

	TECHNICAL DATA	VK-200 FIRE EXTINGUISHING SYSTEM DISCHARGE NOZZLES
<p>The technical data described herein is for a component of the Viking VK-200. For design, installation, and operation instructions, refer to the latest edition of VK-200 original source documents: Installation and Service Manual (Part No. 17213), Design Manual (Part No. 17211), and Operation Manual (Part No. 17212).</p>		

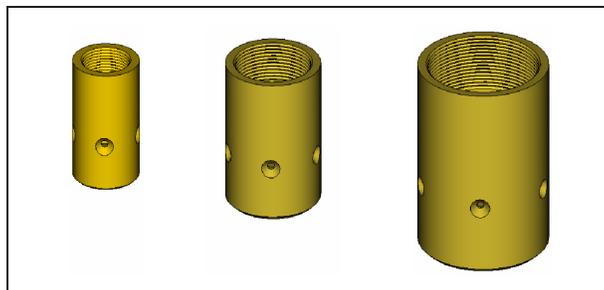
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Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

1. DESCRIPTION

In the VK-200 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-200 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

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.

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: 131 psi (9 bar)
- Maximum Operating Pressure: 870 psi (60 bar)
- Radius 180° Discharge Nozzle: 36'-8" (11.2 m)
- Radius 360° Discharge Nozzle: 23'-1" (7.1 m)
- Maximum Extinguishing Agent Quantity per Nozzle: 467 lbs (212 kg)
- Nozzle Orifice Diameters: Refer to Table 1 for limits. NOTE: Orifice diameter gradations are in 0.001 inch increments.
- Thread sizes: 1/2", 1", and 1-1/2" NPT

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

Material Standards

Nozzle: Brass UNS-C36000

Ordering Information

To order the Viking VK-200 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	
		180°	360°	# of Orifices	Part No.	# of Orifices	Part No.
1/2" NPT	0.118"	0.236"	0.197"	3	17162	4	17165
1" NPT	0.118"	0.433"	0.394"	3	17163	4	17166
1-1/2" NPT	0.118"	0.709"	0.630"	3	17164	4	17167

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 orifice diameter of 0.118" = Part No. 17162-0118.

Adjustable Spanner Wrench (optional, for nozzle installation): Part number 18038



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4. INSTALLATION, SERVICE, AND MAINTENANCE

⚠ WARNING

The VK-200 Fire Extinguishing System must be installed, serviced, and maintained in accordance with the Installation and Service Manual, Design Manual, and Operation Manual (part numbers 17213, 17211, and 17212) 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-200 Fire Extinguishing System Operation Manual.

6. AVAILABILITY

VK-200 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.

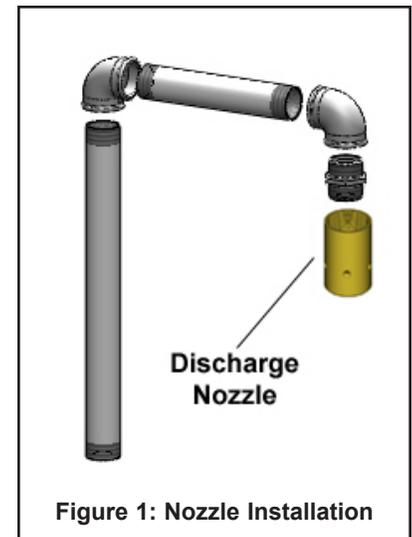


Figure 1: Nozzle Installation