



# 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

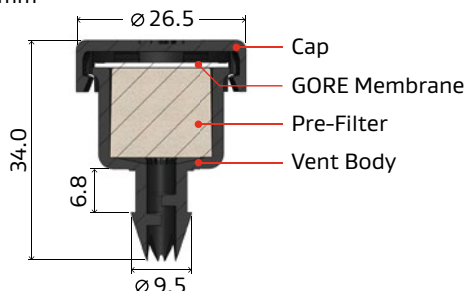
Minimum airflow (per part)	200 ml/min @ 12 mbar
Water Entry Pressure (assembly)	> 345 mbar (> 5.0 psi) for 60 seconds
Ingress Protection (IP)	IP66, IP68, IP69K*
Operating temperatures	-40 °C to +125 °C
Membrane characteristic	Hydrophobic and oleophobic

### 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



## 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.

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

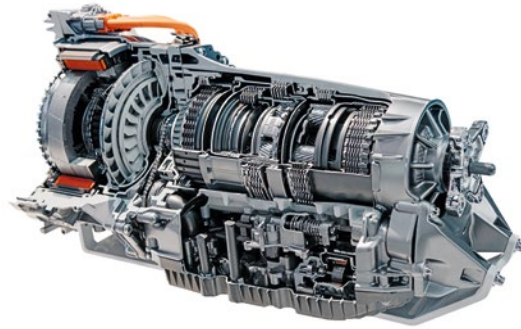
## Typical Applications

### 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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