



## TECHNICAL DATA

## VSH1230 NOZZLES

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The technical data described herein is for components of the Viking VSH1230 Clean Agent System.

Visit the Viking website for the latest edition of the technical data and system manuals.

### 1. DESCRIPTION

In the VSH1230 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 VSH1230 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: 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 Effective Nozzle Height: 14' (4.27 m)
- Extended Maximum Effective Nozzle Height: 17.9' (5.45 m) - with higher design concentration as a prerequisite
- Maximum Extinguishing Agent Quantity per Nozzle: 466 lbs (725 psi) 386.7 lbs (360 psi)
- Nozzle Orifice Diameters: Refer to Table 1 for limits. NOTE: Orifice diameter gradations are in .004 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) or Stainless Steel (EN10088-3-1.4571)

#### Ordering Information

To order the Viking VSH1230 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 an orifice diameter of 0.220" = Part No. 889061-0220.

**TABLE 1: DISCHARGE NOZZLE PART NUMBERS**

Thread Size (NPT)	Min. Orifice Ø	Max. Orifice Ø	180° Spray Angle Part #s		360° Spray Angle Part #s	
			Brass	Stainless Steel	Brass	Stainless Steel
1/2"	0.118"	0.512" (0.510 & 0.512)	889061	889065	889069	889074
1"	0.118"	0.886"	889062	889066	889070	889075
1-1/2"	0.118"	1.398"	889063	889067	889071	889076
2"	0.118"	1.752" (1.750 & 1.752)	889064	889068	889073	889077

**NOTE:** Orifice diameter gradations are in 0.004 inch increments unless noted above in parentheses ( ).