

A TYPE
position indicator □



manual override



C TYPEposition indicator **☑**manual override □

TFA20 Series 2 way Brass Electric Ball Valve TFA20系列两通黄铜电动球阀(Low Voltage)

Nice appearance/Small size Large output torque/Sealed without dripping

COMPOSITIONS组成 🔊

NO.	Name	Material	Specification	Quantity
	Actuator	PPO		
	Body & Cover	Brass		
	O-ring	FKM		
	Sealing	PTFE		
	Ball	stainless steel	304	
	Stem	Brass		
	O-ring	FKM		



CR501 、CR502 、CR701 、CR702 、CR703 、CR705 、CR706 (Optional)





nergy saving/environmental protection/comfort/healtl

TFA20 Series 2 way Brass Eletric Ball VIve TFA20系列两通黄铜电动球阀(AC110-230V)

Nice appearance/Small size
Large output torque/Sealed without dripping

COMPOSITIONS组成 💣

Name	Material	Specification	Quantity
Actuator	PPO		
Body & Cover			
O-ring	FKM		
Sealing	PTFE		
Ball	Stainless Steel	304	
Stem			
O-ring	FKM		



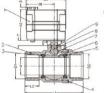


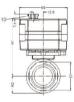


nergy saving/environmental protection/comfort/healt



2-Way Brass Electric Ball Valve 110-230V





DESCRIPTION	D1/D2	d	L1	L2	E1	H1	H2
TF8(1/4")Electric valve	1/4"	8	49	12	20.5	58.5	12
TF10(3/8")Electric valve	3/8"	10	49	12	20.5	68.5	12
TF15(1/2")Electric valve	1/2"	15	56	13	25	71	16
TF20(3/4")Electric valve	3/4"	20	66	15	31	74	19
TF25(1")Electric valve	1"	24	71	15	38	76	22
TF32(1 1/4")Electric valve	1 1/4"	29	79	20	46	78	25

Product size口径	NPT/BSP 1/4" 3/8" 1/2" 3/4" 1" 11/4" (Optional)
Maximum working pressure最大工作压力	1.0 MPa
Circulation medium介质	Fluid, air
Working voltage额定电压	DC5V 、DC12V 、DC24V 、 AC/DC9- 24V (Optional)
Wiring diagram接线图	CR201 、CR202 、CR301 、CR302 、CR303 、CR304 、CR305 、CR306 、

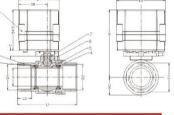
Working current 工作电流	≤500mA
Open/close time开关时间	≤5S
Life time寿命	100000 times(testing pressure is 0.4MPa,medium is water)
Valve body material阀材质	Brass
Actuator material执行器材质	Engineering Plastics

Sealing material密封材料	FKM &PTFE	
Actuator rotation执行器旋转角度	90°	
Torque force扭力	2 Nm	
Cable length线长	0.5m,1.5m (Optional)	
Environment temperature 环境温度	-15°C ~ 50°C	

Liquid temperature液体温度	2°C~ 90°C
Manual override手动功能	Yes No(Optional)
Open/close indicator开关指示	Yes No(Optional)
Protection class 保护等级	IP67



DESCRIPTION	D1/D2	d	L1	L2	E1	H1	H2
TF8(1/4")Electric valve	1/4"	8	49	12	20.5	80.5	12
TF10(3/8")Electric valve	3/8"	10	49	12	20.5	80.5	12
TF15(1/2")Electric valve	1/2"	15	56	13	25	84	16
TF20(3/4")Electric valve	3/4"	20	66	15	31	87	19
TF25(1")Electric valve	1"	24	71	15	38	89	22
TF32(1 1/4")Electric valve	11/4"	29	79	20	46	91	25



Product size口径	NPT/BSP 1/4" 3/8" 1/2" 3/4" 1" 1 1/4" (Optional)
Maximum pressure最大工作压力	1.0 MPa
Circulation medium介质	Fluid, air
Working voltage额定电压	AC/DC110-230V
Wiring diagram接线图	CR202、CR303、CR305、CR306、CR401、CR502
Willing diagramite线图	CR703、CR704、CR705、CR706 (Optional)

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pen/close time开关时间	≤5 S
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Actuator material执行器材质	Engineering Plastics

Sealing material密封材料	FKM& PTFE	
Actuator rotation执行器旋转角度	90°	
Torque force扭力	2 Nm	
Cable length线长	0.5m,1.5m (Optional)	
Environment temperature环境温度	-15°C~50°C	

Liquid temperature液体温度	2°C~90°C
Manual override手动功能	No
Open/close indicator开关指示	Yes
Protection class保护等级	IP67

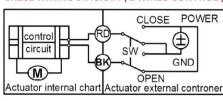


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CR201接线图

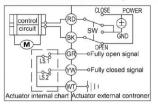
CR301接线图

CR201 WIRING DIAGRAM (2 WIRES CONTROL)



- VALVE OPEN: Black wire connect to Positive and Red wire connect to Negative, valve Open.
- VALVE CLOSE: Black wire connects to Negative and Red wire connects to Positive, valve Close.
- Remark: When valve fully open/close, power supply to motor will be cutoff automatically by limit switch inside.
- Suitable Working Voltage: DC5V/DC12V/DC24V.

CR501 WIRING DIAGRAM (WITH FEEDBACK SIGNAL)

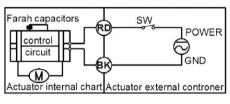


- VALVE OPEN: Black wire connect to Positive and Red wire connect to negative, valve Open.
- · VALVE CLOSE: Black wire connects to negative and Red wire connects to Positive, valve Close

When valve fully open, White and Blue wire get through When valve fully close, White and Yellow wire get through

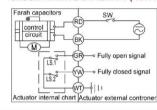
- Remark: When valve fully open/close, power supply to motor will be cut off automatically by limit switch inside.
- Suitable Working Voltage: DC5V, DC12V, DC24V.

CR202 WIRING DIAGRAM (2 WIRES CONTROL-SPRING RETURN IN CASE OF THE POWER IS FAILURE)



- VALVE OPEN: Black wire connect to Negative and Red wire connect to Positive, valve Open
- VALVE CLOSE: When Red wire disconnects to power/power failure, valve Close.
- · Remark: When VALVE fully open/close, power supply to motor will be cut off automatically by limit switch inside.
- Suitable Working Voltage: AC/DC9-24V, AC/DC110V-230V.

CR502 WIRING DIAGRAM (WITH FEEDBACK SIGNAL)

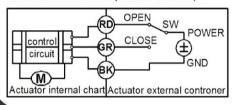


- · VALVE OPEN: Black wire connects to Negative and Red wire connect to Positive, valve
- VALVE CLOSE: When black or Red wire disconnect to power/power failure, valve Close automatically.

When valve fully open, White and Blue wire get through When valve fully close, White and Yellow wire get through

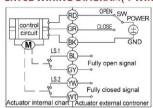
- Remark: When valve fully open/close, power supply to motor will be cut off automatically by limit switch inside.
- Suitable Working Voltage: AC/DC9-24V, AC/DC110V-230V,

CR301 WRING IAGRAM(3 WIRE CNTROL)



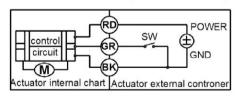
- VALVE OPEN: Black wire connect to Negative and Red wire connect to Positive, valve Open.
- VALVE CLOSE: Black wire connects to Negative and Green wire connects to Positive, valve Close.
- Remark: When valve fully open/close, power supply to motor will be cut off automatically by limit switch inside.
- Suitable Working Voltage: DC5V, DC12V, DC24V.

CR702 WIRING DIAGRAM(7 WIRES CONTROL WITH FEEDBACK SIGNAL)



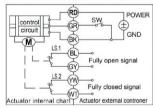
- . VALVE OPEN: Black wire connects to Negative and Red wire connect to Positive, valve Open.
- . VALVE CLOSE: Black wire connects to Negative and Green wire connects to positive, valve Close. When valve fully open, Blue and Gray wire get through When valve fully close, White and Yellow wire get through
- . Remark: When valve fully open/close, power supply to motor will be cut off automatically by limit switch inside
- -Suitable Working Voltage: DC5V, DC12V, DC24V.

CR302 WIRING DIAGRAM (3 WIRES CONTROL)



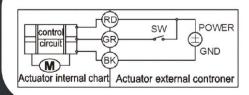
- VALVE OPEN: Black wire connect to Negative and Red wire connect to Positive, meanwhile Green wire connects to Negative, valve Open.
- · VALVE CLOSE: Black wire connect to Negative and Red wire connect to Positive, meanwhile Green wire disconnected, valve Close.
- Remark: When valve fully open/close, power supply to motor will be cut off automatically by limit switch inside.
- Suitable Working Voltage: DC9-24V.

CR701 WIRING DIAGRAM(7 WIRES CONTROL WITH FEEDBACK SIGNAL)



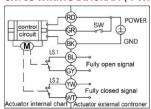
- · VALVE OPEN: Black wire connects to Negative and Red wire connects to Positive. meanwhile Green wire connects to Negative, valve open.
- · VALVE CLOSE: Black wire connects to Negative and Red wire connects to Positive, meanwhile Green wire disconnected, valve Close, When valve fully open, Blue and Gray wire get through When valve fully close, White and Yellow wire get through
- · Remark: When VALVE fully open/close, power supply to motor will be cut off automatically by limit switch inside.
- Suitable Working Voltage: DC9-24V.

CR303 WIRING DIAGRAM (3 WIRES CONTROL)



- · VALVE OPEN: Black wire connect to Negative and Red wire connect to Positive, meanwhile Green wire connects to Positive, valve Open.
- · VALVE CLOSE: Black wire connect to Negative and Red wire connect to Positive, meanwhile Green wire disconnected, valve Close.
- · Remark: When valve fully open/close, power supply to motor will be cut off automatically by limit switch inside.
- Suitable Working Voltage: AC/DC9-24V, AC110-230V.

CR703 WIRING DIAGRAM (7 WIRES CONTROL WITH FEEDBACK SIGNAL)



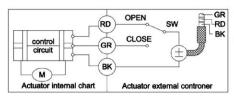
- . VALVE OPEN: Black wire connect to Negative and Red wire connect to Positive, meanwhile Green wire connects to Positive, valve Open.
- . VALVE CLOSE: Black wire connect to Negative and Red wire connect to Positive, meanwhile Green wire disconnected, valve Close

When valve fully open, Blue and Gray wire get through When valve fully close, White and Yellow wire get through

- Remark: When valve fully open/close, power supply to motor will be cut off automatically by limit switch inside.
- Suitable Working Voltage: AC/DC9-24V, AC110-230V.

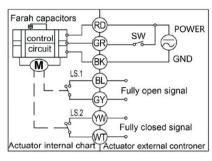
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CR304 WIRING DIAGRAM(3 WIRES CONTROL)



- VALVE OPEN: Black wire connect to Negative and Red wire connect to Positive, valve Open.
- · VALVE CLOSE: Black wire connects to Negative and Green wire connects to Positive, valve Close,
- Remark: When valve fully open/close, power supply to motor will be cut off automatically by limit switch inside.
- Suitable Working Voltage: DC5V, DC12V, DC24V.

CR705 WIRING DIAGRAM (TWIRES CONTROL - SPRING RETURN IN CASE OF THE POWER IS FAILURE)

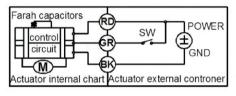


- VALVE OPEN: Black wire connect to Negative and Red wire connect toPositive, meanwhile Green wire connects to Positive, valve Open.
- · VALVE CLOSE: Black wire connect to Negative and Red wire connect to Positive, meanwhile Green wire disconnected, valve
- Power failure: The Valve CLOSE automatically if power failure.

When valve fully open, Blue and Gray wire get through When valve fully close, White and Yellow wire get through

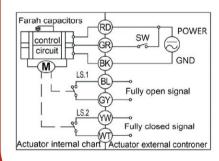
- Remark: When valve fully open/close, power supply to motor will be cut off automatically by limit switch inside.
- Suitable Working Voltage: AC/DC9-24V, AC/DC110V-230V.

CR305 WIRING DIAGRAM (3 WIRES CONTROL - SPRING RETURN IN CASE OF THE POWER IS FAILURE)



- VALVE OPEN: Black wire connect to Negative and Red wire connect to Positive, meanwhile Green wire connects to Positive, valve Open
- · VALVE CLOSE: Black wire connect to Negative and Red wire connect to Positive, meanwhile Green wire disconnected, valve Close.
- Power failure: The Valve CLOSE automatically if power failure.
- Remark: When valve fully open/close, power supply to motor will be cut off automatically by limit switch inside.
- Suitable Working Voltage: AC/DC9-24V, AC/DC110V-230V.

CR706 WIRING DIAGRAM (7 WIRES CONTROL - SPRING RETURN INC CASE OF THE POWER IS FAILURE)

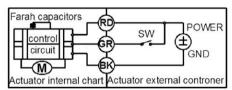


- · VALVE OPEN: Black wire connect to Negative and Red wire connect to Positive, meanwhile Green wire connects to Positive, valve Open.
- · VALVE CLOSE: Black wire connect to Negative and Red wire connect to Positive, meanwhile Green wire disconnected, valve Close
- Power failure: The Valve OPEN automatically if power failure.

When valve fully open, Blue and Gray wire get through When valve fully close, White and Yellow wire get through

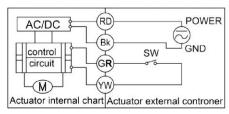
- Remark: When valve fully open/close, power supply to motor will be cut off automatically by limit switch inside.
- Suitable Working Voltage: AC/DC9-24V, AC/DC110V-230V.

CR306 WIRING DIAGRAM (3 WIRES CONTROL - SPRING RETURN IN CASE OF THE POWER IS FAILURE)



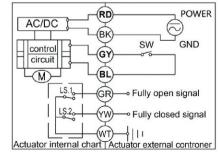
- VALVE OPEN: Black wire connect to Negative and Red wire connect to Positive, meanwhile Green wire connects to Positive, valve Open.
- VALVE CLOSE: Black wire connect to Negative and Red wire connect to Positive, meanwhile Green wire disconnected, valve Close.
- Power failure: The Valve OPEN automatically if power failure.
- Remark: When valve fully open/close, power supply to motor will be cut off automatically by limit switch inside.
- Suitable Working Voltage: AC/DC9-24V, AC/DC110V-230V.

CR401 WIRING DIAGRAM (4 WIRES CONTROL)



- · VALVE OPEN: Black wire connect to Negative and Red wire connect to Positive, meanwhile, White and Yellow wire connected, valve Open.
- · VALVE CLOSE: Black wire connect to Negative and Red wire connect to Positive, meanwhile, White and Yellow wire disconnected, valve Close.
- · Remark: When valve fully open/close, power supply to motor will be cut off automatically by limit switch inside.
 - Suitable Working Voltage: AC/DC110V-230V.

CR704 WIRING DIAGRAM(7 WIRES CONTROL WITH FEEDBACK SIGNAL)



- · VALVE OPEN: Black wire connects to Negative and Red wire connect to Positive, meanwhile, White and Yellow wire connected, valve Open.
- VALVE CLOSE: Black wire connect to Negative and Red wire connect to Positive, meanwhile White and Yellow wire disconnected valve Close.

When valve fully open, White and Green wire get through When valve fully close, White and Yellow wire get through

- Remark: When valve fully open/close, power supply to motor will be cut off automatically by limit switch inside.
- Suitable Working Voltage: AC/DC110V-230V.

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