1. DESCRIPTION

Viking Model A-2, A-2X, B-2, C-2, and D-2 Solid Cone Spray Nozzles are "non-automatic" pattern, open, directional discharge spray nozzles. The spray nozzle units feature two-piece construction consisting of a cast bronze body and threaded insert. The insert determines the included angle of discharge and the body construction provides a uniform distribution throughout the discharge pattern. When spraying, the nozzle discharge forms a solid, cone-shaped spray pattern meeting the requirements for medium- and high-velocity water spray systems.

Optional dust plugs are available to prevent foreign material from entering the open end of the spray nozzle. They are designed to blow off when the system piping is pressurized.

2. LISTINGS AND APPROVALS

- **cULus Listed:** Category VGYZ
- **FM Approved:** Water-Spray Systems

NYC Approved: Calendar Number 219-76-SA, Bulletin No. 16, Vol. LXI

**NOTE:** International approval certificates are available upon request.

The nozzles are approved for use in medium- and high-velocity water spray systems. Refer to the Approval Charts on pages 4-5 and Design Criteria on page 6 for cULus and FM approval requirements that must be followed.

3. TECHNICAL DATA

**Specifications:**

Available since 1971.

The water inlet is at a 90° angle to the nozzle outlet. The smallest nozzle passage is 1/4" (6 mm) for Part Nos. 05133AAJ through 05134AJN; 11/32 (9 mm) for Part Nos. 05135AAJ through 05135AJN; 3/8" (10 mm) for Part Nos. 19505J through 19505JN; and 7/16" (11 mm) for Part Nos. 19506AJ through 19506JN.

All bodies are permanently marked with the model number.

All inserts are permanently marked with the angle of discharge and model.

Inserts are available in spray angles of 30°, 60°, 90°, 120°, and 140°

Refer to pages 7-13 for spray nozzle water distribution patterns.

Thread size: 1/2" (15 mm) NPT male thread is standard

Nominal K-Factors: Refer to the Approval Charts

**Dust Plugs (Optional):**

Red Polyethylene Cap: 1" (25 mm) deep
Rated for a continuous temperature of 220 °F (104 °C).

**Spray Nozzle Material Standards:**

- **Body Casting:** Brass UNS-C84400
- **Insert:** Brass UNS-C36000

**Ordering Information:** (Also refer to the current Viking price list.)

Order Model A-2, A-2X, B-2, C-2, and D-2 Solid Cone Spray Nozzles by selecting the appropriate part number from the Approval Charts.

**Available Finishes:** Brass or Electroless Nickel. Refer to the Approval Charts

For example, Spray Nozzle Model A-2 (VK740) with a 1.2 K-Factor, a 30° spray angle, and a Brass finish = Part No. 05133AAJ

**Dust Plugs (Optional):** Dust plugs are used to prevent the depositing of foreign materials in the waterway, which could interfere with the discharge of the spray nozzles. The plugs are designed to blow off when the system piping is pressurized.

Part Number 02409A for use with Spray Nozzle Part Nos. 05133AAJ through 05135AJN.

Part Number 02410A for use with Spray Nozzle Part Nos. 19505AJ through 19506JN.

Viking Technical Data may be found on The Viking Corporation’s Web site at http://www.vikinggroupinc.com.

The Web site may include a more recent edition of this Technical Data Page.

(Added C&D nozzles, UL only)
4. INSTALLATION

WARNING: Viking Model A-2, A-2X, B-2, C-2, and D-2 Solid Cone Spray Nozzles are manufactured and tested to meet the rigid requirements of the approving agency. The nozzles are designed to be installed in accordance with recognized installation standards. Deviation from the standards or any alteration to the nozzle after it leaves the factory including, but not limited to: painting, plating, coating, or modification, may render the unit inoperative and will automatically nullify the approval and any guarantee made by The Viking Corporation.

The Approval Charts on pages 4-5 show listings and approvals of Model A-2, A-2X, B-2, C-2, and D-2 Spray Nozzles for use on water spray systems. The charts show listings and approvals available at the time of printing. Other approvals are in process. Check with the manufacturer for any additional approvals.

A. Spray nozzles are to be installed in accordance with the latest edition of Viking technical data, the latest published 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. The use of Model A-2, A-2X, B-2, C-2, and D-2 Spray Nozzles may be limited due to occupancy and hazard. Refer to the Authority Having Jurisdiction prior to installation.

B. Spray nozzles are installed on fixed fire protection systems, such as deluge systems, where total flooding is required.

C. Handle Spray Nozzles with care. They must be stored in a cool, dry place in their original shipping container. Never install a spray nozzle that has been dropped or damaged.

D. Corrosion-resistant spray nozzles must be installed when subject to corrosive atmospheres. When installing corrosion resistant nozzles, take care not to damage the corrosion resistant coating.

E. Spray nozzles must be installed after the piping is in place to prevent mechanical damage.

F. Before installing, be sure to have the appropriate model, with the correct K-Factor and spray angle. Spray nozzle bodies are permanently marked with the model number. All inserts are permanently marked with the angle of discharge and model.

1. Apply a small amount of pipe-joint compound or tape to the external threads of the spray nozzle only, taking care not to allow a build-up of compound inside the inlet.

2. Install the nozzle on the fixed piping using a standard crescent wrench. Take care not to over-tighten or damage the spray nozzle.

G. Spray nozzles must be protected from mechanical damage. Where open spray nozzles are used, care must be taken to prevent foreign materials from entering the orifice. Foreign materials may accumulate and restrict or plug the waterway and may prevent proper operation of the spray nozzle.

H. Install dust plugs (if used): After installing the spray nozzle unit, press the dust cover over the end of the nozzle insert.

5. OPERATION

Model A-2, A-2X, B-2, C-2, and D-2 Solid Cone Spray Nozzles are designed to apply cooling water to exposed vertical, horizontal, curved, and irregular shaped surfaces to allow cooling of objects externally when exposed to an adjacent fire. Cooling is done to prevent objects from absorbing heat that could cause structural damage and possible spread of fire to the protected object. In some applications, Model A-2, A-2X, B-2, C-2, and D-2 Spray Nozzles may be applied to control or extinguish fire of the protected area (depending on water design application density).

6. INSPECTIONS, TESTS AND MAINTENANCE

NOTICE: The owner is responsible for maintaining the fire protection system and devices in proper operating condition. For minimum maintenance and inspection requirements, refer to the NFPA standard (e.g., NFPA 25) that describes care and maintenance of sprinkler systems. In addition, the Authority Having Jurisdiction may have additional maintenance, testing, and inspection requirements that must be followed.

A. Spray nozzles must be inspected on a regular basis for corrosion, mechanical damage, obstructions, paint, etc. Where open spray nozzles are installed, verify that foreign materials (such as dust, dirt, etc.) do not restrict or plug the waterspray. The frequency of inspections may vary due to corrosive atmospheres, water supplies, and activity around the device. It is also recommended that outdoor installations of Solid Cone Spray Nozzles with dust plugs be periodically inspected, during freezing weather conditions, for the presence of ice buildup from trapped condensate which could affect the proper release of the plugs.

B. Spray nozzles that have been painted or mechanically damaged must be replaced immediately. Nozzles showing signs of corrosion shall be tested and/or replaced immediately as required. When replacing spray nozzles, use only new spray nozzles.

1. Using a standard crescent wrench, remove the old spray nozzle and install the new unit. Care must be taken to ensure that the replacement spray nozzle is the proper model with the correct K-Factor. Spray nozzle bodies are permanently marked with the model number. All inserts are permanently marked with the angle of discharge and model.

C. The spray nozzle discharge pattern is critical for proper fire protection. Therefore, nothing should be hung from, attached to, or otherwise obstruct the discharge pattern. All obstructions must be immediately removed or, if necessary, additional nozzles installed.
### TABLE 1: SPRAY NOZZLE DIMENSIONS

<table>
<thead>
<tr>
<th>SIN</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
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<tr>
<td>VK740-VK764</td>
<td>1-7/8”</td>
<td>7/8”</td>
<td>1/2”</td>
<td>1-5/8”</td>
<td>13/16”</td>
<td>5/16”</td>
<td>1-17/64”</td>
<td>1-11/16”</td>
</tr>
<tr>
<td></td>
<td>(48 mm)</td>
<td>(22 mm)</td>
<td>(13 mm)</td>
<td>(41 mm)</td>
<td>(21 mm)</td>
<td>(8 mm)</td>
<td>(32 mm)</td>
<td>(43 mm)</td>
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<tr>
<td>VK770-VK784</td>
<td>2-1/16”</td>
<td>1”</td>
<td>5/8”</td>
<td>2-3/16”</td>
<td>1”</td>
<td>3/8”</td>
<td>1-17/32”</td>
<td>2”</td>
</tr>
<tr>
<td></td>
<td>(52 mm)</td>
<td>(25 mm)</td>
<td>(16 mm)</td>
<td>(56 mm)</td>
<td>(25 mm)</td>
<td>(10 mm)</td>
<td>(39 mm)</td>
<td>(51 mm)</td>
</tr>
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</table>

![Figure 1: Spray Nozzle Dimensions](image)
### Approval Chart 1

Model A-2, A-2X, B-2, C-2, and D-2 Spray Nozzles - Brass Finish

<table>
<thead>
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<th>SIN</th>
<th>Nominal K-Factor</th>
<th>Angle</th>
<th>U.S. metric</th>
<th>cULus</th>
<th>NYC</th>
<th>FM</th>
<th>LPCB</th>
<th>VdS</th>
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<td>VK740</td>
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<td>30°</td>
<td>17.3</td>
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<td>Yes</td>
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<tr>
<td>05133AAM</td>
<td>VK743</td>
<td>1.4</td>
<td>20.2</td>
<td>120°</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>--</td>
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<tr>
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<td>VK741</td>
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<td>60°</td>
<td>17.3</td>
<td>Yes</td>
<td>Yes</td>
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<td>90°</td>
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<td>Yes</td>
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<td>90°</td>
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<td>30°</td>
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<td>Yes</td>
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<td>90°</td>
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<td>Yes</td>
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<tr>
<td>05135AAJ</td>
<td>VK760</td>
<td>2.8</td>
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<td>90°</td>
<td>40.4</td>
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<td>Yes</td>
<td>Yes</td>
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<td>--</td>
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<td>VK762</td>
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<td>40.4</td>
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<td>Yes</td>
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<td>19505AJ</td>
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<td>VK780</td>
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<td>19506AK</td>
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<td>67.8</td>
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<td>VK782</td>
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<td>72.1</td>
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<td>--</td>
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</tbody>
</table>

### Footnotes

1. Spray nozzle bodies are permanently marked with the model number. All inserts are permanently marked with the angle of discharge and model.
2. Metric K-Factor 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. Approved by the NYC Board of Standards and Appeals, MEA No. 219-76-SA, Bulletin No. 16, Vol. LXI.
6. Orifice diameter is less than 3/8” (9.4mm) for Model A-2 Nozzles with K-Factors of 1.2 and 1.4 and Model A-2X Nozzles with K-Factors of 2.0 and 2.2. A pipeline strainer with a 1/8” (3.2mm) or less perforation is required for FM Approval.
## Approval Chart 2

Model A-2, A-2X, B-2, C-2, and D-2 Spray Nozzles - Electroless Nickel Finish

<table>
<thead>
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<th>Part Number</th>
<th>SIN</th>
<th>Nominal K-Factor</th>
<th>Angle</th>
<th>Listings and Approvals</th>
<th>Part Number</th>
<th>SIN</th>
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Model A-2 Electroless Nickel Finish

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<th>Angle</th>
<th>Listings and Approvals</th>
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<th>Nominal K-Factor</th>
<th>Angle</th>
<th>Listings and Approvals</th>
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<td>VK740</td>
<td>1.2</td>
<td>17.3</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>05133AJM</td>
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<tr>
<td>05133AJK</td>
<td>VK741</td>
<td>1.2</td>
<td>17.3</td>
<td>60°</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>05133AJN</td>
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<tr>
<td>05133AJL</td>
<td>VK742</td>
<td>1.2</td>
<td>17.3</td>
<td>90°</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>VK741</td>
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Model A-2X Electroless Nickel Finish

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<td>VK750</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>2.0</td>
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<td>Yes</td>
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<td>28.8</td>
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Model B-2 Electroless Nickel Finish

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<th>Angle</th>
<th>Listings and Approvals</th>
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<th>Angle</th>
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<td>Yes</td>
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<td>VK762</td>
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<td>Yes</td>
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<td>Yes</td>
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Model C-2 Electroless Nickel Finish

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<th>Part Number</th>
<th>SIN</th>
<th>Nominal K-Factor</th>
<th>Angle</th>
<th>Listings and Approvals</th>
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Model D-2 Electroless Nickel Finish

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<th>Angle</th>
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**Footnotes**

1 Spray nozzle bodies are permanently marked with the model number. All inserts are permanently marked with the angle of discharge and model.

2 Metric K-Factor 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 Approved by the NYC Board of Standards and Appeals, MEA No. 219-76-SA, Bulletin No. 16, Vol. LXI.

6 Orifice diameter is less than 3/8" (9.4mm) for Model A-2 Nozzles with K-Factors of 1.2 and 1.4 and Model A-2X Nozzles with K-Factors of 2.0 and 2.2. A pipeline strainer with a 1/8" (3.2mm) or less perforation is required for FM Approval.
**DESIGN CRITERIA**
(Also refer to the Approval Charts on pages 4-5.)

**cULus Listing Requirements:**
Refer to the installation standards, such as NFPA 15, for minimum water supply requirements, nozzle pressure, and installation guidelines.

**FM Approval Requirements:**
For installation in accordance with the latest applicable FM Loss Prevention Data Sheets and Technical Advisory Bulletins. FM Global Loss Prevention Data Sheets and Technical Advisory Bulletins contain guidelines relating to, but not limited to: minimum water supply requirements, hydraulic design, ceiling slope and obstructions, minimum and maximum allowable spacing, and distance below the ceiling.

**Pipeline Strainers** Orifice diameter is less than 3/8” (9.4mm) for Model A-2 Nozzles with K-Factors of 1.2 and 1.4 and Model A-2X Nozzles with K-Factors of 2.0 and 2.2. A pipeline strainer with a 1/8” (3.2mm) or less perforation is required for FM Approval.

**NOTE:** The FM installation guidelines may differ from cULus and/or NFPA criteria.

**IMPORTANT:** Always refer to Bulletin Form No. F_091699 - Care and Handling of Sprinklers. Viking spray nozzles 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.

D. Fire protection systems that have been subjected to a fire must be returned to service as soon as possible. The entire system must be inspected for damage and repaired or replaced as necessary. Spray nozzles that have been exposed to corrosive products of combustion or high ambient temperatures, should be replaced. Refer to the Authority Having Jurisdiction for minimum replacement requirements.

7. **AVAILABILITY**
The Viking Model A-2, A-2X, B-2, C-2, and D-2 Solid Cone Spray Nozzles are 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.
The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058
Telephone: 269-945-9501 Technical Services 877-384-5464 Fax: 269-945-4495 Email: techsvcs@vikingcorp.com

SOLID CONE SPRAY NOZZLES - WATER DISTRIBUTION PATTERNS

Spray Nozzle Model: A2X (VK750-VK754†)
Spray Nozzle Base P/Ns: 05134AA & 05134AJ*
Angle: 30°
Thread Size: 1/2" NPT
K-Factor: 2.0 U.S. (28.8 metric)

Spray Nozzle Model: A2X (VK750-VK754†)
Spray Nozzle Base P/Ns: 05134AA & 05134AJ*
Angle: 60°
Thread Size: 1/2" NPT
K-Factor: 2.0 U.S. (28.8 metric)

Spray Nozzle Model: A2X (VK750-VK754†)
Spray Nozzle Base P/Ns: 05134AA & 05134AJ*
Angle: 90°
Thread Size: 1/2" NPT
K-Factor: 2.0 U.S. (28.8 metric)

Spray Nozzle Model: A2X (VK750-VK754†)
Spray Nozzle Base P/Ns: 05134AA & 05134AJ*
Angle: 120°
Thread Size: 1/2" NPT
K-Factor: 2.2 U.S. (31.7 metric)

Scale: Each square equals one square foot. †Spray Nozzle Identification Numbers provided in accordance with the 1999 edition of NFPA 13, Section 3-2.2.
* Base part numbers shown. For complete part number, refer to Viking’s current price list.
Spray Nozzle Model: A2X (VK750-VK754†)
Spray Nozzle Base P/Ns: 05134AA & 05134AJ*
Angle: 140°
Thread Size: 1/2" NPT
K-Factor: 2.2 U.S. (31.7 metric)

Spray Nozzle Model: A2 (VK740-VK744†)
Spray Nozzle Base P/Ns: 05133AA & 05133AJ*
Angle: 30°
Thread Size: 1/2" NPT
K-Factor: 1.2 U.S. (17.3 metric)

Spray Nozzle Model: A2 (VK740-VK744†)
Spray Nozzle Base P/Ns: 05133AA & 05133AJ*
Angle: 60°
Thread Size: 1/2" NPT
K-Factor: 1.2 U.S. (17.3 metric)

Spray Nozzle Model: A2 (VK740-VK744†)
Spray Nozzle Base P/Ns: 05133AA & 05133AJ*
Angle: 90°
Thread Size: 1/2" NPT
K-Factor: 1.2 U.S. (17.3 metric)

Scale: Each square equals one square foot. †Spray Nozzle Identification Numbers provided in accordance with the 1999 edition of NFPA 13, Section 3-2.2.
* Base part numbers shown. For complete part number, refer to Viking’s current price list.
Spray Nozzle Model: A2 (VK740-VK744†)
Spray Nozzle Base P/Ns: 05133AA & 05133AJ*
Angle: 120°
Thread Size: 1/2" NPT
K-Factor: 1.4 U.S. (20.2 metric)

Spray Nozzle Model: B2 (VK760-VK764†)
Spray Nozzle Base P/Ns: 05135AA & 05135AJ*
Angle: 30°
Thread Size: 1/2" NPT
K-Factor: 2.8 U.S. (40.4 metric)

Spray Nozzle Model: A2 (VK740-VK744†)
Spray Nozzle Base P/Ns: 05133AA & 05133AJ*
Angle: 140°
Thread Size: 1/2" NPT
K-Factor: 1.4 U.S. (20.2 metric)

Spray Nozzle Model: B2 (VK760-VK764†)
Spray Nozzle Base P/Ns: 05135AA & 05135AJ*
Angle: 60°
Thread Size: 1/2" NPT
K-Factor: 2.8 U.S. (40.4 metric)

Scale: Each square equals one square foot. †Spray Nozzle Identification Numbers provided in accordance with the 1999 edition of NFPA 13, Section 3-2.2.
* Base part numbers shown. For complete part number, refer to Viking's current price list.
Spray Nozzle Model: B2 (VK760-VK764†)
Spray Nozzle Base P/Ns: 05135AA & 05135AJ*
Angle: 90°
Thread Size: 1/2'' NPT
K-Factor: 2.8 U.S. (40.4 metric)

Spray Nozzle Model: B2 (VK760-VK764†)
Spray Nozzle Base P/Ns: 05135AA & 05135AJ*
Angle: 120°
Thread Size: 1/2'' NPT
K-Factor: 3.3 U.S. (47.6 metric)

Spray Nozzle Model: B2 (VK760-VK764†)
Spray Nozzle Base P/Ns: 05135AA & 05135AJ*
Angle: 140°
Thread Size: 1/2'' NPT
K-Factor: 3.3 U.S. (47.6 metric)

Spray Nozzle Model: C2 (VK770-VK774†)
Spray Nozzle Base P/Ns: 19505A & 19505J*
Angle: 30°
Thread Size: 1/2'' NPT
K-Factor: 3.3 U.S. (49.0 metric)

Scale: Each square equals one square foot. †Spray Nozzle Identification Numbers provided in accordance with the 1999 edition of NFPA 13, Section 3-2.2. * Base part numbers shown. For complete part number, refer to Viking’s current price list.
Spray Nozzle Model: C2 (VK770-VK774†)
Spray Nozzle Base P/Ns: 19505A & 19505J*
Angle: 60°
Thread Size: 1/2" NPT
K-Factor: 3.3 U.S. (49.0 metric)

Legend
- 10 P.S.I.
- 20 P.S.I.
- 30 P.S.I.
- 50 P.S.I.

Top View-Horizontal Spray
Side View-Horizontal Spray

Spray Nozzle Model: C2 (VK770-VK774†)
Spray Nozzle Base P/Ns: 19505A & 19505J*
Angle: 90°
Thread Size: 1/2" NPT
K-Factor: 3.8 U.S. (54.8 metric)

Legend
- 10 P.S.I.
- 20 P.S.I.
- 30 P.S.I.
- 50 P.S.I.

Top View-Horizontal Spray
Side View-Horizontal Spray

Spray Nozzle Model: C2 (VK770-VK774†)
Spray Nozzle Base P/Ns: 19505A & 19505J*
Angle: 120°
Thread Size: 1/2" NPT
K-Factor: 3.7 U.S. (56.2 metric)

Legend
- 10 P.S.I.
- 20 P.S.I.
- 30 P.S.I.
- 50 P.S.I.

Top View-Horizontal Spray
Side View-Horizontal Spray

Spray Nozzle Model: C2 (VK770-VK774†)
Spray Nozzle Base P/Ns: 19505A & 19505J*
Angle: 140°
Thread Size: 1/2" NPT
K-Factor: 3.7 U.S. (56.2 metric)

Legend
- 10 P.S.I.
- 20 P.S.I.
- 30 P.S.I.
- 50 P.S.I.

Top View-Horizontal Spray
Side View-Horizontal Spray

Scale: Each square equals one square foot. †Spray Nozzle Identification Numbers provided in accordance with the 1999 edition of NFPA 13, Section 3-2.2.
* Base part numbers shown. For complete part number, refer to Viking's current price list.
Spray Nozzle Model:
D2 (VK780-VK784†)
Spray Nozzle Base P/Ns:
19506A & 19506J*
Angle: 30°
Thread Size: 1/2" NPT
K-Factor: 4.3 U.S. (67.8 metric)

Spray Nozzle Model:
D2 (VK780-VK784†)
Spray Nozzle Base P/Ns:
19506A & 19506J*
Angle: 60°
Thread Size: 1/2" NPT
K-Factor: 4.3 U.S. (67.8 metric)

Spray Nozzle Model:
D2 (VK780-VK784†)
Spray Nozzle Base P/Ns:
19506A & 19506J*
Angle: 90°
Thread Size: 1/2" NPT
K-Factor: 5.0 U.S. (72.1 metric)

Spray Nozzle Model:
D2 (VK780-VK784†)
Spray Nozzle Base P/Ns:
19506A & 19506J*
Angle: 120°
Thread Size: 1/2" NPT
K-Factor: 4.9 U.S. (75.0 metric)

Scale: Each square equals one square foot. †Spray Nozzle Identification Numbers provided in accordance with the 1999 edition of NFPA 13, Section 3-2.2.
* Base part numbers shown. For complete part number, refer to Viking's current price list.
Spray Nozzle Model: D2 (VK780-VK784†)
Spray Nozzle Base P/Ns: 19506A & 19506J*
Angle: 140°
Thread Size: 1/2" NPT
K-Factor: 4.9 U.S. (75.0 metric)

**LEGEND**
- 10 P.S.I. — — — — — — — — — —
- 20 P.S.I. — — — — — — — — — —
- 30 P.S.I. — — — — — — — — — —
- 50 P.S.I. — — — — — — — — — —

Scale: Each square equals one square foot. †Spray Nozzle Identification Numbers provided in accordance with the 1999 edition of NFPA 13, Section 3-2.2.
* Base part numbers shown. For complete part number, refer to Viking’s current price list.