

# NEGATIVE PRESSURE AUTODRAIN

PRODUCT DATA SHEET-102

## Continuous Inline drainage for vacuum applications—for use with Neutronics Process Gas Sampling Systems

### FEATURES

- Reduces maintenance by continuously draining liquids from sampling components
- Prevents ambient air from contaminating sample

### INTRODUCTION

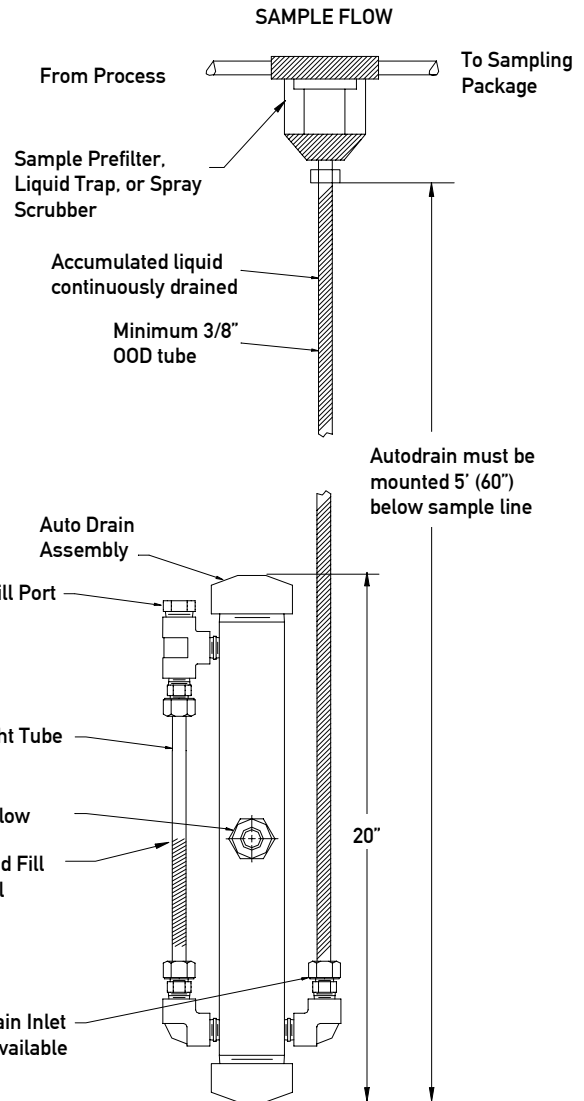
The Neutronics Negative Pressure Automatic Drain is a pre-conditioning component used in addition to a standard Neutronics Sample Conditioning Package to assure analyzer reliability. The Autodrain provides continuous, maintenance-free draining of liquids accumulated in the sample train by sample-conditioning components like the Neutronics Spray Scrubber, Coalescing Prefilter, and Liquid Trap

### OPERATION

The Autodrain is a barometric leg vacuum-lock that allows accumulated liquids to be removed from the sample train without allowing air contamination. Accumulated liquid is held in the vertical cylinder until it reaches the overflow port. From the overflow port, the liquid is piped to a suitable drain, or returned to the process vessel. A sight tube on its side shows the liquid level inside the Autodrain.

### INSTALLATION

Before using, the Autodrain must be filled to the overflow port with water. To prevent accumulated liquid from being drawn into the sample line by the sample vacuum, the Autodrain must be mounted no less than five feet below the point of entry into the sample train. This distance is based on the 55" w.c. vacuum potential created by the Neutronics aspirating sample-pump. The Autodrain can drain up to two liquid sources on a sample train.



## SPECIFICATIONS

MATERIALS	Available in Brass/copper, Stainless Steel, Hastelloy, or Kynar/Teflon
REFERENCE DRAWING	SP-E-0334
INLET/OUTLET	Two (2) individual inlets to single outlet
DRAINAGE METHOD	Single column liquid trap with sight-glass, and overflow port



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