

# PRESSURE CONTROL

## Pressure Compensation Device



**High degree of protection**

**Semipermeable membrane**

**Easy to install**

Pressure differentials in a hermetically sealed enclosure are a result of the heat generated by electrical and electronic components in the enclosure, as well as the fluctuation of the outside temperature. In the case of negative pressure or vacuum, for example, dust and humidity can be absorbed through the door seal and can enter the enclosure.

The DA 284 Pressure Compensation Device provides a protected enclosure environment for valuable and crucial components with a **UL 4X** rated degree of protection. A semipermeable membrane inside the device allows air and humidity to leave the enclosure. In the opposite direction, it only allows dry air into the enclosure while not allowing humidity and dust from the outside to enter.

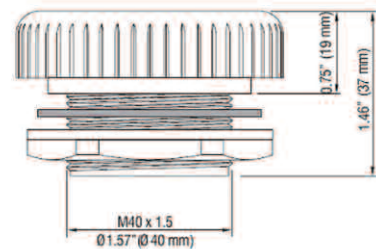
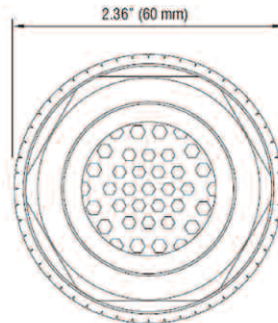


### Technical Data

<b>Mounting</b>	thread M40 x 1.5 with nut
<b>Depth in enclosure</b>	approx. 0.6" (16mm)
<b>Material</b>	plastic, PA66, light grey
<b>Sealing</b>	NBR gasket
<b>Filter</b>	semipermeable membrane
<b>Air permeability</b>	1200 liters/hr at a pressure difference of min. 70mbar
<b>Operating/storage temperature</b>	-49 to +158°F (-45 to 70°C)
<b>Dimensions</b>	Ø 2.36" x 1.46" (Ø 60 x 37mm)
<b>Protection type</b>	see below
<b>Agency approvals</b>	UL File No. 234342
<b>Environmental rating</b>	Type 1, 4 and 4X

### Installation

A hole with a diameter of 1.6 inches (40+0.5mm) is required for mounting. Make sure that the sealing gasket is placed on the outer side of the enclosure. For optimal pressure compensation, it is recommended to use two devices on opposite sides towards the top of the enclosure.



Data subject to change without notice.

Part No.	Protection type	1 packing unit	Weight (approx.)
28405.0-00	IP66 (EN 60529) / IPX9K (EN 40050-9)	2 pieces	3.2 oz. (90g)
28406.0-01	IP66 (EN 60529) / IPX9K (EN 40050-9)	1 piece	1.6 oz. (45g)

# PRESSURE CONTROL

## Stainless Steel Pressure Compensation Device



**High degree of protection**

**Semipermeable membrane**

**Corrosion resistant**

**Easy to install**

Pressure differentials in a hermetically sealed enclosure are a result of the heat generated by electrical and electronic components in the enclosure, as well as the fluctuation of the outside temperature. In the case of negative pressure or vacuum, for example, dust and humidity can be absorbed through the door seal and can enter the enclosure.

The DA 284S **Stainless Steel** Pressure Compensation Device provides a protected enclosure environment for valuable and crucial components with an **IP66** rated degree of protection. A semipermeable membrane inside the device allows air and humidity to leave the enclosure. In the opposite direction, it only allows dry air into the enclosure while not allowing humidity and dust from the outside to enter.

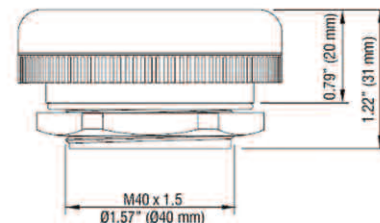
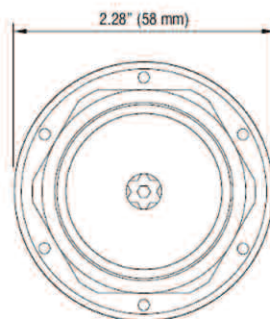


### Technical Data

Mounting	thread M40 x 1.5 with nut
Depth in enclosure	approx. 0.35" (9mm)
Material	stainless steel V2A (DIN 1.4404 / AISI 316L)
Sealing	NBR gasket
Filter	semipermeable membrane
Air permeability	1200 liters/hr at a pressure difference of min. 70mbar
Operating/storage temperature	-49 to +176°F (-45 to 80°C)
Dimensions	Ø 2.28" x 1.22" (Ø 58 x 31mm)
Protection type	see below

### Installation

A hole with a diameter of 1.6 inches (40+0.5mm) is required for mounting. Make sure that the sealing gasket is placed on the outer side of the enclosure. For optimal pressure compensation, it is recommended to use two devices on opposite sides towards the top of the enclosure.



Data subject to change without notice.

Part No.	Protection type	1 packing unit	Weight (approx.)
28401.0-00	IP66 (EN 60529) / IPX9K (EN 40050-9)	1 piece	5.6 oz. (160g)

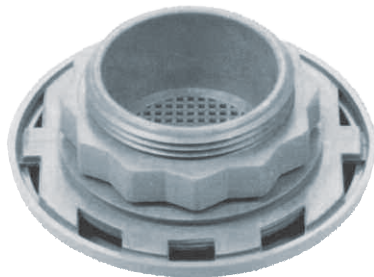


# PRESSURE CONTROL

## Pressure Compensation Device

■ **High degree of protection (IP55)**

■ **Easy to install**



It has become more and more important to provide a protected enclosure environment for valuable and crucial electrical and electronic components. In a tightly closed enclosure, pressure differentials can occur during extreme temperature variations, such as day/night operation. When this occurs, the risk of dust and humidity being absorbed into the control panel increased dramatically. The specialty designed pressure compensation plug DA 084 permits a controlled change in pressure. It can be installed easily in any enclosure. The pressure compensation device is suitable for the use in enclosures and electrical cabinets in accordance with DIN EN 62208.

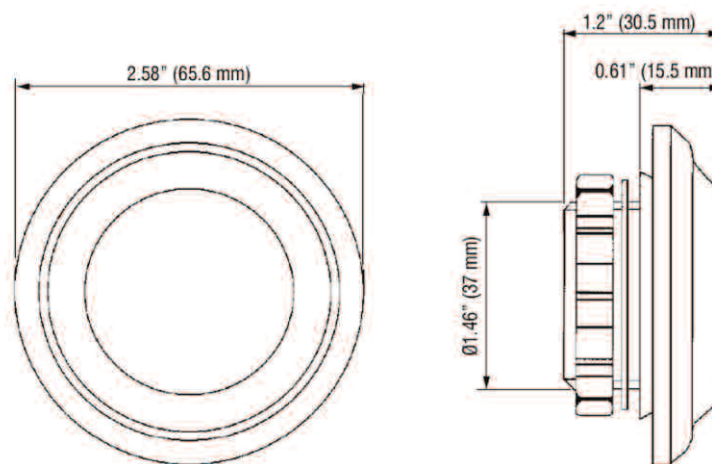


### Technical Data

<b>Mounting</b>	PG 29 thread with union nut
<b>Material</b>	plastic, UL 94V-0
<b>Air Interface</b>	Approx. 2.8 in <sup>2</sup> (7 cm <sup>2</sup> )
<b>Operating/storage temperature</b>	-49 to +158°F (-45 to 70°C)
<b>Dimensions</b>	Ø 2.58" x 1.2" (Ø 65.5 x 30.5mm)

### Installation

A hole with a diameter of 1.46" (37mm) is required for mounting. Make sure that the sealing gasket is placed on the outer side panel of the enclosure. For optimal pressure compensation, it is recommended to use two devices on opposite sides towards the top of the enclosures.



Data subject to change without notice.

Part No.	Protection type	Weight (approx.)
08400.9-01	IP55	1.1 oz. (31g)

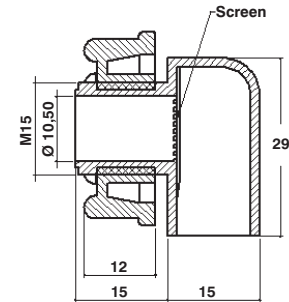
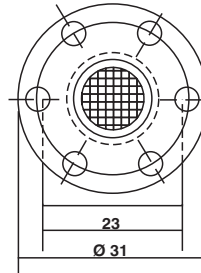
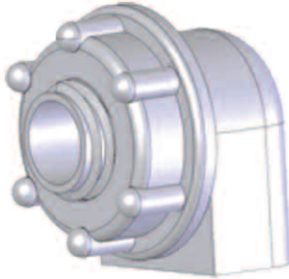
# PRESSURE CONTROL

## Aerators, pressure compensation for small enclosures

The **880 PR1** aerator, pressure compensation device allows change in enclosure pressure. This aerator is made from PA66 Nylon and is used on small enclosures. For better performance, the

aerators must be installed on opposing sides, one or more on the top and one or more on the bottom portion of the enclosure.

CATALOG NUMBER	PACKS	SHIP WGHT LBS.
880PR1	1	1

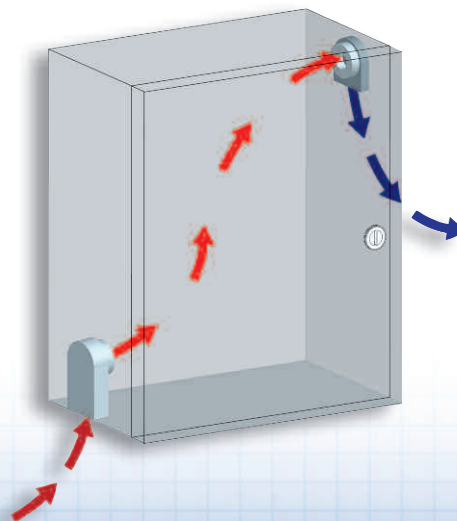
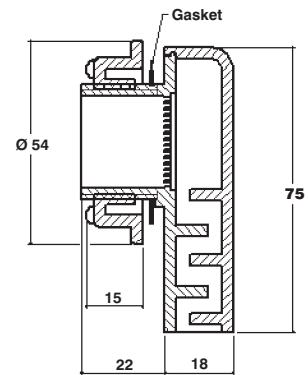
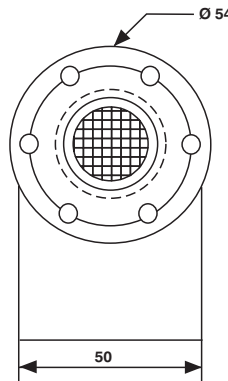


## Aerators, pressure compensation for larger enclosures

The **880 PR2** aerator, pressure compensation device allows change in enclosure pressure. This aerator is made from PA66 Nylon and is used on larger en-

closures. For better performance, the aerators must be installed on opposing sides, one or more on the top and one or more on the bottom portion of the enclosure.

CATALOG NUMBER	PACKS	SHIP WGHT LBS.
880PR2	1	1



Data subject to change without notice.