




catalog 2016

motorized valves


supplier 1001

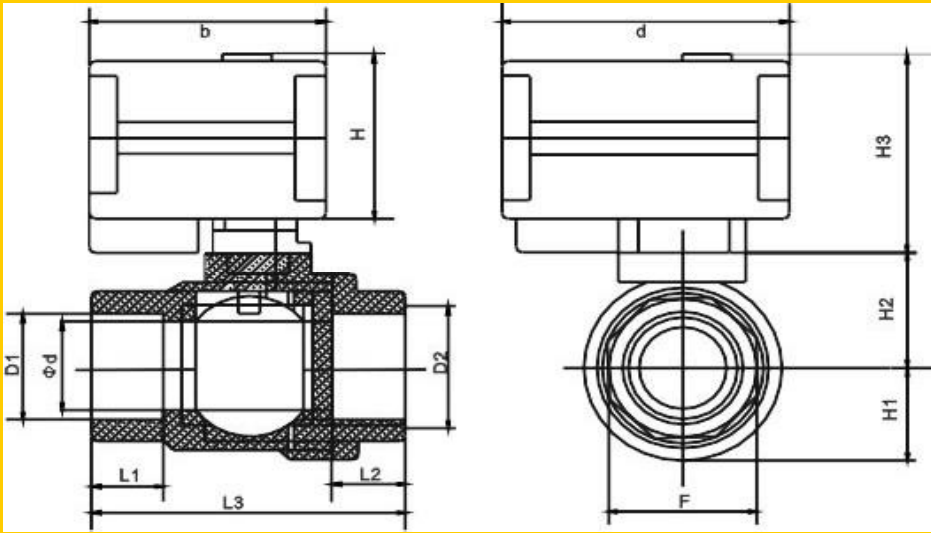
Model: VCMRxxx-115

TECHNICAL PARAMETERS														
Series	Max torque	Operating time	Working voltage	Max power	Enclosure	Max pressure	Medium temperature	Ambient temperature						
VCM-115	2N.m	3Sec	DC5V	<2W	IP65	1.6Mpa	0-100℃	-20℃<t<45℃						
			AC/DC9-24V											
			AC85-265V											
			FEATURES					APPLICATION						
			Mini dimension suit for small equipment					HVAC						
			Patented technology-floating seal structure					Water treatment						
			Long service life:80000-100000 circles					Chemical process						
			Low working current, suitable for battery driving					Small equipment for automatic Control						
			Quickly open and position indicator					Replacing solenoid valve, particularly when solenoid can't work reliably						
			Metal gearbox and POM gear											
			High flow capability											
								PARTS	MATERIAL					
								Actuator housing	ABS					
								Valve body	Brass					
								Valve ball	Brass					
								Stem	Brass					
								Ball seat	PTFE					
								Seal	EPDM					
Valve body Dimension(mm)		Size	D1/D2	Φd	L1	L2	L3	F	H1	H2	H3	b	d	W(kg)
Both female screw		DN8	G1/4"	8	11	11	41	21	12	18	50	52	62	0.258
		DN15	G1/2"	15	11	11	54	27	16	22	50	52	62	0.342
		DN20	G3/4"	15	10	10	61	30	22	22	50	52	62	0.330
		DN25	G1"	20	16	18	73	38	26	26	50	52	62	0.499
Female and male screw		DN25	G1"	20	14	15	91	38	20	24	50	52	62	0.502
		DN32	G5/4"	20	16	16	79	46	25	25	50	52	62	0.502
Full port		DN20	G3/4"	20	15	15	70	30	20	25	50	52	62	0.446
		DN25	G1"	25	20	20	82	38	23	28	50	52	62	0.627
WIRING														
R201		R302		R301/R303		R202		R505		R506				
Standard control		Two point control		One point control		Auto-return		Signal feedback		Two point control				
2 wires		3 wires		3 wires		2 wires		5 wires		5 wires				

Model: VCSRxxx-115

TECHNICAL PARAMETERS													
Series	Max torque	Operating time	Working voltage	Max power	Enclosure	Max pressure	Medium temperature	Ambient temperature					
VCS-115	2N.m	3-5S	DC5V	<2W	IP65	1.6Mpa	0-100℃	-20℃<t<45℃					
			AC/DC9-24V										
			AC85-265V										


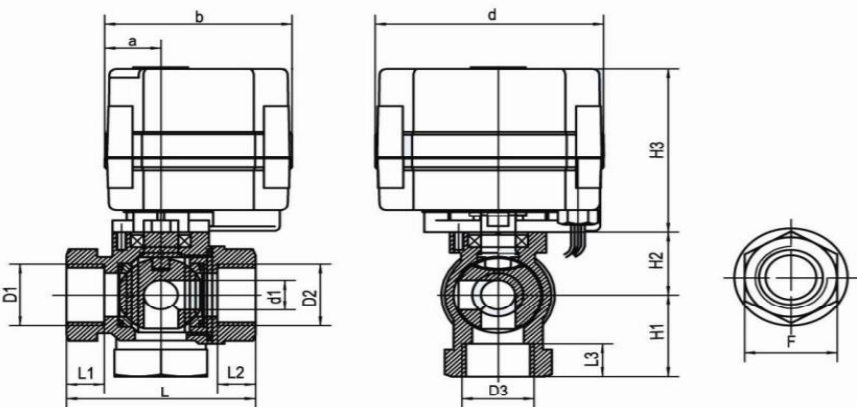
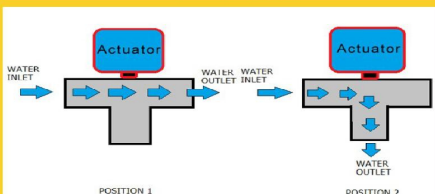
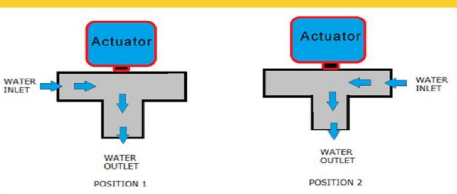
 colours may vary	FEATURES						APPLICATION	
	Mini dimension suit for small equipment						HVAC	
	Patented technology-floating seal structure						Water treatment	
	Long service life:80000-100000 circles						Chemical process	
	Low working current, suitable for battery driving						Small equipment for automatic Control	
	Quickly open and position indicator						Replacing solenoid valve, particularly when solenoid can't work reliably	
	Metal gearbox and POM gear							
	High flow capability							

	PARTS	MATERIAL
	Actuator housing	ABS
	Valve body	SS304,316
	Valve ball	SS304,316
	Stem	SS304,316
	Ball seat	PTFE
	Seal	EPDM


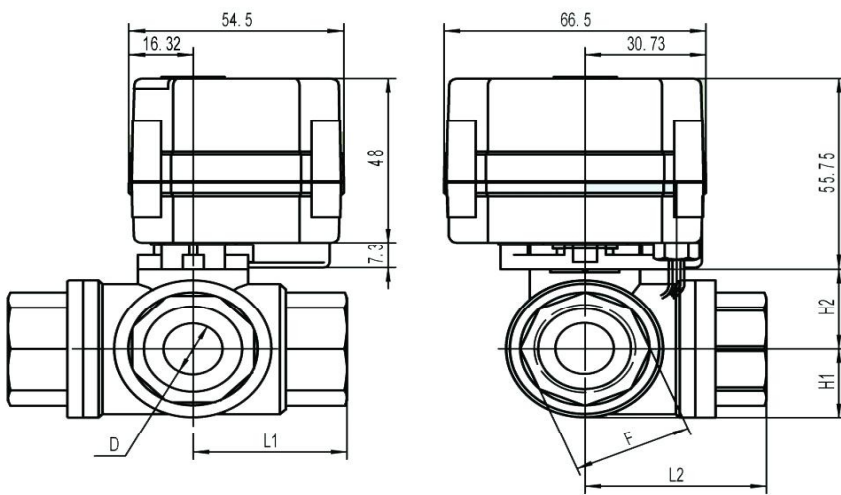
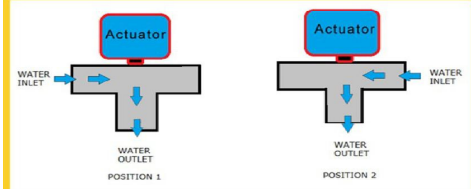
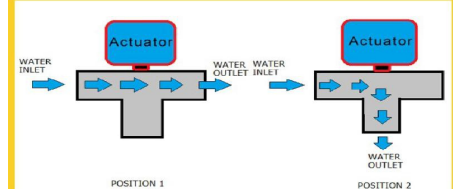
Valve body Dimension(mm)		Size	D1/D2	Φd	L1	L2	L3	F	H1	H2	H3	b	d	W(kg)
Both female screw		DN15	G1/2"	15	11	11	54	27	16	22	50	52	62	0.34
		DN20	G3/4"	15	10	10	61	30	22	22	50	52	62	0.33
		DN25	G1"	20	16	18	73	38	26	26	50	52	62	0.50

WIRING						
R201	R302	R301/R303		R202	R505	R506
Standard control	Two point control	One point control		Auto-return	Signal feedback	Two point control
2 wires	3 wires	3 wires		2 wires	5 wires	5 wires


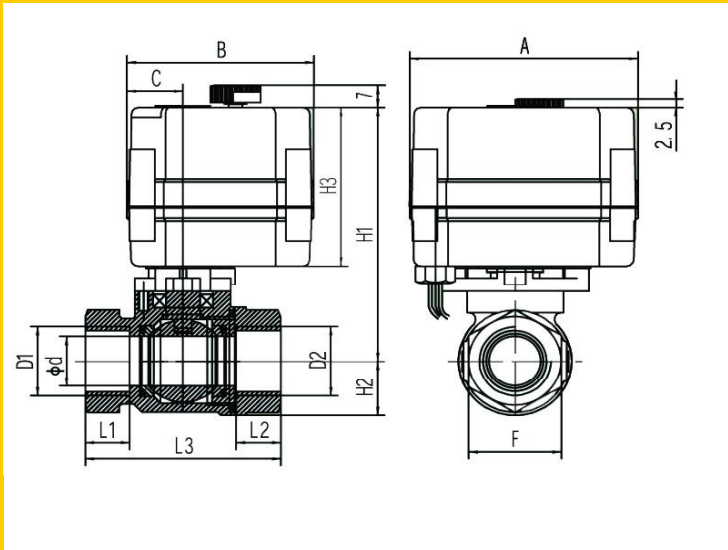
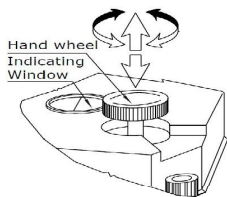
Model: VDVxMRxxx-115

TECHNICAL PARAMETERS												
Series	Max torque	Operating time	Working voltage	Max power	Enclosure	Max pressure	Medium temperature	Ambient temperature				
VDVLM-115 VDVTM-115	2N.m	3Sec	DC5V	<2W	IP65	1.6Mpa	0-100℃	-20℃<t<45℃				
			AC/DC9-24V									
			AC85-265V									
 colours may vary			FEATURES				APPLICATION					
Mini dimension suit for small equipment				HVAC and fire works								
Patented technology-floating seal structure				IC Card water treatment								
Long service life:80000-100000 circles				Chemical process								
Low working current, suitable for battery driving				Small equipment for automatic Control								
Quickly open and position indicator				Irrigation equipment,solar water heaters, washing machines,industrial humidifier.								
Metal gearbox and POM gear												
High flow capability												
			PARTS	MATERIAL								
			Actuator housing	ABS								
			Valve body	Brass								
			Valve ball	Brass								
			Stem	Brass								
			Ball seat	PTFE								
			Seal	EPDM								
CONNECTION SIZE											Unite(mm)	
Size	D1/D2/D3	d1	L1/L2/L3	L	H1	H2	H3	b	d	a	F	W(kg)
DN15	G1/2"	15	11	55	26	22	50	61.5	52	16	27	0.342
DN20	G3/4"	15	10	66	31.5	22.5	33	58	54.5	20	30	0.330
“L” Flow										FLOW DIRECTION		
												
WIRING												
R201	R302	R301/R303		R202	R505		R506					
Standard control	Two point control	One point control		Auto-return	Signal feedback		Two point control					
2 wires	3 wires	3 wires		2 wires	5 wires		5 wires					


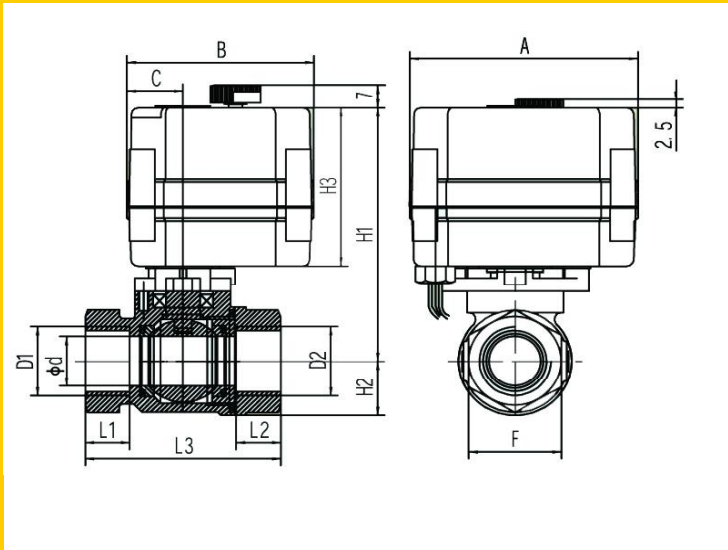
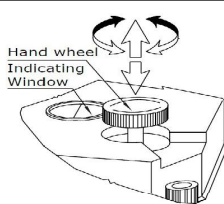
Model: VDHxMRxxx-115

TECHNICAL PARAMETERS								
Series	Max torque	Operating time	Working voltage	Max power	Enclosure	Max pressure	Medium temperature	Ambient temperature
VDHLM-115 VDHTM-115	2N.m	5S	DC5V	<2W	IP65	1.6Mpa	0-100℃	-20℃<t<45℃
			AC/DC9-24V					
			AC85-265V					
			FEATURES			APPLICATION		
			Mini dimension suit for small equipment			HVAC and fire works		
			Patented technology-floating seal structure			IC Card water treatment		
			Long service life:80000-100000 circles			Chemical process		
			Low working current, suitable for battery driving			Small equipment for automatic Control		
			Quickly open and position indicator			Irrigation equipment,solar water heaters, washing machines,industrial humidifier.		
			Metal gearbox and POM gear					
			High flow capability					
			PARTS	MATERIAL				
			Actuator housing	ABS				
			Valve body	Brass				
			Valve ball	Brass				
			Stem	Brass				
			Ball seat	PTFE				
			Seal	EPDM				
CONNECTION SIZE							Unite(mm)	
Size	D	H1	H2	L	L1	L2	F	W(kg)
DN8	6	11	18.25	50	25	25	17	0.190
DN15	15	20	23.25	86	39	47	31	0.342
DN20	15	20.25	23.25	92.5	45.5	52.5	38	0.330
"L" Flow			"T" Flow			FLOW DIRECTION		
								
WIRING								
R201	R302	R301/R303	R202	R505	R506			
Standard control	Two point control	One point control	Auto-return	Signal feedback	Two point control			
2 wires	3 wires	3 wires	2 wires	5 wires	5 wires			


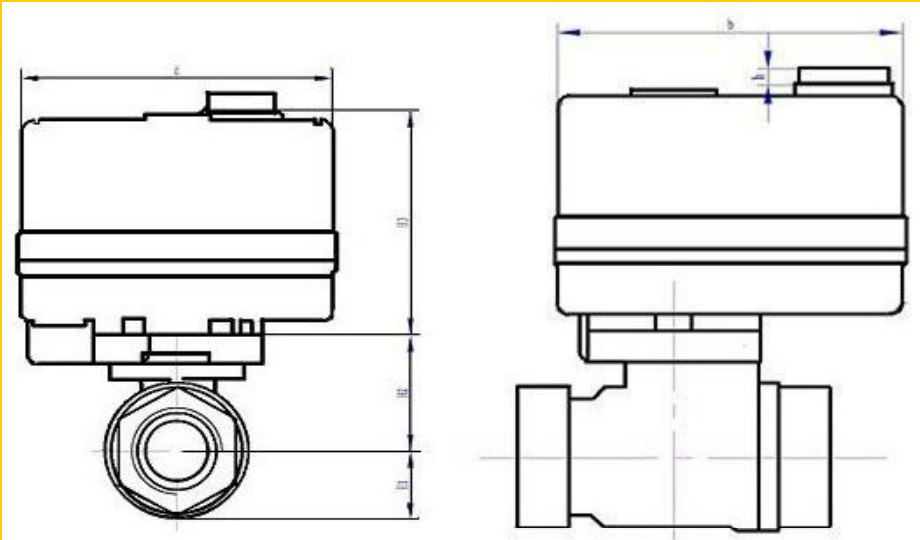
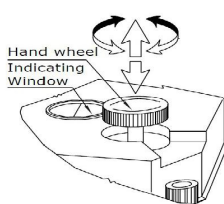
Model: VCMRxxx-125

TECHNICAL PARAMETERS														
Series	Max torque	Operating time	Working voltage	Max power	Enclosure	Max pressure	Medium temperature	Ambient temperature						
VCM-125	2N.m	7Sec	DC5V	<2W	IP65	1.6Mpa	0-100℃	-20℃<t<45℃						
			AC/DC9-24V											
			AC85-265V											
<div><p>colours may vary</p></div>									FEATURES			APPLICATION		
									Mini dimension suit for small equipment			HVAC		
									Patented technology-floating seal structure			Water treatment		
									Long service life:80000-100000 circles			Chemical process		
									Low working current, suitable for battery driving			Small equipment for automatic Control		
									Manual override and position indicator			Replacing solenoid valve, particularly when solenoid can't work reliably		
									Metal gearbox and POM gear					
									High flow capability					
<div></div>									PARTS		MATERIAL			
									Actuator housing		ABS			
									Valve body		Brass			
									Valve ball		Brass			
									Stem		Brass			
									Ball seat		PTFE			
									Seal		EPDM			
Valve size(mm)		Size	D1/D2	Φd	L1/L2	L3	F	A	B	C	H3	H2	H1	W(kg)
available in DN8,DN10,DN15,DN20,DN25 and DN32														
WIRING														
R201			R302			R301/R303			R202			R505		
Standard control feedback			Two point control			One point control			Auto-return			Signal		
<div></div>		INDUSTRITION FOR MANUAL OVERRIDE												
		It is only permitted to use when power- off.												
		Lift the hand-wheel, and turn it left or right until the valve is in place.												
		When the black line on the indicator is horizontal, the valve is on; when vertical, the valve is off.												
		Press down hand-wheel after using manual override in order to work properly when power-on												

Model: VCMRxxx-125 fp


TECHNICAL PARAMETERS													
Series	Max torque	Operating time	Working voltage	Max power	Enclosure	Max pressure	Medium temperature	Ambient temperature					
VCM-125fp	2N.m	7Sec	DC5V	<2W	IP65	1.6Mpa	0-100℃	-20℃ < t < 45℃					
			AC/DC9-24V										
			AC85-265V										
			FEATURES				APPLICATION						
			Mini dimension suit for small equipment				HVAC						
			Patented technology-floating seal structure				Water treatment						
			Long service life:80000-100000 circles				Chemical process						
			Low working current, suitable for battery driving				Small equipment for automatic Control						
			Manual override and position indicator				Replacing solenoid valve, particularly when solenoid can't work reliably						
			Metal gearbox and POM gear										
			High flow capability										
			PARTS	MATERIAL									
			Actuator housing	ABS									
			Valve body	Brass (ROHS PASS)									
			Valve ball	Brass (SS304)									
			Stem	Brass (ROHS PASS)									
			Ball seat	PTFE									
			Seal	EPDM									
Valve size(mm)	Size	D1/D2	Φd	L1/L2	L3	F	A	B	C	H3	H2	H1	W(kg)
Both Female screw (Full port)	DN15	G1/2"	15	13	57	27	66.5	55	16	48	16.5	27	0.37
	DN20	G3/4"	20	16	70	32	66.5	55	16	48	21.5	81	0.52
	DN25	G1"	25	20	82	38	66.5	55	16	48	21.5	81	0.68
WIRING													
			R201	R302	R301/R303	R202	R505						
			Standard control feedback	Two point control	One point control	Auto-return	Signal						
			INDUSTRITION FOR MANUAL OVERRIDE										
			It is only permitted to use when power- off.										
			Lift the hand-wheel, and turn it left or right until the valve is in place.										
			When the black line on the indicator is horizontal, the valve is on; when vertical, the valve is off.										
			Press down hand-wheel after using manual override in order to work properly when power-on										

Model: VCSRxxx-125fp

TECHNICAL PARAMETERS														
Series	Max torque	Operating time	Working voltage	Max power	Enclosure	Max pressure	Medium temperature	Ambient temperature						
VCS-125fp	2N.m	7Sec	DC5V	<2W	IP65	1.6Mpa	0-100℃	-20℃<t<45℃						
			AC/DC9-24V											
			AC85-265V											
			FEATURES					APPLICATION						
			Mini dimension suit for small equipment					HVAC						
			Patented technology-floating seal structure					Water treatment						
			Long service life:80000-100000 circles					Chemical process						
			Low working current, suitable for battery driving					Small equipment for automatic Control						
			Manual override and position indicator					Replacing solenoid valve, particularly when solenoid can't work reliably						
			Metal gearbox and POM gear											
			High flow capability											
									PARTS	MATERIAL				
									Actuator housing	ABS				
									Valve body	SS304,316				
									Valve ball	SS304,316				
									Stem	SS304,316				
									Ball seat	PTFE				
									Seal	EPDM				
Valve size(mm)	Size	D1/D2	Φd	L1	L2	L3	F	h	H1	H2	H3	b	d	W(kg)
Both Female screw	DN15	G1/2"	15	11	11	54	27	4.5	16	22	55	73	61	0.38
	DN20	G3/4"	15	10	10	62	30	4.5	16	22	55	73	61	0.42
	DN25	G1"	20	16	18	73	38	4.5	22	25	55	73	61	0.53
WIRING														
			R201	R302	R301/R303			R202			R505			
			Standard control feedback	Two point control	One point control			Auto-return			Signal			
			INDUSTRITION FOR MANUAL OVERRIDE											
			It is only permitted to use when power- off.											
			Lift the hand-wheel, and turn it left or right until the valve is in place.											
			When the black line on the indicator is horizontal, the valve is on; when vertical, the valve is off.											
			Press down hand-wheel after using manual override in order to work properly when power-on											

Model: VCMRxxx-160 and VCSRxxx-160

TECHNICAL PARAMETERS								
Series	Max torque	Operating time	Working voltage	Max power	Enclosure	Max pressure	Medium temperature	Ambient temperature
VCM-160 VCS-160	6N.m	8Sec	DC9-24V	<6W	IP65	1.0Mpa	0-90℃	-20℃<t<45℃

 <p>colours may vary</p>	FEATURES		APPLICATION	
	Large torque,perform reliably,metal gear		HVAC&Fire sprinkler Service	
	Patented technology-floating seal structure		IC card water meter,Heat meter	
	Long service life:>80000 circles		Environmental protection Project	
	Low working current, suitable for battery driving		Small equipment for automatic Control water system	
	Angle adjustment to control the flow for valves		Water saving device	
	Good substitution for solenoid valve		Drinking water equipment and project	
	High flow capability			

PARTS		MATERIAL	
Actuator housing		ABS	
Valve body		Brass/SS	
Valve ball		Brass/SS	
Stem		Brass/SS	
Ball seat		PTFE	
Seal		EPDM/EPDM NBR/Si-O ring	

Wiring Diagram			
K1	K2	Control State	Note
Open	Open	Full close	Keeping
Close	Open	Open 30%±10%	Keeping
Open	Close	Open 60%±10%	Keeping
Close	Close	Full open	Keeping
1.K1 open+K2 open,valve full close and stay in full close position.			
2.K1 close+K2 open,valve open 30%,getting the position,valve keeping in this position.			
3.K1 open_K2 close,valve open 60%,getting the position,valve keeping in this position.			
4.K1 close+K2 close,valve full open and stay in full open position.			

valve body size available in DN8,DN15,DN20,DN25 and DN32

Model: VCMRxxx-150K

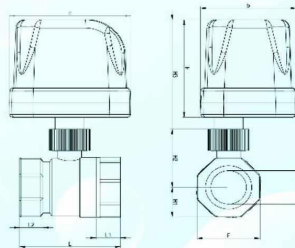
Motorized Valve-Quick Installation Valve



colours may vary

Suitable for

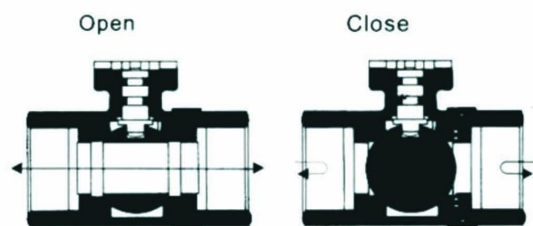
- 1, IC card meters, heat energy meters, air-warm valve.
- 2, HVAC and fire work.
- 3, Water equipment, auto-control water system, industrial mini-auto equipment
- 4, Irrigation equipment, drinking water equipment, solar water heaters, washing machines, water heaters, industrial



Valve Body Parameter

No	CONNECTION SIZE		Φd	L1	L2	L	F	H1	H2	H3	H	b	d
CWX-50K	DN20	3/4	17	13	13	60.6	31	16.5	33.5	77	68	63	80
	DN25	1"	23.5	14.5	14.5	66.7	38	22.5	39.5	77	68	63	80
	DN32	1	27	17	17	75	47	25	42	77	68	63	80

Valve Body Section Plan



Technical Parameter

Model	VCM-150K	
Rated Voltage	AC220V/AC24V	
Control Model	CR02/CR03(3Wires)	
Rated Current	<80mA	
Body Valve Material	Brass (58-3A)	
Output Torque	5.0MN	
Valve Size	3/4" to 1"	
KV's	3/4"	4.5 m3/h
	1"	5.7 m3/h
Valve Thread Screw	BSP / Both Female Screws	
Open/Close Time	<15 Seconds	
Enclosure	IP64	
Working Pressure	Maximum 1.6Mpa/(232Psi)	
Medium Temperature	2-90°C	
Motor	Synchronous Motor	
Power	22VA/4.5VA	

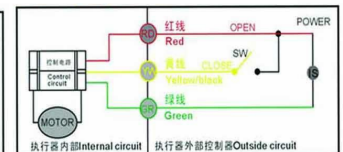
Abnormal Situation

No	Abnormal	Reason	Solution
01	Reverse direction between open and closed	Wiring connection error	Adjust the wiring of open and closed
02	Actuator does not working	Wiring connection error	Check the power and wiring
		Motor damage	Replace the Actuator
03	Screw connection cracking	Inappropriate screw Non-standard Installation Force too much	Replace the valve body
04	Don't fully open and closed for valve	Clogged /poor water quality	Clear the clog/add a filter


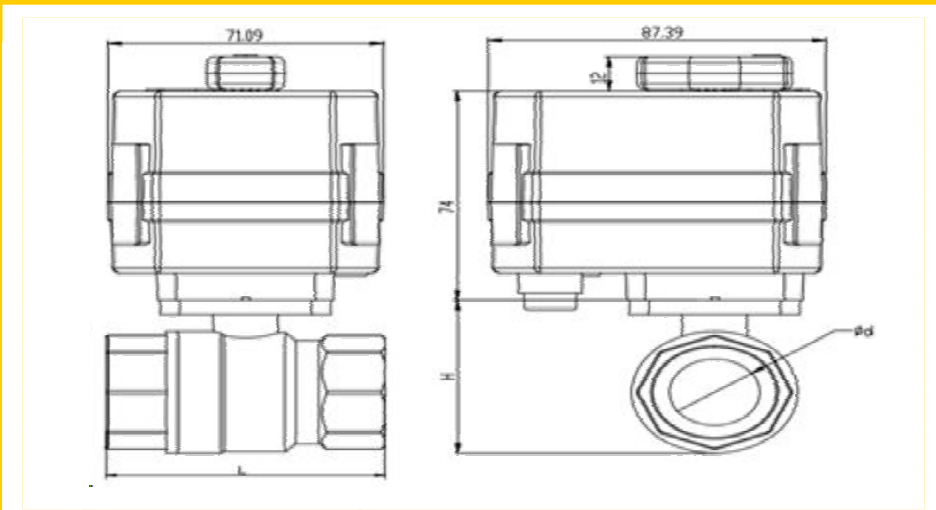
Wiring Diagrams (3 wires)

R302

R301 (sw+) or R303 (sw-)




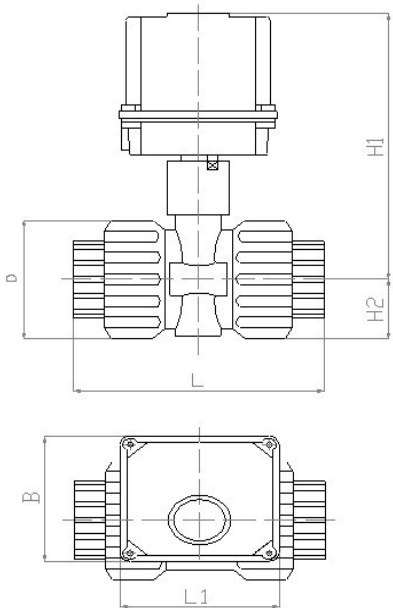
Model: VCMRxxx-1001, VCSRxxx-1001 and VCPRxxx-1001

TECHNICAL PARAMETERS								
Series	Max torque	Operating time	Working voltage	Max power	Enclosure	Max pressure	Medium temperature	Ambient temperature
VCM-1001 VCS-1001 VCP-1001	10N.m	<12Sec	DC5V	<22W	IP67	1.6Mpa	0-100℃	-20℃<t<45℃
AC/DC9-35V								
AC85-265V								
			FEATURES			APPLICATION		
			Mini dimension suit for small equipment			HVAC		
			Patented technology-floating seal structure			Water treatment		
			Long service life:80000-100000 circles			Chemical process		
			Low working current, suitable for battery driving			Small equipment for automatic Control		
			Quickly open and position indicator			Replacing solenoid valve, particularly when solenoid can't work reliably		
			Metal gearbox and POM gear					
			High flow capability					
						PARTS	MATERIAL	
						Actuator housing	ABS	
						Valve body	Brass,SS304,S316,UPVC	
						Valve ball	Brass,SS304,S316,UPVC	
						Stem	Stainless steel	
						Ball seat	PTFE	
						Seal	EPDM	
wirings:	Valve body Dimension(mm)		Size	D1/D2	Φ d	L	H	d
R201 Standard control 2 wires	Brass both female screw		DN15	G1/2"	15	55	43.5	15
			DN20	G3/4"	20	60	51.5	20
			DN25	G1"	25	70.5	59.5	25
			DN32	G1 1/4"	32	85.5	68	32
R302 Two point control 3 wires	Stainless steel both female screw		DN15	G1/2"	15	58	54	15
			DN20	G3/4"	20	65	66	20
			DN25	G1"	25	77	71	25
			DN32	G1 1/4"	32	90	84	32
			DN40	G1 1/2"	40	98	100	38
R301/R303 One point control 3 wires	UPVC both female screw		DN50	G2"	50	121	118	50
			DN15	G1/2"	15	121.5	56	12.8
			DN20	G3/4"	20	135	68	19
			DN25	G1"	25	150	75	25
			DN40	G1 1/2"	40	181	105	38
R202 Auto-return 2 wires			DN50	G2"	50	206	128	49
R505 Signal feedback 5 wires								

Model: VCPRxxx-1002

TECHNICAL PARAMETERS								
Series	Max torque	Operating time	Working voltage	Max power	Enclosure	Max pressure	Medium temperature	Ambient temperature
VCP-1002	20N.m	12Sec	AC220V	<16W	IP65	1.6Mpa	0-100℃	0℃<t<50℃

 <p>colours may vary</p>	FEATURES		APPLICATION	
	Mini dimension suit for small equipment		Water treatment industry	
	High performance/price ratio		Process control	
	Metal core, reliable quality and super torque		Industrial automation	
	Position indicator		Pharmaceutical equipment	
	Manual override is easy and convenient		Cleaning equipment	


	PARTS		MATERIAL	
	Actuator housing		ABS	
	Coupling		Die-casting metal	
	Bracket		Stainless Steel, Carbon steel	
	Valve body		UPVC	
	Valve ball		UPVC	
	Stem		UPVC	

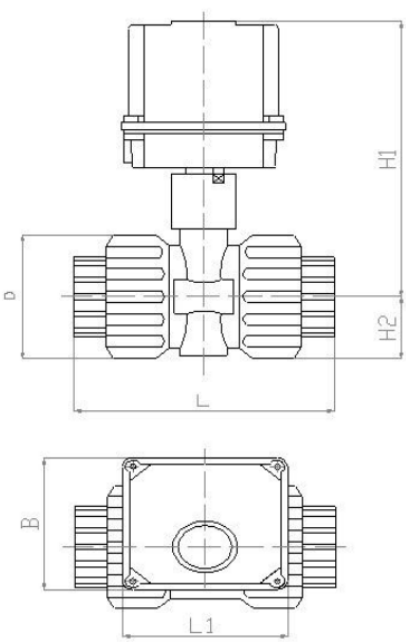
Valve body Dimension(mm)		Material	H1	H2	D	L	L1	B
DN15(1/2")		UPVC	175	27	54	113	136	86
DN20(3/4")			181.5	31.5	63	124	136	83
DN25(1")			188	36	72	142	136	83
DN32(1 -1/4")			199.5	48.5	97	179	136	83
DN40(1-1/2")			223.4	48.5	97	179	113	113
DN50			240.4	59.5	119	202	113	113

WIRING				
R611		R612		

Model: VCPRxxx-1005


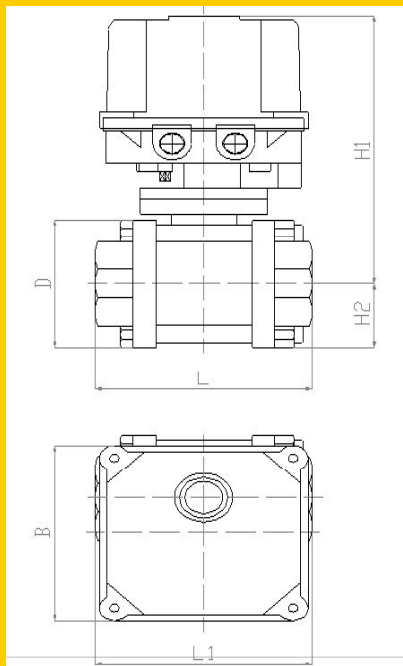
TECHNICAL PARAMETERS								
Series	Max torque	Operating time	Working voltage	Max power	Enclosure	Max pressure	Medium temperature	Ambient temperature
VCP-1005	50N.m	15Sec	DC12V DC24V AC220V	<16W	IP67	1.6Mpa	0-100℃	0℃<t<50℃

 <p>colours may vary</p>	FEATURES		APPLICATION	
	Mini dimension suit for small equipment		Water treatment industry	
	High performance/price ratio		Process control	
	Metal core, reliable quality and super torque		Industrial automation	
	Position indicator(Y/N)		Pharmaceutical equipment	
	Manual override is easy and convenient		Cleaning equipment	


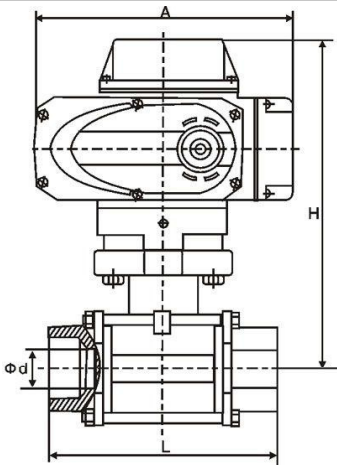
	PARTS		MATERIAL	
	Actuator housing		Aluminum Alloy	
	Coupling		Stainless Steel	
	Bracket		Stainless Steel	
	Valve body		UPVC	
	Valve ball		UPVC	
	Stem		Stainless Steel	

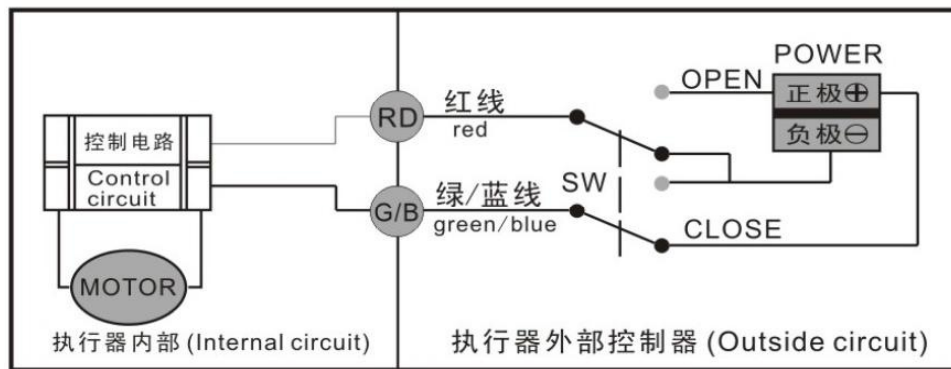
Valve body Dimension(mm)	Material	H1	H2	D	L	L1	B
DN15(1/2")	UPVC	175	27	54	113	136	86
DN20(3/4")		181.5	31.5	63	124	136	83
DN25(1")		188	36	72	142	136	83
DN32(1-1/4")		199.5	48.5	97	179	136	83
DN40(1-1/2")		223.4	48.5	97	179	113	113
DN50		240.4	59.5	119	202	113	113

Model: VCSRxxx-1010

TECHNICAL PARAMETERS									
Series	Max torque	Operating time	Working voltage	Max power	Enclosure	Max pressure	Medium temperature	Ambient temperature	
VCSR-1010	100N.m	18Sec	DC12V	<14W	IP67	1.6Mpa	0-100℃	0℃<t<60℃	
			AC/DC24V						
			AC220V						
 colours may vary			FEATURES			APPLICATION			
			Mini dimension suit for small equipment			Water treatment industry			
			High performance/price ratio			Process control			
			Metal core, reliable quality and super torque			Industrial automation			
			Position indicator			Pharmaceutical equipment			
			Manual override is easy and convenient			Cleaning equipment			
			PARTS			MATERIAL			
			Actuator housing			ABS			
			Coupling			Die-casting metal			
			Bracket			Stainless Steel, Carbon steel			
			Valve body			SS304, SS316			
			Valve ball			SS304, SS316			
			Stem			SS304, SS316			
Valve body Dimension(mm)			Material	H1	H2	D	L	L1	B
DN15(1/2")			SS304	175	27	54	113	136	86
DN20(3/4")				181.5	31.5	63	124	136	83
DN25(1")				188	36	72	142	136	83
DN32(1 -1/4")			SS316	199,5	48,5	97	179	136	83
DN40(1-1/2")				223,4	48,5	97	179	113	113
DN50(2")				240,4	59,5	119	202	113	113
WIRING									
CR11		CR12		CR13		CR14		CR15	
PRODUCT CERTIFICATE									

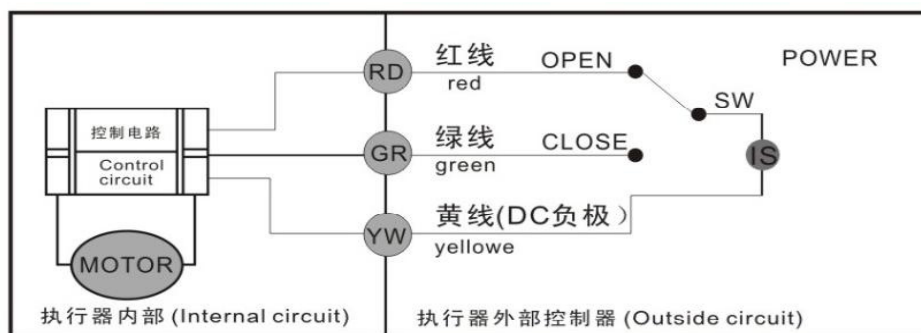
Model: VCxSRxxx-1005, -1016, -1025, -1050

PRODUCT					
<div></div>		<div></div>			
FEATURE					
<p>CTB-BRD series has owns characteristics of special design, beautiful appearance, strong function, operation endurance exceeding ten times of standard of same kind of product.</p> <p>It may be called to be endurable as diamond. The rotation valve electric appliance series product has a completely new appraisal from customers with its super performance and peerless advantage.</p>					
PARAMETERS&PERFORMANCE					
Actuator Parameters			Valve Parameters		
Power	AC110,220,380V/DC24V		Valve Size	DN15~DN100	
Torque	50N.M~500NM		Valve pressure	PN10/PN16	
Control	Switch/Contact -point Opening signal/Intelligent		Valve material	Carbon steel/Stainless Steel	
Action angle	0~90 degree ±5 degree		Ball material	304/316L	
Action time	15/30/60 Seconds		Input signal	0~10,1~5VDC/4~20mA	
Ambient Temperature	-20~60℃		Sealing	F46/F2/PP	
Manual override(Y/N)	Y		Media temperature	-50~150℃	
IP class	IP-68		Suitable media	Pure water,water, 50% glycol,Oil,Air	
DIMENSIONS					
Valve Size	d	L	A	H	Actuator Model
DN15	15	75	160	166	VCxS-1005
DN20	20	80	160	170	
DN25	25	90	160	180	
DN32	32	110	160	185	
DN40	38	120	160	198	
DN50	50	140	198	237	VCxS-1016
DN65	65	185	255	290	
DN80	78	205	255	302	VCxS-1025
DN100	98	240	255	320	VCxS-1050

WIRING DIAGRAMS for V...-100 - V...-199**R201** **Wiring diagram (two wires and reverse polarity)****Supply power:3-6VDC,9-24VDC**

1.Connecting SW and OPEN , the valve opens , getting the position ,automatically power off, the valve remain fully open position

2.Connecting SW and CLOSE , the valve close , getting the position ,automatically power off, the valve remains side passes position(fully closed)

R302 **Wiring diagram (three wires two control)****Supply power:3-6VDC,9-24VDC**

1.Connecting SW and OPEN , the valve opens , getting the position ,automatically power off, the valve remain fully open position

2.Connecting SW and CLOSE , the valve close , getting the position ,automatically power off, the valve remains side passes position(fully closed)

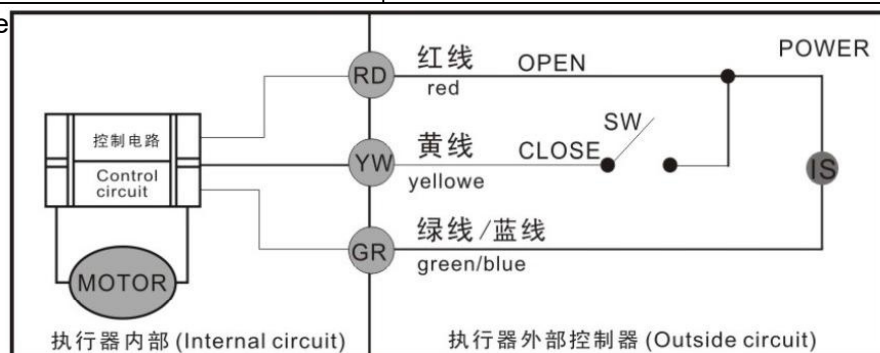
R301 **Wiring diagram (three wires one control)****Supply power:9-24VDC/AC,85-265VAC**

with switch to positive

or

R303

with switch to ground

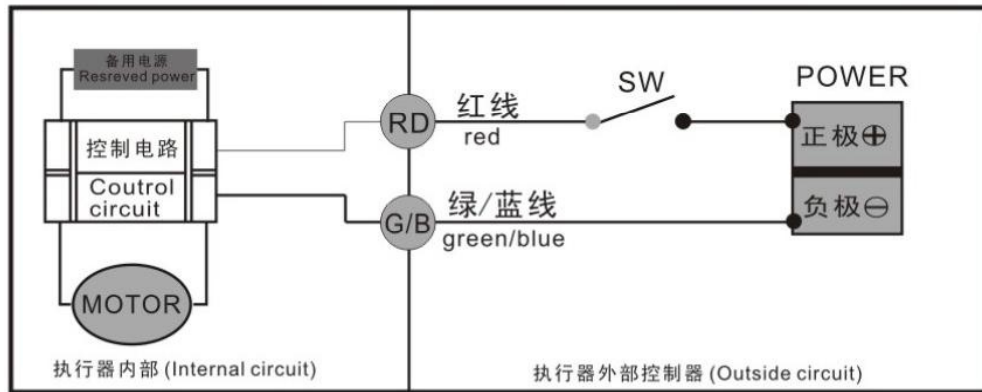


1.Connecting SW and OPEN , the valve opens , getting the position ,automatically power off, the valve remain fully open position

2.Connecting SW and CLOSE , the valve close , getting the position ,automatically power off, the valve remains side passes position(fully closed)

R202 Wiring diagram (two wires and fail-safe/power-off return)

Supply power: 3-6VDC,9-24VDC/AC,85-220VAC

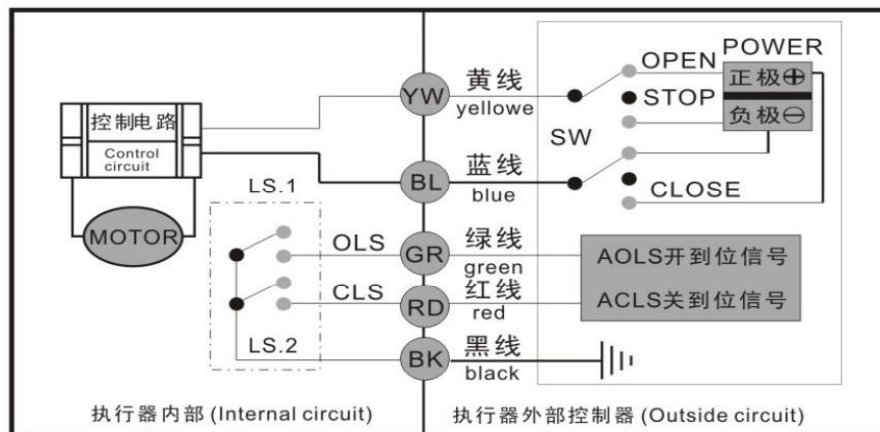


1.SW closed ,the valve open/close, getting the position, power off automatically, the valve remains fully open/close position

2.SW opened ,the valve open/close, getting the position, power off automatically, the valve remains fully open/close position

R505 Wiring diagram (five wires micro controller)

Supply power:3-6VDC,12VDC,24VDC

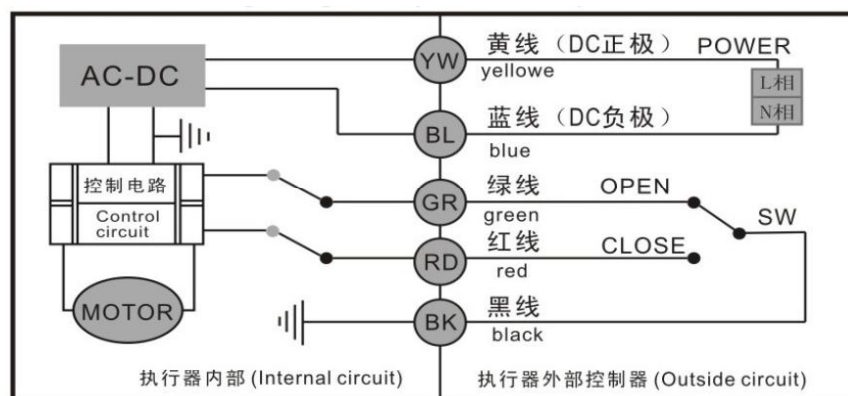


1.Connecting SW and OPEN , the valve opens , getting the position ,LS.1 connection, the controller tested and find the signal of AOLS, the valve remains fully open position, mean while power off automatically.

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, mean while power off automatically.

R506 Wiring diagram (five wires two control)

Supply power:9-24VDC/AC,220VAC



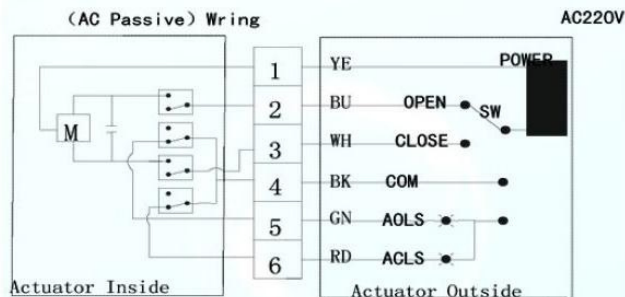
1.Connecting SW and OPEN , the valve opens , getting the position ,automatically power off, the valve remain fully open position

2.Connecting SW and CLOSE , the valve close , getting the position ,automatically power off, the valve remains side passes position(fully closed)

<http://www.ventilo.com>

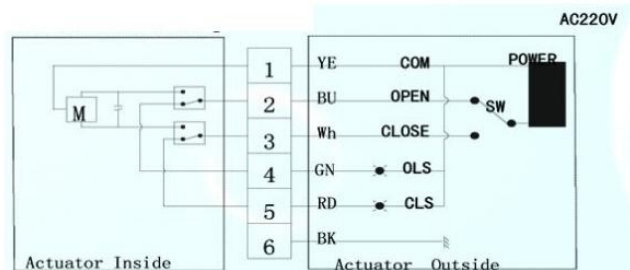
Wiring Diagrams

R611



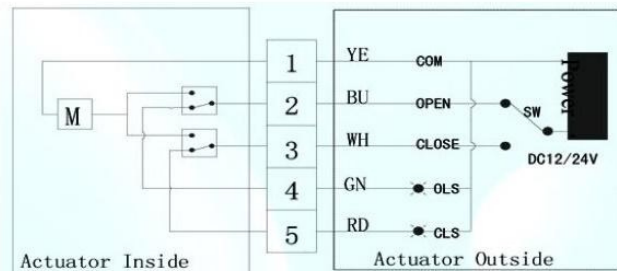
"SW" and "OPEN" connected, the valve open, the internal automatic power-off place
 The BK&GN output the open signal, the valve remains in the fully open state.
 "SW" and "CLOSE" connected, the valve off, and internal automatic power-off place
 The BK & RD output the off signal, the valve remains in the fully closed state

R612



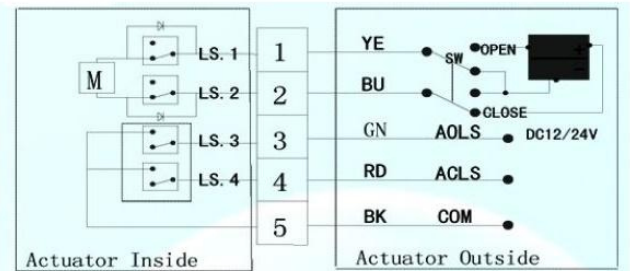
"SW" and "OPEN" connected, the valve open, the internal automatic power-off place
 The YE&GN output the open signal, the valve remains in the fully open state.
 "SW" and "CLOSE" connected, the valve off, and internal automatic power-off place
 The YE & RD output the off signal, the valve remains in the fully closed state

R513



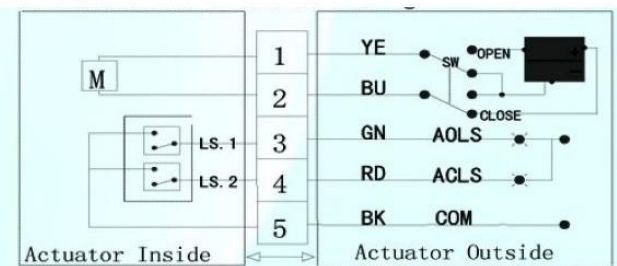
"SW" and "OPEN" connected, the valve open, the internal automatic power-off place
 The YE&GN output the open signal, the valve remains in the fully open state.
 "SW" and "CLOSE" connected, the valve off, and internal automatic power-off place
 The YE & RD output the off signal, the valve remains in the fully closed state

R514



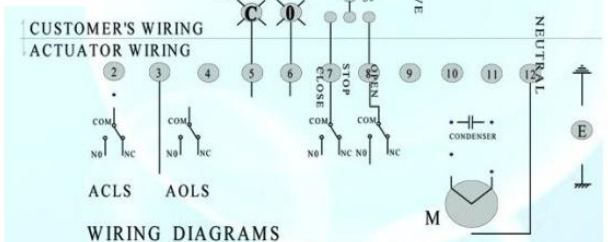
"SW" and "OPEN" connected, the valve open, place internal LS.1 disconnect
 Ls.3 conduct, BK&GN output signal to open in place, the valve maintain to the fully open state.
 "SW" and "CLOSE" connected, the valve off, place internal LS.2 disconnect
 Ls.4 through conduction, BK&RD output signal off place, the valve maintain to the fully closed state

R515



"SW" and "OPEN" connected, the valve open, place internal LS.1 conduct, Controller power-off when it detected "AOLS" the valve maintain to the fully open state.
 SW and "CLOSE" connected, the valve close, place internal LS.2 conduct, Controller power-off when it detected "ACLS" the valve maintain to the fully close state.

R716



"SW" and "OPEN" connected, the valve open, and internal automatic power-off is in place, terminals 2 and 4 output passive open signal, terminal 6 and 12 output active open signal, the valve remains in the fully open state.
 "SW" and "CLOSE" connected, the valve off, and internal automatic power-off is in place, terminals 2 and 3 output passive close signal, terminal 5 and 12 output active off signal, the valve remains in the fully closed state.

Model: VCPRxxx-1002, -1010

SPECIFICATIONS

VCP-1002

VCP-1010

The use specification of valve electric appliance

Model: VCPRxxx-1002, -1010

Welcome to choosing our products of industrial class actuators, the following is the introduction of our industrial class actuators.

I. (Summary)

Series VCP-1002 and VCP-1010

actuators with its smart design, wonderful shape, suitable for many kinds of valves. It has proved its superior quality for its stable nature, and good quality. This actuators are return type and suitable to DC or AC (will be set in the factory), can be controlled by outside cut off. This actuator run low cost and does not need to maintain.

- ◆ DC or AC (should be set in the factory), control mode is flexible, convenience to microprocessor and realize the automated control by PLC.
- ◆ Manual/electrically operated integrated design, Simply to operate.
- ◆ Large output torque, inner overheated protective device, works stable and reliable.
- ◆ Low noise, good lead-proof. Through the coupling, the carriage with the valve to be connected, easy to install and operate.

Caution

To be safely and long-term use of this device, please read carefully this instruction before installation.

Attention: the specification and application method should be explicit, to avoid device damage and body injury.

To indicate the dangerous and damage, it shows as “warning” and “notice”

“**warning**” : if do not comply with this content, may cause human dead or heavy wound.

“**notice**” : if do not comply with this content, may cause human light wound or device damage.

. Warning

- ◆ The common product could not be installed in the room full of explosive air unless explosion-proof product.
- ◆ When power on, can not disassemble the actuator and the valve.
- ◆ When power on, cannot make the wiring project.

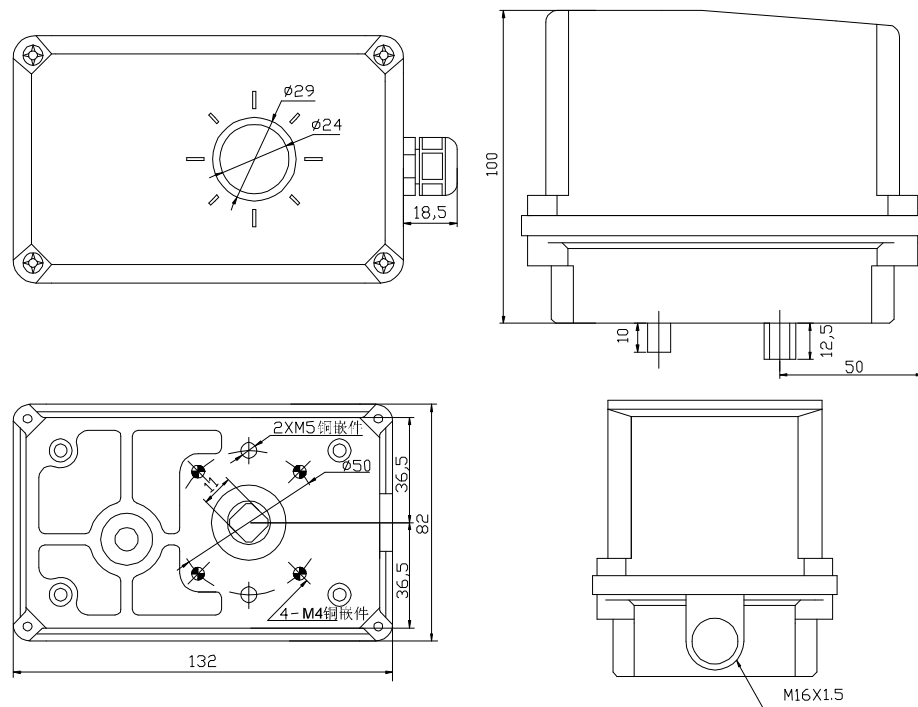
Notice

Model: VCPRxxx-1002, -1010

- ◆ Prohibit strictly drops the product, but to the product impact, this causes the movement bad
- ◆ Prohibit strictly steps the product, this causes the actuator breakdown or the human falls down the accident
- ◆ The rainy day or has the water splash condition, forbids to make the wiring project

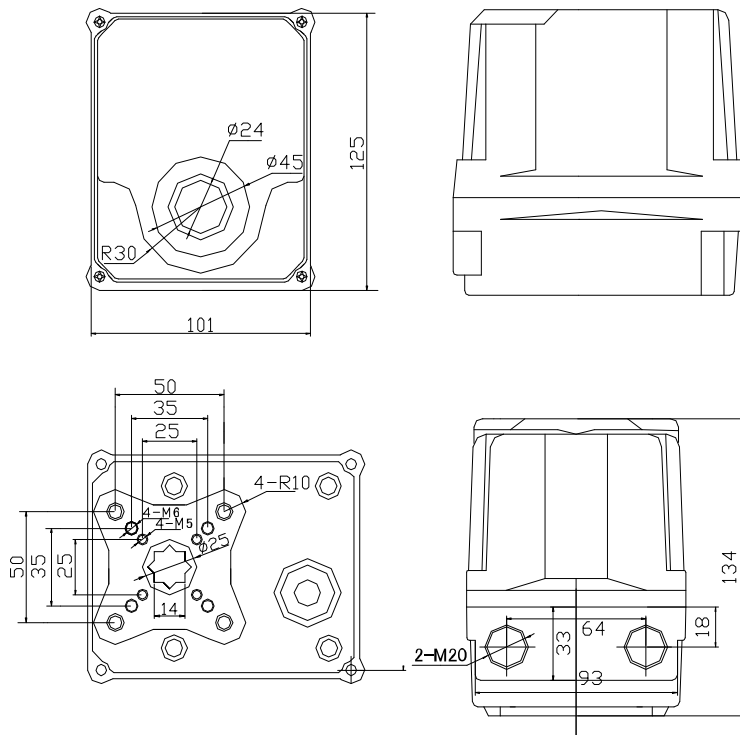
II. Appearance drawing

VCP-1002 Appearance drawing



Model: VCPRxxx-1002, -1010

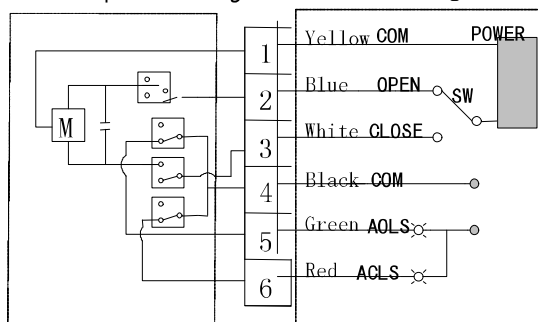
VCP-1010 Appearance drawing



III. Wiring project

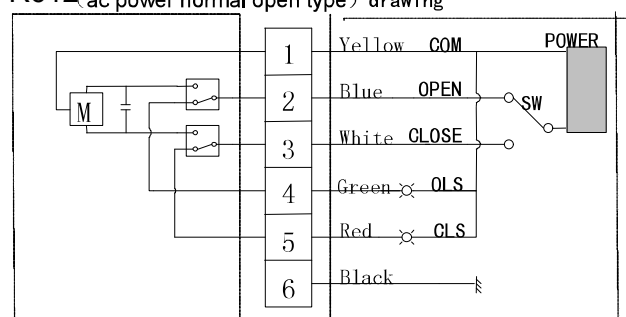
- ◆ Wiring project should be made by the qualified engineer according to electric equipment and technology standard.
- ◆ Rainy weather and/or high temperature do not wire the project.
- ◆ Before make wiring project, please read the wiring diagram, do not wire at own willing

R611 (ac power with signal feedback) Drawing AC220V



☐ VCP-1002 ☐ VCP-1010

R612 (ac power normal open type) drawing AC220V



☐ VCP-1002 ☐ VCP-1010

:

Model: VCPRxxx-1002, -1010

R611 wiring diagram (ac passive contact type)

(1,yellow wire.2,blue wire.3,white wire.4,black wire.5,green wire.6,red wire)

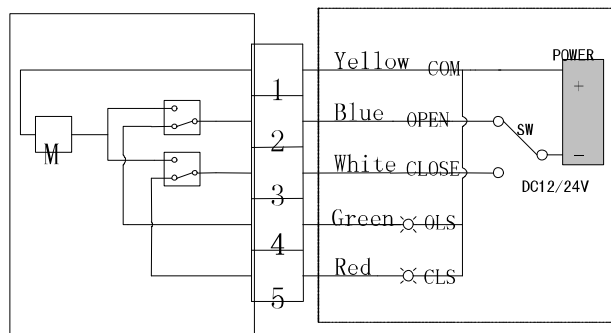
1. Connecting SW and OPEN, the valve opens, getting the position, internal cut off the power automatically, Black and green wires output the open signal, the valve remains fully open position.
2. Connecting SW and CLOSE, the valve closes, getting the position, internal cut off the power automatically, Black and red wires output the close signal, the valve remains fully close position.

R612 wiring diagram (ac active contact type)

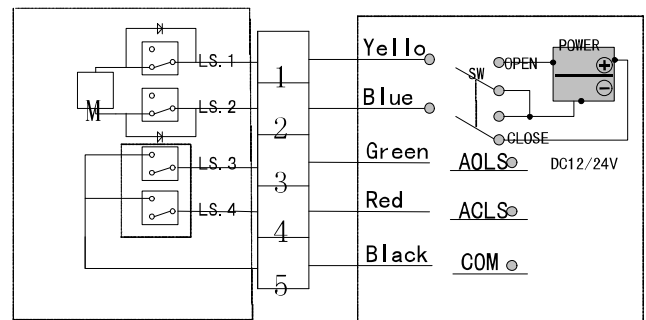
(1,yellow wire.2,blue wire.3,white wire.4,green wire.5,red wire.6,black wire)

1. Connecting SW and OPEN, the valve opens, getting the position, internal cut off the power automatically, Yellow and green wires output the open signal when the valve fully open. The valve remains fully open position.
2. Connecting SW and CLOSE, the valve closes, getting the position, internal cut off the power automatically, Yellow and red wires output the close signal when the valve fully close. The valve remains fully close position.

R513 (DC Power Normal Open) Drawing



R514 (DC Power Singal Feedback)



Suitable for:

☐ VCP-1010

POWER: ☐ DC12V ☐ DC24V

Suitable for:

☐ VCP-1010

POWER: ☐ DC12V ☐ DC24V

R513 wiring diagram (dc active contact type)

(1,yellow wire.2,blue wire.3,white wire.4,green wire.5,red wire)

1. Connecting SW and OPEN, the valve opens, getting the position, internal cut off the power automatically, Yellow and green wires output open signal when the valve fully open. The valve remains fully open position.
2. Connecting SW and CLOSE, the valve closes, getting the position, internal cut off the power automatically, Yellow and red wires output close signal when the valve fully close. The valve remains fully close position.

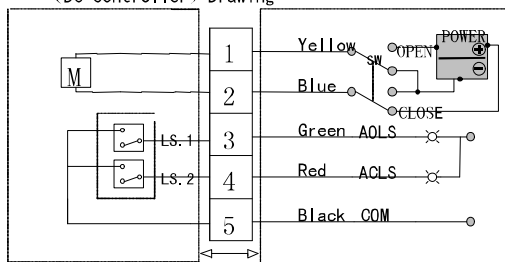
Model: VCPRxxx-1002, -1010

R514 wiring diagram (dc passive contact type)

(1,yellow wire.2,blue wire.3, green wire.4,red wire.5,black wire)

1. Connecting SW and OPEN, the valve opens, getting the position, LS.1 cut off, LS.3 connected, black and green wires output open signal, the valve remains wholly open position.
2. Connecting SW and CLOSE, the valve closes, getting the position, LS.2 cut off, LS.4 connected, black and Red wires output close signal, the valve remains wholly close position.

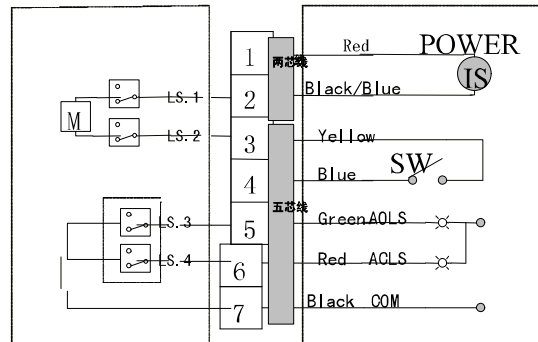
R515 (DC Controller) Drawing



☐ VCP-1010

POWER: ☐ DC12V ☐ DC24V

R716 Wiring



☐ VCP-1010

POWER: ☐ DC12V ☐ DC24V ☐ AC220V

R515 Wiring diagram (dc micro control unit type)

(1,yellow wire.2,blue wire.3,green wire.4,red wire.5,black wire)

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, meanwhile power off automatically.
2. Connecting SW and CLOSE, the valve close, getting the position, LS.2 connection, the controller tested and find the signal of ACLS, the valve remains fully close position, meanwhile power off automatically.

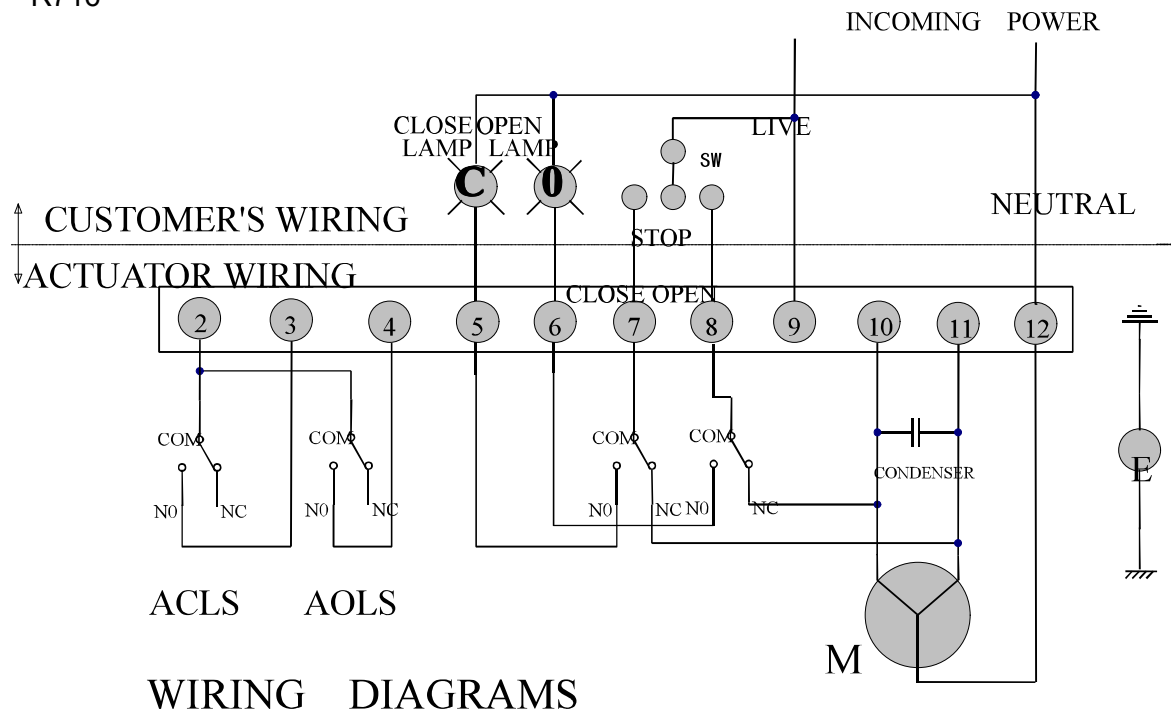
R716 wiring diagram

(1,red wire.2,black/blue wire.3,yellow wire.4,blue wire.5,green wire.6,red wire.7,black wire)

1. SW close, the valve opens, getting the position, internal cut off power automatically, green wire and Black wire output passive open signal.
2. SW separate, the valve close, getting the position, internal cut off power automatically, red wire and Black wire output passive close signal.

Model: VCPRxxx-1002, -1010

R716



WIRING DIAGRAMS

□ VCP-1010

1. Connecting SW and OPEN, the valve opens, getting the position, internal power off automatically, Terminal 2 and 4 output passive open signal, terminal 6 and 12 output active open signal, the valve remains Wholly open position.
2. Connecting SW and CLOSE, the valve close, getting the position, internal power off automatically, Terminal 2 and 3 output passive close signal, terminal 5 and 12 output active signal, the valve remains Wholly close position.

IV. Noted items of installation

- ◆ Please do not collide when installation.
- ◆ Please confirm the input power
- ◆ Please check the wiring contact whether it is correct, terminal block screws whether locked well, before electrifying.
- ◆ Forbids with other product power source control wiring series or parallel. (If must be parallel, the connection has plan showing in addition).
- ◆ The manual operation is banned during electrification.
- ◆ When installs the tubing, the sundry goods must be eliminated in order to avoid has the valve chest to suffer injury only.

V. Notice

Model: VCPRxxx-1002, -1010

- ✧ Please be far away from the gas or chemical material, in order to avoid the danger
- ✧ When uses the manual operation or the overhaul, please first switch off the power source, in order to avoid the danger
- ✧ After the wiring project completes, inspects the waterproofing (O ring) to install whether to fall off, then locked outer covering, to avoid receives the dust or rain water permeating.
- ✧ Please do not install in the perfect vacuum space directly.
- ✧ When the electrically operated actuator needs two above synchronizations open or close, please independent wiring, do not control wiring series or parallel, because the capacitor will disturb mutually, please install the relay, will control separately.
- ✧ When use the manual operation suggested that the spanner (the 8mm aperture) the length cannot surpass 10 centimeters, when use the manual coupling of the VCPR, must cut off the power. After the manual coupling enters the hexagonal head wrench, upward pushes, about back and forth moves, toward counterclockwise is the pass, toward to open right, after the circular telegram, automatic reset.
- ✧ When valve chest locking cannot use the manual part, and can not use the strength hard extension, avoids the internal part damage.
- ✧ When Uses manual function please note the Windows indicator not to be possible to surpass outside the scale range, to avoid the internal part damage.
- ✧ The motorized valve switch gap one time is 3 minutes (special second number by movements not to limit in this).

VI. Other introductions

- ◆ Please do not reverse instantaneously to avoid the mechanical logical circuit breakdown.
- ◆ AC Voltage: motor with overheated protective device. (If there is foreign matter jamming in the valve, The machinery does not damage, and the motor does not damage).
- ◆ Indicator shows the condition of valve, 0=open, S= close

VII. Special instruction

- The manual operation is forbidden while contacting.
- If installed at certain place having water or dust or the corrosive medium or splashed material, operator is supposed to install the protection cover additionally for covering complete-machine safely.
- Please installing protection cover above complete-machine (Notes: the shining of sunshine outdoor would lead to high-temperature which accelerates ageing of components, even losing effectiveness; The rain would accelerate aging of rubber-pad.)

Model: VCPRxxx-1002, -1010

- This product has pass completely-test and checkout conducted before ex-factory. The user may operate directly. Before the installment, please electrifying the operated actuator, to observe it whether normally.
- Please read the manual carefully before installation, check whether the qualified certificate, bar code and manual are enclosed, be sure installing correct according to the manual. If have the quality problem in the warranty period, fast relates with this company, without this company agreed that do not break a seal arbitrarily to service. Otherwise the company is generally irresponsible to the product quality.
- The unusual installment, use, wiring error, cause the product quality have the problem not to belong to the maintain scope, the maintenance cost occurring undertakes voluntarily by the user.

☆ Pipeline attention

When the pipeline installment tightens, please note the outer diameter of big end of the valve, maintains at with the spanner control the original spot, to avoid the valve body friction ball when the pipeline tightens because of synchronized revolving to be closed passes tightly, causing the valve operation not to be smooth.

VIII. informs you excellency:

The company electric operated valve product type is many, and improvement for the product function unceasingly, promotes the new product, this company retains to the instruction booklet change right. If has the change, No further notice.

The correlation technique question or has the special request, please relate with Our company.