

# 承认规格书

## SPECIFICATION FOR APPROVAL



客户:

CUSTOMER:

元鼎智能科技(苏州)有限公司

客户料号:

CUS PART NO:

011901.0003

客户文件/版次:

CSR FILE / REVISION:

N/A

品 名:

PART NAME:

VALVE

品 番:

MODEL:

CJAV13-2N12B5

客户签认 CUSTOMER APPROVAL SIGNATURES:

批准 APPROVED	确认 CHECKED	品保确认 QC.CHECKED

注: 请在对应栏内签字, 如无则填写“NA”。

REMARKS: SIGN EVERY COLUMN AND STATE “NA” IF NOT APPLICABLE.

坤锦签认 CONJOIN SIGNATURES:

质量 QUALITY	应用 APPLICATION	工程 ENGINEERING
张祖荣 王平	陈和兴 王平	王明 张金辉 王平

厦门坤锦电子科技有限公司

XIAMEN CONJOIN ELECTRONICS TECHNOLOGY CO., LTD

文件编号 Doc No. ~~子科~~ WIGCKF1208

版次 Rev	1.2
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CONJOIN

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发行日期 Date 2024-12-06

厦门坤锦电子科技有限公司

**XIAMEN CONJOIN ELECTRONICS TECHNOLOGY CO., LTD**

# 产品规格书

**SPECIFICATION  
(CJAV13-2N12B5)**

分发编号  
Issue No.

**131315**

客户  
Customer

元鼎

## 变更履历表

## Revision History

序号  
No.

修订日期  
Date

## 修订内容 Contents

Revised by

# 1.0

**2024-12-06**

**首次发行 First Release**

工程  
Engineering

## 1.1

2024-12-26

依客户要求更改为二维码标贴

**Change to QR code label according to customer requirements**

工程部  
Engineering

## 1.2

2025-01-08

**增加连接器品牌以及灼热丝要求**  
**Add connector brands and hot wire requirements**

Engineering

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1. 目的：为了规范 VALVE 产品的技术要求和试验方法及标志、包装、运输及贮存要求。

**Purpose:** This specification is to regulate the technical requirements of VALVE, as well as requirements of tests, labeling, packaging, transportation and storage.

2. 适用范围：本标准适用于 CJAV13-2N12B5。

**Scope of application:** This specification applies to CJAV13-2N12B5.

3. 标准工作状态：


**Standard Operating Conditions:**

3.1	额定电压 Rated Voltage	DC 12V
3.2	额定功率 Rated Power	1.67W
3.3	额定负载 Rated Load	375mmHg
3.4	使用负载范围 Operating Load Range	0~375mmHg
3.5	模式 Type	常闭 Normally Closed Type
3.6	工作温湿度 Operating Temperature & Humidity	在温度 0℃（不结冰）~+45℃及相对湿度 15%~95%之间(不冷凝)特性无异常。 The valve should operate normally in the condition of 0℃(Not frozen) ~+45℃ temperature and 15%~95% relative humidity (No condensation).
3.7	定格使用条件 Rated Operating Condition	连续 Continuation
3.8	绝缘等级 Insulation Grade	E
3.9	使用流体 Fluid	水、热水蒸汽 Water, Hot water steam

4. 测试条件：

**Testing Conditions:**

4.1	测试姿势 Position	水平 Horizontally
4.2	电源 Power Source	试验电源的输出电压稳定无异常（±0.1V） The output voltage of power source must be stable without any abnormality (±0.1V).

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4.3	环境温湿度 Environmental Temperature & Humidity		测定时原则上温度为+20℃，相对湿度为 65%，如无争议时应在温度+5℃到+30℃之间且相对湿度在 40%到 85%之间下进行测定。 Generally the test is carried out with temperature in the range of +20℃ and relative humidity of 65%. If there is no dispute, the test should be done under such condition(+5℃~+30℃, 40%RH~85%RH).				
4.4	贮存温湿度 Storage Temperature & Humidity		温度在-20℃到+60℃之间且相对湿度在 30%到 80% (不冷凝)之间。 The valve must be stored in the condition of -20℃~+60℃ temperature and 30%~80% relative humidity (No condensation).				
5. 电气特性:							
Electrical Characteristics:							
5.1	工作电压范围 Operating Voltage		10.8~13.2VDC				
5.2	工作电流 Operating Current		工作电压范围内，工作电流≤171 mA。 The operating current is less than 171 mA within the range of operating voltage.				
5.3	直流阻抗 DC Resistance		20℃条件下直流阻抗 86Ω±10%。 DC Resistance is 86Ω±10% at 20℃.				
5.4	工作功率 Operating Power		1.23~2.26W		<div></div> <div>Fig. A    Fig. B</div>		
5.5	最低工作电压 Minimum Operating Voltage		DC10.8V(at 20℃) (阀的测试姿势，如图 Fig. B) (Direction of valves: Fig. B)				
5.6	进气端气密 Inlet Leakage		≤10mmHg 断电状态下,在进气嘴接 500 cc气罐 375mmHg±10mmHg 压力下,测试 15s 后其漏气量。 In power-off status, inlet nozzle connected to a 500cc air tank under 375±10mmHg air pressure, measure the air leakage after 15s test.				
5.7	阀体气密 Valve Leakage		≤10mmHg 10.8V 电压下，阀进气嘴外接 500 cc气罐，出气嘴堵住,在规定的气压 375±10mmHg 压力下,测试 15s 后其漏气量。 Under DC 10.8V, valve air inlet nozzle connected to a 500cc air tank while outlet nozzle blocked, under 375±10mmHg air pressure, measure the air leakage after 15s test.				

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5.8	流量 Flow Rate	在 DC 12V 电压、负载 2.5PSI 下,从进气嘴进气的流量≥9L/min。 Under DC 12V and load 2.5PSI, test the air flow rate of inlet nozzle ≥9L/min.						
5.9	绝缘阻抗 Insulation Resistance	在常温常湿环境下测试，在线圈与金属间通过 DC 500V 电压，绝缘阻抗 min 50MΩ。 Test under normal temperature and normal humidity. Connect to power DC 500V, the resistance is min 50MΩ between the coil and metal.						
5.10	耐电压 Withstanding Voltage	500V AC（50/60 Hz） at 1mA 在线圈与金属间测试一分钟无贯穿，或可用 600V AC 一秒钟测试。 500V AC (50/60Hz) at 1mA, check for puncture between the coil and metal for one minute or test with 600V AC for 1sec.						
5.11	温升 Temperature Rise Limit	≤ 75K 常温下，电磁阀通电 DC12V 持续一小时至温度饱和后，记录线圈的温升。 At room temperature, the solenoid valve is energized with DC12V for one hour until the temperature reaches saturation, and the temperature rise of the coil is recorded.						
5.12	引线强度 Lead Strength	以 0.5Kgf 砝码与引线平行负载无异常。 No damage caused with static load 0.5kgf in the same direction of the wire.						
6. 环境试验:								
Environmental Test:								
6.1	寿命试验 Life Test	进气嘴通电状态承受负载 10KPa，额定电压下，15s-ON、3s-OFF、1s-ON、3s-OFF、1s-ON、7s-OFF 为一个循环，循环 20,000 次以后测试 5-2、3、5、6、7、8、9、10，无异状。 There is 10Kpa at inlet nozzle when the valve in power on state. Under rated voltage, the valve operates 15s ON - 3s Off - 1s ON - 3s OFF - 1s ON - 7s OFF as one cycle, repeat for 20,000 cycles. The performance degradation of above 5-2, 3, 5, 6, 7, 8, 9, 10 and no abnormality should be found.						
6.2	温湿度循环试验 Temperature & Humidity Cycle Test	在温度-20℃条件下放置 24H 后，取出置于 70℃、相对湿度 95%的条件下放置 24H 后，取出置于 20℃±5℃条件下恢复 2H，测试 5-2、3、5、6、7、8、9、10 无异状。 Leave the valve at -20℃ for 24 hours, then change to the environment of 70℃, 95% RH for 24 hours, and finally place the valve at (20±5℃) for 2 hours. Examine by tests 5-2, 3, 5, 6, 7, 8, 9, 10 and no abnormality should be found.						



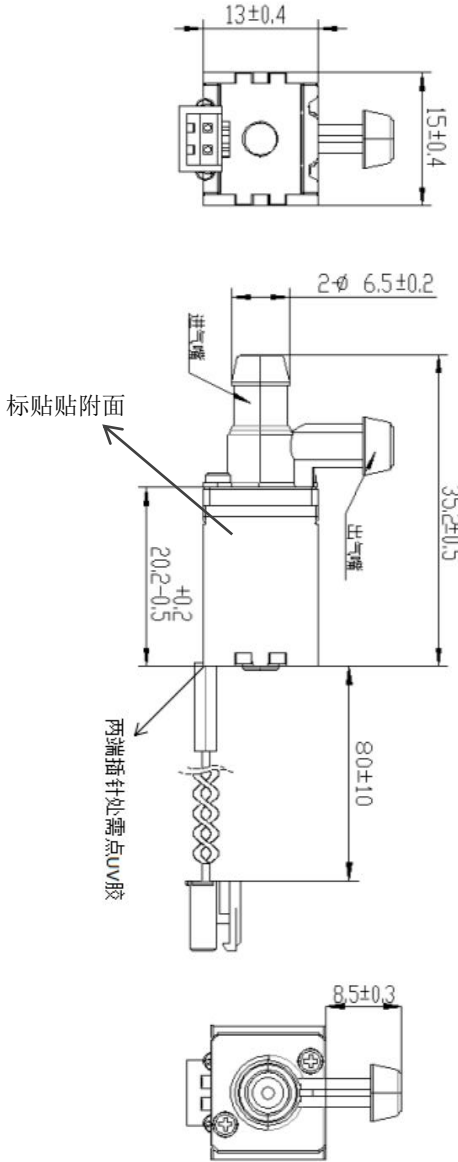
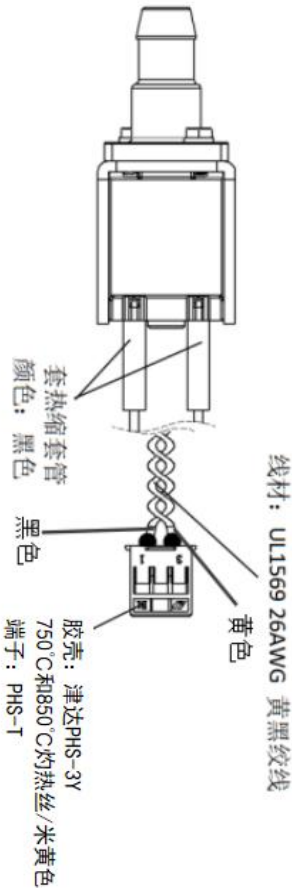
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6.3	低温放置试验 Low-Temperature Test		在-20℃条件下放置 72H 后，取出至于 20℃±5℃条件下恢复 5H，测试 5-2、3、5、6、7、8、9、10 无异状。 Leave the valve under the temperature of -20℃ for 72 hours and then change to 20℃±5℃ for 5 hours. Then examine it by tests 5-2, 3, 5, 6, 7, 8, 9, 10 and no abnormality should be found.				
6.4	高温放置试验 High-Temperature Test		在 70℃条件下放置 72H 后，取出至于 20℃±5℃条件下恢复 2H，测试 5-2、3、5、6、7、8、9、10 无异状。 Leave the valve under the temperature of 70℃ for 72 hours and then change to 20℃±5℃ for 2 hours. Then examine it by tests 5-2, 3, 5, 6, 7, 8, 9, 10 and no abnormality should be found.				
6.5	高温高湿放置试验 High-Temperature & High Humidity Test		在温度 70℃，相对湿度 95%的条件下放置 72H 后，取出至于 20℃±5℃条件下恢复 2H，测试 5-2、3、5、6、7、8、9、10 无异状。 Leave the valve under the temperature of 70℃, 95% RH for 72 hours and then change to 20℃±5℃ for 2 hours. Then examine it by tests 5-2, 3, 5, 6, 7, 8, 9, 10 and no abnormality should be found.				
7. 其他测试 Other Tests:							
7.1	落下试验 Fall Test		使用标准的包装方式，在水泥地上，距离 50cm 高度上分别从正面、侧面及边角落下性能及结构无异常。 Basic performance and the structure shall not be defected after following tests. Under standard packaging conditions, drop the carton at the height of 50cm on the concrete floor. Once against a corner, twice against edges and three times against faces.				
7.2	异常试验 Abnormality Test		以 DC12V，连续 8H 通电，无发烟，燃烧等现象。 Connect the valve to DC 12V and work in continuation for 8 hours, and no smoke or ignition should occur.				
7.3	外观 Appearance		外观无脏污等现象 Appearance without dirt and other phenomena				
7.4	标贴 Labeling		<div><div>Rated Voltage ←</div><div>QR Code ←</div><div>CJAV13-2N12B5 DC12V CONJOIN 2024122100001</div><div>Rated Voltage Company Name Lot No. →</div></div>				

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7.5	生产编号 Lot Number	<div>二维码编码规则（下记说明内容仅供参考）： CJ-X9-011901.0003-2024122100001 → 与二维码扫描结果相同</div> <div><div></div>流水号：5位数字，00001~99999</div> <div><div></div>生产日：2位数字，01~31</div> <div><div></div>生产月：2位数字，01~12</div> <div><div></div>生产年：4位数字，2024表示2024年</div> <div><div></div>客户料号，中间的“.”不能省略 ---此项标贴打印不显示</div> <div><div></div>客户项目号：X9 ---此项标贴打印不显示</div> <div><div></div>供应商：CJ(坤锦CONJOIN)---此项标贴打印不显示</div>				

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8.成品图:

Drawing of Finished Product  
(所有尺寸单位: mm)

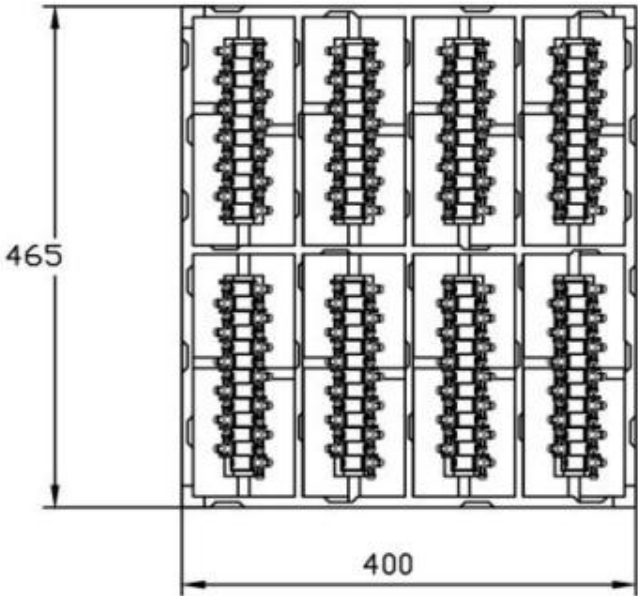




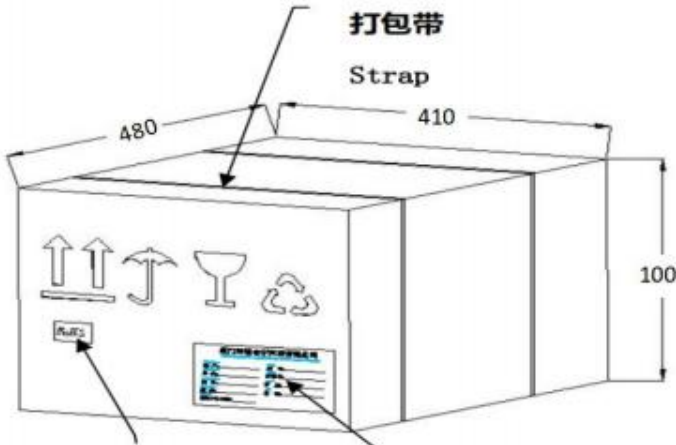
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9.包装图:

Packaging Illustration



100PCS/盘



Shipping mark

包装数量:

100PCS×5=500PCS/carton

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10.当产品生命周期终止或报废时，按当地环保法律法规执行。

When the product life cycle is terminated or scrapped, it is implemented in accordance with local environmental laws and regulations.

11.说明:

Note:

如对于此份规格书有任何需修改，增加，或删除的意见，须经客户及我公司双方协商。

In case of any necessary modifications, additions, or eliminations to this specification, implementation of such modifications should only come after negotiations between our customers and us.

12.使用注意事项（由以下禁止使用方法所造成产品功能性失效的，敝司不承担责任。）

Notes about using (Conjoin is not responsible for valve failure caused by below prohibited improper using.)

12.1 进出气嘴等外表面不可接触乙醇、天那水、墨水稀释液等腐蚀性化学液体。

Contact of valve body surface (for example outlet port) with corrosive chemical liquid such as ethanol, thinner, ink thinner etc. is prohibited.

12.2 进出气嘴不可长期与 PVC 材料及其它具有腐蚀性的套管接触；建议测试及装配时使用硅胶、EPDM 等材质的橡胶套管。

Outlet port cannot be connected to tubing of corrosive material such as PVC. For tubing used in testing and assembling, silicone rubber or EPDM material is recommended.

12.3 严禁带有腐蚀性的气，液体进入阀体以免造成阀体损害。

Corrosive gas is prohibited from entering valve body to avoid damage to valve.

12.4 装配/使用过程中防止异物进入阀体内部,避免气密性能失效。

Avoid foreign material getting into valve body to avoid leakage failure during assembling and using.