

The Problem

In industries such as breweries, dairies, soft drink, food, wine and pharmaceuticals, a wide range of easily spoiled liquids are temporarily held in tanks during processing, storage, collection, mixing and/or blending procedures.

In order to pump or transfer these liquids in and out of these tanks, it is necessary for the air above the liquid to be able to escape or increase in volume. The container must be able to "breathe".

Inoculants are manufactured under constant air flow conditions in the pharmaceutical industry whereby it is vital that microorganisms are neither introduced into the product, nor permitted to escape to atmosphere.

The Solution

Microdyne Vent Filters "VF" reliably sterilize both the incoming and outgoing air at atmospheric pressure. The minimal differential pressure characteristics of this filter are very important as it helps to protect the pump and container from both imploding as well as exploding or bulging. The Vent Filters "VF" can be steam sterilized.

Application

For non-pressurized, sterile venting of containers, storage and conveyor systems as well as processes operating at atmospheric pressure. The same as above, but principally for the retention of atmospheric contaminants such as fine dust particles which are suspended in the air in aerosol form.

Materials

All Microdyne Vent Filters "VF" are manufactured with stainless steel inner and outer support sleeves, three-dimensional layered 100% binder-free submicrofiber web with 90% void volume and our two-stage depth filtration principle.

Performance Data

Efficiency:

100% sterile, 99.99998% relative to particle size of .01 micron.

Flow Volumes:

8 to 1,120 scfm @ 14.7 psi (1 atmosphere) as standard flow.

Operating Pressure:

14.7 psi (1 Bar) as standard pressure.

Differential Pressure:

1.25 psi.

Pressure Rating:

145 psi (10 Bar).

Operating Temperature:

392° F (200° C).

Pipe Connection:

1/2" NPT to 8" Flange.

IMPORTANT: The filter elements are chemically, biochemically and biologically neutral and inert and resistant against chemicals and high temperatures. They can be steam or Hydrogen Peroxide (H₂O₂) Sterilized. Should special applications demand the use of other filter elements, the unified Microdyne modular construction system permits optimum adaptability for filtration ratings or functions to suit particular requirements.

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Technical Data — Non-Flanged Housings

Size	Nominal flow (SCFM)	NPT Size Connections	Elements Per Filter
3	8	1/2"	1
11	24	1"	1
12	36	1 1/2"	1
13	58	1 1/2"	1
14	78	2"	1
17	112	2"	1

Technical Data — Flanged Housings

Size	Nominal flow (SCFM)	NPT Size Connections	Elements Per Filter
14	78	2"	1
17	112	2"	1
20	224	3"	2
30	336	4"	3
40	448	6"	4
60	672	6"	6
80	896	8"	8
100	1120	8"	10

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