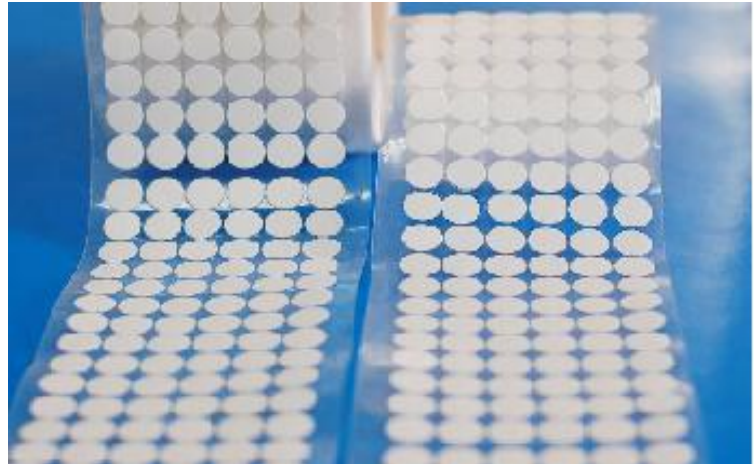




Membrane Vent



Product Description

JONES Membrane Vent is designed to protect enclosures and devices from particles, water, oil, and other liquids without negatively affecting their operation. It is comprised of a filtration membrane and a pressure-sensitive adhesive ring for securing the filter to the device.

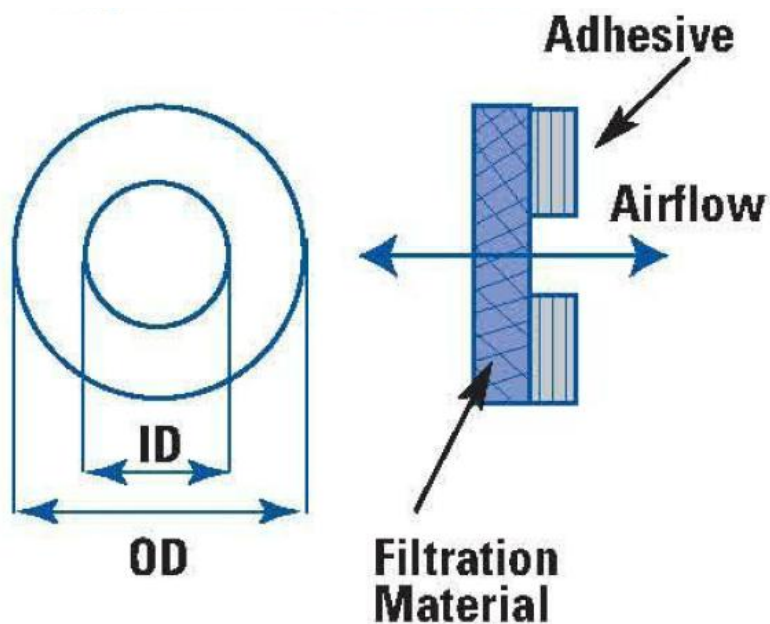
Features and Benefits

- High efficiency particulate removal
- Venting of gases and pressure equalization
- Eliminates the need for costly hermetic sealing
- Repels water, oils, and other liquids
- Easy application and device integration
- Wide variety of standard sizes and material available

Typical Applications

- Automotive electronics
- Telecommunication hardware
- Radios
- GPS navigation and other portable devices

Dimension (Unit: mm)



P/N	Sizes OD*ID	
	22-001-003-0100	mm
Inch		0.85*0.53
22-001-004-0100	mm	19.1*8.9
	Inch	0.75*0.35
22-001-007-0100	mm	7.6*3.3
	Inch	0.32*0.13
22-001-008-0100	mm	11*7
	Inch	0.43*0.28
22-001-009-0100	mm	10*5.5
	Inch	0.39*0.22

Specification

Media Description	Oleophobic ePTFE membrane with polyester / polyethylene scrim
Color	White
Efficiency	99.99% on 0.1 μm @ 3.2 meters / minute air velocity
	(99.99% on 0.1 μm @ 10.5 fpm air velocity)
Air Flow	8.5 liters / hr / cm^2 @ 12 mbar
	(0.5 cfm / sqft @ 0.5 inches water)
Thickness	0.20 mm @ 35 mbar
	(8 mils @ 0.5 psi)
Water Entry Pressure	0.8 bar
	(330 inches water or 12 psi)
Pore Size	1.0 μm
Operating Temperature	110° C
	(230° F)
Oleophobicity (AATCC 118-1992)	Rating = 8 (0 to 8: 8 is most repellent)
IP Rating (per IEC 529)	IP67
Adhesive Type	High temperature acrylic PSA
Typical Structure	0.05mm carrier with PSA on each side (2 mil)
Recommended Substrates	High energy surfaces (ABS, PC, PET, nylon, metal, etc.)
Adhesive Layer Thickness (TAPPI 411)	0.051 mm
	(2 mil)
Total Thickness (TAPPI 411)	0.152 mm
	(6 mil)
Continuous Service Temperature	150° C
	(300° F)
Short-term Temperature	233° C
	(450° F)
Minimum Temperature	-40° C
	(-40° F)



Push-in Vent



Product Description

JONES Push-in Vent is design for venting air and preventing water intake. Through it excellent permeability, Push-in Vents balance the air pressure difference between inside of housing and environmental condition and low the pressure on seal gaskets, therefore it prolongs seal gaskets service life and improve the reliability of the device.

The micro-pore membrane structure of ePTFE build-in Push-in Vent provides an effective barrier from dust and dirt and still allows the product to breathe with changing environmental conditions. This prevents pressure from building up and damaging enclosure seals, exposing sensitive components to water and debris.

Equipment used in the telecommunications industry is subjected to rapid temperature fluctuations, a variety of particulates, and exposure to wind, precipitation and solar radiation. JONES Push-in Vent Vents effectively protect them against the negative effects of pressure differentials caused by temperature changes and provide an effective barrier against dust, water, salts and other corrosive liquids. Especially Its threaded design ensures secure mechanical fastening, its durable designs keep it able to used in extremely harsh environments in the field. Its unique property makes it find the wide application in shipboard telecommunication and alarm system.

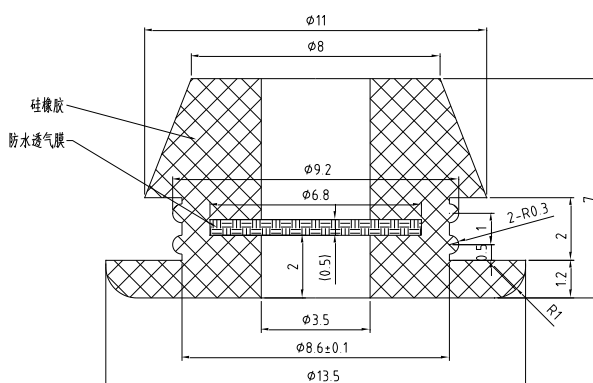
Features and Benefits

- ePTFE membrane build-in silicone case without PSA
- High reliability
- Easy to install

Typical Applications

- Automotive electronics
- Telecommunication hardware
- Radios
- GPS navigation and other portable devices

Dimension (Unit: mm)

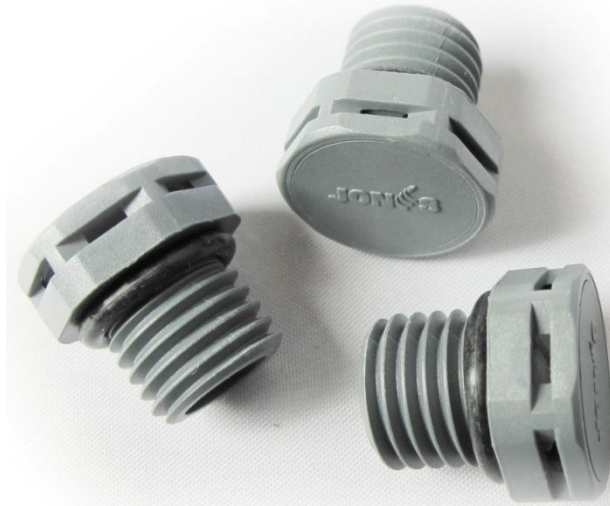


Specification

Construction Material	Base : Silicone
	Membrane: ePTFE
Color	Gray or White
Property of Membrane	Rating of Oil Repellency ⁶ (AATCC 118-1989ASTM)
	Water Entry Pressure : >0.7 bar/60 sec
IP Rating (per IEC 529)	IP67 – Under 1 meter water , no leakage /30 minutes
	IP69K – steam jet resistance
Temperature resistance (DIN IEC 68-2-14 Na)	- 40°C ~ 125°C Cycling Test:Cycles = 400 TDWET=20 min Tchange<10s
UV Resistance	Industrial Climate Test (DIN 50-0-18) Standard SFW 2.0S 9 Cycles , No mechanical change found
Salt Mist Test (DIN 50-0-21)	No salt particles entering housing through the vents
85/85 Storage Test (DIN IEC 60068-2-3)	85 °C,85%r.H. Test Time 1000 hours , No mechanical change found
Typical airflow (dp = 70 mbar/1.0 psi)	Type A ≥ 600 ml/min
Hardness range, Shore A,±5	70



M12X1.5 Screw-in Vent



Product Description

JONES Screw-in Vent is design for venting air and preventing water intake. Through it excellent permeability, Screw-in Vents balance the air pressure difference between inside of housing and environmental condition and low the pressure on seal gaskets, therefore it prolongs seal gaskets service life and improve the reliability of the device.

The micro-pore membrane structure of ePTFE build-in Screw-in Vent provides an effective barrier from dust and dirt and still allows the product to breathe with changing environmental conditions. This prevents pressure from building up and damaging enclosure seals, exposing sensitive components to water and debris.

Equipment used in the telecommunications industry is subjected to rapid temperature fluctuations, a variety of particulates, and exposure to wind, precipitation and solar radiation. JONES Screw-in Vent Vents effectively protect them against the negative effects of pressure differentials caused by temperature changes and provide an effective barrier against dust, water, salts and other corrosive liquids. Especially Its threaded design ensures secure mechanical fastening, its durable designs keep it able to used in extremely harsh environments in the field. Its unique property makes it find the wide application in shipboard telecommunication and alarm system.

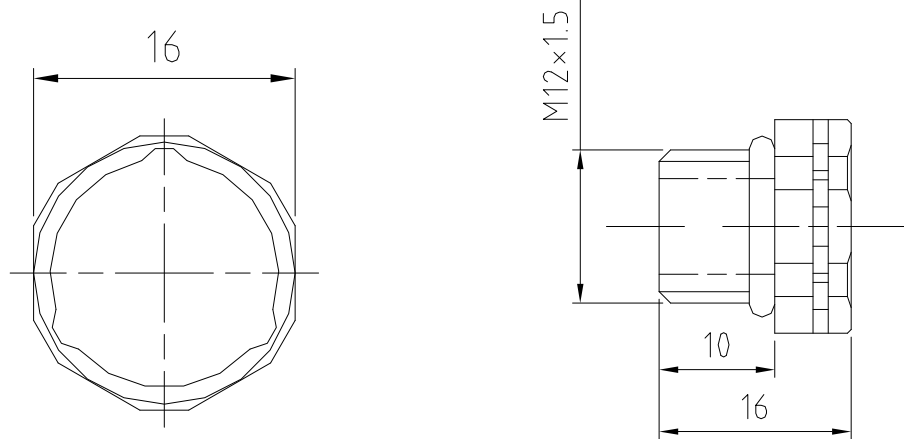
Features and Benefits

- ePTFE membrane build-in plastic case without PSA
- High reliability
- Easy to install

Typical Applications

- Automotive electronics
- Telecommunication hardware
- Radios
- GPS navigation and other portable devices

Dimension (Unit:mm)



Specification

Construction Material	Base : PA-6
	Membrane: ePTFE
	O Ring Seal : Silicone
Color	Gray or White
Property of Membrane	Rating of Oil Repellency6 (AATCC 118-1989ASTM)
	Water Entry Pressure : >0.7 bar/60 sec
IP Rating (per IEC 529)	IP67 – Under 1 meter water, no leakage /30 minutes
	IP69K – steam jet resistance
Temperature resistance (DIN IEC 68-2-14 Na)	– 40°C~125°C Cycling Test:Cycles = 400 TDWET=20 min Tchange<10s
UV Resistance	Industrial Climate Test (DIN 50-0-18) Standard SFW 2.0S 9 Cycles , No mechanical change found
Salt Mist Test (DIN 50-0-21)	No salt particles entering housing through the vents
85/85 Storage Test (DIN IEC 60068-2-3)	85 °C ,85%r.H. Test Time 1000 hours , No mechanical change found
Typical airflow (dp = 70 mbar/1.0 psi)	Type A 600~1200 ml/min
	Type B ≥ 1500 ml/min
Continuous Service Temperature	150° C

	(300° F)
Short-term Temperature	233° C
	(450° F)
Minimum Temperature	-40° C
	(-40° F)

P/N	Property	
	22-101-002-0000	Color
Typical airflow		600~1200 ml/min
22-102-002-0000	Color	White
	Typical airflow	≥ 1500 ml/min
22-101-002-0001	Color	Gray
	Typical airflow	600~1200 ml/min
22-102-002-0001	Color	White
	Typical airflow	≥ 1500 ml/min

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M4X0.7 Shield Screw-in Vent



Product Description

JONES Screw-in Vent is design for venting air and preventing water intake. Through it excellent permeability, Screw-in Vents balance the air pressure difference between inside of housing and environmental condition and low the pressure on seal gaskets, therefore it prolongs seal gaskets service life and improve the reliability of the device.

The micro-pore membrane structure of ePTFE build-in Screw-in Vent provides an effective barrier from dust and dirt and still allows the product to breathe with changing environmental conditions. This prevents pressure from building up and damaging enclosure seals, exposing sensitive components to water and debris.

Metal Screw-in Vent has excellent shielding effect than PA-6 vent. High strength metal case has good heat resistance and high impact properties, also has a good weatherability. Equipment used in the telecommunications industry is subjected to rapid temperature fluctuations, a variety of particulates, and exposure to wind, precipitation and solar radiation. JONES Screw-in Vent Vents effectively protect them against the negative effects of pressure differentials caused by temperature changes and provide an effective barrier against dust, water, salts and other corrosive liquids. Especially Its threaded design ensures secure mechanical fastening, its durable designs keep it able to used in extremely harsh environments in the field. Its unique property makes it find the wide application in shipboard telecommunication and alarm system.

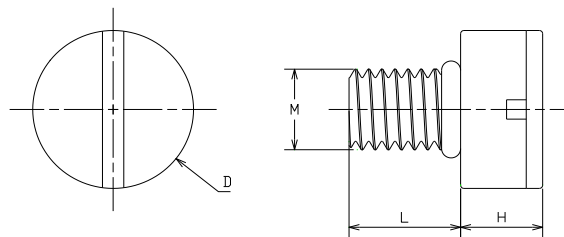
Features and Benefits

- Excellent shielding effect
- ePTFE membrane build-in metal case without PSA
- High reliability
- Easy to install

Typical Applications

- Automotive electronics
- Telecommunication hardware
- Radios
- GPS navigation and other portable devices

Dimension (Unit: mm)



P/N	Size (mm)			
	M	L	H	D
22-301-010-0000	M4*0.7	6.8	5	9.8

Specification

Construction Material	Base : Copper nickel plating
	Membrane: ePTFE
Color	Silver
Property of Membrane	Rating of Oil Repellency6 (AATCC 118-1989ASTM)
	Water Entry Pressure : >0.6 bar/60 sec
IP Rating (per IEC 529)	IP67 – Under 1 meter water , no leakage /30 minutes
	IP69K – steam jet resistance
Temperature resistance (DIN IEC 68-2-14 Na)	– 40℃ ~ 125℃ Cycling Test:Cycles = 400 TDWET=20 min Tchange<10s
UV Resistance	Industrial Climate Test (DIN 50-0-18) Standard SFW 2.0S 9 Cycles , No mechanical change found
Salt Mist Test (DIN 50-0-21)	No salt particles entering housing through the vents
85/85 Storage Test (DIN IEC 60068-2-3)	85 °C ,85%r.H. Test Time 1000 hours , No mechanical change found
Typical airflow (dp = 70 mbar/1.0 psi)	≥ 75 ml/min