



TECHNICAL DATA

VSH200 NOZZLES

The Viking Corporation | 210 N Industrial Park Drive | Hastings MI 49058

Viking Special Hazards | Technical Services: 877-384-5464 | Email: techsvcs@vikingcorp.com | www.vikinggroupinc.com

The technical data described herein is for components of the Viking VSH200 Clean Agent Systems.

For design, installation, and operation instructions, refer to the latest edition of the original source documents as outlined below.
VSH200: Installation and Service Manual (Part No. 932167), Design Manual (Part No. 932165), and Operation Manual (Part No. 932169).
Visit the Viking website for the latest edition of the technical manuals listed above.

1. DESCRIPTION

In the VSH200 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 VSH200 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



WARNING: Cancer and Reproductive Harm-
www.P65Warnings.ca.gov

3. TECHNICAL DATA

Specifications

- 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 Effective Nozzle Height: 16.4' (5.0 m)
- Maximum Extinguishing Agent Quantity per Nozzle: 407.8 lbs (725 psi) 338.4 lbs (360 psi)
- Nozzle Orifice Diameters: Refer to Table 1 for limits. NOTE: Orifice diameter gradations are in 0.004 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 VSH200 Fire Extinguishing System Discharge Nozzles, refer to the following part numbers:

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. 889036-0118.

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

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°	180°	360°	# of Orifices	Part No.	# of Orifices	Part No.
1/2" NPT	0.138"	0.118"	0.228"	0.197"	3	889036	4	889037
1" NPT	0.220"	0.189"	0.402"	0.346"	3	889040	4	889041
1-1/2" NPT	0.327"	0.283"	0.598"	0.520"	3	889044	4	889045

NOTE: Orifice diameter gradations are in 0.004 inch increments.