



温度控制阀供应商  
Thermostatic Valve Supplier

## About us 公司简介

We are a high-tech enterprise that focuses on the research and production of thermostatic valves. Until now we have gotten ISO9001:2015, EAC, ATEX and PED certificates. Our products have been widely applied in diesel engines, air compressors, oil & gas equipment, lube oil & cooling water skids, air conditioning and refrigeration equipment.

我们是一家专注于温度控制阀研发和制造的高科技企业。截止目前，我们已获得ISO9001:2015、EAC、ATEX和PED证书。我们的产品已广泛应用于柴油机、空气压缩机、油气设备、润滑油站和冷却水站、空调和制冷设备。

We aim to provide the products with the highest quality, lowest cost. Except the regular thermostatic control valve, we can provide the customized thermostatic control valves to match with your piping fittings, oil filtrations, sensors, etc.

我们的目标是为客户提供高质量，低成本的产品。除常规产品外，我们还可以提供与您的管道配件、过滤器、传感器等配套的专属温控阀。



## Major Customers 主要客户

Air compressors  
压缩机市场 >>



Diesel engines  
发动机市场 >>



Oil & gas  
油气田市场 >>



# 3-way wax thermostatic valve

## 三通蜡式温控阀

### How it works 工作原理

Thermostatic valves utilize the principle of expanding wax, which in the semi-liquid state undergoes large expansion rates within a relatively narrow temperature range. The self-contained thermostat activates its sleeve, which regulate the flow rate into the cooler, finally keep the liquid at an appropriate temperature.

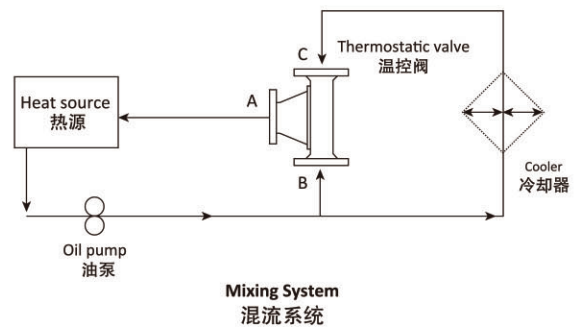
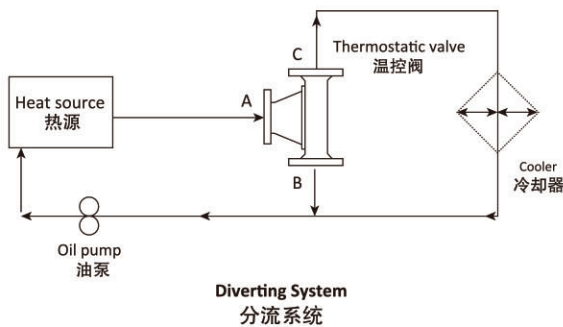
温控阀采用石蜡受热膨胀原理，膏状的石蜡在较小的温度范围内具有较高的膨胀率。温控阀芯将根据受热状态推动衬套运动，从而调节进入冷却器的液体流量，最终达到控制液体温度的目标。

When used in a diverting application, on start-up the total fluid is routed back to the main system by B port. As fluid temperature rises to the open temperature, some fluid is diverted to the cooling system by C port. As fluid temperature continues to increase, more flow is diverted. When the thermostat is in a fully stroked condition, all fluid flow is directed to the cooling system.

当温控阀应用于分流系统时，启动时所有液体均不经过冷却器，温控阀通过B口返回系统。当液体温度达到开启温度时，一部分液体将通过C口进入冷却系统。随着液体温度持续上升，进入冷却器的液体会增多。当温控阀处于全开状态时，所有液体均通过冷却器。

The thermostatic valves may also be used in a mixing application. Hot fluid enters by B port and cold fluid enters by C port, they mixed at A port. The thermostat adjusts flows through B ports and C port to reach the setting temperature, exiting the A port to the system.

温控阀也可应用于混流系统，这时候高温液体经过B口进入温控阀，而低温液体则通过C口进入温控阀，两种不同温度的液体将在温控阀内被调节到设定的温度，最后经过A口进入到应用系统中。



### General specifications 通用特性

Body materials: ● Aluminium - for light weight

- Bronze - for seawater
- Cast iron - for fresh water and lubricating oils
- Ductile iron - high performance iron
- Steel - for high strength/pressure ratings
- Stainless steel - corrosive applications

Seal materials: ● NBR

- Viton
- Neoprene

Connections:

- Thread - NPT, SAE, BSPT, BSPP
- Flange - American standard, metric standard
- Welding - socket welding, butt welding

Thermostats:

- Standard thermostats are of bronze and stainless steel
- Nickel plated thermostats

Valve sizes: 15mm through 200mm

Temperatures range: 13°-132°C

Flow rate: 0-450

Pressure ratings: 0-50 Bar

阀体材质: ● 铝 - 用于轻质要求系统

- 铜 - 用于海水、抗震及低导磁性液体
- 灰铁 - 用于普通淡水及润滑系统
- 球铁 - 用于承压等级比较高的系统
- 碳钢 - 用于压力等级非常高的系统
- 不锈钢 - 用于有腐蚀性液体系统

密封材质: ● 丁腈橡胶

- 氟橡胶
- 氯丁橡胶

连接方式:

- 螺纹 - 美制螺纹、英制螺纹
- 法兰 - 美标法兰、公制法兰
- 焊接 - 承插焊接、对接焊接等

阀芯材质:

- 铜 - 用于大部分润滑、冷却系统
- 铜镀镍 - 用于含硫化氢等腐蚀性液体系统

阀门通径: 15-200mm

温度范围: 13-132°C

流量范围: 0-450

压力范围: 0-50bar

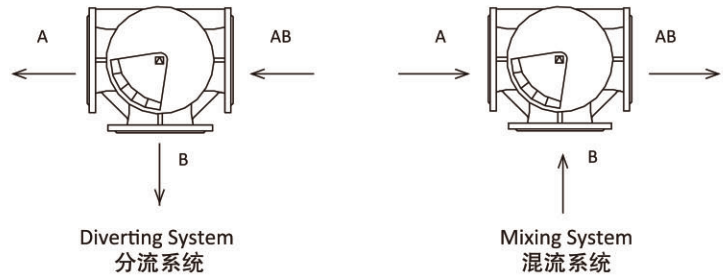
# 3-way rotary thermostatic valve

## 三通旋转式温控阀

### How it works 工作原理

Our rotary thermostatic valve is quarter turn operation with a rotor, which is designed for regulating the liquid's temperature. It can be used in diverting or mixing system.

我们的旋转式温控阀是利用内部的转子转动来调节液体的温度，转子每次转动角度为90度，分流系统和混合系统均可使用。



### Electronical system 电控系统

The electronic temperature control system combines an electrical actuator, valve body, PID controller and temperature sensor.

电控系统由电动执行器、阀体、PID控制器和温度传感器组成。



Electrical actuator  
电动执行器



Valve body  
阀体



PID controller  
PID 控制器



Sensor  
传感器

### Pneumatic system 气控系统

The pneumatic temperature control system integrates a pneumatical actuator, valve body, controller and temperature sensor. The pneumatic system is suitable for the situation that is lack of electricity or where needs a fail-safe.

气控系统由气动执行器、阀体、控制器和温度传感器组成，主要应用于缺电或需要故障保护的场合。



Pneumatic actuator  
气动执行器



Valve body  
阀体



Controller  
控制器



Sensor  
传感器

### General specifications 通用特性

Body materials: ● ductile iron

- Bronze
- Cast steel
- Stainless steel

Seal materials: ● NBR

- Viton

Connections: ● EN1092-2-PN6, PN10, PN16

- JIS B2210-5K, 10K
- ASME B16.5-125lbs, 150lbs

Valve size: DN50 to DN800

Leakage ratio: less than 0.5%

Temperature range: up to 100℃

阀体材质: ● 球铁

- 铜
- 碳钢
- 不锈钢

密封材质: ● 丁腈橡胶

- 氟橡胶

连接方式: ● 公制法兰: PN6、PN10、PN16

- 日标法兰: 5K、10K
- 美标法兰: 125lbs、150lbs

阀门通径: 50mm-800mm

泄漏率: < 0.5%

温度范围: 0-100℃

## Oil centrifuge 离心式过滤器

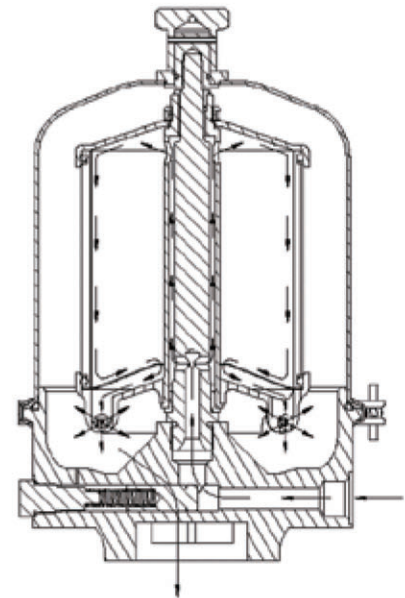
Spin Clean is a true centrifuge that will remove the particles from the oil down to less than one micron. This will reduce engine wear a minimum of 40-50%. It removes the particles from the engine oil using centrifugal force which will be 1000 times force of the gravity. The particles will be stored in the turbine bowl which will hold more than 10 times the solids of your engine regular filters. Once the particles have been removed, then the clean oil will be returned to the oil pan.

Spin Clean是一种真正的离心过滤器，它可以过滤掉润滑油中大于1微米的颗粒，这将至少降低40-50%发动机磨损。它利用离心力将颗粒从润滑油中过滤掉，该离心力是重力的1000倍。颗粒将被储存在离心式过滤器的涡轮杯中，这个涡轮杯的容量至少是发动机常规过滤器容量的10倍。颗粒清除后，清洁的润滑油将返回油底壳。



### How it works 工作原理

- Pressurized oil enters oil centrifuge on bottom right.
- Oil enters the turbine, begins to fill and pressurizes.
- Oil exits the two nozzles at the bottom of the turbine at a very high pressure thus causing the turbine to spin.
- The particles bigger than one micron will be stuck to the paper insert on the wall of the bowl and the clean oil will return to the system.
- 有压力的润滑油从右下方入口进入的离心式过滤器。
- 润滑油进入涡轮后，开始充注、加压。
- 润滑油在高压作用下排出涡轮底部的两个喷嘴，产生的作用力推动涡轮旋转。
- 大于1微米的颗粒将被涡轮杯内侧的滤纸挡住，停留在滤纸内侧，清洁的润滑油将通过滤纸并返回系统。



### General specifications 通用特性

Mode Number 产品型号	Rated flow (LPM) 额定流量 (升/分)	Oil sump capacity (L) 油箱容量 (升)	Dirt holding capacity (L) 杂质容量 (升)	Drain location 出口位置	Oil control Base Option 选配油滤座
75	3.8	56.8	0.28	Side / 侧	No / 无
150	7.6	113.6	0.83	Side / 侧	No / 无
M300	15.1	227.1	2.34	Side / 侧	No / 无
300	15.1	227.1	2.34	Bottom / 底	Yes / 有
1000-8	30.3	454.3	5.46	Bottom / 底	Yes / 有
1000-12	45.4	681.4	5.46	Bottom / 底	Yes / 有
1000-16	60.6	908.5	5.46	Bottom / 底	Yes / 有



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版本号：EK20240315

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