

OXYSEAL® PRESSURE COMPENSATION UNITS

Plug-in venting solution for housings with inverted cylindrical openings



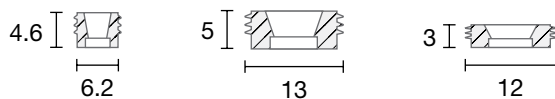
OxySeal® pressure compensation units with hydrophobic membranes are used for ventilation purposes where water needs to be reliably retained, and a gas exchange or pressure compensation is needed at the same time.

OxySeal pressure compensation units are a plug-in solution for housings having inverted cylindrical openings. Each unit consists of a hydrophobic track-etched membrane that has been injection-molded with a thermoplastic elastomer seal, which keeps the unit in the opening without any additional anchor or fastener. OxySeal units are customizable according to the specific requirements of the customer, including the selection of the dimensions, membrane properties, and the form of the pressure compensation elements.

Key Benefits

- Single unit combining membrane and sealing ring
- Simple plug-in assembly
- Suitable for automation
- 100% free of PFOA: Compliant with (EC) 1907/2006 REACH / Regulation (EU) 2019/1021 POP
- 100% visual control if requested

Standard Product Sizes (mm)



Standard Sizes

Outer dia. Ø [mm]	6.2	13	12
Height [mm]	4.6	5	3

Note: Other dimensions are available on request

Material Options

Sealing body: Thermoplastic elastomer

Membrane: PET with hydrophobic coating (with or without lamination)

Available Options

Temperature range (TPE high temperature)	- 40 + 150° C
Temperature range (TPE standard temperature)	- 40 + 120° C
Hydrophobic/ Oleophobic treatment	Grade up to 7.5; AATCC TM 118
- Salt spray resistance test ²	According to IEC 60068-2-52, based on validation by the customer
- Temperature resistance test ¹	In accordance with ISO 16750-4
- Ice water shock test ²	In accordance with ISO 16750-4
- Climate resistance test ¹	In accordance with ISO 16750-4
- Chemical resistance test ¹	According LV124/ ISO 16750-5
- IP Protection ¹	IP 66/ 67, according to DIN 40050

¹ Testing in progress

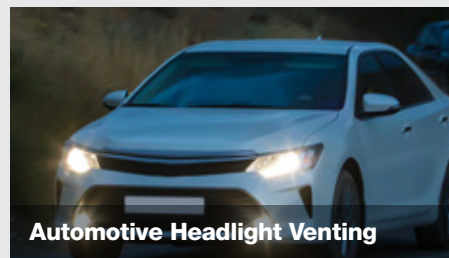
² Based on customer validation



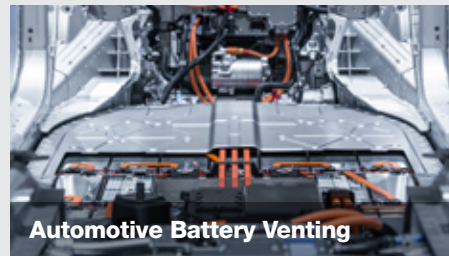
Membrane Technologies Available

- Unique-Mem® track-etched membrane technology
- RoTrac® track-etched membrane technology
- Fiber-based membrane technology

Related Applications



Automotive Headlight Venting



Automotive Battery Venting



Healthcare Venting



Industrial Venting