm BSP)
- Finish (f): chrome, white-polyester, nickel PTFE; brass (VK152 only)
- Temperature (t): 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C) — VK162 NOT available in 286°F (141°C)
- Length (l): Order in ½” increments for VK156 & VK152. VK162 available in ¼” increments.
See technical datasheet F_073091 for complete design and installation specifications.

Standard Coverage – Quick Response
5.6 (81) K-factor – Horizontal Sidewall

- cULus Listed
- 1 inch NPT (25 mm BSP)
- Finish (f): chrome, white-polyester; brass (VK174 only)
- Temperature (t): 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C) — VK182 NOT available in 286°F (141°C)
- Length (l): Order in ½” increments for VK174 & VK178. VK182 available in ¼” increments.
See technical datasheet F_031993 for complete design and installation specifications.

Standard Coverage – Standard Response
5.6 (81) K-factor – Vertical Sidewall

- These products are NOT listed or approved.
- 1 inch NPT (25 mm BSP)
- Finish (f): chrome, white-polyester; brass (VK153 only)
- Temperature (t): 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C) — VK161 NOT available in 286°F (141°C)
- Length (l): Order in ½” increments for VK153 & VK157. VK161 available in ¼” increments.
See technical datasheet F-011194 for complete design and installation specifications.

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See page 5 for ordering instructions (f=finish, t=temperature, l=length)
Light and Ordinary Hazard

Standard Coverage – Quick Response
5.6 (81) K-factor – Upright

- ULus Listed
- 1 inch NPT (25 mm BSP)
- Finish (f): white-polyester, brass
- Temperature (t): 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C)
- Length (l): Order in ¼" increments.
- Standard length is 4½ to 48½ in.
See technical datasheet F_031693 for complete design and installation data.

Standard Coverage – Quick Response
5.6 (81) K-factor – Pendent

- ULus Listed and FM Approved
- 1 inch NPT (25 mm BSP)
- Finish (f): chrome, white-polyester; brass (VK172 only)
- Temperature (t): 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C)—VK180 NOT available in 286°F (141°C)
- Length (l): Order in ½" increments for VK172 & VK176. VK180 available in ¼" increments.
See technical datasheet F_031793 for complete design and installation specifications.

Standard Coverage – Quick Response
5.6 (81) K-factor – Recessed Concealed and Domed Concealed Pendent

- ULus Listed
- 1 inch NPT (25 mm BSP)
- VK482 Available Finishes: white
- VK194 Cover Plate Finishes: white, chrome, ivory, black
- VK482 Temperature Ratings: 165°F (74°C), 205°F (96°C)
- VK194 Temperature Ratings: 155°F (68°C), 175°F (79°C), 200°F (93°C)
- Length (l): Order in ¼ inch increments (standard length is 4" to 48¼" for VK194 and 4½ to 48" for VK482).
See technical datasheets F_081512 (VK482) and F_092103 (VK194) for complete specifications.

Standard Coverage – Quick Response
8.0 (115) K-factor – Pendent

- ULus Listed
- 1 inch NPT (25 mm BSP)
- Finish (f): chrome, white-polyester; brass (VK173 only)
- Temperature (t): 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C)—VK181 NOT available in 286°F (141°C)
- Length (l): Order in ½" increments for VK173 & VK177. VK181 available in ¼" increments.
See technical datasheet F_010305 for complete design and installation specifications.
Light and Ordinary Hazard Sprinklers continued from page 2

Standard Coverage – Quick Response
8.0 (115) K-factor – Vertical (Fusible Link)

- cULus Listed
- 1 inch NPT (25 mm BSP)
- Finish (f): chrome, white-polyester (VK282, VK290); chrome, brass (VK2843)
- Temperature (t): 165°F (74°C), 205°F (96°C), 280°F (138°C)—VK290 NOT available in 280°F (138°C)
- Length (l): Order in ½” increments for VK282 & VK286. VK290 available in ¼” increments. See technical datasheet F_101515 for complete design and installation specifications.

Standard Coverage – Standard Response
8.0 (115) K-factor – Horizontal Sidewall

- Expanded approval for installation from 4” to 12” below the ceiling.
- cULus Listed
- 1 inch NPT (25 mm BSP)
- Finish (f): chrome, white-polyester, nickel PTFE; brass (VK2503 only)
- Temperature (t): 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C)—VK2543 NOT available in 286°F (141°C)
- Length (l): Order in ½” increments for VK2503 & VK2523. VK2543 available in ¼” increments. See technical datasheet F_022617 for complete design and installation specifications.

Standard Coverage – Quick Response
8.0 (115) K-factor – Horizontal Sidewall

- Expanded approval for installation from 4” to 12” below the ceiling.
- cULus Listed
- 1 inch NPT (25 mm BSP)
- Finish (f): chrome, white-polyester, brass (VK2753 only)
- Temperature (t): 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C)—VK2793 NOT available in 286°F (141°C)
- Length (l): Order in ½” increments for VK2753 & VK2773. VK2793 available in ¼” increments. See technical datasheet F_022617 for complete design and installation specifications.

Standard Coverage – Quick Response
8.0 (115) K-factor – Vertical (Fusible Link)

- cULus Listed
- 1 inch NPT (25 mm BSP)
- Finish (f): chrome, white-polyester (VK2883, VK2923); chrome, brass (VK2843)
- Temperature (t): 165°F (74°C), 205°F (96°C), 280°F (138°C)—VK2923 is NOT available in 280°F (138°C)
- Length (l): Order in ½” increments for VK2843 & VK2883. VK2923 available in ¼” increments. See technical datasheet F_022717 for complete design and installation specifications.
### Light, Ordinary, and Extra Hazard

#### Standard Coverage – Standard Response

**5.6 (81) K-factor – Upright**

- **cULus Listed**
- 1 inch NPT (25 mm BSP)
- **Finish (f):** white-polyester, brass
- Temperature (t): 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C)
- Length (l): Order in ½” increments.
- Standard length is 4½ to 48½ in.

See technical datasheet F_033192 for complete design and installation specifications.

#### Standard Coverage – Standard Response

**5.6 (81) K-factor – Pendent**

- **cULus Listed and FM Approved**
- 1 inch NPT (25 mm BSP)
- **Finish (f):** chrome, white-polyester, nickel PTFE; brass (VK150 only)
- Temperature (t): 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C)—VK158 NOT available in 286°F (141°C)
- Length (l): Order in ½” increments for VK150 & VK154. VK158 available in ¼” increments.

See technical datasheet F_071591 for complete design and installation specifications.

#### Standard Coverage – Standard Response

**8.0 (115) K-factor – Pendent**

- **cULus Listed**
- 1 inch NPT (25 mm BSP)
- **Finish (f):** chrome, white-polyester, nickel PTFE; brass (VK163 only)
- Temperature (t): 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C)—VK164 NOT available in 286°F (141°C)
- Length (l): Order in ¼” increments for VK166 & VK163. VK164 available in ¼” increments.

See technical datasheet F_090110 for complete design and installation data.

#### Standard Coverage – Standard Response

**5.6 (81) and 8.0 (115) K-factor – Domed Concealed Pendent**

- **cULus Listed**
- 1 inch NPT (25 mm BSP)
- **Finish (f):** brass (cover plates available in chrome, white, ivory, black)
- Temperature (t): 155°F (68°C), 175°F (79°C), and 200°F (93°C)—cover plate available in 135°F (57°C) and 165°F (74°C)
- Length (l): Order in ¼” increments. Standard length is 4” to 48½ in.

See technical datasheets F_092003 and F_081311 for complete design and installation specifications.

#### Standard Coverage – Standard Response

**5.6 (81) K-factor – Pendent (Stainless Steel)**

- These products are **NOT** listed or approved.
- 1 inch NPT (25 mm BSP)
- **Finish (f):** stainless steel
- Temperature (t): 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C)—VK169 is **NOT** available in 286°F (141°C)
- Length (l): Order in ½” increments for VK168 and ¼” increments for VK169.

See technical datasheet F_060796 for complete design and installation specifications.
Storage and Non-Storage Dry ELO Pendent (FM Approved Standard Spray)

Standard Coverage – Standard Response
11.2 (161) K-factor – Pendent (fusible link)

- FM Approved
- 1 ¼" NPT (32 mm BSP); requires 1 ¼" tee
- Finish (f): brass, chrome, white, nickel PTFE
- Temperature (t): 165°F (74°C), 205°F (96°C), 280°F (138°C)
- Length (l): order in 6" increments
- Standard length is 12" to 48" (305 mm to 1,219 mm)

See technical datasheet F_040815 for complete design and installation specifications.

Standard Coverage – Quick Response
11.2 (161) K-factor – Pendent (fusible link)

- FM Approved
- 1 ¼" NPT (32 mm BSP); requires 1 ¼" tee
- Finish (f): brass, chrome, white, nickel PTFE
- Temperature (t): 165°F (74°C), 205°F (96°C), 280°F (138°C)
- Length (l): order in 6" increments
- Standard length is 12" to 48" (305 mm to 1,219 mm)

See technical datasheet F_040915 for complete design and installation specifications.

Ordering Instructions

To order add desired Finish (f), Temperature (t), and Length (l)
Finish (f) and Temperature (t) codes are available in Viking’s List Price Book.
For Length (l) please see A or B Dimension diagrams below.

* Dry sprinklers are customer specific products and are NOT RETURNABLE. Any changes made after order submission are subject to charges for manufacturing processes completed at the time of change or cancellation. These charges could be equal to the value of the original order. Please check the information carefully before ordering. Refer to Viking Technical Data for detailed product information.

Finish Suffixes (f)
- Brass A
- Chrome F
- White-Poly M-/W
- ENT JN

Temp Suffixes (t)
- 135°F A
- 155°F B
- 165°F C
- 175°F D
- 200°F / 205°F E
- 280°F / 286°F G

For "A" Dimension:
1. Determine distance from face of the tee to the base of the sprinkler.
2. Round up to next highest 1/2" (13 mm) increment between 3" (76 mm) and 47" (1194 mm).

For "B" Dimension:
1. Determine the distance from the face of the tee to the top of the sprinkler deflector.
2. Round to the nearest 1/2" (13 mm) increment between 41/2" and 481/2" (114 mm and 1232 mm).

Example [base(f)(t)(l)]
VK150, Chrome, 155°F, 10" long
07852UFB10
Dry Sprinkler Order Form

To ensure an accurate order, please follow these steps:

1. Check the desired SIN (Sprinkler Identification Number).
2. Check desired sprinkler finish and temperature. (Circle temp and finish for fusible link models.)
3. Enter A or B dimensions.
4. Enter order quantity.

A Dimension is the distance from the face of the fitting (tee) to desired finished surface of ceiling.

B Dimension is the distance from the face of the fitting (tee) to the top of the deflector — upright models only.

<table>
<thead>
<tr>
<th>Standard Adjustable</th>
<th>Horizontal Sidewall</th>
<th>Vertical Sidewall</th>
<th>Pendent</th>
</tr>
</thead>
<tbody>
<tr>
<td>VK154 (SR)</td>
<td>VK162 (SR)</td>
<td>VK157 (SR)*</td>
<td>VK482</td>
</tr>
<tr>
<td>VK156 (SR)</td>
<td>VK2543 (SR OH)</td>
<td>Available in Chrome only</td>
<td>chrome (F)</td>
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<tr>
<td>VK157 (SR)</td>
<td>VK188 (SR**)</td>
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<tr>
<td>VK176 (QR)</td>
<td>VK2793 (QR OH)</td>
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<tr>
<td>VK177 (QR LO)</td>
<td>VK188 (QR**)</td>
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<tr>
<td>VK286 (QR LO)*</td>
<td>VK2923 (QR OH*)</td>
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<td></td>
<td>Fusible Link 165° 205° 280° (Circle temp)</td>
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<thead>
<tr>
<th>Recessed Adjustable</th>
<th>Horizontal Sidewall</th>
<th>Vertical Sidewall</th>
<th>Pendent</th>
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<tbody>
<tr>
<td>VK158 (SR)</td>
<td>VK162 (SR)</td>
<td>VK161 (SR)</td>
<td>VK190</td>
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<tr>
<td>VK164 (SR LO)</td>
<td>VK2543 (SR OH)</td>
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<td>VK186 (SR**)</td>
<td>VK188 (SR**)</td>
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<tr>
<td>VK169 (SR****)</td>
<td>VK2793 (QR OH)</td>
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<tr>
<td>VK180 (QR)</td>
<td>VK188 (QR**)</td>
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<td>VK181 (QR LO)</td>
<td>VK2923 (QR OH*)</td>
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<td>VK186 (QR**)</td>
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<tr>
<td>VK290 (QR LO)*</td>
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<tr>
<td>*Fusible Link 165° 205° **Ext. Coverage 155° 175° (Circle temp) ***Stainless Steel</td>
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<thead>
<tr>
<th>Plain Barrel</th>
<th>Horizontal Sidewall</th>
<th>Vertical Sidewall</th>
<th>Pendent</th>
</tr>
</thead>
<tbody>
<tr>
<td>VK150 (SR)</td>
<td>VK152 (SR)</td>
<td>VK153 (SR)</td>
<td>VK160</td>
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<tr>
<td>VK166 (SR LO)</td>
<td>VK2503 (SR OH)</td>
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<td>VK168 (SR**)</td>
<td>VK174 (QR)</td>
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<td>VK172 (QR)</td>
<td>VK2753 (QR OH)</td>
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<td>VK173 (QR LO)</td>
<td>VK2843 (QR OH*)</td>
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<td>VK282 (QR LO)*</td>
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<tr>
<td>*Fusible Link 165° 205° 280° (Circle temp) **Stainless Steel</td>
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**Stainless Steel

*Fusible Link 165° 205° 280° Brass Chrome White (Circle temp and finish) Lengths in 6" increments: 12”-28"

Note: Insulating boot included.

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Chrome (F)</th>
<th>White (M)</th>
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</thead>
<tbody>
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<td>155°F (68°C)</td>
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<td>175°F (79°C)</td>
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<tr>
<td>200°F (93°C)</td>
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<td>286°F (141°C)</td>
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*Fusible Link (165°, 205°, 280°)

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<th>Temperature</th>
<th>Chrome (F)</th>
<th>White (M)</th>
<th>White w/chrome escutcheon &amp; sleeve (MF)</th>
<th>ENT JN</th>
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<tbody>
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<td>155°F (68°C)</td>
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<td>175°F (79°C)</td>
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<td>286°F (141°C)</td>
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<table>
<thead>
<tr>
<th>Temperature</th>
<th>Chrome (F)</th>
<th>White (M)</th>
<th>Black (M/B)</th>
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<tbody>
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<tr>
<td>200°F (93°C)</td>
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<tr>
<td>135°F (57°C)</td>
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<tr>
<td>165°F (74°C)</td>
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**Ext. Coverage 155° 175° (Circle temp)

**SR Ext Cov 155° 175° 175° (Circle temp)

**QR Ext Cov 155° 155° 175° (Circle temp)

**QR Ext Cov 155° 175° 175° (Circle temp)

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