

Focusing on the Motorized Ball Valve Industry

for 20 Years

Innovating with Proven Performance
Providing Independent Solutions

Reliable

Manufacturer of Motorized Ball Valves



Win - Win the trust of customers

with quality and performance.

V-very reliable, efficient and dedicated.

All- Keeping improving in ALL aspects not only in product innovation but also in customer satisfaction.

Main products

- Selection Guide
- EVO 22 Motorized Ball Valve with manual
- Mini Motorized Ball Valve
- AC Motorized Ball Valve
- Capacitor-Return Motorized Ball Valve
- DC Motorized Ball Valve
- 4N.m Control Ball Valve
- 10N.m AC Control Ball Valve
- 5N.m DC Control Ball Valve
- Capacitor-Return Control Ball Valve
- Fast Running Control Ball Valve
- 6/10N.m AC/DC Control Ball Valve
- Spring Return Valve
- 4,6,10N.m Air Damper Actuator
- 16,25,40N.m Air Damper Actuator

C ∈ RoHS



Selection Guide

The motorized ball valve is an electromechanical integrated device that relies on the rotation of the motor to pull the ball valve body to rotate. It is divided into two parts: the actuator and the valve body.

Motorized ball valves are generally installed in pipelines with fluids under different working conditions. When we select motorized ball valves, we must first make sure the relevant parameters of the valve body according to the pipeline working conditions, and then choose according to the relevant parameters of the pipeline control system and the valve body. And determine the relevant parameters of the actuator.

(1) Several elements of valve body selection

1. Pipeline pressure

All ball valve bodies of our company meet the requirements of systems with pipeline pressure not less than PN20, 200Bar, and 290Psi.

2. Valve body sizes

Commonly used threaded ball valves have calibers ranging from 1/2" to 2".

The diameter of flanged ball valve ranges from 1/2" ~4".

Valve body structure type

Our standard used ball valve types are: 2-way and 3-way.

4. Selection of valve body material

Generally, the selection of valve body material should consider several factors such as pipeline medium, medium temperature, operating conditions, and regulatory requirements.

- For drinking water, food equipment, medical equipment, please choose stainless steel valve body, our regular rust steel ball valve is 304, according to customer needs, or special corrosive liquids, please consult our sales. We can customize SS316, SS316L or other.
- For central air conditioning, heating, water treatment, agricultural irrigation, animal husbandry equipment, industrial equipment (oil cooling system, water cooling system, and industrial water system), fuel cell water cooling system, Hpb59-1 brass can be used.
 - For seawater or corrosive liquids, you can also choose UPVC ball valves.

5. Temperature tolerance range

Normal temperature range is 2°C-90°C. We have started to upgrade the ball valve to the temperature range of -10°C~110°C.

If you have special temperature request like -10°C-120°C, please tell us before ordering.

6. The flow characteristics of the valve body

The flow characteristics of ball valves are divided into two types, the first types is the quick-open switch-type flow characteristics. The second types is equal percentage or linear regulation flow characteristics.

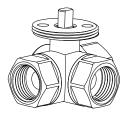
- If the valve body is only used to cut off or connect the fluid, or change the direction of medium flow, you can use the on-off type flow control valve body.
 - If you need to adjust the flow, you can use an adjustable flow control valve body.
- If you need a ball valve with linear flow characteristics, equal percentage flow characteristics, or other special liquid or gas flow requirements, please inform us of your needs, and we can choose and customize for you.

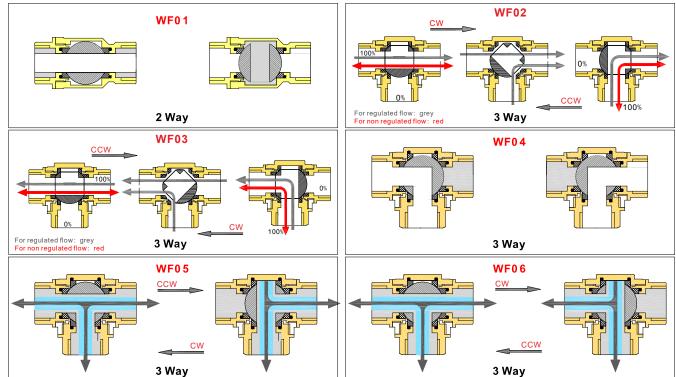
7. Flow direction selection

Please choose the flow direction you need. Normally, WF01, WF02 and WF03 is in common use.









Remarks:

- (1) For on-off pipelines or switching pipelines, the inlet and outlet can be determined based on the actual situation on site.
- (2) For pipelines that adjust the flow rate or mix cold and hot water, installation can only be based on the inlet and outlet determined by the valve body.

(2) The selection elements of the actuator

Power supply voltage and control method are indispensable conditions when selecting an actuator.

1. Power supply voltage

- 230VAC, 110VAC, 24VAC,
- 24VAC/DC,
- 24VDC, 12VDC, 3VDC, 9~28VAC/DC

2. Control method

- On-Off control: The actuator will only stop in the fully open position and fully closed position.
- Floating-point switch type: Under the action of the external control circuit, the actuator will stop in the fully open position and fully closed position, and other positions in the middle.
 - Proportional type:

Input signal: 0-10VDC, 4-20mA; Output signal: 0-10VDC

• Remote communication control:

We can provide MODBUS, mBUS protocol electric ball valve customization service.

3. Running time

Different types and different series of actuators have different running times. If you don't mind or don't know the meaning of this parameter, please ignore it.

If you have requirements for the running time, please tell our sales staff about the running time requirements. Our sales staff will provide you with professional help.



EVO 22 Motorized Ball Valve

- Manual function by screwdriver
- Display of switch angle position.
- IP67
- Environment temperature:
- -10~80℃

- Small Size and Big Torque
- Installation is very convenient and reliable
- Can be installed both horizontally and vertically.
- Low energy consumption, limit protection, current limiting protection.
- Constant-current control

24VAC/DC Actuator

Model	Control Type	Power Supply	Parameter	Material	Wiring Diagram
WRA-2224S35	Proportion		Power in operation: 5W Power in rest position: 2W 4N.m Running time: 35s	Actuator shell: ABS	24VDC/AC Control M Corcuit M Control M Corcuit
WRA-2224S8			Power in operation: 4W Power in rest position: 2W 4N.m Running time: 6-12s	Actuator	24VDC/AC Control M Circuit
WRA-22W02A			Power in operation: 2W Power in rest position: 1W 4N.m Running time: 6-12s	revolving shaft: POM	CLOSE Control Circuit Actuator Inside

24VAC/DC Actuator Option : Other function

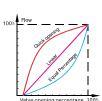
	Function	Illustration
-P3, -P8	Aviation socket: M12*1 Threaded connection: 8 Pin,-P8; 3Pin, -P3.	

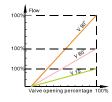






^{* *}W8BV...series has three types of valve bodies with different flow characteristics: linear flow characteristic, equal percentage flow characteristic and quick opening flow characteristic.











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AC Actuator

Model	Control Type	Power Supply	Parameter	Material	Wiring Diagram
WRA-2220APRO	0.5/0#	90-250VAC	Power: 2W 4N.m Runningtime: 6-12s Current limiting protection Limit protection	Actuator shell: ABS	N — 1 CLOSE Control Circuit Ci
WRA-2220A	On/Off	230VAC	Power: 5W 4N.m	Actuator base: PC	CLOSE Control (MS)
WRA-2202A		24VAC	Running time: 43S/50Hz 36S/60Hz	Actuator	N—————————————————————————————————————
WRA-2220	3-point	230VAC	Constant current running AC synchronous motor	revolving shaft:	CLOSE Control Circuit
WRA-2202	3-point	24VAC	Limit protection	POM	N—————————————————————————————————————

DC Actuator

Model	Control Type	Power Supply	Parameter	Material	Wiring Diagram
WRA-2203A		3VDC	3.0N.m, 2W, Running time: 6-10s	Actuator shell: ABS	24/12/03 CLOSE Control (M)
WRA-2212A	On/Off or 3-point	12VDC	3.0N.m, 2W, Running time: 6-10s	Actuator base: PC	OR 24/12/03 CLOSE Contro (M)
WRA-2224A	•	24VDC	3.0N.m, 2W, Running time: 6-10s	Actuator revolving shaft: POM	VDC OPEN Corruit MM Circuit MM Actuator Inside

• AC and DC Actuator Option: Other function

	-P3, -P5, -P8	-DK	
Function	Aviation socket: M12*1 Threaded connection: 8 Pin, 5 Pin, 3Pin	Dry Contacts: Full Open feedback and Full Close feedback.	
llustration		WW15 CLOSE COM CLOSE FB1 OPEN Adutator inside FB2 OPEN Activator inside FB2 OPEN Activator inside FB1 OPEN Activator inside FB1 OPEN Activator inside FB1 OPEN Activator inside FB1 OPEN FB2 OPEN Activator inside	





- if you are not sure which model suits your system/equipment, please kindly contact our sales for professional suggestions.
- **W8BV...series has three types of valve bodies with different flow characteristics: linear flow characteristic, equal percentage flow characteristic and quick opening flow characteristic.



Capacitor-Return

Model	Control Type	Power Supply	Parameter	Material	Wiring Diagram
WRA-2220C	On/Off	90-250VAC	Power: 2W 2.5N.m Running time: 6-12s	Actuator shell: ABS Actuator base: PC	N(-) Control M
WRA-2224C	On/Off	9-28VAC/DC	Constant-current control Limit protection IP67	Actuator revolving shaft: POM	Actuator Inside

• AC and DC Actuator Option: Other function

	-P3
Function	Aviation socket: M12*1 Threaded connection: 3Pin
Illustration	









		7		
Valve Type	W8BV Series	W8BVM Series	WSBV Series	
Material	Brass(Hpb59-1)	Brass(Hpb59-1)	304/316/316L	
Type	2 way / 3 way	2 way / 3 way	2 way / 3 way	
Size	1/2", 3/4", 1"	1/2", 3/4", 1"	1/2", 3/4", 1"	
Thread Type	Female BSP/NPT	Male BSP	BSP/NPT	
Sealing	Stem: FKM+NBR with 3 O-ring			
Material	Ball: PTFE+FKM with double O-ring			
Media	Cold/hot water, 50%	% glycol, air, oil, etc	Cold water/hot water, 50% glycol, air, oil, weak acid and alkali, solvent, etc	
Temperature				
Admissible Pressure	2.0MPa			
Flow Characteristics	Equal Percentage/Quick opening	Quick opening flo	w characteristics	

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Mini Motorized Ball Valves

This series of mini motorized ball valves consists of WRA-53...series actuators and W6BV...2 way forged brass ball valves. The actuator adopts to unique control mode, using AC motor as the power source and matching metal gear retarding mechanism, large torque within 19Sec rotating time. When the valve is opening or closed, the motor will automatically turn off with low consumption. According to the different control way, the actuator could be divided into single wire and double wires controlling type.

Valve bodies have excellent capacity of water stoppage, large water flow rate, no dirt block inside, and unique seal structure to make sure less leakage and avoid internal leakage of valve. It is easy to install our valves together with actuators via a threaded copper connector. This series of mini motorized ball valves can be widely used for solar system, HVAC system, heating equipment, beer brewing industry, water treatment system and agricultural irrigation etc.



Actuator

Model	Control Type	Power Supply	Parameter	Material	Wiring Diagram
WRA-5320	3-point	230VAC±15%	/ VV	Actuator shell: PC+GF10	CLOSE Control (MS)
WRA-5302	•	24VAC±15%	19S/50Hz, 16S/60Hz Ambient temperature:	Actuator base: PC+GF10 Actuator revolving Actuator revolving	N—————————————————————————————————————
WRA-5320A		230VAC±15%	-10°C ~ 80°C Ambient humidity: 0~90%RH		Control
WRA-5302A	On/Off	24VAC±15%	Protect rank: Ip54 Output torque: 3.5N.m	shaft: POM & PC+GF10	N——I——————————————————————————————————



^{🏓 *} If you are not sure which model suits your system/equipment, please kindly contact our sales for professional suggestions.

^{**} Valve body model description, W6BV2... Is followed by 2 digits, respectively 15, 20, 25, 32, 40, representing 1 / 2 ", 3 / 4", 1 ", 1-1 / 4", 1-1 / 2 "equal caliber. The penultimate number 2 or 3 represents 2-way and 3-way. For other series of ball valve body models, the last three numbers have the same meaning.



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AC Motorized Ball Valve

Actuator

Model	Control Type	Power Supply	Parameter	Material	Wiring Diagram
WRA-6320		230VAC±15%	Power consumption: 7W	Actuator shell:	CLOSE Control (MS)
WRA-6310	3-point	110VAC±15%	Running time:	PC+GF10	OPEN Circuit
WRA-6302		24VAC±15%	16S/50Hz, 12S/60Hz Ambient temperature:	Actuator base:	Actuator Inside WW02
WRA-6320A		230VAC±15%	-10°C~ 80°C Ambient humidity:	PC+GF10	CLOSE Control (MS)
WRA-6310A	On/Off	110VAC±15%	0~90%RH	Actuator revolving shaft:	a OPEN Circuit UNS
WRA-6302A		24VAC±15%	Protect rank: IP54/IP55 Output torque: 3.5N.m	POM & PC+GF10	Actuator Inside WW01





Actuator Option : Other function

		-L	-P5,-P8	-DK	-K2
F	unction	LED Indicators: LED Light indicators for power, full open and full close.	Aviation socket: M12*1 Threaded connection 8 Pin, -P8; 5 Pin, -P5.	Dry Contacts: Full open feedback and Full Close feedback.	Wet Contacts: Full Open feedback and Full Close feedback.
111	ustration	OnFeedbask Power OfFeedbask LED LED LEP		COM CLOSE FB1 OPEN WW16	N CLOSE FB2—OPEN Close FB1—CLOSE FB2—OPEN Close Control OPEN Close Control OPEN CLOSE FB1—CLOSE FB2—OPEN N FB1—CLOSE FB2—OPEN N FB1—CLOSE FB2—OPEN N Actuator inside

Valve Type	W8BV Series	W8BVM Series	WSBV Series	WUPBV Series
Material	Brass(Hpb59-1)	Brass(Hpb59-1)	304/316/316L	UPVC
Туре	2 way / 3 way	2 way / 3 way	2 way / 3 way	2 way
Size	1/2", 3/4", 1"	1/2", 3/4", 1"	1/2", 3/4", 1"	1/2", 3/4", 1"
Thread Type	Female BSP/NPT	Male BSP	BSP/NPT	Bonding
Sealing		Stem: FKM+NBR with 3 O-ring		EPDM, FKM with O-ring
Material		Ball: PTFE+FKM with double O-rin	g	PTFE
Media	Cold/hot water, 50% glycol, air, oil, etc Cold water/hot water, 50% glycol, air, oil, weak acid and alkali, solvent, etc			sea water, water, acid, Solvent
Temperature	-10~100°C			-10~60°C
Admissible Pressure		1.6MPa		
Flow Characteristics	Equal Percentage/Quick opening	ics		

[🦲] If you are not sure which model suits your system/equipment, please kindly contact our sales for professional suggestions.



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AC Motorized Ball Valve

Actuator

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Model	Control Type	Power Supply	Parameter	Material	Wiring Diagram
WRA-6220	3-point	230VAC±15%	Running time: 10S/50Hz: 8S/60Hz		CLOSE
WRA-6202		24VAC±15%	Output torque: 2.5N.m	Actuator shell:	OPEN Control Circuit
WRA-6120	3-point	230VAC±15%	Running time: 8S/50Hz:7S/60Hz	PC+GF10	N—————————————————————————————————————
WRA-6102	3-ропп	24VAC±15%	Output torque: 2N.m	Actuator base: PC+GF10	WW02
WRA-6220A	On/Off	230VAC±15%	Running time: 10S/50Hz: 8S/60Hz		,CLOSE
WRA-6202A	On/On	24VAC±15%	Output torque: 2.5N.m	Actuator revolving shaft:	Control Circuit
WRA-6120A	On/Off	230VAC±15%	Running time: 8S/50Hz:7S/60Hz	POM & PC+GF10	N——I — Actuator Inside
WRA-6102A	Oli/Oli	24VAC±15%	Output torque: 2N.m		WW01





Actuator Option : Other function

	-L	-P5,-P8	-DK	-K2
Function	LED Indicators: LED Light indicators for power, full open and full close.	Aviation socket: M12*1 Threaded connection 8 Pin, -P8; 5 Pin, -P5.	Dry Contacts: Full open feedback and Full Close feedback.	Wet Contacts: Full Open feedback and Full Close feedback.
Illustration	OnFredaxis Power OfFredaxis LED LED LEP		COM CLOSE FB1 OPEN FB2 WW16	N FB1—, CLOSE FB2—, OPEN Control WW08 Actuator Inside CLOSE FB1—, CLOSE FB1—, CLOSE FB1—, CLOSE Control WW07 Actuator Inside



[🦲] If you are not sure which model suits your system/equipment, please kindly contact our sales for professional suggestions.





Model	Control Type	Power Supply	Parameter	Material	Wiring Diagram
WRA-6320C	Capacitor	90-240VAC	Power consumption: 3W Running time: 5~30s Ambient temperature:	Actuator shell: PC+GF10 Actuator base: PC+GF10	N(-) Control M Circuit M Circuit
WRA-6302C	Return	9-28VAC/DC	-10°C~80°C Ambient humidity: 0~90%RH Protect rank: IP54/55 Output torque: 2.0N.m	Actuator revolving shaft: POM & PC+GF10	Actuator Inside

Actuator Option : Other function

	-L	-P3, -P5
Function	LED Indicators: LED Light indicators for power, full open.	Aviation socket: M12*1 Threaded connection: 3 Pin, -P3; 5 Pin, -P5.
Illustration	OrFestask Power OfFestask LED LED LED	



Valve Type	W8BV Series	W8BVM Series	WSBV Series	WUPBV Series	
Material	Brass(Hpb59-1)	Brass(Hpb59-1)	304/316/316L	UPVC	
Type	2 way / 3 way	2 way / 3 way	2 way / 3 way	2 way	
Size	1/2", 3/4", 1"	1/2", 3/4", 1"	1/2", 3/4", 1"	1/2", 3/4", 1"	
Thread Type	Female BSP/NPT	Male BSP	BSP/NPT	Bonding	
Sealing		Stem: FKM+NBR with 3 O-ring		EPDM, FKM with O-ring	
Material	[Ball: PTFE+FKM with double O-ring			
Media	Cold/hot water, 50% glycol, air, oil, etc Cold water, 50% glycol, air, oil, weak acid and alkali, solvent, etc		sea water, water, acid, Solvent		
Temperature	-10~100°C			-10~60°C	
Admissible Pressure	2.0MPa 1.6MPa			1.6MPa	
Flow Characteristics	Equal Percentage/Quick opening Quick opening flow characteristics				

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DC Motorized Ball Valves

Actuator

Model	Control Type	Power Supply	Parameter	Material	Wiring Diagram
WRA-4203		3VDC	Power consumption: 3W		24/12/03 CLOSE Control (M)
WRA-4212	3-point	12VDC			VDC OPEN Control M
WRA-4224		24VDC	Running time: 5-12s	Actuator shell: PC+GF10	Actuator Inside WW04
WRA-4203A		3VDC	Ambient temperature:	Actuator base:	24/12/03 CLOSE Control (M)
WRA-4212A	On/Off	12VDC	-10°C~ 80°C	PC+GF10	OPEN Circuit
WRA-4224A		24VDC	Ambient humidity:	Actuator revolving	WW03
			0~90%RH	shaft:	9-24VDC CLOSE
WRA-4224D	On/Off	9-24VDC	Protect rank: IP54/IP55	POM & PC+GF10	OPEN Circuit (M)
			Output torque: 2.0N.m		WW20 Actuator Inside



Actuator Option : Other function

	-L	-P5,-P8	-DK	-K2
Function	LED Indicators: LED Light indicators for power, full open and full close.	Aviation socket: M12*1 Threaded connection 8 Pin, -P8; 5 Pin, -P5.	Dry Contacts: Full Open feedback and Full Close feedback.	Wet Contacts: Full Open feedback and Full Close feedback.
Illustration	OrFeetask Power OfFeetask LED LED LED		COM CLOSE CONTROL OPEN CIrcuit M Actuator Inside COM CLOSE CONTROL OPEN CIrcuit M Actuator Inside COM CLOSE FB1 CLOSE FB1 CLOSE FB2 OPEN WW14 CLOSE FB2 OPEN WW18	FB1 CLOSE Contro Circuit Contro Contr
Illustration			COM Circuit Control Circuit Ci	PB1 CLOSE FB2 OPEN Actuator Inside WW09

Valve Type	W8BV Series	W8BVM Series	WSBV Series	WUPBV Series
Material	Brass(Hpb59-1)	Brass(Hpb59-1)	304/316/316L	UPVC
Туре	2 way / 3 way	2 way / 3 way	2 way / 3 way	2 way
Size	1/2", 3/4", 1"	1/2", 3/4", 1"	1/2", 3/4", 1"	1/2", 3/4", 1"
Thread Type	Female BSP/NPT	Male BSP	BSP/NPT	Bonding
Sealing		Stem: FKM+NBR with 3 O-ring		EPDM, FKM with O-ring
Material		Ball: PTFE+FKM with double O-rin	g	PTFE
Media	Cold/hot water, 50% glycol, air, oil, etc		Cold water/hot water, 50% glycol, air, oil, weak acid and alkali, solvent, etc	sea water, water, acid, Solvent
Temperature	-10~100℃			-10~60°C
Admissible Pressure	2.0MPa			1.6MPa
Flow Characteristics	Equal Percentage/Quick opening	iick opening flow characteristi	ics	

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4N.m Control Ball Valves

Actuator

Model	Control Type	Power Supply	Parameter	Material	Wiring Diagram
WVA4-104	3-piont	90-240VAC	Running time: 50S-90S	Actuator shell: PC	CLOSE Control (M)
WVA4-204	3-piont	24VAC/DC	Ambient temperature: -10°C~ 60°C Ambient humidity:	Actuator base: PC	N—————————————————————————————————————
WVA4-304	0-10VDC	24VAC/DC	0~90%RH Protect rank: IP54	Actuator revolving shaft: Aluminum alloy	24VDC/AC Control (M) Circuit (M)
WVA4-304-12		12VAC/DC	Output torque: 4.0N.m	Gear material: Metal and POM	0(2)-10V or 0(4)-20mA WW06A

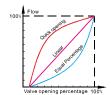
Actuator Option : Other function

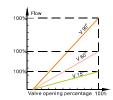
	-K	-R	
Function	Dry Contacts: Full Open feedback or Full Close feedback.	10K resistance feedback: Feedback different resistance values from full closed to full open	
Illustration	COM Actuator Inside	OPEN Control M Actuator Inside COM FB1 FB2 WW13	





- 🥽 * If you are not sure which model suits your system/equipment, please kindly contact our sales for professional suggestions.
- **W8BV...series has three types of valve bodies with different flow characteristics: linear flow characteristic, equal percentage flow characteristic and quick opening flow characteristic.















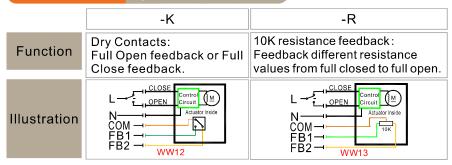


4N.m Control Ball Valves

Actuator

Model	Control Type	Power Supply	Parameter	Material	Wiring Diagram
WVA4-104		90-240VAC	Running time: 50S-90S	Actuator shell: PC	CLOSE Control (M)
WVA4-204	3-piont	24VAC/DC	Ambient temperature: -10°C~60°C Ambient humidity:	Actuator base: PC	N——I——————————————————————————————————
WVA4-304	0-10VDC	24VAC/DC	0~90%RH Protect rank: IP54	Actuator revolving shaft: Aluminum alloy	24VDC/AC Control (M) Circuit (M)
WVA4-304-12		12VAC/DC	Output torque: 4.0N.m	Gear material: Metal and POM	0(2)-10V

Actuator Option : Other function





Valve Type	WCBS Series
Material	Hbp59-1
Туре	6 way
Size	3/4"
Thread Type	BSP
Sealing	Stem: FKM+NBR with O-ring
Material	Ball: PTFE+FKM with double O-ring
Media	Cool/heat water, 50% glycol, air, Oil
Temperature	2~90℃
Admissible Pressure	2.0MPa

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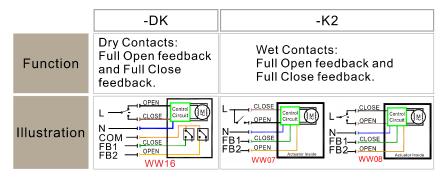
10N.m AC Control Ball Valve

Actuator

Model	Control Type	Power Supply	On/off Time	Torque	Parameter	Material	Wiring Diagram
WRA3-104		230VAC±15%	16s/50Hz, 12s/60Hz	4N.m		Actuator shell:	., CLOSE
WRA3-110	3-point	230VAC±15%	45s/50Hz, 38s/60Hz	10N.m	Running time: 45s/50Hz, 38s/60Hz	PC+ABS	OPEN Control Circuit
WRA3-11010	3-ропп	110VAC±15%	45s/50Hz, 38s/60Hz	10N.m		Actuator base:	N—————————————————————————————————————
WRA3-210		24VAC±15%	45s/50Hz, 38s/60Hz	10N.m	Ambient temperature: -10°C~60°C	PC+ABS	WW02
WRA3-104A		230VAC±15%	16s/50Hz, 12s/60Hz	4N.m	Ambient humidity: 0~95%RH	Actuator revolving shaft:	,,CLOSE
WRA3-110A	On/Off	230VAC±15%	45s/50Hz, 38s/60Hz	10N.m	Protect rank:	POM & SS304	OPEN Control Circuit
WRA3-11010A	On/Off	110VAC±15%	45s/50Hz, 38s/60Hz	10N.m		Gear material:	N—————————————————————————————————————
WRA3-210A		24VAC±15%	45s/50Hz, 38s/60Hz	10N.m		Metal and POM	WW01

Note: The model number with "K" stand for the actuator with microswitch dry contact feedback function.

Actuator Option : Other function







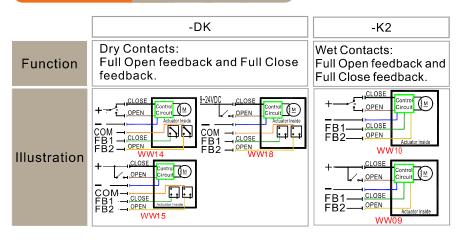
[🥮] If you are not sure which model suits your system/equipment, please kindly contact our sales for professional suggestions.





Model	Control Type	Power Supply	Parameter	Material	Wiring Diagram
WRA3-305D		3VDC	Running time: 10-30S	Actuator shell:	24/12/03 CLOSE Control
WRA3-205D	On/Off	12VDC	Ambient temperature:	PC+ABS Actuator base:	OPEN Circuit
WRA3-105D		24VDC	-10°C~ 60°C Ambient humidity:	PC+ABS	WW03
WRA3-405D	On/Off	9-24VDC	0~95%RH Protect rank: IP65 Output torque: 5.0N.m	Actuator revolving shaft: POM & SS304 Gear material: Metal and POM	9-24VDC COLOSE Control M Circuit M Circuit M Circuit M Actuator Inside

Actuator Option : Other function







[🥽] If you are not sure which model suits your system/equipment, please kindly contact our sales for professional suggestions.





Model	Control Type	Power Supply	On/off Time	Torque	Parameter	Material	Wiring Diagram
WRA3-110C	On/Off	90-240VAC	10-35s	5N m	Running time: 10-30S Ambient temperature: -10°C~60°C Ambient humidity:	Actuator shell: PC+ABS Actuator base: PC+ABS Actuator revolving	N(-)————————————————————————————————————
WRA3-210C		10-30VAC/DC		JIV.III	0~90%RH Protect rank: IP65 Output torque: 5.0N.m	shaft: POM & SS304 Gear material: Metal and POM	Actuator Inside WW17

Note: The model number with "K" stand for the actuator with microswitch dry contact feedback function.

Actuator Option : Other function

	-DK	-K2
Function	Dry Contacts: Full Open feedback and Full Close.	Wet Contacts: Full Open feedback and Full Close.
Illustration	N(-) OPEN Control M Circuit Arieste COM OPEN CIRCUIT ARIESTE FB1 QUEE FB2 OPEN WW22	N(-) L(+) OPEN Control Circuit Actator Inside WW23





[🥽] If you are not sure which model suits your system/equipment, please kindly contact our sales for professional suggestions.



Model	Control Type	Power Supply	Parameter	Material	Wiring Diagram
WRA3-302S WRA3-306S	0-10V	24VAC/DC	Running time: WRA3-302S: 8S WRA3-306S: 20S Ambient temperature: -10°C~60°C Ambient humidity: 0~90%RH Protect rank: IP65 Output torque: WRA3-302S type: 4.0N.m WRA3-306S type: 8.0N.m	Actuator shell: PC+ABS Actuator base: PC+ABS Actuator revolving shaft: POM & SS304 Gear material: Metal and POM	24VDC/AC O(2)-10V O(2)-10V Actuator Inside

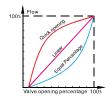
Features

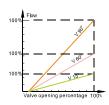
- Morking voltage: 24±10%VAC/DC
- Stepper motor drive
- Adjustable resistance is the internal detector, which can detect the running position during the whole operational process. Closed loop control mode. Control accuracy is 3%.
- Position limitation protection and overload protection.





- * If you are not sure which model suits your system/equipment, please kindly contact our sales for professional suggestions.
- * *W8BV...series has three types of valve bodies with different flow characteristics: linear flow characteristic, equal percentage flow characteristic and quick opening flow characteristic.













WinYall

6/10N.m Control Ball Valves

Actuator

Model	Control Type	Power Supply	Parameter	Material	Wiring Diagram
WVA4-106		00 040 40	Running time:	Actuator shell:	CLOSE
WVA4-110	3-point	90-240VAC	60-1205	PC	OPEN Circuit (M)
WVA4-206		04) /4 0/100	Ambient temperature: -10°C~ 60°C		N——II—————————————————————————————————
WVA4-210		24VAC/DC	Ambient humidity:		WW05
WVA4-306		04) (4.0/D0	0~65%RH Protect rank:	Actuator revolving	12VDC/AC
WVA4-310	0-10V	24VAC/DC	IP54	Aluminum alloy	24VDC/AC Control Corount (Circuit (Circ
WVA4-306-12		40) /4 0 /00	Output torque: 406 Type: 6N.m	Gear material:	0(4)-20mA
WVA4-310-12		12VAC/DC	410 Type: 10N.m	Metal and POM	WW06 Actuator Inside

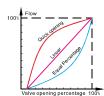
Actuator Option : Other function

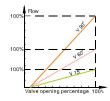
	-K	-R
Function	Dry Contacts: Full Open feedback or Full Close feedback.	10K resistance feedback: Feedback different resistance values from full closed to full open.
Illustration	COM Actuator Inside	COM Actuator Inside COM FB1 FB2 WW13





- 🥽 * If you are not sure which model suits your system/equipment, please kindly contact our sales for professional suggestions.
- **W8BV...series has three types of valve bodies with different flow characteristics: linear flow characteristic, equal percentage flow characteristic and quick opening flow characteristic.









Spring return valves

SW-B.../H series Spring return valves consist of stainless actuators and forged brass valve bodies with additional spring return function. The series of valves are widely used for the control of the ends such like fan coil units, cooling/ heating system, HVAC system, solar system etc. Using the ther-mostat to control the motor of the spring return valve, and make on/off through speed-down machine and reset the spring to carry out the break/on of the hot/cold water in the pipe. It's easy for users to instal actuators onto valve bodies with pop-off connecting type.



Material

Part	Material
Valve Body	Forged Bass
Actuator Shell	Aluminum
Actuator Base	Stainless Steel



Model Code

Valve model	Type	DN	Size	Medium	Temperature	Admissible pressure	Closing pressure	Time(sec)	
SW-B152/H		DN15	1/2"						
SW-B202/H	2 way	DN20	3/4"					Fission valve: Open time 14~18s	
SW-B252/H		DN25	1"	Cool/hot water	5-90°C	1.6MPa	1400KPa	Close time 5~7s	
SW-B153/H		DN15	1/2"	50% glycol	0-30 0	1.0WII a	1400141 4	Form-fitting valve:	
SW-B203/H	3 way	DN20	3/4"						Open time 8~12s Close time 3~5s
SW-B253/H		DN25	1"						

Dimension

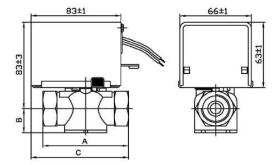


Figure 1, 2-way

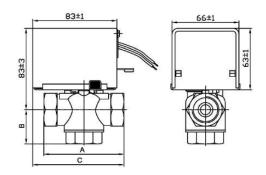
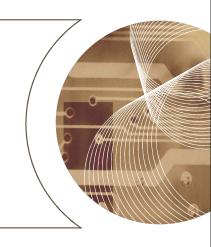


Figure 2, 3-way



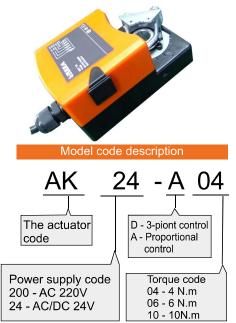
4, 6, 10N.m Air Damper 🤇

The actuator is suitable for circular spindle with $\Box 10$ -18mm, or square spindle size 6 -12mm, length>40mm, and the rotation direction can be reversed by pushing the CCW/CW switch side of the case. To change the input/output signal valve, open the case, and find the JP plug on the PCB. The control signal valve can be changed by connecting the plug. Torque could be 4, 6 or 10 N.m.



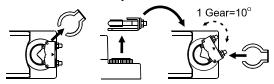
Technical data

Model code	AK200 - D04	4 AK24 - A/D04	
Output torque	4N.m	6N.m 10N.m	
Power supply	AK200 - D	Ak24 - A/D	
	AC230V	AC/DC24V	
Run time	30150s	30120s	
Operating power	12VA,3W	5VA,3W	
Standstill power	12VA,3W	5VA,3W	
Output angle	90° (95° Max)		
ON/OFF control signal	2 wires control		
Modulating control signal 1	DC0(2)10V (100k ohm)		
Modulating control signal 2	Ī	DC0(4)20mA (500 ohm)	
Modulating feedback signal	[DC0(2)10V	
Protection rank		p54	
Ambient conditions	-	10+55°C 090% RH	
Noise max		40dB(A)	
Weight		600900g	

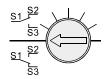


Limits for rotation

Mechanical Limiter Adjustment



Built-in Microswitch Adjustment (For EMO-...S) Loosen the screw of the microswitch.

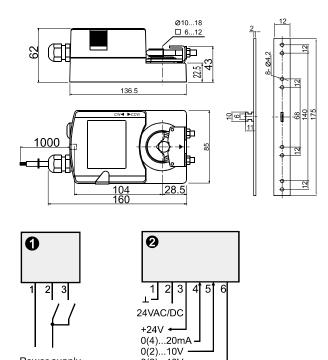


Wiring diagrams & power

AK24 - D	0	AC/DC24V
AK200 - D	0	AC230V
AK24 - A	0	AC/DC24V

Dimensions

Power supply



0(2)...10V



16,25,40N.m Air Damper

The actuator is suitable for circular spindle □10 -18mm, or square spindle size 8 -14mm, length>40mm, and the rotation direction can be reversed by pushing the CCW/CW switch side of the case. To change the input/output signal valve, open the case, and find the JP plug on the PCB. The control signal valve can be changed by connecting the plug, torque could be 16 N.m, 25N.m and 40 N.m.

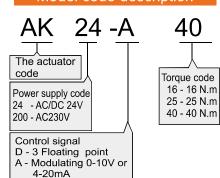


Technical data

	A14.000 B40		1 10 /D 10	
Model code	AK 200 - D16	6 AK 24	- A16 /D16	
Output torque	16 N.m	25 N.m	40N.m	
Power supply	AK200 - D	AK24 - D	AK24 - A	
	AC230V	AC/DC24V	AC/DC24V	
Run time	50150s	60150s	60150s	
Operating power	6VA,3W	6VA,3W	6VA,3W	
Standstill power	12.5VA			
Output angle	90° (95° Max)			
ON/OFF control signal	2 wires control			
Modulating control signal 1	DC0(2)10V (100k ohm)			
Modulating control signal 2	DC0(4)20mA (500 ohm)			
Modulating feedback signal	DC0(2)10V			
Protection rank	IP54			
Ambient conditions	-10+55°C	090% RH		
Noise max	40dB(A)			
Weight	1.52kg			



Model code description



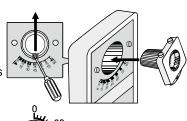
Limits for rotation

Mechanical Limiter Adjustment

- 1. Use a screw-driver to put aside the spring flap.
- 2. Take off the spindle connector.
- Rotate the spindle connector to the suitable position (one tooth is equivalent to 5 degrees)
- 4. Put back the spindle connector.

Use a screw-driver to :

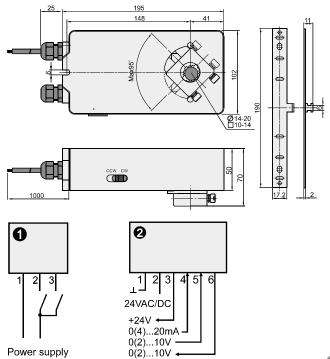
- 1. Rotate to the required position;
- 2. Adjustment completed.





AK24 - D	0	AC/DC24V
AK200 - D	0	AC230V
ΔΚ24 - Δ	0	AC/DC24\/

Dimensions





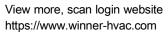
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