

## 智能比例水阀 Intelligent Proportional Water Valve

### 产品介绍 Product Description

智能比例水阀主要包含：电机、控制器、电路板及阀体结构；

The intelligent proportional water valve mainly includes: motor, controller, circuit board and valve body structure

### 产品特征及优势 Feature and Benefits

- ◆ 采用膜片式设计将磁铁部件与介质隔离，使得电磁力更稳定；  
The diaphragm design isolates the magnet parts from the medium, making the electromagnetic force more stable.
- ◆ 采用直流微型电机，精准控制阀芯开度，从而精准控制流道流量；  
Using DC micro motor, the valve core opening is precisely controlled, so as to accurately control the flow of the flow channel.
- ◆ 产品自带位置反馈，电路短路、断路、过压、欠压等不良反馈；  
The product comes with position feedback, short circuit, open circuit, overvoltage, undervoltage and other bad feedback.
- ◆ 可提供2个独立流道，并进行流道的切换  
Two independent runners can be provided and the runner can be switched.



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### 产品作用 Application

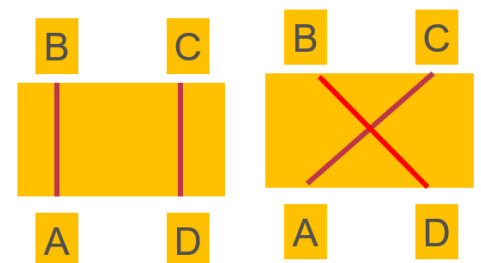
- ◆ 切换不同管路；  
Switch between different pipelines.
- ◆ 调节不同水路流量；  
Regulate the flow of different waterways.

### 操作 Operation

#### ◆ 基本原理 Basic Principle:

如右图所示，当初始状态时，A口与B口连通，D口与C口连通，形成两个独立的流道。当给电路板一个信号后，电机将带动阀芯旋转，使得A与C连通，D与B连通，此时形成两个全新的独立流道；

As shown in the figure on the right, when the initial state, port A is connected to port B, and port D is connected to port C, forming a state two independent runners. When a signal is given to the circuit board, the motor will drive the valve spool to rotate and make A and C are connected, and D and B are connected, forming two new independent runners.



#### ◆ 包装选项 Packaging Options:

可提供定制包装以满足任何需要，请联系KESENS技术部了解详情。

Custom packaging can be provided to meet any need, please contact KESENS Engineering for details.

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### 技术参数 Functional Characteristics

项目 ITEMS	参数 PARAMETER
通讯方式 Communication Method	LIN2.1
工作电压 Operating Voltage	DC 9~16V
工作电流 Operating Current	< 0.16A
环境温度 Ambient Temperature	-40°C~100°C
工作温度 Temperature Range	-40°C~100°C
爆破压力 Burst Pressure	> 800KPa
最大工作压力 Max Working Pressure	500KPa
流阻 Flow Resistance	<1.5kPa@15L/min
切换时间 Switch Time	< 3s
内漏 Internal Leakage	≤15 ml/min @ 30KPa
防护等级 Degree Of Protection	IP69
重量 Weight	160g
寿命次数 Lifetimes	>200k cycles

可根据需要定制电气和环境规范，详情请联系KESENS技术部。

Custom electrical and environmental specifications can be designed to meet any need, please contact KESENS Engineering for details.