LPG Freeze Valve

Model AT-1000

FEATURES
- Indicates presence or absence of moisture in LPG
- Designed to meet ASTM D 2713 and JLPGA-S-10T Freeze Valve Method
- Portable device, includes a rugged carrying case
- Rugged stainless steel construction

TYPICAL APPLICATIONS
- LPG commercial custody transfer lines
- Propane Storage Tanks
- Propane Trucks- "Bobtail"
- Propane Trucks- "Transport"
- Rail Tank Cars

FUNCTIONAL DESCRIPTION (continued)

The valve features includes four (4) independent restricted flow passages acting as flow smoothers to maintain a pressure drop which will result in increased expansion of the fluids and increased cooling effect when entering the testing zone. The outlet of the valve has internal threads to assist the operator in determining when the flow has been interrupted or shut off as a result of ice having formed in the aperture of the valve. The instant the LP gas stops flowing over the threads, a frost line rolls over the lip of the valve outlet. The time required for the freezing moisture to block the valve operating is measured. This time is recorded as the freeze time of the sample. Three successive tests in excess of 60 seconds are required by ASTM D2713 to be recorded as a pass.

The valve freeze test method is designed for use outside the laboratory. Therefore, it may be used by comparatively unskilled labor and under existing conditions at commercial terminals with sufficient accuracy to determine if the moisture content of the product meets specifications. The valve also incorporates a filter to exclude foreign particles from the testing zone.

For more information, contact Viatran.

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**SPECIFICATIONS**

- **Size**: 8” long x 1” diameter (203 mm long x 25 mm diameter)
- **Weight**: 1.1 pounds (510 grams)
- **Connection**: 0.880 - 14 NGO left-hand external thread
- **Material of Construction**: stainless steel
- **Operating Pressure**: Less than 100 pounds/in² (7.03 Kg/cm²g) plus vapor pressure of product at test temperature
- **Meets Standards**: ASTM D 2713-13, JLPGA-S-10T

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Valve Application on Tank

Valve Applied to Transfer Line

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Information is accurate to the best of Viatran’s knowledge. We reserve the right to change specifications at any time. Please contact Viatran for specific order inquiries.

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