

THE NEW STANDARD FOR VAPOR PRESSURE OF LPG & NPG

MINIVAP LPG

ASTM D 6897
Full Automation

Excellent Correlation
to the Manual Bomb
Method ASTM D 1267

Highest Accuracy
Better Repeatability &
Reproducibility than
ASTM D 1267

Fast & Easy to Use
Rugged & Portable
Stand Alone Unit

Automatic
Sample Introduction
Only 13 mL Sample

Results in 5 Minutes

Maximum Safety
Less Waste & Pollution





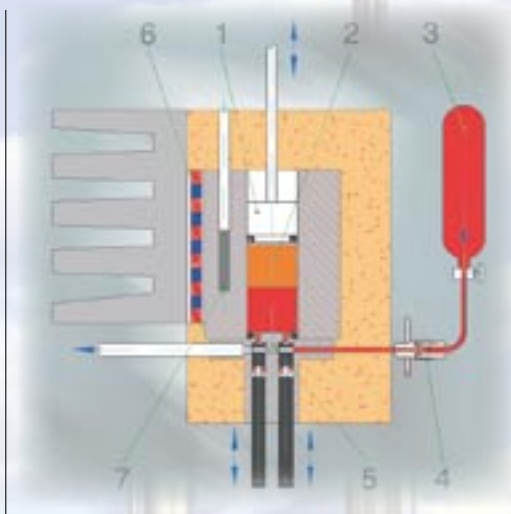
ASTM D 6897 Single Expansion Method

ASTM D 6897 revolutionizes the vapor pressure measurement of Liquefied Petroleum Gas (LPG). It replaces the manual bomb method ASTM D 1267 presenting results with an excellent correlation, but with a highly improved repeatability and reproducibility. MINIVAP LPG allows a fast and fully automated measurement avoiding any operator bias and saving a significant amount of time and money for the users.



Full Automation for Highest Productivity

MINIVAP LPG is a stand-alone unit for the automatic vapor pressure determination of liquefied petroleum products in less than 5 minutes using only 13 mL of sample. It offers a safe and easy operation and reduces environmental pollution. Automatic sample introduction, built-in Peltier temperature regulation and a pre-programmed rinsing cycle eliminate any manual operation or cleaning. The ease of use of the instrument allows for installation and operation without any special training.



Measuring Principle:

The sample is contained in a pressurized sample bomb (3) and is attached using a quick-connect fitting (4). Automatic sample introduction and volume adjustment are performed by a piston with an integrated pressure transducer (1). The measuring chamber (2) with a total volume of 5 mL is automatically rinsed and filled with 3.3 or 3 mL. After closing the valve (5), the volume expansion to 5 mL is obtained by a further piston stroke. The temperature of the measuring cell is controlled with a thermoelectric Peltier element (6) and measured with a platinum RTD sensor (7). After the equilibrium time, the test result is displayed and may be printed. If more than one temperature is programmed the next temperature points are adjusted and measured consecutively.

Applications

Information on the vapor pressures of liquefied petroleum gas products under temperature condition from 37.8 to 70°C (100 to 158°F) is pertinent for the selection of properly designed storage vessels, shipping containers and customer utilization equipment to ensure safe handling of these products. For on-line applications, the MINIVAP ON-LINE process analyzer from Grabner Instruments is the ideal solution for vapor pressure determination of LPG and NPG with a cycle time of only 5 minutes according to the new ASTM D 6897 method (for details, please visit www.grabner-instruments.com).

Technical Data

Temperature range:	5 to 70°C (41 to 158°F)
Pressure range:	2 to 2000.0 kPa 0.3 to 290.00 psi
Power requirements:	100/120/230 V AC 50/60 Hz, 65 W
Field application:	12 V/4A DC (vehicle battery)
W x H x D:	196 x 315 x 175 mm (7.7" x 12.4" x 6.9")
Weight:	8 kg (18 lbs)

Your distributor:

GRABNER INSTRUMENTS™

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