



# TECHNICAL DATA

## VSH1230 / VSH200 AGENT DISCHARGE HOSE

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 and VSH1230 Clean Agent Systems.

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

### 1. DESCRIPTION

Viking VSH1230 and VSH200 Fire Extinguishing Systems utilize pilot hoses to connect the valve of the extinguishing agent cylinder to the nozzle pipe, the system manifold or the system check valve.



### 2. LISTINGS AND APPROVALS



UL Listed\* - EX5248



ULC Listed\* - EX5248



FM Approved: Clean Agent Fire Extinguishing System

\*Listed as a component of a VSH1230 and VSH200 Clean Agent Fire Extinguishing System

### 3. TECHNICAL DATA

#### Specifications

- Operating Medium: FK-5-1-12, HFC-227ea
- Nominal Diameter: 1-1/2" (DN40) and 2" (DN50)
- Operating Temperature Range: 0 °F to 122 °F (-18 °C to 50 °C)
- Minimum Bend Radius: 19.7" (500 mm)
- Working Pressure: 1,160 psi (80 bar)
- Test Pressure: 1,740 psi (120 bar)
- Burst Pressure: 3,481 psi (240 bar)

#### Material Standards

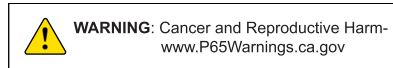
Flexible Hose Line: w/fabric-inserted steel

Hexagon Nipple: Galvanized steel

Union: Galvanized steel

Ferrule: Galvanized steel

**Ordering Information: Refer to Table 1.**



**TABLE 1: PART NUMBERS**

Description		Part No.*	Weight lbs (kg)
Pilot Line Hoses			
VSH1230/	1-1/2" (DN40) 90° NPT	24437	6.83 (3.1)
VSH200	2" (DN50) 90° NPT	24438	12.66 (5.7)
*Interchangeable with part numbers 912075 and 912076			

### 4. INSTALLATION AND DISASSEMBLY

#### 4.1 Installation of the Hose

NOTICE

MATERIAL DAMAGE DUE TO EXCESSIVE STRESS

If the hose is excessively stressed, it can be damaged and can leak.

- ⇒ Bend the hose in only one direction.
- ⇒ Do not stress the hose through torsion.
- ⇒ Do not underrange the minimum bending radius.

1. Wrap thread G2 (Fig. 1) with at least three layers of Teflon sealing tape
2. Screw the hose into the corresponding pipe fitting or check valve and align it carefully. The depth of the screw connection must be at least 9 mm (0,354 inch) for hoses with a nominal diameter of DN40 (1 ½") and 10 mm (0,394 inch) for hoses with a nominal diameter of DN50 (2").
3. Tightly screw on the cap nut (with wrench size SW1) to the corresponding extinguishing agent cylinder valve without using additional sealant.

#### 4.2 Disassembly of the hose

1. Unscrew the cap nut (wrench size SW1).
2. Unscrew the hose from the pipe fitting or check valve. Only the intended hexagonal wrench size SW2 must be used.



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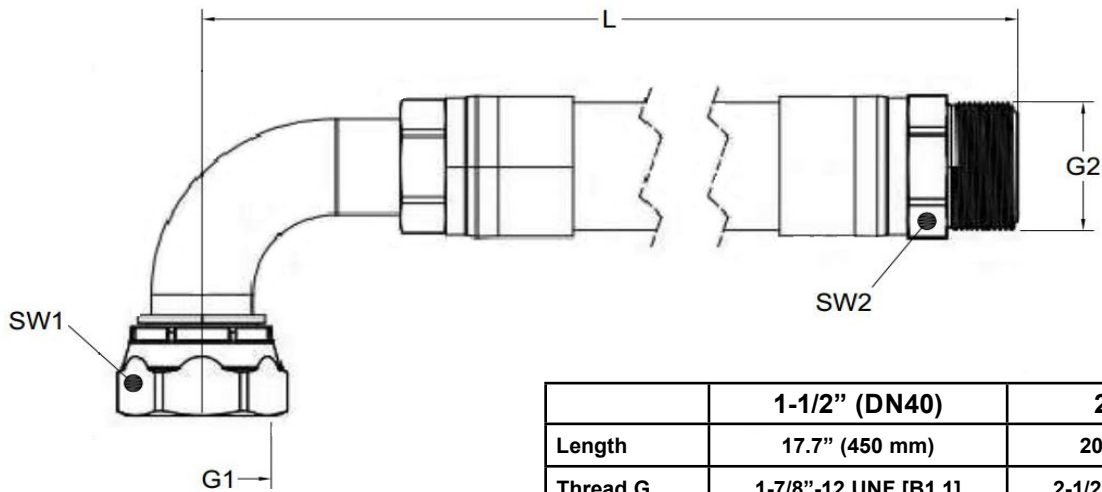
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	1-1/2" (DN40)	2" (DN50)
Length	17.7" (450 mm)	20.5" (520 mm)
Thread G <sub>1</sub>	1-7/8"-12 UNF [B1.1]	2-1/2"-12 UNF [B1.1]
Thread G <sub>2</sub>	1-1/2"-11.5 NPT	2"-11.5 NPT
Wrench SW <sub>1</sub>	2.36 inch (60 mm)	2.76/2.95 inch (70/75 mm)
Wrench SW <sub>2</sub>	1.97 inch (50 mm)	2.56 (65 mm)

Figure 1

## 5. MAINTENANCE

Always check pilot hoses during routine maintenance, for any residue and clean if necessary. Only use clean pilot hoses in the system. Contaminated pilot hoses can cause the system to malfunction. This can cause severe injuries and significant material and system damage.

**i** *Due to deterioration of the material, the hose must be replaced by a new one at the latest after 10 years. See marking "date of manufacture" (month/year) on the hose.*

1. Check the hose visually for external damage, corrosion at the armatures, cracks in the plastic coating and fouling.
2. Remove fouling with a damp cloth.

**i** *Cleaning agents that attack plastics, rubber, or metals must not be used under any circumstances.*

3. In case of damage, corrosion or cracks replace the hose immediately.

**i** *A repair is NOT recommended.*

4. Check that the hexagonal cap nuts are tight and retighten by means of a suitable tool or spanner if necessary.
5. Check that the bending radius of the hose is greater than the minimum bending radius.
6. Check that the hose is fitted without torsion.