

2022

These specifications must be
handled in accordance with the
your marks



Catalogue for
user

1/1/2022

- Solenoid valve for washin...
- Solenoid valve for dishwas...
- Smart Bathroom Solenoid ...
- Solenoid valve for water p...
- washing machine water le...
- door lock for washing ma...
- High and low pressure swi...
- modular components



FPS180G series

Working voltage: AC220-240V 50/60Hz
AC100-120V 50/60Hz
Use fluid: 1-85 °C
Standard flow of public water: 3-35L/min can be customized (large flow)
0.2-7L/min can be customized (small flow)
Water pressure: 0.02-1.0MPa

[Advisory Message](#) [contact us](#)

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Product number
category double valve

Key words: double valve

- Solenoid valve for washin...
- single valve
- double valve
- multi-valve
- Solenoid valve for dishwas...
- Smart Bathroom Solenoid ...
- Solenoid valve for water p...
- washing machine water le...
- door lock for washing ma...
- High and low pressure swi...
- modular components

FCS90 series
Working voltage: AC220-240V 50/60Hz AC100-120V 50/60Hz Use fluid: 1-85 °C male...

FPS180G series
Working voltage: AC220-240V 50/60Hz AC100-120V 50/60Hz Use fluid: 1-85 °C male...

FPS270G series
Working voltage: AC220-240V 50/60Hz AC100-120V 50/60Hz Use fluid: 1-85 °C male...



规格书编号:

Specification No.

日期:

Date

《新规.变更》 <<New/Charged>>

产品规格书

Delivery Specifications

品名 Part name: 进水阀 Inlet valve FPS 180G29
客户型号 Model name: 10006312

- ※ 如规格书内容的变更, 需要事前提交品质特性和可靠性确认数据, 并书面提交变更申请。
When changing the content of these specifications, we shall submit quality and reliability check data before hand and apply in writing to your company.
- ※ 规格书包含封面与附页共____页
These specifications are composed of a total ____ pages, including the cover and attachments.

金华宏昌电器有限公司

Jinhua hongchang electric equipment co., ltd

技术部

Department

部长 G.Mgr	副部长 D.Mgr	经理 Manger	担当 Asst.Mgr	担当 In charge

注意: 受领印栏及承认栏须盖章或签名, 请勿“加笔, 订正, 消除”等
Note: Do not stamp “authorized” in the received column. Do not make “additions, revisions, deletions” etc.

		电磁进水阀					
产品规格书 Delivery Specifications							
项目 Item		适用 application					
1. 适用范围 Scope		此规格书为电气洗衣机用部件电磁进水阀（以下称电磁阀）适用规定。 This specification applies to a solenoid water inlet valve(hereinafter called “solenoid valve”)which is used in an electric washing machine					
2. 形式 Type name		先导式 Pilot-operated					
3. 基本式样 Basic Specifications							
3-1) 额定电压 Rated Voltage		AC220V/240V					
3-2) 额定频率 Rated Frequency		50HZ/60HZ					
3-3) 最大电流 Current		<27mA					
3-4) 绝缘等级 Insulation Classification		F 种 Class F insulation					
4. 环境规格 Environmental specifications							
4-1) 使用流体 Operating Fluid		-10~70℃ (冻结状态除外 without freezing condition)					
4-2) 使用环境温度 Operating Ambient Temperature							
4-3) 使用环境湿度 Operating Ambient humidity		<85%RH					
4-4) 使用水压 Operating Pressure Range		0.02~1.0Mpa					
4-5) 使用流体温度 Operating Fluid Temperature		0-60℃ (冻结状态除外 without freezing condition)					
4-6) 保管环境温度 Storing Ambient Temperature		-10~70℃ (排水状态 without water)					
5. 性能 Performance		以下项目的标准试验状态，常温常湿（周围温度 20±10℃，周围湿度 65±20%RH），水温 20±10℃，电磁阀单个。 Standard test condition is in normal temperature/humidity(ambient temperature: 20±10℃, ambient relative humidity: 65±20%RH), and water temperature of 20±10℃, tests are conducted on a solenoid valve alone.					
金华宏昌电器有限公司 Jinhua hongchang electric equipment co., ltd		制表日期 Date	承认 Approved	承认 Approved	审查 Reviewed	审查 Reviewed	编制 Design
			部长 G.Mgr	副部长 D.Mgr	经理 Manger	担当 Asst.Mgr	担当 In charge

周围温度 20℃，额定电压时
Ambient temperature 20℃, at
the rated voltage

项目 Item	适用 application									
5-1) 动作电压 Operating Voltage	静水压 0.8MPa 时，用额定电压的 85%及额定频率，开关电源时阀能快速开启或关闭。 When the water with hydrostatic pressure of 0.8MPa is applied, the power ON/OFF at the rated frequency & 85% of the rated voltage, the valve shall be opened and closed quickly.									
5-2) 水密性能 Water leakage	静水压 0.02Mpa 时，泄漏量小于 0.1ml/min ， 0.03~0.8MPa 时，阀闭合状态无漏水现象。 When the valve is closed and the water with hydrostatic pressure of 0.02Mpa, the valve leakage should below 0.1ml/min,when 0.03~0.8MPa is applied, there shall be no water leakage.									
5-3) 耐水压性能 Resistance to High Water Pressure	阀闭合状态在静水压 20bar 历时 5min，应无破损，裂纹，外部等漏水。 When the valve is closed and the water with hydrostatic pressure of 20bar is applied 5 min., there shall be no breakage, crack, external water leakage.									
5-4) 耐久性能 Life test	静水压 0.8MPa 时，开阀 5s，关阀 5s，为一个循环，50,000 次操作后满足 5-1)~5-3)、6-1)、6-2) 等项目。 After 50,000 cycles of On-Off operations (5sec. on/5sec. off at 0.8MPa hydrostatic water pressure),the valve shall meet the requirements specified in 5-1)~5-3)、6-1)、6-2) .									
5-5) 异常锁紧 Abnormal lock test	将铁芯人为锁紧，在额定功率，110%额定电压下通电，当各部件的温度达到一致时，部件不能有溶融，变形等，铁芯锁紧解除后，应满足 5-1)~5-3)、6-1)、6-2) 等项目。 Turn on the power with the iron core locked enforce (at rated frequency,110% rated voltage), when the temperature of all parts is consistent, there should be no melt or transform obviously, and when unlock the valve should meet the requirements specified in 5-1)~5-3)、6-1)、6-2) .									
5-6) 浸渍绝缘性能 Immerse Insulation Resistance	温度在 20±10℃、深 10cm 的水中浸 10 小时后，擦干表面水渍，按 6-1) 绝缘抵抗测定在 2MΩ 以上。 After immersed in the 20±10℃, 10cm depth's water for 10h, wiped the water on the surface, the valve insulation resistance should be 2MΩ or more according to note 6-1).									
5-7) 噪音 Noise	电磁阀在无水状态下，额定电压，额定频率工作，除开关动作外，在离阀 20cm 处测试噪音（励磁音）须在 68dB 以下（环境噪音在 40dB 以下）。 The rated voltage and rated frequency is applied (with no water flowing in the valve). When measured at 20cm far from valve, the sound volume (excitation sound) should be 68dB or less.									
5-8) 流量特性 Flow rate	<table border="1" data-bbox="611 1283 1262 1525"> <thead> <tr> <th>动水压 (MPa) Dynamic water pressure</th> <th>0.02-0.1</th> <th>0.2-0.8</th> </tr> </thead> <tbody> <tr> <td>A 流量 Flow rate (L/min)</td> <td>1-5</td> <td>3.8+/-20%</td> </tr> <tr> <td>B 流量 Flow rate (L/min)</td> <td>2.5-11</td> <td>10+/-15%</td> </tr> </tbody> </table>	动水压 (MPa) Dynamic water pressure	0.02-0.1	0.2-0.8	A 流量 Flow rate (L/min)	1-5	3.8+/-20%	B 流量 Flow rate (L/min)	2.5-11	10+/-15%
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A 流量 Flow rate (L/min)	1-5	3.8+/-20%								
B 流量 Flow rate (L/min)	2.5-11	10+/-15%								
6. 关联法规 电器用品安全法 Test regarding applicable Laws Electrical equipment Safety Laws										
6-1) 绝缘抵抗 Insulation Resistance	500V 绝缘测试仪在接电部（端子）与非接电金属部之间测定在 100MΩ 以上。 Insulation resistance between the live part (terminal) and the dead metal part (yoke), measured by 500V,shall be 100MΩ or more.									
6-2) 绝缘耐力 Dielectric Strength	6-1)项绝缘抵抗测试后，接电部（端子）与非接电金属部之间加 1000V 交流电压历时 1 分钟无击穿闪络，量产场合可应用实验电压的 120%历时 1s 不击穿。 After 6-1), the valve shall withstand 1000v of alternating voltage between the live part (terminal) and the dead metal part (yoke) for one minute. In case of mass production, the test voltage maybe changed to 120% of the test voltage for one second.									

项目 Item	适用 application
6-3) 温度上升 Temperature Rise	<p>阀不通水状态下单独加额定电压，额定频率时，各部件温度达到一定时，测线圈温度用电阻法测定在 115℃以下。周围基本温度为 30℃，实验前后均应满足 6-1) 6-2)。</p> <p>At an ambient temperature of 30℃, the rated voltage and rated frequency is applied continuously to the valve. When the temperature of each part becomes constant, the temperature of the coil, measured by resistance method, shall not exceed 115℃. Also, before and after the test, the valve shall meet the requirements in items 6-1)6-2).</p>
7. 环境性能 Ambient Requirements	
7-1) 耐低温试验 cold-resisting Test	<p>-10±2℃ 雾气中 48 小时放置后，阀无异常。</p> <p>After place in the -10±2℃ for 48 hours, the valve can open normal.</p>
7-2) 耐冷热冲击试验 Heat/cold resisting Test	<p>在温度 80±2℃中放置 2 小时后，常温（20℃）放置 15 分钟，-20±2℃中放置 2 小时为一次循环，10 个循环后无龟裂，变形等，并满足 5-1)~3) 等项目。</p> <p>After 10 cycles(80±2℃ left 2 hours, normal temperature <20℃>left 15 minutes, -20±2℃ left 2 hours), the valve should no cracks、deformation, and meet the requirement in the item5-1)~3).</p>
7-3) 盐水喷雾 Brine spray Test	<p>实验装置 35℃ 5%浓度食盐水中，压力 0.1MPa 条件下放置 168 小时，动作无障碍，部件无红锈。</p> <p>under the condition that the5% of the salt solution on 35℃, the injection pressure is 0.1MPa, and lays aside for 168 hours, the valve can work and there is no red rust occurred.</p>
7-4) 耐振动性能 Vibration resistance Test	<p>施加 2mm 振幅，频率 10-50HZ，前后，左右，上下各 10 分钟，共 30 分钟，满足 5-1)~3) 等项目。</p> <p>Add 2mm amplitude,10-50Hz frequency vibration to the valve in 3 direction(front and back, left and right, up and down)each take 10 minutes, 30 minutes in total, the valve should meet the requirement in items 5-1)~3).</p>
8. 其他 Others	
8-1) 装配方式 Mounting	<p>阀必须按使塑封朝上放置，这样可以垂直动作，此方式为推荐安装方式，避免塑封朝下安装。</p> <p>The valve should be mounted so that the coil is vertically upright, and should be avoid mounting downright.</p>
8-2) 安装操作 Handling	<p>(1) 检验完毕后需去除阀内水，如果使用气排湿，气压不得高于 0.2MPa。 Remove the water inside the valve after test.(when applying an air blow, the air blow pressure shall be 0.2MPa or less.</p> <p>(2) 不得分解，重装，改造阀。 Do not disassemble, reassemble, alter the valve.</p> <p>(3) 落下品禁止使用。 Do not use dropped products.</p> <p>(4) 接电部位不允许有水及灰尘等存在。 Keep the live parts free from dust or water.</p> <p>(5) 应避免进水口与出水口的过剩应力。 Avoid excessive stress to the inlet or outlet of the valve.</p> <p>(6) 在确定的环境条件及水质，长时间用或长时间不用都可能引起阀动作失灵，建议每个月开启检查一次。 Under certain environmental conditions and water quality, prolonged energizing or non-use condition may result in malfunction of the valve. It is recommended that the valve be checked for the operation at least once a month.</p> <p>(7) 线圈通电会变热，注意避免烫伤及注意周围环境的材质选择。 Coil becomes hot when energized. Care must be taken to avoid burn. Also, care must be taken for the selection of the surrounding material.</p>

金华宏昌电器有限公司 Jinhua hongchang electric equipment co., ltd	规格书编号 NO.:	
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No. 4/4

项目 Item	适用 application
	<p>(8) 冻结会使阀破坏。在冬天要求适时排水或加热以防进水阀冻坏。 Freezing may damage the valve. Anti-freezing measure, such as draining or heating, is required in the winter.</p> <p>(9) 某些配管情况可能导致阀的一些譬如噪音, 振动等现象, 请在正常条件下检查阀。 Some plumbing conditions may cause malfunction of the valve such as noise or vibration. Please check the valve performance under normal operating conditions.</p> <p>(10) 在某种特定的环境条件下, 金属件可能会出现锈迹。在正常情况下, 这些锈迹是不影响阀的性能的。 Under certain environmental conditions, rust may appear on the yoke. The rust, however, does not affect the valve performance under normal operating conditions.</p> <p>(11) 使用流体水中有异物可能导致阀失灵或漏水, 譬如沙, 砂铁, 配管锈, 灰尘, 螺纹密封胶带等。 Foreign materials in the water may cause the valve malfunction or water leakage. (Example) Sand, iron sand, rust in the plumbing, dust, thread seal tape, etc.</p> <p>(12) 产品禁止高温高湿保存。 Avoid high temperature and humidity when storing.</p>
9. 制造单位 Manufacturer	金华宏昌电器有限公司 Jinhua hongchang electric equipment co., ltd
10. 品质责任 Quality Responsibility	如有在规格书上或图纸上未提及事宜, 双方协商解决。 Any defects that are not specified in the specification or in the drawing shall be settled by mutual consultation.
11. 设计变更通告 Design change notification	材料, 设计变更及规格书记录, 工程变更, 外标贴变更前要 ELUX 确认后施行。 Any change such as material, design, specification, engineering, label, should submit ELUX for approving when apply.
金华宏昌电器有限公司 Jinhua hongchang electric equipment co., ltd	规格书编号 NO.: