



TECHNICAL DATA

MULTI-ZONE MANIFOLD ASSEMBLIES

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.

For design, installation, and operation instructions, refer to the latest edition of the original source documents as outlined below.

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

Compared to standard single zone systems the VSH1230 multi-zone option provides protection for multiple enclosures using less agent and at the same time occupying a minimal space. The total VSH1230 agent supply for multiple enclosures is calculated for the largest enclosure volume. All enclosures share a single agent supply through the use of selector valves. Control devices enable the release of less agent for varying enclosure volumes.

2. LISTINGS AND APPROVALS



UL Listed: Clean Agent Extinguishing System Unit



FM Approved: Clean Agent Fire Extinguishing System

3. TECHNICAL DATA

Selector Valve Specifications

Operating Temperature Range per VdS/CE: -4°F to +122°F (-20°C to +50°C)

Operating Temperature Range per UL/FM: 0°F to +122°F (-18°C to +50°C)

Working Pressure Pneumatic Actuator 290psi to 2031 psi (20 bar to 140 bar)

Test Pressure Pneumatic Actuator 3046psi (210 bar)

Manifold Specifications

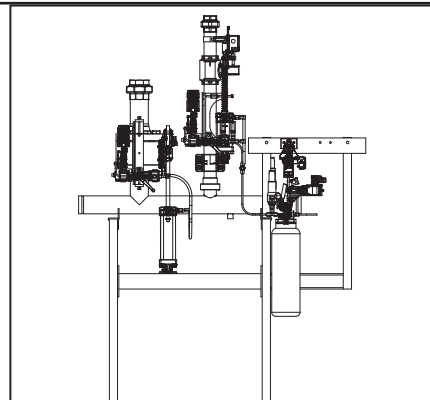
Operating Temperature Range per VdS/CE: -4°F to +122°F (-20°C to +50°C)

Operating Temperature Range per UL/FM: -0°F to +122°F (-18°C to +50°C)

Ordering Information - Refer to figures 1, 2, and tables 1 - 8

Multi-Zone manifold assemblies are ordered by first selecting the appropriate base part number for the size of the manifold needed. Then add the appropriate suffixes to the base part number for the required valve size. If a Pneumatic Release Device is required, an additional suffix (-P) is added to the end of the part number.

For example, a 3" manifold with a 2" (50mm) selector valve and a 1 1/2" (40mm) selector as well as an Pneumatic Release Device = 19376CB-P



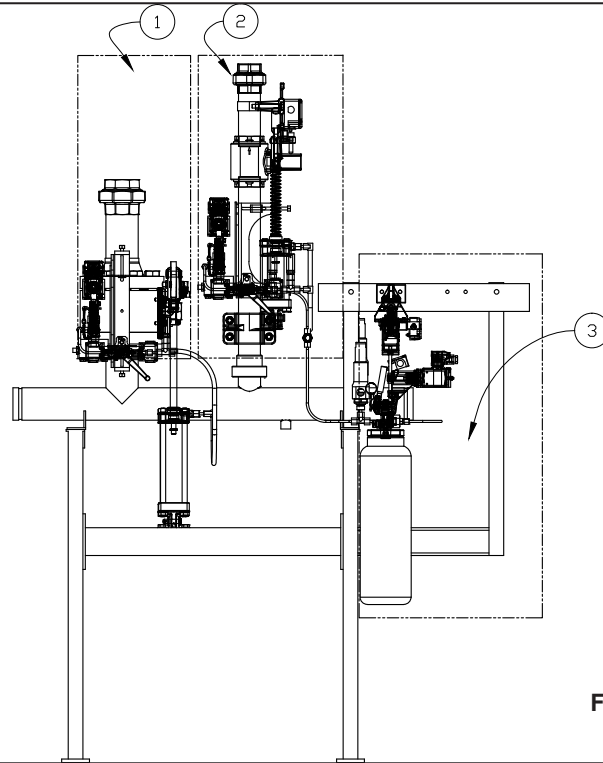
WARNING: Cancer and Reproductive Harm-
www.P65Warnings.ca.gov



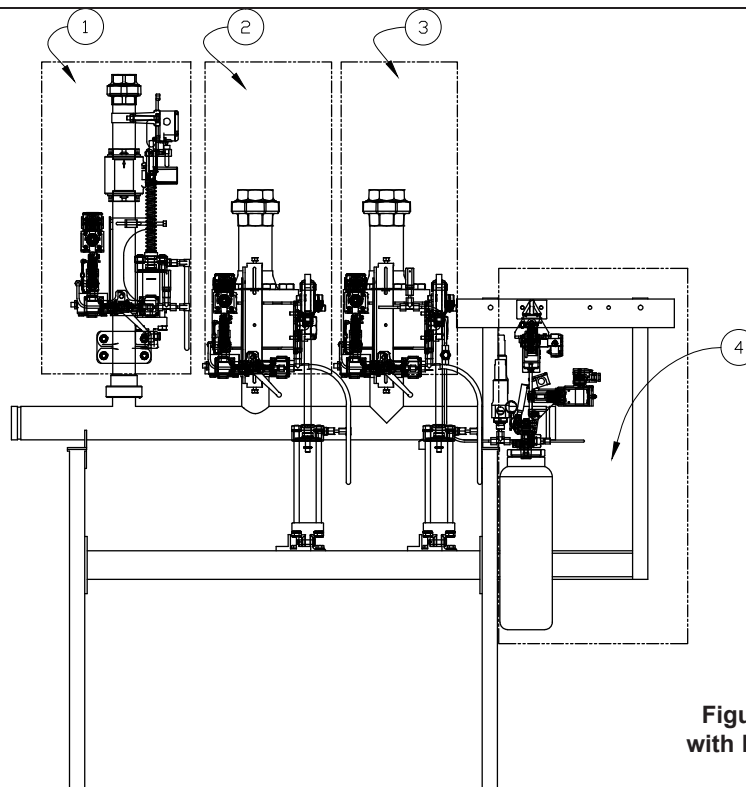
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**Figure 1: Two Out Manifold with
Pneumatic Release Device**



**Figure 2: Three Out Manifold
with Pneumatic Release Device**



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TABLE 1: 2" MANIFOLD, 2 OUT

Base No.	Item No.	Valve Suffix	Valve Description
19372	1	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
	2	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
	3	-P	Pneumatic Release Device

TABLE 2: 2" MANIFOLD, 3 OUT

Base No.	Item No.	Valve Suffix	Valve Description
19373	1	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
	2	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
	3	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
	4	-P	Pneumatic Release Device



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TABLE 3: 2-1/2" MANIFOLD, 2 OUT

Base No.	Item No.	Valve Suffix	Valve Description
19374	1	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
		D	2-1/2" (65 mm) Multi-Zone Valve
	2	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
		D	2-1/2" (65 mm) Multi-Zone Valve
	3	-P	Pneumatic Release Device

TABLE 4: 2-1/2" MANIFOLD, 3 OUT

Base No.	Item No.	Valve Suffix	Valve Description
19375	1	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
		D	2-1/2" (65 mm) Multi-Zone Valve
	2	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
		D	2-1/2" (65 mm) Multi-Zone Valve
	3	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
		D	2-1/2" (65 mm) Multi-Zone Valve
	4	-P	Pneumatic Release Device



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TABLE 5: 3" MANIFOLD, 2 OUT

Base No.	Item No.	Valve Suffix	Valve Description
19376	1	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
		D	2-1/2" (65 mm) Multi-Zone Valve
		E	3" (80 mm) Multi-Zone Valve
	2	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
		D	2-1/2" (65 mm) Multi-Zone Valve
		E	3" (80 mm) Multi-Zone Valve
	3	-P	Pneumatic Release Device

TABLE 6: 3" MANIFOLD, 3 OUT

Base No.	Item No.	Valve Suffix	Valve Description
19377	1	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
		D	2-1/2" (65 mm) Multi-Zone Valve
		E	3" (80 mm) Multi-Zone Valve
	2	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
		D	2-1/2" (65 mm) Multi-Zone Valve
		E	3" (80 mm) Multi-Zone Valve
	3	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
		D	2-1/2" (65 mm) Multi-Zone Valve
		E	3" (80 mm) Multi-Zone Valve
	4	-P	Pneumatic Release Device



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TABLE 7: 4" MANIFOLD, 2 OUT

Base No.	Item No.	Valve Suffix	Valve Description
19378	1	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
		D	2-1/2" (65 mm) Multi-Zone Valve
		E	3" (80 mm) Multi-Zone Valve
		F	4" (100 mm) Multi-Zone Valve
	2	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
		D	2-1/2" (65 mm) Multi-Zone Valve
		E	3" (80 mm) Multi-Zone Valve
		F	4" (100 mm) Multi-Zone Valve
	3	-P	Pneumatic Release Device

TABLE 8: 4" MANIFOLD, 3 OUT

Base No.	Item No.	Valve Suffix	Valve Description
19379	1	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
		D	2-1/2" (65 mm) Multi-Zone Valve
		E	3" (80 mm) Multi-Zone Valve
		F	4" (100 mm) Multi-Zone Valve
	2	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
		D	2-1/2" (65 mm) Multi-Zone Valve
		E	3" (80 mm) Multi-Zone Valve
		F	4" (100 mm) Multi-Zone Valve
	3	A	1" (25 mm) Multi-Zone Valve
		B	1-1/2" (40 mm) Multi-Zone Valve
		C	2" (50 mm) Multi-Zone Valve
		D	2-1/2" (65 mm) Multi-Zone Valve
		E	3" (80 mm) Multi-Zone Valve
		F	4" (100 mm) Multi-Zone Valve
	4	-P	Pneumatic Release Device