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CWX-15N/Q series(recommend for water control)
Mini electric valve-quick open/close

■ Product Features

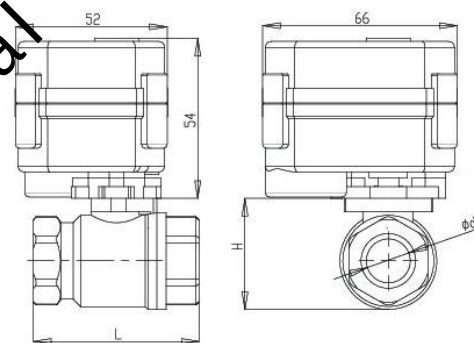
1. POM and metal gear, POM gear used in the high speed to reduce the noise of gear transmission, while the low speed use metal gear, to ensure the reliability of the gear
2. Automatically power off when in full open/close position, long service life, life time can up to 100,000 times
3. Electrical limit and machinery limit design, accurate position, high consistency, to avoid actuator acting all the time
4. Multi-angle assembly, which is convenient for the allocation of space and more convenient to use
5. Float ball structure, no leakage, large flow, two way valve, both inlet and outlet, suitable for the occasion of heavy dirt or long time no action
6. Good substitution for solenoid valve or solenoid valve can not work properly

■ Technical Parameters

Model	Protection class	Working Pressure	Output torque	Size	Open/close time
CWX-15Q	IP65	Max1.0MPa	Max1.5NM	DN8-DN20	<3s
CWX-15N			Max2.0NM	DN8-DN32	<5s

Voltage	DC3-6V DC12V AC/DC9-24V AC220V AC85-265V
Working current	Max100mA (CR04 except Max150mA)
Medium temp	0-90℃
Control mode/wiring	CR01 CR02 CR02+ CR03 CR03A CR03T CR04 CR05

Notes: see P16-16 for control mode wiring diagram



Product dimension figure

(Detail valve size see P16)

■ Application

Auto-control system, industrial mini-auto equipment, solar water heaters, water saving of high-school, drinking water equipment, timing watering, timing humidification, air compressor timing drainage etc

■ Connection Dimension

Brass 2way	Size	L1	H
	DN8F	8	31
	DN10R	8	31
	DN15F	15	38
	DN20R	15	38
	DN20F	20	45
	DN25R	20	47
	DN25F	25	49
	DN32R	25	60

Stainless Steel	DN8F	8	46	31
	DN10R	8	46	31
	DN15	15	55	38
	DN20R	15	63	39
	DN20F	20	71	45
	DN25R	20	75	47
	DN25F	25	72	49

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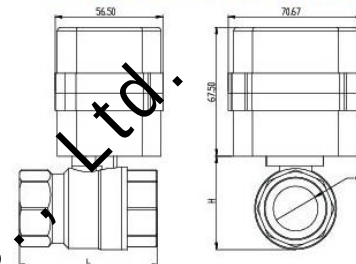
TF-3/TF-IV Series

Remote control RF card with M-BUS is available

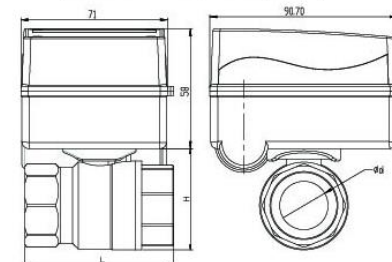
Product Features

1. Intelligent management, realize the prepaid charge management.
2. Data memory: the card can remember the warm valve data and can transfer it to the administrator, enable easy management.
3. Low power supply protection: the valve will be closed automatically when find the low power supply meanwhile data saved.
4. Self-inspection: regular test to protect valve from rust.
5. "Normal mode" and "energy conservation mode", decided by administration section.
6. Unique online charging system, easy to realize station and sub station communication, make card and read data.
7. Low temperature protection function, to prevent the pipe be cracked when valve closed in a lower ambient temperature
8. RF card, without any electrode exposed, well damp-proof and easy to use.
9. User card with double key encryption, one card one password.
10. Remind user to charge the card when remaining time is not enough. Remind user to change battery when low power
11. Data reading function: when user goes to administration center to charge the card the accumulated warm consumption volume and battery status can be read by administration center.
12. Display function: purchase volume, remaining volume and accumulated consumed volume can be displayed on the LCD screen, and user can check the remaining and consumed volume of the meter via the card.
13. The M-BUS remote control card-swiping valve is applicable to "JIS protocol standard", and auxiliary products of heat metering reform.

Product dimension figure



(TF-3 series smart heating valve)



(TF-IV series smart heating valve, can change battery)

Technical Parameters

Model	Environment temp	Usage humidity	Working voltage	Protection class	Static work current	LCD display range	Special function
TF-A3	0℃~50℃	≤95%	3.0V~3.6V	IP65	≤3μA	00000.0~99999.5	easy for old building reform external battery easy for replacement
TF-IV							

Valve size	Working pressure	Working environment	IC card type	Nominal flow rate			
DN15-32	≤1.0MPa	0~50℃	Non-contact	DN15	DN20	DN25	DN32
				1.5m³/h	2.5m³/h	3.5m³/h	6m³/h

Connection Dimensions

Brass 2way	Size	d	L1	H
	DN8F	8	46	31
	DN10R	8	46	31
	DN15F	15	57	38
	DN20R	15	66	38
	DN20F	20	71	45
	DN25R	20	72	47
	DN25F	25	72	49
	DN32R	25	86	60

Stainless Steel	DN8F	8	46	31
	DN10R	8	46	31
	DN15	15	55	38
	DN20R	15	63	39
	DN20F	20	71	45
	DN25R	20	75	47
	DN25F	25	72	49

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Wired temperature control valve

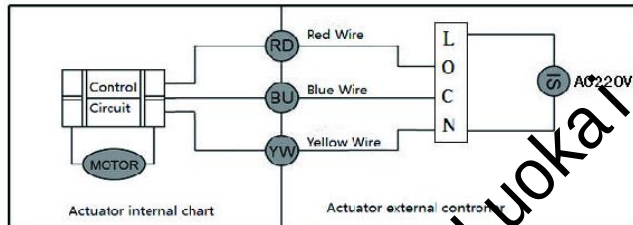
■ Instruction of wired temperature control valve

Wired temperature control valve have temperature controller and valve , the temperature controller detects the ambient temperature , and the valve through temperature controller output AC220V power supply.

■ Instruction of temperature controller

- 1.External AC220V as power source
- 2.The sensor accuracy: $\pm 1^{\circ}\text{C}$
- 3.The controller detects the current temperature in time
- 4.Set the Temperature range: $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$
- 5.The current temperature is lower than the set temperature (set temperature -1) and the valve will open automatically
- 6.The current temperature is higher than the set temperature (set temperature +1), and the valve will close automatically.
- 7.The temperature controller "Power Off" is closed it' s control function, actual execute "closed-Valve" instruction, and then closed the valve.
- 8.Press " Power On" button, open the temperature controller
- 9.Press "M" button, set the temperature controller "Refrigeration & Heating" mode
- 10.Press "+" button, add the set temperature
- 11.Press "-" button, reduce the set temperature

■ Instruction of wiring



- 1.Connected RD with controller terminal "O"
- 2.Connected BU with controller terminal "C"
- 3.Connected YW with controller terminal "N"
- 4.The temperature controller terminal "L" "N" connected with AC220V power

■ Connection Dimensions

Brass 2way	Size		L1	H
	DN8F	8	46	31
	DN10R	8	46	31
	DN15F	15	57	38
	DN20R	15	66	38
	DN20F	20	71	45
	DN25R	20	72	47
	DN25F	25	72	49
	DN32R	25	86	60

Stainless Steel	DN8F	8	46	31
	DN10R	8	46	31
	DN15	15	55	38
	DN20R	15	63	39
	DN20F	20	71	45
	DN25R	20	75	47
	DN25F	25	72	49

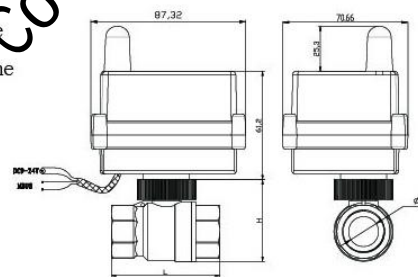


■ ■ Instructions of function

1. Wireless temperature control valve is divided into wireless temperature controller and smart valve, controller including motor drive and wireless communication part
2. The controller senses the environment temperature, and the valve and the thermostat are transmitted by wireless communication module, so that the installation is convenient and the construction is simple
3. The controller open and close the valve according to the environment temperature
4. Smart valve can transmitted through MBus wires to the controller to control the valve open/close, to achieve the purpose of indoor thermostat
5. Real-time display the indoor temperature, open/close state and the default prompt function

■■ Instruction of valves

1. Work voltage:DC12V or DC24V
2. Wireless radio frequency: 430 ~ 434MHz;
3. The current temperature is lower than the set temperature (set temperature :-1), then the inside wireless control module implement command of "Opening" and the valve be open;
4. The current temperature is higher than the set temperature (set temperature :+1), then the inside wireless control module implement command of "Closing" and the valve be closed;
5. The valve keep open position when power-off;
6. The valve will keep open position as soon as the controller is more than 10 min without receiving the remote control of the wireless synchronization signal;
7. The controller update to detect the current temperature per 3 secs;
8. The controller just power -on without remote control, the valve keep opening position;



Product appearance

■ ■ Instruction of controller

1. Power: 2*AAA batteries;
2. Wireless radio frequency: 430 - 434MHz;
3. Wireless transmission distance $\geq 200\text{m}$ (open area);
4. Range of temperature setting : $4^{\circ}\text{C} - 50^{\circ}\text{C}$;
5. Range of the induction temperature range: $0^{\circ}\text{C} - 70^{\circ}\text{C}$;
6. The accuracy of sensor : $\pm 0.5^{\circ}\text{C}$;
7. Setting local time;
8. Setting of the required temperature;
9. The "ON-OFF" on controller is means that to open or close the the temperature judgments of the controller, not equal to open and close the valve;
10. The "OFF" on controller is means that to close temperature control function (equivalent to set the temperature of 99°C), the actually implement to "Opening" command and keep the valve to open position;
11. The controller received the wireless synchronization signal and update the latest control state per 3 minute;
12. The controller and the control module inside valves is one to one, real-time and re-code;
13. The controller can be set the setting temperature, and it display the current ambient temperature and setting temperature, and the data update;

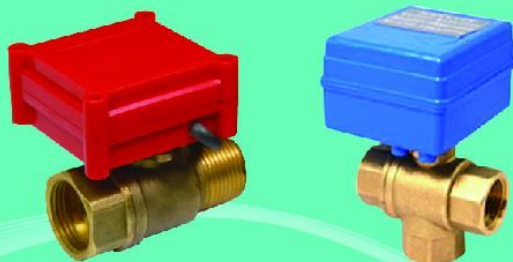
■ ■ Connection Dimension

Brass 2way	Size	L1	H
	DN8F	8	46
	DN10R	8	46
	DN15F	15	57
	DN20R	15	66
	DN20F	20	71
	DN25R	20	72
	DN25F	25	72
	DN32R	25	86

Stainless Steel	DN8F	8	46	31
	DN10R	8	46	31
	DN15	15	55	38
	DN20R	15	63	39
	DN20F	20	71	45
	DN25R	20	75	47
	DN25F	25	72	49



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CWX-20P Series
Miniature electric valve-ultra-small

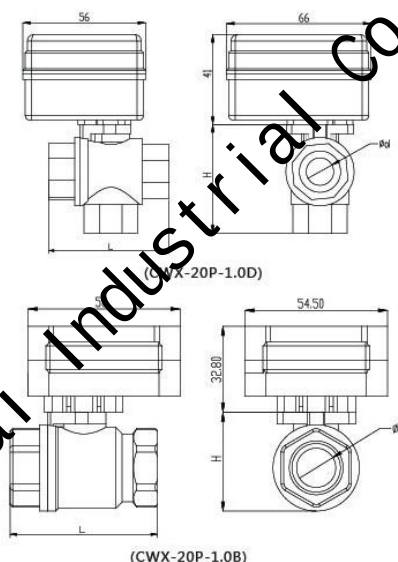
■ Product Features

- 1.Small volume, compact structure, small size, various voltage and assembly diverse ways.
- 2.Reduction mechanism of full powder metallurgy gear, durable, high output torque,suitable for much scaling pipe system.
- 3.Patented technology anti - scale valve body design,can delay the scaling time,is the first choice for external exhaust valve supporting products.
- 4.The exhaust valve shell by ultrasonic welding technology , good sealing performance, protection class IP65.

■ Technical Parameters

Model	CWX-20P-1.0D	CWX-20P-1.0B
Working current	<80mA	
Output torque	2NM	
Working pressure	Max1.0Mpa	
Medium temp	0℃-90℃	
Motor power	<2W	
Protection class	IP65	
Voltage	DC3-6V DC12V	
Open/close time	2-way<7S 3-way<13S	
Control mode	CR01 CR02 CR05	
Valve size	2-way (DN8-32) 3-way (DN15-20)	

Note: See P13-P16 for control mode wiring diagrams



Product dimension figure
(Detail valve size see P16)

■ Connection Dimensions

Brass 2way	Size	d	L1	H
	DN8F	8	46	31
	DN10R	8	46	31
	DN15F	15	57	38
	DN20R	15	66	38
	DN20F	20	71	45
	DN25R	20	72	47
	DN25F	25	72	49
	DN32R	25	86	60

Stainless Steel	DN8F	8	46	31
	DN10R	8	46	31
	DN15	15	55	38
	DN20R	15	63	39
	DN20F	20	71	45
	DN25R	20	75	47
	DN25F	25	72	49
	DN25R	25	72	49
Brass 3way	DN15R	12	63	49
	DN20R	15	66	53



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CWX-25S Series

Mini motorized valve with manual function

■ Product Features

1. POM and metal gear, stable and reliable performance
2. Manual override function can use when power shut off
3. Compact appearance, with position indicator to show open/close of the valve
4. Straightway ball valve with large flow, both inlet and outlet, protection class IP65

■ Technical Parameters

Model	Working current	Pressure	Output torque	Power	Open/close time
CWX-25S	<80mA	Max1.0MPa	2.5Nm	<2W	<8s
Rated Voltage	DC3-6V	DC12V	AC/DC9-24V	AC220V	AC85-265V
Control Mode	CR01 CR02 CR03 CR04 CR05				
Size	DN8-DN32 (2-way), DN8-DN20 (3-way)				
Medium temp	0-90℃				
Protection class	IP65				
Special Function	Manual function, position indicator				

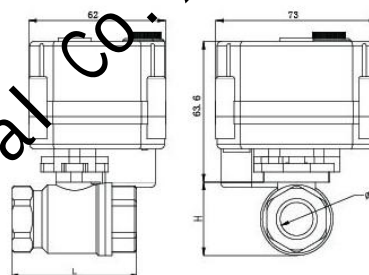
Note: See P13-P16 for control mode wiring diagram

■ Manual operation and notes

1. Be sure the valve is power off supply before manual function.
2. Pulling up the hand wheel, turn the hand wheel driving slightly (pay attention to the position indicator to avoid valve damage)
3. The electric function can only be normal worked after pressing down the hand wheel when no need of manual function.

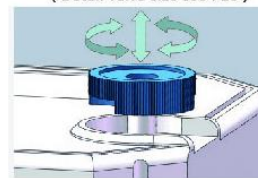
■ Application

1. IC card water meter, heat energy meter
2. HVAC and fire works
3. Water saving of high-school, auto-control system, industrial mini-auto equipment
4. Water saving instrument, drinking water equipment, water heater, solar water heaters, washing machine, industrial humidifier



Product dimension figure

(Detail valve size see P16)



Hand wheel diagram

■ Connection Dimension

Brass 2way	Size	L1	H
	DN8F	8	31
	DN10R	8	31
	DN15F	15	38
	DN20R	15	38
	DN20F	20	45
	DN25R	20	47
	DN25F	25	49
	DN32R	25	60

Stainless Steel	DN8F	8	46	31
	DN10R	8	46	31
	DN15	15	55	38
	DN20R	15	63	39
	DN20F	20	71	45
	DN25R	20	75	47
	DN25F	25	72	49

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CWX-50K Quick install valve
(Fan coil /HVAC engineering dedicated valve)

■ Product Features

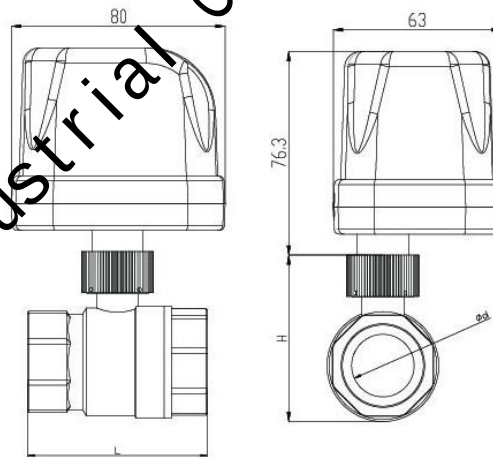
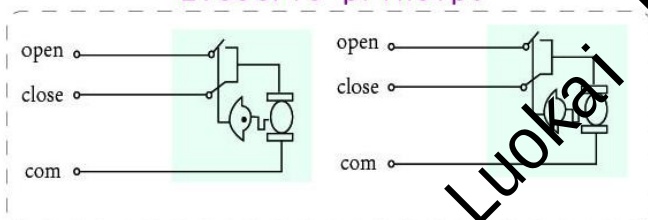
Quick install valve is specially used for on-off control of HVAC water control system, valve is composed by two parts, electric actuator and valve body. Easy to remove troubleshooting and maintenance valve. Actuator with synchronous electric drive, action stable, built-in limit contact point, so that the valve will power off when fully open or fully close, the valve body is brass forged. Valve using a large motor, large torque force, to achieve the valve positive inversion.

Voltage	Control mode	Nominal pressure	Output torque	Power consumption	Open/close time	Close differential pressure	Medium temp	Wire length
AC220V AC24V	CR02	1.6Mpa	3.5NM	6VA	<15S	<0.4MP	2-90℃	15cm

■ Product outline dimensions (Unit:mm)

Connection end	Diameter	Φd	L	H	Weight
Both female thread	DN20	17	60.6	50	0.58
	DN25	23	70	64	0.69
	DN32	27	75	67	0.86

Electric principle



Product dimension figure

■ Connection Dimension

Brass 2way	Size	L1	H
	DN8F	8	46
	DN10R	8	46
	DN15F	15	57
	DN20R	15	66
	DN20F	20	71
	DN25R	20	72
	DN25F	25	72
	DN32R	25	86

Stainless Steel	DN8F	8	46	31
	DN10R	8	46	31
	DN15	15	55	38
	DN20R	15	63	39
	DN20F	20	71	45
	DN25R	20	75	47
	DN25F	25	72	49

- 1.Beautiful appearance, small size, multi angle assembly, easy to install and use
- 2.All metal gear transmission mechanism, large output torque, up to 6NM, long service life, reliable performance
- 3.Electrical limit, accurate position, high consistency
- 4.Float ball structure, no leakage, large flow for 2-way valve.
- 5.Protection class up to IP65, good substitution for solenoid valve or the environment which solenoid valve can not work, can be used in a relatively humid environment

Model	Working pressure	Output torque	Open/close time	Medium temp	Motor Power	Protection class
CWX-60P	Max1.0Mpa	Max6NM	<8s	0℃-90℃	<5W	IP65

Product dimension figure
(Detail valve size see P16)

Note: See P13-P16 for control mode wiring diagram

- | | |
|--|--|
| 1. IC card water meter,heat energy meter | 5.Replace solenoid valve which can not work |
| 2.HVAC and fire works | 6.Water saving instrument,drinking water equipment |
| 3.Water saving of high-school,auto-control system,industrial mini-auto equipment | 7.CR02/AC24v for water heating industry |
| 4.Environment protection,water supply and drainage,water treatment | |

Brass 2way	Size	L1	H
	DN8F	8	46
	DN10R	8	46
	DN15F	15	57
	DN20R	15	66
	DN20F	20	71
	DN25R	20	72
	DN25F	25	72
	DN32R	25	86

Stainless Steel	DN8F	8	46	31
	DN10R	8	46	31
	DN15	15	55	38
	DN20R	15	63	39
	DN20F	20	71	45
	DN25R	20	75	47
	DN25F	25	72	49



Timing valve CWX-15Q / N series
Timing mode and countdown mode

■ Product Description

Can be used to regularly cycle to the drainage equipment, the occasion need valve to automatically open and close, you can achieve automatic unattended water supply and drainage, timing accuracy, stability, timing valve is the best choice. Input work voltage range DC9-24V.

■ Technical Parameters

Model	Voltage	Working current	Output Torque	Size	Open/close time	Protection class	Pressure	Medium temp
CWX-15N	DC9-24V	<100mA	Max2.0NM	DN8-DN32	<5s	IP65	Max1.0MPa	0-90℃

■ Application

1. Timing watering, humidification, air compressor timing drainage and other equipment.
2. Industry-controlled and mini equipment, environmental protection, water supply and drainage, water treatment works.
3. Heat meters, central air conditioning fan coil, fire sprinkler;
4. High-school water-saving, automatic control system;
5. Water-saving appliances, drinking water equipment

Note:
1. The timing valve product technical parameters is same with the CWX-15Q / N series of technical parameters.

2. Dimension drawing of the product is same as CWX-15Q / N series dimension drawing.

■ Operating Instructions (two modes)

Timing mode

1. The valve can be set three times, each time to open the valve does not exceed 24 hours, if need to cancel the timing, valve opening and closing time will be set to 9999.
2. The three buttons on the panel are the setting key "SET", the increase key ▲, and the decrease key ▼
3. After the valve is power-on, it will start self-test, open the valve automatically once (panel display OPEN), close the valve once (panel display OFF).
4. After the self-test, the valve is normally closed, the panel shows "00:00", indicating the valve into the normal working condition; If no key operation over one minute, the valve into energy-saving mode, panel display ".", can increase the key ▲ Or decrease the key ▼ to wake up.
5. Entering the normal state, first adjust the valve time. (Specific steps to see the instructions)

Countdown mode

1. Can set open and close time, open and close valve time can be set from 1 second to 99 hours ;
2. The three buttons on the panel are the setting key "SET", the increase key ▲, and the decrease key ▼ ;
3. When the valve opening time start, the valve automatically opens, panel display "OPEN" ; When closing time start, the valve automatically shut down, panel display "OFF" ; open and close the valve automatically cycle.

■ Connection Dimension

Brass 2way	Size	L1	H
	DN8F	8	31
	DN10R	8	31
	DN15F	15	38
	DN20R	15	38
	DN20F	20	45
	DN25R	20	47
	DN25F	25	49
	DN32R	25	60

Stainless Steel	DN8F	8	46	31
	DN10R	8	46	31
	DN15	15	55	38
	DN20R	15	63	39
	DN20F	20	71	45
	DN25R	20	75	47
	DN25F	25	72	49



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CWX-15N/60P series
Angle adjustable valve

Product Features

1. Valve can with angle adjustable to control the flow rate, it can realize four position adjustment.
2. Electrical limit and machinery limit design, accurate position, high consistency, avoid actuator stable running
3. Automatically power off when in full open/close position, long service life, life time can up to 100,000 times
4. Multi-angle assembly, which is convenient for the allocation of space and more convenient to use
5. Float ball structure, no leakage, large flow, two way valve, both inlet and outlet, suitable for the occasion of heavy dirt or long time no action
6. IP65 production class, can use in moist conditions

Technical Parameters

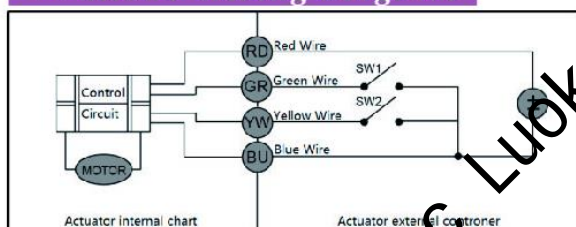
Model	Open/close time	Power	Medium temp	Size	Output torque	Special function
CWX-15N	<5s	<3W	0-90℃	DN8-32	Max2NM	Quick open/close time
CWX-60P	<8s	<5W	0-90℃	DN8-32	Max6NM	Large torque

Voltage	Working current	Protection class	Control mode/Wiring	Working pressure
DC9-24V	Max100mA	IP65	CR03T	Max 0.6Mpa

Application

1. IC card water meter, heat energy meter
2. HVAC and fire works
3. Water saving of high-school, auto-control system, industrial mini-auto equipment
4. Environment protection, water supply and drainage, water treatment
5. Replace solenoid valve which can not work
6. Water saving instrument, drinking water equipment

CR03T Wiring Diagram



K1	K2	Control state	note
Open	open	Full close	keeping
close	open	Open 30%	keeping
open	close	Open 60%	keeping
close	close	Full open	keeping

Product dimension figure see CWX-15N/60P and CWX-60P

Connection Dimensions

Brass 2way	Size	d	L1	H
	DN8F	8	46	31
	DN10R	8	46	31
	DN15F	15	57	38
	DN20R	15	66	38
	DN20F	20	71	45
	DN25R	20	72	47
	DN25F	25	72	49
	DN32R	25	86	60

Stainless Steel	DN8F	8	46	31
	DN10R	8	46	31
	DN15	15	55	38
	DN20R	15	63	39
	DN20F	20	71	45
	DN25R	20	75	47
	DN25F	25	72	49

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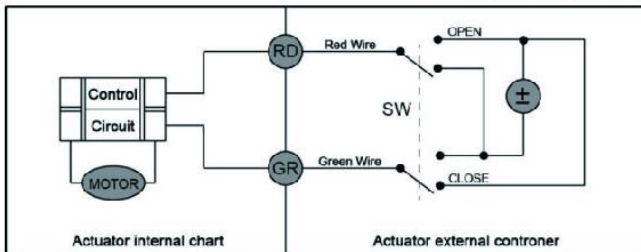
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CWX series mini wiring diagram(total 13 kinds of control mode)

■ ■ CR01 (two wires and reverse polarity)

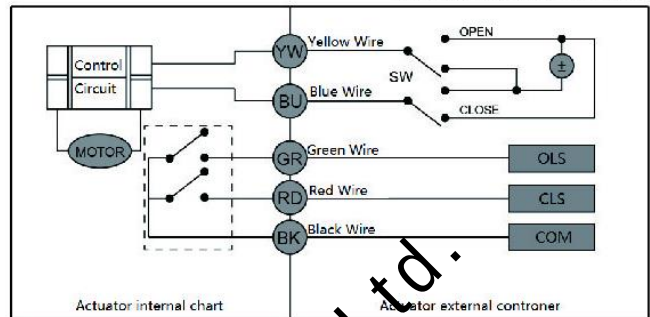
Voltage : DC3-6V/12V/9-24V



1. Connecting SW to OPEN, the valve opens , getting the position automatically power off, the valve remain fully open position
2. Connection SW to CLOSE, the valve close , getting the position automatically power off, the valve remains fully close position

■ ■ CR01S

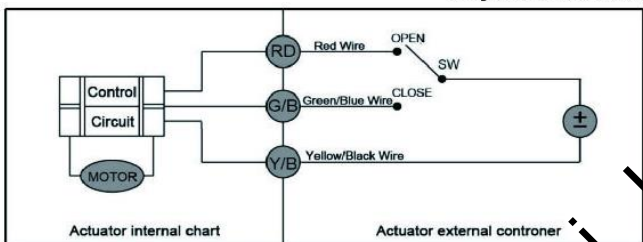
feedback voltage≤DC36V currents≤0.5A



1. Connecting SW to OPEN, the valve opens, getting the position , automatically power off, the valve remain fully open position, meanwhile output open position signal
2. Connection SW to CLOSE, the valve close, getting the position , automatically power off, the valve remains fully close position, meanwhile output close position signal

■ ■ CR02 (three wires two point control)

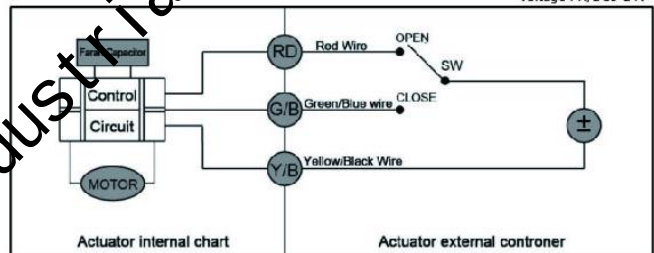
Voltage : DC3-6V/12V/ DC9-24V



1. Connecting SW to OPEN, the valve opens, getting the position , automatically power off, the valve remain fully open position
2. Connection SW to CLOSE, the valve close , getting the position , automatically power off, the valve remains fully close position

■ ■ CR02+ (two wires and fail-safe/power-off return)

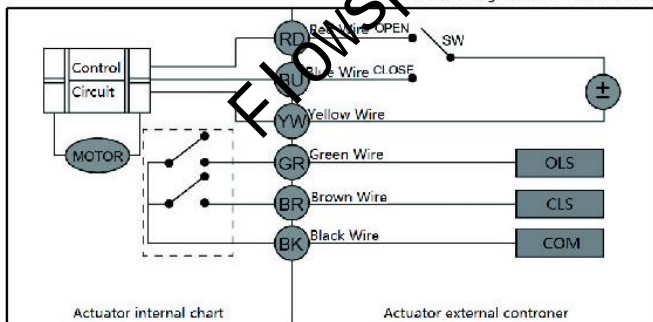
Voltage : A/DC9-24V



1. Connecting SW to OPEN, the valve opens, getting the position and automatically power off, the valve remain fully open position
 2. Disconnecting SW to CLOSE, the valve close, getting the position and automatically power off, the valve remains fully close position
- Note : As the power-off and valve will be return automatically, and RD/G(B)/Y(B) 3wires can not be power-on together to keep valve safe.

■ ■ CR02S

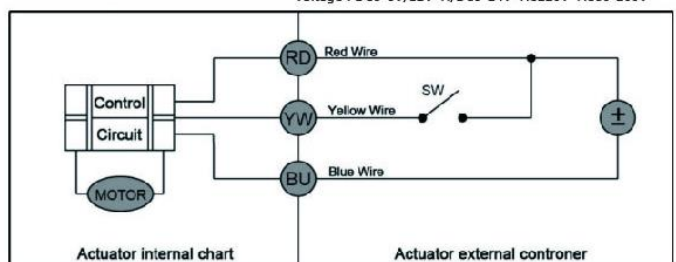
feedback voltage≤DC36V currents≤0.5A



1. Connecting SW to OPEN, the valve opens, getting the position automatically power off, the valve remain fully open position, meanwhile output open position signal
2. Connection SW to CLOSE, the valve close, getting the position automatically power off, the valve remains fully close position meanwhile output close position signal

■ ■ CR03 (three wires one control)

Voltage : DC3-6V/12V A/DC9-24V AC220V AC85-265V

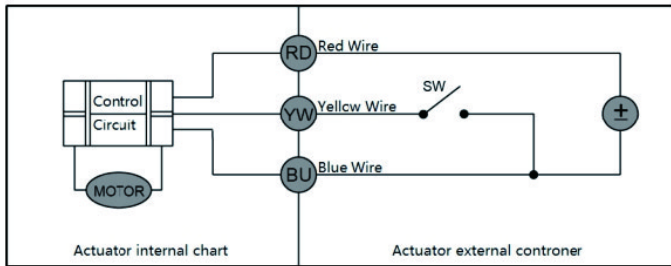


Note : When power is DC voltage and Red Wires is "+", Blue wire is "-"

1. Connecting SW, the valve opens, getting the position, automatically power off, the valve remain fully open position, meanwhile output open position signal
2. Disconnecting SW, the valve close, getting the position, automatically power off, the valve remains fully close position, meanwhile output close position signal

■ CR03A (three wires one control with "-")

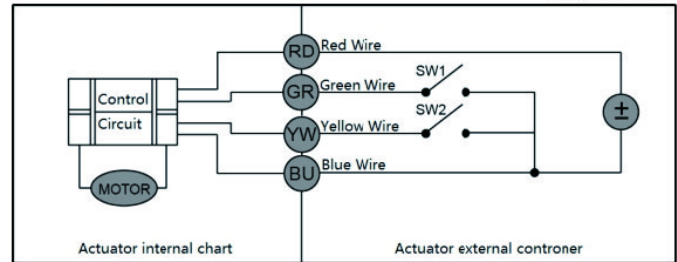
Voltage : DC3-6V/12V A/DC9-24V



1. Connecting SW, the valve opens, getting the position, automatically power off, the valve remain fully open position
2. Disconnecting SW, the valve close, getting the position, automatically power off, the valve remains fully close position

■ CR03T (angle adjustable)

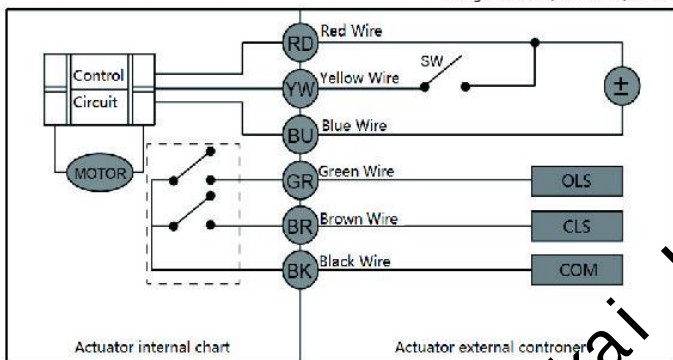
Voltage : DC9-24V



1. SW1 open, SW2 open, valve full close, getting the position valve remains fully close position
2. SW1 close, SW2 open, valve open 30°, getting the position valve remains open 30° position
3. SW2 close, SW1 open, valve open 60°, getting the position valve remains open 60° position
4. SW1 close, SW2 close, valve full open, getting the position valve remains fully open position

■ CR03S

Voltage : DC3-6V/ADC9-24V/AC220V

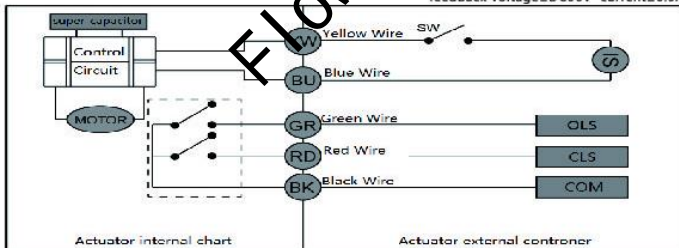


1. Connecting SW, the valve opens, getting the position, automatically power off, the valve remain fully open position, meanwhile -output open position signal
2. Disconnecting SW, the valve close, getting the position, automatically power off, the valve remains fully close position, meanwhile output close position signal

Note : When power is DC voltage and Red Wire is "+", Blue wire is "-"

■ CR04S

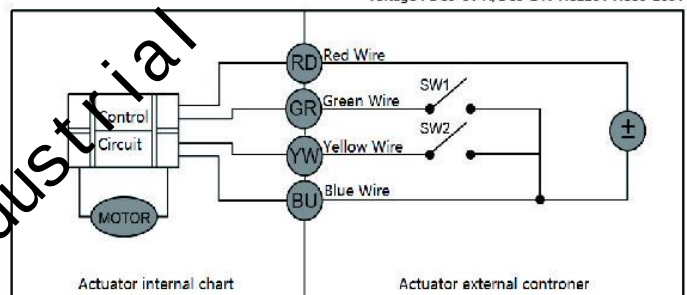
feedback voltage≤DC36V current≤0.5A



1. SW connecting, the valve open, getting the position and the power off automatically, the valve remains fully open/close position, meanwhile output open position signal
2. SW disconnecting, the valve close, getting the position and power off automatically, the valve remains fully open/close position, meanwhile output close position signal

■ CR04 (two wires and fail-safe/power-off return)

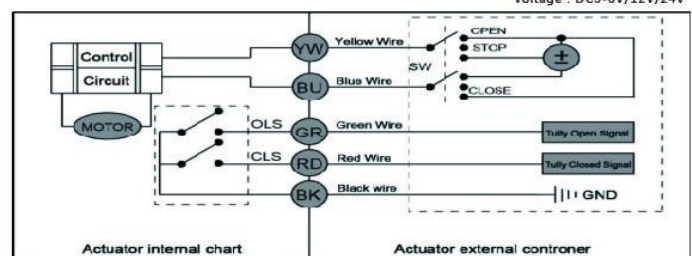
Voltage : DC3-6V A/DC9-24V AC220V AC85-265V



1. SW connecting, the valve open, getting the position and the power off automatically, the valve remains fully open/close position
2. SW disconnecting, the valve close, getting the position and power off automatically, the valve remains fully open/close position

■ CR05 (five wires micro controller with signal feedback)

Voltage : DC3-6V/12V/24V

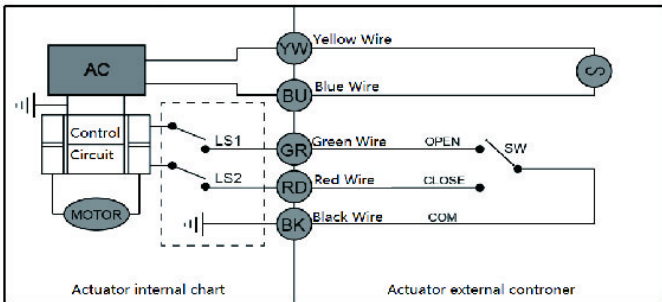


1. Connecting SW and OPEN, the valve opens, getting the position, LS. 1 connection, the controller tested and find the signal of AOLS, the valve remains fully open position.
2. Connecting SW and CLOSE, the valve opens, getting the position LS. 2 connection, the controller tested and find the signal of AOLS, the valve remains fully open position.

Note : Please make sure the signal wires "red", "black" and "green" be connected at first, then connect the power wires "yellow" and "blue"

■ ■ CR06 (five wires control)

Voltage : AC220V



1. Connecting SW and OPEN, the valve opens, getting the position, automatically power off, the valve remains fully open position.
2. Connecting SW and CLOSE, the valve close, getting the position, automatically power off, the valve remains fully close position.

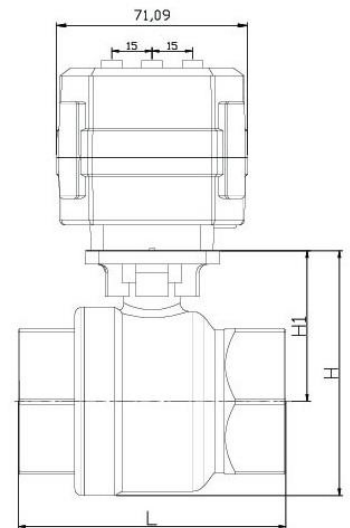
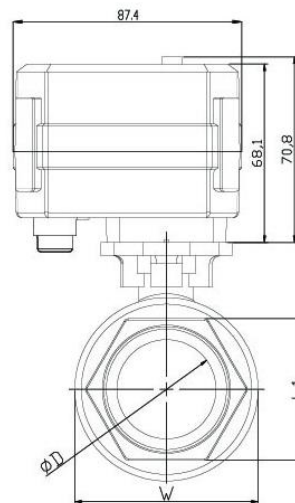
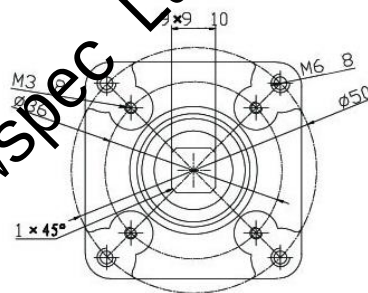
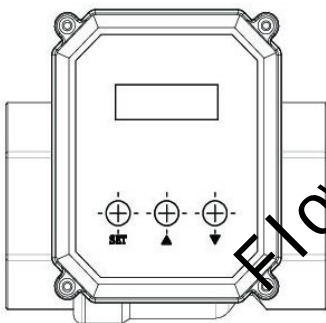


CTF001 series 4-20mA modular type valve
(Can with automatic mode and manual mode)

■ ■ Product Features

1. Can achieve 4-20mA angle adjustable, control the flow
2. With high performance industrial computer core, LCD display, large output torque, high temperature resistance
3. Input signal is valid in the 1Km, can control the valve regular, out of range the signal attenuation
4. Has two working modes: automatic mode (input signal to control open and close), manual mode (button control open and close);

■ ■ Product dimension figure



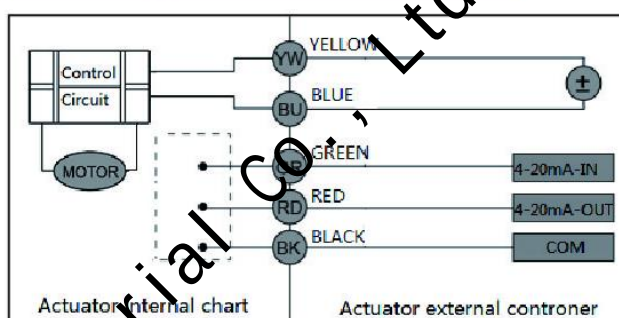


CTF001 series 4-20mA modulating type valve
(Can with automatic mode and manual mode)

■ Technical Parameters

Valve size	DN8-DN32	Voltage	DC12v/DC24v
Output torque	10NM	Open/close time	<30s
Working pressure	<1.6MPa	Life time	50,000 times
Motor power	<5W	Working current	<200mA
Medium temperature	0-90℃	Protection class	IP65
Input and output signal	4-20mA	Control accuracy	0.5%~1%

■ Wiring Instruction



■ Operating instructions

The electric actuator has two working modes: automatic mode (input signal to control open and close), manual mode (button control open and close);

1. In the manual mode, no operation for 30 seconds, automatically return to automatic mode, receive input 4-20mA signal to control;
2. When the input signal is disconnected, or the signal is less than 3mA (the lowest standard, normal 4mA), display "OFF" to warn signal disconnect
3. Automatic stop processing the input signal less than 4mA or large than 20mA which caused by abnormal reason, prevent valve action;
4. In automatic mode, you can see the size of the input signal at any time (show as a percentage, such as the 12mA display is 50%), convenient for debugging;
5. Press the button 1 to switch the "automatic / manual" mode, the size display flashing means manual mode, can be manually adjusted; press the button 1 again the size display stop flashing, means automatic mode
6. In the manual mode, press the 2 button to open the valve, release the button or valve in fully open position the valve automatically stop;
7. In the manual mode, press the 3 button to close the valve, release the button or valve in fully close position the valve automatically stop.

■ Connection Dimensions

Brass 2way	Size	DN	L1	H
	DN8F	8	46	31
	DN10R	8	46	31
	DN15F	15	57	38
	DN20R	15	66	38
	DN20F	20	71	45
	DN25R	20	72	47
	DN25F	25	72	49
	DN32R	25	86	60

Stainless Steel	DN8F	8	46	31
	DN10R	8	46	31
	DN15	15	55	38
	DN20R	15	63	39
	DN20F	20	71	45
	DN25R	20	75	47
	DN25F	25	72	49