

BLOWBACK PREFILTER

PRODUCT DATA SHEET-105

Continuous gas sample filtering with self-cleaning feature, for high dust applications—for use with Neutronics Process Gas Sampling Systems

FEATURES

- Removes Large Quantities of Particulates
- Reduces or Eliminates Filter Maintenance
- Available in corrosion resistant materials (Kynar/Hastelloy or Stainless Steel)

INTRODUCTION

The Neutronics Blow Back Filter is a pre-conditioning component used in addition to a standard Neutronics Sample Conditioning Package to assure analyzer reliability. Large amounts of particulate matter will overload typical in-line filters. The Neutronics Blow Back Filter provides the required particulate filtration with automatic filter element cleaning, substantially reducing maintenance and increasing system reliability.

OPERATION

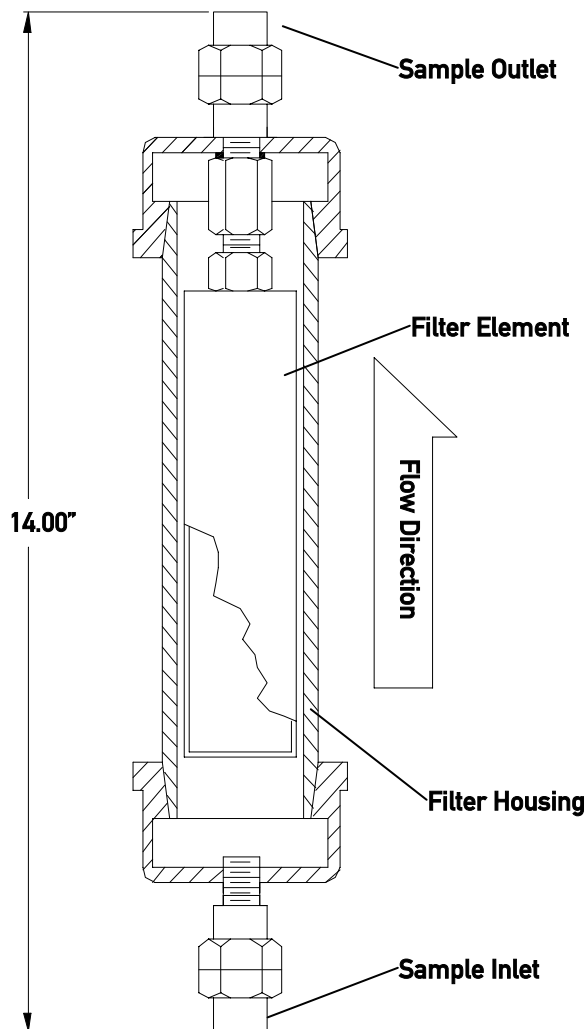
The Blow Back Filter consists of two components: a Control Solenoid Valve and a Filter Housing.

Sampling Mode: During the Sampling mode, the sample gas from the measured process passes through the filter element and through the solenoid valve on its way to the Sample Conditioning Package. Particulate matter remains on the outside of the filter element to form a cake.

Blow Back Mode: During the Blow Back mode, the flow through the filter is reversed by energizing the solenoid valve allowing nitrogen to dislodge the filter cake and return it to the process.

INSTALLATION

The Filter must be mounted vertically directly on top of the process. The best results will be obtained by removing the bottom end cap and attaching the filter directly to the process vessel via the 2" NPT threaded housing.



SPECIFICATIONS

MATERIALS	Available in , Stainless Steel, or Kynar/Hastelloy C
REFERENCE DRAWING	SP-E-0320
MIN/MAX DIFFERENTIAL PRESSURE	40 psig/100psig
REMOVAL RATING	Nominal 0.4m • Absolute 1m
ELEMENT AREA	0.18 Sq. Ft.



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