



ENCLOSURE PROTECTION VENTS FOR MEDICAL APPLICATIONS

Integrated Venting Solutions

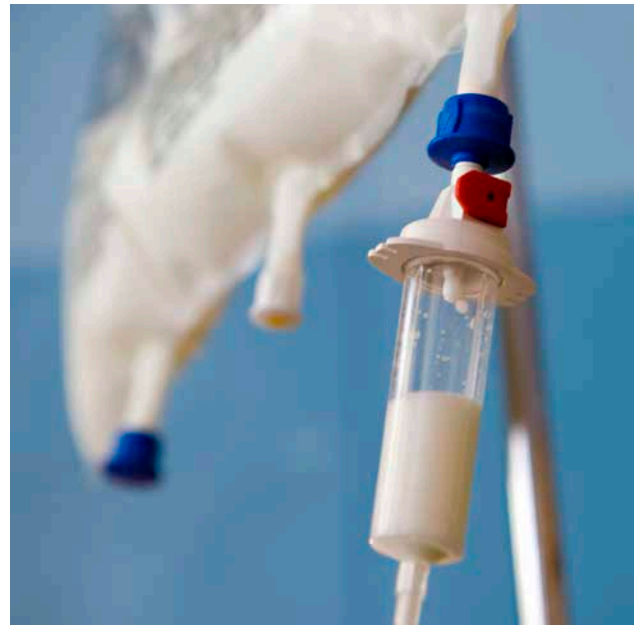
Donaldson enclosure protection vents are made with our proprietary Tetratex® expanded PTFE membranes for a wide variety of applications in the healthcare industry. Donaldson offers its design and filtration material expertise to provide customers with the most effective venting solution for your needs.

TYPICAL APPLICATIONS

- Medical device venting
- Drainage bags
- IV administration sets
- Ostomy bags
- Urine bags
- Packaging
- IV spike vents

FEATURES & BENEFITS

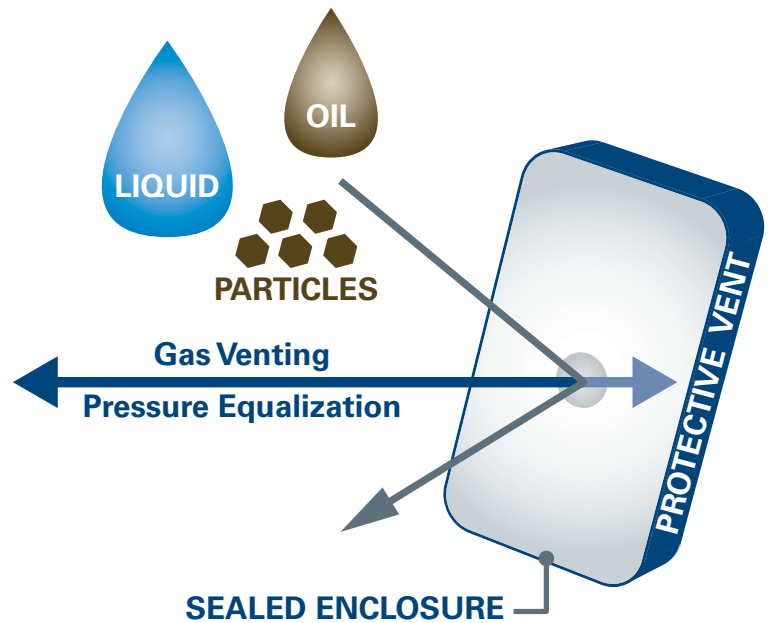
- Hydrophobic - gas permeable water barrier with IP ratings up to IP44 to IP67/IP68
- Oleophobic option - provides oil repellency rating up to 8 while allowing air flow
- High particulate removal rate - up to 99.999% efficiency
- High bacterial removal rate - up to 99.999% efficiency on 0.1 micron particles
- High air flow rates - to ensure adequate venting and pressure equalization
- Toxicity tested to USP 23, Class VI - to ensure biocompatibility
- Clean, non-shedding, minimal extractables - to maintain a clean environment
- Chemically inert - to ensure vent reliability
- Thermally stable - to accommodate a wide variety of environments
- Tetratex® - White or black ePTFE membrane vents available



PRODUCT DESIGN OPTIONS

Donaldson's technical experts can custom-design a vent that results in the most effective venting solution for your needs, utilizing:

- Material options including:
 - Donaldson's Tetratex® ePTFE membrane in a wide range of pore sizes, air flows, water and oil repellency, and particulate removal efficiencies, in white or black
 - Polypropylene
 - Polyethylene
 - Polyester
 - Nylon
 - Others as requested
- Ultra-Web® O.C. (odor control) adsorbents for removing:
 - Odors
 - Water vapor
 - Volatile organics
 - Acid gases
 - Base gases
- Integration options including:
 - Pressure-sensitive adhesive
 - Injection over-molding
 - Heat welding
 - Sonic welding



Donaldson is IATF 16949:2016 certified and our focus is on high quality manufacturing, responsive customer service, and tailored solutions that can be easily integrated into our customer's device or application. Our unique, proprietary membrane and oleophobic treatment processes allow us to select the best types of materials to meet your application requirements.

Donaldson Company is a leading global provider of filtration products, with sales and manufacturing of venting products in the U.S., Europe and Asia. Let Donaldson be your partner in problem-solving.

Important Notice

Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, product specifications, availability and data are subject to change without notice, and may vary by region or country.



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