



**TECHNICAL DATA**

**CONTACT PRESSURE GAUGE**

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.

VSH200: Installation and Service Manual (Part No. 932167), Design Manual (Part No. 932165), and Operation Manual (Part No. 932169).

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

**1. DESCRIPTION**

The contact pressure gauge is installed in the agent tank valve. The gauge is available in either normally open (NO) or normally closed (NC) contacts. The contacts are activated by the decrease in tank pressure during a system discharge or loss of tank pressure due to a leak. Gauges are available for either 360 psi (25 bar) or 725 psi (50 bar) tanks.

**2. LISTINGS AND APPROVALS**



**UL Listed:** Clean Agent Extinguishing System Unit



**FM Approved:** Clean Agent Fire Extinguishing System

**3. TECHNICAL DATA**

**Specifications**

- Electrical Switching Function Working Temperature:  
See Note 3, Table 1A (VSH200) or Table 2A (VSH1230)
- Product Storage Temperature: -40 °F to +140 °F (-40 °C to +60 °C)
- Measuring Medium Maximum Temperature: +140 °F (+60 °C)
- IP Code: UP65 with Mounted Cable
- Scale: Dual Scale (bar/psi)
- Indicating Range: 0 to pressure range
- Indicating range markings:  
See Table 2A (VSH200) or 2B (VSH1230)  
0 to I: .....Recharge  
I to II: .....Red  
II to III: .....Green  
III to IV: .....Red  
IV to max.: .....Overcharged

**Electrical Data**

- Switching Voltage: 4.5 –24 V DC / VAC
- Switching Current: 5 –100 mA
- Contact Load: Max. 3 W, dry contact
- Conducting Wire: Two-core, 100 cm (39.37")
- Cross-Section of Conducting Wire: 0.14 mm<sup>2</sup> (0.000217 square inch), AWG 26

**Material Standards**

Gauge: Aluminum, White

**Ordering Information**

See Table 1A (VSH200) and 2A (VSH1230)

**Spare Parts:**

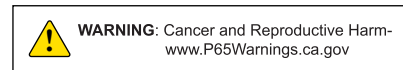
- O-Ring, Part Number: 888023
- O-Ring Support Ring, Part Number 888024



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**VSH1230 CONTACT PRESSURE GAUGE**





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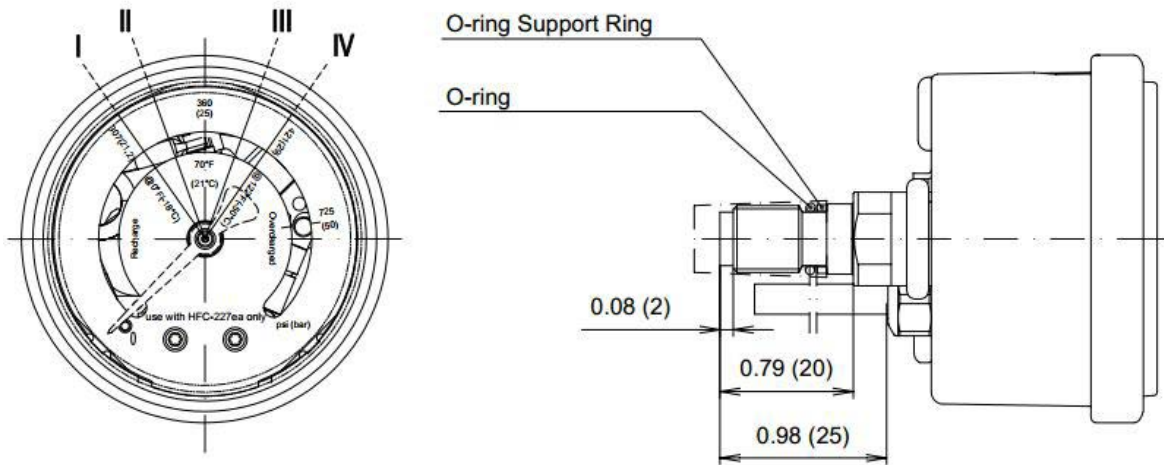
**VSH200 CONTACT PRESSURE GAUGE**

**TABLE 1A: ORDERING INFORMATION**

Nominal Pressure at 70 °F (21 °C) <sup>3</sup>		Valve Under Pressure State <sup>1,2</sup>	Part Number	Pressure Range/ Switching Point		Maximum Pressure		Tolerance (UL / ULC)		Weight	
PSI	BAR			PSI	BAR	PSI	BAR	PSI	BAR	lbs	kg
360	25	Normally Closed (NC)	889311	870 / 324	60 / 22.5	725	50	± 19	± 1.3	0.37	0.17
725	50	Normally Closed (NC)	889313	1450 / 653	100 / 45	1160	80	± 23	± 1.5	0.37	0.17
360	25	Normally Open (NO)	889306	870 / 324	60 / 22.5	725	50	± 19	± 1.3	0.37	0.17
725	50	Normally Open (NO)	889309	1450 / 653	100 / 45	1160	80	± 23	± 1.5	0.37	0.17

**Footnotes**

- 1 (NC): At nominal pressure the contact is opened.
- 2 (NO): At nominal pressure the contact is closed.
- 3 The valve state of the integrated electric pressure switch is designed for the nominal pressure minus 10% at 68 °F (20 °C). Due to the temperature related pressure drop, this value state is also achieved for systems without pressure loss if the ambient temperature falls below 41 °F (5 °C). It is recommended to use the integrated electric pressure switch to monitor the system pressure only at temperatures > 41 °F (5 °C).



**FIGURE 1A: Indicating Range Markings and Gauge Dimensions** {{dimensions are in inch (mm)}}

**TABLE 1B: INDICATING RANGE MARKINGS**

Nominal Pressure at 70 °F (21 °C) <sup>3</sup>		Red Area	Green Area	Red Area	Marking at Nominal Pressure		Marking at I		Marking at IV	
PSI	BAR	I to II	II to III	III to IV	PSI / °F	BAR / °C	PSI / °F	BAR / °C	PSI / °F	BAR / °C
360	25	290-324	324-396	396-493	360   70 °F	25   21 °C	290 @0 °F	20 @-18 °C	493 @122°F	34 @50 °C
725	50	587-653	653-798	798-864	725   70 °F	40   21 °C	587 @0 °F	40 @-18 °C	864 @122 °F	60 @50 °C



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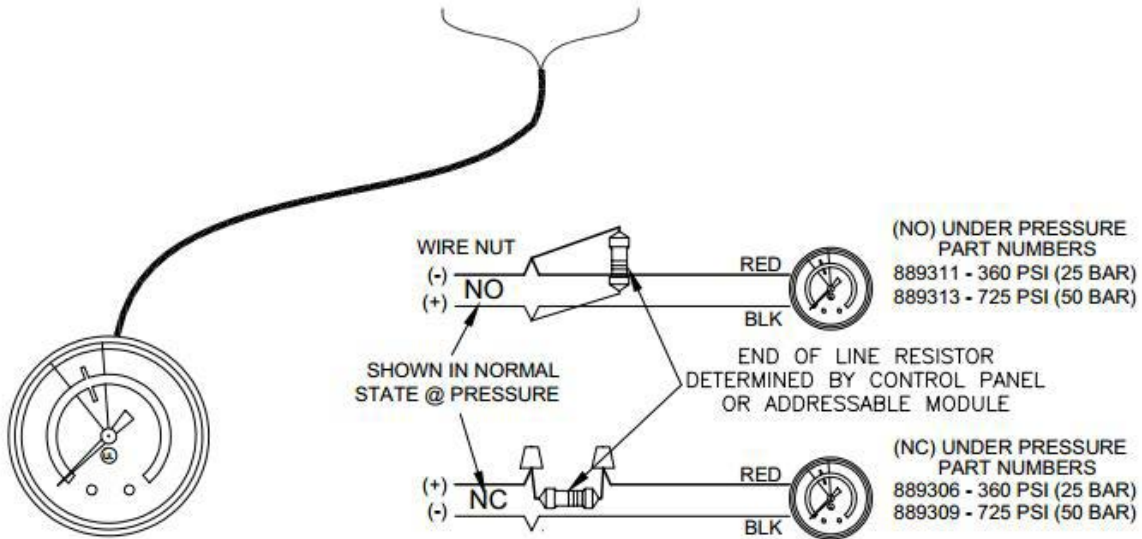
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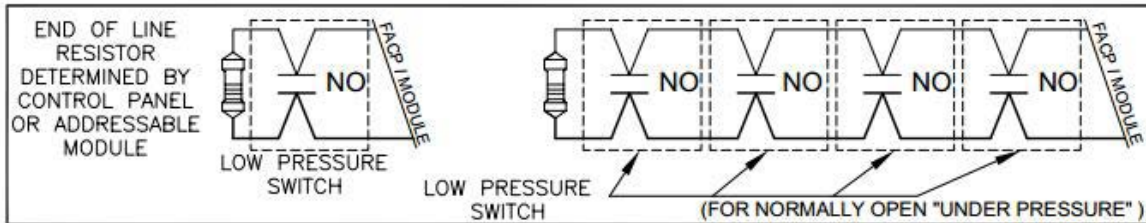
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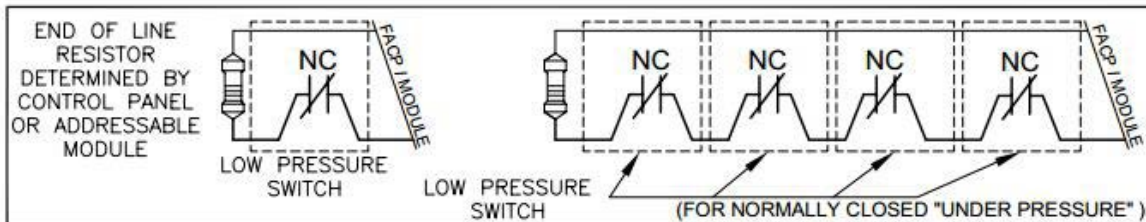
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NORMALLY OPEN (NO\*) IS FOR CONVENTIONAL PANEL. NOT REQUIRED FOR ADDRESSABLE PANEL  
 NORMALLY CLOSED (NC\*) IS FOR ADDRESSABLE PANEL. NOT REQUIRED FOR CONVENTIONAL PANEL  
 \*NO AND NC IS RELATED TO VALVE STATE UNDER PRESSURE



**PANEL OR MODULE TERMINATION FOR NORMALLY OPEN "UNDER PRESSURE"**



**PANEL OR MODULE TERMINATION FOR NORMALLY CLOSED "UNDER PRESSURE"**

**FIGURE 1B: VSH200 Low Pressure Gauge Wiring Diagram**



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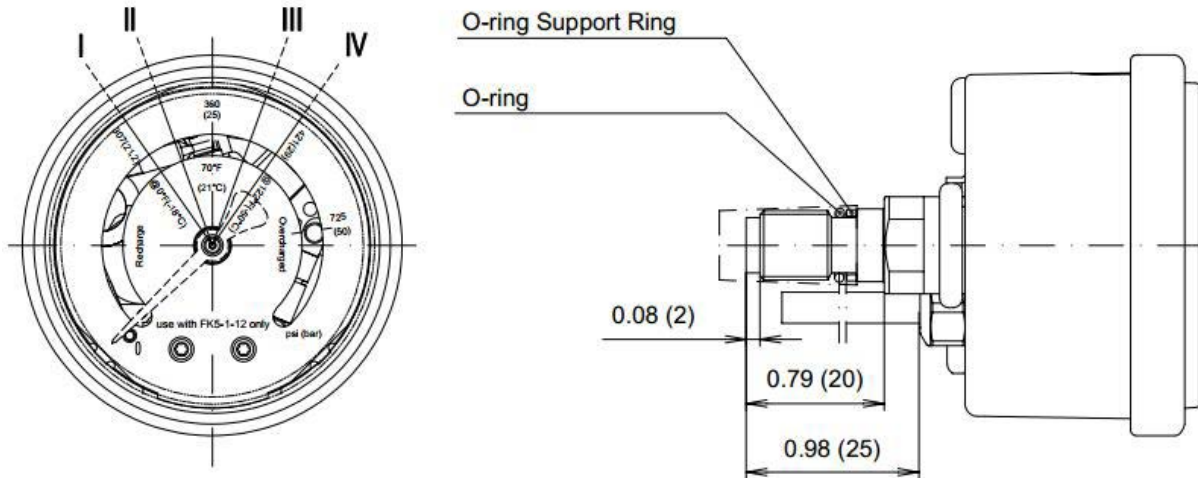
**VSH1230 CONTACT PRESSURE GAUGE**

**TABLE 2A: ORDERING INFORMATION**

Nominal Pressure at 70 °F (21 °C) <sup>3</sup>		Valve Under Pressure State <sup>1,2</sup>	Part Number	Pressure Range/ Switching Point		Maximum Pressure		Tolerance (UL / ULC)		Weight	
PSI	BAR			PSI	BAR	PSI	BAR	PSI	BAR	lbs	kg
360	25	Normally Closed (NC)	889303	870 / 324	60 / 22.5	725	50	± 19	± 1.3	0.37	0.17
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360	25	Normally Open (NO)	889300	870 / 324	60 / 22.5	725	50	± 19	± 1.3	0.37	0.17
725	50	Normally Open (NO)	889302	1450 / 653	100 / 45	1160	80	± 23	± 1.5	0.37	0.17

**Footnotes**

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**FIGURE 2A: Indicating Range Markings and Gauge Dimensions** {(dimensions are in inch (mm))}

**TABLE 2B: INDICATING RANGE MARKINGS**

Nominal Pressure at 70 °F (21 °C) <sup>3</sup>		Red Area	Green Area	Red Area	Marking at Nominal Pressure		Marking at I		Marking at IV	
PSI	BAR	I to II	II to III	III to IV	PSI / °F	BAR / °C	PSI / °F	BAR / °C	PSI / °F	BAR / °C
360	25	307-324	324-396	396-421	360   70 °F	25   21 °C	307 @0 °F	21 @-18 °C	421 @122°F	29 @50 °C
725	50	616-653	653-798	798-833	725   70 °F	50   21 °C	616 @0 °F	42 @-18 °C	833 @122 °F	57 @50 °C



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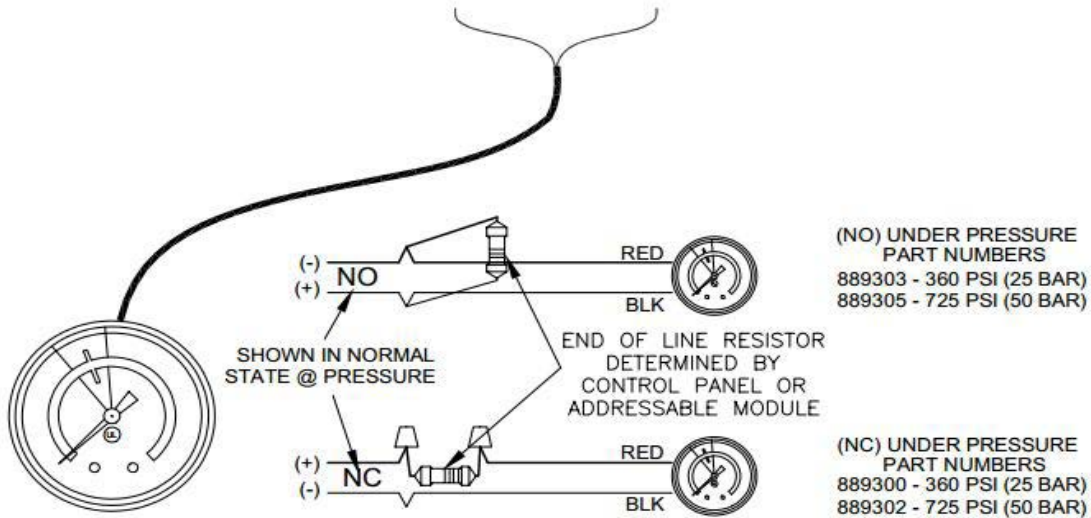
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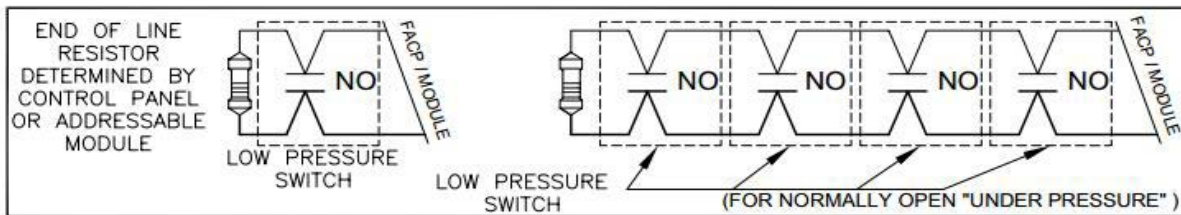
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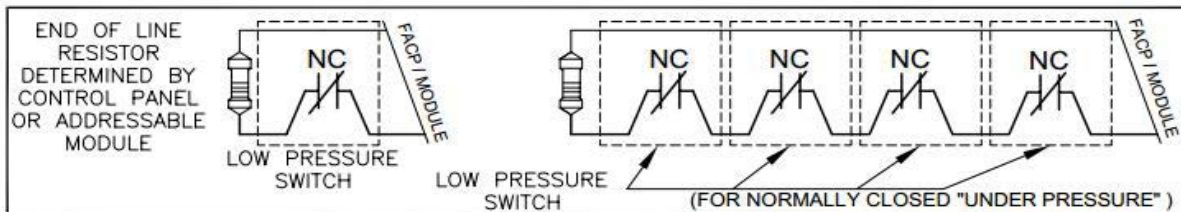
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**PANEL OR MODULE TERMINATION FOR NORMALLY CLOSED "UNDER PRESSURE"**

**FIGURE 2B: VSH1230 Low Pressure Gauge Wiring Diagram**