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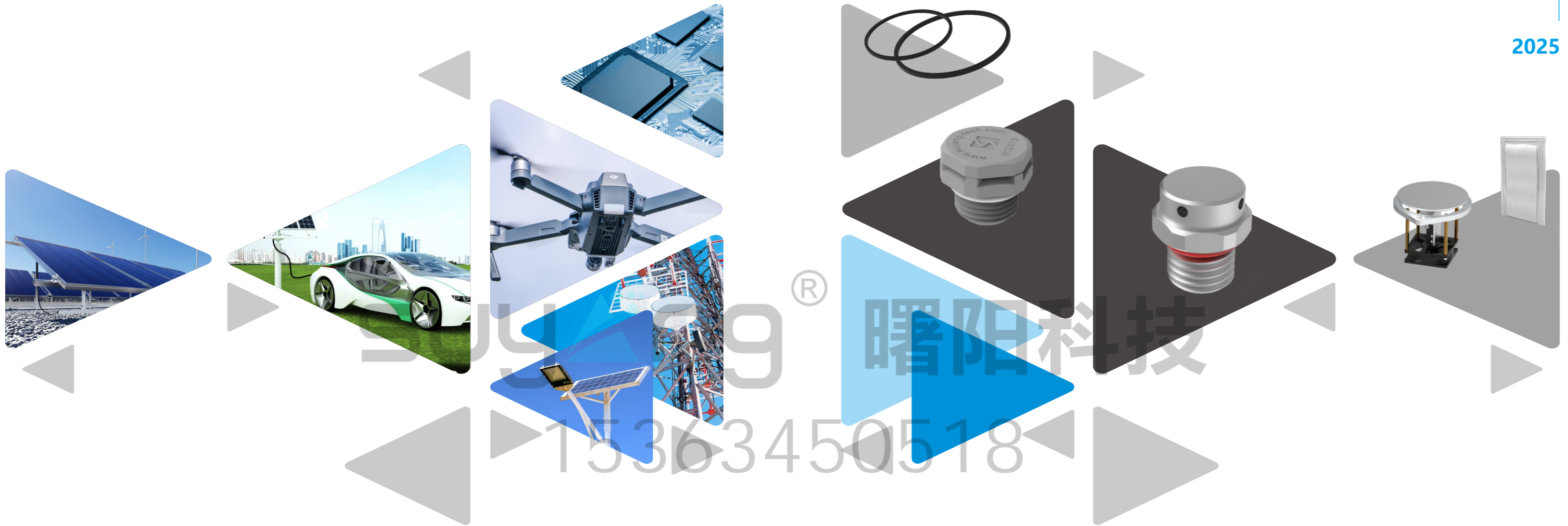


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# 创新型多孔材料 防护透气方案

SUYANG INNOVATIVE POROUS MATERIALS  
FOR PROTECTIVE VENTILATION STRATEGIES

2025



**suyang® 惠州市曙阳科技有限公司**  
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**suyang® 曙阳科技**



### 惠州曙阳科技

惠州市曙阳科技 (Suyang) 坐落于粤港澳大湾区, 广东省惠州市仲恺高新区中南高端产业园, 拥有超3000平方米的现代化生产基地, 是一家聚焦防护透气材料领域的国家级高新技术企业, 公司专注ePTFE (膨体聚四氟乙烯) 的研发、生产、加工与销售; 产品涵盖防水透气阀、防水透气 (声) 膜、透气塞/垫片、金属透气防爆阀、除湿装置/控湿片 (树脂材质控湿控油) 五大品类, 构建起全场景防护透气解决方案, 集防水、通音、防爆泄压、防油防尘及高效散热等多重性能, 通过材料科学与结构设计的创新融合, 实现对设备在复杂环境下的长效防护。曙阳产品矩阵已深度服务于新能源汽车、汽车电子、光伏能源、户外军工等大型工业 (电子电气) 设备领域, 为高压系统、动力组件等提供关键防护, 同时广泛应用于户外照明、安防监控、仪器仪表、电子电器、微过滤系统、户外通讯等场景, 保障精密器件在潮湿、粉尘、高温等环境中稳定运行; 协同控湿控油技术实现精细化防护, 满足延续设备使用寿命的高可靠性行业需求。

惠州市曙阳科技以“积极进取、诚信立本、务实创新”为企业基石, 始终恪守高品质产品战略, 以匠心造物回馈客户信赖, 在技术迭代与服务升级中持续夯实品牌价值。我们诚邀各界行业伙伴莅临企业参观考察, 共同探索防护透气技术的创新应用。曙阳科技愿以开放姿态, 与您携手构建可靠的设备环境防护体系, 共拓产业发展新机遇!

Huizhou SUYANG Technology is located in the Zhongnan High-End Industrial Park within Zhongkai High-Tech Zone, Huizhou City, Guangdong Province, in the heart of the Greater Bay Area. The company operates a modern production base spanning over 3,000 square meters and is recognized as a national high-tech enterprise specializing in protective breathable materials. It focuses on the research, development, manufacturing, processing, and sales of expanded polytetrafluoroethylene (ePTFE). SUYANG's product portfolio includes five major categories: waterproof breathable vents, waterproof breathable (acoustic) membranes, waterproof vent plug/gasket, metal breathable explosion-proof vents, and dehumidification devices/humidity control sheets (resin-based materials for moisture and oil management). These offerings collectively establish a comprehensive, scenario-based protective breathable solution that integrates multiple functionalities such as waterproofing, sound transmission, explosion-proof pressure relief, oil and dust resistance, and efficient heat dissipation. By combining innovations in material science with structural design, the company delivers long-term protection for equipment operating in complex environments. The company's product matrix has been widely adopted in large-scale industrial (electronic and electrical) equipment sectors, including new energy vehicles, automotive electronics, photovoltaic energy systems, and outdoor military applications. It provides critical protection for high-voltage systems and power components, while also being extensively applied in outdoor lighting, security monitoring, instrumentation, electronic appliances, micro-filtration systems, and outdoor communication infrastructure. These solutions ensure the stable operation of precision components under challenging conditions such as humidity, dust, and high temperatures. Through collaborative moisture and oil control technologies, SUYANG achieves refined protection, meeting the high-reliability demands of industries aiming to extend equipment service life.

办公区域 | Office

15363450518

自动化生产线 | Automatic Production

成品仓库 | Products Warehouse

**3000m<sup>2</sup>**  
生产基地

3,000-square-meter production base

**60万+**  
日产量

Daily average productivity of 600,000 pieces

研发产品  
**1000+**

Over 1,000 R&D products

**3000+**  
客户信赖

More than 3,000 stable customers

## 产品介绍

## PRODUCT INTRODUCTION



### 防水透气阀

### WATERPROOF BREATHABLE VENT

主体材质  
Material

PP / PC / PA / 铝合金 / 不锈钢 / 铜  
PP / PC / PA / Aluminum alloy / Stainless steel / Brass

应用领域  
Application  
Industries

汽车电子 / 光伏能源 / 户外通讯 / 户外照明 / 安防监控 / 骑行电摩  
Automated production / Photovoltaic energy applications  
Outdoor communications / Outdoor lighting / Security monitor  
Electric bicycles and electric motorcycles



### 防水透气帽/塞

### WATERPROOF VENT CAPS/PLUG

主体材质  
Material

PP / PC / TPE

应用领域  
Application  
Industries

汽车车灯 / 户外通讯 / 户外照明 / 化工包装 (透气塞)  
Car light / Outdoor communications  
Outdoor lighting / Chemical packaging(plug)



### 防水透气膜 防水透声膜

### WATERPROOF BREATHABLE MEMBRANE WATERPROOF PERMEABLE SOUND MEMBRANE

主体材质  
Material

ePTFE

应用领域  
Application  
Industries

汽车车灯 / 便携电子设备 / 户外通讯 / 户外照明 / 安防监控  
Vehicle light / Portable electronic equipment  
/ Outdoor communications / Outdoor lighting / Security monitor



### 金属透气防爆阀

### METAL BREATHABLE EXPLOSION-PROOF VENTS

主体材质  
Material

铝合金  
Aluminum alloy

应用领域  
Application  
Industries

新能源汽车 / 电池储能  
New energy vehicle / Battery energy storage systems



### 智能控湿机 控湿 (油) 片

### SMART DEHUMIDIFIER RESIN-BASED FIBER HUMIDITY & OIL CONTROL SHEET

主体材质  
Material

ePTFE

应用领域  
Application  
Industries

汽车电子 / 新能源汽车 / 光伏能源 / 电池储能 / 户外通讯 / 户外照明  
/ 安防监控 / 骑行电摩 / 汽车车灯 / 便携电子设备  
Automated production / New energy vehicle  
/ Photovoltaic energy applications / Battery energy storage systems  
/ Outdoor communications / Outdoor lighting  
/ Security monitor / Electric bicycles and electric motorcycles

## 防水透气阀 WATERPROOF BREATHABLE VENT

产品规格 Code	M5*0.8	M5*0.8	M6*0.75	M6*1.0	M6*1.0	M8*1.0
设计尺寸(mm) Size						
螺纹长度 Thread Length	4.5±0.2mm /6.0±0.2mm /8.0±0.2mm	8.0±0.2mm	5.0±0.2mm	5.0±0.2mm /8.0±0.2mm	8.0±0.2mm	6.0±0.2mm /10.0±0.2mm
扳手径 Wrech Size	10.0±0.2mm /11.0±0.2mm	11.0±0.2mm	10.0±0.2mm	10.0±0.2mm /11.0±0.2mm	10.8±0.2mm	14.0±0.2mm
透气量(ml/min) Air Flow Rate	A≥200ml/min@7Kpa			A≥500ml/min @7Kpa		
颜色 Color	● 黑/Black ○ 白/White ● 灰/Grey					
主体材质 Material	PC / PP					
安装方式 Installation Method	螺纹孔或配螺母 Threaded holes or corresponding nuts					
抗UV (1000H) Weather Resistance	3-4Level					
阻燃等级 Flame Retardant Rating	UL94-V0					
防水等级 IP	IP68					
工作温度 (°C) Operating Temperature Range	-40°C~125°C					
防护特性 Protection Characteristics	防水、防尘、防油 Waterproof,Dust-proof,Oil-proof					

产品可定制 Customizable



应用领域  
Application Industries  
汽车电子 / 光伏能源 / 户外通讯 / 户外照明 / 安防监控 / 骑行电摩  
Automated production / Photovoltaic energy applications  
Outdoor communications / Outdoor lighting / Security monitor  
Electric bicycles and Electric motorcycles







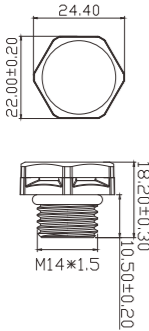
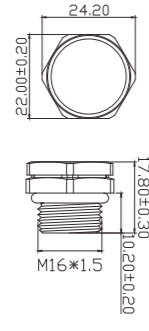
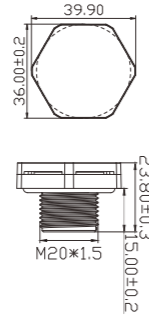
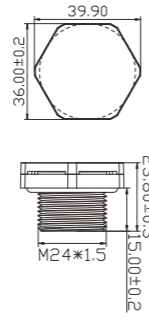
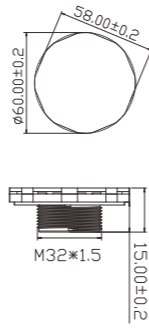
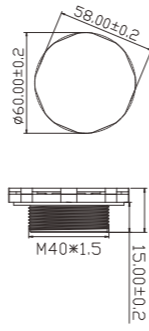
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设计尺寸(mm) Size						
螺纹长度 Thread Length	7.0±0.2mm /10.0±0.2mm	6.5±0.2mm /10.0±0.2mm	10.0±0.2mm	5.0±0.2mm /7.5±0.2mm	6.5±0.2mm /10.0±0.2mm	10.0±0.2mm
扳手径 Wrech Size	14.0±0.2mm		16.0±0.2mm			
透气量(ml/min) Air Flow Rate	A≥500ml/min @7Kpa		A≥800ml/min@7Kpa		A≥1000ml/min@7Kpa	
颜色 Color	● 黑/Black ○ 白/White ● 灰/Grey					
主体材质 Material	PC / PP		PA / PC / PP			
安装方式 Installation Method	螺纹孔或配螺母 Threaded holes or corresponding nuts					
抗UV (1000H) Weather Resistance	3-4Level					
阻燃等级 Flame Retardant Rating	UL94-V0					
防水等级 IP	IP68					
工作温度 (°C) Operating Temperature Range	-40°C~125°C					
防护特性 Protection Characteristics	防水、防尘、防油 Waterproof,Dust-proof,Oil-proof					

产品可定制 Customizable



应用领域  
Application Industries  
汽车电子 / 光伏能源 / 户外通讯 / 户外照明 / 安防监控 / 骑行电摩  
Automated production / Photovoltaic energy applications  
Outdoor communications / Outdoor lighting / Security monitor  
Electric bicycles and Electric motorcycles


## 防水透气阀 WATERPROOF BREATHABLE VENT

产品规格 Code						
	M14*1.5	M16*1.5	M20*1.5	M24*1.5	M32*1.5	M40*1.5
设计尺寸(mm) Size						
螺纹长度 Thread Length	10.5±0.2mm	10.2±0.2mm	15.0±0.2mm			
扳手径 Wrench Size	22.0±0.2mm	22.0±0.2mm	36.0±0.2mm		58.0±0.2mm	
透气量(ml/min) Air Flow Rate	A≥1500ml/min @7Kpa	A≥2000ml/min @7Kpa	A≥3000ml/min @7Kpa	A≥4000ml/min @7Kpa	A≥5000ml/min@7Kpa	
颜色 Color	● 黑/Black ○ 白/White ● 灰/Grey					
主体材质 Material	PC / PP		PA / PC / PP	PC / PP	PA / PC / PP	
安装方式 Installation Method	螺纹孔或配螺母 Threaded holes or corresponding nuts					
抗UV (1000H) Weather Resistance	3-4Level					
阻燃等级 Flame Retardant Rating	UL94-V0					
防水等级 IP	IP68					
工作温度 (°C) Operating Temperature Range	-40°C~125°C					
防护特性 Protection Characteristics	防水、防尘、防油 Waterproof,Dust-proof,Oil-proof					

产品可定制 Customizable



应用领域  
Application Industries  
汽车电子 / 光伏能源 / 户外通讯 / 户外照明 / 安防监控 / 骑行电摩  
Automated production / Photovoltaic energy applications  
Outdoor communications / Outdoor lighting / Security monitor  
Electric bicycles and Electric motorcycles

产品规格 Code				
	NPT1/4	K04	K05	PV14
设计尺寸(mm) Size				
螺纹长度 Thread Length	11.7±0.2mm	5.4±0.2mm	7.25±0.2mm	5.3±0.2mm
扳手径 Wrench Size	Φ17.6±0.2mm	13.0±0.2mm	Φ17.0±0.2mm	
透气量(ml/min) Air Flow Rate	A≥500ml/min@7Kpa		A≥1000ml/min@7Kpa	
颜色 Color	● 黑/Black ○ 白/White ● 灰/Grey			
主体材质 Material	PA / PC / PP		PBT / PC	
安装方式 Installation Method	螺纹孔或配螺母 Threaded holes or corresponding nuts		卡扣式-按压安装 Clasp-Type Installation Method	
抗UV (1000H) Weather Resistance	3-4Level			
阻燃等级 Flame Retardant Rating	UL94-V0			
防水等级 IP	IP68			
工作温度 (°C) Operating Temperature Range	-40°C~125°C			
防护特性 Protection Characteristics	防水、防尘、防油 Waterproof,Dust-proof,Oil-proof			

产品可定制 Customizable



应用领域  
Application Industries  
汽车电子 / 光伏能源 / 户外通讯 / 户外照明 / 安防监控 / 骑行电摩  
Automated production / Photovoltaic energy applications  
Outdoor communications / Outdoor lighting / Security monitor  
Electric bicycles and Electric motorcycles

## 防水透气阀 WATERPROOF BREATHABLE VENT

产品规格  
Code



设计尺寸(mm) Size	M3	M4	M4	M5	M5
设计尺寸(mm) Size					
螺纹长度 Thread Length	3.0±0.2mm	5.0±0.2mm	7.0±0.2mm	5.0±0.2mm	6.0±0.2mm
扳手径 Wrech Size	Φ5.0±0.2mm	7.0±0.2mm	Φ10.0±0.2mm	8.0±0.2mm	
透气量(ml/min) Air Flow Rate	A≥35ml/min@7Kpa	A≥100ml/min@7Kpa		A≥180ml/min@7Kpa	
颜色 Color	<input type="radio"/> 铝本色 Aluminum Color <input type="radio"/> 钢本色 Steel Gray <input type="radio"/> 铜 Brass				
主体材质 Material	铝合金/不锈钢/铜 Aluminum alloy, Stainless steel, Brass				
安装方式 Installation Method	螺纹孔或配螺母 Threaded holes or corresponding nuts				
阻水压力 Water Resistance Pressure Value	>10Kpa (≈1m水压)				
盐雾 Salt Fog Test	(IEC 68-2-11) 48H				
防水等级 IP	IP68				
工作温度 (°C) Operating Temperature Range	-40°C~125°C				
防护特性 Protection Characteristics	防水、防尘、防油 Waterproof,Dust-proof,Oil-proof				

产品可定制 Customizable



应用领域  
Application Industries  
汽车电子 / 光伏能源 / 户外通讯 / 户外照明 / 安防监控 / 骑行电摩  
Automated production / Photovoltaic energy applications  
Outdoor communications / Outdoor lighting / Security monitor  
Electric bicycles and Electric motorcycles

产品规格  
Code






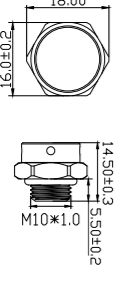
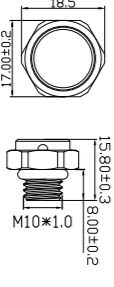
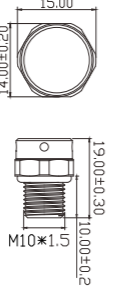
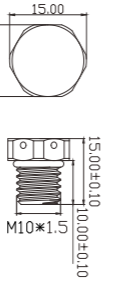
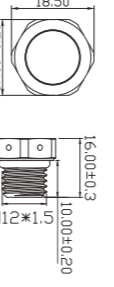
设计尺寸(mm) Size	M6	M6	M8	M8	M8
设计尺寸(mm) Size					
螺纹长度 Thread Length	6.0±0.2mm		10.0±0.2mm		7.0±0.2mm
扳手径 Wrech Size	8.0±0.2mm	10.0±0.2mm		12.0±0.2mm	
透气量(ml/min) Air Flow Rate	A≥200ml/min@7Kpa		A≥400ml/min@7Kpa		
颜色 Color	<input type="radio"/> 铝本色 Aluminum Color <input type="radio"/> 钢本色 Steel Gray <input type="radio"/> 铜 Brass				
主体材质 Material	铝合金/不锈钢/铜 Aluminum alloy, Stainless steel, Brass				
安装方式 Installation Method	螺纹孔或配螺母 Threaded holes or corresponding nuts				
阻水压力 Water Resistance Pressure Value	>10Kpa (≈1m水压)				
盐雾 Salt Fog Test	(IEC 68-2-11) 48H				
防水等级 IP	IP68				
工作温度 (°C) Operating Temperature Range	-40°C~125°C				
防护特性 Protection Characteristics	防水、防尘、防油 Waterproof,Dust-proof,Oil-proof				

产品可定制 Customizable



应用领域  
Application Industries  
汽车电子 / 光伏能源 / 户外通讯 / 城市照明 / 安防监控 / 骑行电摩  
Automated production / photovoltaic energy applications  
Outdoor Communications / Outdoor lighting / Security monitor  
Electric bicycles and Electric motorcycles

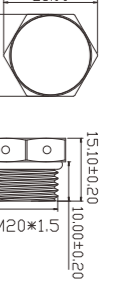
## 防水透气阀 WATERPROOF BREATHABLE VENT

产品规格 Code						
	M10	M10	M10	M10	M12	M12
设计尺寸(mm) Size						
螺纹长度 Thread Length	5.5±0.2mm	8.2±0.2mm	10.0±0.2mm			
扳手径 Wrech Size	16.0±0.2mm	17.0±0.2mm	14.0±0.2mm	17.0±0.2mm	16.0±0.2mm	
透气量(ml/min) Air Flow Rate	A≥500ml/min@7Kpa			A≥800ml/min@7Kpa		
颜色 Color	<input type="radio"/> 铝本色 Aluminum Color <input type="radio"/> 钢本色 Steel Gray <input type="radio"/> 铜 Brass					
主体材质 Material	铝合金/不锈钢/铜 Aluminum alloy, Stainless steel, Brass					
安装方式 Installation Method	螺纹孔或配螺母 Threaded holes or corresponding nuts					
阻水压力 Water Resistance Pressure Value	>10Kpa (≈1m水压)					
盐雾 Salt Fog Test	(IEC 68-2-11) 48H					
防水等级 IP	IP68					
工作温度 (°C) Operating Temperature Range	-40°C~125°C					
防护特性 Protection Characteristics	防水、防尘、防油 Waterproof,Dust-proof,Oil-proof					

产品可定制 Customizable



应用领域 汽车电子 / 光伏能源 / 户外通讯 / 户外照明 / 安防监控 / 骑行电摩  
Application Automated production / Photovoltaic energy applications  
Industries Outdoor communications / Outdoor lighting / Security monitor  
Electric bicycles and Electric motorcycles




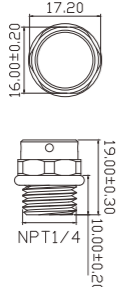
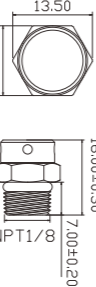
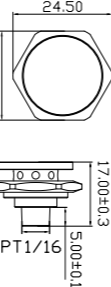
产品规格 Code						
	M12	M12	M16	M16	M20	M20
设计尺寸(mm) Size						
螺纹长度 Thread Length	7.5±0.2mm	10.0±0.2mm				
扳手径 Wrech Size	Φ16.0±0.2mm	17.0±0.2mm	18.0±0.2mm	20.0±0.2mm	23.0±0.2mm	22.0±0.2mm
透气量(ml/min) Air Flow Rate	A≥800ml/min@7Kpa			A≥1500ml/min@7Kpa		
颜色 Color	<input type="radio"/> 铝本色 Aluminum Color <input type="radio"/> 钢本色 Steel Gray <input type="radio"/> 铜 Brass					
主体材质 Material	铝合金/不锈钢/铜 Aluminum alloy, Stainless steel, Brass					
安装方式 Installation Method	螺纹孔或配螺母 Threaded holes or corresponding nuts					
阻水压力 Water Resistance Pressure Value	>10Kpa (≈1m水压)					
盐雾 Salt Fog Test	(IEC 68-2-11) 48H					
防水等级 IP	IP68					
工作温度 (°C) Operating Temperature Range	-40°C~125°C					
防护特性 Protection Characteristics	防水、防尘、防油 Waterproof,Dust-proof,Oil-proof					

产品可定制 Customizable



应用领域 汽车电子 / 光伏能源 / 户外通讯 / 户外照明 / 安防监控 / 骑行电摩  
Application Automated production / Photovoltaic energy applications  
Industries Outdoor communications / Outdoor lighting / Security monitor  
Electric bicycles and Electric motorcycles

## 防水透气阀 WATERPROOF BREATHABLE VENT

产品规格 Code			
	NPT1/4	NPT1/8	NPT1/16
设计尺寸(mm) Size			
螺纹长度 Thread Length	10.0±0.2mm	7.0±0.2mm	5.0±0.2mm
扳手径 Wrench Size	16.0±0.2mm	12.0±0.2mm	17.0±0.2mm
透气量(ml/min) Air Flow Rate	A≥100ml/min@7Kpa	A≥500ml/min@7Kpa	A≥40ml/min@7Kpa
颜色 Color	<input type="radio"/> 铝本色 Aluminum Color <input type="radio"/> 钢本色 Steel Gray <input type="radio"/> 铜 Brass		
主体材质 Material	铝合金/不锈钢/铜 Aluminum alloy, Stainless steel, Brass		
安装方式 Installation Method	螺纹孔或配螺母 Threaded holes or corresponding nuts		
阻水压力 Water Resistance Pressure Value	>10Kpa (≈1m水压)		
盐雾 Salt Fog Test	(IEC 68-2-11) 48H		
防水等级 IP	IP68		
工作温度 (°C) Operating Temperature Range	-40°C~125°C		
防护特性 Protection Characteristics	防水、防尘、防油 Waterproof,Dust-proof,Oil-proof		

产品可定制 Customizable



应用领域 汽车电子 / 光伏能源 / 户外通讯 / 户外照明 / 安防监控 / 骑行电摩  
Application Automated production / Photovoltaic energy applications  
Industries Outdoor communications / Outdoor lighting / Security monitor  
Electric bicycles and Electric motorcycles

## 防水透气帽/塞 WATERPROOF VENT CAPS/PLUG




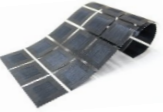


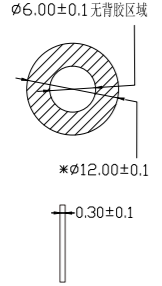
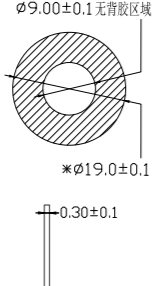
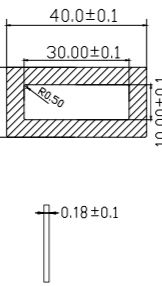
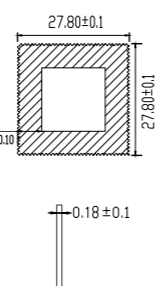
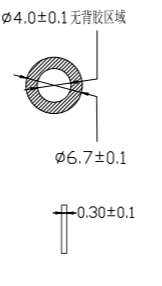
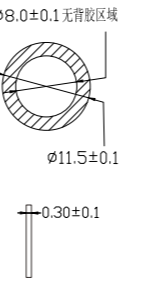
产品规格 Code				
	CSK0-B008	CSK0-B015	CSK0-B090	D15
设计尺寸(mm) Size				
内孔径 Inner Diameter	φ 7.5mm	φ 6.5mm	φ 10mm	—
外观尺寸(mm) Size	Φ18.3X13.9mm			Φ15.0X7mm
透气量(ml/min) Air Flow Rate	A≥1200ml/min@7Kpa			≥2000ml/min@7Kpa
颜色 Color	<input type="radio"/> 黑/Black <input type="radio"/> 灰/Grey <input type="radio"/> 玫红/Magenta			<input type="radio"/> 白/White
主体材质 Material	PP+TPE+ePTFE			PP+PC+TPE+ePTFE
安装方式 Installation Method	按压式 Push-fit Installation			按压式 Push-fit Installation
阻水压力 Water Resistance Pressure Value	>10Kpa (≈1m水压)			>5Kpa(约等于0.5米水压)
防水等级 IP	IP67			IP65
工作温度 (°C) Operating Temperature Range	-40°C~85°C			-40°C~120°C
防护特性 Protection Characteristics	防水、防尘、防油 Waterproof,Dust-proof,Oil-proof			

产品/颜色可定制 Customizable



应用领域 汽车车灯 / 户外照明(透气帽) / 化工包装(透气塞)  
Application Vehicle light / Outdoor lighting (CAPS)  
Industries /Chemical packaging(PLUG)

## 防水透气膜 WATERPROOF BREATHABLE MEMBRANE

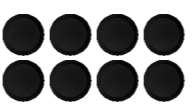

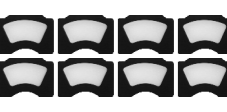
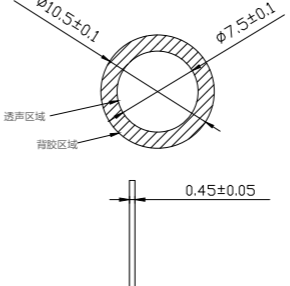
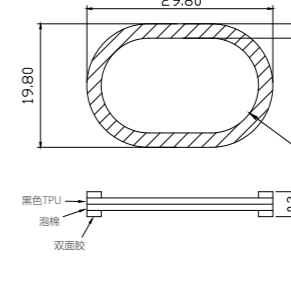
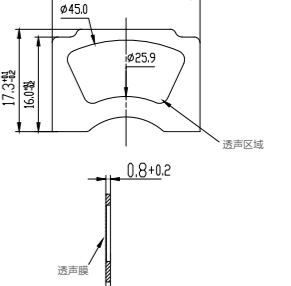
产品规格 Code						
设计尺寸(mm) Size	 ∅6.00±0.1 无背胶区域 *∅12.00±0.1 +0.30±0.1	 ∅9.00±0.1 无背胶区域 *∅19.0±0.1 +0.30±0.1	 40.0±0.1 30.00±0.1 20.0±0.1 10.00±0.1 +0.18±0.1	 27.80±0.1 10.1 6.0±0.1 +0.18±0.1	 ∅4.0±0.1 无背胶区域 ∅6.7±0.1 +0.30±0.1	 ∅8.0±0.1 无背胶区域 ∅11.5±0.1 +0.30±0.1
厚度 Thickness	0.3±0.1mm		0.18±0.1mm		0.3±0.1mm	
外观尺寸(mm) Size	∅12X6mm	∅19X9mm	40X20mm	27.8X27.8mm	∅6.7X4mm	∅11.5X8mm
透气量(ml/min) Air Flow Rate	A≥1200ml/min/cm²@7Kpa			A≥3000ml/min/cm²@7Kpa		
颜色 Color	● 黑/Black ○ 白/White		● 灰/Grey			
主体材质 Material	膨体聚四氟乙烯/(PP+PE)+ePTFE					
安装方式 Installation Method	单面粘贴 Single-sided Adhesion					
防水等级 IP	IP67		IP65		IP67	
工作温度(°C) Operating Temperature Range	-40°C~125°C					
阻水压力 Water Resistance Pressure Value	>10Kpa (≈1m水压)					
防护特性 Protection Characteristics	防水、防尘、防油 Waterproof,Dust-proof,Oil-proof					

实际应用需结合防护等级与背胶类型验证。  
The practical application needs to be verified in combination with the protection level and the type of adhesive backing.



应用领域  
Application Industries  
汽车车灯 / 便携电子设备 / 户外通讯 / 户外照明 / 安防监控  
Vehicle light / Portable electronic equipment / Outdoor communications / Outdoor lighting / Security monitor

## 防水透声膜 WATERPROOF PERMEABLE SOUND MEMBRANE

产品规格 Code			
设计尺寸(mm) Size	 ∅10.5±0.1 ∅7.5±0.1 透声区域 背胶区域 +0.45±0.05	 29.80 19.80 2.30 透声区域 黑色TPU 海绵 双面胶 +0.3	 25.00±0.1 ∅45.0 17.2±0.1 16.0±0.1 ∅25.9 透声区域 +0.8±0.2
透声膜厚度 Thickness	0.45±0.05mm	0.3±0.05mm	0.8±0.2mm
外观尺寸(mm) Size	∅10.5X7.5mm	29.8X19.8mm	29.8X19.8mm
声损量 Sound loss	1~2dB		
颜色 Color	● 黑/Black ○ 白/White		● 灰/Grey
主体材质 Material	ePTFE		
安装方式 Installation Method	单面粘贴 Single-sided Adhesion		
防水等级 IP	IP67		
工作温度(°C) Operating Temperature Range	-40°C~80°C		
阻水压力 Water Resistance Pressure Value	>10Kpa (≈1m水压)		
防护特性 Protection Characteristics	防水、防尘、防油 Waterproof,Dust-proof,Oil-proof		

实际应用需结合防护等级与背胶类型验证。  
The practical application needs to be verified in combination with the protection level and the type of adhesive backing.



应用领域  
Application Industries  
便携电子设备 / 户外通讯 / 安防监控 / 家用电子产品  
Portable electronic equipment / Outdoor communications / Security monitor / Household appliances

## 金属透气防爆阀 METAL BREATHABLE EXPLOSION-PROOF VENTS

产品规格  
Code



CJ12



CJ20



CJ40



CJ42

设计尺寸(mm) Size				
安装尺寸 Installation Dimensions	M12X1.5-L10	M20X1.5-L15	M40x1.5-L15	2-Φ5.6x55.8-D4.8
开启压力 Blasting Value	7±2Kpa		4±1Kpa	
泄压面积 Wrech Size	10.5mm <sup>2</sup>	87mm <sup>2</sup>	481.8mm <sup>2</sup>	225mm <sup>2</sup>
透气量(ml/min) Air Flow Rate	A≥500ml/min@1.5Kpa		排气≥200ml/min@2.5Kpa 进气≥4ml/min@4.0Kpa	
颜色 Color	● 铝本色 Aluminum Color			
主体材质 Material	铝合金 Aluminum Alloy			
安装方式 Installation Method	螺纹孔或配螺母 Threaded holes or corresponding nuts		法兰安装 Flange Installation	
盐雾 Salt Fog Test	720H			
防水等级 IP	IP68(1M,48H)			
工作温度(°C) Operating Temperature Range	-40°C~125°C			
防护特性 Protection Characteristics	防爆泄压、耐腐蚀 Explosion venting corrosion-resistant materials			
安装扭力 N.m	2.0±0.4N.m	3.0±0.5N.m	5.0±0.5N.m	1.5±0.3N.m

单(双)向透气泄压产品 可按具体需求定制。  
Single-direction (or double-direction) breathable pressure relief products can be customized according to specific requirements.



应用领域 新能源汽车 / 电池储能 / 大型工商储  
Application New energy vehicle / Battery energy storage systems /  
Industries Large-scale industrial and commercial energy storage cabinets

产品规格  
Code



CJ50



CJ50



CJ50

设计尺寸(mm) Size			
安装尺寸 Installation Dimensions	3-M4.0x0.7xΦ33.2-D6.0	4-M4.0x0.7xΦ33.2-D6.0	2-Φ5.5*77xD6.9
开启压力 Blasting Value	4±1Kpa		
泄压面积 Wrech Size	676mm <sup>2</sup>	609mm <sup>2</sup>	1154mm <sup>2</sup>
透气量(ml/min) Air Flow Rate	A≥2000ml/min@1.5kPa	A≥2000ml/min@1.5kPa	A≥1500ml/min@1.5kPa
颜色 Color	● 铝本色 Aluminum Color		
主体材质 Material	铝合金 Aluminum Alloy		
安装方式 Installation Method	法兰安装 Flange Installation		
盐雾 Salt Fog Test	720H		
防水等级 IP	IP68(1M,48H)		
工作温度(°C) Operating Temperature Range	-40°C~125°C		
防护特性 Protection Characteristics	防爆泄压、耐腐蚀 Explosion venting corrosion-resistant materials		
安装扭力 N.m	1.5±0.3N.m		

单(双)向透气泄压产品 可按具体需求定制。  
Single-direction (or double-direction) breathable pressure relief products can be customized according to specific requirements.



应用领域 新能源汽车 / 电池储能 / 大型工商储  
Application New energy vehicle / Battery energy storage systems /  
Industries Large-scale industrial and commercial energy storage cabinets

## 金属透气防爆阀 METAL BREATHABLE EXPLOSION-PROOF VENTS

产品规格  
Code



CJ140



CJ140

设计尺寸(mm) Size		
安装尺寸 Installation Dimensions	2-Φ6.8x150-D5	
泄压面积 Wrech Size	6442mm <sup>2</sup>	
颜色 Color	<input type="radio"/> 铝本色 Aluminum Color <input type="radio"/> 铜 Brass	
主体材质 Material	铝合金/铜 Aluminum Alloy, Brass	
安装方式 Installation Method	法兰安装 Flange Installation	
盐雾 Salt fog test	720H	
防水等级 IP	IP66	
工作温度 (°C) Operating Temperature Range	-40°C~125°C	
功率(W) Power	< 2W	
电流 (A) Electric current	0.03A±15%(负载电流 < 0.2A)	
电压 Voltage	DC24V	
行程速度(W) Power	开关速度 4mm/s, 行程 30mm, 行程到位自动断电 The switching speed is 4 mm/s, the stroke length is 30 mm, and the power will be automatically disconnected once the designated stroke length is reached.	
防护特性 Protection Characteristics	防爆泄压、耐腐蚀 Explosion venting corrosion-resistant materials	
安装扭力 N.m	3±0.3N.m	



应用领域 新能源汽车 / 电池储能 / 大型工商储  
Application New energy vehicle / Battery energy storage systems /  
Industries Large-scale industrial and commercial energy storage cabinets

## 智能控湿装置 SMART DEHUMIDIFIER

产品规格  
Code



CP180



CP280



CM360



CM680

设计尺寸(mm) Size				
	87×71×51mm (高×宽×深)	170×100×75mm (高×宽×深)	201×113×66mm (高×宽×深)	221×202×78mm (高×宽×深)
通讯电气接口 Communication Electrical Interface	RS 485			
外壳材质 Material	阻燃 ABS Flame-Retardant ABS		钣金 Sheet Metal	
工作电源 Operating Power Supply	AC/DC85V-260V 50/60HZ			
除湿温度 Dehumidification Temperature	5°C~45°C			
加热功率 (W) Heating Power	50~500W			
工作温度 (°C) Operating Temperature Range	0°C~60°C			
功率(W) Power	20W	60W	60W	120W/100W
温度检测范围 Temperature Detection Range	-40°C~120°C			
湿度检测范围 Humidity Detection Range	5%RH~95%RH			
温度启动值 Temperature Startup Value	出厂设定40°C (0~40°C) 可调节 Factory setting: 40°C (adjustable range: 0~40°C)			
除湿启动值 Dehumidification Startup Value	出厂设定 85%RH (0-100) 可调节 Factory setting: 85% RH (adjustable range: 0~100% RH)			
温度回差值 Temperature Hysteresis Value	0°C~40°C			
湿度回差值 Humidity Differential Value	0-40%RH			
温度测量精度 Temperature Measurement Accuracy	±0.5°C			
湿度测量精度 Humidity Measurement Accuracy	±3%RH			
除湿量 Dehumidification Capacity	≥180ml±5%/24H	≥280ml±5%/24H	≥360ml±5%/24H	≥680ml±5%/24H
显示方式 Display Mode	单排 2 位数显 分辨率1.0		双排 3 位数显 分辨率0.1	
导水管 Water Conduit	硅胶 D8mm*L1.5m		硅胶 D10mm*L1.5m	
传感器 Humidity Sensor	塑胶+PCBA			
安装方式 Installation Method	导轨式/壁挂式安装 DIN Rail Mounting, Wall-Mounted Installation			

应用领域 新能源汽车 / 电池储能 / 大型工商储等  
Application New energy vehicle /  
Industries Battery energy storage systems /  
Large-scale industrial and commercial energy storage cabinets

具体如: GIS控制柜、高低压开关柜、户外端子箱、机械控制柜、箱式变电站、干式变电站、  
集成电路(密封空间)、液晶器件、物理化学仪器等等  
GIS control cabinet / High-voltage and low-voltage switchgear cabinet / Outdoor terminal box,  
Mechanical control cabinet / Box-type substation, Integrated circuit (sealed space),  
Physicochemical instruments / And other related equipment.

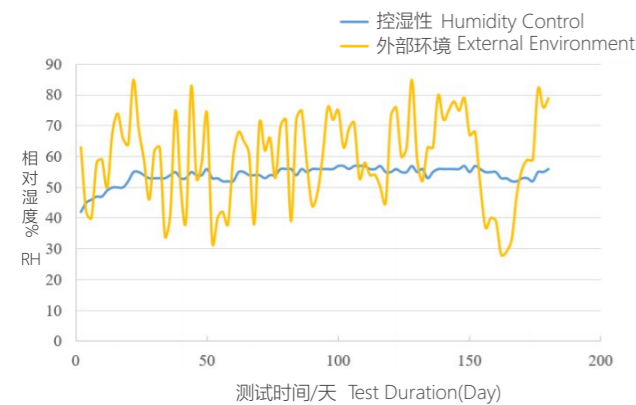
## 控湿(油)片 RESIN-BASED FIBER HUMIDITY & OIL CONTROL SHEET



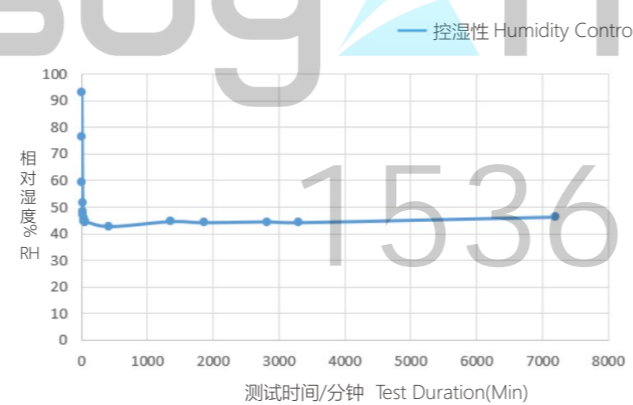
类型/项目 Type	选型速查对照表 Selection Quick Reference Table							
空间体积(升) Spatial Volume	4L	6L	11L	15L	18L	22L	25L	30L
调湿片重量(克) Product Weight	1g	2g	4g	6g	8g	10g	12g	14g
主材料 Material	ePTFE / 纤维							
吸附率(典型值) Adsorption	≥150% (产品) 条件 35°C/95%RH 24H							
脱附率(典型值) Desorption	≥50% (产品) 条件 35°C/95%RH 24H							
工作温度 (°C) Operating Temperature Range	-40~100°C							
循环干燥温度 Cyclic Temperature	≤80°C							
颜色 Color	○ 白/White							
防护特性 Protection Characteristics	除湿防凝露、持久恒湿 Dehumidification and Condensation Prevention, with Long-Lasting Constant Humidity							

对于特殊需求，需要结合密封体积计算并定制尺寸。  
For specialized products, it is essential to perform sealed volume calculations and tailor customized dimensions based on the specific characteristics of the product.

### 半密封环境控湿 Humidity Control in a Semi-Sealed Environment



### 全密封环境控湿 Humidity Control in a Fully Sealed Environment



#### 注意事项:

- 1) 拆卸外包装或安装控湿片时，请勿直接与水接触；
- 2) 防止控湿片暴露在外部环境中产生吸湿，请拆卸包装后在密闭空间中使用；

#### Notes:

- 1) Do not directly contact water when removing the outer packaging or installing the moisture-regulating sheet.
- 2) To prevent the moisture-regulating sheet from absorbing moisture due to exposure to the external environment, use it in an airtight space immediately after unpacking.



应用领域 Application Industries  
汽车电子 / 新能源汽车 / 光伏能源 / 电池储能 / 户外通讯 / 户外照明  
/ 安防监控 / 骑行电摩 / 汽车车灯 / 便携电子设备  
Automated production / New energy vehicle  
/ photovoltaic energy applications / Battery energy storage systems  
/ Outdoor communications / Outdoor lighting  
/ Security monitor / Electric bicycles and electric motorcycles

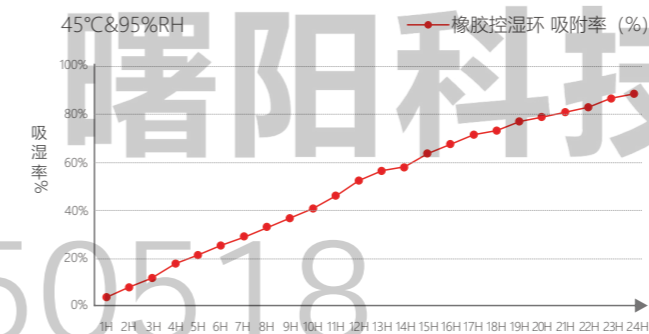
## 控湿环 HUMIDITY CONTROL RING



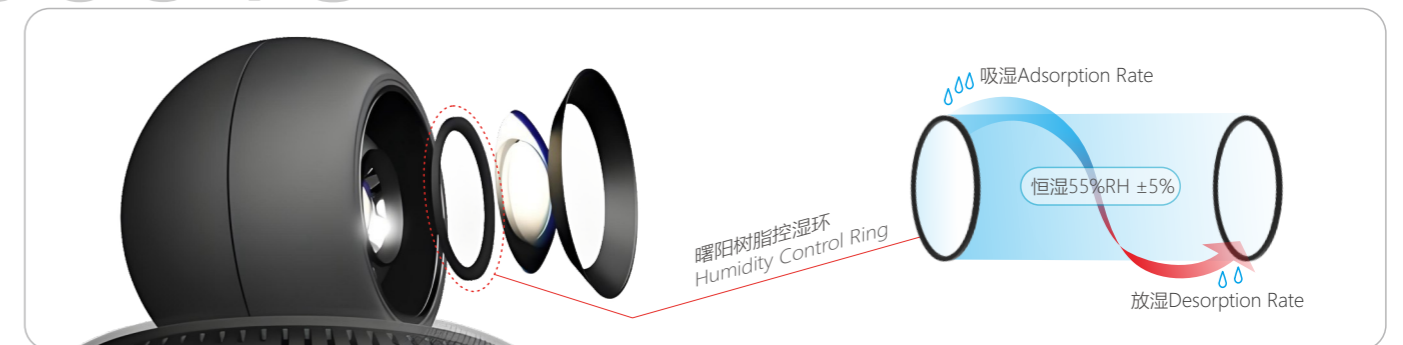
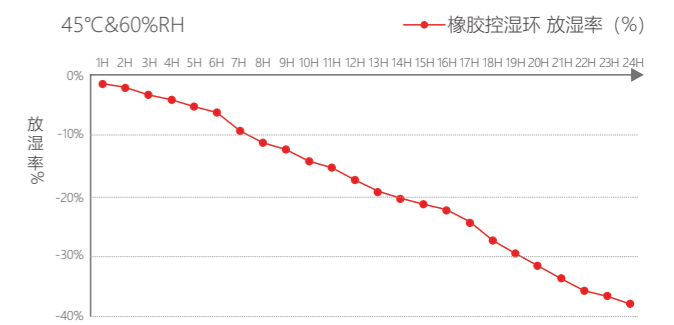
产品规格 Code	可定制
主材料 Material	合成橡胶 Polymer-based Synthetic Rubber
吸附率 Adsorption	45°C/95%RH/24H ≥80% 自重
脱附率 Desorption	45°C/60%RH/24H ≥30% 自重
工作温度 (°C) Operating Temperature Range	-40~125°C
循环干燥温度 Cyclic Temperature	≤80°C
阻燃等级 Flame Retardant Rating	UL94-V0
使用年限 Durable years	≥8
防护特性 Protection Characteristics	除湿防凝露、持久恒湿 Dehumidification and Condensation Prevention, with Long-Lasting Constant Humidity

可结合镜头规格定制产品。Customized products are available in line with lens specifications.

### 吸湿趋势图 (24H) Adsorption Rate



### 放湿趋势图 (24H) Desorption Rate



#### 注意事项:

- 1) 拆卸外包装或安装控湿环时，请勿直接与水接触；
- 2) 防止控湿环长时间暴露在外部环境中产生吸湿，请拆卸包装后在密闭空间中使用；

#### Notes:

- 1) Do not directly contact water when removing the outer packaging or installing the moisture-regulating sheet.
- 2) To prevent the moisture-regulating sheet from absorbing moisture due to exposure to the external environment, use it in an airtight space immediately after unpacking.



应用领域 Application Industries  
车载镜头、消费类电子、无人机、安防监控等设备镜头  
Lenses designed for vehicle-mounted cameras, consumer electronics,  
unmanned aerial vehicles, security surveillance systems, and related equipment

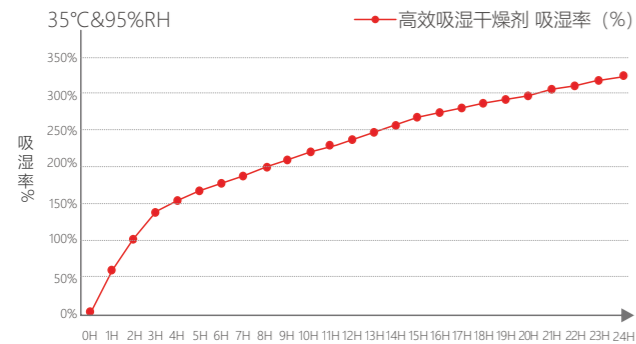
# 高效吸湿干燥剂 HIGH-EFFICIENCY HYGROSCOPIC DESICCANT



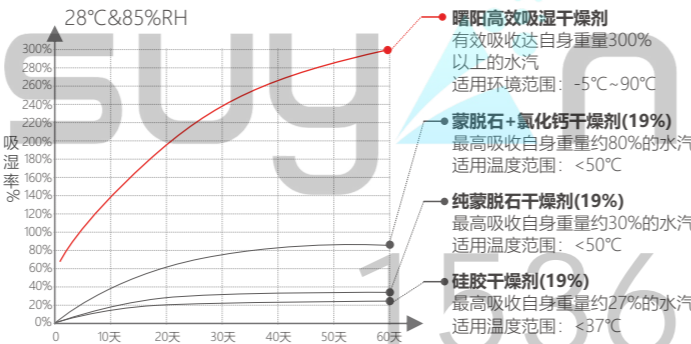
类型/项目 Type	选型速查对照表 Selection Quick Reference Table									
空间体积(升) Spatial Volume	2L	5L	8L	11L	14L	17L	20L	23L	27L	30L
调湿片重量(克) Product Weight	1g	2g	3g	4g	5g	6g	7g	8g	9g	10g
产品规格 Code	50*25*3mm	尺寸可定制								
吸附率 Adsorption	35°C/95%RH/24H ≥300% 自重									
工作温度 (°C) Operating Temperature Range	-40~125°C									
阻燃等级 Flame Retardant Rating	UL94-V0									
防护特性 Protection Characteristics	高效吸湿、防渗漏、零污染 High-Efficiency Moisture Absorption, Leakage Prevention, and Zero Pollution									

对于特殊需求，需结合密封体积计算并定制尺寸。  
For specialized products, it is essential to perform sealed volume calculations and tailor customized dimensions based on the specific characteristics of the product.

吸湿趋势图 (24H) Adsorption Rate



吸湿趋势图 (60DAYS)



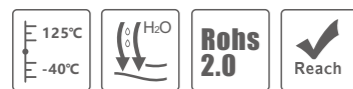
内部示意图: 快速将水分转化成半固体凝胶状, 无液体逆向蒸发、渗漏。  
Internal Schematic: Moisture is rapidly converted into a semi-solid gel, with zero reverse evaporation or liquid leakage.

注意事项:

- 1) 拆卸外包装或安装产品时, 避免长时间浸泡于水中;
- 2) 为了防止干燥剂因长时间暴露在外部环境中而吸收水汽, 从而降低其在密封空间的有效性, 建议拆卸包装后尽快安装使用;

Notes:

- 1) When disassembling the outer packaging or installing the product, avoid prolonged immersion in water.
- 2) To prevent the desiccant from absorbing moisture due to extended exposure to the external environment—thereby reducing its effectiveness upon placement in sealed spaces—it is recommended to use the desiccant as soon as possible after unpacking.



应用领域 Application Industries  
车载镜头、消费类电子、无人机、安防监控以及精密电子元器件、户外设备、工业品、日用品等需防潮除湿领域  
Our solutions cover moisture-proofing and dehumidification needs in automotive lenses, consumer electronics, UAVs, security monitoring systems, as well as precision electronic components, outdoor equipment, industrial products and daily necessities.

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