

智能比例水阀（大口径）

Intelligent Proportional Water Valve (Large caliber)



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 (large caliber) 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;
- 管口内径定制，降低产品流阻。
Customized inner diameter of pipe to reduce product pressure drop.

产品应用 Product Application

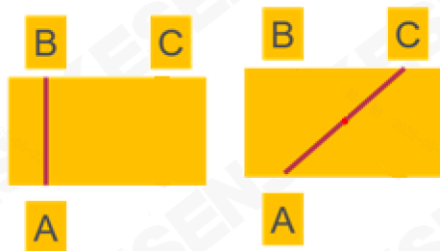
- 切换不同管路；
Switch between different pipelines;
- 调节不同水路流量。
Regulate the flow of different coolant ways.

操作 Operation

基本原理 Basic Principle

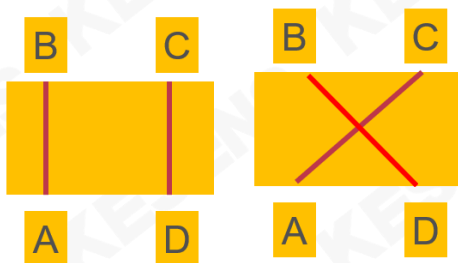
三通水阀：如右图所示，当初始状态时，A口与B口连通。当给电路板一个信号后，电机将带动阀芯旋转，使得A与C连通；

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 KESENS 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	<15kPa@55L/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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