



TECHNICAL DATA

NPT HOSES, CONNECTIONS, AND MISCELLANEOUS COMPONENTS

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

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The technical data described herein is for components of the Viking VSH200 and VSH1230 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).

VSH1230: Installation and Service Manual (Part No. 932159), Design Manual (Part No. 932157), and Operation Manual (Part No. 932161).

Visit the Viking website for the latest edition of the technical manuals listed above.

1. DESCRIPTION

Viking VSH1230 and VSH200 Fire Extinguishing Systems utilize hoses (or pipe) and NPT connections to attach the system's container assembly to the system's downstream nozzle pipeline.

The NPT connection is used as an adapter between the cylinder valve and the pipeline, or between the hose and pipeline.

A flexible steel hose with a 90° bend is available as an option.

The hose has steel connectors on both ends with two thread size options:

1-7/8" UN x 1-1/2" NPT (for use with the 55, 60, 130, and 140 lb. cylinder assemblies)

2-1/2" UN x 2" NPT (for use with 200, 220, 270, 280, 350, 370, 390, 450 and 500 lb. cylinder assemblies)

For Multi Container Systems, a check valve is required between the hose and the manifold for each cylinder.

Multi Container Systems also utilize pilot line(s) to connect the master cylinder to an additional cylinder (and each consecutive cylinder). The last cylinder is required to have a Pressure Malfunction Safety Assembly for dissipating a slow increase in pressure.

NOTE: Each pilot line end and each pilot line safety valve connection requires a pilot line adapter.

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

Hose Specifications

- Max. Operating Pressure: 870 psi (60 bar)
- Test Pressure (Hoses): 1,740 psi (120 bar)
- Burst Pressure (Hoses): 3,481 psi (240 bar)
- Thread Sizes: Refer to Table 1
- Nominal Diameter (Hose): 1-1/2" or 2" (DN40 or DN50)
- Minimum Bend Radius: 19-1/2" (496 mm) for the 1-1/2" hose, 24-3/4" (629 mm) for the 2" hose
- Operating Temperature Range: 0°F to 122°F (-18°C to 50°C)

Material Standards

- Hoses: Steel, galvanized, with flexible fabric inserted steel hose line
- NPT Connections and Adapters: Steel, galvanized
- Check Valve: Steel, galvanized, with stainless steel internal components
- Pilot Line: Rubber hydraulic hose with galvanized steel ends
- Pilot Line Adapter: Brass UNS-C36000
- Pilot Line Safety Valve: Brass UNS-C36000

Ordering Information: Refer to Table 1.

TABLE 1: PART NUMBERS

Description	Part No.	
Valve to NPT Pipe Connections		
1-7/8" UN x 1-1/2" NPT	17562	
2-1/2" UN x 2" NPT	17563	
90° Hoses		
1-7/8" UN x 1-1/2" NPT	912075	
2-1/2" UN x 2" NPT	912076	
Additional Components Needed for Multi Container Systems		
NPT Check Valve	912071	
Pilot Line Hoses, Adapters, and Pilot Line Safety Valve		
Pilot Line Hoses	24" (600 mm) long	887834
	39" (1,000 mm) long	887835
	59" (1,500 mm) long	887836
Pilot Line Adapter	887644	
Pilot Line Safety Valve Kit	889320	



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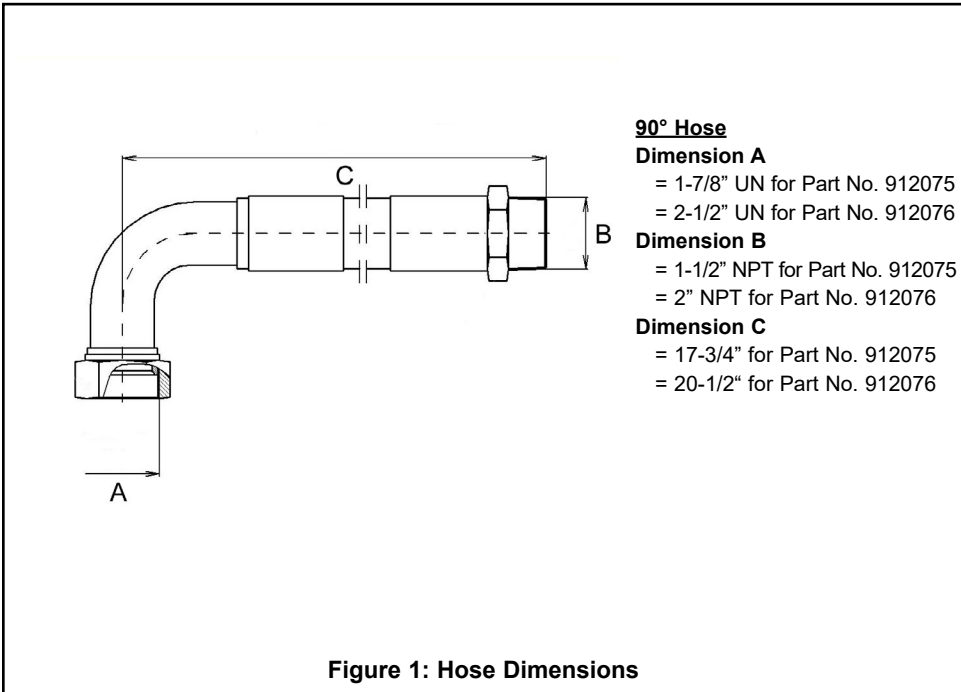


Figure 1: Hose Dimensions

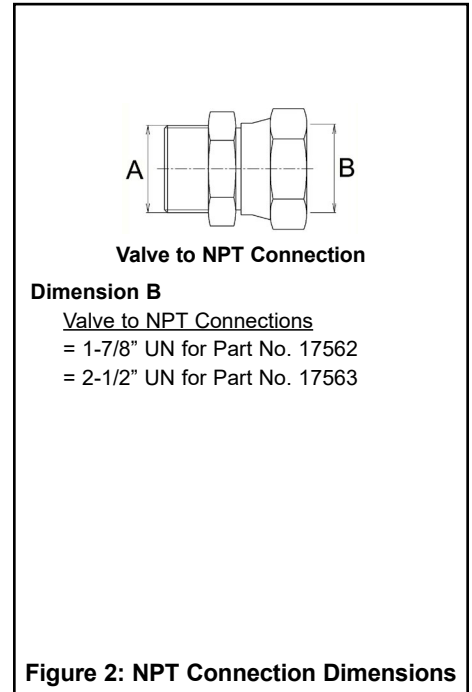


Figure 2: NPT Connection Dimensions

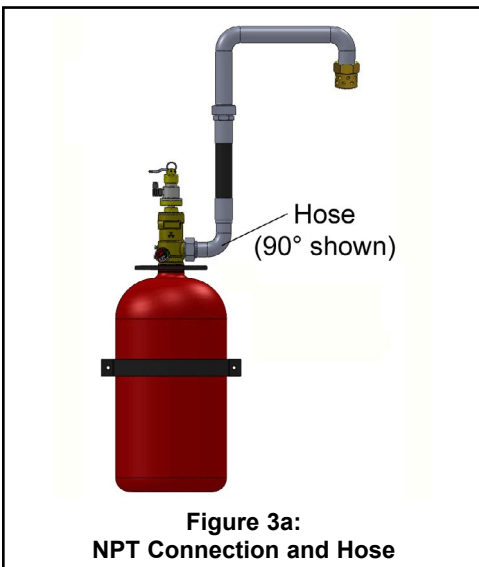


Figure 3a: NPT Connection and Hose

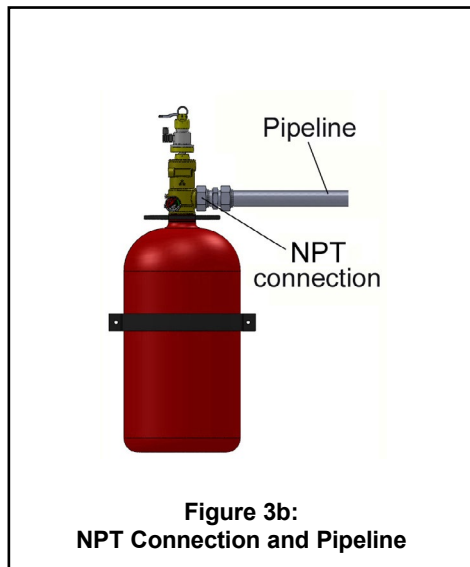


Figure 3b: NPT Connection and Pipeline

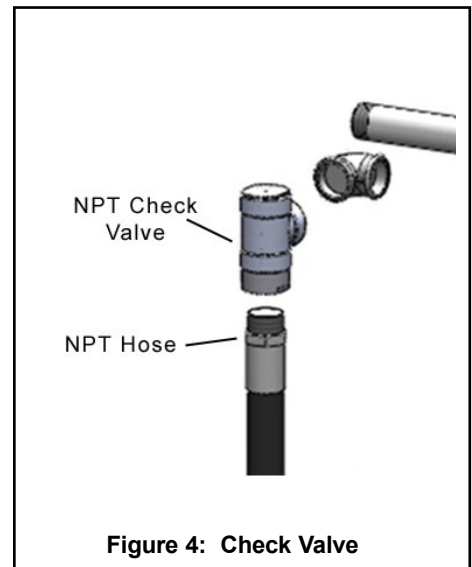


Figure 4: Check Valve



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