

COALESCING PREFILTER

PRODUCT DATA SHEET-101

Continuous gas sample particulate filtering with coalescing feature for fine mist removal—for use with Neutronics Process Gas Sampling Systems

FEATURES

- Removes ultra-fine particulates
- Removes and drains entrained mists
- Available in corrosion resistant materials (Kynar/Hastelloy or Stainless Steel)

INTRODUCTION

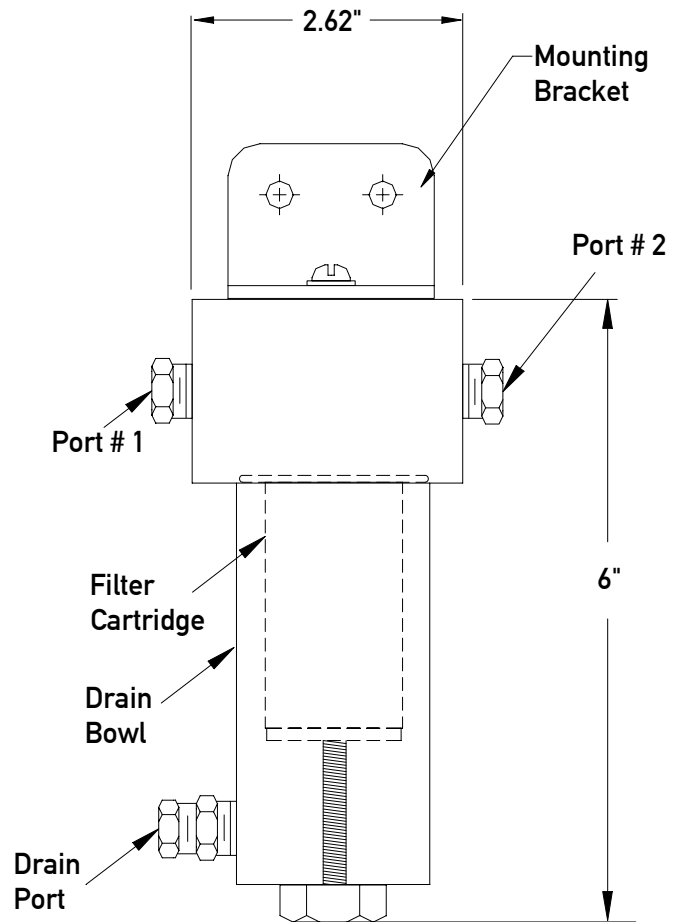
The Neutronics Coalescing Sample Prefilter is a pre-conditioning component used in addition to a standard Neutronics Sample Conditioning Package to assure analyzer reliability. Large amounts of particulate matter and entrained mists from wet applications will overload typical in-line filters, causing sample flow loss, and high maintenance. The Neutronics Coalescing Sample Prefilter provides the required particulate and mist removal in harsh process applications, substantially reducing maintenance and increasing system reliability.

COALESCING ACTION

The Neutronics Coalescing Sample Prefilter consists of a special cartridge filter element, and a heavy-duty drain bowl for liquid removal. Trapped liquidsglom together as sample gas passes through the filter element. As formed droplets become large enough, gravity forces them to drip into the drain bowl, and out of the sample stream.

INSTALLATION

The Liquid Trap must be vertically mounted at a low point in the sample line, between the sampled process and the Neutronics Sample Conditioning Package. A drainage method is also required. For *positive pressure applications*, a Neutronics drip-leg, and restrictor valve may be used on the drain port to assure sufficient backpressure for sample-flow. For *vacuum applications*, a Neutronics Negative Pressure Auto-Drain (ref. PDS-102) may be used on the drain port to provide maintenance-free, continuous drainage, without allowing ambient air to contaminate the sample stream.



SPECIFICATIONS

MATERIALS	Available in , Stainless Steel, Hastelloy, or Kynar/Teflon
REFERENCE DRAWING	SP-E-0765
FILTER ELEMENT	3.5" DX grade disposable cartridge
REMOVAL RATING	93% efficiency at nominal 0.1m



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