Meisonilan®

梅索尼兰，携手共辉煌

梅索尼兰阀门(苏州)有限公司
MEISONILAN(SUZHOU)VALVE CO.,LTD

地址：中国苏州市吴中区横泾天鹅荡路2588号
电话：0512-6812 6111
传真：0512-6812 7111
邮箱：sales@meisonilan.com
网址：www.meisonilan.com

Meisonilan®

梅索尼兰

80T01Y、80T01R

自力式温度(加热型)控制阀

梅索尼兰阀门（苏州）有限公司
MEISONILAN VALVE (SUZHOU) CO.,LTD

CONTROL VALVE

Meisonilan®
Automation Instrument

▶ 80T01Y、80T01R 自力式温度（加热型）控制阀

▲ 概述

80T01Y、80T01R 自力式温度控制阀加热型，由控制阀门和一个带定点调节的温控器组成。
适用于非腐蚀性的液体、气体和蒸汽，在各种加热系统中的温度控制，当被控介质温度升高时，控制阀关闭。

主要特点如下

1、具有压力平衡功能，灵敏度高
2、低噪音，性能可靠，免于维护
3、采用标准模块化设计
4、采用进口定点调整器，质量可靠，具有超温保护功能
5、通过组合件，可以进行多项组合控制

技术参数和性能

阀体

公称通径		DN15、20、25、32、40、50、65、80、100、125、150mm
公称压力		PN1.6、4.0MPa
法兰标准		ANSI、JIS、DIN、GB、JB（特殊可按用户提供）
阀体材料		铸铁（HT200）、铸钢（ZG230~450）、铸不锈钢（ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti）
阀芯材料	硬密封	不锈钢（1Cr18ni9Ti、1Cr18Ni12MoTi）
	软密封	不锈钢镶嵌橡胶圈
压力平衡		不锈钢波纹管（DN15~125）、平衡膜片（DN150）

执行器

执行器编号	T06			T17
温度设定范围(℃)	-20~50	20~90	40~110	60~120
特殊温度设定(℃)	110~180	180~250		
温度保护	超值设定值100℃以内			
时间常数(S)	120			20
温包材料	铜镀镍			
毛细管长度	5，10，15米			

性能

设定值偏差		±1.5℃		
允许泄漏量（在规定实验条件下）	硬密封	4×0.01%阀额定容量		
	软密封	DN15~50	DN65~125	DN150~250
		10气泡/min	20气泡/min	40气泡/min

▶ The 80T01Y、80T01R self-operated temperature (heating type) control valve

▲ Summary

The 80T01Y/80T01R self-operated temperature（heating type） control valve is composed of the control valve anda temperature controller provided with fixed point control.
It is suitable for controling differential pressure in the pipes of non-crrosive liquids,gases and steams.when the temperature of the controlled mediums rises,the control valve is closed

The main features are as follows:

1.It has the pressure balancingfuncti on with high sensitivity.
2.Low noise, reliable performance, free of maintenance
3.The standard modular design is adopted.
4.It adopts the imported fixed point controller, which has the over temperature protection function withreliablequality.
5.Various combined controls can be carried out through the assemblies.

Technical parameters andperformances

Body

DN		DN15、20、25、32、40、50、65、80、100、125、150mm
PN		PN1.6、4.0MPa
Flange standard		ANSI、JIS、DIN、GB、JB(special standards can be offered according to user requirements)
Body material		Cast iron (HT200), cast steel (ZG230-450), cast stainless steel (ZG1Cr18Ni9Ti, ZG1Cr18Ni12Mo2Ti)
Plug material	Hard seal	Stainless steel (1Cr18Ni9Ti, 1Cr18Ni12Mo2Ti)
	Soft seal	Stainless steel embedded with rubber ring
Pressure balancing		Stainless steel bellows (DN15~125), balanced diaphragm (Dn150)

Actuator

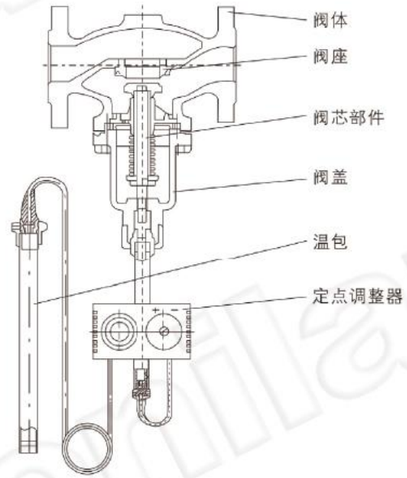
Actuator mode	T06			T17
Temperature setting range(℃)	-20~50	20~90	40~110	60~120
Special temperature setting(℃)	110~180	180~250		
Temperature protection	Exceeding the set value 100℃			
Time constant(S)	120			20
Temperature sensor material	Nickel-coated copper			
Capillary tube length	5, 10, 15m			

Performance

Set value error		±1.5℃		
Allowable leakage (under stipulated testingconditions)	Hard seal	4x0.01% valve rated capacity		
	Soft seal	DN15~50	DN65~125	DN150~250
		10 bubbles/min	20 bubbles/min	40 bubbles/min

Meisonilan®
Automation Instrument

▶ 80T01Y、80T01R 自力式温度（加热型）控制阀



允许工作温度

公称通径		15~150mm
密封型式	硬密封	≤150℃ 散热片≤200℃ PN16阀体加散热片≤300℃※；PN40阀体加散热片≤350℃※
	软密封	≤150℃

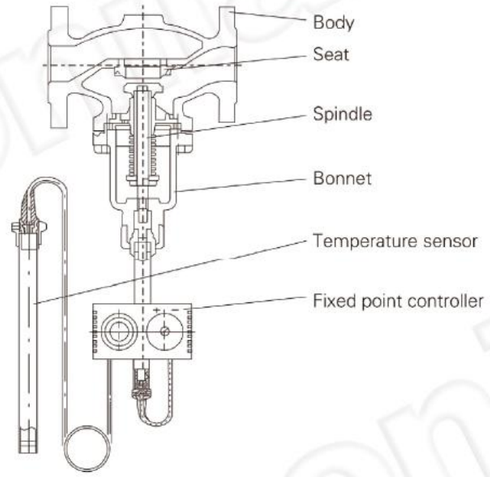
额定流量系数、噪音衡量系数、允许压差

公称通径DN		15	20	25	32	40	40	65	80	100	125	150
额定流量系数KvS		4	6.3	8	16	20	32	50	80	125	160	280
噪音衡量系数 Z值		0.6	0.6	0.6	0.55	0.55	0.5	0.5	0.45	0.4	0.35	0.3
允许压差 (Mpa)	PN16	1.6								1.5		1.2
	PN40	2.0										

工作原理

当被控对象温度低于设定温度时，温包内液体收缩，作用在执行器推杆上的力减小，阀芯部件在弹簧力的作用下使阀门打开，增加蒸汽和热油等加热介质的流量，使被控对象温度上升，直到被控对象温度到了设定值时，阀关闭，阀关闭后，被控对象温度下降，阀又打开，加热介质又进入热交换器，又使温度上升，这样使被控温度为恒定值。阀门开度大小与被控对象实际温度和设定温度的差值有关。

▶ The 80T01Y、80T01R self-operated temperature (heating type)control valve



Allowable working temperature

DN		15~125mm
Seal type	Hard seal	≤150℃ Cooling tank≤200℃ Cooling tank and heat sink≤350℃※
	Soft seal	≤150℃

Rated flow coefficient, noise measuring coefficient, allowable differential pressure

DN		15	20	25	32	40	40	65	80	100	125	150
Rated flow coefficient		4	6.3	8	16	20	32	50	80	125	160	280
Noise measuring coefficient Z value		0.6	0.6	0.6	0.55	0.55	0.5	0.5	0.45	0.4	0.35	0.3
Allowable differentia l pressure	PN16	1.6								1.5		1.2
	PN40	2.0										

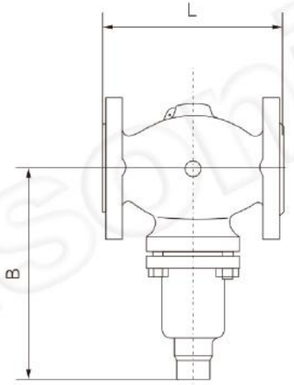
Working principle

When the temperature of the controlled object is lower than the set temperature, the liquid in the temperature sensor will contract, the force acted on the push rod of the actuator decreases, and the plug makes the valve open under the action of the spring force. The flow of steam, hot oil and other heating media is enhanced, so that the temperature of the controlled object rises. The valve will be closed when the temperature of the controlled object rises to the set value. After the valve is closed, the temperature of the controlled object falls and the valve is opened again. The heating media enter the heat exchanger and the temperature rises again, so as to make the temperature of the controlled object be a constant. The opening of the valve is related to the difference between the actual temperature of the controlled object and the set temperature.

Meisonilan®
Automation Instrument

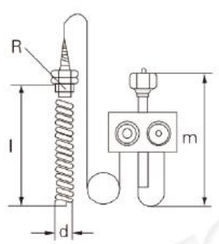
▶ 80T01Y、80T01R 自力式温度（加热型）控制阀

The 80T01Y、80T01R self-operated temperature (heating type) control valve

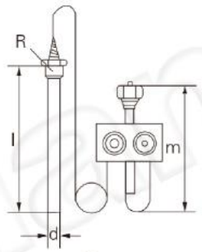


一、控制阀尺寸及重量 I. Dimensions and weight of control valve

DN	15	20	25	32	40	50	65	80	100	125	150
L(mm)	130	150	16	180	200	230	290	310	350	400	480
B(mm)	212	212	238	238	240	240	275	275	380	380	295
重量 Weight(kg)	6.2	6.7	9.7	13	14	17	29	33	60	70	80



T06



T17

二、执行器尺寸及重量 II. Dimensions and weight of actuator

型号Model	l(mm)	d(mm)	R(mm)	m	重量 Weight(kg)
T06	380	24	1"	280	3.0
T17	500	30	1"	280	3.5

执行器T06于T17的区别 Difference between actuator T06 and T17:

T06型温包与被控介质通过温包套管隔离开，即不直接与介质接触，利于维护，但反应速度较慢，适合控制液体介质；
T17型温包与被控介质直接接触，且感温面积大，因此反应速度快，但不利于维护，适合控制气体温度，也可用来控制液体温度。

The T06 model temperature sensor is isolated from the controlled medium through the temperature sensor sleeve, i.e., it does not contact the medium and it is easy to maintain. But the response is slow. It is suitable for controlling liquid media.
The T17 model temperature sensor directly contacts the controlled medium, and the temperature sensing area is large. Therefore the response is fast. But it is not easy to maintain. It is suitable for controlling gas temperature and liquid temperature.