

A20-T Series 2 way Brass Electric Ball Valve A20-T系列两通黄铜电动球阀



T20-B2-A



T20-B2-B

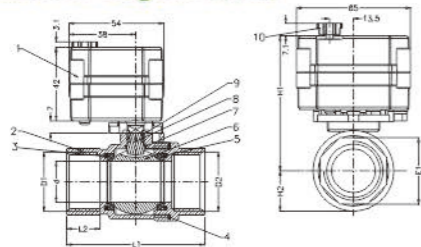


T20-B2-C

Technical Parameters 技术参数:

Product size 口径	NPT/BSP 1/4" 3/8" 1/2" 3/4" 1" 1 1/4" (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 CR501 CR502 CR701 CR702 CR703 CR705 CR706 (Optional)
Working current 工作电流	≤500mA
Open/close time 开关时间	≤5S
Life time 寿命	70000 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 N.m
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

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Body & Cover	Brass		1
3	O-ring	FKM		2
4	Sealing	PTFE		2
5	Ball	stainless steel	304	1
6	Stem	Brass		1
7	O-ring	FKM		2

DESCRIPTION	D1/D2	d	L1	L2	E1	H1	H2
T8(1/4")Electric valve	1/4"	8	49	12	20.5	68	12
T10(3/8")Electric valve	3/8"	10	49	12	20.5	68	12
T15(1/2")Electric valve	1/2"	15	56	12	25	71	16
T20(3/4")Electric valve	3/4"	20	66	15	31	74	19
T25(1")Electric valve	1"	24	71	15	38	76	22
T32(1 1/4")Electric valve	1 1/4"	25	79	18	46	78	25
T32(1 1/4")Electric valve	1 1/4"	29	80	15	46	93	27

A20-T Series 2 way Brass Electric Ball Valve(AC110-230V) A20-T系列两通黄铜电动球阀

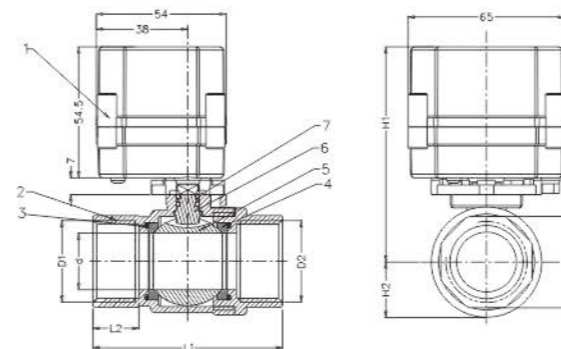
Technical Parameters 技术参数:

Product size 口径	NPT/BSP 1/4" 3/8" 1/2" 3/4" 1" 1 1/4" (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	AC/DC110-230V
Wiring diagram 接线图	CR202 CR303 CR305 CR306 CR401 CR502 CR703 CR704 CR705 CR706(Optional)
Working current 工作电流	≤500mA
Open/close time 开关时间	≤5S
Life time 寿命	70000 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 N.m
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
Protection class 保护等级	IP67



T20-B2-C

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Body & Cover	Brass		1
3	O-ring	FKM		2
4	Sealing	PTFE		2
5	Ball	Stainless Steel	304	1
6	Stem	Brass		1
7	O-ring	FKM		2

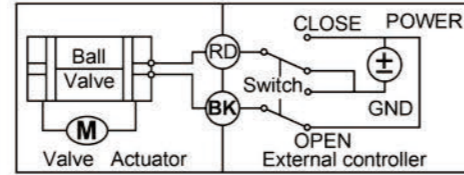
DESCRIPTION	D1/D2	d	L1	L2	E1	H1	H2
T8(1/4")Electric valve	1/4"	8	49	12	20.5	80.5	12
T10(3/8")Electric valve	3/8"	10	49	12	20.5	80.5	12
T15(1/2")Electric valve	1/2"	15	56	12	25	84	16
T20(3/4")Electric valve	3/4"	20	66	15	31	87	19
T25(1")Electric valve	1"	24	71	15	38	89	22
T32(1 1/4")Electric valve	1 1/4"	25	79	18	46	91	25
T32(1 1/4")Electric valve	1 1/4"	29	80	15	46	105	27

本手册内容仅供参考, 不作为使用时的判定依据, 详细技术参数及印刷板图请登录我司网站查询: www.china-tonhe.com

Wiring Diagram

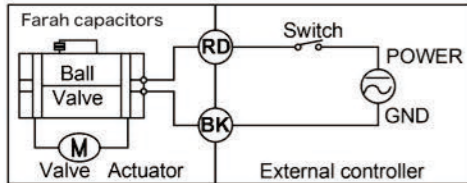
■ CR201 Wiring Diagram (2 wires control)

·RD connect with positive, the BK connect with negative, the valve closed, the actuator automatically power off after in place , the valve remains fully closed position
 ·BK connect with positive, the RD connect with negative, the valve open, the actuator automatically power off after in place, the valve remains fully open position
 • Suitable Working Voltage: DC5V,DC12V,DC24V
 • Exceeding the working voltage is forbidden



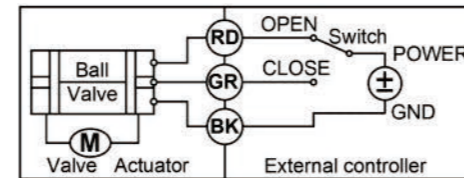
■ CR202 Wiring Diagram (2 wires control – Capacitors return in case of the power is failure)

·When SW is closed , the valve OPEN. the actuator automatically power off after in place
 ·When SW is open, the valve CLOSED, the actuator automatically power off after in place
 • Suitable Working Voltage: AC/DC9-24V AC110-230V
 • Exceeding the working voltage is forbidden



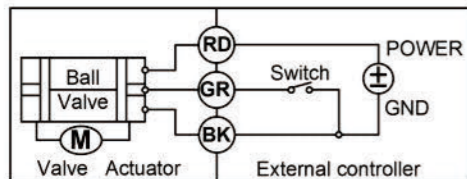
■ CR301 Wiring Diagram (3 wires control)

·RD & GR connect with positive, BK connect with negative
 ·When OPEN(RD) & SW connected , the valve OPEN, the actuator automatically power off after in place , valve remains fully open position
 ·When CLOSE(GR) & SW connected, the valve CLOSED, the actuator automatically power off after in place, valve remains fully closed position
 • Suitable Working Voltage: DC5V,DC12V,DC24V,AC/DC9-24V
 • Exceeding the working voltage is forbidden



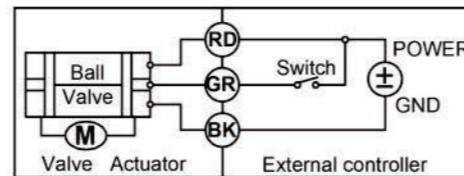
■ CR302 Wiring Diagram (3 wires control)

·RD connect with positive, the BK & GR connect with negative
 ·SW CLOSED, the valve OPEN, the actuator automatically power off after in place
 ·SW OPEN, the valve CLOSED, the actuator automatically power off after in place
 • Suitable Working Voltage: DC9-24V
 • Exceeding the working voltage is forbidden



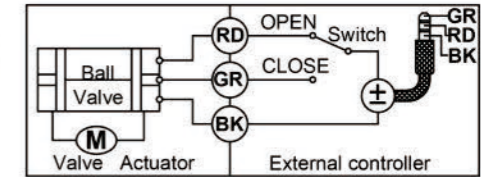
■ CR303 Wiring Diagram (3 wires control)

·RD& GR connect with positive, the BK connect with negative
 ·SW CLOSED, the valve OPEN, the actuator automatically power off after in place
 ·SW OPEN, the valve CLOSED, the actuator automatically power off after in place
 • Suitable Working Voltage: AC/DC9-24V,AC110-230V
 • Exceeding the working voltage is forbidden



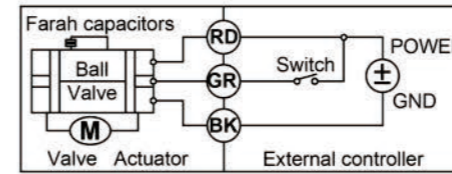
■ CR304 Wiring Diagram (3 wires control)

·RD & GR connected with positive, and the BK connected with negative
 ·When RD & SW connected, the valve closed, the actuator automatically power off after in place , remains fully closed position
 ·When GR & SW connected, the valve open, the actuator automatically power off after in place , remains fully open position
 • Suitable Working Voltage: DC5V,DC12V, DC9-24V
 • Exceeding the working voltage is forbidden



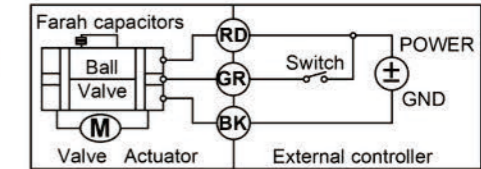
■ CR305 Wiring Diagram (3 wires control – Capacitors return incase of the power is failure)

·RD& GR connect with positive, the BK connect with negative
 ·SW CLOSED, the valve OPEN, the actuator automatically power off after in place
 ·SW OPEN, the valve CLOSED, the actuator automatically power off after in place
 When external power off, the valve CLOSED, the actuator automatically power off after in place
 • Suitable Working Voltage: AC/DC9-24V,AC110-230V
 • Exceeding the working voltage is forbidden



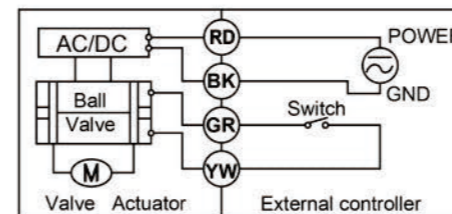
■ CR306 Wiring Diagram (3 wires control – Capacitors return in case of the power is failure)

·RD& GR connect with positive, the BK connect with negative
 ·SW CLOSED, the valve OPEN, the actuator automatically power off after in place
 ·SW OPEN, the valve CLOSED, the actuator automatically power off after in place
 When external power off, the valve OPEN, the actuator automatically power off after in place
 • Suitable Working Voltage: AC/DC9-24V,AC110-230V
 • Exceeding the working voltage is forbidden



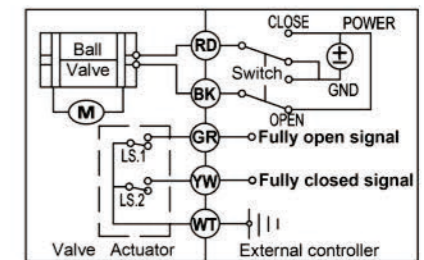
■ CR401 Wiring Diagram (4 wires control)

·RD & BK are connected to the power, GR & YW are connected to the controlled wiring
 ·When the SW is closed , the valve open
 ·When the SW is OPEN , the valve CLOSED Suitable Working Voltage:AC/DC110V-230V
 Exceeding the working voltage is forbidden
 The control wiring with power DC5V , when multiple motorized valves are working in parallel , must put the same color control wiring together, otherwise the valve could working normally



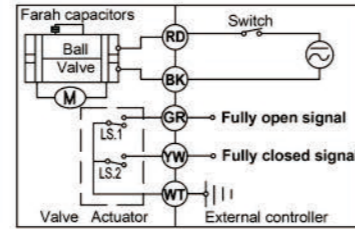
■ CR501 Wiring Diagram (5 wires control with feedback signal)

·RD connect with positive, the BK connect with negative, the valve closed, the actuator automatically power off after in place
 ·BK connect with positive, the RD connect with negative, the valve open, the actuator automatically power off after in place
 ·GR & WT connect with the valve's fully open signal wiring
 ·YW & WT connect with the valve's fully closed signal wiring
 Suitable Working Voltage:DC5V,DC12V,DC24V
 Exceeding the working voltage is forbidden



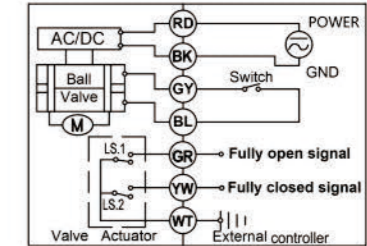
■ CR502 Wiring Diagram (5 wires control - Capacitors return in case of the power is failure & feedback signal)

- When SW is closed , the valve OPEN. the actuator automatically power off after in place
- When SW is open, the valve CLOSED, the actuator automatically power off after in place
- GR & WT connect with the valve's fully open signal wiring
- YW & WT connect with the valve's fully closed signal wiring
- Suitable Working Voltage: AC/DC9-24V, AC/DC110V-230V
- Exceeding the working voltage is forbidden



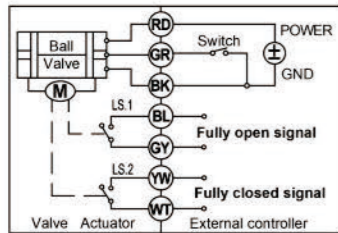
■ CR704 Wiring Diagram (7 wires control with feedback signal)

- RD & BK are connected to the power, BL & GY are connected to the controlled wiring
- When the SW is closed , the valve open
- When the SW is open , the valve closed
- GR & WT connect with the valve's fully OPEN signal wiring
- YW & WT connect with the valve's fully CLOSED signal wiring
- Suitable Working Voltage: AC/DC110V-230V
- Exceeding the working voltage is forbidden



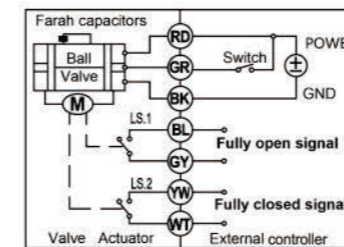
■ CR701 Wiring Diagram (7 wires control with feedback signal)

- RD connect with positive
- GR connect with SW and negative wiring
- BK connect with negative wiring
- When SW close. the valve OPEN, and keeping fully open
- When SW open. the valve CLOSED, and keeping fully closed
- BL & GY connect with the valve's fully open signal wiring
- YW & WT connect with the valve's fully closed signal wiring
- Suitable Working Voltage: DC9-24V
- Exceeding the working voltage is forbidden
- Feedback with load ability:
 - ① The Max. off voltage: DC36V AC220V
 - ② The Max. off current: ≤0.4A



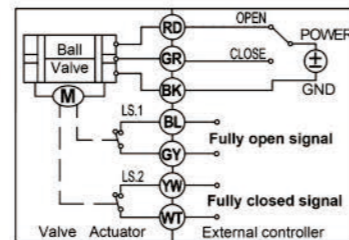
■ CR705 Wiring Diagram (7 wires control - Capacitors return in case of the power is failure & feedback signal)

- RD & GR connect with positive, the BK connect with negative
- SW CLOSED, the valve OPEN, the actuator automatically power off after in place
- SW OPEN, the valve CLOSED, the actuator automatically power off after in place
- When external power off, the valve closed, the actuator automatically power off after in place
- BL & GY connect with the valve's fully open signal wiring
- YW & WT connect with the valve's fully closed signal wiring
- Suitable Working Voltage: AC/DC9-24V, AC110-230V
- Exceeding the working voltage is forbidden



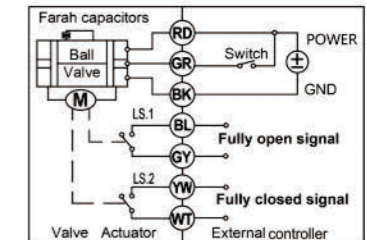
■ CR702 Wiring Diagram (7 wires control with feedback signal)

- RD & GR connect with positive, the BK connect with negative
- When RD & SW connected, the valve OPEN, the actuator automatically power off after the valve fully open
- When GR & SW connected, the valve CLOSED, the actuator automatically power off after the valve fully closed
- BL & GY connect with the valve's fully open signal wiring
- YW & WT connect with the valve's fully closed signal wiring
- Suitable Working Voltage: DC5V, DC12V, DC24V
- Exceeding the working voltage is forbidden
- Feedback with load ability:
 - ① The Max. off voltage: DC36V AC220V
 - ② The Max. off current: ≤0.4A



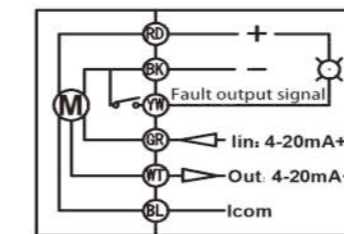
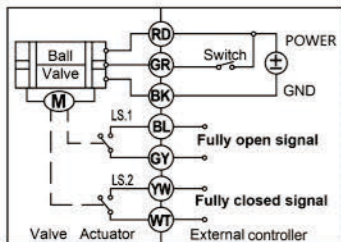
■ CR706 Wiring Diagram (7 wires control - Capacitors return in case of the power is failure & feedback signal)

- RD & GR connect with positive, the BK connect with negative
- SW CLOSED, the valve OPEN, the actuator automatically power off after in place
- SW OPEN, the valve CLOSED, the actuator automatically power off after in place
- When external power off, the valve open, the actuator automatically power off after in place
- BL & GY connect with the valve's fully open signal wiring
- YW & WT connect with the valve's fully closed signal wiring
- Suitable Working Voltage: AC/DC9-24V, AC110-230V
- Exceeding the working voltage is forbidden



■ CR703 Wiring Diagram (7 wires control with feedback signal)

- RD & GR connect with positive, the BK connect with negative
- SW CLOSED, the valve OPEN, the actuator automatically power off after in place
- SW OPEN, the valve CLOSED, the actuator automatically power off after in place
- BL & GY connect with the valve's fully open signal wiring
- YW & WT connect with the valve's fully closed signal wiring
- Suitable Working Voltage: AC/DC9-24V, AC110-230V
- Exceeding the working voltage is forbidden



■ A150 SERIES MODULATING VALVE WIRE DIAGRAM

- 1, 红线接正极, 黑线接负极.
 - 2, 绿线接4-20mA/0-10V/0-5V信号输出正极, 蓝色接信号输入负极. 黄线接错误输出.
 - 3, 黄线是错误输出信号, 错误时黄线和红线断开; 白线是4-20mA输出.
- 1, RD connect +, BK-
- 2, GR connect output signal +(4-20mA, 0-5V, 0-10V), BL connect input signal-
- 3, YW connect err output signal. YW & RD are disconnected when there is err. WT connect 4-20mA output.