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 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.

2. LISTINGS AND APPROVALS

UL Listed: Clean Agent Extinguishing System Unit

FM Approved: Clean Agent Fire Extinguishing System

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 ºC to 50 ºC)

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.

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**TABLE 1: PART NUMBERS**

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

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WARNING: Cancer and Reproductive Harm-
www.P65Warnings.ca.gov
**NPT HOSES, CONNECTIONS, AND MISCELLANEOUS COMPONENTS**

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

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**Figure 1: Hose Dimensions**

**90° Hose**
- **Dimension A**
  - 1-7/8” UN for Part No. 912075
  - 2-1/2” UN for Part No. 912076
- **Dimension B**
  - 1-1/2” NPT for Part No. 912075
  - 2” NPT for Part No. 912076
- **Dimension C**
  - 17-3/4” for Part No. 912075
  - 20-1/2” for Part No. 912076

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**Figure 2: NPT Connection Dimensions**

**Valve to NPT Connection**
- **Dimension B**
  - 1-7/8” UN for Part No. 17562
  - 2-1/2” UN for Part No. 17563

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**Figure 3a: NPT Connection and Hose**

**Figure 3b: NPT Connection and Pipeline**

**Figure 4: Check Valve**
Figure 5: Pilot Line and Adapter

Figure 6: Pressure Malfunction Safety Assembly

Figure 7: Example of a Multi Container System

Figure 8: Check Valve Dimensions

Removes straight hose option; revised part numbers; Revised manual references.