



TECHNICAL DATA

VK-1230 FIRE EXTINGUISHING SYSTEM DISCHARGE NOZZLES

The technical data described herein is for a component of the Viking VK-1230. For design, installation, and operation instructions, refer to the latest edition of VK-1230 original source documents: Installation and Service Manual (Part No. 17095), Design Manual (Part No. 17093), and Operation Manual (Part No. 17094).

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1. DESCRIPTION

In the VK-1230 Fire Extinguishing System, discharge nozzles are used to:


- Apply the extinguishing agent within the calculated flooding time and to distribute it uniformly in the protected enclosure.

Two types of nozzles are available for the VK-1230 Fire Extinguishing System:

- 180° nozzles that spray the extinguishing agent in a semicircle around the discharge nozzles
- 360° nozzles that spray the extinguishing agent in a full circle around the discharge nozzles



2. LISTINGS AND APPROVALS

 **UL Listed:** Clean Agent Extinguishing System Unit

 **FM Approved:** Clean Agent Fire Extinguishing System

3. TECHNICAL DATA

Specifications

- Available since 2011.
- Minimum and Maximum Agent Storage Temperatures: 0 °F to 122 °F (-18 °C to 50 °C)
- Minimum and Maximum Temperatures of Protected Spaces per UL and FM: 60 °F to 80 °F (15.6 °C to 26.7 °C)
- Minimum Operating Pressure: 111 psi (7.65 bar)
- Maximum Operating Pressure: 870 psi (60 bar)
- Radius 180° Discharge Nozzle: 35'-9" (10.91 m)
- Radius 360° Discharge Nozzle: 22'-7" (6.9 m)
- Maximum Extinguishing Agent Quantity per Nozzle: 476 lbs (216 kg)
- Nozzle Orifice Diameters: Refer to Table 1 for limits. NOTE: Orifice diameter gradations are in .001 inch increments.
- Thread sizes: 1/2", 1", 1-1/2", and 2" NPT

NOTE: The discharge nozzle is identified with the manufacturer, part number, and orifice diameter.

Material Standards

Nozzle: Brass UNS-C36000

Ordering Information

To order the Viking VK-1230 Fire Extinguishing System Discharge Nozzles, refer to the following part numbers:

TABLE 1: DISCHARGE NOZZLE PART NUMBERS

Thread Size	Min. Orifice Diameter	Max. Orifice Diameter	Part No. 180° Spray Angle	Part No. 360° Spray Angle
1/2" NPT	0.118" (3 mm)	0.512" (13 mm)	16606	16610
1" NPT	0.118" (3 mm)	0.886" (22.5 mm)	16607	16611
1-1/2" NPT	0.118" (3 mm)	1.398" (35.5 mm)	16608	16612
2" NPT	0.118" (3 mm)	1.752" (44.5 mm)	16609	16613

NOTE: Orifice diameter gradations are in 0.001 inch increments.

NOTE: The nozzle base part number is followed by a three-digit number that refers to the orifice diameter.

Example: A 1/2" NPT nozzle with a 180° pattern, and an orifice diameter of 0.220" = Part No. 16606-220.

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.



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4. INSTALLATION, SERVICE, AND MAINTENANCE

WARNING

The VK-1230 Fire Extinguishing System must be installed, serviced, and maintained in accordance with the Installation and Service Manual, Design Manual, and Operation Manual (part numbers 17095, 17094, and 17093) and NFPA 2001: Standard on Clean Agent Fire Extinguishing Systems and applicable NFPA standards. In addition, the Authority Having Jurisdiction may have additional maintenance, testing and inspection requirements that must be followed.

Failure to follow these instructions could cause improper system operation, resulting in serious personal injury and/or property damage.

5. OPERATION

Refer to the VK-1230 Fire Extinguishing System Operation Manual.

6. AVAILABILITY

VK-1230 Fire Extinguishing System 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.

7. GUARANTEE

For details of warranty, refer to Viking's current list price schedule or contact Viking directly.

