Automotive Vents

For Fluid Reservoir: Urea/SCR

SERIES: AVS 90, 92, 93, 94, 95

Increased Reservoir Reliability with Urea-Resistant Venting Solution

Description

- White circular cut part-vent for welding installation
- 100 % ePTFE membrane construction without backing material
- Membrane type: AM1XX

Physical Properties

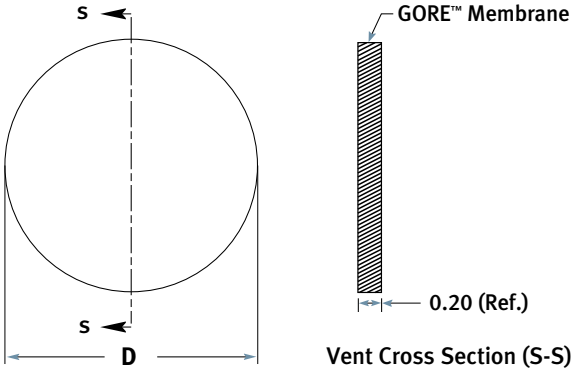
Membrane Characteristics ..... Hydrophobic and oleophobic
Operating Temperature ..... -40 °C to 160 °C
Liquid Entry Pressure ..... › 600 mbar (› 8.7 psi) for 30 sec (not assembled)
Typical Airflow ..... 10.3 l/h/cm² @ 70 mbar (1 psi)

Typical Applications

Urea Reservoirs for Selective Catalytic Reduction System

Installation – Welding

GORE® Automotive Vents can be easily integrated into most conventional plastic housings (e.g., POM or HDPE) with standard ultrasonic or thermal welding equipment. Please contact a Gore representative to discuss your unique requirements and needs.



Vent Cross Section (S-S)

Sample Series	Production Series	Outside Diameter (D)
AVS 90	VE2071	28 mm
AVS 92	VE2073	32 mm
AVS 93	VE2074	26 mm
AVS 94	VE2076	30 mm
AVS 95	VE2080	38.5 mm

Realise the Benefits of GORE® Automotive Vents:

- **Improved reservoir performance** with equalized pressure that reduces stress on seals
- **Longer product life** with highly stable membrane that is not damaged from direct urea exposure
- **Added durability** due to its unique membrane that provides a long-lasting barrier against environmental contaminants
- **Enhanced design flexibility** because of vent's low profile construction
- **Shorter time to market** with increased manufacturing efficiency from ultrasonic or thermal welding
- **Backed by Gore's technical expertise and global support team**

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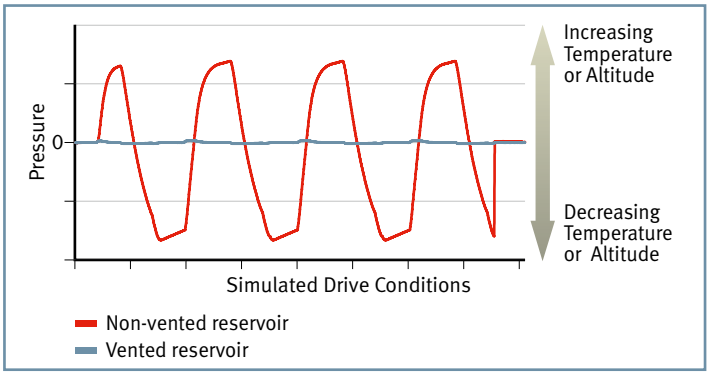
Long-Lasting Protection for Superior Performance with GORE® Automotive Vents

Fluid reservoirs experience pressure differentials that result from internal temperature changes when the vehicle is operating, external temperature changes during sudden weather shifts, or altitude changes during uphill/downhill driving. These differentials cause the reservoir walls and seals to expand and contract, which increases stress on the reservoir. Over time, this stress causes the reservoir components to fail, allowing contaminants to enter and compromise the integrity and safety of the reservoir.

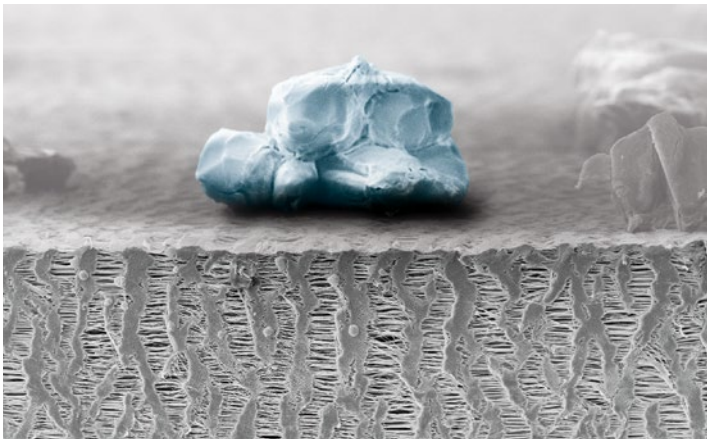
GORE® Automotive Vents equalize pressure by enabling air to pass through the ePTFE membrane.



Comparison of the pressure inside a vented and non-vented reservoir.

Breathable vents are often used to equalize pressure in fluid reservoirs. However, urea solutions have a unique characteristic that causes it to crystallize. These crystals adhere to venting membranes, immediately compromising their structural integrity and in many cases destroying the membrane completely. As a result, the vent's airflow is blocked, so pressure differentials can build in the reservoir and cause seals to fail. In addition, the vent can no longer provide a protective barrier, which enables contaminants to enter and fluids to leak out.

GORE® Automotive Vents provide continuous airflow and pressure equalization because extended exposure to urea crystals does not destroy the unique GORE™ membrane.



Unlike most breathable membranes, the ePTFE membrane of GORE® Automotive Vents does not erode from exposure to urea crystals.

Please note that product values are subject to change. Please contact a Gore associate today for the most up to date information and for assistance determining the best product for your specific application.

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