

## 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 (ml/min) with 70 mbar	IP Rating*		Oleophobic (AATCC 118-1992)
					66	67	
52011000	DAE-D11	Ø 11	white	80	✓	✓	Rating 7

\* All IP Rating tests were carried out under laboratory conditions with clear water (fresh water). Suitability in combination with other media must be checked by the user. Max. attainable protection possible depending on installation.

#### NOTICE

The venting element has no function if it is blocked with dust and / or submerged in water.

#### 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

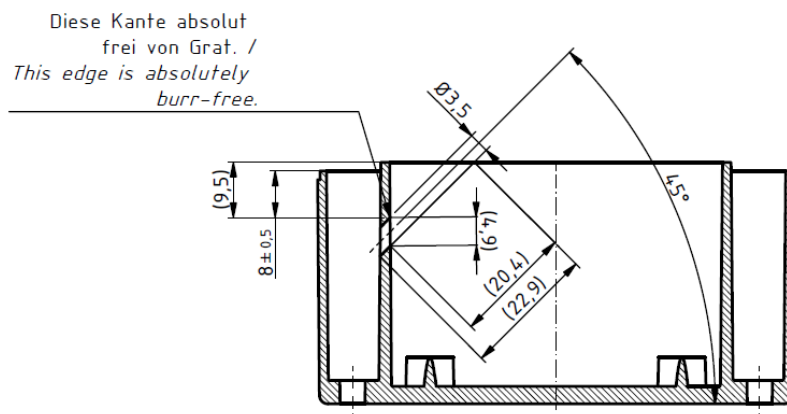
- Clean mounting surface to remove any contamination. Allow surface to dry after cleaning. (see also assembly instruction DAE-D)
- Ideal location for installation is on a flat, vertical surface on an exterior housing wall. This location will prevent any liquids from collecting.

## The following overview provides installation and machining suggestions for the DAE-D11

As far as possible the DAE-D11 should be fitted to a vertical surface for applications. This ensures that no liquids can collect in the drill holes and on the membrane and prevent the air flow and the pressure compensation.

### Installation situation for Euromas / Euromas II

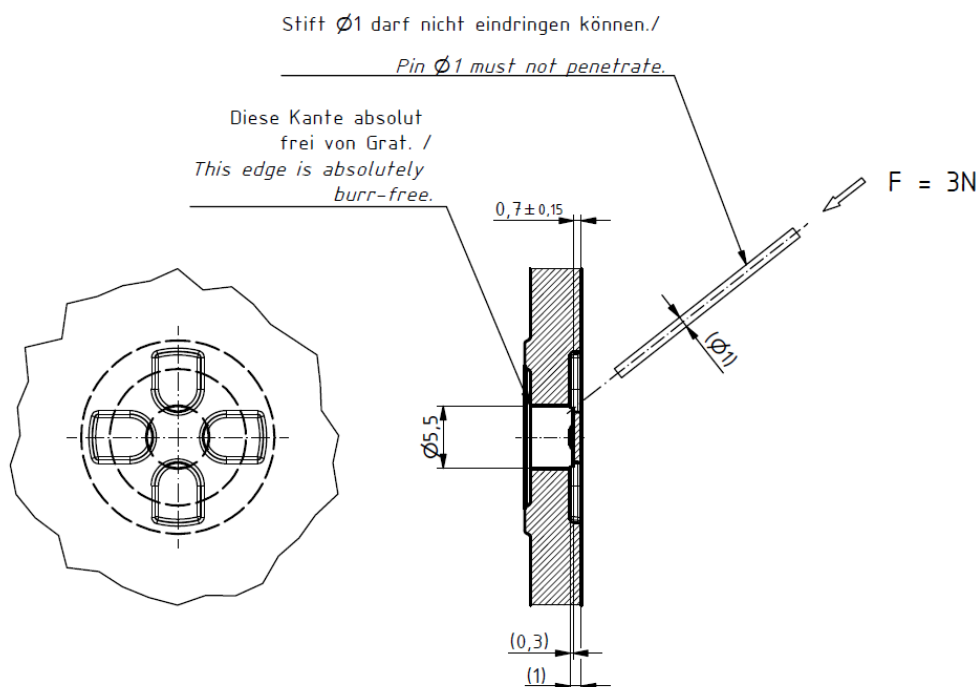
or almost all enclosures with screw channels outside the seal area:



DAE-D11 is glued on from the inside, centrally to the contour. Piercing from the outside is not possible.

### Installation situation for BOCUBE / BOCUBE-ALU

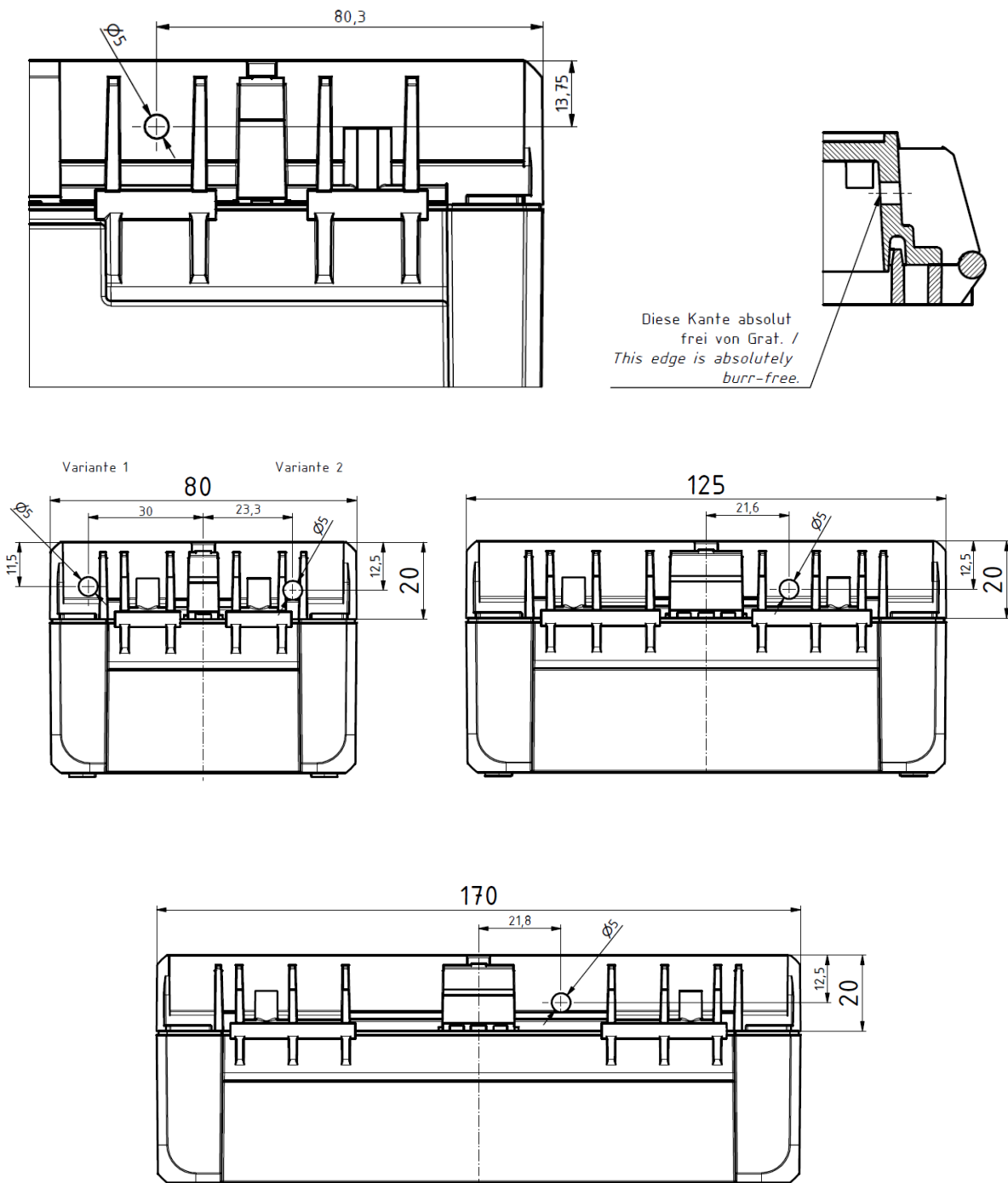
Pre-moulded contour for DAE-D11 + machining:



Mill the deep drill hole from the inside and glue the DAE-D11 from the inside into the round contour.

### Installation situation for BOCUBE

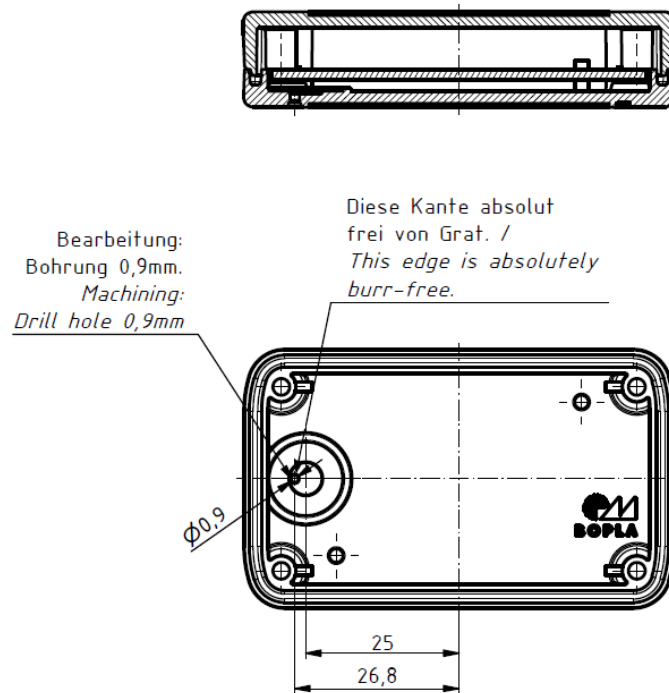
Concealed by the hinged catch.



Glue the DAE-D11 from the inside centrally to the contour. Penetration from outside after the hinged catches have been activated is not possible.

### Installation situation for BOLINK

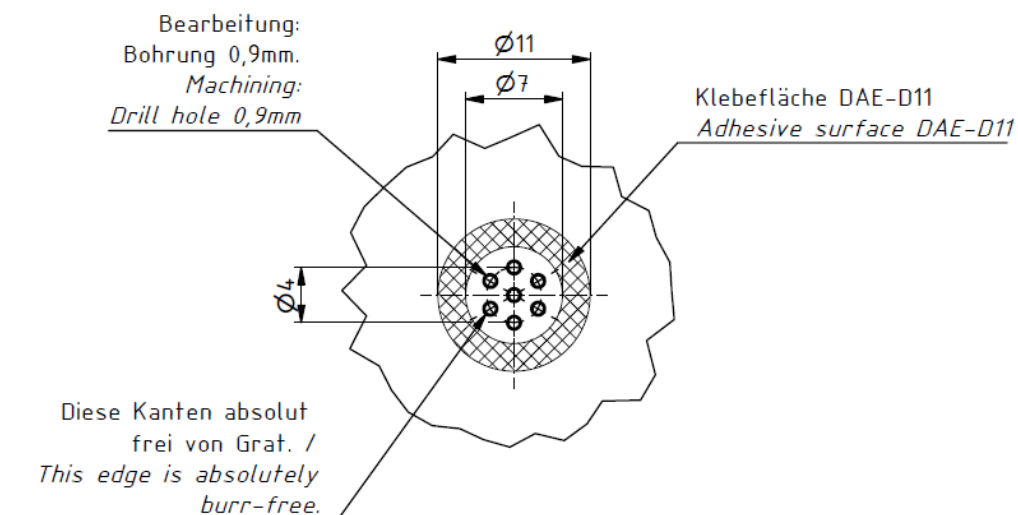
Pre-moulded contour for the DAE-D11 and position for drilling the required 0.9 mm hole.



Drill the 0.9 mm hole from the inside and glue the DAE-D11 into the round contour.

### Installation situation: General

Hole pattern 0.9 mm drill hole



Drill the 0.9 mm hole pattern and glue-in the DAE-D11 from the inside and centrally.