TECHNICAL INFORMATION

Pressure Compensation Membrane

DAE-D

Pressure Compensation Membranes provide protection from particles, water, oils, and liquids while allowing pressure and temperature equalization of enclosures. They are provided with an adhesive ring and can be easily integrated into existing equipment. It can be used in a variety of applications including sensors, protective cases, lighting enclosures, appliances and general enclosures where protective venting is required.

TYPICAL APPLICATIONS

- Sensors
- Protective cases
- Lighting enclosures
- General enclosures
- Appliances
- Arena & events lighting
- Industrial lighting
- Electrical and communication junction boxes/outdoor enclosures

FEATURES & BENEFITS

Pressure Compensation Membranes extend the life of the device and improve reliability because they:

- Prevent the passage of harmful particles and liquids into the device.
- Allow for constant pressure equalization during altitude and temperature fluctuations.

TYPICAL CONSTRUCTION

Pressure Compensation Membranes are comprised of a membrane and a pressure sensitive adhesive ring that is resistant to chemicals, solvents, and high temperatures. The Pressure Compensation Membrane is protected from moisture.

PRODUCT OFFERINGS

Part number	Model	Outside diameter	Color	Typical air flow rate (l/hr/cm^2) with 12 mbar	IP Rating*		Oleophobic (AATCC 118-1992)
					66	67	
52011000	DAE-D11	Ø 11	white	2,3	✓	✓	Rating 7

* max. attainable protection possible depending on installation.

TEST SPECIFICATIONS

- DIN 40050.9: Degree of Protection (IP-Code); Protection against water and dust
- ASTM B117-09: Salt Spray Resistance - 100 hours spray at elevated temperature and pressure
- IEC 60068-2-78: High Temperature and RH - 10 days exposure
- Temperature resistance: 48 hours at -45°C and 48 hours at 80°C
- IEC 60068-2-10: Antimicrobial activity grade 2b

HANDLING & INSTALLATION GUIDELINES

- Clean mounting surface to remove any contamination. Allow surface to dry after cleaning. (see also assembly instruction DAE-D)
- Ideal location for installation is on a flat, vertical surface on an exterior housing wall. This location will prevent any liquids from collecting.