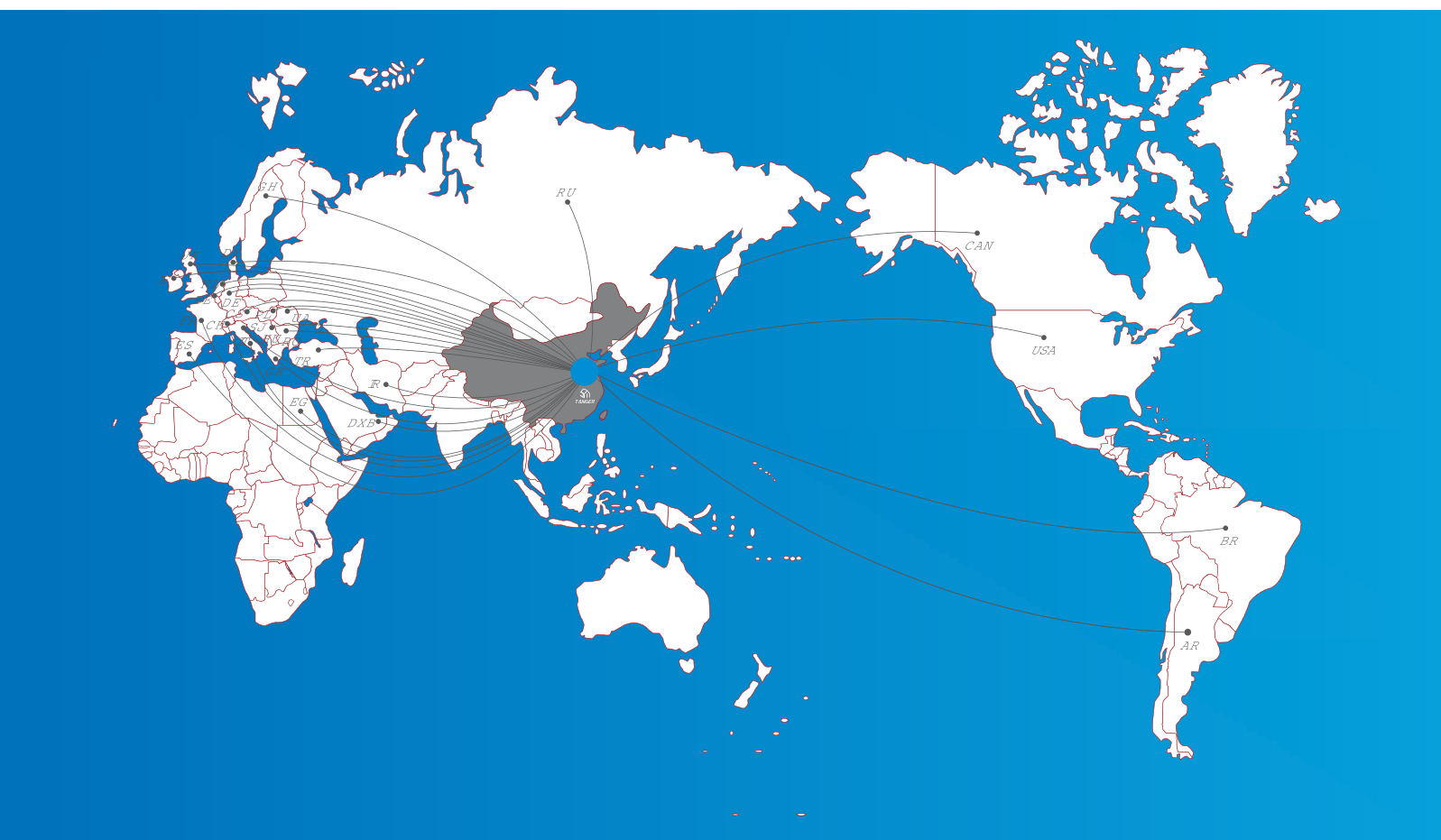




PRODUCT PROFILE

产品宣传册



THOMAS T INTELLIGENT TECHNOLOGY CO., LTD
WUXI HUISHAN AUTOMATIC CONTROLLER CO., LTD
Add:NO.18 Tianzhu Road, Hudai Town, Binhu District,
Wuxi(Jiangsu), China 214161

Tel: +86 510 83732153, Mobile/WhatsApp: +86 15861559175
E-mail: cindy@heatcool.cn
Website: www.heatcool.cn, www.thomast.com.cn



TANGER Website



HUAHONG Website



HUAHONG WeChat

本公司产品规格以实物为准，如有变更，不另行通知！

无锡市托马斯唐智能科技有限公司
THOMAS T INTELLIGENT TECHNOLOGY CO., LTD
WUXI HUISHAN AUTOMATIC CONTROLLER CO.,LTD



BUSINESS ◎ 目录
SYSTEM DIRECTORY

01

公司简介 03/04
COMPANY PROFILE

直行程电动执行器(ZEB) 09
ELECTRIC DRIVE LINEAR ACTUATOR

直行程电动执行器(ZED) 13/14
ELECTRIC DRIVE LINEAR ACTUATOR

角行程电动执行器(ZBK/ZBH/ZBR) 21/22
ELECTRIC ROTARY ACTUATOR

分水器 27/28
MANIFOLD

发展历程 05/06
DEVELOPMENT COURSE

配套阀门选型表 10/12
FITTING VALVE SELECTION CHART

角行程电动执行器(ZBC) 15/16
ELECTRIC ROTARY ACTUATOR

多回转电动执行器(ZBI/ZBF) 23/24
ELECTRIC MULTI-ROTATION ACTUATOR

集中控制盒 29
WIRING CENTER

电热执行器 07/08
ELECTRIC THERMAL ACTUATOR

直行程电动执行器(ZEA) 11
ELECTRIC DRIVE LINEAR ACTUATOR

角行程电动执行器(ZBA/BA/ZBD) 17/18
ELECTRIC ROTARY ACTUATOR

角行程电动执行器(ZBL) 25/26
ELECTRIC ROTARY ACTUATOR

02

电子房间温控 31/32/33/34
ELECTRONIC
ROOM THERMOSTAT

机械式房间温控 35
MECHANICAL
ROOM THERMOSTAT

03

电子管道温控 37
ELECTRIC PIPE THERMOSTAT

机械式管道温控 38
PIPE THERMOSTAT

04

恒温阀 41/42
TRV HEAD

电子阀门 43
ELECTRONIC THERMOSTATIC HEAD

阀体 45
THERMOSTATIC
VALVES

液阀芯 46
LIQUID SENSOR

05

超温保护泄压阀/炉门温控/PT安全阀 48
THERMAL SAFETY DRAIN SERIES/
DRAUGHT REGULATOR/TEMPERATURE
AND PRESSURE SAFETY RELIEF VALVE

回水温控箱/回水恒温阀 49
RETURN WATER TEMPERATURE
CONTROL BOX/RETURN WATER
THERMOSTATIC VALVE

06

毛细管温控 53/54/55/56
CAPILLARY THERMOSTAT

制冷及汽车空调用温控器 57
THERMOSTAT FOR REFRIGERATION
AND AUTOMOBILE AIR CONDITIONING

铜管组件 39
IMMERSION SLEEVE

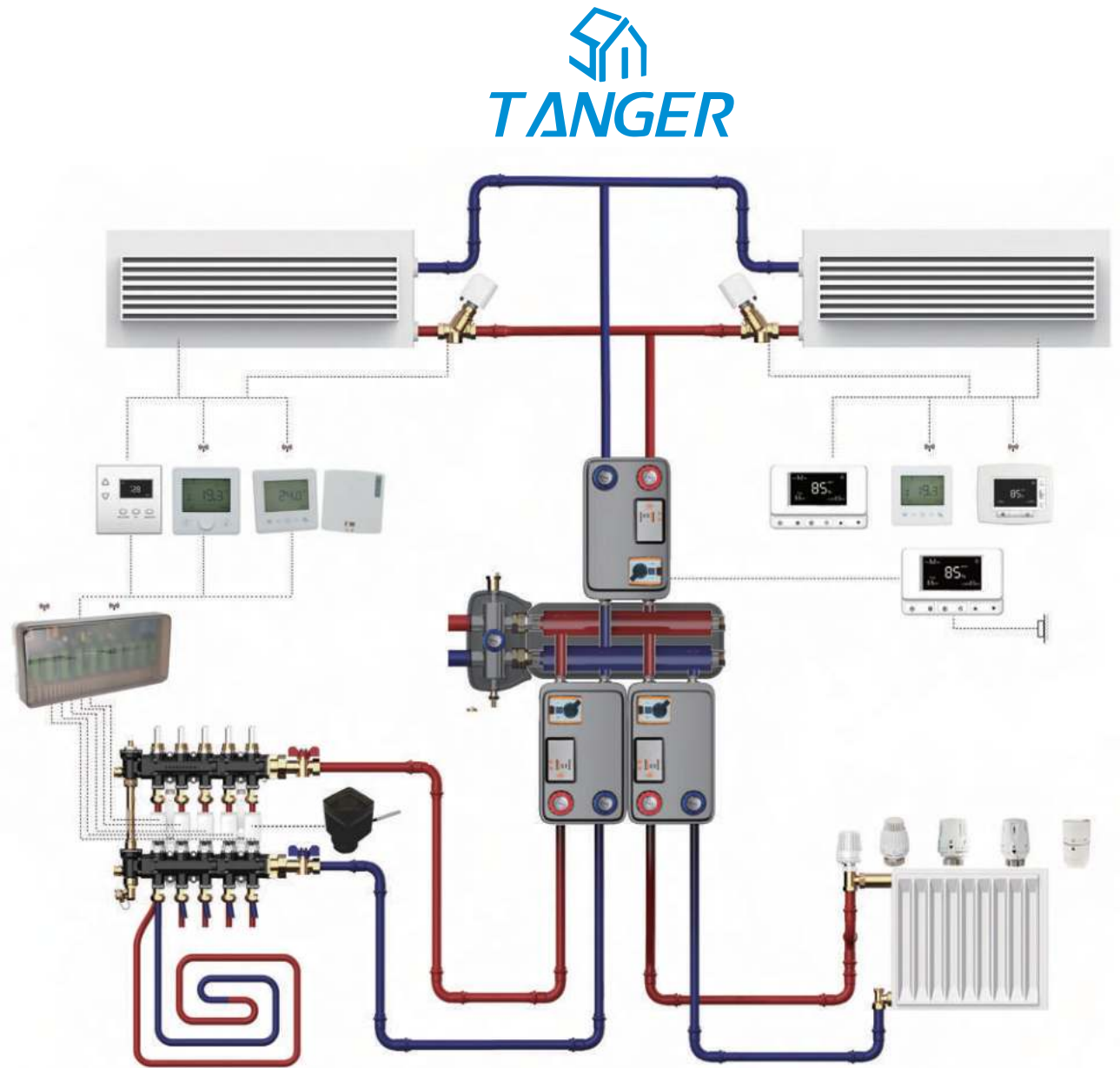
远程恒温控制阀 44
THERMOSTATIC HEAD
WITH REMOTE SENSOR

供热循环泵站/三通恒温混水阀/防霜温控 50/51
HEATING CIRCULATION PUMPING STATION
3-WAY THERMOSTATIC MIXING VALVE
ANTI-FROST THERMOSTAT

流量开关 58
FLOW SWITCH

FOUND 1988
铸造品质 · 诚信共赢

两联供
TWO CONTINUOUS SUPPLY





COMPANY PROFILE

公司简介

Thomas T Intelligent Technology Co., Ltd established in 1988. and located in Wuxi, Jiangsu, China.

It is a high-tech enterprise in intelligent control that integrates R&D, production, sales, and service.

We provides intelligent solutions for many customers in heating and cooling systems such as heating, central air-conditioning fan coil units, radiant floor heating, energy-saving control, industrial automation control, building smart home and building energy saving.

Our products are exported to more than 60 countries and have been widely praised and trusted by domestic and foreign users. We always adhere to customer demand and provide professional customized design services, covering ODM production and OEM production.

With more than 30 years of manufacturing experience, we have successfully launched Wuheng comfort system products, intelligent control actuators, analog quantities, proportional control, and other series of products.

Thank you very much for your attention to us, we will continue to work hard to provide you with better products and services. We look forward to further cooperation with you in the future .

托马斯唐---无锡市托马斯唐智能科技有限公司，始建于1988年，位于江苏无锡。

托马斯唐公司是集研发、生产、销售及服务于一体的智控领域高科技企业，旨在为供暖、空调、通风及净化行业，工业自动化控制及楼宇自控等智能管理领域提供全面的系统解决方案。

我们的产品远销 60 多个国家,得到国内、外用户的广泛赞誉和信赖,始终坚持以客户需求为导向，提供专业的定盖制化设计服务，涵盖 ODM生产和OEM生产。

凭借三十多年的工厂制造经验，我们成功推出了五恒舒适系统产品、智能控制执行器以及模拟量、等比例控制等系列产品。

我们将继续努力，为您提供更优质的产品和服务，未来期待与您的进一步的合作。



Thomas T 托马斯唐

欢迎来到托马斯唐智能科技有限公司，一家致力于智能控制领域的高科技企业。我们专注于无缝集成研发、生产、销售和服务，提供卓越的解决方案。

Welcome to Thomas T Intelligent Technology Co., Ltd, a pioneering high-tech enterprise dedicated to the realm of intelligent control. We specialize in seamlessly integrating research and development, production, sales, and service to deliver exceptional solutions.

Mission 使命

在托马斯唐，我们的使命是提供全面的系统解决方案，跨越各个领域，包括供暖、空调、通风、净化，工业自动化控制，和楼宇自动化。我们的目标是加强这些行业的智能管理。

At Thomas T, our mission is to provide comprehensive system solutions across various sectors, including heating, air conditioning, ventilation, purification, industrial automation control, and building automation. Our goal is to enhance intelligent management across these industries.

Expertise 专业知识

我们以专业的技术团队而自豪，他们以强大的研发能力和严格的质量控制而闻名。我们的专业知识确保我们提供创新和可靠的解决方案，以满足客户不断发展的需求。

We pride ourselves on our professional technical team, renowned for their robust R&D capabilities and stringent quality control. Our expertise ensures that we deliver innovative and reliable solutions to meet the evolving needs of our clients.

Global Reach and Partnerships 全球影响力和伙伴关系

凭借全球业务足迹，Thomas T与自动化行业内的许多知名企业保持着密切的合作关系。我们的合作伙伴关系建立在共同成长和创新的共同愿景之上。

With a global business footprint, Thomas T maintains close collaborations with many esteemed enterprises within the automation industry. Our partnerships are built on mutual growth and a shared vision for innovation.

Our Commitment 我们的承诺

我们致力于与我们的合作伙伴共同努力，打造一个以舒适、健康和节能为优先考虑的未来。我们的目标是共同创造一个更加可持续和智能的世界。加入我们的旅程，为智能控制和管理的未来带来革命性的变化。

We are committed to working alongside our partners to foster a future that prioritizes comfort, health, and energy efficiency. Together, we aim to create a more sustainable and intelligent world. Join us on our journey to revolutionize the future of intelligent control and management.

DEVELOPMENT HISTORY

发展历程



1988

1988年旧址
Former site in 1988



1990-1997

1992年评为“国家新产品”
In 1992, we awarded as
“National New Product” in 1992



1998-2001

1998年生产车间
Production workshop in 1998



2003-2017

2003旧址
Former site in 2003



高新技术企业

2018

荣获高新企业
We won the title of
“High-tech Enterprise”



2019

鉴定为“省重点推广应用的新技术新产品”
Our actuators have been identified as
“New technology and new product that
the province focuses on promot-ing new
applications”



2020-至今

2020年迁至新址
Relocated to new location
in 2020



1

电热执行器/直行程电动执行器/角行程电动执行器 Electric Thermal Actuator/Electric Drive Linear Actuator/Electric Rotary Actuator

舒适·节能

电热执行器/Electric Thermal Actuator	08
直行程电动执行器/Electric Drive Linear Actuator ZEB ZEA ZED	09
角行程电动执行器/Electric Rotary Actuator ZBA BA ZBC ZBD ZBK ZBH ZBR ZBL	16
多回转电动执行器/Electric Multi-Rotation Actuator ZBI ZBF	23

电热执行器 Electric Thermal Actuator



应用于地暖或中央空调水系统中，与房间温控器联动，控制阀门开启或关闭，从而达到控制室温的目的。
Applied in floor heating or central air-conditioning water system. It is linked with the room thermostat to control the opening or closing of the valve, to achieve the purpose of controlling the room temperature.

产品型号 Model	工作行程 Stroke	工作推力 Force	运行时间 Running time	规格 Specification	外形尺寸 Overall Dimension	防护等级 Protection level	断电后状态 Status after power-off
DR-09	3mm	90-125N	4.5mins	2-wire	41.5*71.3mm	IP42	常闭 NC
DR-10	3mm	90-125N	4.5mins	2 (4) -wire	39*74mm	IP44	常闭 NC
DF-110E	3mm	90-125N	4.5mins	2-wire	44.9*64.8mm	IP42	常闭/常开 NC/NO
DF-110H	3mm	90-125N	4.5mins	2-wire	41*64.8mm	IP44	常闭/常开 NC/NO
DR-16B	4/5mm	90-125N	4.5mins	2-wire	41.6*66mm	IP54	常闭/常开 NC/NO
DR-17A	4/5mm	90-125N	4.5mins	2 (4) -wire	51*41.6*64.6mm	IP54	常闭/常开 NC/NO
ZRE230B	4/5mm	90-125N	4.5mins	2-wire	45.5*64mm	IP54	常闭/常开 NC/NO
ZRD230B	4/5mm	90-125N	4.5mins	2-wire	45.5*64mm	IP54	常闭/常开 NC/NO
工作电压 Operating voltage: 24V/230V							
功率 Power consumption: 230V/2.5W 24V/3W							
安装螺母 Installation size: M30x1.5mm							



直行程电动执行器
Electric Drive Linear Actuator



电容复位型
Capacitive Reset Type



开关/调节型
Switch Type/ Adjustable Type



智能控制型
Intelligent Control

应用于地暖和中央空调水系统中，控制阀门的开启或关闭，有开关量控制、比例调节控制以及智能控制恒温进回水。
Applied in the floor heating and central air conditioning water system, control the opening or closing of the valve, there are ON-OFF control type, proportion adjustment control type and intelligent control of constant temperature inlet and return water type.

技术参数表
Technical Parameter

型号 Model	电源电压 Power supply	屏幕 Display screen	Rs485	速度 Speed	工作推力 Force	电线规格 Cable specifications	控制方式及功能 Control mode and function
ZEB-C	230V/24V			5s/mm	120N	2x0.5mm ² 2x0.75mm ²	电容复位, 两线一控 Capacitor reset, 2-wire single control
ZEB-K	230V/24V			5s/mm	120N	3x0.5mm ²	三线一控/三线两控 3-wire single control/3-wire dual control
ZEB-A	230V/24V			5s/mm	120N	4x0.5mm ² 3x0.5mm ²	0(2)-10V/0(4)-20mA输入 0(2)-10V/0(4)-20mA Input
ZEB-F	230V/24V			5s/mm	120N	5x0.35mm ² 4x0.5mm ²	0(2)-10V/0(4)-20mA输入+输出 0(2)-10V/0(4)-20mA Input+Output
ZEB-WP	230V/24V	✓		5s/mm	120N	2x0.75mm ²	水温控制 (1-100℃可调) Water temperature control (1-100℃ adjustable)
ZEB-DP	230V/24V	✓		5s/mm	120N	2x0.75mm ²	温差控制 (1-100℃可调) Temperature difference control (1-100℃ adjustable)
ZEB-WM	24V		✓	5s/mm	120N	4x0.5mm ²	水温控制 (通讯进行开度百分比, 水温度1-100℃可调) Water temperature control (Communication for open percentage, Water temperature adjustable 1-100℃)
ZEB-DM	24V		✓	5s/mm	120N	4x0.5mm ²	温差控制 (通讯进行开度百分比, 温差1-100℃可调) Temperature difference control (Communication for open percentage, Temperature difference adjustable 1-100℃)
ZEB-WMP	24V	✓	✓	5s/mm	120N	4x0.5mm ²	水温控制 (通讯进行开度百分比, 水温度1-100℃可调) Water temperature control (Communication for open percentage, Water temperature adjustable 1-100℃)
ZEB-DMP	24V	✓	✓	5s/mm	120N	4x0.5mm ²	温差控制 (通讯进行开度百分比, 温差1-100℃可调) Temperature difference control (Communication for open percentage, Temperature difference adjustable 1-100℃)
功率 Power consumption: 运行 Operation 2W, 保持 Standby 0.2W							
外形尺寸 Dimension: 69mmx38mmx74mm(ZEB-C); 其他型号 Other: 69mmx38mmx63mm							
安装螺母 Installation size: M30x1.5							
防护等级 Protection: IP54							
最大行程 Maximum stroke: 6mm							

配套阀门选型表
Fitting Valve Selection Chart



DN20-AT2



DN20-AT3



DN20-AT4



VB12I20A



VB10I20C



VB10I20A

图片 Picture	型号 Model	名称 Name	螺纹 Screw	KVS	行程 Stroke	关断压差 Closing differential pressure	外形尺寸(mm) Dimension
	VB10I20A	大流量阀 High flow valve	Rp3/4	5.2	4mm	0.4 MPa	98x34.4x65.5
	VB10I20C	大流量阀 High flow valve	Rp3/4	5.2	4mm	0.4 MPa	98x34.4x65.5
	VB12I20A	大流量阀 High flow valve	Rp3/4	4.5	4mm	0.4 MPa	70x34.4x60
	DN20-AT2	两通调节阀 Two-way control valve	G3/4	2.2	4mm	0.4 MPa	54x28x48.5
	DN20-AT3	三通阀 Three-way valve	G3/4	2.2	3mm	0.1 MPa	54x30x65
	VB28I20A	截止阀 stop valve	Rp3/4	3.0	3mm	0.4 MPa	59x32x58
	VB28I25A	截止阀 stop valve	Rp1	3.2	3mm	0.4 MPa	73x40x62
阀体承压 Valve body pressure: 1.6 MPa							
介质温度 Medium temperature: 5~100℃							



TANGER 11

直行程电动执行器

Electric Drive Linear Actuator



开关型
Switch Type

技术参数

Technical Parameter

型号 Model	工作电源 Power supply	功率 Power consumption	运行时间 Running time	工作推力 Force	工作行程 Stroke	电线规格 Wire specifications	控制方式及 功能 Control mode and function
ZEA230K01	230VAC/24VAC	3W	25s	120N	5.5mm	3x0.5mm ²	三线两控 3-wire dual control
ZEA24K01	230VAC/24VAC	3W	25s	120N	5.5mm	3x0.5mm ²	
ZEA230K02	230VAC/24VAC	3.5W	25s	120N	5.5mm	3x0.5mm ²	三线一控 3-wire single control
ZEA24K02	230VAC/24VAC	3.5W	25s	120N	5.5mm	3x0.5mm ²	
安装螺母 Installation size:M30x1.5							
防护等级 Protection:IP42							
断电后状态 Status after power-off:常开或常闭 NO or NC							

TANGER 12

配套动态平衡阀选型表

PICV



阀门不受系统压差波动的影响，能够在任意流量设定范围内保证全程的调节控制。通过优化的调节控制，阀门能够减少系统过流和水泵负荷，从而显著降低整个系统的能耗。阀门的快速响应和自动调节控制大大提高了系统的稳定性，使得温差得以最大化。

The valve is not affected by fluctuations in system pressure difference and can ensure full-stroke modulation control within any flow setting range. By optimizing modulation control, the valve reduces system overflow and pump load, significantly lowering the overall energy consumption of the system. The valve's quick response and automatic modulation control greatly enhance system stability, maximizing the temperature differential.

图片 Picture	型号 Model	名称 Name	螺纹 Screw	KVS	行程 Stroke	关断压差 Closing differential pressure	外形尺寸(mm) Dimension
	VB17D20A	动态平衡阀 Dynamic balancing valve	Rp3/4	2.9	3mm	0.4 MPa	76x40x78
	VB17D25A	动态平衡阀 Dynamic balancing valve	Rp1	2.9	3mm	0.4 MPa	83x41.5x89
	VB17D20B	动态平衡阀 Dynamic balancing valve	Rp3/4	2.9	3mm	0.4 MPa	83x40x110
	VB17D25B	动态平衡阀 Dynamic balancing valve	Rp1	2.9	3mm	0.4 MPa	83x41.5x125
	VB17D20C	动态平衡阀 Dynamic balancing valve	Rp3/4	2.9	3mm	0.4 MPa	110x40x81.5
	VB43D20A	动态平衡阀 Dynamic balancing valve	Rp3/4	1.5	4mm	0.4 MPa	93x42x76
阀体承压 Valve body pressure: 1.6 MPa							
介质温度 Medium temperature: 5~100℃							



直行程电动执行器
Electric Drive Linear Actuator

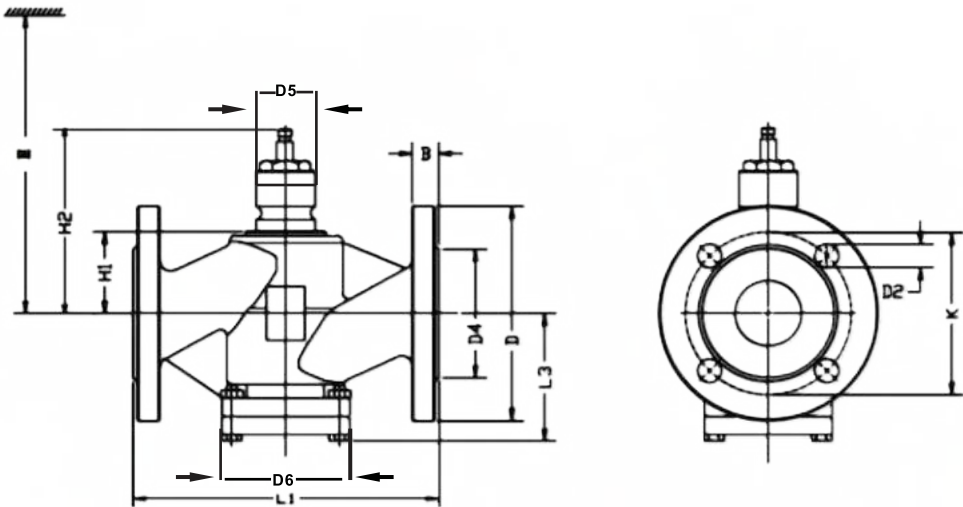


智慧控制型直行程执行器，控制端按键调节带屏显示，开阀位置、运行方向、运行速率等参数可视化。动力源由直流无刷电机驱动，高寿命、高负载、低功率、低噪音，工作节能，控制精度高，动力输出更加稳定、迅速。内部负载结构采用高等级轴承保证传动精度，高强度合金齿轮保证工作寿命。与阀门配合的连接接口采用合金铸造工艺，强度牢固可靠，适配多种型号阀门接口，可应用于各款大型阀门的精准控制和调节。

Intelligent control type linear stroke actuator, control port button adjustment with screen display, valve opening position, operation direction, operation speed and other parameters visualization. The power source is driven by DC brushless motor, with high life, high load, low power, low noise, energy saving, high control accuracy, and more stable and rapid power output. The internal load structure uses high-gradebearings to ensure transmission accuracy, and high-strength alloy gears to ensure working life. The connection interface matched with the valve is made of alloy casting technology, with solid and reliable strength. It is suitable for various types of valve interfaces, and can be used for precise control and adjust-ment of various large valves.

技术参数
Technical Parameter

型号 Model	电源电压 Power supply	屏幕 Display screen	Rs485	速度 Speed	工作推力 Force	电线规格 Cable specifications	控制方式及功能 Control mode and function
ZED-FP	24V	✓		0.1–0.3mm/s (可调) (adjustable)	1000N/ 1500N/ 2500N/ 4500N	4x0.5mm ²	三线两控，0–10V/4–20mA输入+输出 3–wire dual control, 0–10V/4–20mA Input+Output
ZED-DMP	24V	✓	✓	0.1–0.3mm/s (可调) (adjustable)	1000N/ 1500N/ 2500N/ 4500N	4x0.5mm ²	温差通讯型 (集通讯控制，回温控制，温差控制于一体) Temperature difference control type (Integration of Communication control, Return water temperature control, Temperature difference control)
ZED-YMP	24V	✓	✓	0.1–0.3mm/s (可调) (adjustable)	1000N/ 1500N/ 2500N/ 4500N	4x0.5mm ²	压差通讯型 (集通讯控制，压力控制，压差控制于一体) Differential pressure communication type (Integration of communication control, pressure control and differential pressure control)
ZED-ZMP	24V	✓	✓	0.1–0.3mm/s (可调) (adjustable)	1000N/ 1500N/ 2500N/ 4500N	4x0.5mm ²	智慧型 (集通讯控制，0–10V/4–20mA输入+输出，回温 控制，温差控制，压力控制，压差控制流量于一体) Intelligent (Integration of communication control, 0–10V/4–20mA input + output, temperature control, temperature control, pressure control, differential pressure control flow)
功率 Power consumption: 1000N 运行 Operating 2W, 保持 Standby 1W ; 1500N 运行 Operating 4W, 保持 Standby 1W; 2500N 运行 Operating 5W, 保持 Standby 1W; 4500N 运行 Operating 7W, 保持 Standby 1W;							
外形尺寸 Dimension: 150mm*130mm*(275.5mm), 产品高度随安装高度变化							
安装螺母 mounting nut: 抱箍式 Clamp							
防护等级 Protection: IP54							
最大行程 Maximum stroke: 52mm(自适应)							



型号 Model	VB51L 40A	VB51L 50A	VB51L 65A	VB51L 80A	VB51L 100A	VB51L 125A	VB51L 150A	VB51L 200A	VB51L 250A	VB51L 300A
规格 Norm	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
D(mm)	150	165	185	200	220	250	285	340	390	440
D2(mm)	4–18	4–18	4–18	8–18	8–18	8–18	8–22	12–22	12–22	12–22
D4(mm)	84	99	118	132	156	184	211	266	319	378
D5(mm)	10	10	10	10	10	10	10	10	10	10
D6(mm)	44	44	44	44	44	44	44	44	44	44
K(mm)	110	125	145	160	180	210	240	295	355	410
L1(mm)	195	195	220	245	245	320	345	400	450	500
L3(mm)	83	83	100	115	115	150	150	195	260	310
H2(mm)	133	133	145	155	155	185	185	220	391	416
KVS	25	40	63	90	150	240	270	330	/	/
重量 KG	7.9	7.9	10.8	13.5	14.5	25	34	50	70	92



TANGER 15

角行程电动执行器

Electric Rotary Actuator



开关/调节型
Switch Type/ Adjustable Type

此产品适用于快接式阀门，直压式安装快捷方便，体积窄小，反应迅速。
With compact design and snap-assembly, the ZBC series electric rotary actuators are suitable for quick-connect valves.

技术参数

Technical Parameter

型号 Model	电压 Power supply	工作扭矩 Working torque	运行时间 Running time	电线规格 Cable specifications	功能 Function
ZBC-K	230V/24V	2N.m	20s/45s	3*0.5mm ² 3*0.5mm ²	三线一控/三线两控 3-wire single control/3-wire dual control
ZBC-A	230V/24V	2N.m	20s/45s	3*0.5mm ² 4*0.5mm ²	0-10V 输入 0-10V Input
ZBC-F	230V/24V	2N.m	20s/45s	4*0.5mm ² 5*0.35mm ²	0-10V 输入+输出 0-10V Input + output
功率 Power consumption: 运行 Working:2W; 保持 Standby:0.5W					
安装方式 Installation method: 卡接或直压 Clamp or Snap-assembly					
外形尺寸 Dimension: 98mm*45mm*60mm					
防护等级 Protection: IP42					
旋转角度 Rotation angle: 90°					

配套阀门选型表

Fitting Valve Selection Chart



VB19F20B



VB18F20B

技术参数

Technical Parameter

图片 Picture	型号 Model	名称 Name	螺纹 Thread	Kvs	最大关断压差 Max. Shutdown Differential Pressure	最大工作压力 Max.working pressure	外形尺寸 Dimension mm
	VB19F20B	两通球阀（直插式） Two-way ball valve (Snap-assembly)	Rp 3/4	5.4	5bar	25bar	63*33*49
	VB18F20B	三通球阀（直插式） Three-way ball valve (Snap-assembly)	Rp 3/4	5.4	5bar	25bar	63*52*50
	VB19F20A	两通球阀（卡接式） Two-way ball valve (clamp)	Rp 3/4	5.4	5bar	25bar	63*34*51
	VB18F20A	三通球阀（卡接式） Three-way ball valve (clamp)	Rp 3/4	5.4	5bar	25bar	63*52*50
	VB24F15A	两通球阀（直插式） Two-way ball valve (Snap-assembly)	Rp 1/2	4.2	1bar	25bar	56*30*46
耐温 Temperature resistance: 5~100℃							



角行程电动执行器
Electric Rotary Actuator



此产品适用于地暖和中央空调中水系统阀门的开关控制，可应用在不同款式的两通和三通阀门上，最大可适配DN50的阀门。在支持电压调节、温度控制、温差控制等功能的同时，可选择增加PCT加热、水泵控制和RS485通讯功能。

The ZBA series electric ball valve actuators are used to control the opening/closing of different 2–way and 3–way valves(up to DN50) in the water system of under–floor heating and central air conditioning. While supporting voltage regulation, temperature control, tempera–ture difference control and other functions, PCT heating, water pump control and RS485 communication functions can be added.

技术参数
Technical Parameter

型号 Model	电源电压 Power supply	屏幕 Display screen	Rs485	运行时间 Run time	工作扭矩 Working torque	电线规格 Cable specifications	控制方式及功能 Control mode and function
ZBA–C	230V/24V			30s/60s	10N.m	2x0.75mm ²	电容复位, 两线一控 Capacitor reset, 2–wire single control
ZBA–K	230V/24V			30s/60s	10N.m	3x0.5mm ²	三线一控/三线两控 3–wire single control/3–wire dual control
ZBA–A	230V/24V			30s/60s	10N.m	4x0.5mm ² 3x0.5mm ²	0(2)–10V/0(4)–20mA输入 0(2)–10V/0(4)–20mA Input
ZBA–AP	230V/24V	✓		30s–150s (可调) (adjustable)	10N.m	4x0.5mm ² 3x0.5mm ²	0(2)–10V/0(4)–20mA输入 0(2)–10V/0(4)–20mA Input
ZBA–F	230V/24V			30s/60s	10N.m	5x0.35mm ² 4x0.5mm ²	0(2)–10V/0(4)–20mA输入+输出 0(2)–10V/0(4)–20mA Input+Output
ZBA–FP	230V/24V	✓		30s–150s (可调) (adjustable)	10N.m	5x0.35mm ² 4x0.5mm ²	0(2)–10V/0(4)–20mA输入+输出 0(2)–10V/0(4)–20mA Input+Output
ZBA–WP	24V	✓		30s–150s (可调) (adjustable)	10N.m	2x0.75mm ²	水温控制 (1–100℃可调) Water temperature control (1–100℃ adjustable)
ZBA–DP	24V	✓		30s–150s (可调) (adjustable)	10N.m	2x0.75mm ²	温差控制 (1–100℃可调) Temperature difference control (1–100℃ adjustable)
ZBA–WM	24V		✓	30s–150s (可调) (adjustable)	10N.m	4x0.5mm ²	水温控制 (通讯进行开度百分比, 水温度1–100℃可调) Water temperature control (Communication for open percentage, Water temperature adjustable 1–100℃)
ZBA–DM	24V		✓	30s–150s (可调) (adjustable)	10N.m	4x0.5mm ²	温差控制 (通讯进行开度百分比, 温差1–100℃可调) Temperature difference control (Communication for open percentage, Temperature difference adjustable 1–100℃)
ZBA–WMP	24V	✓	✓	30s–150s (可调) (adjustable)	10N.m	4x0.5mm ²	水温控制 (通讯进行开度百分比, 水温度1–100℃可调) Water temperature control (Communication for open percentage, Water temperature adjustable 1–100℃)
ZBA–DMP	24V	✓	✓	30s–150s (可调) (adjustable)	10N.m	4x0.5mm ²	温差控制 (通讯进行开度百分比, 温差1–100℃可调) Temperature difference control (Communication for open percentage, Temperature difference adjustable 1–100℃)
功率 Power consumption: 运行 Operation 5W, 保持 Standby 1W							
外形尺寸 Dimension: 93mmx78.5mmx90mm							
防护等级 Protection: IP54							
旋转角度 Rotation angle: 90°							

角行程电动执行器
Electric Rotary Actuator



技术参数
Technical Parameter

产品型号 Model	电源电压 Power supply	电线规格 Cable specifications	运行时间 Run time	工作扭矩 Working torque	控制方式及功能 Control mode and function
BA24K	24V	3x0.5mm ²	45s	4N.m	三线一控 3–wire single control
BA230K	230V	3x0.5mm ²	45s	4N.m	三线一控/三线两控 3–wire single control / 3–wire dual control
BA24A	24V	3x0.5mm ²	45s	4N.m	0–10V 输入 0–10V Input
BA24F	24V	4x0.5mm ²	45s	4N.m	0–10V 输入+输出 0–10V Input + output
功率 Power consumption: 5W; 防护等级 Protection: IP42; 旋转角度 Rotation angle: 90°					

角行程电动执行器
Electric Rotary Actuator



技术参数
Technical Parameter

产品型号 Model	电压 Power supply	工作扭矩 Working torque	运行时间 Run time	电线规格 Cable specifications	控制方式及功能 Control mode and function
ZBD–K	24V/230V	6N.m	15s	3*0.5mm ² 3*0.5mm ²	三线一控/三线两控 3–wire single control / 3–wire dual control
功率 Power consumption: 5W					
外形尺寸 Dimension: 87mm*60mm*80mm					
安装螺母 Mounting nut: M33*1.5/ M36*1.5					
防护等级 Protection: IP42					
旋转角度 Rotation angle: 90°					

TANGER 21

角行程电动执行器

Electric Rotary Actuator



ZBK

技术参数

Technical Parameter

型号 Model	电源电压 Power supply	屏幕 Display screen	Rs485	旋转角度 Rotation angle	工作扭矩 Working torque	防护等级 Protection	控制方式及功能 Control mode and function
ZBK-FP	24V	✓		90°	90N.m	IP54	三线两控，0-10V/4-20mA输入+输出 3-wire dual control, 0-10V/4-20mA Input+Output
ZBK-DMP	24V	✓	✓	90°	90N.m	IP54	温差通讯型 Temperature difference control type
ZBK-YMP	24V	✓	✓	90°	90N.m	IP54	压差通讯型 Differential pressure communication type
ZBK-ZMP	24V	✓	✓	90°	90N.m	IP54	智慧型 Intelligent
功率 Power consumption: 运行 Working 8W; 待机 Standby 2W							
运行时间 Running time : 45s~200s							
产品尺寸 Product size: 239mm*140mm*125mm							
适配阀门 Fitting Valve: 球阀 Ball Valves, 蝶阀 Butterfly Valves. (阀门口径 Valve Caliber: DN40-DN150)							

角行程电动执行器

Electric Rotary Actuator



ZBH

技术参数

Technical Parameter

型号 Model	电源电压 Power supply	屏幕 Display screen	Rs485	旋转角度 Rotation angle	工作扭矩 Working torque	防护等级 Protection	控制方式及功能 Control mode and function
ZBH-FP	24V	✓		90°	168N.m	IP54	三线两控，0-10V/4-20mA输入+输出 3-wire dual control, 0-10V/4-20mA Input+Output
ZBH-DMP	24V	✓	✓	90°	168N.m	IP54	温差通讯型 Temperature difference control type
ZBH-YMP	24V	✓	✓	90°	168N.m	IP54	压差通讯型 Differential pressure communication type
ZBH-ZMP	24V	✓	✓	90°	168N.m	IP54	智慧型 Intelligent
功率 Power consumption: 运行 Working 40W; 待机 Standby 5W							
运行时间 Running time : 45s~200s							
安装方式 Installation: 法兰式 Flange connection							
适配阀门 Fitting Valve: 球阀 Ball Valves, 蝶阀 Butterfly Valves. (阀门口径 Valve Caliber: DN40-DN150)							

TANGER 22

工业级角行程执行器

Industrial Angle Stroke Actuator



50N.m



100N.m



200N.m



500 N.m

ZBR

智慧控制型角行程执行器。控制端可选择带屏款按键调节控制, 开阀位置、运行方向、运行速率等参数可视化。动力源由直流无刷电机驱动, 高寿命、低功率、低噪音, 工作节能, 控制精度高, 动力输出更加稳定、迅速。内部设计采用行星齿轮及涡轮蜗杆机构, 并搭配高强度合金材质, 可保证高负载下的产品可靠运行及长寿命要求。与阀门配合的连接接口采用合金铸造工艺, 强度牢固可靠。适配多种型号阀门接口, 可应用于各款大型阀门的精准控制和调节。

Intelligent control type angle stroke actuator. The control side can choose to adjust the control with the screen model key, and visualize the parameters such as opening valve position, running direction, running rate, and so on. The power source is driven by DC brush less motor, high life, low power, low noise, energy-saving work, high control precision, more stable and rapid power output. The internal design adopts planetary gear and turbine worm gear mechanism, and with high strength alloy material, which can ensure the reliable operation and long service life of the product under high load. The internal design adopts planetary gear and worm gear mechanism with high strength alloy material. The connecting interface with the valve adopts alloy casting technology, which is strong and reliable. It is suitable for a variety of valve interfaces, and can be applied to the precise control and adjustment of various types of large valves. The valve interface is suitable for various types of valves, and can be applied to the precise control and adjustment of various types of large valves.

技术参数

Technical Parameter

型号 Model	电源电压 Power supply	屏幕 Display screen	Rs485	运行时间 Running time	工作扭矩 Working torque	电线规格 Cable specifications	控制方式及功能 Control mode and function
ZBR-FP	24V	✓		30s	50N.m	4x0.5mm ²	三线两控, 0-10V/4-20mA输入+输出 3-wire dual control, 0-10V/4-20mA Input+Output
ZBR-DMP	24V	✓	✓	30s	50N.m	4x0.5mm ²	温差通讯型 (集通讯控制,回温控制,温差控制于一体) Temperature difference control type (Integration of Communication control, Return water temperature control, Temperature difference control)
ZBR-YMP	24V	✓	✓	30s	50N.m	4x0.5mm ²	压差通讯型 (集通讯控制,压力控制,压差控制于一体) Differential pressure communication type (Integration of communication control, pressure control and differential pressure control)
ZBR-ZMP	24V	✓	✓	30s	50N.m	4x0.5mm ²	智慧型 (集通讯控制, 0-10V/4-20mA输入+输出, 回温 控制, 温差控制, 压力控制, 压差控制流量于一体) Intelligent (Integration of communication control, 0-10V/4-20mA input + output, temperature control, temperature control, pressure control, differential pressure control flow)
功率 Power consumption: 运行 Operating 8W, 保持 Standby 1W							
外形尺寸 Dimension: 150mm*130mm*145mm							
安装方式 Installation: 卡接式 Clamp							
防护等级 Protection: IP54							
旋转角度 Rotation angle: 90°							
产品尺寸 Product size:135mm*90mm*90mm (50N.m); 其他 Other: 待开发 To be developed (100N.m,200N.m,500N.m)							

多回转电动执行器
Electric Multi-Rotation Actuator



ZBI

智慧控制型多回转执行器。控制端可选择带屏款按键调节控制，开阀位置、运行方向、运行速率等参数可视化。动力源由直流无刷电机驱动，高寿命、高负载、低功率、低噪音，工作节能，控制精度高，动力输出更加稳定、迅速。内部负载结构采用高强度合金齿轮保证工作寿命。与阀门配合的连接接口采用合金铸造工艺，强度牢固可靠。适配多种型号阀门接口，可应用于各款大型阀门的精准控制和调节。

Intelligent control type Multi-Rotation actuator. The control part can choose button adjustment control with the screen, and the parameters such as valve opening position, running direction, and running speed can be visualized. The power source is driven by a direct-current brushless motor, with long life, high load, low power, low noise, energy saving, high control precision, and more stable and rapid power output. The internal load structure adopts high-strength alloy gears to ensure the working life. The connection interface matched with the valve adopts alloy casting process, and the strength is firm and reliable. It is suitable for various types of valve interfaces and can be applied to the precise control and adjustment of various large valves.

技术参数
Technical Parameter

型号 Model	电源电压 Power supply	屏幕 Display screen	Rs485	运行速度 Running speed	工作扭矩 Working torque	控制方式及功能 Control mode and function
ZBI-FP	24V	✓		0.3mm/s (可调) (adjustable)	7N.m	三线两控，0-10V/4-20mA输入+输出 3-wire dual control, 0-10V/4-20mA Input+Output
ZBI-DMP	24V	✓	✓	0.3mm/s (可调) (adjustable)	7N.m	温差通讯型 (集通讯控制, 回温控制, 温差控制于一体) Temperature difference control type (Integration of Communication control, Return water temperature control, Temperature difference control)
ZBI-YMP	24V	✓	✓	0.3mm/s (可调) (adjustable)	7N.m	压差通讯型 (集通讯控制,压力控制,压差控制于一体) Differential pressure communication type (Integration of communication control, pressure control and differential pressure control)
ZBI-YMP	24V	✓	✓	0.3mm/s (可调) (adjustable)	7N.m	智慧型 (集通讯控制, 0-10V/4-20mA输入+输出, 回温控制, 温差控制, 压力控制, 压差控制流量于一体) Intelligent (Integration of communication control, 0-10V/4-20mA input + output, temperature control, temperature control, pressure control, differential pressure control flow)
功率 Power consumption: 运行 Operating 13W, 保持 Standby 2W;						
外形尺寸 Dimension: 140mm*239mm*104.8mm						
安装方式 Installation: 法兰式 Flange connection						
防护等级 Protection: IP54						
最大行程 Maximum stroke: 52mm(自适应)						

多回转电动执行器
Electric Multi-Rotation Actuator



ZBF

智慧控制型多回转执行器。此系列产品可传输出10Nm的扭矩作为阀门的控制端，可直接应用于水系统中的多回转阀门的控制与调节。可接受四种形式的控制方案，从而做到阀门中介质流量的调节，达到精准控制系统中流量和压差的目的。

Intelligent control type Multi-Rotation actuator. This series of products can transmit a torque of 10Nm as the control end of the valve and can be directly applied to the control and adjustment of multi-turn valves in water systems. Four types of control schemes are acceptable. To adjust the medium flow in the valve and achieve the purpose of accurately control the flow and pressure difference in the system.

技术参数
Technical Parameter

型号 Model	电源电压 Power supply	屏幕 Display screen	Rs485	运行时间 Running time	工作扭矩 Working torque	电线规格 Cable specifications	控制方式及功能 Control mode and function
ZBF-FP	24V	✓		15-45s	10N.m	4x0.5mm ²	三线两控，0-10V/4-20mA输入+输出 3-wire dual control, 0-10V/4-20mA Input+Output
ZBF-DMP	24V	✓	✓	15-45s	10N.m	4x0.5mm ²	温差通讯型 (集通讯控制,回温控制,温差控制于一体) Temperature difference control type (Integration of Communication control, Return water temperature control, Temperature difference control)
ZBF-YMP	24V	✓	✓	15-45s	10N.m	4x0.5mm ²	压差通讯型 (集通讯控制,压力控制,压差控制于一体) Differential pressure communication type (Integration of communication control, pressure control and differential pressure control))
ZBF-ZMP	24V	✓	✓	15-45s	10N.m	4x0.5mm ²	智慧型 (集通讯控制, 0-10V/4-20mA输入+输出, 回温控制, 温差控制, 压力控制, 压差控制流量于一体) Intelligent (Integration of communication control, 0-10V/4-20mA input + output, temperature control, temperature control, pressure control, differential pressure control flow)
功率 Power consumption: 运行 Operating 7W, 保持 Standby 1W							
外形尺寸 Dimension: 150mm*130mm*145mm							
安装方式 Installation: 卡接式 Clamp							
防护等级 Protection: IP54							
旋转角度 Rotation angle: 90°							



TANGER 25

角行程电动执行器

Electric Rotary Actuator



自动控制模式(温度、温差)下, 执行器的实际运行逻辑基于PID控制算法原理进行控制, 每隔一段时间动作一定开度,直至阀门开度逐步稳定在所需的预设值, 间隔时间与运行距离可通过RS485远程进行更改,出厂默认20分钟。高寿命, 高节能, 低功率, 低噪音, 开阀位置精准检测, 扭矩控制稳定, 不损伤阀门, 节能外转子无刷电机提供动力源, 带参数设定及阀门行程记忆功能。

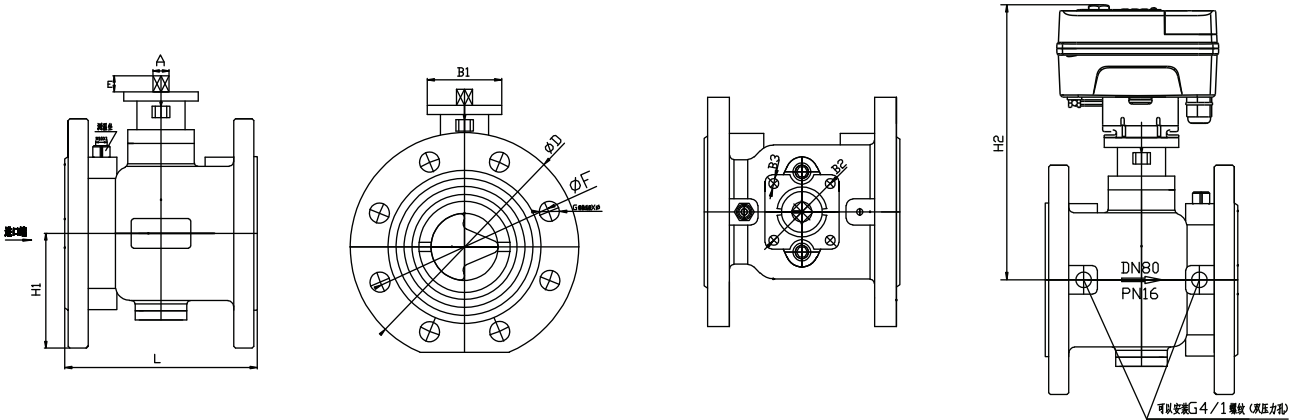
In the automatic control mode (temperature, temperature difference), the actual operation logic of the actuator is controlled by the algorithm principle based on PID control. The valve will be opened to certain position at intervals until the opening degree is gradually stabilized at the required preset value. The interval time and running distance can be changed remotely through RS485, and the factory default is 20 minutes. Low noise and long life, Accurate opening detection, Stable torque control, don't damage valve, Energy-saving brushless motor with external rotor, Low power consumption and high energy-saving, With parameter setting and valve stroke memory functions.

技术参数

Technical Parameter

型号 Model	电源电压 Power supply	屏幕 Display screen	Rs485	运行时间 Running time	工作扭矩 Working torque	电线规格 Cable specifications	控制方式及功能 Control mode and function
ZBL-FP	24V	✓		60s (可调) (adjustable)	10N.m 25N.m 50N.m	4x0.5mm ²	三线两控, 0-10V/4-20mA输入+输出 3-wire dual control, 0-10V/4-20mA Input+Output
ZBL-DMP	24V	✓	✓	60s (可调) (adjustable)	10N.m 25N.m 50N.m	4x0.5mm ²	温差通讯型 (集通讯控制, 回温控制, 温差控制于一体) Temperature difference control type (Integration of Communication control, Return water temperature control, Temperature difference control)
ZBL-YMP	24V	✓	✓	60s (可调) (adjustable)	10N.m 25N.m 50N.m	4x0.5mm ²	压差通讯型 (集通讯控制, 压力控制, 压差控制于一体) Differential pressure communication type (Integration of communication control, pressure control and differential pressure control))
ZBL-ZMP	24V	✓	✓	60s (可调) (adjustable)	10N.m 25N.m 50N.m	4x0.5mm ²	智慧型 (集通讯控制, 0-10V/4-20mA输入+输出, 回温控制, 温差控制, 压力控制, 压差控制流量于一体) Intelligent (Integration of communication control, 0-10V/4-20mA input + output, temperature control, temperature control, pressure control, differential pressure control flow)
功率 Power consumption: 10N.m 运行 Operating 2W, 保持 Standby 1W; 25N.m 运行 Operating 3W, 保持 Standby 1W; 50N.m 运行 Operating 5W, 保持 Standby 1W;							
外形尺寸 Dimension: 150mm*130mm*(275.5mm), 产品高度随安装高度变化							
安装方式 Installation: 法兰式 Flange connection							
防护等级 Protection: IP54							
最大行程 Maximum stroke: 52mm(自适应)							

TANGER 26



型号 Model	VB49V 40A	VB49V 50A	VB49V 65A	VB49V 80A	VB49V 100A	VB49V 125A	VB49V 150A	VB49V 200A
规格 Norm	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
H1 ^{+0.03 -0.03}	60	65	75	92	101	115	145	159
H2 ^{+0.03 -0.03}	227.5	232.5	237.5	249.5	265.5	279.5	291.5	311.5
D	150	165	185	200	220	245	280	340
L ^{+0.5 -0.5}	137	137	137	172	185	215	250	300
E ^{+0 -0.5}	14	14	14	14	14	14	14	17
F ^{+0.3 -0.5}	110	125	145	160	180	210	240	295
B1	65x65	65x65	65x65	65x65	65x65	65x65	65x65	65x65
	52x52	52x52	52x52	52x52	52x52	52x52	52x52	52x52
φB2	70	70	70	70	70	70	70	70
	50	50	50	50	50	50	50	
φB3	9	9	9	9	9	9	9	9
	7	7	7	7	7	7	7	
G	4xφ18	4xφ18	4xφ18	8xφ18	8xφ18	8xφ18	8xφ22	12xφ22
A ^{+0 -0.5}	14x14	14x14	14x14	14x14	14x14	14x14	14x14	14x14
空载扭矩(N.m) No-load torque	3	4	4	5	6	9	10	23
关断压差 0.6Mpa (扭矩N.m)	3	5	5.8	7.9	12	17	28	39
关断压差 1.76Mpa (扭矩N.m)	6	9	15	21	27	38	55	77
阀体壁厚 Body wall thickness	6	7	7	7.5	8	10	10	11
KVS	24	42	68.3	100	169	235	343	528
重量 KG	6	7	8.5	12.3	16	24	32	50
阀体主要元部件及材料: 阀体——球墨铸铁、铸钢、不锈钢; 阀芯——304不锈钢; 阀杆——304不锈钢; 密封——PTFE; 测温座——304不锈钢 Valve body main components and materials: Valve body ---- ductile cast iron, cast steel, stainless steel; Spool ---- 304 stainless steel; Valve stem ---- 304 stainless steel; Seal ---- PTFE; Temperature seat ---- 304 stainless steel								



分水器
Manifold



MFD



MFC



MFA

接口螺纹 Interface thread	G1
主管通径 Main tube dia.	37mm
主管间距 Distance between main tubes	210mm
支管间距 Distance between branch pipes	50mm
最高试压 Max. testing pressure	8bar
最大工作压力 Max. working pressure	6bar
排气阀最大排气压力 Max. exhaust valve discharge pressure	6bar
最大工作压差 Max. differential pressure with electrothermal actuators installed	4bar
工作温度 Operating temperature	2~60℃
最高耐温 Max. temperature resistance	75℃
流量计 Flowmeter	0~5L/min, 0~8L/min
适用介质 Applicable medium	水、30%乙二醇溶液 Water, 30%glycol solution
温度感应标贴范围 Temperature display range	34~50℃
支路流量KVS Branch flow	1.0 ³ m/h
主管流量KVS Main flow	5 ³ m/h
口径 Branch caliber	DN25
支路数 Branch number	2~12
支路口径 Branch caliber	3/4
适配器 Adaptor	φ16x2 , φ20x2

流量计 Flowmeter	适配器 Adaptor
0.5~5L/min	φ16x2
0~8L/min	φ20x2

安装示意
Installation Indication



在管道末尾做个标记
Make a mark at the end of the pipe



水平切割管道
Cut pipe horizontally



固定好适配器和管道配件
Fix the adapter and pipe fittings.



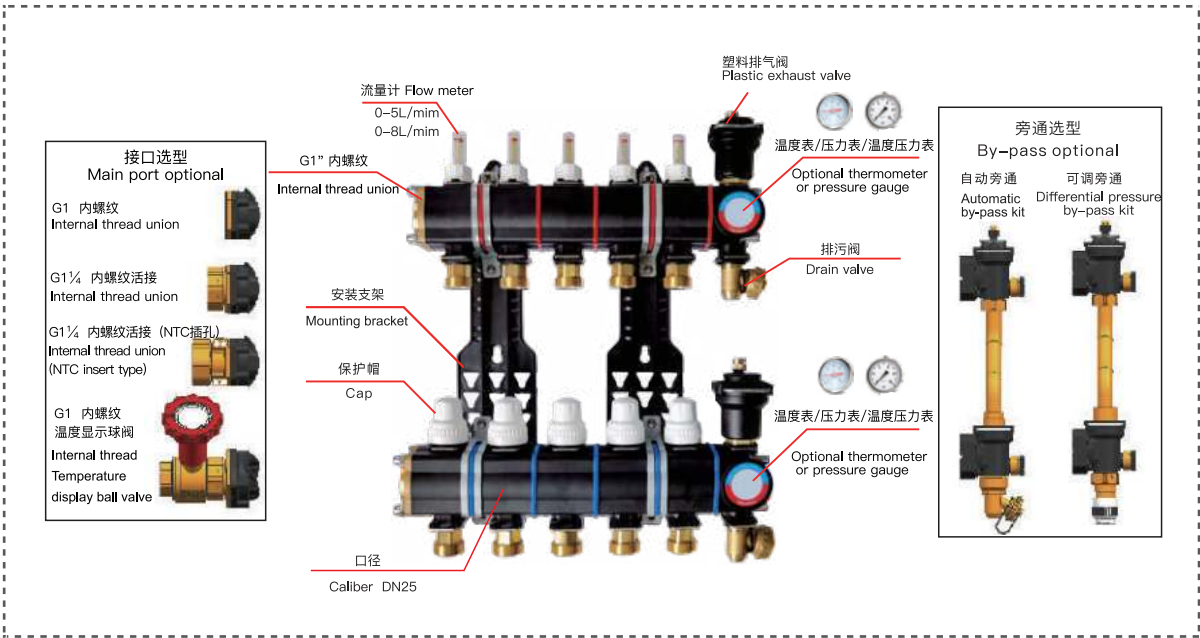
不要将带有适配器的管子，
连接至分水器固定
Do not connect the pipe with
adapter to manifold before fixing it!



固定好适配器和管道配件，使用转接器，
在槽内插入装配夹
Secure the adapter and pipe fittings, use the
adapter, and insert the mounting clip into the slot.



连接系统测试泵至末端配件的填充，
将整个回路加压至最大8bar的压力
Connect the system test pump to the
filling valve of the end fitting.
Pressurize the entire circuit to a pres
of up to 8 bar for the specified time.



TANGER 29

集中控制盒

Wiring Center



应用于中央加热和制冷系统中，可实现有线控制、无线控制、RS485通讯控制，带水泵延时启动功能、壁挂炉联动控制。同时每路执行器还可以控制每一路回水管道的回水温度，使系统控制更智能化，达到高节能的使用要求。

The wiring center is used in the central heating and cooling system, which can realize wired control, wireless control, RS485 communication control, with water pump delay start function, and wall-hung boiler linkage control. At the same time, each actuator can also control the return water temperature of each return water pipe, making the system control more intelligent and meeting the requirements of high energy-saving use.

型号 Model	工作电源 Power supply	温控器 Room thermostat	电热/电动 执行器 Thermal/Motorized Actuator	执行器 总电流 Actuators current	控制 路数 Channels	功能 Functions
DKC661BA	110-240 VAC	输出信号 Output signal 230V	230V	3A	8	水泵延时设定，壁挂炉无源联动，控制两线一控执行器动作 Pump output delay, wall-hanging boiler passive linkage, control 2-wired actuators
DKC861BA	24V AC/DC	输出信号 Output signal 24V	24V			
DKC662BA	110-240 VAC	230V 无线 230V wireless	230V	3A	8	无线接收 433/868MHZ，水泵延时设定，壁挂炉无源联动，控制两线一控执行器动作 Wireless reception 433/868MHZ, Pump output delay, control 2-wired actuators
DKC862BA	24V AC/DC	24V 无线 24V wireless	24V			
DKC263BA	110-240 VAC	输出信号 Output signal 230V	ZEE05M01 Factory configuration	0.1A	8	水泵延时设定，壁挂炉无源联动，控制两线控执行器动作 Water pump delay setting, wall-mounted boiler passive linkage, control 2-wired actuators
DKC265BA	110-240 VAC	RS485 communication	ZEE05M01 Factory configuration	0.1A	12	每路回水温度控制 2-45℃(可调) Each channel's return water temperature control 2-45℃ (adjustable) 进水温度监测探头,超温水泵保护及气候温度补偿 (选配) Inlet water temperature monitoring probe, overheated water pump protection, and climate temperature compensation (optional)
DKC264BA	110-240 VAC	230V 无线 230V wireless	ZEE05M01 Factory configuration	0.1A	12	水泵延时设定，壁挂炉无源联动，控制两线控执行器动作 Water pump delay setting, wall-mounted boiler passive linkage, control 2-wired actuators 无线接收 Wireless reception: 433/868MHZ 每路回水温度控制 2-45℃(可调) Each channel's return water temperature control 2-45℃ (adjustable) 进水温度监测探头,超温水泵保护及气候温度补偿 (选配) Inlet water temperature monitoring probe, overheated water pump protection, and climate temperature compensation (optional)
工作温度 Working temperature: -10~50℃						
防护等级 Protection class: IP20						
外壳材质 Material: PC/ABS UL94V0						
外形尺寸 Dimension: 230x99x43mm						
环境温度 Ambient humidity: 5-95% RH non-condensing						
水泵电流 Pump current: 1A						

TANGER 30



电子房间温控/机械式房间温控

Electronic Room Thermostat/Room Thermostat

舒适·节能

电子房间温控/Electronic Room Thermostat	27
DD-01, DD-02, DD-05, DD-06, DCA, DTA, DTB, DTC, DTD	
机械式房间温控/Room Thermostat	31
TR-90, TR-93, TR-010/TR-100, TR-010X, TR-16 TR-110A, TR-110B, TR-110C, TR-110D, TR-110E, TR-110M, TR-110K	



TANGER 33

电子房间温控

Electronic Room Thermostat



技术参数

Technical Parameter

型号 Model	工作温度范围 Temperature range	环境温度 Ambient temperature	温度精度 Temperature accuracy	外形尺寸 Dimensions (mm)	应用 Application
DD-01	5~45℃	0~50℃	±1℃	88X83X36	水采暖(带 RS485 通讯) Water heating (With RS485 communication)
DD-02	5~45℃	0~50℃	±1℃	88X83X36	水采暖 Water heating
DD-05	5~45℃	0~50℃	±1℃	108x88x21	水采暖 Water heating
DD-06	5~45℃	0~50℃	±1℃	108x88x21	水采暖/空调(无线控制) Water heating/ Air conditioning (Wireless control)
工作电源 Power supply: 100~240VAC					
最大负载电流 Max. Load: 10(3)A DD-05: 8 (2) A					
防护等级 Protection: IP40					

房间温控

Room Thermostat



注: TR-001 带电源开关 ON/OFF
TR-100 带冷暖开关 Heating/Cooling
TR-16 风速开关 Fan Switch

房间温控器,内置感温膜盒, 可根据设定温度, 自动控制执行器通断电, 从而达到控制阀门流量的目的;主要用于控制中央空调系统或地暖系统中阀门的开启或关闭,达到控制室温的作用。
With built-in sensor, the room thermostat can automatically control the on/off of the actuator according to the set temperature. It's mainly used to adjust the opening/closing of valves in central air conditioning system and under-floor heating system, and finally control the room temperature.

技术参数

Technical Parameter

产品名称 Model	电器额定值 Power supply	工作温度范围 Temperature range	差动 Switching differential	温度精度 Temperature accuracy	感温元件 Sensor type	防护等级 Protection	外形尺寸 Dimensions (mm)
TR-90	10(3)A 230VAC	5~30℃	0.5~1℃	±1℃	充气式膜盒 Gas filled syphon	IP30	80x80x38
TR-93						IP20	80x80x38
TR-010	10(3)A 230VAC	10~30℃	0.5~1℃	±1℃		IP20	83x83x38
TR-010X							
TR-001							
TR-100							
TR-16	6(4)A 230VAC						83x83x27



TANGER 31

电子房间温控

Electronic Room Thermostat



技术参数

Technical Parameter

产品型号 Model	款式 Type			电源电压 Power supply	控制方式 Control method	应用 Application	功能 Functions	外形尺寸 (mm)
	按键 Key	旋钮 Knob	触屏 Touch screen					
DCA601AB	●			100–240VAC	有线 Wired	水地暖 Water floor heating	二种运行模式，7天6时 2 operating modes, 7 days and 6 periods of programming	125x83.5x30.5
DTB601AA		●						85.5x85.5x42
DTA601AA			●					85.5x85.5x39.5
DCA702AB	●			电池 2*AAA batteries	无线 Wireless	水地暖 Water floor heating		125x83.5x30.5
DTC702AA		●		电池 2*AA batteries				85.5x85.5x31.5
DTD702AA			●					85.5x85.5x29
DCA772AB	●			电池 2*AA batteries	无线 Wireless	电采暖 Electric heating		125x83.5x30.5
DTC772AA		●		电池 2*AA batteries				85.5x85.5x31.5
DTD772AA			●					85.5x85.5x29
DCA605AB	●			100–240VAC	有线 Wired	水地暖（带通讯） （Water floor heating With communication）		125x83.5x30.5
DTB605AA		●						85.5x85.5x42
DTA605AA			●					85.5x85.5x39.5
DCA661AB	●			100–240VAC	有线 Wired	水地暖（带壁挂炉联动） Water floor heating with wall hanging boiler		125x83.5x30.5
DTB661AA		●						85.5x85.5x42
DTA661AA			●					85.5x85.5x39.5
DCA722AB	●			电池 2*AAA batteries	无线 Wireless	空调（制热+制冷） Air conditioning； Heating+ Refrigeration	四种运行模式，三档风速，7天6时段编 4 operating modes, 3–speed wind, 7 days and 6 periods of programming	125x83.5x30.5
DTC722AA		●		电池 2*AA batteries				85.5x85.5x31.5
DTD722AA			●					85.5x85.5x29

TANGER 32

技术参数

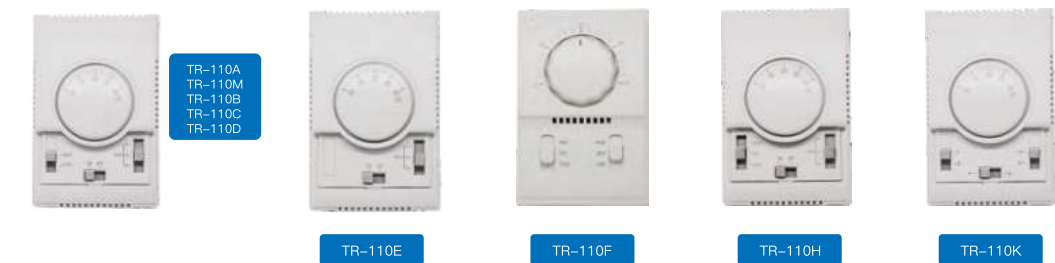
Technical Parameter

产品型号 Model	款式 Type			电源电压 Power supply	控制方式 Control method	应用 Application	功能 Functions	外形尺寸 Dimension (mm)	
	按键 Key	旋钮 Knob	触屏 Touch screen						
DCA712AB	●			2*AAA batteries	无线 Wireless	水地暖+空调 Water heating + Air conditioning	四种运行模式， 三档风速，7天 6时段编 4 operating modes， 3-speed wind 7 days and 6 periods of programming	125*83.5*30.5	
DTC712AA		●		2*AA batteries				85.5*85.5*31.5	
DTD712AA			●					85.5*85.5*29	
DCA611AB	●			100-240VAC	有线 Wired	水地暖+空调 Water heating + Air conditioning		125*83.5*30.5	
DTB611AA		●						85.5*85.5*42	
DTA611AA			●					85.5*85.5*39.5	
DCA621AC	●			100-240VAC	有线 Wired	空调（制热+制冷） Air conditioning (Heating+ Refrigeration		125*83.5*30.5	
DTB621AA		●						85.5*85.5*42	
DTA621AA			●					85.5*85.5*39.5	
DCA625AB	●			100-240VAC	有线 Wired	空调（制热+制冷，带通讯） Air conditioning; Heating+ Refrigeration, With With communication)		125*83.5*30.5	
DTB625AA		●						85.5*85.5*42	
DTA625AA			●					85.5*85.5*39.5	
DCA631AC	●			100-240VAC	有线 Wired	空调（制热+制冷，带 0-10V 无级调速 ） Air conditioning (Heating+ Refrigeration, with 0-10V stepless speed regulation)		125*83.5*30.5	
DTB631AA		●						85.5*85.5*42	
DTA631AA			●					85.5*85.5*39.5	
DCA651AC	●			100-240VAC	有线 Wired	空调（制热+制冷，带主机联 动） Air conditioning (Heating+ Refrigeration, with host linkage)		125*83.5*30.5	
DTB651AA		●						85.5*85.5*42	
DTA651AA			●					85.5*85.5*39.5	
DTB691AA		●						85.5*85.5*42	
负载电流 Load current：16A（DCA772AB、DTC772AA、DTC772AB） 其他 Other: 6(3)A									
温度范围 Temperature range：5~45℃									
温度精度 Temperature accuracy: ±1℃									
防护等级 Protection：IP30									

TANGER 35

机械式房间温控

Mechanical Room Thermostat



适用于宾馆或户式中央空调冷暖的温度控制，有各种不同的接线方式和多种工作模式可供选择。
Mainly used to control the heating /cooling of central air conditioner, with different wire connections option and

技术参数

Technical Parameter

产品名称 Model	TR-110A	TR-110B	TR-110C	TR-110D	TR-110E	TR-110F	TR-110H	TR-110M	TR-110K
独立的系统电源开关 ON/OFF switch	●	●	●	●	●		●	●	●
手动三档风速转换 3-speed switch	●	●	●	●	●	●	●	●	●
冷暖切换开关 Heat/Cool switch	●	●	●	●			●	●	
自动控制阀门执行器 动作,风机不受温度 开关控制 Automatic control of electric valve actuator, while fan is not controlled by the set temperature	●				●		●	●	
自动控制阀门 执行器动作, 风机受温度开关控制 Automatic control of electric valve actuator, and fan is controlled by the set temperature		●	●	●					●
两组加热器可独立控制 2 heat setting									●
适用于三线电动执行器 Suitable for 3- wire electric actuators					●				
工作温度范围 (Temperature range)		10~30℃							
工作电压 (Rated power supply)		6(3)A 220~240VAC							
差动 (Switching differential)		0.5~1℃							
尺寸 (Dimensions) mm		130x85x40 133x88x43 (TR-110F)							



电子管道温控/机械式管道温控

Electric Pipe Thermostat/ Pipe Thermostat

舒适·节能

电子管道温控/Electric Pipe Thermostat DSA681BA, DSA681BB, DSB681BA	33
机械式管道温控/Pipe Thermostat WPR-90GA, WPR-90GA-2, GB-0/90A, GB-0/90A-2, WPR-90GC, WPR-90CK	34

TANGER 37

电子管道温控

Electric Pipe Thermostat



DSA681BA



DSA681BB



DSB681BA

技术参数

Technical Parameter

型号 Model	温度设定 Temperature range	差动调节范围 Differential adjusting range	温度精度 Temperature accuracy	传感器最大耐温 Max. temperature resistance of sensor	安装方式 Type
DSA681BA	5~90℃	0.1~15℃	±1℃	100℃	外置传感器 Remote probe type
DSA681BB	5~80℃	0.1~15℃	±1.5℃	100℃	贴面式 Surface-mounting type
DSB681BA	5~80℃	0.1~15℃	±1℃	100℃	插杆式 Immersion type
工作电源 Power supply: 10(3)A , 250VAC					
差动最小调节 Differential min. Scale: 0.1℃					
本体最大耐温 Max. temperature resistance of body: 80℃					
防护等级 Protection: IP40					
外壳材质 Material: ABS UL 94V0					

机械式管道温控

Pipe Thermostat



WPR-90GA



WPR-90GA-2



WPR-90GC



GB-0/90A



GB-0/90A-2



WPR-90CK



GB-40/80A

应用于管道、锅炉的温度控制。
Control the temperature of piping and boiler.
Immersion thermostat with immersion rod and immersion sleeve.
Temperature set by knob or internal adjustable by screw driver.

技术参数

Technical Parameter

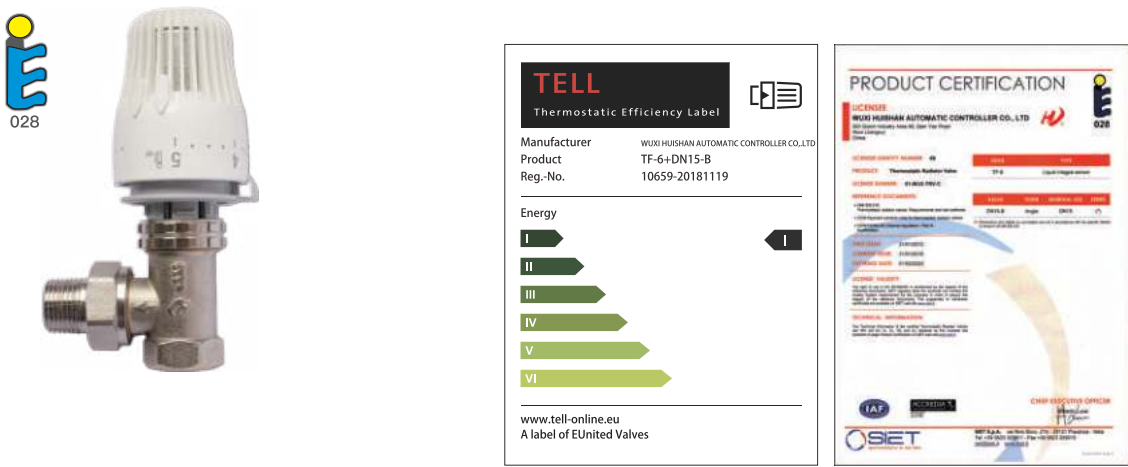
产品名称 Model	工作电源 Power supply	工作温度范围 Temperature range	差动 Switching differential	铜管尺寸 Pocket size	螺纹 Thread	防护等级 Protection	备注 Remark
WPR-90GA	16(4)A 250VAC	0~90℃	5℃	φ8x100mm	NPT 1/2	IP40	
WPR-90GA-2	16(4)A 250VAC	0~90℃	5℃	φ8x100mm	NPT 1/2	IP40	内调节或手动复位 Internal adjust or Manual reset
GB-0/90A	16(4)A 250VAC	0~90℃	1~10℃			IP40	
GB-0/90A-2	16(4)A 250VAC	0~90℃	1~10℃			IP40	内调节或手动复位 Internal adjust or Manual reset
GB-40/80A	16(4)A 250VAC	40~80℃	1~10℃			IP40	
WPR-90GC	16(4)A 250VAC	0~90℃	5℃			IP40	毛细管长度:1M Capillary length:1M
WPR-90CK	16(4)A 250VAC	0~90℃	4±2℃	φ16x100mm	R1/2	IP40	



TANGER 41

恒温阀

TRV head



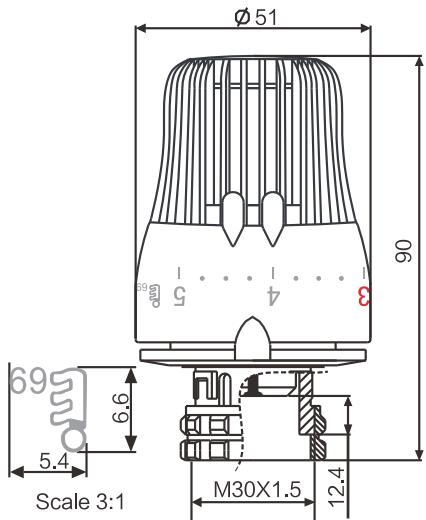
EN215认证编号
(CEN Licensee Identity Number) : 69

刻度标识对应温度
Temperature regulation scale and the corresponding temperature



TF-6和DN15-B配套使用的主要参数
TF-6 and DN15-B main parameters to be used together

最大工作压力 Max. admissible static pressure	1.0MPa
最大工作压差 Max. admissible differential pressure	0.1MPa
最大流体温度 Max. fluid temperatu	110℃
公称流量 Nominal flow rate	265kg/h
滞后 (C) Hysteresis (C)	0.3K
压差的影响 (D) Differential pressure influence (D)	0.4K
水温度的影响 (W) Water temperature influence (W)	0.55K
除霜保护 Antifreeze position	6℃
响应时间 (Z) Response time (Z)	23min
控制精度 Control accuracy (CA)	0.2K
安装螺母 Installation size	M30x1.5
	M28x1.5



恒温阀

TRV Head



此款为自调控控制阀，无需外部能量，可以独立调节每个房间的温度，维持一个恒定的室温要求。
具有节能，易使用性。
Thermostatic radiator valve is energy-saving and easy to use. No external energy is required. It can adjust the temperature of each room automatically to maintain a constant room temperature.

技术参数
Technical Parameter

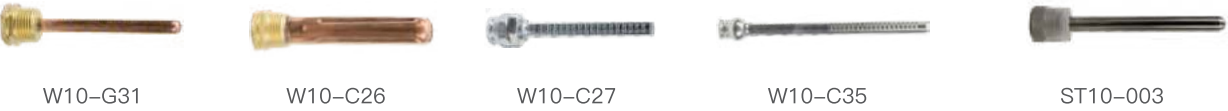
产品名称 Model	温度 设定范围 Temperature range		锁定功能 Temperature lockable		安装螺母 Installation size	最大 工作压力 Max. static pressure	最大 工作压差 Max. differential pressure	最高耐温 Max. temperature resistance	滞后 Hysteresis
	2~28℃	6~28℃	是Yes	否No					
TFA01A01	●		●		M30x1.5	1.0Mpa	0.1Mpa	50℃	0.4K
TFB01A01	●		●						
TFC01A01	●		●						
TF-4		●		●	M28; M30x1.5				
TF-5		●	●		M30x1.5				
TF-9		●	●						
TF-20		●	●						
TF-34		●	●						



TANGER 39

铜管组件

Immersion Sleeve



技术参数

Technical Parameter

产品名称 Model	铜管尺寸 Pocket size	螺纹 Thread	材质 Material
W10-G31	φ8x100mm	NPT 1/2	黄铜 Brass
W10-C26	φ16x100mm	R1/2	黄铜 Brass
W10-C27	φ12.3x135mm	M20X1.5mm	碳素钢 Carbon steel
W10-C35	φ16x225mm		碳素钢 Carbon steel
ST10-003	φ16x110mm	R1/2	不锈钢 Stainless steel

其他尺寸可定制

All parameters can be customized

TANGER 40

4



舒适·节能

散热器恒温阀/Thermostatic Head with Built-in Liquid Sensor	37
电子阀头/Electronic Thermostatic Head	39
远程恒温控制阀/Thermostatic Head with Remote Sensor	40
阀体/Thermostatic Valves	41
液阀芯/ Liquid sensor	42

TANGER 43

电子阀头

Electronic Thermostatic Head



TFD03A01

TFD03A01散热器电子恒温阀头，应用于暖气片系统中，无需外部能量，根据设定温度，自动调节阀门的开度，从而达到控制室温的目的。采用无刷电机驱动，寿命长，噪音低，能实现节能舒适的恒温环境

TFD03A01 electronic thermostatic head is used in the radiator system. It does not need external energy. It automatically adjusts the opening of the valve according to the set temperature, thus achieving the purpose of controlling the room temperature. Brushless motor drive, long service life, low noise, energy saving and comfortable constant temperature environment.

技术参数

Technical Parameter

供电方式 Power supply mode	二节5号1.5V电池（LR6）2x1.5V AA batteries
最电池使用寿命 Battery warranty	1年 1 year
温度设置 Temperature setting	5-35℃
显示温度范围 Display temperature range	0-60℃
温度精度 Temperature accuracy	±1℃
除霜保护 Antifreeze position	6℃
工作温度 Working temperature	0-50℃
温度传感器 Temperature senso	数字探头 Digital probe
频率 Frequency	433MHZ
编程模式 Programming mode	七天六时段 Seven days and six periods
安装螺母 Installation size	M30x1.5

TANGER 44

远程恒温控制阀

Thermostatic Head With Remote Sensor



TF-7A



TF-13



TF-15



TF-36



TF-42



TF-13C

远程恒温控制阀无需外部能源,应用于热风机、地暖、热交换器等，感温元件直接安装在管道表面或管道内部，适用于水、空气的远程温度控制。

Without external energy, the remote thermostatic heads are mainly used for air heaters, floor heating and heat exchangers, etc. The temperature sensor will be directly installed on the pipe surface or inside, suitable for remote temperature control of water and air.

技术参数

Technical Parameter

产品名称 Model	温度 设定范围 Temperature range	最大 工作压力 Max. static pressure	最大 工作压差 Max. differential pressure	传感器 最高耐温 Max. temperature resistance	安装螺母 Installation size	毛细管 长度 Capillary length	温包长度 Bulb size
TF-7A	20~60℃	1.0Mpa	0.1Mpa	80℃	M28/M30x1.5	2M	φ9.5x110mm
TF-13					M30x1.5		
TF-15	6~28℃					1M	Φ15.5x110mm
TF-36	20~70℃						
TF-42	20~60℃					2M	φ9.5x110mm
TF-13C					1M		



阀体
Thermostatic Valves



DN15-A2



DN15-AC



DN20-A2



DN20-AC



DN15-B2



DN15-BC2



DN15-A3



DN15-AC2



DN15-B3



DN15-BC



DN15-B4



DN15-BC3

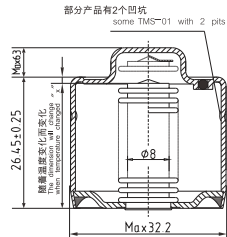
技术参数
Technical Parameter

产品名称 Model	KVS	口径 Specification		最大工作压差 Max. differential pressure	最大工作压力 Max. static pressure	最耐温 Temperature resistance
		1/2"	3/4"			
DN15-A2	1.3	●		1bar	10bar	5~100℃
DN15-AC	1.7	●				
DN20-A2	2.2		●			
DN20-AC	2.4		●			
DN15-B2	1.5	●				
DN15-BC2	1.7	●				
DN15-A3	0.9	●				
DN15-AC2	1.14	●				
DN15-B3	2.0	●				
DN15-BC	1.63	●				
DN15-B4	1.5	●				
DN15-BC3	1.63	●				

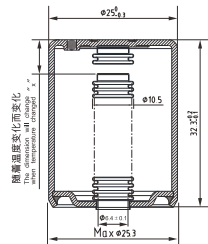
液阀芯
Liquid Sensor



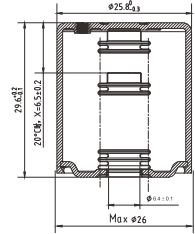
TMS-01



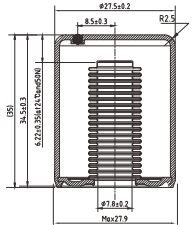
TMS-03



TMS-04



TMS-05

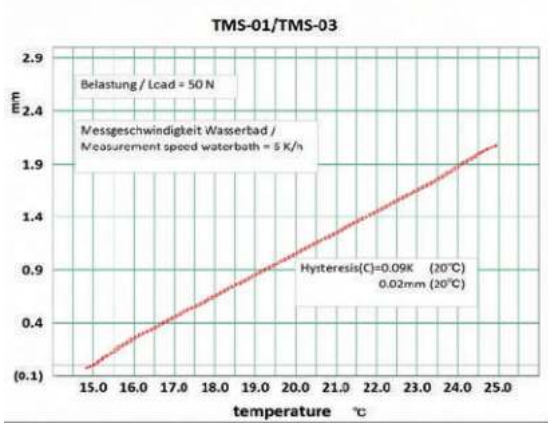


具有控温、调温的功能。一般用于温度控制器和散热器恒温阀，符合EN215。
Have the function of the temperature control, temperature regulation. Generally used for thermostatic radiator valve head and temperature controller, conform to EN215.

技术参数
Technical Parameter

工作范围 Working range		5℃~30℃		
工作负载 Work load		40~80N		
最小/最大负载 Min /Max load		40/120N		
最小/最大温度 Min/Max Temperature		-25℃~+55℃		
滞后 Hysteresis		0.12K		
50N压力下，15/25℃ 行程 Stroke, 15/25℃,at50N		2.2+/-0.1mm		
高度 Height	20℃	TMS-01	TMS-03	TMS-04
		0.95±0.2mm	6.5±0.2mm	
	24℃	TMS-05		
		6.5±0.2mm		

滞后图
Hysteresis Chart



三通恒温混水阀
3-way Thermostatic Mixing Valve



恒温混水阀适用于生活热水、户式换热站、混水泵站的冷热水系统中，
无需外部能量，自动控制恒温出水。
The thermostatic mixing valve is suitable for the cold and hot water
system of domestic hot water, indoor heat exchange station and mixing
pump station. No external energy is required, it can automatically control
the water outlet with constant temperature.

	最高水温 Max. water temperature	90℃
	温度调节范围 Temperature adjusting range	25-50℃
	控制精度 Accuracy	2℃
	最大工作压力 Max. working pressure	10Bar
	安装螺纹 Thread	G1
	工作介质 Working medium	水+50%乙二醇溶液 Water + 50% glycol solution

防霜温控
Anti-frost Thermostat



ST-W-F



附件 Accessory

技术参数
Technical Parameter

工作温度范围 Temperature range	差动范围 Differential range	电气额定值 Electrical rating	毛细管长度（可定制） Capillary length (Customizable)
-18~15℃	1~5℃	16(4)A 250VAC	1m; 2m; 3m; 6m; 12m
-15~15℃			2m; 3m; 4m; 6m; 12m
Tb: 本体温度Body Temperature Ts: 感温部温度Temperature Sensing Department Tb>Ts			



毛细管温控/流量开关/自动补水阀

Capillary Thermostat/Flow Switch/Pressure Regulator

舒适·节能

毛细管温控/Capillary Thermostat	49
流量开关/Flow Switch	54





5

舒适·节能

超温保护泄压阀/Thermal Safety Drain Series	44
炉门温控/Draught Regulator	44
PT安全阀/Temperature And Pressure Safety Relief Valve	44
回水温控箱/Return Water Temperature Control Box	45
回水恒温阀/Return Water Thermostatic Valve	45
供热循环泵站/Heating Circulation Pumping Station	46
三通恒温混水阀/3-way Thermostatic Mixing Valve	46
防霜温控/Anti-frost Thermostat	47

超温保护泄压阀

Thermal Safety Drain Series



YC-1

主要适用于锅炉等温度过热器具的保护
Overheat protection of boiler.

进/出口接头 Inlet/outlet connections	G1/2
毛细管 Capillary length	1500 mm
设定温度 Setting temperature	97℃
最大工作压力 Max. operating pressure	10 bar
最大流体温度 Max. fluid temperature	107℃
排水量 Drain capacity	DP= 0.1 bar , 600 L/h

炉门温控

Draught Regulator



BR-01A

主要适用于煤炉及柴炉的炉门温度控制，当温度升高时炉门关闭。
The thermal safety discharge is installed in systems with boilers running on non-atomized solid fuel, as protection against over temperature.

热敏感元件 Heat sensitive element	蜡阀芯 Vernet wax sensor
温度调节范围 Temperature range	30~90℃
行程 Stroke	90m
最大流体温度 Max. fluid temperature	115℃
链长度 Chain length	1200 mm

PT安全阀

Temperature And Pressure Safety Relief Valve



PT-01

适用于储水式电热水器、燃气热水器、太阳能热水器以及各种压力容器的安全防爆
Suitable for the safety and explosion-proof for storage-type electric water heaters, gas water heaters, solar water heaters and various pressure vessels.

热泄压温度 Temperature relief	94~99℃
安全泄压 Pressure relief range	0.4~1.0MPa
安全泄压 Pressure relief range	300~350KPa
安全泄压 Pressure relief range	R 3/4
强制手动泄压 Mandatory manual pressure relief	



回水温控箱
Return Water Temperature Control Box



TCB-1



TCB-2



TCB-3



TCB-4

技术参数
Technical Parameter

产品名称 Model	TCB-1	TCB-2	TCB-3	TCB-4
工作温度范围 Temperature range	6~28℃	10~50℃	6~28℃ 10~50℃	10~50℃
最大工作压力 Max. working pressure	1.0Mpa			
最大工作压差 Max. working differential pressure	0.1Mpa			
安装深度 Installation depth	60mm			
连接头螺纹 Connection size	G 3/4			
恒温控制器 Thermostatic head with liquid sensor	TF-6	TF-23	TF-23&TF-6	TF-23
电热执行器 Electric thermal actuator				DF-110E

回水恒温阀
Return Water Thermostatic Valve



TF-23



DN20-AG

热敏感元件 Heat sensitive element	蜡阀芯 Vernet wax sensor
温度调节范围 Temperature range	10~50℃
刻度标识 Temperature regulation scalee	1~5
最大工作压力 Max. working pressure	1.0MPa
最大工作压差 Max. working differential pressure	0.1MPa
安装螺母 Installation size	M30x1.5

供热循环泵站
Heating Circulation Pumping Station



TMA01A01

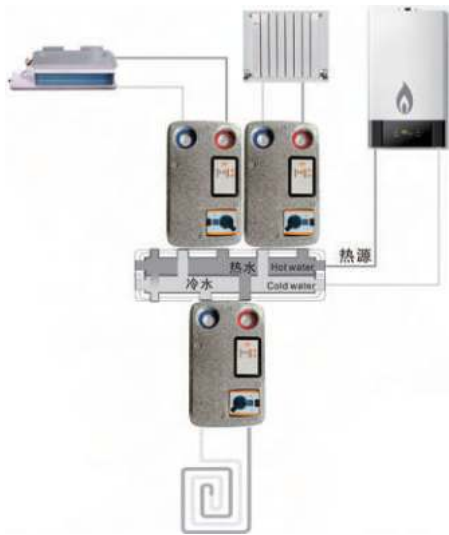


TMB01A01



TMD01A01

技术参数
Technical Parameter



工作示意图
Working Diagram

产品名称 Model	TMA01A01	TMB01A01	TMD01A01
进口螺纹 Imported threads	G1 1/2	Rp1 1/4	G1
出口螺纹 Outlet thread	G1 1/2	Rp1 1/4	G1
主管通径 Pipe diameter	φ25		
主管间距 Pipe spacing	125mm	125mm	210mm
最大压差 Max. pressure difference	1bar		
最大工作压力 Max. working pressure	5bar		
最大试压 Max. test pressure	6bar		
储存温度 Storage temperature	-20~60℃		
工作温度 Operating temperature	2~80℃		
最高耐温 Maximum temperature resistance	95℃		
执行器控制信号 Actuator control signal	0-10V/4-20mA		
适用介质 Applicable medium	水、乙二醇溶液 Water, glycol solution		
KVS	5.5³m/h³		



毛细管温控
Capillary Thermostat



适用于冷藏、冷冻柜（箱）及类似用途器具的温度控制。
Temperature control for refrigerator, freezer and other similar equipment.

技术参数
Technical Parameter

产品名称 Model	工作温度范围 Temperature range	电气额定值 Electrical rating	差动 Switching differential	毛细管长度 Capillary length
F3000	-35℃~+35℃	16(4)A/250V	≤3.5℃	180mm
F3000C			2℃±1.5℃	1750mm
A2000 (WPR-35LB)			≤3.5℃	180mm
F2000(WPR-35L)			1-3.5℃	1750mm
WPR-35LA			3.5-6.5℃	
WPR-40L	0℃~40℃		≤3.5℃	

毛细管温控
Capillary Thermostat



C系列/G系列：适用于热水器及类似用途器具的温度控制
C series/G series Application: temperature control of boilers and other similar equipment.

技术参数
Technical Parameter

型号 Mode	工作温度范围（可定制） Temperature range (Customizable)	差动 Switching differential	电气额定值 Electrical rating	毛细管长度（可定制） Capillary length (Customizable)
C series	0~90℃	5±3℃	16(4)A 250V	120mm-2000mm
	0~120℃	5±3℃		
G series	0~210℃	5±3℃		
	50~300℃	10±3℃		



CA系列/GF系列：适用于热水、洗衣机、电烤箱及类似用途器具的温度控制,带漏液保护、手动复位功能。
CA series/GF series Application: temperature control of washing machine, water heater, electric oven and other similar equipment with manual reset function and leakage protection.

技术参数
Technical Parameter

型号 Mode	工作温度范围（可定制） Temperature range (Customizable)	电气额定值 Electrical rating	毛细管长度（可定制） Capillary length (Customizable)
CA series	70~90℃	C-1 0.5A 250V C-2 16(4)A 250V C款	120mm-2000mm
	90~110℃		
	90℃		
GF series	100℃		
	300℃		

TANGER 55

毛细管温控

Capillary Thermostat



技术参数

Technical Parameter

型号 Mode	工作温度范围（可定制） Temperature range (Customizable)	差动 Switching differential	电气额定值 Electrical rating	毛细管长度（可定制） Capillary length (Customizable)
HE series	-35~+35℃	<3℃	22 (6) A 250V	1000mm
	0~40℃	<2.5℃		1000mm
	0~90℃	<3.5℃		1500mm

型号 Mode	工作温度范围（可定制） Temperature range (Customizable)	差动 Switching differential	电气额定值 Electrical rating	毛细管长度（可定制） Capillary length (Customizable)
E series	50~300℃	10±2℃	16(4)A 250V	1000mm
	50~320℃			



手动复位
Manual reset
温度下降≥20℃复位
Temperature decrease≥20℃ , reset

技术参数

Technical Parameter

型号 Mode	工作温度范围（可定制） Temperature range (Customizable)	差动 Switching differential	电气额定值 Electrical rating	毛细管长度（可定制） Capillary length (Customizable)
V series	0~120℃	5±2.5℃	16(4)A 250V	1000mm

型号 Mode	工作温度范围 Temperature range	电气额定值 Electrical rating	毛细管长度（可定制） Capillary length (Customizable)
F series	80℃	16(4)A 250V	800mm
	220℃		

毛细管温控

Capillary Thermostat



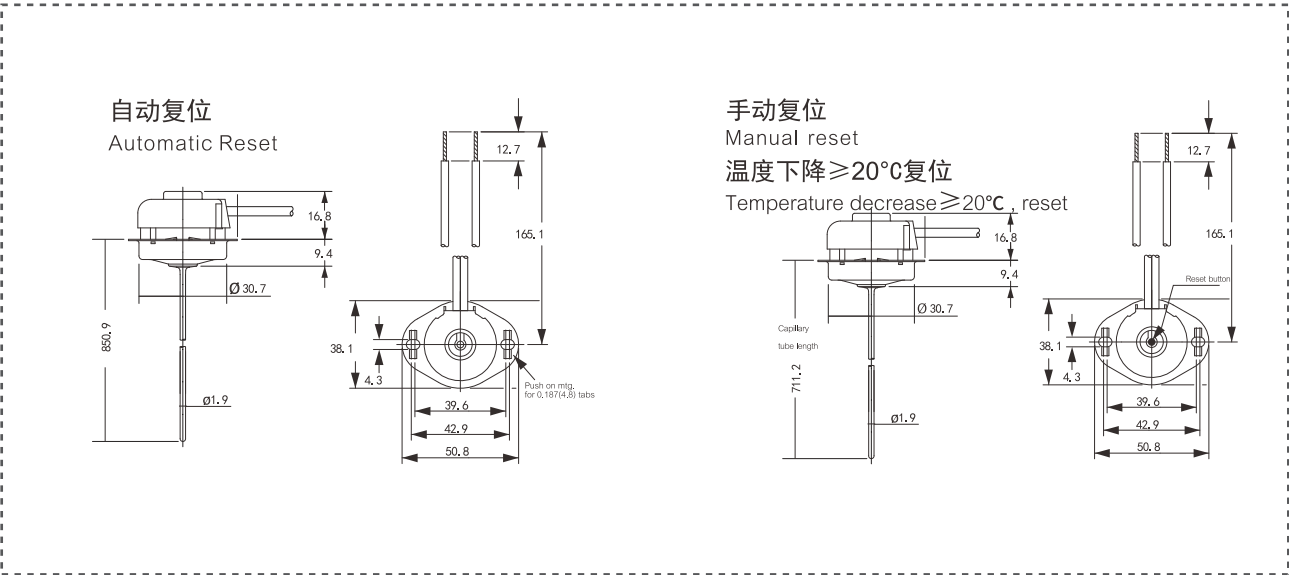
技术参数

Technical Parameter

工作温度范围 Temperature range	差动 Switching differential	电气额定值 Electrical rating	毛细管长度 Capillary length
90±6℃ (FT-90, FT-90-M)	25±15℃	25A	2000mm, 1450mm, 950mm, 780mm, 500mm
99±6℃ (FT-99, FT-99-M)		120V/24V/277VAC	

外形尺寸

Overall Dimension



制冷及汽车空调用温控器
Thermostat For Refrigerating And Automobile Air Conditioning



Y108563A



WL-0.5



WL-OE



WL-1A



WL-OC



WL-4A



WL-0.5KB



WPF211



DWL-2



DWLF-2D



33D907543

流量开关
Flow Switch



FS-25



FS-25B

流量调整范围 (L/min)

配管尺寸	最小 Min.		最大 Max.	
	流量减小 Flow decrease	流量增加 Flow increase	流量减小 Flow decrease	流量增加 Flow increase
1"	18	21	45	50
2"	50	58	150	155
3"	100	115	225	260

电源电压 Supply power	最大工作压力 Maximum admissible static pressure	接口 Installation size	最大管径 Max. pipe diameter	流体温度 Temperature of liquid	防护等级 Protection
16 (6) A 220~250VAC	1MPa	1"	6"	-20~120℃	IP42

适用于制冷、供暖以及感应经过管道的液体流量变化，起到开关信号作用，根据不同的流量需要，开关可以进行调节。
Suitable for cooling and heating system, the flow switch can sense the liquid flow through the pipe, and adjust the flow according to different requirements.

FS-25A

电源电压 Supply power	流体温度 Temperature of liquid	防护等级 Protection	最大工作压力 Maximum admissible static pressure
16(6)A 250VAC	-20~120℃	IP65	1MPa

这款开关适用于制冷、供暖系统，主要用于监测管道里的液体流量
This switch is suitable for refrigeration and heating system, mainly used for monitoring the liquid flow in the pipeline.

FS-25C

电源电压 Supply power	流体温度 Temperature of liquid	防护等级 Protection
16(6)A 250VAC	-20~120℃	IP60

这款开关用于监测管道里的空气流量。
This switch is used to monitor air flow within a duct and provide a switched output on detection of either a specific air velocity or flow failure.

LS-25A

电源电压 Supply power	流体温度 Temperature of liquid	防护等级 Protection	最大工作压力 Maximum admissible static pressure	浮子尺寸 Float size
16(6)A 250VAC	-20~85℃	IP65	0.5MPa	Ø25x130

这款开关主要用于控制液体位置，
This switch is mainly used to control liquid level in a tank or vessel, to provide a switched output to provide local alarm pump or valve control.

