

# OXYSEAL® PRESSURE COMPENSATION UNITS

Plug-in venting solution for housings with inverted cylindrical openings



OxySeal® pressure compensation vents are designed as a plug & play solution for easy integration into existing product assemblies.

Regardless of the presence of liquid, dust, or dirt, the electronic compartment is always protected from any environmental impacts. In addition, pressure equalization and condensation are appropriately managed.

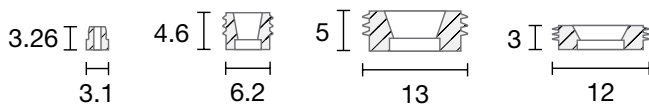
Our molded plugs are equipped with hydrophobic or oleophobic membrane properties, fitted with a thermoplastic elastomer seal which does not require an additional anchor or fastener for a tight fit. In addition to our standard portfolio, Oxyseal venting plugs can also be fully customized by dimension, shape, molding material, or membrane properties. It is our mission to develop a perfect fit venting plug solution that addresses your needs

Please contact our team of track-etched membrane experts today, and let us get started on a solution specific to your application.

## Key Benefits

- 100% Free of PFOA: Compliant with (EC) 1907/2006 REACH / Regulation (EU) 2019/1021 POP
- Single unit combining membrane and sealing ring
- Simple plug-in assembly
- Suitable for automated assembly
- 100% visual inspection and traceability
- Fully Customizable

## Standard Product Sizes (mm)



### Standard Sizes

|                   |      |     |    |    |
|-------------------|------|-----|----|----|
| Outer dia. Ø [mm] | 3.1  | 6.2 | 13 | 12 |
| Height [mm]       | 3.26 | 4.6 | 5  | 3  |

Note: Other dimensions are available on request

# Track Etched Membrane Airflow Distribution



Overview on airflow distribution track-etched membrane technology vs. PTFE technology

## 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 <sup>2</sup>    | According to IEC 60068-2-52               |
| - Temperature resistance test <sup>1</sup>   | In accordance with ISO 16750-4            |
| - Ice water shock test <sup>1&amp;2</sup>    | In accordance with ISO 16750-4            |
| - Climate resistance test                    | In accordance with ISO 16750-4            |
| - Chemical resistance test <sup>1</sup>      | According LV124/ ISO 16750-5              |
| - IP Protection <sup>1</sup>                 | IP 64/65/66/67/68, according to DIN 40050 |

<sup>1</sup> Testing in progress

<sup>2</sup> Based on customer validation



## Membrane Technologies Available

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

## Related Applications

