

LIQUID METER COMPANY

FLOWING FROM PIPELINE TO PROCESS

10512 Crosby Cir. Cranesville, PA 16410 • Call 814.756.5602

The LIMECO EZ[®] Nitrogen Loading System is a standalone system designed to maintain a precise pressure range in a closed end plenum system used on pipeline gas loaded surge relief valves. It provides accuracy and reliability not found in a manual or regulator controlled system. The LIMECO EZ[®] can be used as a retrofit to upgrade an existing system or turnkey for a new installation. It can be configured for local operation or remote access. This allows the user to remotely change the relief valve's set point and monitor for alarm conditions.



Features:

- + Superior set point accuracy and repeatability. Standard factory set point range: +/-5PSI.
- + Measures and adjusts in 1/10th PSI increments.
- + Extremely low nitrogen supply consumption.
- + Easy (EZ) to set up and maintain. Once set, it does not require constant adjustment in the field.
- + Set Point can be changed locally using the key pad in the field or remotely using Modbus RTU.
- + Excellent flow range allows it to be used with a wide range of plenum sizes.
- + Eliminates the need to bury plenums.
- + Can be used to improve performance on any nitrogen loaded valve. (Daniel, M&J, Grove)
- + Greatly simplifies DOT testing.
- + Can be used on both liquid pipelines and natural gas pipelines.
- + Can operate multiple valves with the same set point.

Liquid Meter Company Inc. / 10512 Crosby Circle / Cranesville, PA 16410 / USA
Ph: 814-756-5602 / e-mail: valvesandmeters@gmail.com / Fax: 814-756-0546
Date: 7/8/19 REV 02

Patent Pending

Specifications:

- + Accuracy: +/- 0.3% of calibrated span from 1:1 to 40:1 rangedown.
- + Long Term Stability: 0.5% of span for 3 years under normal operating conditions.
- + Standard Nitrogen Recovery Rate: 1.35 SCFM (1.8 LPM).
- + Operating Range: 25 to 2,000 PSI (1.5 to 140 Bar).
- + 3,000PSI (206 Bar) Maximum Working Pressure.
- + Temperature Range: -40 to 140 degrees F (-40 to 65 degrees C).

Options:

- + Supply pressure transmitter for nitrogen supply bottles.
- + Top works assembly for gas loaded relief valve to simplify DOT testing.
- + Insulated plenums for above ground or in-ground service.
- + Aluminum stand for concrete slab mounting.
- + Plenum mounting kit for safely mounting 1-2 LIMECO plenums to the factory aluminum stand.
- + Plenum stand for supporting 3-6 plenums, preassembled from the factory for easy field installation.
- + Mechanical regulator back up loop.

Supply Voltage:

24 VDC Standard. (120 VAC Optional)

Weights and Dimensions:

Actual: 34 in. Wide x 24 in. Tall x 10 in. Deep (86 cm x 60 cm x 25 cm)

Weight: 50 Pounds (22.6 kg.)

Approvals:

Class 1, Division 1, Groups B, C, and D.

CSA/UL approved design available upon request.

Warranty:

18 Months after shipment or 1 year after installation, whichever comes first.

Liquid Meter Company Inc. / 10512 Crosby Circle / Cranesville, PA 16410 / USA
Ph: 814-756-5602 / e-mail: valvesandmeters@gmail.com / Fax: 814-756-0546
Date: 7/8/19 REV 02

Patent Pending