

电动执行器 | 电动阀门
Electric actuator and Electric valve



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阀门流体控制领域服务与制造
Service and manufacturing in the field of
valve fluid control

安装 流水线 现场

Install the flow
Waterline site



公司建立电动装配防爆车间，并设定防爆车间安全管理制度，严格培训岗位员工，实施流程化生产操作，确保安全生产。

The company has established an explosion-proof workshop for electric assembly, set up a safety management system for explosion-proof workshop, strictly trained employees, implemented process-oriented production operations, and ensured safe production.

仓库一角

A Corner Of The Warehouse

规范化的仓库管理制度与材料管理制度，为标准化生产提供了可靠的原料供应保障。

The standardized warehouse management system and material management system provide a reliable raw material supply guarantee for standardized production.

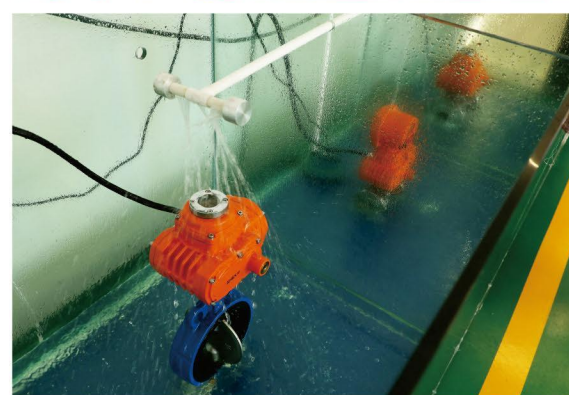


检测室

Testing room

为了提供高品质产品，我们配备了先进的检测设备以及完善的检测手段，建立了一支严格要求的品质管理团队，实现了从原材料检测到生产过程检及应用过程的质量控制

In order to provide high-quality products, we have equipped advanced testing equipment and perfect testing means, established a strict quality management team, and achieved quality control from raw material testing to production process inspection and application process



关于我们

About Us

我们致力于为您提供个性化的解决方案，以满足您在市场竞争中的多样化需求。在过程控制阀领域，我们拥有多年的产品开发经验，一直走在技术的前沿。

我们希望与您合作、与您分享我们在过程控制阀方面的经验，我们在咨询、工程支持以及选择和调试方面的所有专业知识都可供您使用。

我们的产品广泛应用于制药、生物发酵、石化、冶金、空分、电力、煤化工、新能源、食品、饮料、酿酒、乳品等工业场景，以其优质的产品为世界各地的客户提供高效完善的服务。

每一天，我们都在驱动变革，挑战现状，推动创新发展。面对市场的挑战，我们的姿态从不只是“应对”，而是“拥抱”，我们期待着为您在工业自动化领域打造全系统解决方案。

We are committed to providing you with personalized solutions to meet your diverse needs in market competition. In the field of process control valves, we have many years of experience in product development and have been at the forefront of technology.

We would like to cooperate with you and share our experience with process control valves with you, all our expertise in consulting, engineering support as well as selection and commissioning is at your disposal.

Our products are widely used in pharmaceutical, bio-fermentation, petrochemical, metallurgy, air separation, electric power, coal chemical industry, new energy, food, beverage, brewing, dairy and other industrial scenarios. Services.

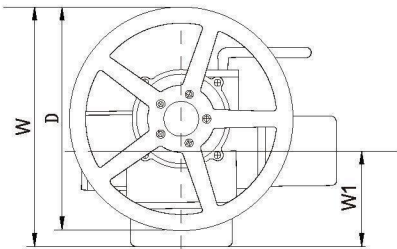
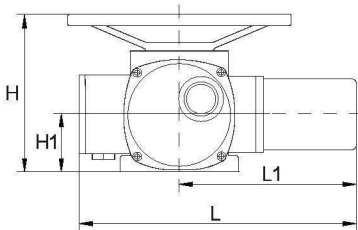
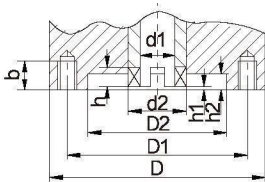
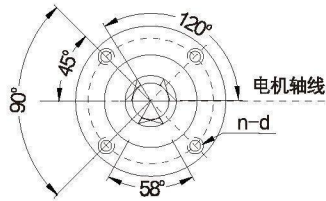
Every day, we drive change, challenge the status quo, and drive innovation forward. In the face of market challenges, our attitude is never just "response", but "embrace". We look forward to creating a total system solution for you in the field of industrial automation.

·Z10/30

多回转基本型系列

Multi turn basic series

ROWO



产品概述 Product Overview

ADOK-Z基本型电动执行器是我公司在现有成熟产品的基础上自主研发的新一代产品。具有精度高、结构紧凑、防护等级高、外形精美、性能稳定等优点。巧妙的结构设计能满足更多不同运用场景的要求，例如潮湿环境、易燃易爆、高低温（-40~+80℃）场合。产品适用于简单的控制阀门远程开、关场合，电动执行器只提供无源开关接点，无电气控制系统不能独立使用，需配阀门控制箱运行。

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Z系列执行器接口尺寸 Z series actuator interface size

执行器型号 Actuator model	法兰型号 Flange model	D	D1	D2	d1	d2	n-d	b	h	h1	h2
Z10/Z15	2#	145	120	90	30	45	4-M10	20	8	2	5
Z20/Z30	3#	185	160	125	42	58	4-M12	20	10	2	5

Z系列执行器外形尺寸 Overall dimensions of Z series actuator

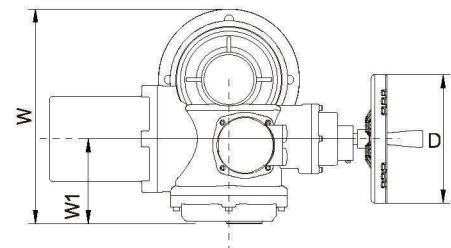
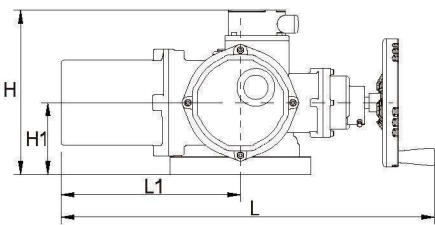
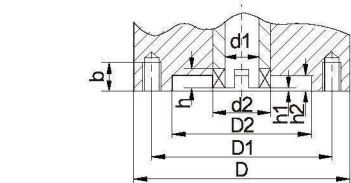
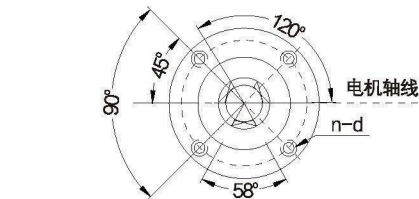
执行器型号 Actuator model	H	H1	W	W1	D	L		L1
						基本型 Basic type	防爆型 Explosion proof type	
Z10/Z15	235	67	330	200	280	410	424	225
Z20/Z30	255	105	382	210	350	510	524	320

性能参数 Performance Parameter

参数 Parameter	型号 Model	ADOK-Z10	ADOK-Z15	ADOK-Z20	ADOK-Z30
	电源 Power Supply	AC380V (常规三相—50Hz) AC380V (conventional three-phase - 50Hz) AC220V (常规单相—50Hz) AC220V (conventional single-phase - 50Hz)	AC380V (常规三相—50Hz) AC380V (conventional three-phase - 50Hz) AC220V (常规单相—50Hz) AC220V (conventional single-phase - 50Hz)	AC660V, AC440V, AC415V (特殊三相—50Hz, 60Hz) AC660V, AC440V, AC415V (special three-phase - 50Hz, 60Hz) AC110V (特殊单相—50Hz, 60Hz) AC110V (special single-phase - 50Hz, 60Hz)	AC660V, AC440V, AC415V (特殊三相—50Hz, 60Hz) AC660V, AC440V, AC415V (special three-phase - 50Hz, 60Hz) AC110V (特殊单相—50Hz, 60Hz) AC110V (special single-phase - 50Hz, 60Hz)
电机功率 Motor power		0.25Kw	0.37Kw	0.55Kw	0.75Kw
额定电流 Rated current		0.9A	1.05A	1.3A	1.8A
输出转矩 Output torque		100N.m	150N.m	200N.m	300N.m
输出转速 Output speed (r/min)		18/24/36	18/24/36	18/24/36	18/24/36
参考重量 Reference weight		16Kg	18Kg	24Kg	28Kg
基本误差 Fundamental error		≤1%			
防护等级 Degree of protection		IP65、IP67、IP68			
防爆等级 Explosion proof grade		Exd11 BT4、CT4、CT6(可选) (optional)			
环境温度 Ambient temperature		-30℃~+70℃ (其他温度可定做) (other temperatures can be customized)			
环境湿度 Ambient humidity		≤95%(25°时) (at 25 °)			
电机工作制 Motor working system		额定运行10分钟，F级绝缘 (特殊事件需定做) Rated operation for 10 minutes, Class F insulation (customized for special events)			

Z45/120

多回转基本型系列
Multi turn Basic Series



产品概述 Product Overview

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Z系列执行器接口尺寸 Z series actuator interface size

执行器型号 Actuator model	法兰型号 Flange model	D	D1	D2	d1	d2	n-d	b	h	h1	h2
Z45/Z60	4#	225	195	150	50	73	4-M16	30	13	2	5
Z90/Z120	5#	275	235	180	63	83	4-M18	34	13	2	5

Z系列执行器外形尺寸 Overall dimensions of Z series actuator

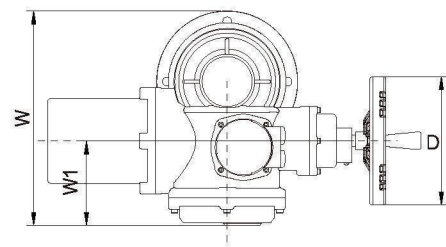
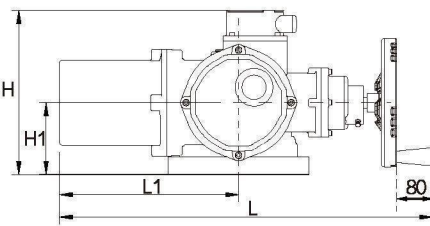
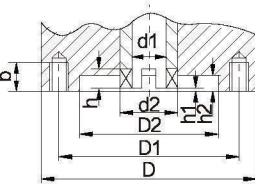
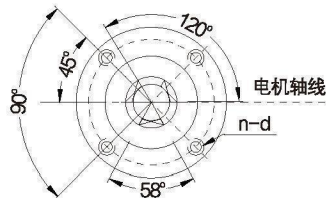
执行器型号 Actuator model	H		H1	W	W1	D	L	L1
	基本型 Basic type	防爆型 Explosion proof type						
Z45/Z60	310	324	130	371	169	250	725	357
Z90/Z120	320	329	140	424	172	250	740	362

性能参数 Performance Parameter

参数 Parameter	型号 Model	ADOK-Z45	ADOK-Z60	ADOK-Z90	ADOK-Z120
	电源 Power Supply	AC380V (常规三相—50Hz) AC380V (conventional three-phase - 50Hz)			
性能 Performance		AC660V, AC440V, AC415V (特殊三相—50Hz、60Hz) AC660V, AC440V, AC415V (special three-phase - 50Hz, 60Hz)			
电机功率 Motor power		1.1w	1.5Kw	2.2Kw	3Kw
额定电流 Rated current		2.5A	3.2A	4.5A	6.3A
输出转矩 Output torque		450N. m	600N.m	90N.m	1200N.m
输出转速 Output speed (r/min)		18/24/36	18/24/36	18/24/36	18/24/36
参考重量 Reference weight		50Kg	53Kg	68Kg	70Kg
基本误差 Fundamental error		≤1%			
防护等级 Degree of protection		IP65、IP67、IP68			
防爆型等级 Explosion proof grade		Exd11 BT4、CT4、CT6(可选) (optional)			
环境温度 Ambient temperature		-30℃~+70℃ (其他温度可定做) (other temperatures can be customized)			
环境湿度 Ambient humidity		≤95%(25°时) (at 25 °)			
电机工作制 Motor working system		额定运行10分钟，F级绝缘 (特殊事件需定做) Rated operation for 10 minutes, Class F insulation (customized for special events)			

Z180/250

多回转基本型系列
Multi turn basic series



产品概述 Product Overview

ADOK-Z基本型电动执行器是我公司在现有成熟产品的基础上自主研发的新一代产品。具有精度高、结构紧凑、防护等级高、外形精美、性能稳定等优点。巧妙的结构设计能满足更多不同运用场景的要求，例如潮湿环境、易燃易爆、高低温（-40~+80℃）场合。产品适用于简单的控制阀门远程开、关场合，电动执行器只提供无源开关接点，无电气控制系统不能独立使用，需配阀门控制箱运行。

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Z系列执行器接口尺寸 Z series actuator interface size

执行器型号 Actuator model	法兰型号 Flange model	D	D1	D2	d1	d2	n-d	b	h	h1	h2
Z180	2#	330	285	220	72	98	4-M26	30	16	3	8
Z250	3#	330	285	220	72	98	4-M26	30	16	3	8

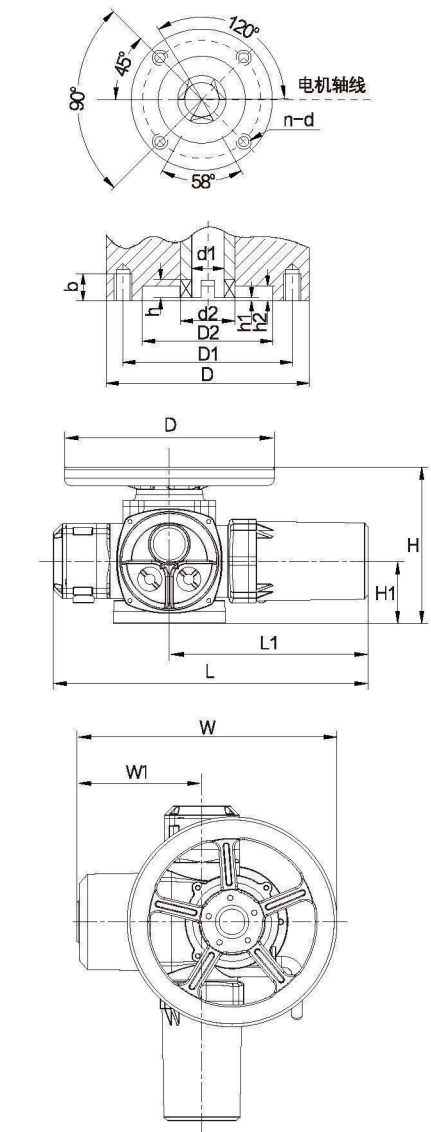
Z系列执行器外形尺寸 Overall dimensions of Z series actuator

执行器型号	H	H1	W	W1	D	L		L1
						基本型 Basic type	防爆型 Explosion proof type	
Z180	330	115	490	200	250	870	880	470
Z250	330	115	490	200	250	880	885	480

性能参数 Performance Parameter

参数 Parameter	型号 Model	ADOK-Z180	ADOK-Z250
	电源 Power Supply	AC380V (常规三相—50Hz) AC380V (conventional three-phase - 50Hz)	
性能 Performance		AC660V, AC440V, AC415V (特殊三相—50Hz、60Hz) AC660V, AC440V, AC415V (special three-phase - 50Hz, 60Hz)	
电机功率 Motor power		5.5Kw	7.5Kw
额定电流 Rated current		12.05A	15.6A
输出转矩 Output torque		1800N.M	2500N.M
输出转速 Output speed (r/min)		18/24	18/24
参考重量 Reference weight		255kg	255kg
基本误差 Fundamental error		≤1%	
防护等级 Degree of protection		IP65、IP67、IP68	
防爆型等级 Explosion proof grade		Exd11 BT4、CT4、CT6(可选) (optional)	
环境温度 Ambient temperature		-30℃~+70℃ (其他温度可定做) (other temperatures can be customized)	
环境湿度 Ambient humidity		≤95%(25°时) (at 25 °)	
电机工作制 Motor working system		额定运行10分钟，F级绝缘 (特殊事件需定做) Rated operation for 10 minutes, Class F insulation (customized for special events)	

·Z10/30
多回转智能型系列
Multi turn intelligent series



产品概述 Product Overview

ADOK-Z智能型电动执行器是在基本型产品基础上自主研发的新一代一体化非侵入式电动执行器。具有精度高、结构紧凑、防护等级高、外形精美、性能稳定、可定制化功能、模块化设计等优点。它吸收了全球同类产品最先进的技术，经过我公司的优化整合后开发的一款高性能智能执行器。产品支持中文、英语、西班牙语、德语、俄语等多种世界通用语言的菜单显示，多种通讯功能可通过不同的方式实现对工业管道阀门的自动化控制，并可实现运行数据储存功能，从而便于对设备及自动化系统进行全面的管理。

ADOK-Z intelligent electric actuator is a new generation of integrated non-invasive electric actuator independently developed on the basis of basic products. It has the advantages of high precision, compact structure, high protection level, beautiful appearance, stable performance, customizable function, modular design, etc. It absorbs the most advanced technology of similar products in the world, and develops a high-performance intelligent actuator after optimization and integration of our company. The product supports menu display in Chinese, English, Spanish, German, Russian and other world common languages. Multiple communication functions can realize automatic control of industrial pipeline valves in different ways, and can realize the function of operating data storage, so as to facilitate comprehensive management of equipment and automation system.

Z系列执行器接口尺寸 Z series actuator interface size

执行器型号 Actuator model	法兰型号 Flange model	D	D1	D2	d1	d2	n-d	b	h	h1	h2
Z10/Z15	2#	145	120	90	30	45	4-M10	20	8	2	5
Z20/Z30	3#	185	160	125	42	58	4-M12	20	10	2	5

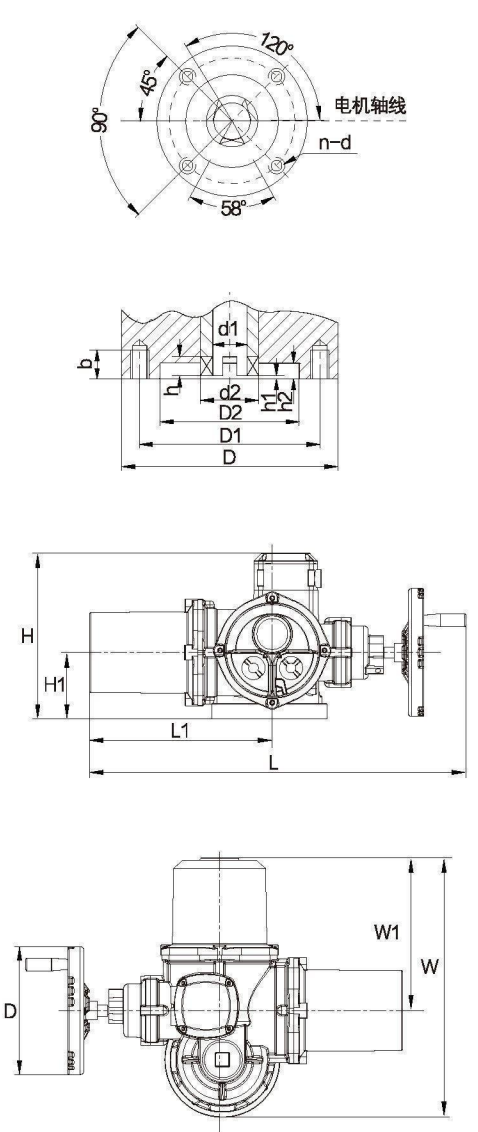
Z系列执行器外形尺寸 Overall dimensions of Z series actuator

执行器型号 Actuator model	H	H1	W	W1	D	L		L1
						智能 intelligence	智能防爆 intelligent explosion-proof	
Z10/Z15	235	67	375	200	280	410	424	225
Z20/Z30	255	105	427	210	350	510	524	320

性能参数 Performance Parameter

参数 Parameter	型号 Model	ADOK-Z10	ADOK-Z15	ADOK-Z20	ADOK-Z30
	电源 Power Supply	AC380V (常规三相—50Hz) AC380V (conventional three-phase - 50Hz) AC220V (常规单相—50Hz) AC220V (conventional single-phase - 50Hz)	AC660V, AC440V, AC415V (特殊三相—50Hz, 60Hz) AC660V, AC440V, AC415V (special three-phase - 50Hz, 60Hz) AC110V (特殊单相—50Hz, 60Hz) AC110V (special single-phase - 50Hz, 60Hz)	AC660V, AC440V, AC415V (特殊三相—50Hz, 60Hz) AC660V, AC440V, AC415V (special three-phase - 50Hz, 60Hz) AC110V (特殊单相—50Hz, 60Hz) AC110V (special single-phase - 50Hz, 60Hz)	AC660V, AC440V, AC415V (特殊三相—50Hz, 60Hz) AC660V, AC440V, AC415V (special three-phase - 50Hz, 60Hz) AC110V (特殊单相—50Hz, 60Hz) AC110V (special single-phase - 50Hz, 60Hz)
电机功率 Motor power	性能 Performance	0.25Kw	0.37Kw	0.55Kw	0.75Kw
额定电流 Rated current		0.9A	1.05A	1.3A	1.8A
输出转矩 Output torque		100N. m	150N.m	200N.m	300N.m
输出转速 Output speed (r/min)		18/24/36	18/24/36	18/24/36	18/24/36
参考重量 Reference weight		16Kg	18Kg	24Kg	28Kg
基本误差 Fundamental error		≤1%			
防护等级 Degree of protection		IP65、IP67、IP68			
防爆型等级 Explosion proof grade		Exd11 BT4、CT4、CT6(可选) (optional)			
环境温度 Ambient temperature		-30°C~+70°C (其他温度可定做) (other temperatures can be customized)			
环境湿度 Ambient humidity		≤95%(25°时) (at 25 °)			
电机工作制 Motor working system		额定运行10分钟, F级绝缘 (特殊事件需定做) Rated operation for 10 minutes, Class F insulation (customized for special events)			

-Z45/120
多回转智能型系列
Multi turn intelligent series



产品概述 Product Overview

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Z系列执行器接口尺寸 Z series actuator interface size

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Z45/Z60	4#	225	195	150	50	73	4-M16	30	13	2	5
Z90/Z120	5#	275	235	180	63	83	4-M18	34	13	2	5

Z系列执行器外形尺寸 Overall dimensions of Z series actuator

执行器型号 Actuator model	H		H1	W	W1	D	L	L1
	智能 intelligence	智能防爆 intelligent explosion-proof						
Z45/Z60	310	324	130	487	279	250	725	357
Z90/Z120	320	329	140	534	282	250	740	362

性能参数 Performance Parameter

参数 Parameter	型号 Model	ADOK-Z45	ADOK-Z60	ADOK-Z90	ADOK-Z120
	电源 Power Supply	AC380V (常规三相—50Hz) AC380V (conventional three-phase - 50Hz) AC220V (常规单相—50Hz) AC220V (conventional single-phase - 50Hz)	AC660V, AC440V, AC415V (特殊三相—50Hz, 60Hz) AC660V, AC440V, AC415V (special three-phase - 50Hz, 60Hz) AC110V (特殊单相—50Hz, 60Hz) AC110V (special single-phase - 50Hz, 60Hz)	AC660V, AC440V, AC415V (特殊三相—50Hz, 60Hz) AC660V, AC440V, AC415V (special three-phase - 50Hz, 60Hz) AC110V (特殊单相—50Hz, 60Hz) AC110V (special single-phase - 50Hz, 60Hz)	AC660V, AC440V, AC415V (特殊三相—50Hz, 60Hz) AC660V, AC440V, AC415V (special three-phase - 50Hz, 60Hz) AC110V (特殊单相—50Hz, 60Hz) AC110V (special single-phase - 50Hz, 60Hz)
电机功率 Motor power	性能 Performance	1.1Kw	01.5Kw	2.2Kw	3Kw
额定电流 Rated current		2.5A	3.2A	4.5A	6.3A
输出转矩 Output torque		450N. m	600N.m	90N.m	1200N.m
输出转速 Output speed (r/min)		18/24/36	18/24/36	18/24/36	18/24/36
参考重量 Reference weight		50Kg	53Kg	68Kg	70Kg
基本误差 Fundamental error		≤1%			
防护等级 Degree of protection		IP65、IP67、IP68			
防爆型等级 Explosion proof grade		Exd11 BT4、CT4、CT6(可选) (optional)			
环境温度 Ambient temperature		-30°C~+70°C (其他温度可定做) (other temperatures can be customized)			
环境湿度 Ambient humidity		≤95%(25°时) (at 25 °)			
电机工作制 Motor working system		额定运行10分钟, F级绝缘 (特殊事件需定做) Rated operation for 10 minutes, Class F insulation (customized for special events)			

产品概述 Product Overview

ADOK-Z智能型电动执行器是在基本型产品基础上自主研发的新一代一体化非侵入式电动执行器。具有精度高、结构紧凑、防护等级高、外形精美、性能稳定、可定制化功能、模块化设计等优点。它吸收了全球同类产品最先进的技术，经过我公司的优化整合后开发的一款高性能智能执行器。产品支持中文、英语、西班牙语、德语、俄语等多种世界通用语言的菜单显示，多种通讯功能可通过不同的方式实现对工业管道阀门的自动化控制，并可实现运行数据储存功能，从而便于对设备及自动化系统进行全面的管理。

ADOK-Z intelligent electric actuator is a new generation of integrated non-invasive electric actuator independently developed on the basis of basic products. It has the advantages of high precision, compact structure, high protection level, beautiful appearance, stable performance, customizable function, modular design, etc. It absorbs the most advanced technology of similar products in the world, and develops a high-performance intelligent actuator after optimization and integration of our company. The product supports menu display in Chinese, English, Spanish, German, Russian and other world common languages. Multiple communication functions can realize automatic control of industrial pipeline valves in different ways, and can realize the function of operating data storage, so as to facilitate comprehensive management of equipment and automation system.

Z系列执行器接口尺寸 Z series actuator interface size

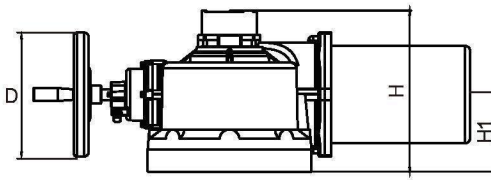
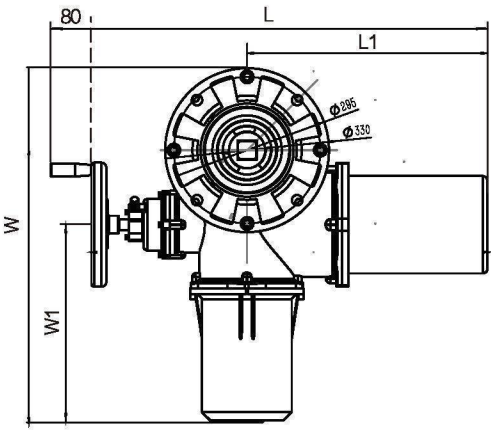
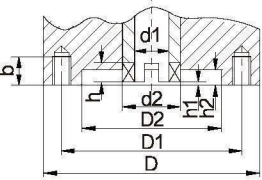
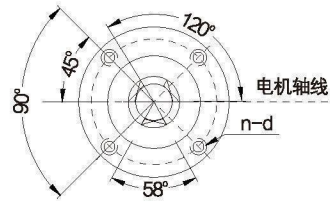
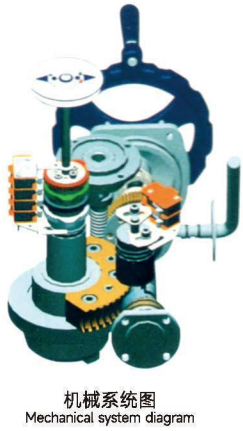
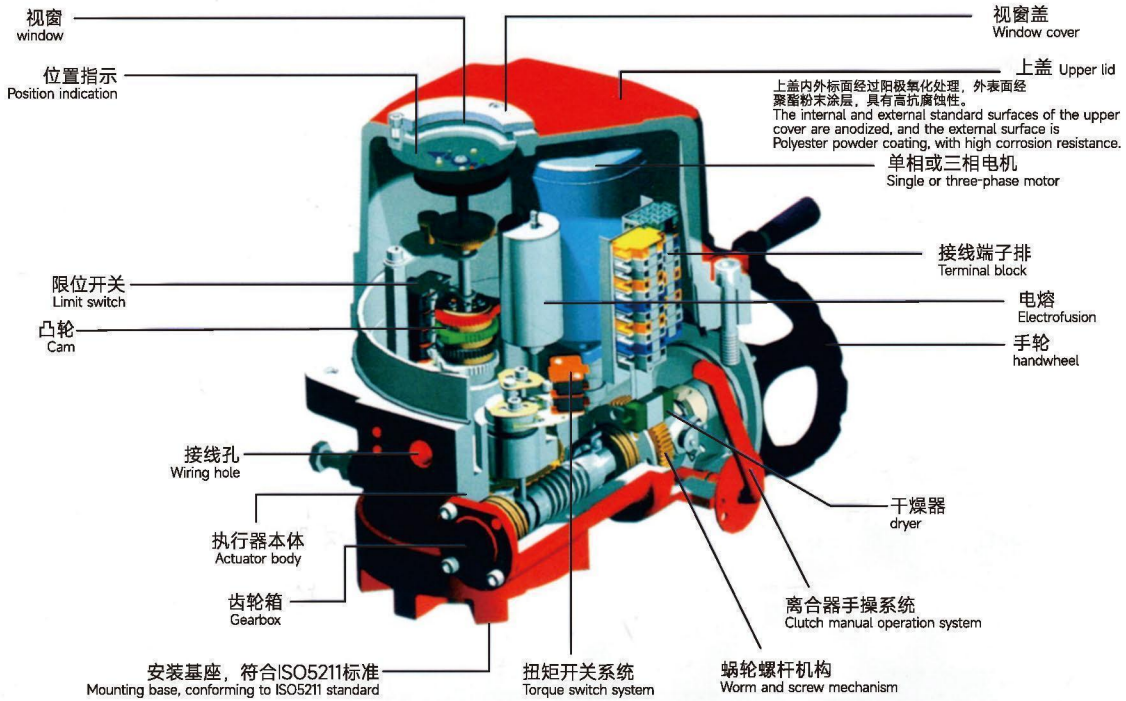
执行器型号 Actuator model	法兰型号 Flange model	D	D1	D2	d1	d2	n-d	b	h	h1	h2
Z180	4#	330	285	220	72	98	4-M26	30	16	3	8
Z250	5#	330	285	220	72	98	4-M26	30	16	3	8

Z系列执行器外形尺寸 Overall dimensions of Z series actuator

执行器型号 Actuator model	H		H1	W	W1	D	L	L1
	智能 intelligence	智能防爆 Intelligent explosion-proof						
Z180	330	340	115	600	310	250	870	470
Z250	330	340	115	600	310	250	880	480

性能参数 Performance Parameter

参数 Parameter	型号 Model	ADOK-Z180	ADOK-Z250
	电源 Power Supply	AC380V (常规三相—50Hz) AC380V (conventional three-phase - 50Hz) AC220V (常规单相—50Hz) AC220V (conventional single-phase - 50Hz)	AC660V, AC440V, AC415V (特殊三相—50Hz, 60Hz) AC660V, AC440V, AC415V (special three-phase - 50Hz, 60Hz) AC110V (特殊单相—50Hz, 60Hz) AC110V (special single-phase - 50Hz, 60Hz)
电机功率 Motor power	性能 Performance	5.5Kw	7.5Kw
额定电流 Rated current		12.05A	15.6A
输出转矩 Output torque		1800N.M	2500N.M
输出转速 Output speed (r/min)		18/24	18/24
参考重量 Reference weight		255kg	255kg
基本误差 Fundamental error		≤1%	
防护等级 Degree of protection		IP65、IP67、IP68	
防爆等级 Explosion proof grade		Exd11 BT4、CT4、CT6(可选) (optional)	
环境温度 Ambient temperature		-30℃~+70℃ (其他温度可定做) (other temperatures can be customized)	
环境湿度 Ambient humidity		≤95%(25°时) (at 25 °)	
电机工作制 Motor working system		额定运行10分钟, F级绝缘 (特殊事件需定做) Rated operation for 10 minutes, Class F insulation (customized for special events)	



产品概述 Product Overview

“ADOK-QT” 系列电动执行器用于控制0°~90° 旋转的阀门及其它同类产品，如蝶阀、球阀、风阀、挡板产代、旋塞阀、百叶阀等，可以广泛应用于石油、化工、水处理、船舶、造纸、电站、供暖供热、楼宇自控、轻工等各行各业中。它以380V/220V/110V交流电源、DC24V直流电源为驱动电源，以4-20mA电流信号或0-10V DC电压信号为控制信号，可使阀门运动到所需位置，实现其自动化控制，最大输出扭矩达5000N.M。(该产品已获得Ex与防爆认证证书，产品质量具有保障)。

“ADOK-QT” series electric actuators are used to control valves with 0 °~90 ° rotation and other similar products, such as butterfly valves, ball valves, air valves, baffle manufacturers, plug valves, louver valves, etc. They can be widely used in petroleum, chemical, water treatment, shipping, paper making, power stations, heating and heating, building automation, light industry and other industries. It uses 380V/220V/110V AC power supply, DC24V DC power supply as the driving power supply, 4-20mA current signal or 0-10V DC voltage signal as the control signal, which can make the valve move to the required position to achieve its automatic control. The maximum output torque reaches 5000N. M. (The product has obtained Ex and explosion-proof certificates, and the product quality is guaranteed).

性能特点 Product Overview

1、壳体

壳体为硬质铝合金，经阳极氧化处理和聚脂粉末涂层，耐腐蚀性强，防护等级为IP67NEMA4和6，并有IP68和防爆型供选择。

2、电机

全封闭式鼠笼式电机、体积小、扭矩大、惯性力小，绝缘等级为F级，内置过热保护开关，可防止过热损坏电机。

3、手动结构

手轮的设计保证安全可靠、省力、体积小。不通电时，扳动离合器手柄可进行手动操作。通电时，离合器自动复位。(注：在电机不通电的状况下，电动执行器将保持永久手动状态)

4、指示器

指示器安装在中心轴上，可以观察阀门位置。镜面采用凸透镜设计，不积水，观察更方便。

5、干燥器

用来控制温度，防止由于温度和天气变化导致执行器内部水分凝结，保持内部电气元件的干燥。

6、限位开关

机械，电子双重限位。机械限位螺钉可调，安全可靠；电子限位开关由凸轮机构来控制，简单的调整机构能精确并方便地设定位置。无需电池支持。（微动开关接点均为银质触点）

7、可提供过载保护

(QT-005/008/010除外)，在阀门卡涩，有异物时，自动断开电机电源，更有效的保护阀门和电动执行器不受损坏。(出厂前已设定好，请用户不要随意更改设置)

8、自锁

精密的双蜗轮蜗杆机构可高度效传输大扭矩，效率高，噪音低(最大50分贝)，寿命长有自锁功能，防止反转，传动部分稳定可靠，出厂已经加满高效润滑脂，使用无需再加油。

9、防脱螺栓

拆除外壳时，螺栓附在壳体上，不会脱落。外部螺栓均采用不锈钢材质。

10、安装

询问安装尺寸符合ISO5211国际标准，驱动轴套可拆下根据需要进行加工，适应性强，可以垂直安装，也可以水平安装。

11、线路

控制线路符合单相或三相电源标准，线路布置紧凑合理，接线端子可有效满足各种附加功能的要求。阅开关到位均有无源接点输出(可根据客户要求另行加工)。

12、智能模块

采用集成度高，功耗很低很低的单片机与模拟电路混合的控制板，更采用全金属外挂式安装,使执行器电机热源与控制板有效隔离，很大程度地提高了软件及硬件的抗干扰性能及耐温性。

13、两位数字显示

执行器在打开或关闭过程中，阀位的变化在液晶屏上以大数字方式实时显示。

14、相序自动调整

智能型执行器自动检测接入的三相电源相序，无需用户考虑三相电源的相序问题。

1. Housing

The shell is made of hard aluminum alloy, anodized and coated with polyester powder, with strong corrosion resistance. The protection grade is IP67NEMA 4 and 6, and IP68 and explosion-proof types are available.

2. Motor

Totally enclosed squirrel cage motor, small size, large torque, small inertia force, insulation class F, built-in overheating protection switch, can prevent overheating damage to the motor.

3. Manual structure

The handwheel is designed to ensure safety, reliability, labor saving and small size. When the power is off, pull the clutch handle for manual operation. The clutch resets automatically when energized. (Note: when the motor is not powered on, the electric actuator will remain permanently manual)

4. Indicator

The indicator is mounted on the central shaft to observe the valve position. The convex lens design is adopted for the mirror surface to prevent water accumulation and facilitate observation.

5. Dryer

It is used to control the temperature, prevent moisture condensation in the actuator due to temperature and weather changes, and keep the internal electrical components dry.

6. Limit switch

Mechanical and electronic double limit. The mechanical limit screw is adjustable, safe and reliable; The electronic limit switch is controlled by a cam mechanism, and the simple adjustment mechanism can set the position accurately and conveniently. No battery support required. (The contacts of microswitch are all silver contacts)

7. Overload protection available

(except for QT-005/008/010), when the valve is jammed and there are foreign matters, the motor power supply will be automatically disconnected to effectively protect the valve and electric actuator from damage. (It has been set before leaving the factory, please do not change the setting at will)

8. Self-locking

The precise double worm gear mechanism can transmit high torque with high efficiency, high efficiency, low noise (maximum 50 decibels), long service life, self-locking function, anti reverse rotation, stable and reliable transmission part, and high efficiency grease has been filled before delivery, so no oil is needed for use.

9. Anti falling bolt

When removing the housing, the bolts are attached to the housing and will not fall off. The external bolts are made of stainless steel.

10. Installation

The installation dimension meets the ISO5211 international standard. The drive shaft sleeve can be disassembled and processed according to needs. It has strong adaptability and can be installed vertically or horizontally.

11. Line

The control circuit shall comply with single-phase or three-phase power supply standards, the circuit layout shall be compact and reasonable, and the terminal blocks can effectively meet the requirements of various additional functions. There are passive contact outputs when the valve switch is in place (can be processed separately according to customer requirements).

12. Intelligent module

The control board with high integration, low power consumption and analog circuit is adopted, and the all metal external mounting is adopted to effectively isolate the actuator motor heat source from the control board, which greatly improves the anti-interference performance and temperature resistance of software and hardware.

13. Digital display of valve position

During the opening or closing process of the actuator, the change of the valve position is displayed on the LCD screen in real time in large numbers.

14. Automatic adjustment of phase sequence

The intelligent actuator automatically detects the phase sequence of the connected three-phase power supply, without requiring users to filter the phase sequence of the three-phase power supply.

技术参数及规格 Technical parameters and specifications

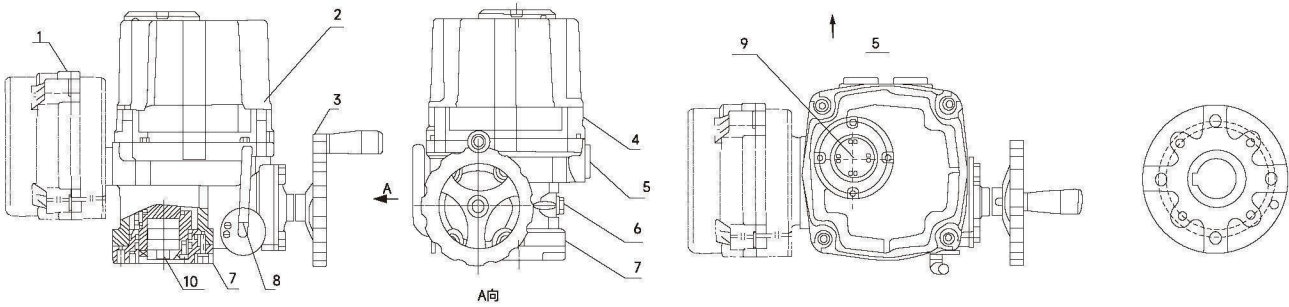
电机电源 Motor Power Supply	标准: 220V AC单相 可选: 110V AC单相, 380/440V AC,AC220-660V 三相, 50/60Hz.±10% 24V DC/110V DC/220V DC Standard: 220V AC single-phase Optional: 110V AC single-phase, 380/440V AC, AC220-660V Three phase, 50/60Hz, ± 10% 24V DC/110V DC/220V DC	
电机 Electric Machinery	鼠笼式异步电机 Squirrel cage asynchronous motor	
限位开关 Limit Switch	开/关, 各1个 On/off, 1 each	
辅助限位开关 Auxiliary Limit Switch	开/关, 各1个 On/off, 1 each	
扭矩开关 Torque Switch	开/关, 各1个 On/off, 1 each	ADOK-QT08/15除外 Except ADOK-QT08/15
行程 Trip	90°± 10°	0°~27°可选 0 °~27 ° optional
失速防护/操作温度 Stall Protection/operating Temperature	内置过热保护, 115°C±5°C/关97°C±5°C Built-in overheating protection, 115°C±5°C/off 97°C±5°C	
指示器 Indicator	连续的位置指示刻度 Continuous position indication scale	
手动操作 Manual Operation	机械离合机构, 配手轮操作 Mechanical clutch mechanism with handwheel operation	
自锁装置 Self Locking Device	蜗轮, 蜗杆机构提供自锁 Worm gear and worm mechanism provide self-locking	
机械限位 Mechanical Limit	2个外部调整螺栓 2 external adjusting bolts	
干燥器 Dryer	7-10W(110/220V AC)	
接线孔 Wiring Hole	2个PE3/4"	
环境温度 Ambient Temperature	-20°C~+70°C	
润滑 Lubrication	铝基润滑脂(EP型) Aluminum base grease (EP type)	
材料 Material Science	钢, 铝合金, 铝青铜, 聚碳酸酯 Steel, aluminum alloy, aluminum bronze, polycarbonate	
环境湿度 Ambient Humidity	最大90%不大于95% Maximum 90% not more than 95%	非凝结 non-condensing
搞震性能 Shockability	XYZ10g,0.2~34Hz,30分钟 Minute	
外涂层 External Coating	干粉, 环氧树脂, 具有超强防腐功能 Dry powder, epoxy polyester, with super anti-corrosion function	

可选规格 Optional Specifications

编号 Numbering	可选配置 Optional configuration	备注 remarks
1	防爆执行器(ExdII CT5) Explosion proof actuator (ExdII CT5)	ADOK-QT系列 Series
2	防水执行器(IP68, 10M,250HR) Waterproof actuator (IP68, 10M, 250HR)	ADOK-QT系列 Series
3	电位计(1K-10K) Potentiometer (1K-10K)	ADOK-QT系列 Series
4	比例控制单元(输入, 输出信号)4-20mA DC/1-5V/1- 10V Proportional control unit (input, output signal) 4-20mA DC/1-5V/1 - 10V	ADOK-QT系列 Series
5	现场控制单元(就地控制开/停/关选择开关, 就地/远程切换) Field control unit (local control on/off/off selector switch, local/remote switching)	ADOK-QT系列 Series
6	(行程 Stroke120°, 80°, 270°) 90°	ADOK-QT系列 Series
7	直流电机(24V DC) motor (24V DC)	ADOK-QT系列 Series
8	附加扭矩开关(SPKT X2 250V AC 10A) Additional torque switch (SPKT X2 250V AC 10A)	ADOK-QT08/15除外 Except
9	电流位置传感器(输出4-20mA DC) Current position sensor (output 4-20mA DC)	ADOK-QT系列 Series
10	断电后, 电动阀自动开或关控制柜 After power failure, the electric valve automatically opens or closes the control cabinet	ADOK-QT系列 Series
11	耐高温执行器(-10°C~+100°C) High temperature resistant actuator (- 10 °C~+100 °C)	ADOK-QT系列 Series
12	耐低温执行器(-40°C~+70°C) Low temperature resistant actuator (- 40°C~+70°C)	ADOK-QT系列 Series
13	低速执行器 Low speed actuator	ADOK-QT系列 Series

电动防爆执行机构
Electric explosion-proof actuator

电动防爆执行机构
Electric explosion-proof actuator



结构 Structure

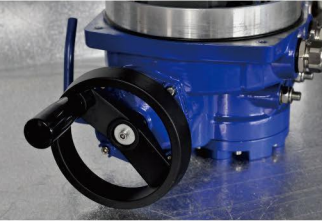
电动执行器主要由以下几部分组成:
壳体部分:包括外壳及底座部分;
驱动部分:以高性能全封闭鼠笼式电机为动力源;
传动机构:双蜗轮与离合器部分;
比例控制部分:与机械部分分离, 提高可靠性;
力矩开关与限位开关部分;
开度检测与反馈部分。

The electric actuator is mainly composed of the following parts:
Shell part: including shell and base part;
Driving part: high performance totally enclosed squirrel cage motor as power source;
Transmission mechanism: double worm gear and clutch;
Proportional control part: separate from mechanical part to improve reliability;
Torque switch and limit switch;
Opening detection and feedback part.

零件 Spare parts

1	控制室 control room
2	外罩 a housing
3	手轮 handwheel
4	壳体 housing
5	线揽接入堵头 Cable access plug
6	机械限位螺钉 Mechanical limit screw
7	连接法兰 Connecting flange
8	离合器手柄 Clutch handle
9	视窗 window
10	输出轴 output shaft

标准件结构 Standard part construction



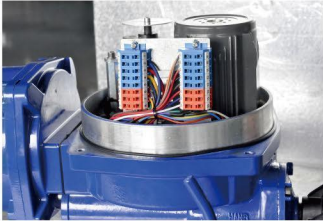
手动操作(离合器系统)
-断电后切换手轮开关操作
-通电后手动部位自动复位

Manual operation (clutch system)
-Switch the handwheel switch after power failure
-Automatic reset of manual position after power on



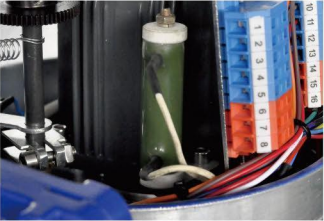
凸轮及限位开关
-由两个螺丝在上面紧固, 设置简单
-每个凸轮可单独设置
-一旦完成设置, 每个凸轮会永远保持在此位置

Cam and limit switch
-It is fastened by two screws, and the setting is simple
-Each cam can be set separately
-Once set, each cam will remain in this position forever



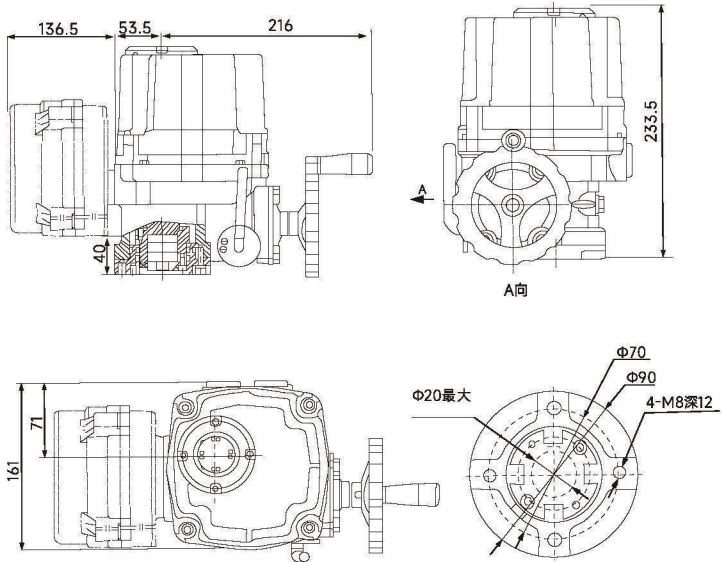
接线端子排
-有足够的端子, 使用户使用方便
-能保证坚固, 牢靠的电线连接
-子端子长X宽: 8X2.5mm
-总端子尺寸: 10X22X32mm

Terminal block
-There are enough terminals to make it convenient for users
-Ensure firm and reliable wire connection
-Sub terminal length X width: 8X2.5mm
-Total terminal size: 10X22X32mm



干燥器
-7~ 10W,由陶瓷制成, 同时作为恒温调节器
-调节温度, 防止过热
-没有漏电的危险

desiccator
-7~ 10W, made of ceramics, while acting as a thermostat
-Adjust the temperature to prevent overheating
- There is no risk of leakage



圆 Round	方 Square	深 Deep
Φ12.6	11X11	30
Φ15.8	14X14	

ADOK-QT10系列外型尺寸及性能参数 Overall dimensions and performance parameters of ADOK-QT10 series

性能 Performance	产品型号 Product model	ADOK-QT10				
	电源 Power Supply	DC24V	AC24V	AC110V	AC220V	AC380V
电机功率 Motor power		28W	30W	30W	30W	30W
额定电流 Rated current		6A	5. 2A	0. 96A	0. 46A	0. 4A
输出力矩 Output torque		110N.M	110N.M	110N.M	120N.M	120N.M
标准运行时间 Standard operating time		15S	22S	22S	22S	22S
外壳 Housing		防护等级IP65/IP67, 防爆等级(ExdII CT5) Protection grade IP65/IP67, explosion-proof grade (ExdII CT5)				
转动角度 Rotation angle		0-90°、0-180°、0-270°、0-360°				
重量 weight		13KG				
耐压等级 Withstand voltage level		1800VAC每分钟 1800VAC per minute				
绝缘电阻 insulation resistance		100MQ/500VDC				
安装角度 Installation angle		ISO5211国际标准, 可垂直或水平安装 ISO5211 international standard, can be installed vertically or horizontally				
轴体材质 Shaft material		钠, 铝合金, 铝青铜, 聚碳酸酯 Sodium, aluminum alloy, aluminum bronze, polycarbonate				
电机电源 Motor power supply		单相: AC 220V/110V/24V 50/60Hz±10%、三相: AC 380V 50/60Hz±10%、直流: DC24V±10% Single phase: AC 220V/110V/24V 50/60Hz ± 10%, three-phase: AC 380V 50/60Hz ± 10%, DC: DC24V ± 10%				
工作环境 work environment		环境温度: -20~+60°C、环境湿度:最大90%RH(25°C无冷凝)、海拔高度:不大于1000m、工作制:短时十分钟、 无强腐蚀性介质、无强烈振动工况、非防爆型产品不得在有爆炸性混合气体的环境中使用 Ambient temperature: -20~+60 ° C, ambient humidity: maximum 90% RH (25 ° C, non condensing), altitude: no more than 1000m, working system: 10 minutes in a short time Non explosion proof products without strong corrosive media, strong vibration conditions shall not be used in the environment with explosive mixed gases				

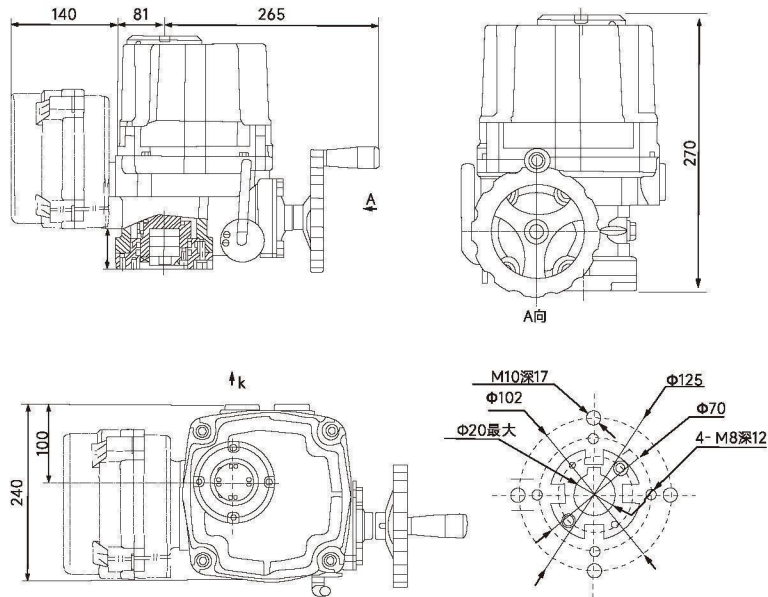
QT20

电动防爆执行机构
Electric explosion-proof actuator

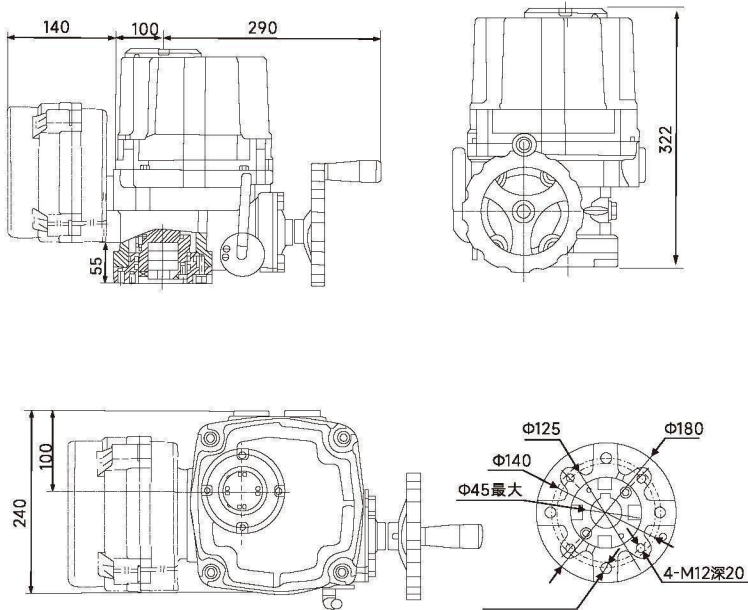
QT40/60

电动防爆执行机构
Electric explosion-proof actuator

ROUWO



圆 Round	方 Square	深 Deep
Φ19	17X17	35
Φ22		



圆 Round	方 Square	深 Deep
Φ22	22X22	45
Φ28.5		
Φ31.8		

ADOK-QT20系列外型尺寸及性能参数 Overall dimensions and performance parameters of ADOK-QT20 series

性能 Performance	产品型号 Product model	ADOK-QT20				
	电源 Power Supply	DC24V	AC24V	AC110V	AC220V	AC380V
	电机功率 Motor power	45W	45W	50W	50W	50W
	额定电流 Rated current	7.5A	6.8A	1.32A	0.52A	0.28A
	输出力矩 Output torque	200N.M	220N.M	220N.M	220N.M	220N.M
	标准运行时间 Standard operating time	15S	24S	24S	24S	24S
	外壳 Housing	防护等级IP65/IP67, 防爆等级(ExdIICT5) Protection grade IP65/IP67, explosion-proof grade (ExdIICT5)				
	转动角度 Rotation angle	0-90°、0-180°、0-270°、0-360°				
	重量 weight	17KG				
	耐压等级 Withstand voltage level	1800VAC每分钟 1800VAC per minute				
	绝缘电阻 insulation resistance	100MΩ/500VDC				
	安装角度 Installation angle	ISO5211国际标准, 可垂直或水平安装 ISO5211 international standard, can be installed vertically or horizontally				
	轴体材质 Shaft material	钠, 铝合金, 铝青铜, 聚碳酸酯 Sodium, aluminum alloy, aluminum bronze, polycarbonate				
	电机电源 Motor power supply	单相: AC 220V/110V/24V 50/60Hz±10%、三相: AC 380V 50/60Hz±10%、直流: DC24V±10% Single phase: AC 220V/110V/24V 50/60Hz ± 10%, three-phase: AC 380V 50/60Hz ± 10%, DC: DC24V ± 10%				
	工作环境 work environment	环境温度: -20~+60°C、环境湿度:最大90%RH(25°C,无冷凝)、海拔高度:不大于1000m、工作制:短时十分钟、 无强腐蚀性介质、无强烈振动工况、非防爆型产品不得在有爆炸性混合气体的环境中使用 Ambient temperature: - 20~+60 °C, ambient humidity: maximum 90% RH (25 °C, non condensing), altitude: no more than 1000m, working system: 10 minutes in a short time Non explosion proof products without strong corrosive media, strong vibration conditions shall not be used in the environment with explosive mixed gases				

ADOK-QT40/60系列外型尺寸及性能参数 Overall dimensions and performance parameters of ADOK-QT40/60 series

性能 Performance	产品型号 Product model	ADOK-QT40					ADOK-QT60					
		电源 Power Supply	DC24V	AC24V	AC110V	AC220V	AC380V	DC24V	AC24V	AC110V	AC220V	AC380V
	电机功率 Motor power		90W	90W	90W	90w	90w	120W	120W	120W	120W	120W
	额定电流 Rated current		9.2A	8.5A	2.4A	0.98A	0.56A	11A	9.6A	3A	1.12A	0.6A
	输出力矩 Output torque		400N.M	400N.M	400N.M	400N.M	400N.M	600N.M	600N.M	600N.M	600N.M	600N.M
	标准运行时间 Standard operating time		15S	25S	25S	25S	25S	15S	29S	29S	29S	29S
	外壳 Housing	防护等级IP65/IP67, 防爆等级(ExdII CT5) Protection grade IP65/IP67, explosion-proof grade (ExdII CT5)										
	转动角度 Rotation angle	0-90°、0-180°、0-270°、0-360°										
	重量 weight	20KG						21KG				
	耐压等级 Withstand voltage level	1800VAC每分钟 1800VAC per minute										
	绝缘电阻 insulation resistance	100MΩ/500VDC										
	安装角度 Installation angle	ISO5211国际标准, 可垂直或水平安装 ISO5211 international standard, can be installed vertically or horizontally										
	轴体材质 Shaft material	钠, 铝合金, 铝青铜, 聚碳酸酯 Sodium, aluminum alloy, aluminum bronze, polycarbonate										
	电机电源 Motor power supply	单相: AC 220V/110V/24V 50/60Hz±10%、三相: AC 380V 50/60Hz±10%、直流: DC24V±10% Single phase: AC 220V/110V/24V 50/60Hz ± 10%, three-phase: AC 380V 50/60Hz ± 10%, DC: DC24V ± 10%										
	工作环境 work environment	环境温度: -20~+60°C、环境湿度:最大90%RH(25°C,无冷凝)、海拔高度:不大于1000m、工作制:短时十分钟、 无强腐蚀性介质、无强烈振动工况、非防爆型产品不得在有爆炸性混合气体的环境中使用 Ambient temperature: - 20~+60 ° C, ambient humidity: maximum 90% RH (25 ° C, non condensing), altitude: no more than 1000m, working system: 10 minutes in a short time Non explosion proof products without strong corrosive media, strong vibration conditions shall not be used in the environment with explosive mixed gases										

-QT100/200

电动防爆执行机构

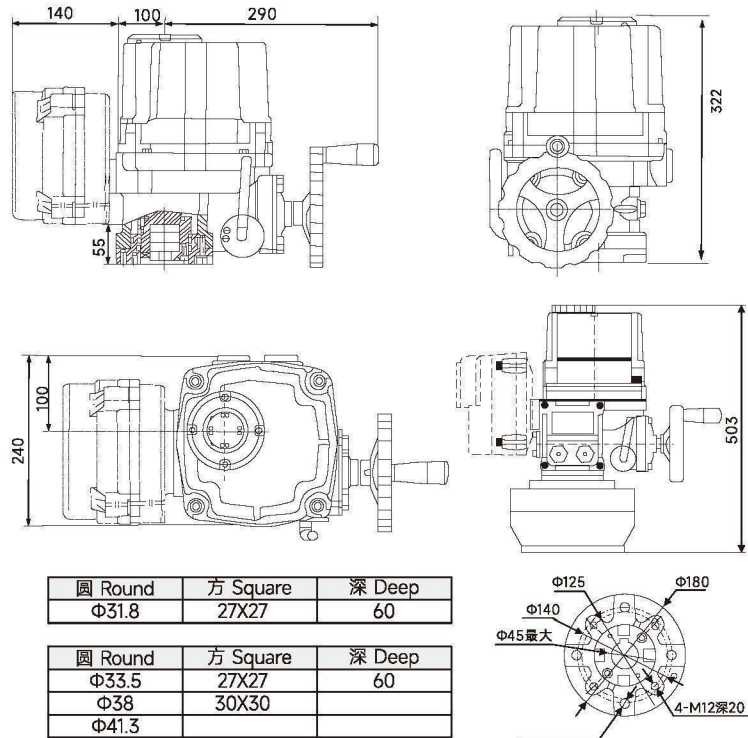
Electric explosion-proof actuator



ADOK-QT100



ADOK-QT200



ADOK-QT100/200系列外型尺寸及性能参数 Overall dimensions and performance parameters of ADOK-QT100/200 series

性能 Performance	产品型号 Product model	ADOK-QT100					ADOK-QT200				
	电源 Power Supply	DC24V	AC24V	AC110V	AC220V	AC380V	DC24V	AC24V	AC110V	AC220V	AC380V
	电机功率 Motor power	200W	200W	200W	200W	200W	200W	200W	200W	200W	200W
	额定电流 Rated current	13A	11.8A	3.8A	1.83A	0.82A	14A	12.5A	4.5A	2.1A	0.9A
	输出力矩 Output torque	800N.M	1000N.M	1000N.M	1000N.M	1000N.M	1800N.M	2000N.M	2000N.M	2000N.M	2000N.M
	标准运行时间 Standard operating time	18S	33S	33S	33S	33S	45S	85S	85S	85S	85S
	外壳 Housing	防护等级IP65/IP67, 防爆等级(ExdII CT5) Protection grade IP65/IP67, explosion-proof grade (ExdII CT5)									
	转动角度 Rotation angle	0-90°、0-180°、0-270°、0-360°									
	重量 weight	30KG					60KG				
	耐压等级 Withstand voltage level	1800VAC每分钟 1800VAC per minute									
	绝缘电阻 insulation resistance	100MΩ/500VDC									
	安装角度 Installation angle	ISO5211国际标准, 可垂直或水平安装 ISO5211 international standard, can be installed vertically or horizontally									
	轴体材质 Shaft material	钠, 铝合金, 铝青铜, 聚碳酸酯 Sodium, aluminum alloy, aluminum bronze, polycarbonate									
	电机电源 Motor power supply	单相: AC 220V/110V/24V 50/60Hz±10%、三相: AC 380V 50/60Hz±10%、直流: DC24V±10% Single phase: AC 220V/110V/24V 50/60Hz ± 10%, three-phase: AC 380V 50/60Hz ± 10%, DC: DC24V ± 10%									
	工作环境 work environment	环境温度: -20~+60°C、环境湿度:最大90%RH(25°C,无冷凝)、海拔高度:不大于1000m、工作制:短时十分钟、 无强腐蚀性介质、无强烈振动工况、非防爆型产品不得在有爆炸性混合气体的环境中使用 Ambient temperature: -20~+60 ° C, ambient humidity: maximum 90% RH (25 ° C, non condensing), altitude: no more than 1000m, working system: 10 minutes in a short time Non explosion proof products without strong corrosive media, strong vibration conditions shall not be used in the environment with explosive mixed gases									

-Ex

精小型防爆系列

Fine and small explosion-proof series

RÜWO

在安装或使用ADOK系列防爆型产品之前, 请您务必详细阅读本说明书。
Please read this manual carefully before installing or using ADOK series explosion-proof products.

1、型号表示方法

Model representation

ADOK-Exab

◎ADOK表示电动执行机构品牌;

◎Ex表示隔爆型电动执行机构;

◎型号规格中“a”的代码表示力矩(数字x10Nm), 包括05、10、20、30、40、60、100、200;

“h”的代码表示控制电路形式, 包括A、B、C、D、E、F和H。

◎产品安全使用注意事项详见产品使用说明书。

示例:ADOK-Ex10A表示ZH系列隔爆型电动执行机构, 力矩为100Nm, 控制电路形式为A型。

ADOK-Exab

◎ADOK represents the brand of electric actuator;

◎Ex indicates flameproof electric actuator;

◎The code of “a” in the model specification indicates the torque (digital x10Nm), including 05, 10, 20, 30, 40, 60, 100, 200;

The code for “h” indicates the control circuit form, including A, B, C, D, E, F, and H.

◎Precautions for safe use of products are detailed in the product instruction manual.

Example: ADOK-Ex10A represents the ZH series flameproof electric actuator with a torque of 100Nm and a control circuit form of Type A.

3.1、防爆等级

Explosion proof grade

本产品的防爆等级为:Exd II CT6

其中:

Ex-防爆标识;

d-防爆类型, 表示为“隔爆型”;

II-设备类别, 表示除煤矿外的其它爆炸性气体环境用电气设备;

C-爆炸级别, 该级别决定执行机构各隔爆结合面的尺寸(宽度和间隙上);

T6-温度组别, 表示允许执行机构最高表面温度为135°C);

在GB3836.1-2010附录B中详细列出了可燃性气体、蒸汽的级别及温度组别。必要时用户可以查阅。

特别注意:该产品使用场所周围的爆炸性介质的种类和组别必须与本产品所允许的防爆介质相一致, 否则起不到防爆作用。

The explosion-proof class of this product is: Exd II CT6

Thereinto:

Ex-explosion-proof mark;

d - explosion-proof type, expressed as “flameproof type”;

II - Equipment category, which indicates electrical equipment for explosive gas environments other than coal mines;

C - explosion level, which determines the dimensions of each flameproof joint surface of the actuator (in width and gap);

T6-temperature group, indicating that the maximum permissible surface temperature of the actuator is 135°C);

In GB3836.1-2010 Appendix B, the level and temperature group of flammable gases and vapors are listed in detail. Users can consult it if necessary.

Special attention: The type and group of explosive media around the place of use of the product must be consistent with the explosion-proof medium allowed by this product, otherwise it will not play an explosion-proof role.

2、防爆结构和防爆性能

Explosion proof structure and explosion-proof performance

ADOK系列防爆产品的隔爆结构符合GB3836.1-2010《爆炸性气体环境用电气设备第1部分:通用要求》及GB3836.2-2010《爆炸性气体环境用电气设备第2部分:隔爆型“d”保护的电气设备》的有关规定。并采用整机隔爆结构。产品各防爆部件组成的防爆外壳可以承受爆炸性气体混合性物在壳内爆炸所产生的爆炸压力, 并可以阻止壳内的爆炸向壳外周围的爆炸性气体环境传播, 即产品内部产生爆炸时不会传播到壳外引爆壳外的爆炸性气体混合物。

The flameproof structure of ADOK series explosion-proof products complies with GB3836.1-2010 “Electrical Equipment for Explosive Gas Atmospheres Part 1: General Requirements” and GB3836.2-2010 “Electrical Equipment for Explosive Gas Atmospheres Part 2: Flameproof “D” protected equipment”. And adopt the whole machine flameproof structure. The explosion-proof shell composed of each explosion-proof component of the product can withstand the explosion pressure generated by the explosion of the explosive gas mixture in the shell, and can prevent the explosion in the shell from spreading to the explosive gas environment around the shell, that is, the explosive gas mixture outside the shell will not be propagated when the explosion inside the product occurs.

3.2、潜在的易爆环境分级

Classification of potential explosive environment

通常爆炸性气体环境用电气设备可分为两类:

I类煤矿用电气设备;

II类除煤矿外的其它爆炸性气体环境用电气设备。

对于II类电气设备, 按照爆炸性气体的最大试验安全间隙(隔爆型)和最小试验引燃电流(本安型)可分为:IIA、IIB、IIC三个爆炸级别, 且IIB类设备可适用于IIA设备的使用条件, IIC类设备可适用于IIA及IIB设备的使用条件。

对于II类电气设备, 按照允许的最高表面温度可分为T1(450°C)、T2(300°C)、T3(200°C)、T4(135°C)、T5(100°C)、T6(85°C)等六个温度组别, 且高一温度组别的设备可适用于低一温度组别的使用条件。

90%以上的爆炸性气体包含在IIA、IIB的爆炸级别和T1-T4的温度组别当中。

Generally, electrical equipment for explosive gas atmosphere can be divided into two categories:

Class I electrical equipment for coal mine;

Class II electrical equipment for explosive gas environment other than coal mine.

For Class II electrical equipment, according to the maximum test safety clearance (flameproof type) and the minimum test ignition current (intrinsically safe type) of explosive gases, it can be divided into three explosion levels: IIA, IIB, and IIC. In addition, Class IIB equipment can apply to the service conditions of Class IIA equipment, and Class IIC equipment can apply to the service conditions of Class IIA and IIB equipment.

For Class I electrical equipment, according to the maximum allowable surface temperature, it can be divided into six temperature groups: T1 (450 °C), T2 (300 °C), T3 (200 °C), T4 (135 °C), T5 (100 °C), T6 (85 °C), and the equipment in the first higher temperature group can be applied to the service conditions in the first lower temperature group.

More than 90% of the explosive gases are included in the IIA, IIB explosion levels and T1-T4 temperature groups.

		温度组别 Temperature group					
		T1(450°C)	T2(300°C)	T3(200°C)	T4(135°C)	T5(100°C)	T6(85°C)
爆炸级别 Explosion level	IIA	丙酮、乙醇、氨、苯、乙酸、甲醇、丙烷、甲苯..... Propyl ester, ethane, ammonia, Benzene, acetic acid, methanol, Propane, toluene	乙醇、丁烷、丁醇、乙醚、二氯乙烷..... Ethanol, butane, Butanol, ethylene Dichloroethane	苯、柴油、航空煤油、乙烷、汽油..... Benzene, diesel Aviation fuel, Ethane, fuel	乙醚 acetaldehyde		
	IIB	燃气 Gas	乙烯、乙烯氧 Ethylene, ethylene oxide		乙醚 Ether		
	IIC	氢 hydrogen	乙炔 acetylene				碳、二硫化物 Carbon and disulfide

1、整体铝合金结构，流畅的线条设计，外观精美大方

1. Overall aluminum alloy structure, smooth line design, elegant appearance

2、产品齐全，配置丰富

Complete products and rich configurations

- 2.1 可选用多种电源输入：单相电源（AC24V、AC110V、AC20V），三相电源（AC380V、AC400V），直流电源（DC12V、DC24V、DC36V、DC110V、DC220V）；
- 2.2 型号齐全：产品力矩覆盖30N.M-2000N.M，选型方便；
- 2.3 功能丰富：开关型，比例型（0-10V/1-5V、4-20MA，智能型（智能调节一体化，智能开关一体化）；
- 2.4 开关时间：可选范围广（5S-75S），满足各种工况需求；
- 2.5 特殊配置：产品全系可选装手轮操控系统，大力矩型号可选装过力矩保护系统。

- 2.1 Multiple power inputs can be selected: single-phase power supply (AC24V, AC110V, AC20V), three-phase power supply (AC380V, AC400V), DC power supply (DC12V, DC24V, DC36V, DC110V, DC220V);
- 2.2 Complete models: the product torque covers 30N. M-2000N. M, and the model selection is convenient;
- 2.3 Rich functions: switch type, proportional type (0-10V/1-5V, 4-20MA, intelligent type (intelligent regulation integration, intelligent switch integration);
- 2.4 Switching time: wide range of options (5S-75S) to meet the requirements of various working conditions;
- 2.5 Special configuration: Handwheel control system is optional for all products, and over torque protection system is optional for large torque models.

4、设计人性化

Humanized design

- 4.1 一体化手轮设计：采用离合器式手轮轴，安全可靠，弹珠式定位，分离结合轻松自如；
- 4.2 接线端子：接线端子用专用端子支架固定，强电弱电端子分开，方便安全。
- 4.1 Integrated handwheel design: clutch type handwheel shaft is used, which is safe and reliable, marble type positioning, and easy to separate and combine;
- 4.2 Terminal blocks: the terminal blocks are fixed with special terminal brackets, and the strong current and weak current terminals are separated for convenience and safety.

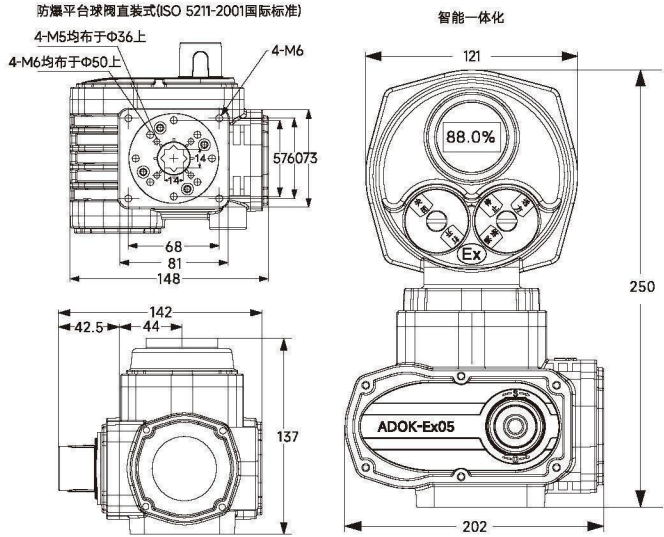
5、智能化，模块化 Intelligent and modular

- 5.1 智能数控：智能控制模块集成于电动执行器本体，无需外接定位器，数字设定，数字整定、高度精确、自我诊断，一机多能；
- 5.2 智能型电动执行器采用集成化、模块化技术，具有性能可靠、功能齐全的特点。集位置反馈、伺服放大于一体，且调整使用格外方便，接线尤其是为简洁，并可扩展通讯接口；
- 5.3 有现场数字显示和手操功能：执行器控制模块带有数字显示屏，能够显示执行器开度；并且能够通过控制模块上的按键，进行现场操作；
- 5.4 有菜单设置功能：智能控制模块具有菜单设置键，通过菜单键可随意设置执行器控制方式、控制精度、保护措施等；
- 5.5 有自调整功能：执行以电气行程（电气零位，满位）确定后，执行器能够自动标定电气零位，满位输出，无须人工调整；
- 5.6 有程序设定上下限功能：可通过按键设定执行器上下限行程；
- 5.7 有断信号设定执行器动作方式功能：执行器可选择在断信号情况下，执行器全开、停止、全闭三种状态；
- 5.8 有电子刹车功能：执行器需停止运转时，控制模块输出一个反转信号，实现电子刹车；
- 5.9 有错误代码指示故障功能：执行器出现故障时，控制模块显示屏显示错误代码，指示故障。
- 5.1 Intelligent numerical control: the intelligent control module is integrated in the electric actuator body, without external positioner, digital setting, digital tuning, highly accurate, self diagnosis, and one machine with multiple functions;
- 5.2 The intelligent electric actuator adopts integrated and modular technology, with reliable performance and complete functions. It integrates position feedback and servo amplifier, and is particularly convenient for adjustment and use. The wiring is especially simple, and the communication interface can be expanded;
- 5.3 There are on-site digital display and manual operation functions: the actuator control module is equipped with a digital display screen, which can display the actuator opening; And the field operation can be carried out through the keys on the control module;
- 5.4 Menu setting function: the intelligent control module has a menu setting key, through which the actuator control mode, control accuracy, protection measures, etc. can be set at will;
- 5.5 Self adjustment function: After the execution is determined by the electrical stroke (electrical zero position, full position), the actuator can automatically calibrate the electrical zero position and output full position without manual adjustment;
- 5.6 The upper and lower limit of the actuator can be set by pressing the key;
- 5.7 Function of setting actuator action mode with breaking signal: the actuator can select three states: fully open, stop and fully closed under the condition of breaking signal;
- 5.8 With electronic braking function: when the actuator needs to stop transmission, the control module outputs a reverse signal to achieve electronic braking;
- 5.9 Fault indication function with error code: when the actuator releases fault, the control module display screen displays error code to indicate fault.

3、性能稳定，质量可靠

Stable performance and reliable quality

- 3.1 稳定性和一致性：先进的设计理念，合理的生产编排，精密的加工工艺，保证了产品的稳定性和一致性；
- 3.2 关键电气元件：采用进口知名品牌，质量稳定可靠；
- 3.3 关键轴承：采用国内知名品牌，采用合理的装配工艺；
- 3.4 电机：采用高性能F级S2长时制防爆电机，过热保护，性能稳定，动力强劲，温升低。
- 3.5 关键传动件：采用合理设计，优质的合金材料，先进的生产工艺流程，精密设备加工，传动误差小，噪音低，耐磨性强；
- 3.6 高级别防爆防护等级：严格按第三方要求设计，防爆等级达到ExdII CT6，防护等级达到IP67/IP68。
- 3.1 Stability and consistency: advanced design concept, reasonable production arrangement and precise processing technology ensure the stability and consistency of products;
- 3.2 Key electrical components: imported well-known brands with stable and reliable quality;
- 3.3 Key bearings: domestic famous brands and reasonable assembly process are adopted;
- 3.4 Motor: high performance class F S2 long time explosion-proof motor, with overheat protection, implicit performance, strong power and low temperature rise.
- 3.5 Key transmission parts: reasonable design, high-quality alloy materials, advanced production process, high-precision equipment processing, small transmission error, low noise, strong wear resistance;
- 3.6 High level explosion-proof protection grade: designed in strict accordance with the requirements of the third party, the explosion-proof grade reaches ExdII CT6, and the protection grade reaches IP67/IP68.



ADOK-Ex05系列外形尺寸及性能参数 Overall dimensions and performance parameters of ADOK-Ex05 series

参数 Parameter		型号 Model		ADOK-Ex05						
性能 Performance		DC12V	DC24V	DC36V	DC110V	DC220V	AC24V	AC110V	AC220V	AC380V
电机功率 Motor power		10W	10W	10W	10W	10W	10W	10W	10W	10W
额定电流 Rated current		2.60A	1.50A	1.00A	0.40A	0.20A	2.4A	0.6A	0.25A	0.15A
标准时间/力矩 Standard time/torque		15S/30Nm					30S/50Nm			
可选时间/力矩 Optional time/torque		7.5S/15Nm 10S/20Nm 15S/30Nm					15S/30Nm 20S/40Nm 30S/50Nm			
回转角度范围 Swing angle range		标准0-90° 可定制0-360°任意角度 Standard 0-90 ° can be customized from 0-360 ° to any angle								
可选控制电路 Optional control circuit		A型/B型/C型/D型/E型/F型/H型/ZT型/ZK型 Type A/B/C/D/E/F/H/ZT/ZK								
整机重量 Operating Weight		3.10kg								
绝缘电阻 insulation resistance		AC24V:100MΩ/250VDC AC110V/AC220V/AC380V:100MΩ/500VDC								
耐压等级 Withstand voltage level		AC24V:500VAC 1分钟, AC110V/AC220V:1500VAC 1分钟, AC380V:1800VAC 1分钟 AC24V: 500VAC for 1 minute, AC110V/AC220V: 1500VAC for 1 minute, AC380V: 1800VAC for 1 minute								
防护等级 Degree of protection		IP 67/IP 68								
防爆等级 Explosion proof grade		ExdII CT6								
安装方法 Installation method		360°任意角度安装 360 ° installation at any angle								
电器接口尺寸 Electrical interface size		外丝1-G1/2, 内丝1-G3/4, 客户使用时建议用Φ9-Φ12电缆线 Outer wire 1-G1/2, inner wire 1-G3/4, recommended by customers Φ 9- Φ 12 cable								
环境温度 ambient temperature		-20℃~+60℃								
选装功能 Optional features		①潜水型②离合器手轮③加热除湿器④过力矩保护⑤断电复位⑥高低温-40℃~+80℃ ① Submersible ② clutch handwheel ③ heating dehumidifier ④ over torque protection ⑤ power off reset ⑥ high and low temperature - 40 °C--+80 °C								

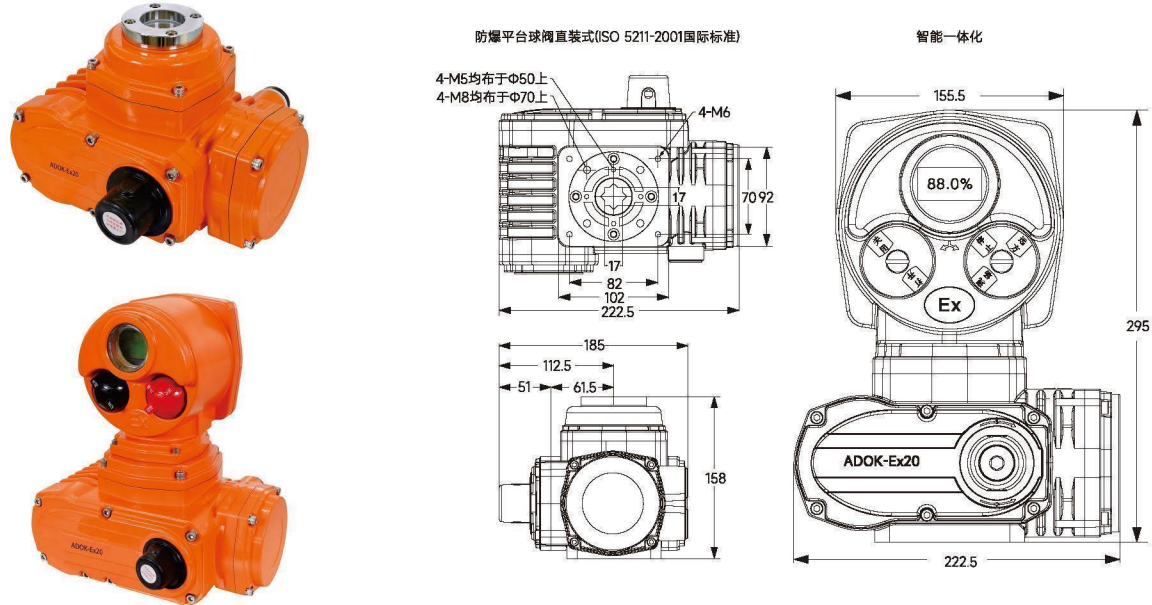
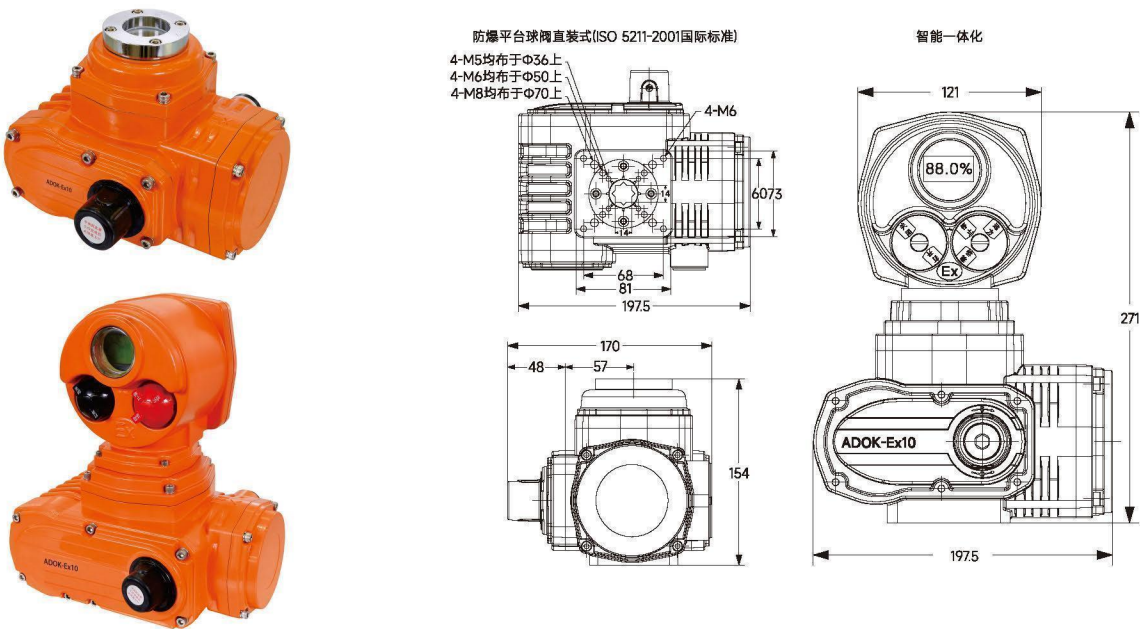
·Ex10

防爆外形与性能参数
Explosion proof appearance and performance parameters

RÜWO

·Ex20

防爆外形与性能参数
Explosion proof appearance and performance parameters



ADOK-Ex10系列外型尺寸及性能参数 Overall dimensions and performance parameters of ADOK-Ex10 series

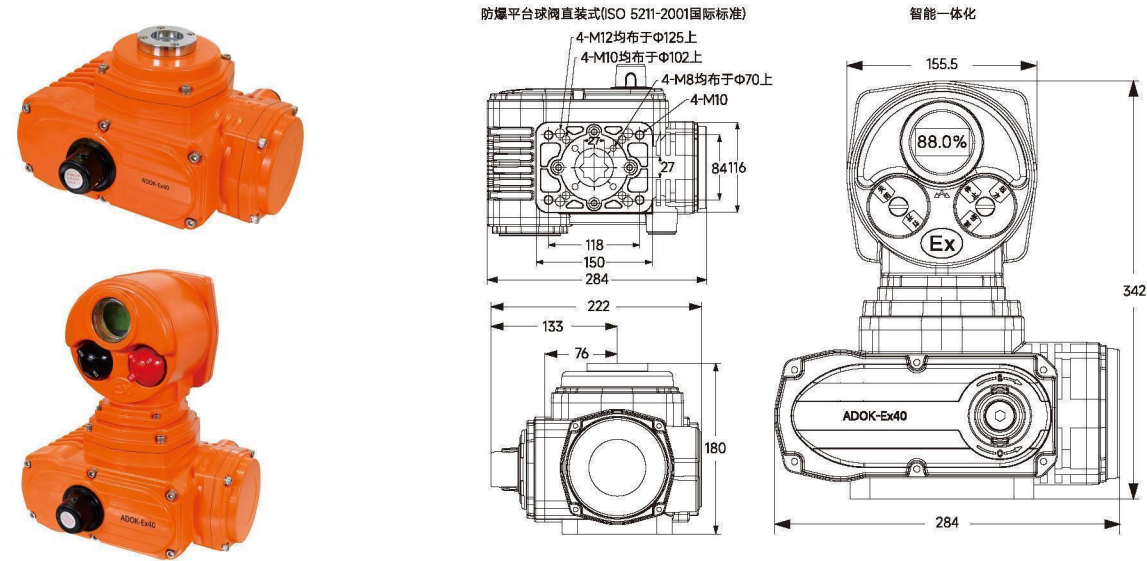
参数 Parameter	型号 Model	ADOK-Ex10								
	电源 Power Supply	DC12V	DC24V	DC36V	DC110V	DC220V	AC24V	AC110V	AC220V	AC380V
性能 Performance										
电机功率 Motor power		20W	20W	20W	20W	20W	20W	20W	20W	20W
额定电流 Rated current		5.0A	2.50A	1.50A	1.10A	0.50A	3.0A	0.7A	0.3A	0.2A
标准时间/力矩 Standard time/torque		17S/40Nm					35S/100Nm			
可选时间/力矩 Optional time/torque		12S/30Nm 17S/40Nm 22S/100Nm					16S/40Nm 25S/60Nm 45S/100Nm			
回转角度范围 Swing angle range		标准0-90° 可定制0-360°任意角度 Standard 0-90° can be customized from 0-360° to any angle								
可选控制电路 Optional control circuit		A型/B型/C型/D型/E型/F型/H型/ZT型/ZK型 Type A/B/C/D/E/F/H/ZT/ZK								
整机重量 Operating Weight		5.15kg								
绝缘电阻 insulation resistance		AC24V:100MΩ/250VDC AC110V/AC220V/AC380V:100MΩ/500VDC								
耐压等级 Withstand voltage level		AC24V:500VAC 1分钟, AC110V/AC220V:1500VAC 1分钟, AC380V:1800VAC 1分钟 AC24V: 500VAC for 1 minute, AC110V/AC220V: 1500VAC for 1 minute, AC380V: 1800VAC for 1 minute								
防护等级 Degree of protection		IP 67/IP 68								
防爆等级 Explosion proof grade		ExdII CT6								
安装方法 Installation method		360°任意角度安装 360° installation at any angle								
电器接口尺寸 Electrical interface size		外丝1-G1/2, 内丝1-G3/4, 客户使用时建议用Φ9-Φ12电缆线 Outer wire 1-G1/2, inner wire 1-G3/4, recommended by customers Φ9-Φ12 cable								
环境温度 ambient temperature		-20℃~+60℃								
选装功能 Optional features		①潜水型②离合器手轮③加热除湿器④过力矩保护⑤断电复位⑥高低温-40℃~+80℃ ① Submersible ② clutch handwheel ③ heating dehumidifier ④ over torque protection ⑤ power off reset ⑥ high and low temperature - 40℃~+80℃								

ADOK-Ex20系列外型尺寸及性能参数 Overall dimensions and performance parameters of ADOK-Ex20 series

参数 Parameter	型号 Model	ADOK-Ex20								
	电源 Power Supply	DC12V	DC24V	DC36V	DC110V	DC220V	AC24V	AC110V	AC220V	AC380V
性能 Performance										
电机功率 Motor power		30W	30W	30W	30W	30W	30W	30W	30W	30W
额定电流 Rated current		6.60A	3.00A	1.60A	0.68A	0.30A	4.00A	0.70A	0.35A	0.20A
标准时间/力矩 Standard time/torque		15S/100Nm					30S/200Nm			
可选时间/力矩 Optional time/torque		3.5s/25Nm 10S/50Nm 15S/100Nm 30S/200Nm					15S/100Nm 20S/120Nm 45S/200Nm 60S/200Nm			
回转角度范围 Swing angle range		标准0-90° 可定制0-360°任意角度 Standard 0-90 ° can be customized from 0-360 ° to any angle								
可选控制电路 Optional control circuit		A型/B型/C型/D型/E型/F型/H型/ZT型/ZK型 Type A/B/C/D/E/F/H/ZT/ZK								
整机重量 Operating Weight		6.70kg								
绝缘电阻 insulation resistance		AC24V:100MΩ/250VDC AC110V/AC220V/AC380V:100MΩ/500VDC								
耐压等级 Withstand voltage level		AC24V:500VAC 1分钟, AC110V/AC220V:1500VAC 1分钟, AC380V:1800VAC 1分钟 AC24V: 500VAC for 1 minute, AC110V/AC220V: 1500VAC for 1 minute, AC380V: 1800VAC for 1 minute								
防护等级 Degree of protection		IP 67/IP 68								
防爆等级 Explosion proof grade		ExdII CT6								
安装方法 Installation method		360°任意角度安装 360 ° installation at any angle								
电器接口尺寸 Electrical interface size		外丝1-G1/2, 内丝1-G3/4, 客户使用时建议用Φ9-Φ12电缆线 Outer wire 1-G1/2, inner wire 1-G3/4, recommended by customers Φ 9- Φ 12 cable								
环境温度 ambient temperature		-20℃~+60℃								
选装功能 Optional features		①潜水型②离合器手轮③加热除湿器④过力矩保护⑤断电复位⑥高低温-40℃~+80℃ ① Submersible ② clutch handwheel ③ heating dehumidifier ④ over torque protection ⑤ power off reset ⑥ high and low temperature - 40 °C~+80 °C								

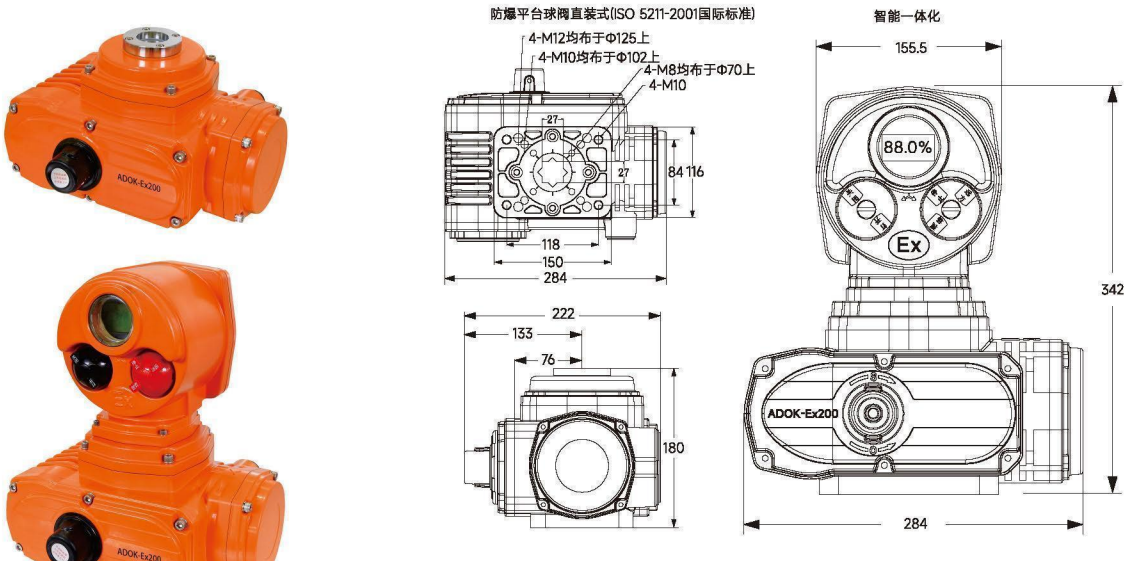
·Ex40/60

防爆外形与性能参数
Explosion proof appearance and performance parameters



·Ex100/200

防爆外形与性能参数
Explosion proof appearance and performance parameters



ZADOK-Ex40/60系列外形尺寸及性能参数 Overall dimensions and performance parameters of ZADOK-Ex40/60 series

参数 Parameter	型号 Model	ADOK-Ex40									ADOK-Ex60									
	电源 Power Supply	DC12V	DC24V	DC36V	DC110V	DC220V	AC24V	AC110V	AC220V	AC380V	DC12V	DC24V	DC36V	DC110V	DC220V	AC24V	AC110V	AC220V	AC380V	
性能 Performance																				
电机功率 Motor power		90W	90W	90W	90W	90W	90W	90W	90W	90W	120W	120W	120W	120W	120W	120W	120W	120W	120W	
额定电流 Rated current		15.20A	8.60A	4.50A	2.80A	1.20A	8.10A	2.00A	0.90A	0.40A	16.00A	9.00A	4.80A	3.00A	1.30A	8.50A	2.20A	1.00A	0.50A	
标准时间/力矩 Standard time/torque		15S/200Nm					30S/400Nm				15S/300Nm					45S/600Nm				
可选时间/力矩 Optional time/torque		7.5S/150Nm					7.5S/150Nm 15S/200Nm				7.5S/150Nm 15S/300Nm 30S/400Nm									
回转角度范围 Swing angle range		标准0-90° 可定制0-360°任意角度 Standard 0-90° can be customized from 0-360° to any angle																		
可选控制电路 Optional control circuit		A型/B型/C型/D型/E型/F型/H型/ZT型/ZK型 Type A/B/C/D/E/F/H/ZT/ZK																		
整机重量 Operating Weight		12.0kg									12.5kg									
绝缘电阻 insulation resistance		AC24V:100MΩ/250VDC AC110V/AC220V/AC380V:100MΩ/500VDC																		
耐压等级 Withstand voltage level		AC24V:500VAC 1分钟, AC110V/AC220V:1500VAC 1分钟, AC380V:1800VAC 1分钟 AC24V: 500VAC for 1 minute, AC110V/AC220V: 1500VAC for 1 minute, AC380V: 1800VAC for 1 minute																		
防护等级 Degree of protection		IP 67/IP 68																		
防爆等级 Explosion proof grade		ExdII CT6																		
安装方法 Installation method		360°任意角度安装 360° installation at any angle																		
电器接口尺寸 Electrical interface size		外丝1-G1/2, 内丝1-G3/4, 客户使用时建议用Φ9-Φ12电缆线 Outer wire 1-G1/2, inner wire 1-G3/4, recommended by customers Φ9-Φ12 cable																		
环境温度 ambient temperature		-20℃~+60℃																		
选装功能 Optional features		①潜水型②离合器手轮③加热除湿器④过力矩保护⑤断电复位⑥高低温-40℃~+80℃ ① Submersible ② clutch handwheel ③ heating dehumidifier ④ over torque protection ⑤ power off reset ⑥ high and low temperature - 40℃~+80℃																		

ADOK-Ex100/200系列外形尺寸及性能参数 Overall dimensions and performance parameters of ADOK-Ex100/200 series

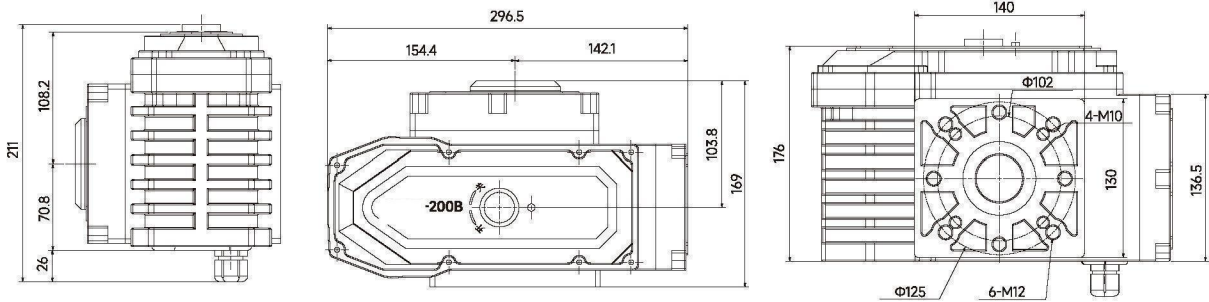
参数 Parameter	型号 Model	ADOK-Ex100									ADOK-Ex200									
	电源 Power Supply	DC12V	DC24V	DC36V	DC110V	DC220V	AC24V	AC110V	AC220V	AC380V	DC12V	DC24V	DC36V	DC110V	DC220V	AC24V	AC110V	AC220V	AC380V	
性能 Performance																				
电机功率 Motor power		120W	120W	120W	120W	120W	120W	120W	120W	120W	180W	180W	180W	180W	180W	180W	180W	180W	180W	
额定电流 Rated current		19.20A	11.60A	7.60A	3.40A	1.40A	9.00A	2.40A	1.10A	0.45A	20.0A	12.0A	8.00A	3.60A	1.50A	9.50A	2.60A	1.40A	0.6A	
标准时间/力矩 Standard time/torque		25S/400Nm					50S/1000Nm				30S/500Nm					75S/2000Nm				
可选时间/力矩 Optional time/torque		6S/150Nm 12S/300Nm 17S/300Nm 25S/400Nm 30S/500Nm					12S/200Nm 25S/400Nm 35S/600Nm				6S/150Nm 12S/300Nm 17S/300Nm 25S/400Nm 30S/500Nm					12S/200Nm 25S/400Nm 35S/600Nm 50S/800Nm				
回转角度范围 Swing angle range		标准0-90° 可定制0-360°任意角度 Standard 0-90 ° can be customized from 0-360 ° to any angle																		
可选控制电路 Optional control circuit		A型/B型/C型/D型/E型/F型/H型/ZT型/ZK型 Type A/B/C/D/E/F/H/ZT/ZK																		
整机重量 Operating Weight		13.0kg									13.5kg									
绝缘电阻 insulation resistance		AC24V:100MΩ /250VDC AC110V/AC220V/AC380V:100MΩ /500VDC																		
耐压等级 Withstand voltage level		AC24V:500VAC 1分钟, AC110V/AC220V:1500VAC 1分钟, AC380V:1800VAC 1分钟 AC24V: 500VAC for 1 minute, AC110V/AC220V: 1500VAC for 1 minute, AC380V: 1800VAC for 1 minute																		
防护等级 Degree of protection		IP 67/IP 68																		
防爆等级 Explosion proof grade		ExdII CT6																		
安装方法 Installation method		360°任意角度安装 360 ° installation at any angle																		
电器接口尺寸 Electrical interface size		外丝1-G1/2, 内丝1-G3/4, 客户使用时建议用Φ9-Φ12电缆线 Outer wire 1-G1/2, inner wire 1-G3/4, recommended by customers Φ9-Φ12 cable																		
环境温度 ambient temperature		-20℃~+60℃																		
选装功能 Optional features		①潜水型②离合器手轮③加热除湿器④过力矩保护⑤断电复位⑥高低温-40℃~+80℃ ① Submersible ② clutch handwheel ③ heating dehumidifier ④ over torque protection ⑤ power off reset ⑥ high and low temperature - 40 °C~+80 °C																		

100B/200B

精小型电动执行器
Fine small electric actuator



风光互补
Complementary scenery



ADOK-100/200B系列外型尺寸及性能参数 Overall dimensions and performance parameters of ADOK-100B/200B series

性能 Performance	产品型号 Product model	ADOK-100B					ADOK-200B				
	电源 Power Supply	DC24V	AC24V	AC110V	AC220V	AC380V	DC24V	AC24V	AC110V	AC220V	AC380V
	电机功率 Motor power	100W					120W				
	额定电流 Rated current	10A	9A	2.2A	1A	0.48A	12A	9.5A	2.5A	1.2A	0.58A
	输出力矩 Output torque	800Nm	1000Nm				2000Nm				
	标准运行时间 Standard operating time	30S	50S				30S	60S			
	电路控制 Circuit control	ADOKA、ADOKB、ADOKC、ADOKD、ADOKE									
	转动角度 Rotation angle	0-90°									
	重量 weight	12.5Kg					13Kg				
	耐压等级 Withstand voltage level	1500VAC/1分钟 1500VAC/1min									
	绝缘电阻 insulation resistance	100MΩ/500VDC									
	防护等级 Ambient temperature	IP65/IP67									
	环境温度 Ambient temperature	-25℃-60℃(其它温度可定做) -25℃ - 60℃ (other temperatures can be customized)									
	安装角度 Installation angle	任意角度 Any angle									
	轴体材质 Shaft material	铝合金压铸件 Aluminum alloy die castings									
	选装功能 Optional features	过力矩保护、加热除湿器 Over torque protection, heating dehumidifier									



立杆
Upright pole

2 米立杆，外观乳白色（可加高）
2m pole, milky white appearance (can be raised)

手机远程控制
Mobile phone remote control

- 1.手机无线控制系统可实时无线控制阀门关闭或开启。
- 2.可使用4G 远程传输到手机电脑或者终端实时控制并监控阀门的实际位。
- 1. The wireless control system of the mobile phone can control the closing or opening of the valve in real time.
- 2. 4G can be used for remote transmission to the mobile computer or terminal to control and monitor the actual position of the valve in real time.

多单晶太阳能板
Multi crystal solar panel

- 1.额定功率：60W，每套系统2 块太阳能组件；
- 2.A 级高效单晶N 型组件；
- 3.组件转化率>21%；
- 4.迎风压强>2400Pa；
- 5.绝缘强度DC3500V，1min；
- 6.边框接地电阻<1Ω；
- 1. Rated power: 60W, 2 solar modules for each system;
- 2. Class A efficient single-crystal N-type component;
- 3. Component conversion rate ≥ 21%;
- 4. Upwind pressure ≥ 2400Pa;
- 5. Insulation strength DC3500V, 1min;
- 6. Frame grounding resistance ≤ 1 Ω;

风力发电机
Wind power generator

- 1.额定功率：NE-200W
- 2.启动风速2.0m/s,额定电压24V
- 3.发电机类型：三相交流永磁发电机，
- 4.风轮直径1.3m,叶片3 片，
- 5.自动调整迎风方向，工作温度-40℃~80℃
- 1. Rated power: NE-200W
- 2. Starting wind speed 2.0m/s, rated voltage 24V
- 3. Generator type: three-phase AC permanent magnet generator,
- 4. The wind turbine has a diameter of 1.3m and 3 blades,
- 5. Automatically adjust the windward direction, and the working temperature is -40℃~80℃

太阳能控制器
Solar controller

- 1.系统电压：18/24V 系统电压自动识别；
- 2.最大输出直流电流为：20A 以上；
- 1. System voltage: 18/24V system voltage automatic identification;
- 2. Maximum output DC current: above 20A;

三元酸铁锂电池
Lithium iron tribasic acid battery

- 1.太阳能专用型三元酸铁锂电池；
- 2.额定容量：100AH.每套系统4 串蓄电池；
- 4.使用寿命3-5 年；
- 5.采用胶体电解液，液体呈凝胶状，电池内无流动液体，无酸液分层现象，电池可卧式放置使用；
- 6.具有循环性能和过放电恢复能力；
- 1. Lithium iron tribasic acid battery for solar energy;
- 2. Rated capacity: 100AH. 4 series batteries for each system;
- 4. Service life 3-5 years;
- 5. Colloid electrolyte is used. The liquid is in the form of gel. There is no flowing liquid and acid stratification in the battery. The battery can be placed horizontally for use;
- 6. Have cycle performance and over discharge recovery capability;

防水箱
Watertight caisson

多角度防尘，结构牢固有效阻挡细微灰尘进入，采用空气流动学原理，通风单人栅栏设计，通风散热效果更好，双坡型设计有效防风防雨，而且能排除因户外气温变化产生的冷凝水；
尺寸：
300*400*200mm；
材质：喷塑碳钢1.0；
Multi angle dust-proof, solid structure to effectively block the entry of fine dust, the use of air mobility principle, ventilation single fence design, ventilation and heat dissipation effect is better, double slope design is effective in wind and rain protection, and can eliminate condensation water due to outdoor temperature changes;
Size:
300*400*200mm;
Material: plastic sprayed carbon steel 1.0;

支架
Bracket

太阳能板通用抱杆安装支架.260度高温喷塑，外观乳白色
Solar panel universal holding pole mounting bracket. 260℃ high temperature spray, milky white appearance

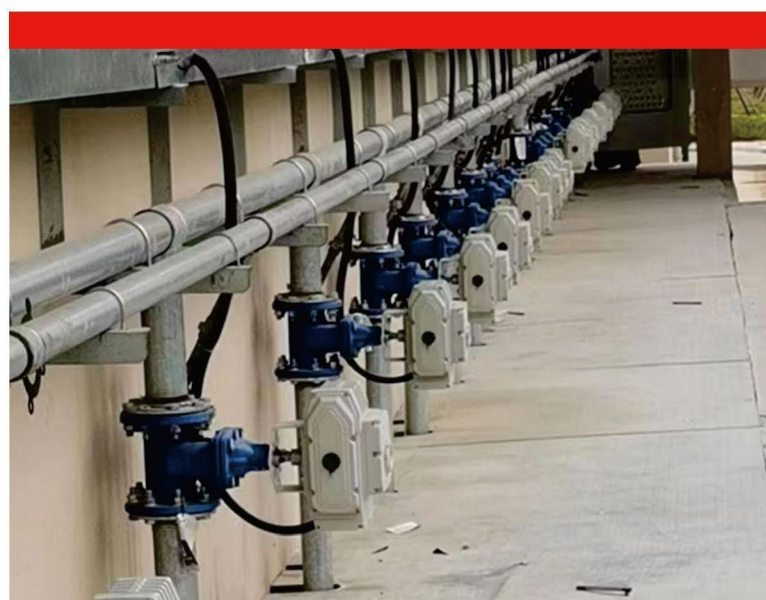


部分现场案例

Some Field Cases

聚焦客户需求，提供解决方案

Focus on customer needs
Provide solutions



销售范围-覆盖全国

Sales scope - covering the whole country

021-67296155

RÜWO

售后服务

After-sale Service

