GORE® Protective Vents
For Gearboxes

HIGH PERFORMANCE AND DURABLE PROTECTION IN A COMPACT DESIGN

Venting and ingress protection for electrified and traditional gearbox components

Product Information

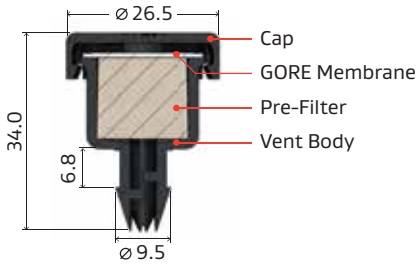
Order number	
Product name	Protective Vent for Gearboxes
Part number	PMF100570

Product performance characteristics	
Minimum airflow (per part)	200 ml/min @ 12 mbar
Water Entry Pressure (assembly)	> 345 mbar (> 5.0 psi) for 60 seconds
Ingress Protection (IP)	IP66, IP68, IP69K*
Operating temperatures	–40 °C to +125 °C
Membrane characteristic	Hydrophobic and oleophobic

Materials of construction	
Cap material	PA6.6 Impact modified
Body material	PA6.6 – GF33
Membrane type	GORE Membrane oleophobic ePTFE
Pre-filter type	Non-woven textile

Vent design and dimensions

Units are in mm



*IPX9K Test Parameters: Pressure = 80 bar, Distance = 150 mm, Temp = 75 °C

Single Solution — Multiple Benefits

- **Improve component reliability**
  Unlike other methods, our venting performance can enhance component reliability. GORE® Protective Vents for Gearboxes (PMF100570) has an integrated membrane that effectively blocks contaminants — like water, dust and dirt — that can degrade the performance of oilcooled traditional and e-motors and other e-drivetrain components as well as gearboxes. The integrated pre-filter protects the membrane from internal oil aerosol that would quickly degrade a standard membrane vent.
- **Preserve seal integrity**
  At the heart of these vents is our breathable GORE Membrane: It equalizes pressures under both normal and extreme operating conditions, to avert stress on seals.

Together, improving life

Sealing Devices Inc.

GORE

Typical Applications

Traditional components:

- Transfer Case
- Power Transfer Unit
- Solid Beam
- Rear/Front Drive Module

E-Drivetrain:

- e-Axles
- Oil-Cooled e-Motor

Vent Positioning and Installation

These rugged tube-mount vents are compact and easy to install. To ensure successful integration of these vents, several design considerations must be addressed. Contact your local Gore representative for guidance and additional design details.

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GORE® Protective Vent(s) are manufactured under the generic industrial ISO 9001 quality system. No other certifications can be provided by Gore for this GORE® Protective Vent. All technical information given is based on Gore's previous experiences and/or test results. Gore gives this information to the best of its knowledge, but assumes no legal responsibility. Customers are asked to check the suitability and usability in the specific application, since the performance of the product can only be judged when all necessary operating data are available. The above information is subject to change and is not to be used for specification purposes. Gore's terms and conditions of sale apply to the sale of the products by Gore.

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GORE® Protective Vents

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