

## 智能比例水阀

### Intelligent Proportional Coolant 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 coolant valve mainly includes: motor, controller, circuit board and valve body structure.

## 产品特征及优势 Feature and Benefits

- 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.
- 可定制的流通模式，并进行流道的切换。  
Customizable circulation mode and channel switching.
- 密封结构全新设计，保证产品低内漏。  
Newly designed sealing structure ensures low internal leakage of the product.

## 产品应用 Product Application

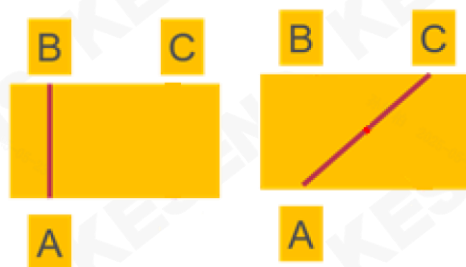
- 切换不同管路。  
Switch between different pipelines.
- 调节不同水路流量。  
Regulate the flow of different coolant ways.

## 操作 Operation

### 基本原理 Basic Principle

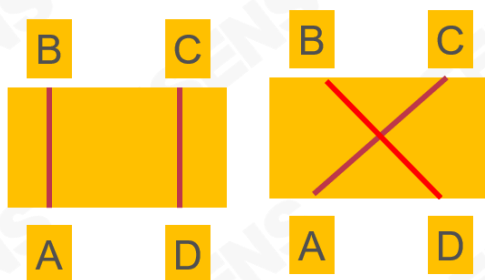
三通水阀：如右图所示，当初始状态时，A口与B口连通。当给电路板一个信号后，电机将带动阀芯旋转，使得A与C连通；

3-way coolant valve: As shown in the figure on the right, when the initial state, port A is connected to port B. 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;



四通水阀：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。

4-way coolant valve: 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 KESSENS Engineering for details.

## 技术参数 Technical Characteristics

项目ITEMS	参数PARAMETER
通讯方式 Communication Method	LIN/PWM
工作电压 Operating Voltage	DC 9~16V
环境温度 Ambient Temperature	-40°C~120°C
工作温度 Temperature Range	-40°C~115°C
爆破压力 Burst Pressure	> 800kPa
最大工作压力 Max Working Pressure	500kPa
流阻 Flow Resistance	<10kPa@20L/min
切换时间 Switch Time	< 10s
内漏 Internal Leakage	≤20ml/min@ 160kPa (coolant)
外漏 External Leakage	≤2mL/min@300kPa (air)
防护等级 Degree Of Protection	IP6K9K
寿命次数 Lifetimes	>200k cycles

可根据客户需求定制产品，如有需求请联系我们。  
Customized products available upon request. Contact us for details.

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