



Protective Vents

Installation and Handling Guidelines

Screw-In Vents Part Series: PMF100318, PMF100319, PMF100320, PMF100321, PMF100391, PMF100392, PMF100519, PMF100520, PMF100444

GORE® Protective Vents are designed to protect in the harshest environments while quickly and effectively equalizing the pressure in sealed enclosures.

To maximize the performance of the vent for the lifetime of your product, please follow the handling and installation recommendations provided.

HANDLING GUIDELINES

- Avoid direct contact with GORE™ Membrane.
- Do not remove vent cap.
- Do not over-tighten.
- It is recommended to use the following torque wrench sizes for installation:

Plastic molded parts	16 mm socket or wrench
Metal vent	18 mm wrench
Recommended force	0.6 – 0.8 Nm (0.44 – 0.59 lbf-ft)

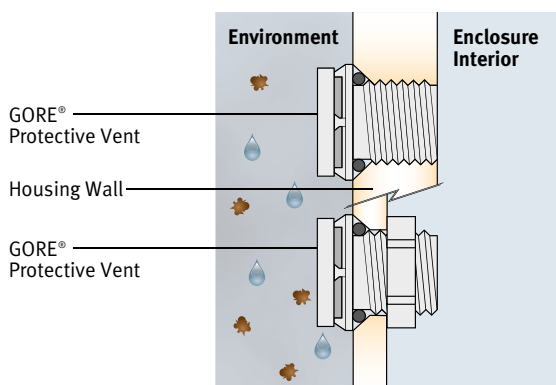
INSTALLATION GUIDELINES

1. Preparation

Make sure mounting surface is clean and free of oils, particles and other contaminants. Isopropyl alcohol can be used to clean the mounting surface if needed. Ensure the surface is dry prior to installation.

2. Positioning

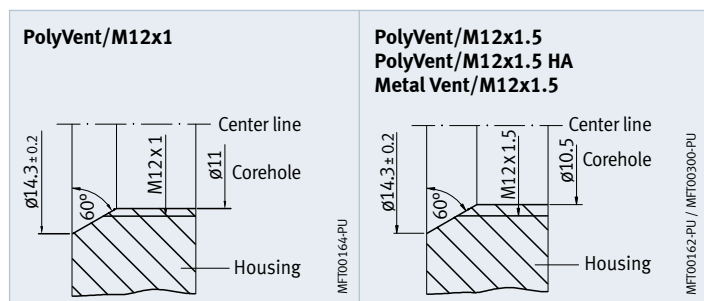
For best performance, vents should be mounted on a flat, vertical surface where liquids or other contaminants will not pool. (See diagram below for mounting recommendation). Gore molded parts are designed for mounting to the exterior housing wall.



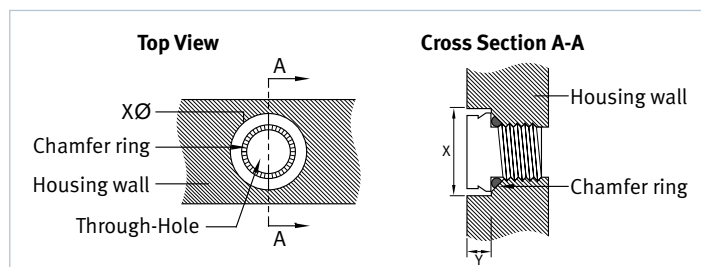
The Gore proprietary membrane is constructed of ePTFE and allows for the free passage of gases and vapors while at the same time preventing liquid and particulates from entering the housing.

Recommended Housing Geometry

All dimensions are in mm



To prevent unintentional damage, the vent may be recessed into the surface of the housing, as shown below:



Other means of protection are possible and may also be used.

Recommended Recess Dimensions by Part

Part Description	PolyVent M12x1	PolyVent M12x1.5/ M12x1.5 HA	Metal Vent/ M12x1.5
Part Number	PMF100318 PMF100319	PMF100320 PMF100321 PMF100391 PMF100392 PMF100519 PMF100520	PMF100444
X dimension	22 mm (0.866")	22 mm (0.866")	24 mm (0.945")
Y dimension	9 mm (0.354")	8 mm (0.315")	15 mm (0.590")

3. Installation

To insert into the housing, make sure that the threads have proper engagement and screw into the housing. If using a socket to tighten vent to surface, ensure socket is fully engaged with the vent housing before tightening.

4. Final Inspection

Look over the part to ensure that the vent is properly seated.



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INSTALLATION SUMMARY

Part Description	PolyVent M12x1	PolyVent M12x1.5/ M12x1.5 HA	Metal Vent M12x1.5*
Part Number	PMF100318 PMF100319	PMF100320 PMF100321 PMF100391 PMF100392 PMF100519 PMF100520	PMF100444

Through Hole (Bulkhead Mounting) Installation

Through Hole (± 0.2 mm)	NA	12.2 mm (0.472")	12.2 mm (0.472")
Counter Nut Part Number	NA	M10510-009	M10510-008

Chamfer Specifications for O-Ring Seal

Angle	60 degrees
OD for Wall Thickness >3 mm	14.3 mm (0.562")
OD for Wall Thickness <3 mm	13.8 mm (0.543")
Torque Specification	0.6 – 0.8 Nm (0.44 – 0.59 lbf-ft)

Other Useful Information

Thread Angle	60 degrees
Major OD	12.0 mm (0.472")

* **Note:** If using the Metal Vent PMF100444 at temperatures below -20°C, mechanical protection for the vent is recommended (e.g. protective ring).

STORAGE RECOMMENDATIONS

Store in the original packaging in a clean and dry environment.

CONTACT US

For additional assistance, please contact a Gore representative.

Australia	61.2.9473.6800	Mexico	52.81.8288.1281
Benelux	49.89.4612.2211	Scandinavia	46.31.706.7800
China	86.21.5172.8299	Singapore	65.6733.2882
France	33.1.5695.6565	South America	55.11.5502.7800
Germany	49.89.4612.2211	Spain	34.93.480.6900
India	91.22.6768.7000	Taiwan	886.2.2173.7799
Italy	39.045.6209.240	United Kingdom	44.1506.460123
Japan	81.3.6746.2572	USA	1.410.392.4440
Korea	82.2.393.3411		

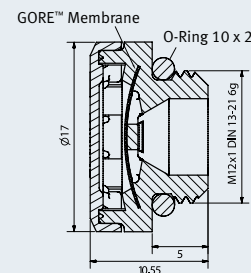
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CROSS SECTION All dimensions are in mm unless otherwise specified

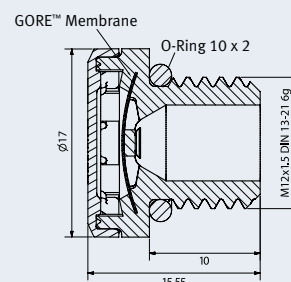
PolyVent/M12x1



Part numbers:
PMF100318
PMF100319

MFT00395-PU

PolyVent/M12x1.5 PolyVent/M12x1.5 HA



Part numbers:
PMF100320
PMF100321
PMF100391
PMF100392
PMF100519
PMF100520

MFT00383-PU

Metal Vent/M12x1.5

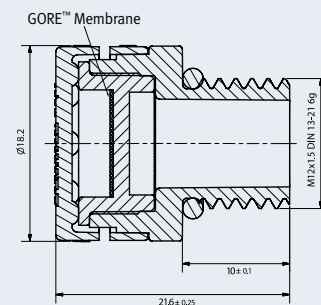
According to Council Directive 94/9/EC ATEX (95)

- ⊕ I M2 Ex e I
- ⊕ II 2G Ex e II
- ⊕ II 1D

Certificate available upon request

Certificate number:
IBExU05ATEX1132 U

Part number:
PMF100444



MFT00300-PU

Tolerances: DIN 16901/130 unless otherwise specified

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