

全球销售网



台州通禾流体控制股份有限公司

Taizhou Tonhe Flow Control Co.,Ltd.

地址:浙江省台州市黄岩区江口街道新顺中小企业创业园3号楼

Add:No.3 building, Xinsun SME pioneer park, Jiangkou street, Huangyan,

Taizhou city, 318020, Zhejiang, China

Tel:+86-576-81100233, 84297288

Fax:+86-576-81100232

M. P:+86-13566820056

Email:tonheflow@china-tonhe.com | tonhe@139.com

<http://www.china-tonhe.com> | <http://www.tonheflow.com>

TONHEFLOW®

CATALOGUE

2025通禾选型手册



台州通禾流体控制股份有限公司

Taizhou Tonhe Flow Control Co.,Ltd.

A20执行器型号识别 电动阀命名规则 手动功能使用说明	08
A20-T系列两通黄铜电动球阀	09/10
A20-T系列两通不锈钢电动球阀	11/12
A20-T系列两通UPVC电动球阀	13/14
A20-T系列三通不锈钢电动球阀	15/16
A20-T系列两通不锈钢外丝电动球阀	17
A20-T系列三通不锈钢外丝电动球阀	18
A20-T系列两通黄铜一内一外螺纹电动球阀	19
A20-T系列两通不锈钢一内一外螺纹电动球阀	20
A20-T系列两通不锈钢快装电动球阀	21
A20-T系列立式三通黄铜电动球阀	22
A20-S系列两通不锈钢时间控制阀说明书	23/24
A20-T系列卧式三通黄铜电动球阀	25
A20-M系列两通不锈钢比例调节阀	26
A20-T系列两通黄铜电动球阀配加高支架	27
A20-T 系列两通UPVC双由令电动球阀	28
A20-T系列两通不锈钢缩通径电动球阀	29
A100-T系列两通UPVC电动球阀	30
A100-T系列两通不锈钢电动球阀	31
A100-T系列三通不锈钢电动球阀	32
A100-T系列两通黄铜电动球阀	33
A150-T系列两通不锈钢三片式快装电动球阀	34
A150-T系列两通不锈钢电动球阀	35
A150-T系列三通不锈钢电动球阀	36
A150-T系列两通三片式不锈钢电动球阀	37
A150-T系列两通黄铜电动球阀	38
A150-T系列不锈钢电动蝶阀	39
A150-T系列两通不锈钢快装电动球阀	40
A150-M系列两通UPVC电动比例调节阀	41
A150-M系列两通不锈钢电动比例调节阀	42
A150-T系列三通UPVC电动球阀	43
A150-T系列三通不锈钢快装电动阀	44
B150-T系列快开高防护防潮开关型电动阀	45
A150-T系列两通UPVC电动球阀	46
A150-T系列UPVC电动法兰阀	47
A20-W系列防漏水控制器	48
A550系列不锈钢三通快装卫生级电动球阀	49
A550系列两通UPVC电动球阀	50
A550系列三通不锈钢电动球阀	51
A550系列两通三片式不锈钢电动球阀	52
A550系列不锈钢快装蝶阀	53
A550系列三通不锈钢快装电动球阀	54
A550系列不锈钢电动法兰阀	55
E20系列两通黄铜电池型电动球阀	56
E20系列两通不锈钢电池型电动球阀	57
E22系列两通黄铜外丝电池型电动球阀	58
E22系列两通不锈钢快装电池型电动球阀	59
线路图	60/66

2025--公司通过SGS ISO 14001：2015管理体系审核
 2024--获得台州市专精特新”小巨人”
 2023--E20电池型电动阀执行器、A550电动阀执行器上市
 获得三项国家发明专利
 2022--获得省级专精特新企业
 在欧盟成功注册”TONHEFLOW”和”TONHE”商标
 2021--2020-在美国成功注册”TONHEFLOW”和”TONHE”商标
 研发LoRa 4G NB 无线电动阀
 获得国家级高新企业
 研发A550 系列执行器
 2020--在苏州设立研发中心
 新办公楼投入使用
 2019--扩大生产规模，迁入自有厂房
 研发A150系列调节型电动执行器
 2018--“通禾”商标注册
 2017--扩大生产规模，迁入新厂房
 研发A150 系列电动执行器
 2016--获得浙江省高成长科技型中小企业
 研发A20系列调节型电动球阀
 2015--“TH, TONHEFLOW”通过商标注册
 获得浙江省科技型中小企业证书
 2014--获得台州市高新技术企业证书
 研发家庭防漏水控制器
 2013--公司通过SGS ISO 9001：2008管理体系审核
 2012--研发智能定时控制电动球阀
 2011--电动球阀通过欧盟CE认证
 2009--研发A20、A100系列开关型电动球阀
 台州通禾公司成立
 2008--研发A10系列电动阀

2025 - Passed the SGS ISO 14001: 2015 management system audit
 2024- Award Taizhou City's Specialized and New "Little Giant"
 2023- Launch E20 Battery series and A550 series motorized actuator
 Patented 3 national invention patents
 2022 - Provincial Specialized and New Enterprise
 Succesfully registered "TONHEFLOW" & "TONHE" trademarks in EU
 2021 - Succesfully registered "TONHEFLOW" & "TONHE" trademarks in USA
 R&D LoRa 4G NB wireless electric valve
 Adwarded National High-tech Enterprise
 R&D A350 series electric actuators
 2020 - Set up R&D center in Suzhou
 Moved into New office
 2019 - Expanded the production scale and moved into the self-owned plant
 R&D A150 series proportional electric actuators
 2018 - Registered "通禾" trademark
 2017 - Expanded the production scale and moved into a new plant
 R & D A150 series electric actuators
 2016 - Award Zhejiang Province High Growth and Technology SME certificate
 R & D A20 Series proportional motorized valve
 2015 - "TH, TONHEFLOW" is registered with the trademark
 Award Zhejiang Province Science and Technology SME certificate
 2014 - Award Taizhou High-tech Enterprise certificate
 R & D home water leaking detection controller
 2013 - Passed the SGS ISO 9001: 2008 management system audit
 2012 - R & D smart timer control electric ball valve
 2011 - electric ball valve approved the European Union CE certification
 2009 - R & D A20, A100 series electric on/off ball valve
 Taizhou Tonhe company was established
 2008 - R & D A10 series electric valve



台州通禾流体控制股份有限公司(TONHEFLOW)成立于2009年，是一家专注于智能流体控制技术研发与制造的国家高新技术企业。公司深耕微型电动阀、智能控制系统领域，产品广泛应用于医疗、水处理、农牧、新能源、汽车、清洁机器人、工业自动化等行业，是国内领先的定制化流体控制解决方案供应商。公司秉持“诚信共赢，服务客户，服务社会”的价值观，以“做好中国电动球阀”为己任，致力于让流体控制更智能可靠，通禾将持续聚焦技术创新与全球化布局，力求于成为全球智能流体控制领域的标杆企业。

产品与技术：通禾主要生产1/4"-2"开关型电动球阀、调节型电动球阀、智能电动阀、家庭用水防泄漏检测系统等系列产品。生产采用机械化流水线操作，严格把控产品质量，精益求精，追求卓越。产品结构紧凑、外形美观，具有智能控制、低工作电流、高密封性等特点。

企业荣誉与市场：凭借卓越的产品质量和创新能力，通禾先后获得多项荣誉与认证，获得国家专利20+项，在欧盟、美国、中日韩注册商标。多个系列产品已顺利通过NSF61-G、CE、WRAS等国际认证，远销世界各地，主要为欧美国家，深受客户信赖和好评。2013年通过了SGS公司的ISO9001：2015质量管理体系，前后被认定为浙江省科技型中小企业、浙江省高成长科技型中小企业，2021年认定为国家级高新技术企业，2022年认定为省级专精特新企业，2023年获得三项国家发明专利，2024年被认定为台州市专精特新“小巨人”，2025年通过SGS公司的ISO14001：2015环境管理体系。

发展愿景：通禾，致力于让流体控制更智能可靠为使命，矢志打造全球知名的电动阀品牌，缔造人们向往的企业大家庭，注重人才的引进、培养与开发，坚持标准化、人性化、科学化的管理理念，打造学习型团队，提升核心竞争力。每年选拔潜力员工培训、学习，实现共同成长，让企业成为所有员工共有的精神家园。征途漫漫，唯有奋斗。通禾将不断超越自我，与客户、人才共抓机遇，长期合作，共同成长，实现双赢。

Taizhou Tonhe Flow Control Co.,Ltd. (TONHEFLOW),a national high-tech enterprise founded in 2009,specializes in R&D and manufacturing of intelligent fluid control technology,focusing on micro electric valves and smart control systems.Its products serve industries as medical,water treatment,agriculture and animal husbandry,new energy,car,cleaing robots,and industrial automation,positioning it as China's top customized fluid control solutions provider.Upholding values of "integrity,win-win,customers service and social responsibility","making Chinese electric ball valves well",it committed to making fluid control more intelligent and reliable.Tonhe continues to innovation and global expansion,striving to become a global leader in intelligent fluid control.

Products & Technologies: Tonhe mainly produces 1/4"-2" on/off type electric ball valve,modulating type electric ball valve,intelligent electric valve,household water leakage detection system and other products.The production adopts mechanized assembly line operation,strictly controls product quality,strives for excellence and pursues excellence.The product has compact structure and beautiful appearance,and has the characteristics of intelligent control,low working current,high sealing,etc.

Corporate Honors and Market:With its excellent product quality and innovation,Tonhe holds 20+ national patents and registered trademarks in the EU,U.S.,China,Japan and South Korea.Its products comply with NSF61-G,CE,and WRAS certifications,exporting globally—primarily to Europe and America—earning widespread trust.Key milestones: ISO9001:2015 of SGS(2013),Zhejiang Province Technology SME and High-Growth Technology SME,National High-tech Enterprise(2021),Provincial Specialized and New Enterprise(2022),3 national invention patents(2023),Taizhou City's Specialized and New "Little Giant"(2024), ISO14001:2015 of SGS(2025).

Development Vision:With the mission of making fluid control more intelligent and reliable,we hammer at building a world-renowned electric valve brand,creating a corporate family that people yearn for,focusing on the introduction,training and development of talents,adhering to standardized,humanized and scientific management concepts,building a learning team and enhancing core competitiveness.Every year,we select potential employees for training to achieve common growth and make the company a spiritual home shared by all employees.The journey is long and only struggle can lead to success.We will continue to surpass ourself, seize opportunities with customers and talents, cooperate for a long time, grow together and achieve a win-win situation.

测试设备：

通禾注重每一道工序，严格把控原材料，生产和检验细节，确保产品100%全检再出厂。电机老化测试机，电机寿命检测机，德国蔡司三坐标测量仪、日本三丰表面粗糙度测量仪、静电放电发生器、脉冲群发生器、恒温恒湿试验箱等检测设备，都为严密生产高质量产品提供了有效保障。

Test equipment:

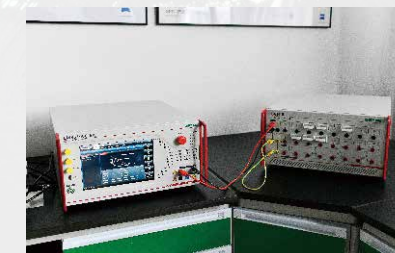
Tonhe pays attention to every process, strictly controls the raw materials, production and inspection details, and ensures that the products are 100% fully inspected before leaving the factory. Motor aging testing machine, motor life testing machine, German Zeiss coordinate measuring instrument, Japan Mitotoyo surface roughness measuring instrument, Electrostatic discharge generator, pulse group generator, constant temperature and humidity test chamber and other testing equipment, are strict production of high-quality products Provides an effective guarantee.



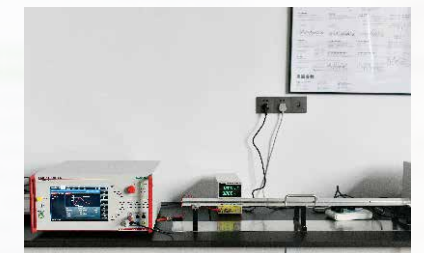
德国蔡司三坐标测量机
Three coordinate measuring machine



日本三丰表面粗糙度测量仪
Surface roughness measuring instrument



雷击浪涌发生器
Lightning surge generator



脉冲群发生器
Pulse group generator



高精密气密性测试机
High precision air tightness test machine



恒温恒湿试验箱
Constant temperature and humidity test chamber



精密型盐雾试验机
Precision salt spray test machine



静电放电发生器
Electrostatic discharge generator

认证资质



浙江省专精特新中小企业 国家级高新技术企业证书

ISO9001

ISO14001

发明专利证书 (部分)



美国NSF-61-G

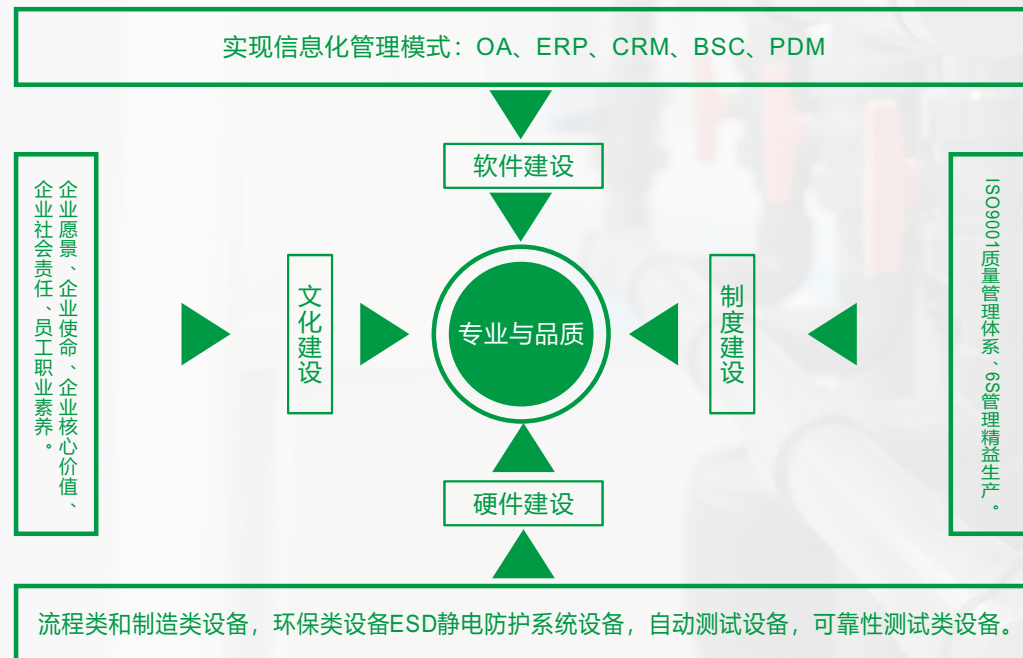
CE-TUV

CE-EMC-A150

RoHS认证报告

WRAS

通禾质量保证体系架构



A20执行器型号识别 A20 actuator model

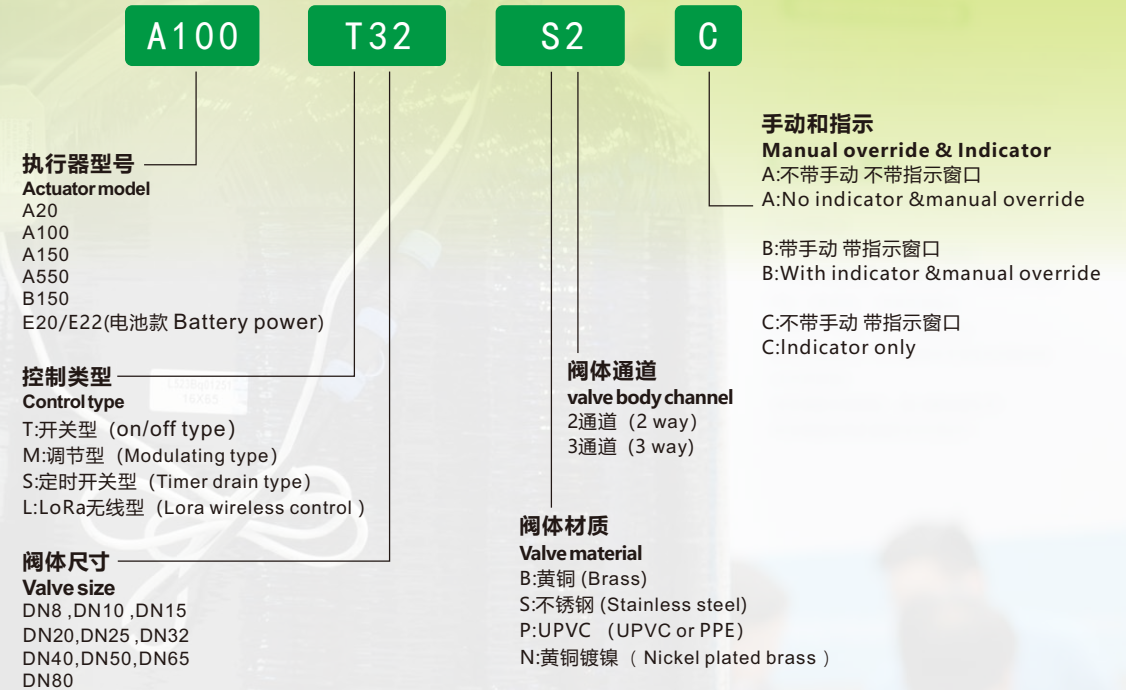


A20-***-A
不带手动 不带指示窗口
No indicator &
manual override

A20-***-B
带手动 带指示窗口
With indicator &
manual override

A20-***-C
不带手动 带指示窗口
Indicator only

电动阀命名规则 Naming scheme for electric ball valve

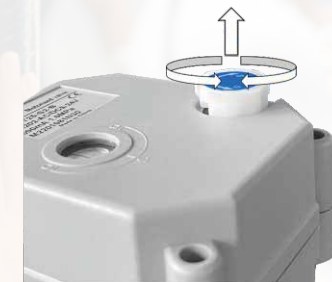


手动功能使用说明:

- 1.手动功能只能在阀门电源断电的情况下使用。
- 2.提起手动旋钮,确定旋转方向,尖头“O”方向为开阀,尖头“S”方向关阀,观察指示标到位后,需停止转动。
- 3.手动操作后必需按下手轮,否则会损坏齿轮。

Manual operation instruction:

- 1.The manual function can only use in the power failure situation
- 2.Lift the manual knob and confirm the direction of rotation. The valve is opened in the direction of "O" and closed in the direction of "S". Stop rotating after observing the indication mark in place.
- 3.Press the handwheel after manual operation, otherwise the gear will be damaged.



手动使用示意图
Manual operation
instruction

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

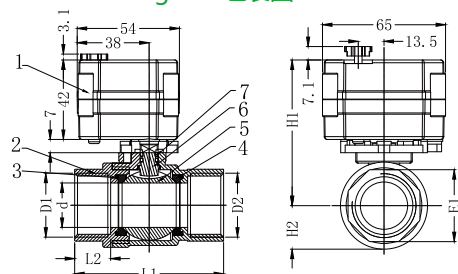


T20-B2-C

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
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	PPO
Sealing material 密封材料	FKM&PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3 N.m
Cable length 线长	0.5m,1.5m (Optional)
Environment temperature 环境温度	-15℃ ~ 50℃
Liquid temperature 液体温度	2℃ ~ 90℃
Manual override 手动功能	Yes No (Optional)
Open/close indicator 开关指示	Yes No (Optional)
Protection class 防护等级	IP67

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Brass		1
3	O-ring	FKM		2
4	Valve Seat	PTFE		2
5	Ball	Stainless steel	304	1
6	Valve Stem	Brass		1
7	O-ring	FKM		2

DESCRIPTION	D1/D2	d±0.3	L1±1	L2±1	E1±0.5	H1±1	H2
8-B2-B	1/4"	8	50	12	20.5	67.5	12
10-B2-B	3/8"	10	50	12	20.5	67.5	12
15-B2-B	1/2"	15	57	12	25	71	16
20-B2-B	3/4"	20	65.5	15	31	74.5/76	19
25-B2-B	1"	23.5	71.5	16	38	76.5	22
32-B2-B	1 1/4"	25	80	18	46	78	25
32-B2-B	1 1/4"	29	80	15	46	93	27

A20-T Series 2 Way Brass Electric Ball Valve(AC/DC110-230V)

A20-T系列两通黄铜电动球阀

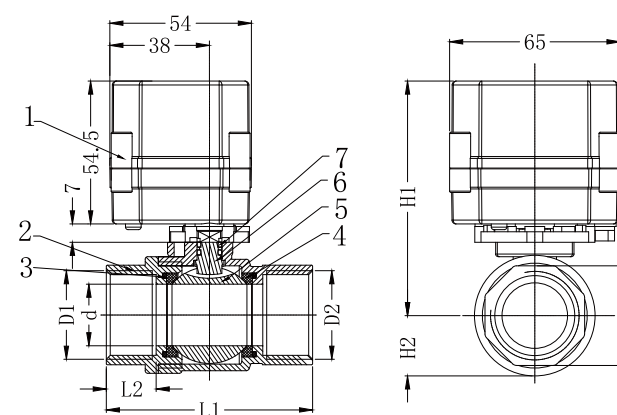
Technical Parameters 技术参数:

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 CR301CR303 CR305 CR306 CR401 CR502 CR702 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	PPO
Sealing material 密封材料	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3 N.m
Cable length 线长	0.5m,1.5m (Optional)
Environment temperature 环境温度	-15℃~50℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	Yes No (Optional)
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T20-B2-C

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Brass		1
3	O-ring	FKM		2
4	Valve Seat	PTFE		2
5	Ball	SS304		1
6	Valve Stem	Brass		1
7	O-ring	FKM		2

DESCRIPTION	D1/D2	d±0.3	L1±1	L2±1	E1±0.5	H1±1	H2
8-B2-C	1/4"	8	50	12	20.5	80	12
10-B2-C	3/8"	10	50	12	20.5	80	12
15-B2-C	1/2"	15	57	12	25	83.5	16
20-B2-C	3/4"	20	65.5	15	31	87/88.5	19
25-B2-C	1"	23.5	71.5	16	38	89	22
32-B2-C	1 1/4"	25	80	18	46	90.5	25
32-B2-C	1 1/4"	29	80	15	46	105.5	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版图请登录我司网站查询：www.tonheflow.com

A20-T Series 2 Way SS304 Electric Ball Valve A20-T系列两通不锈钢电动球阀



T25-S2-A



T25-S2-B

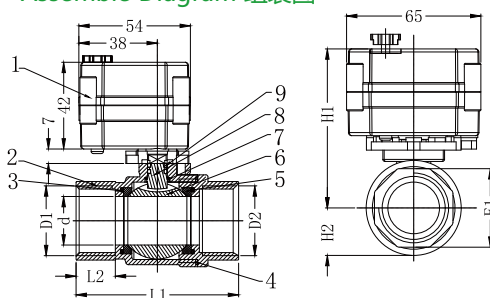


T25-S2-C

Technical Parameters技术参数:

Valve size 口径	NPT/BSP 1/4" 3/8" 1/2" 3/4" 1" (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	SS304 SS316
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3 N.m
Cable length 线长	0.5m,1.5m (Optional)
Environment temperature 环境温度	-15℃~50℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	Yes No(Optional)
Open/close indicator 开关指示	Yes No(Optional)
Protection class 防护等级	IP67

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Stainless Steel	304	1
3	O-ring	FKM		2
4	Sealing Gasket	PTFE		1
5	Valve Seat	PTFE		2
6	Ball	Stainless Steel	304	1
7	Gasket	PTFE		1
8	Valve Stem	Stainless Steel	304	1
9	O-ring	FKM		2

DESCRIPTION	D1/D2	d±0.3	L1±1	L2±1	E1±0.5	H1±1	H2
8-S2-B	1/4"	10	51	12	21	70	14
10-S2-B	3/8"	10	51	12	21	70	14
15-S2-B	1/2"	15	62	14	25	72	17
20-S2-B	3/4"	20	72	17	31	75.5	20
25-S2-B	1"	25	79	18	38	78.5	24.5

A20-T Series 2 Way SS304 Electric Ball Valve(AC/DC110-230V)

A20-T系列两通不锈钢电动球阀

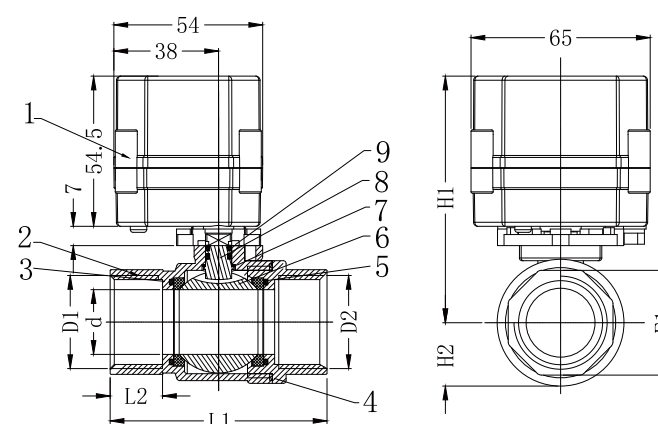
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1/4" 3/8" 1/2" 3/4" 1" (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 CR301 CR303 CR305 CR306 CR401 CR502 CR702 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	SS304 SS316
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3 N.m
Cable length 线长	0.5m,1.5m (Optional)
Environment temperature 环境温度	-15℃~50℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	Yes No (Optional)
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T20-S2-C

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Stainless Steel	304	1
3	O-ring	FKM		2
4	Sealing Gasket	PTFE		1
5	Valve Seat	PTFE		2
6	Ball	Stainless Steel	304	1
7	Gasket	PTFE		1
8	Valve Stem	Stainless Steel	304	1
9	O-ring	FKM		2

DESCRIPTION	D1/D2	d±0.3	L1±1	L2±1	E1±0.5	H1±1	H2
8-S2-C	1/4"	10	51	12	21	82.5	14
10-S2-C	3/8"	10	51	12	21	82.5	14
15-S2-C	1/2"	15	62	14	25	84.5	17
20-S2-C	3/4"	20	72	17	31	88	20
25-S2-C	1"	25	79	18	38	91	24.5

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.tonheflow.com

A20-T Series 2 Way UPVC Electric Ball Valve A20-T系列两通UPVC电动球阀



T25-P2-A



T25-P2-B

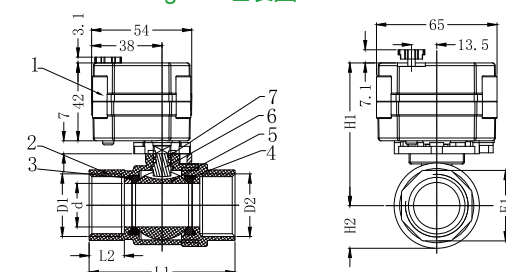


T25-P2-C

Technical Parameters 技术参数:

Product size 口径	NPT/BSP/No Thread Glued Type 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	≤8S
Life time 寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	UPVC PPE (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材料	EPDM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3 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 ~ 55°C
Manual override 手动功能	Yes No (Optional)
Open/close indicator 开关指示	Yes No (Optional)
Protection class 防护等级	IP67

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Quantity
1	Actuator	PPO	1
2	Valve Body	UPVC	1
3	O-ring	EPDM	2
4	Valve Seat	PTFE	2
5	Ball	UPVC	1
6	Valve Stem	UPVC+SS304	1
7	O-ring	EPDM	1

DESCRIPTION	D1/D2	d±0.3	L1±1	L2±1	E1±0.5	H1±1	H2
15-P2-B	1/2"	14	60	12	29.5	76.3	19.5
20-P2-B	3/4"	17	73	17	37	78	22
25-P2-B	1"	23	80	18	43.5	83	26.5
32-P2-B	1 1/4"	26	96	23	50	82	28

A20-T Series 2 Way UPVC Electric Ball Valve(AC/DC110-230V)

A20-T系列两通UPVC电动球阀

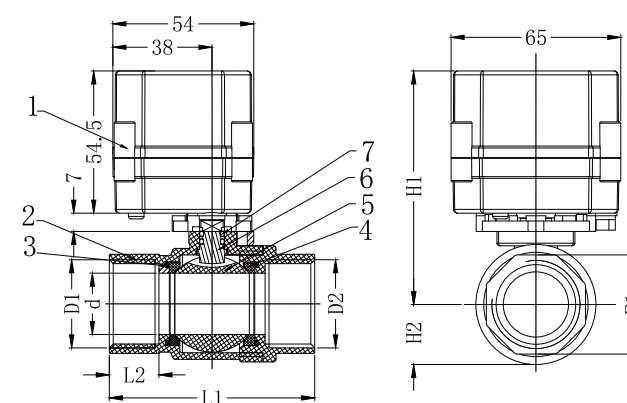
Technical Parameters 技术参数:

Product size 口径	NPT/BSP/No Thread Glued Type 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 CR301 CR303 CR305 CR306 CR401 CR502 CR702 CR703 CR704 CR705 CR706(Optional)
Working current 工作电流	≤500mA
Open/close time 开关时间	≤8S
Life time 寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	UPVC PPE (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材料	EPDM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3 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 ~ 55°C
Manual override 手动功能	Yes No (Optional)
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T25-P2-C

Assemble Diagram



Components 组成

No.	Name	Material	Quantity
1	Actuator	PPO	1
2	Valve Body	UPVC	1
3	O-ring	EPDM	2
4	Valve Seat	PTFE	2
5	Ball	UPVC	1
6	Valve Stem	UPVC+SS304	1
7	O-ring	FKM	1

DESCRIPTION	D1/D2	d±0.3	L1±1	L2±1	E1±0.5	H1±1	H2
15-P2-C	1/2"	14	60	12	29.5	88.8	19.5
20-P2-C	3/4"	17	73	17	37	90.5	22
25-P2-C	1"	23	80	18	43.5	95.5	26.5
32-P2-C	1 1/4"	26	96	23	50	94.5	28

A20-T Series 3 Way SS304 Electric Ball Valve A20-T系列三通不锈钢电动球阀



T20-S3-A



T20-S3-B

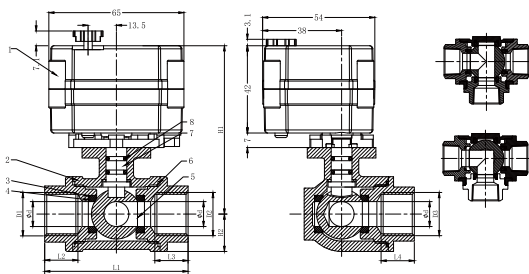


T25-S3-C

Technical Parameters 技术参数:

Product size 口径	NPT/BSP 1/4" 3/8" 1/2" 3/4" 1" (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	≤8S
Life time 寿命	70000 times (testing pressure is 0.4MPa,medium is water)
Valve body material 阀材质	SS304 SS316 (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM&PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3 N.m
Cable length 线长	0.5m,1.5m (Optional)
Environment temperature 环境温度	-15℃ ~ 50℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	Yes No (Optional)
Open/close indicator 开关指示	Yes No (Optional)
Protection class 防护等级	IP67

Assemble Diagram 组装图



DESCRIPTION	D1/D2/D3	d±0.5	L1±1	L2/L3/L4±0.5	H1±1	H2
8-S3-B	1/4"	6	52	11	71	14
10-S3-B	3/8"	6	52	11	71	14
15-S3-B	1/2"	12	69	17	81	18
20-S3-B	3/4"	15	75	17.5	75.5	20
25-S3-B	1"	18	85	17.5	78.5	23.5

Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Stainless Steel	304	1
3	O-ring	FKM		4
4	Valve Seat	PTFE		4
5	Ball	Stainless Steel	304	1
6	Sealing Gasket	PTFE		3
7	Valve Stem	Stainless Steel	304	1
8	O-ring	FKM		2

A20-T Series 3 Way SS304 Electric Ball Valve (AC/DC110-230V)

A20-T系列三通不锈钢电动球阀

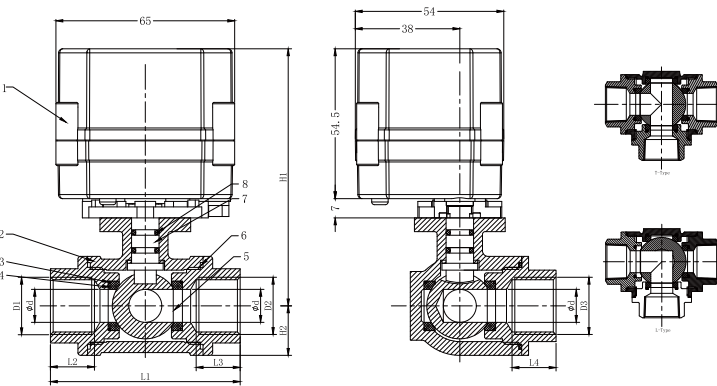
Technical Parameters 技术参数:

Product size 口径	NPT/BSP 1/4" 3/8" 1/2" 3/4" 1" (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 CR301 CR303 CR305 CR306 CR401 CR502 CR702 CR703 CR704 CR705 CR706(Optional)
Working current 工作电流	≤500mA
Open/close time 开关时间	≤8S
Life time 寿命	70000 times (testing pressure is 0.4MPa,medium is water)
Valve body material 阀材质	SS304 SS316 (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM&PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3 N.m
Cable length 线长	0.5m,1.5m (Optional)
Environment temperature 环境温度	-15℃~50℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	Yes No (Optional)
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T25-S3-C

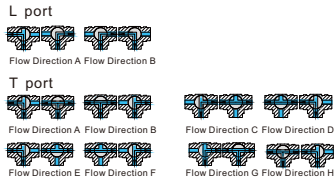
Assemble Diagram 组装图



DESCRIPTION	D1/D2/D3	d±0.5	L1±1	L2/L3/L4±0.5	H1±1	H2
8-S3-C	1/4"	6	52	11	83.5	14
10-S3-C	3/8"	6	52	11	83.5	14
15-S3-C	1/2"	12	69	17	93.5	18
20-S3-C	3/4"	15	75	17.5	88	20
25-S3-C	1"	18	85	17.5	91	23.5

Components 组成

No.	Name	Material	Quantity
1	Actuator	PPO	1
2	Valve Body	SS304	1
3	O-ring	FKM	4
4	Valve Seat	PTFE	4
5	Ball	SS304	1
6	Sealing Gasket	PTFE	3
7	Valve Stem	SS304	1
8	O-ring	FKM	2



A20-T Series 2 Way SS304 Male Thread Electric Ball Valve (AC/DC110-230V)

A20-T系列两通不锈钢外丝电动球阀

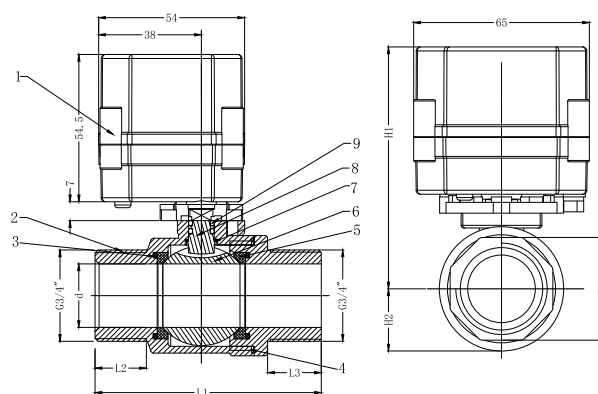
Technical Parameters 技术参数:

Product size 口径	BSP 1/2" 3/4" 1"
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 CR301 CR303 CR305 CR306 CR401 CR502 CR702 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	SS304
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3 N.m
Cable length 线长	0.5m,1.5m (Optional)
Environment temperature 环境温度	-15℃~50℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	Yes No (Optional)
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T15-S2-C

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Stainless Steel	304	1
3	O-ring	FKM		2
4	Sealing Gasket	PTFE		1
5	Valve Seat	PTFE		2
6	Ball	Stainless Steel	304	1
7	Gasket	PTFE		1
8	Valve Stem	Stainless Steel	304	1
9	O-ring	FKM		2

DESCRIPTION	D1/D2	d±0.2	L1±1	L2±1	L3±1	E1±0.5	H1±1	H2
15-S2-C	1/2"	15	68	12	12	25	85	17
20-S2-C	3/4"	20	78	14	14	31	88.5	20.5
25-S2-C	1"	25	88	15	15	38	91.5	24.5

A20-T Series 3 Way SS304 Male Thread Electric Ball Valve (AC/DC110-230V)

A20-T系列三通不锈钢外丝电动球阀

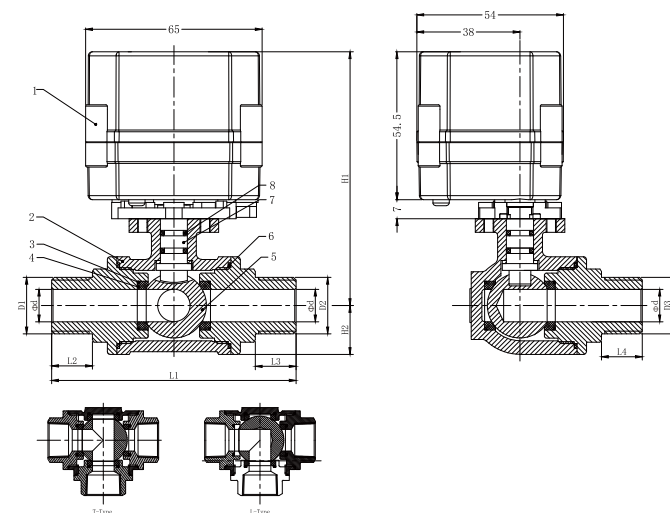
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1/2"(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 CR301 CR303 CR305 CR306 CR401 CR502 CR702 CR703 CR704 CR705 CR706(Optional)
Working current 工作电流	≤500mA
Open/close time 开关时间	≤8S
Life time 寿命	70000 times (testing pressure is 0.4MPa,medium is water)
Valve body material 阀材质	SS304
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3 N.m
Cable length 线长	0.5m,1.5m (Optional)
Environment temperature 环境温度	-15℃~50℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	Yes No (Optional)
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T15-S3-C

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Stainless Steel	304	1
3	O-ring	FKM		4
4	Valve Seat	PTFE		4
5	Ball	Stainless Steel	304	1
6	Sealing Gasket	PTFE		3
7	Valve Stem	Stainless Steel	304	1
8	O-ring	FKM		2

DESCRIPTION	D1/D2/D3	d±0.5	L1±1.5	L2/L3/L4±0.5	H1±1	H2±0.5
15-S3-C	1/2"	12	90	15	93.5	18

A20-T Series 2-Way Brass Electric Ball Valve With Female And Male Thread
A20-T系列两通黄铜一内一外螺纹电动球阀

Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1/2" 3/4" 1" (Optional)
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC5V DC12V DC24V AC/DC9-24V AC/DC110-230V (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 工作寿命	70000 times (testing pressure is 0.4MPa,medium is water)
Valve body material 阀材质	Brass
Actuator material 执行器材质	PPO
Sealing material 密封材质	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3N.m
Cable length 线长	0.5m,1.5m (Optional)
Environment temperature 环境温度	-15℃~50℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	Yes No (Optional)
Open/close indicator 开关指示	Yes No (Optional)
Protection class 防护等级	IP67



T25-B2-B

A20-T Series 2-Way SS304 Electric Ball Valve With Female And Male Thread (AC/DC110-230V)
A20-T系列两通不锈钢一内一外螺纹电动球阀 (AC/DC110-230V)

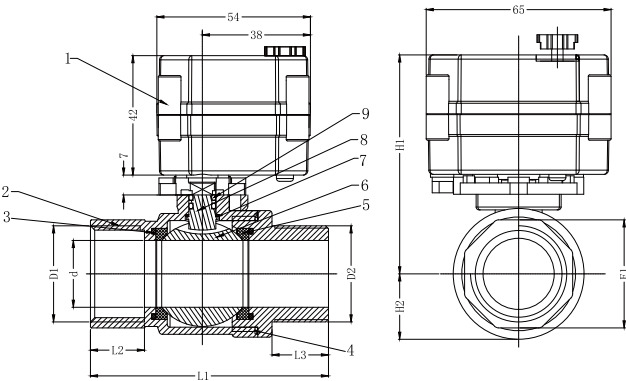
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1/2" 3/4" 1" (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 CR301 CR303 CR305 CR306 CR401 CR502 CR702 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	SS304
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3 N.m
Cable length 线长	0.5m,1.5m (Optional)
Environment temperature 环境温度	-15℃~50℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	Yes No (Optional)
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T20-S2-C

Assemble Diagram 组装图

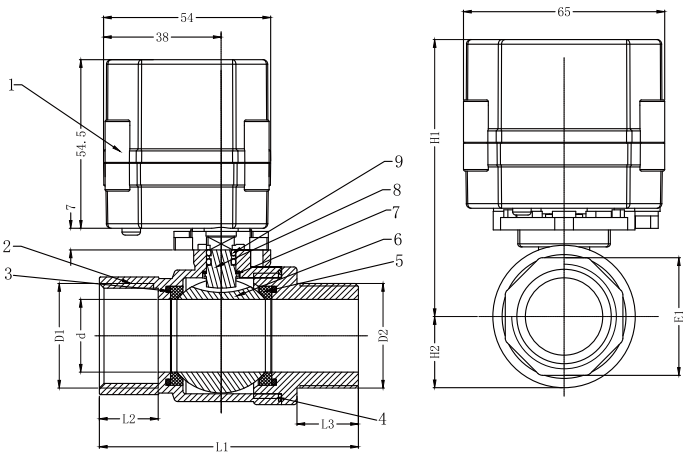


Components 组成

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

DESCRIPTION	D1/D2	d±0.2	L1±1	L2±1	L3±1	E1±0.5	H1±1	H2
15-B2-B	1/2"	15	57	12	12	25	71	16.5
20-B2-B	3/4"	20	73.5	14	14.5	31	74.5	19.5
25-B2-B	1"	24	77	15	15	38	76.5	22

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Stainless Steel	304	1
3	O-ring	FKM		2
4	Sealing Gasket	PTFE		1
5	Valve Seat	PTFE		2
6	Ball	Stainless Steel	304	1
7	Gasket	PTFE		1
8	Valve Stem	Stainless Steel	304	1
9	O-ring	FKM		2

DESCRIPTION	D1/D2	d±0.2	L1±1	L2±1	L3±1	E1±0.5	H1±1	H2
15-S2-C	1/2"	15	68	14	12	25	78	17
20-S2-C	3/4"	20	80	17	16	31	88	20
25-S2-C	1"	25	90.5	19	19	38	91.5	24.5

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版图请登录我司网站查询：www.tonheflow.com

A20-T Series 2 Way SS304 Tri-clamp Electric Ball Valve A20-T系列两通不锈钢快装电动球阀

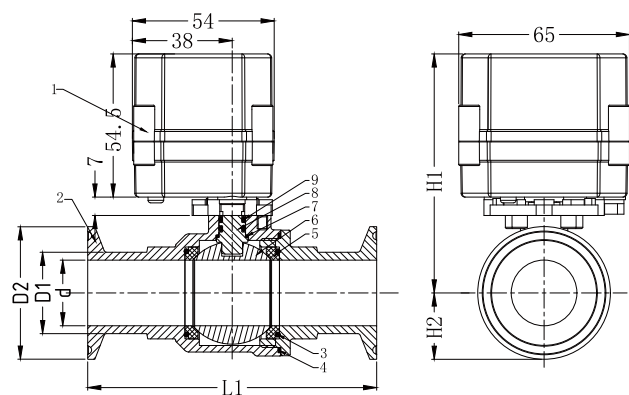
Technical Parameters 技术参数:

Valve size 口径	3/8" 1/2" 3/4" 1" (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 AC/DC110-230V(Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR302 CR303 CR304 CR305 CR306 CR401 CR501 CR502 CR701 CR702 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	SS304 SS316
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3 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 防护等级	IP67



T20-S2-C

Assemble Diagram 组装图



DESCRIPTION	d±0.2	D1±0.2	D2±0.2	L±1	H1±1	H2
25-S2-C	25	31	50.5	110	91	25.25
20-S2-C	20	26	50.5	100	88	25.25
15-S2-C	15	21	50.5	100	85	25.25
10-S2-C	9.5	12.7	25.4	75	83	14

Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Stainless Steel	304	1
3	O-ring	FKM		2
4	Sealing Gasket	PTFE		1
5	Valve Seat	PTFE		2
6	Ball	Stainless Steel	304	1
7	Gasket	PTFE		1
8	Valve Stem	Stainless Steel	304	1
9	O-ring	FKM		2

A20-T Series 3 Way Vertical Brass Electric Ball Valve A20-T系列立式三通黄铜电动球阀

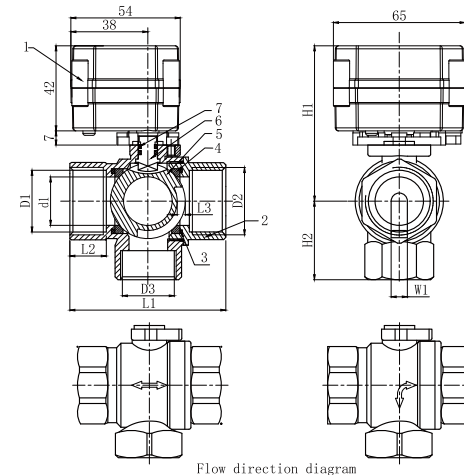
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1/2" 3/4" 1" (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 AC/DC110-230V(Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR302 CR303 CR304 CR305 CR306 CR401 CR501 CR502 CR701 CR702 CR703 CR704 CR705 CR706(Optional)
Working current 工作电流	≤500mA
Open/close time 开关时间	≤8S
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	PPO
Sealing material 密封材料	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3N.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 防护等级	IP67



T25-B3-C

Assemble Diagram 组装图



DESCRIPTION	D1/D2/D3	d1±0.3	W1±0.2	L1±1	L2±1	L3±0.2	H1±1	H2
15-B3-C	1/2"	15	8	58	13	3	72.5	29.5
20-B3-C	3/4"	15	7	66	16	3	70.5	32.5
25-B3-C	1"	24	8	75	17	4	77	40

Components 组成

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

A20-S Series 2 Way SS304 Timer Drain Valve

A20-S系列两通不锈钢时间控制阀

Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1/4" 3/8" 1/2" 3/4" 1"(Optional)
Maximum working pressure 最大工作压力	1.0 MPa
Circulation medium 介质	Fluid, air
Valve open /closed time 开关时间	≤ 8S
Working voltage 工作电压	AC/DC9-24V AC/DC110-230V (Optional)
Keeping valve open time 阀开时间范围	00:00:00~99:59:59S
Keeping valve closed time 阀关时间范围	00:00:00~99:59:59S
Working current 工作电流	≤500mA
Life time 寿命	70000 times (testing pressure is 0.4MPa,medium is water)
Valve body material 阀材质	SS304 SS316 Brass Nickel plated brass (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材质	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3N.m
Cable length 线长	0.5m,1.5m (Optional)
Environment temperature 环境温度	-15℃~50℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	No
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



S20-S2-C

Patent Certificate No:

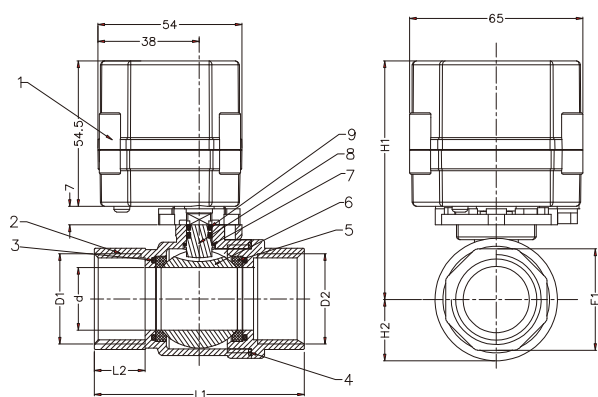
专利号: ZL 2012 2 0538591.4

"Spring return" in case of power is failure

(which is optional according to requirements)

可选功能-断电关阀

Assemble Diagram 组装图



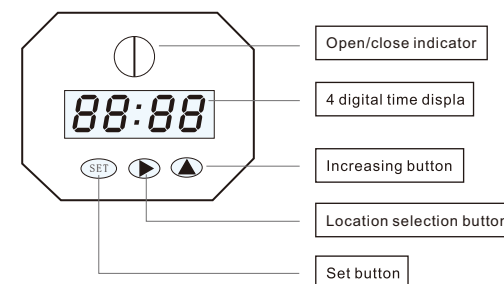
Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Stainless Steel	304	1
3	O-ring	FKM		2
4	Sealing Gasket	PTFE		1
5	Valve Seat	PTFE		2
6	Ball	Stainless Steel	304	1
7	Gasket	PTFE		1
8	Valve Stem	Stainless Steel	304	1
9	O-ring	FKM		2

DESCRIPTION	D1/D2	d±0.3	L1±1	L2±1	E1±0.5	H1±1	H2
8-S2-C	1/4"	10	51	12	21	82.5	14
10-S2-C	3/8"	10	51	12	21	82.5	14
15-S2-C	1/2"	15	62	14	25	84.5	17
20-S2-C	3/4"	20	72	17	31	88	20
25-S2-C	1"	25	79	18	38	91	24.5

Operation instruction of A20-S series timer drain valve

Description operator panel :

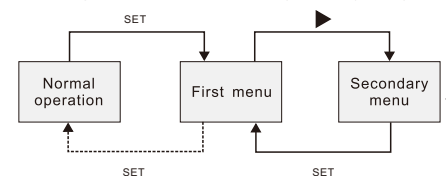


Operating manual :

Actuator parameter setting have two menu structures on below:

Function code (first menu),

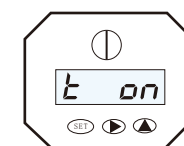
The setting parameters of function code (secondary menu)



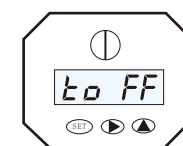
Picture 0

Secondary menu operation flowchart :

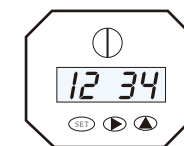
Function code	Content	Value	Unit	Remarks
t on	valve keeping open time	00 : 00 : 00~99 : 59 : 59	H:M:S	
t oFF	valve keeping closed time	00 : 00 : 00~99 : 59 : 59	H:M:S	
PonS	Power -on Action	On/oFF		
Cnt	The open & close times	0~9999	times	The total number of open & close times from use to view the menu



Picture1



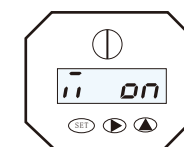
Picture2



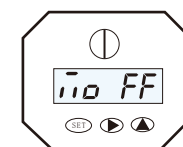
Picture3



Picture4



Picture5



Picture6

1、Press **SET** 4 seconds and enter to **first menu**, the screen display picture 1 text (t on), indicating enter to set the valve keeping open state .

Press **SET** again, the screen display picture 2 text (t o FF),indicating enter to set the valve keeping closed state .

2、Press then the **▶** after entering the stetting state , showing the valve keeping time for setting (Set the valve keeping open time in ton state. Set the valve keeping closed time in toFF state) . Select flashing bit by pressing **▶** , and change the numerical by pressing **▲** .When " : " is flashing , indicate setting "**HS (hours) :MS(minutes)**", and change the flashing fit by pressing **▶** .When the " : " is bright , indicate setting "**MS(minutes) :SS(seconds)**" . The data will be deposited in the valve controller after completing the setting .Press **SET** when finish setting , will return fist menu , press **SET** again , enter to next fist menu to set parameters .

3、Press the **SET** & **▶** , the screen display picture 5 , indicating open the valve manually. Press the **SET** & **▲** , the screen display picture 6 , indicating closed the valve manually . Exit manual mode to press the **SET** & **▶** or **SET** & **▲** . And go the power -on action .

4、Press **SET** to enter the setting menu, the interface shows Cnt, Press **▶** to enter, at this time the screen shows the on-off valve,The number of times, one open and one close count,close and open valve by manually does not count, up to 9999 times . Press **▶** on the counting screen, and the number flashes. Thenpress **▲** to clear the counting.

5、After three times, the screen displays ERR1 and the buzzer alarms. Press any key to manually disactivate the alarm and press **▶** to exit the alarm mode.

A20-T Series 3 Way Horizontal Brass Electric Ball Valve

A20-T系列卧式三通黄铜电动球阀

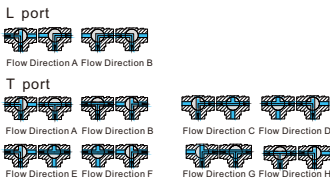
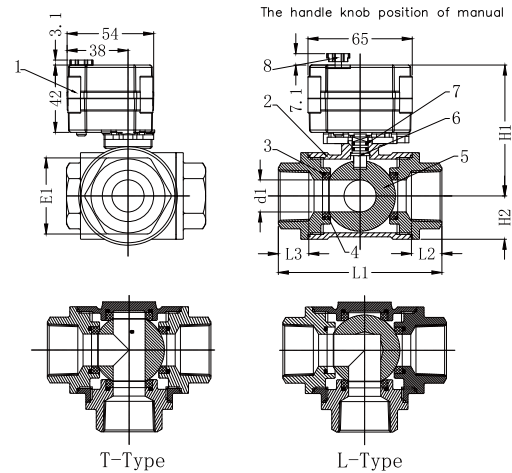
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1/4" 3/8" 1/2" 3/4" 1" (Optional)
Maximum working pressure最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC5V DC12V DC24V AC/DC9-24V AC/DC110-230V (Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR302 CR303 CR304 CR305 CR306 CR401 CR501 CR502 CR701 CR702 CR703 CR704 CR705 CR706 (Optional)
Working current 工作电流	≤500mA
Open/close time 开关时间	≤8S
Life time 工作寿命	70000 times (testing pressure is 0.4MPa,medium is water)
Valve body material 阀材质	Brass
Actuator material 执行器材质	PPO
Sealing material 密封材质	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3N.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 防护等级	IP67



T20-B3-B

Assemble Diagram 组装图



No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Brass		1
3	O-ring	FKM		4
4	Valve Seat	PTFE		4
5	Ball	Stainless Steel	304	1
6	Valve Stem	Brass		1
7	O-ring	FKM		2
8	Manual Operation	POM		1

DESCRIPTION	D1/D2	d1±0.3	L1±1	L2/L3±1	E1±0.5	H1±1	H2
8-B3-B	1/4"	6	51	11	20	65.5	11
10-B3-B	3/8"	6	51	11	20	65.5	11
15-B3-B	1/2"	12	70	17.5	27	72.5	17
20-B3-B	3/4"	15	75	17	31	76	20.5
25-B3-B	1"	18	85	17.8	38	78	22.5

A20-M Series 2 Way SS304 Modulating Ball Valve

A20-M系列两通不锈钢比例调节阀

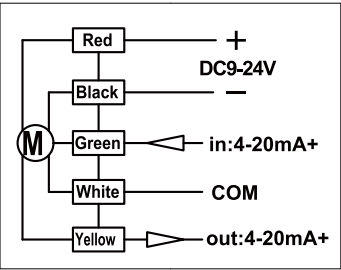
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1/4" 3/8" 1/2" 3/4" 1" (Optional)
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC9-24V DC9-45V
Input signal 输入信号	4-20mA 1-5V 2-10V 0-5V 0-10V RS485(Optional)
Out put signal 输出信号	PWM 4-20mA 1-5V 2-10V 0-5V 0-10V(Optional)
Working current 工作电流	≤500mA
Open/close time 开关时间	≤8S
Life time 工作寿命	70000 times (testing pressure is 0.4MPa,medium is water)
Valve body material 阀材质	SS304 SS316
Actuator material 执行器材质	PPO
Sealing material 密封材质	FKM & PTFE
Ball type 球阀类型	Full port or V 型(Optional)
Torque force 扭力	3 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	No
Open/close indicator 开关指示	Yes No (Optional)
Protection class 防护等级	IP67



M15-S2-C

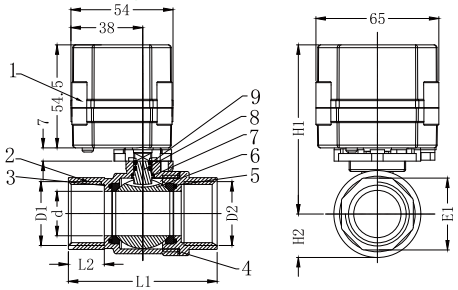
Wiring Diagram接线图



- 1、RD (红线) 电源+, 接DC9~24V正极
- 2、BK (黑线) 电源-, 接DC9~24V负极
- 3、GR (绿线) 位置输入+, 控制电流 (4-20mA) 正极
- 4、WT (白线) 位置输入-, 位置反馈负极
- 5、YW (黄线) 位置反馈+, 反馈信号为输出电流4-20mA

1. RD(red cable) connects DC9-24V positive pole
2. BK(black cable) connects DC9 ~ 24V-negative pole
3. GR(green cable) connects position input /control current +/- control voltage +4-20mA
4. WT(white cable) connects common signal input and output signal' s negative
5. YW(yellow cable) connects position feedback positive, output 4-20mA as feedback signal

Assemble Diagram 组装图



DESCRIPTION	D1/D2	d±0.5	L1±1	L2±1	E1±0.5	H1±1	H2
8-S2-C	1/4"	10	51	12	21	82.5	14
10-S2-C	3/8"	10	51	12	21	82.5	14
15-S2-C	1/2"	15	62	14	25	84.5	17
20-S2-C	3/4"	20	72	17	31	88	20
25-S2-C	1"	25	79	18	38	91	24.5

Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Stainless Steel	304	1
3	O-ring	FKM		2
4	Sealing Gasket	PTFE		1
5	Valve Seat	PTFE		2
6	Ball	Stainless Steel	304	1
7	Gasket	PTFE		1
8	Valve Stem	Stainless Steel	304	1
9	O-ring	FKM		2

A20-T Series 2-way Brass Electric Ball Valve With Heightening Bracket

A20-T系列两通黄铜电动球阀配加高支架

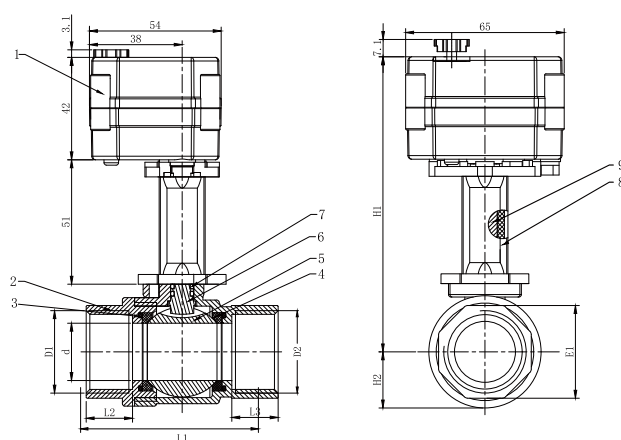
Technical Parameters 技术参数:

Valve 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	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC5V DC12V DC24V AC/DC9-24V AC/DC110-230V (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 工作寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	Brass Nickel plated brass (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材质	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3 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 防护等级	IP67



T25-B2-B

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Brass		1
3	O-ring	FKM		2
4	Valve Seat	PTEE		2
5	Ball	Stainless Steel	304	1
6	Valve Stem	Brass		1
7	O-ring	FKM		2
8	Holder	PPO		1
9	Coupling	Stainless Steel	304	1

DESCRIPTION	D1/D2	d1±0.3	L1±1	L2±1	E1±0.5	H1±1.5	H2
8-B2-B	1/4"	8	50	12	20.5	111.5	12
10-B2-B	3/8"	10	50	12	20.5	111.5	12
15-B2-B	1/2"	15	57	12	25	115	16
20-B2-B	3/4"	20	65.5	15	31	118.5/120	19
25-B2-B	1"	23.5	71.5	16	38	120.5	22
32-B2-B	1 1/4"	25	80	18	46	122	25
32-B2-B	1-1/4"	29	80	15	46	137	27

A20-T Series 2 Way UPVC Double Union Electric Ball Valve

A20-T 系列两通UPVC双由令电动球阀

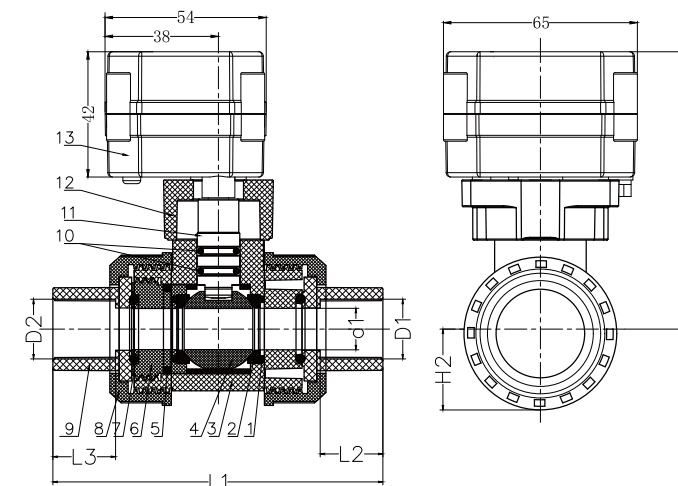
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP/No Thread Glued Type 1/2" (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	≤8S
Life time 寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	UPVC
Actuator material 执行器材质	PPO
Sealing material 密封材料	EPDM/FKM&PTFE (Optional)
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3 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	2~55°C
Manual override 手动功能	Yes No (Optional)
Open/close indicator 开关指示	Yes No (Optional)
Protection class 防护等级	IP67



T15-P2-C

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Quantity
1	O-ring	EPDM/VITON	2
2	Valve Seat	PTFE	2
3	Valve Body	UPVC	1
4	Ball	UPVC	1
5	O-ring	EPDM/VITON	2
6	Bonnet	UPVC	2
7	O-ring	EPDM/VITON	2
8	Gland	UPVC	2
9	Socket	UPVC	2
10	O-ring	EPDM/VITON	2
11	Valve Stem	PPO	1
12	Holder	PPO	1
13	Acatuator	PPO	1

DESCRIPTION	D1/D2	d±0.5	L1±1.5	L2/L3±0.5	H1±1.5	H2
15-P2-A/C	1/2"	15	107	22.3	88	27.5

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版图请登录我司网站查询：www.tonheflow.com

A20-T Series Reduced-port 2-Way SS304 Electric Ball Valve

A20-T系列两通不锈钢缩通径电动球阀

Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1/2" 3/4" 1" (Optional)
Maximum working pressure最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated 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 工作寿命	70000 times (testing pressure is 0.4MPa,medium is water)
Valve body material 阀材质	SS304 SS316 (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材质	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	3N.m
Cable length 线长	0.5m,1.5m (Optional)
Environment temperature 环境温度	-15℃~50℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	Yes No (Optional)
Open/close indicator 开关指示	Yes No (Optional)
Protection class 防护等级	IP67



T20-S2-B

A100 Series 2 Way UPVC Electric Ball Valve

A100系列两通UPVC电动球阀

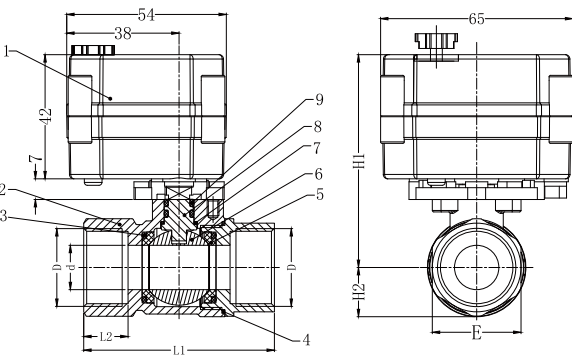
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP/No Thread Glued Type 1/2" 3/4" 1" 1 1/4" 1 1/2" 2" (Optional)
Maximum working pressure最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V AC/DC12-24V AC/DC110-230V(Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR303 CR305 CR306 CR401 CR501 CR502 CR703 CR704 CR705 CR706(Optional)
Working current 工作电流	≤1A
Open/close time 开关时间	≤15S
Life time 工作寿命	70000 times (testing pressure is 0.4MPa,medium is water)
Valve Body material 阀材质	UPVC
Actuator material 执行器材质	PPO
Sealing material 密封材质	EPDM / FKM & PTFE (Optional)
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	10N.m
Cable length 线长	0.5m,1.5m (Optional)
Environment temperature 环境温度	-15℃~50℃
Liquid temperature 液体温度	2℃~55℃
Manual override 手动功能	No
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T40-P2-C

Assemble Diagram 组装图

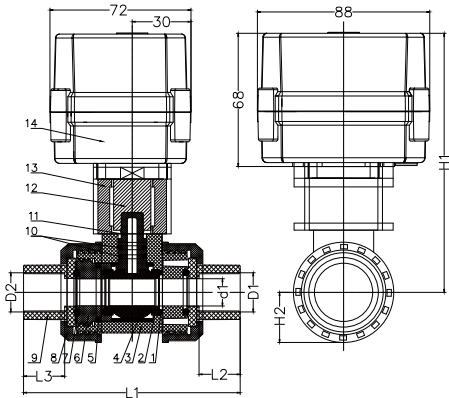


DESCRIPTION	D	d±0.3	L1±1	L2±0.5	E	H1±1	H2
S2-DN15-Ø14-B	1/2"	14	62	14	25	72.5	17
S2-DN20-Ø15-B	3/4"	15	64.5	15	30	72	16.65
S2-DN32-Ø25-B	1-1/4"	25	80	19.5	46	79	24.5

Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Stainless Steel	304	1
3	O-ring	FKM/EPDM		2
4	Sealing Gasket	PTFE		1
5	Valve Seat	PTFE		2
6	Ball	Stainless Steel	304	1
7	Gasket	PTFE		1
8	Valve Stem	Stainless Steel	304	1
9	O-ring	FKM/EPDM		2

Assemble Diagram 组装图



DESCRIPTION	D1/D2	d1±0.3	L1±1	L2/L3±1	H1±1	H2	D1/D2			
15-P2-C	1/2"	15	107	22.3	130	27	21.54	20.30	22.4	22.40
20-P2-C	3/4"	20	115	25.5	134.5	32	26.87	25.30	26.45	26.40
25-P2-C	1"	25	129	28.6	146.3	37	33.65	32.30	32.55	34.50
32-P2-C	1 1/4"	32	144	32	156.8	42	42.42	40.30	38.60	42.50
40-P2-C	1 1/2"	40	161	35	163.6	49	48.56	50.30	48.70	48.60
50-P2-C	2"	50	173	38	179.6	59	60.63	63.30	60.80	60.60
							ANSI	DIN	JIS	CNS

Components 组成

No.	Name	Material	specification	Quantity
1	O-ring	EPDM/VITON		2
2	Valve Seat	PTFE		2
3	Valve Body	UPVC		1
4	Ball	UPVC		1
5	O-ring	EPDM/VITON		2
6	Bonnet	UPVC		2
7	O-ring	EPDM/VITON		2
8	Gland	UPVC		2
9	Socket	UPVC		2
10	O-ring	EPDM/VITON		2
11	Valve Stem	UPVC		1
12	Coupling	Stainless steel	304	1
13	Holder	Stainless steel	304	1
14	Acatuator	PPO		1

A100-T Series 2 Way SS304 Electric Ball Valve

A100-T 系列两通不锈钢电动球阀

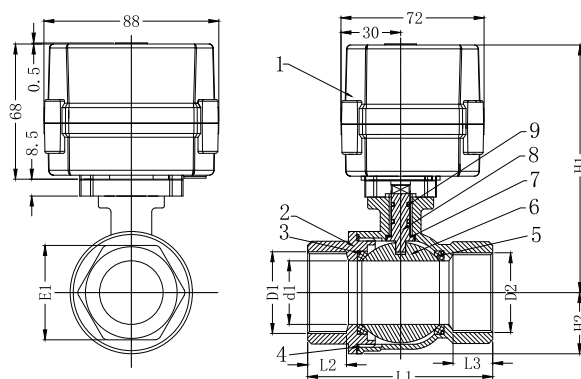
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1/2" 3/4" 1" 1-1/4" 1-1/2" 2" (Optional)
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V AC/DC12-24V AC/DC110-230V(Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR303 CR305 CR306 CR401 CR501 CR502 CR703 CR704 CR705 CR706 (Optional)
Working current 工作电流	≤1A
Open/close time 开关时间	≤15S
Life time 工作寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	SS304 SS316(Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材质	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	10N.m
Cable length 线长	0.5m 1.5m (Optional)
Environment temperature 环境温度	-15℃~50℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	No
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T32-S2-C

Assemble Diagram 组装图



Components 组成

No.	Name	Material	specification	Quantity
1	Actuator	PPO		1
2	Valve Body	stainless steel	304	1
3	O-ring	FKM		2
4	Sealing Gasket	PTFE		1
5	Valve Seat	PTFE		2
6	Ball	stainless steel	304	1
7	Gasket	PTFE		1
8	Valve Stem	stainless steel	304	1
9	O-ring	FKM		2

DESCRIPTION	D1/D2	d1±0.3	L1±1	L2/L3±1	E1±0.5	H1±1	H2
50-S2-C	2"	49	130	27	66	136.5	45
40-S2-C	1-1/2"	38	114	26	54	128.5	36
32-S2-C	1-1/4"	32	102	25	47	121.5	31
25-S2-C	1"	25	80	18	38	106	24.5
20-S2-C	3/4"	20	72	17	31	103	20
15-S2-C	1/2"	15	63	14	25	99	17

A100-T Series Electric 3 Way Electric SS304 Ball Valve

A100-T 系列三通不锈钢电动球阀

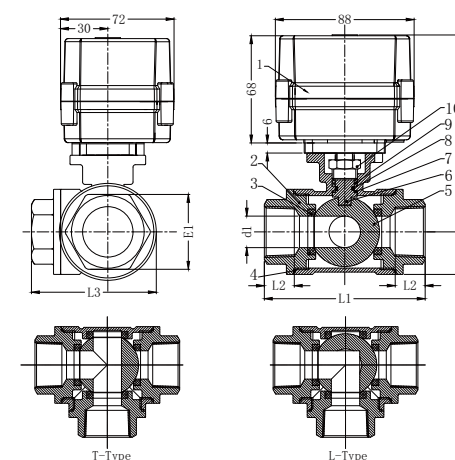
Technical Parameters 技术参数:

Product size 口径	NPT/BSP 1/2" 3/4" 1" (Optional)
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V AC/DC12-24V AC/DC110-230V(Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR303 CR305 CR306 CR401 CR501 CR502 CR703 CR704 CR705 CR706 (Optional)
Working current 工作电流	≤1A
Open/close time 开关时间	≤15S
Life time 工作寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀体材质	SS304 SS316 (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材质	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Toque force 扭力	10N.m
Cable length 线长	0.5m, 1.5m (Optional)
Environment temperature 环境温度	-15℃~50℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	No
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T25-S3-C

Assemble Diagram 组装图



DESCRIPTION	D1/D2	d1±0.3	L1±1	L2±1	E1±0.5	H1±1	H2	L3
15-S3-C	1/2"	12	69	18	25	111.5	18	53
20-S3-C	3/4"	15	79	20	31	116	21	60
25-S3-C	1"	18	86	20	38	124.5	23.5	68

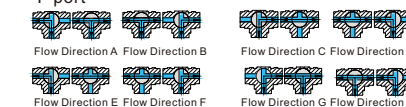
Components 组成

No.	Name	Material	specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Stainless Steel	304	1
3	Valve Seat	PTFE		4
4	Sealing Gasket	PTFE		3
5	Ball	Stainless Steel	304	1
6	Valve Stem	Stainless Steel	304	1
7	Stem Gasket	PTFE		1
8	Oil-seal	FKM		1
9	Packing	PTFE		2
10	Packing Gland	Stainless Steel	304	1

L port



T port



A100-T Series 2 Way Brass Electric Ball Valve

A100-T系列两通黄铜电动球阀

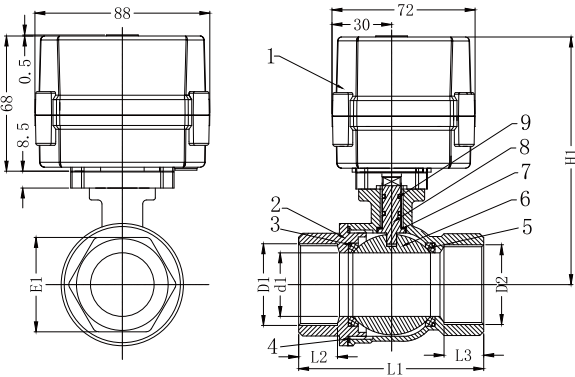
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1/2" 3/4" 1" 1-1/4" 1-1/2" 2" (Optional)
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V AC/DC12-24V AC/DC110-230V((Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR303 CR305 CR306 CR401 CR501 CR502 CR703 CR704 CR705 CR706 (Optional)
Working current 工作电流	≤1A
Open/close time 开关时间	≤15S
Life time 工作寿命	70000 times (testing pressure is 0.4MPa,medium is water)
Valve body material 阀材质	Brass
Actuator material 执行器材质	PPO
Sealing material 密封材质	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	10N.m
Cable length 线长	0.5m 1.5m (Optional)
Environment temperature 环境温度	-15℃~50℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动	No
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T50-B2-C

Assemble Diagram 组装图



Components 组成

No.	Name	Material	specification	Quantity
1	Actuator	PPO		1
2	Valve Body	stainless steel	Brass	1
3	O-ring	FKM		2
4	Sealing Gasket	PTFE		1
5	Valve Seat	PTFE		2
6	Ball	stainless steel	304	1
7	Gasket	PTFE		1
8	Valve Stem	stainless steel	304	1
9	O-ring	FKM		2

DESCRIPTION	D1/D2	d1±0.3	L1±1	L2/L3±1	E1±0.5	H1±1
50-B2-C	2"	49	130	27	66	136.5
40-B2-C	1-1/2"	38	114	25	54	127.5
32-B2-C	1-1/4"	32	102	24.5	47	121.5
25-B2-C	1"	23.5	71.5	16	38	104
20-B2-C	3/4"	20	65.5	15	31	102/103.5
15-B2-C	1/2"	15	57	12	25	98.5

A150-T Series 2 Way SS304 Tri-clamp Electric Ball Valve

A150-T系列两通不锈钢三片式快装电动球阀

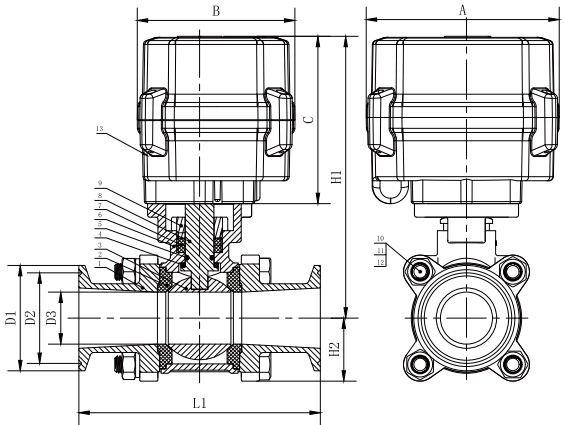
Technical Parameters 技术参数:

Valve size 口径	3/8" 1/2" 3/4" 1" 1 1/4" (Optional)
Connection standard 连接标准	ISO5211 F03、 F05
Output axis specification 输出轴规格	11*11 9*9
Maximum working pressure 最大工作压力	1.6MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V AC24V DC12-24V AC110-230V (Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR303 CR305 CR306 CR501 CR502 CR702 CR703 CR705 CR706 (Optional)
Working current 工作电流	≤1.5A
Open/close time 开关时间	≤12S
Life time 寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	SS304 SS316 (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	15 N.m
Cable Length 线长	0.5m ,1.5m (Optional)
Environment temperature 环境温度	-15℃ ~ 50℃
Liquid temperature 液体温度	2℃ ~ 90℃
Manual operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T32-S23-B

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Bonnet	Stainless Steel	304	2
2	Sealing	PTFE		2
3	Ball	Stainless Steel	304	1
4	Gasket	PTFE		1
5	O-Ring	FKM		1
6	Valve Body	Stainless Steel	304	1
7	Packing	PTFE		2
8	Valve Stem	Stainless Steel	304	1
9	Packing Gland	Stainless Steel	304	1
10	Bolt	Stainless Steel	304	4
11	Spring Washer	Stainless Steel	304	4
12	Nut	Stainless Steel	304	4
13	Actuator	PPO		1

DESCRIPTION	A	B	C	D1±0.3	D2±0.3	D3±0.5	L1±2	H1±2	H2
15-S23-B	92.6	75.7	80.4	50.5	43.5	15	97.5	123.4	25.25
20-S23-B	92.6	75.7	80.4	50.5	43.5	20	105.5	127.4	28
25-S23-B	92.6	75.7	80.4	50.5	43.5	25	116	135.4	30
32-S23-B	92.6	75.7	80.4	50.5	43.5	32	133.5	140.4	37

A150-T Series 2 Way SS304 Electric Ball Valve

A150-T系列两通不锈钢电动球阀

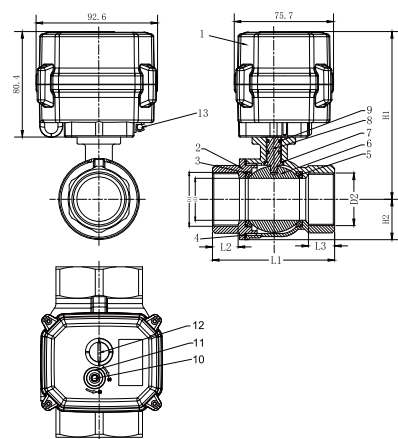
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1 1/4" 1 1/2" 2" (Optional)
Connection standard 连接标准	ISO5211 F03、F05
Output axis specification 输出轴规格	11*11 9*9
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V AC24V DC12-24V AC110-230V (Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR303 CR305 CR306 CR501 CR502 CR702 CR703 CR705 CR706 (Optional)
Working current 工作电流	≤1.5A
Open/close time 开关时间	≤12S
Life time 寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	SS304 SS316 (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	15 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 operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T50-S2-B

Assemble Diagram 组装图



DESCRIPTION	D1/D2	d1±0.3	L1±1	L2/L3±1	E1±0.5	H1±1	H2
32-S2-B	1 1/4"	32	102	25	47	125.4	31
40-S2-B	1 1/2"	38	114	26	54	132.4	36
50-S2-B	2"	49	130	27	66	140.4	44.5

Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Stainless Steel	304	1
3	O-ring	FKM		2
4	Sealing Gasket	PTFE		1
5	Valve Seat	PTFE		2
6	Ball	Stainless Steel	304	1
7	Gasket	PTFE		1
8	Valve Stem	Stainless Steel	304	1
9	O-ring	FKM		2
10	Manual Shaft	Stainless Steel	303	1
11	Oil-seal	NBR		1
12	Indicator	PC		1
13	Hexagon Wrench	Stainless Steel	303	1

A150-T Series 3 Way SS304 Electric Ball Valve

A150-T系列三通不锈钢电动球阀

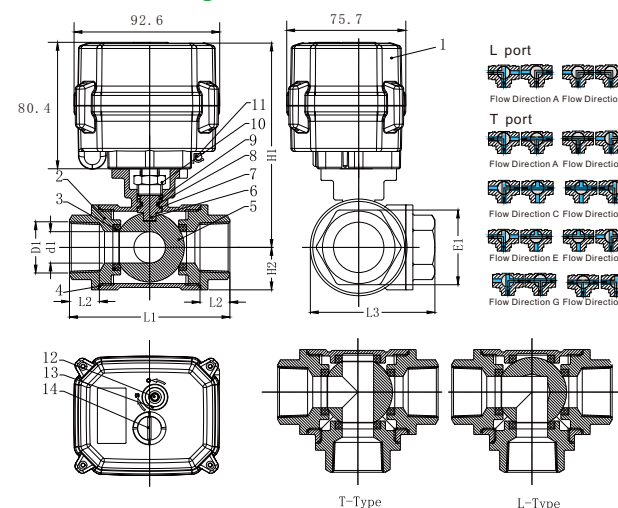
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1/2" 3/4" 1" (Optional)
Connection standard 连接标准	ISO5211 F03、F05
Output axis specification 输出轴规格	11*11 9*9
Maximum working pressure 最大工作压力	1.0Mpa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V AC24V DC12-24V AC110-230V (Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR303 CR305 CR306 CR501 CR502 CR702 CR703 CR705 CR706 (Optional)
Working current 工作电流	≤1.5A
Open/close time 开关时间	≤12S
Life time 寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	SS304 SS316 (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	15 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 operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T25-S3-B

Assemble Diagram 组装图



DESCRIPTION	D1	d1±0.3	L1±1	L2±1	E1±0.5	H1±1	H2	L3
15-S3-B	1/2"	12	70	18	25	118	18	53
20-S3-B	3/4"	15	79	20	31	122.4	21	60
25-S3-B	1"	18	86	20	38	131	23.5	68

Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Stainless Steel	304	1
3	Valve Seat	PTFE		4
4	Sealing Gasket	PTFE		3
5	Ball	Stainless Steel	304	1
6	Valve Stem	Stainless Steel	304	1
7	Gasket	PTFE		1
8	Oil-seal	FKM		1
9	Packing	PTFE		2
10	Packing Gland	Stainless Steel	304	1
11	Hexagon Wrench	Stainless Steel	303	1
12	Manual Shaft	Stainless Steel	303	1
13	Oil-seal	NBR		1
14	Indicator	PC		1

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.tonheflow.com

A150-T Series 2 Way 3-pieces SS304 Electric Ball Valve A150-T系列两通三片式不锈钢电动球阀

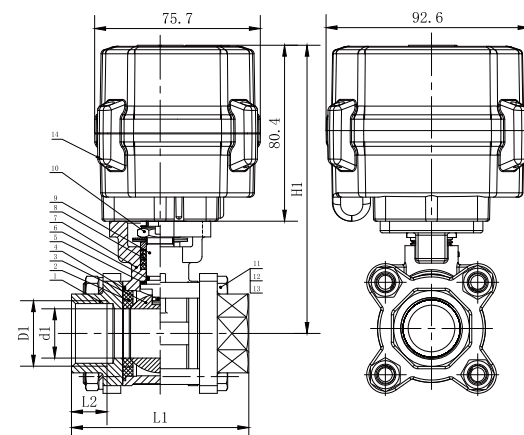
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1/2" 3/4" 1" 1 1/4" (Optional)
Connection standard 连接标准	ISO5211 F03、F05
Output axis specification 输出轴规格	11*11 9*9
Maximum working pressure 最大工作压力	1.6MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V AC24V DC12-24V AC110-230V (Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR303 CR305 CR306 CR501 CR502 CR702 CR703 CR705 CR706 (Optional)
Working current 工作电流	≤1.5A
Open/close time 开关时间	≤12S
Life time 寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	SS304 SS316 (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	15 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 operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T25-S23-B

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Bonnet	Stainless Steel	304	2
2	Valve Seat	PTFE		2
3	Ball	Stainless Steel	304	1
4	Sealing Gasket	PTFE		2
5	Gasket	PTFE		1
6	O-ring	FKM		1
7	Valve Body	Stainless Steel	304	1
8	Packing	PTFE		2
9	Valve Stem	Stainless Steel	304	1
10	Packing Gland	Stainless Steel	304	1
11	Bolt	Stainless Steel	304	4
12	Spring Washer	Stainless Steel	304	4
13	Nut	Stainless Steel	304	4
14	Actuator	PPO		1

DESCRIPTION	D1±0.5	d1±1	L1±1	L2±1	H1±1
15-S23-B	1/2"	15	68	14	123.4
20-S23-B	3/4"	20	80	16	127.4
25-S23-B	1"	25	87	17	136.4
32-S23-B	1 1/4"	32	100	18	140.4

A150-T Series 2 Way Brass Electric Ball Valve A150-T系列两通黄铜电动球阀

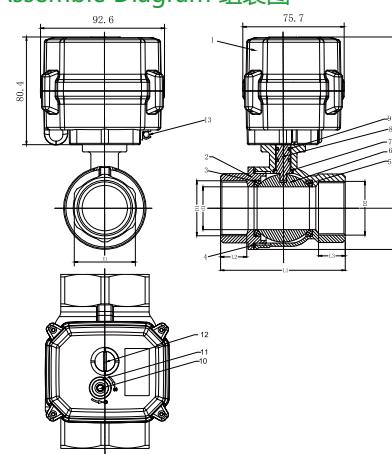
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1 1/4" 1 1/2" 2" (Optional)
Connection standard 连接标准	ISO5211 F03、F05
Output axis specification 输出轴规格	11*11 9*9
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V AC24V DC12-24V AC110-230V (Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR303 CR305 CR306 CR501 CR502 CR702 CR703 CR705 CR706 (Optional)
Working current 工作电流	≤1.5A
Open/close time 开关时间	≤12S
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	PPO
Sealing material 密封材料	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	15 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 operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T50-B2-B

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Brass		1
3	O-ring	FKM		2
4	Sealing Gasket	PTFE		1
5	Valve Seat	PTFE		2
6	Ball	Stainless Steel	304	1
7	Gasket	PTFE		1
8	Valve Stem	Stainless Steel	304	1
9	O-ring	FKM		2
10	Screw x 4	Stainless Steel	303	1
11	Oil-seal	NBR		1
12	Indicator	PC		1
13	Hexagon Wrench	Stainless Steel	303	1

DESCRIPTION	D1/D2	d1±0.3	L1±1	L2/L3±1	E1±0.5	H1±1	H2
32-B2-B	1 1/4"	32	102	25	47	125.4	31
40-B2-B	1 1/2"	38	114	26	54	131.4	36
50-B2-B	2"	49	130	27	66	140.4	44.5

A150-T Series SS304 Electric Butterfly Valve

A150-T系列不锈钢电动蝶阀

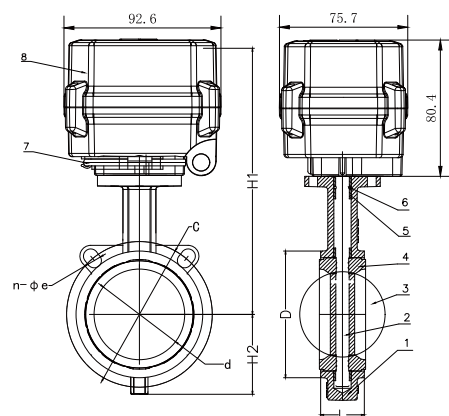
Technical Parameters 技术参数:

Valve size 口径	DN25 DN32 (Optional)
Connection standard 连接标准	ISO5211 F03、F05
Output axis specification输出轴规格	11*11 9*9
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V AC24V DC12-24V AC110-230V (Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR303 CR305 CR306 CR501 CR502 CR702 CR703 CR705 CR706 (Optional)
Working current 工作电流	≤1.5A
Open/close time 开关时间	≤12S
Life time 寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	SS304 SS316
Actuator material 执行器材质	PPO
Sealing material 密封材料	EPDM
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	15 N.m
Cable Length 线长	0.5m ,1.5m (Optional)
Environment temperature 环境温度	-15℃ ~ 50℃
Liquid temperature 液体温度	0℃ ~ 80℃
Manual operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



A150-T

Assemble Diagram 组装图



DESCRIPTION	d±0.3	D±0.5	L±0.5	C±0.3	n-Φe	H2±0.5	H1±1
25/32-SD-B	38	72	31.5	101.5	2-18	49.8	159.4

Components 组成

No.	Name	Material	Specification	Quantity
1	Valve Body	Stainless Steel	304	1
2	Valve Seat	EPDM		1
3	Valve Plate	Stainless Steel	304	1
4	Valve Shaft	416		1
5	Shaft Sleeve	EPDM		2
6	O-ring	EPDM		1
7	Hexagon Wrench	Stainless Steel	304	1
8	Actuator	PPO		1

A150-T Series 2 Way SS304 Tri-clamp Electric Ball Valve

A150-T系列两通快装电动球阀

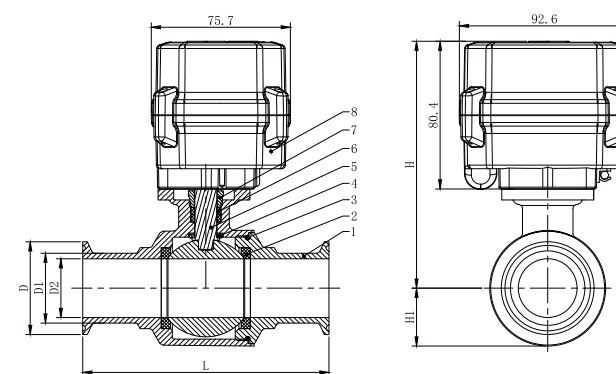
Technical Parameters 技术参数:

Valve size 口径	Φ19 Φ25 Φ32 Φ38 (Optional)
Connection standard 连接标准	ISO5211 F03、F05
Output axis specification输出轴规格	11*11 9*9
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V AC24V DC12-24V AC110-230V (Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR303 CR305 CR306 CR501 CR502 CR702 CR703 CR705 CR706 (Optional)
Working current 工作电流	≤1.5A
Open/close time 开关时间	≤12S
Life time 寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	SS304 SS316
Actuator material 执行器材质	PPO
Sealing material 密封材料	PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	15 N.m
Cable Length 线长	0.5m ,1.5m (Optional)
Environment temperature 环境温度	-15℃ ~ 50℃
Liquid temperature 液体温度	2℃ ~ 90℃
Manual operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



A150-T

Assemble Diagram 组装图



DESCRIPTION	D	D1±0.3	D2±0.3	L±1	H±2	H1
38-S2-B	50.5	38	32	134	134.4	25.25
32-S2-B	50.5	32	28.5	120	129	25.25
25-S2-B	50.5	25	22	119	127.5	25.25
19-S2-B	50.5	19	15.5	99	121	25.25

Components 组成

No.	Name	Material	Specification	Quantity
1	Valve Body	Stainless Steel	304	1
2	Valve Seat	PTFE		2
3	O-Ring	VMQ		1
4	Gasket	PTFE		1
5	Valve Stem	Stainless Steel	304	1
6	Packing	PTFE		2
7	Packing Gland	Stainless Steel	304	1
8	Actuator	PPO		1

A150-M Series 2 Way UPVC Modulating Electric Ball Valve

A150-M系列两通UPVC电动比例调节阀

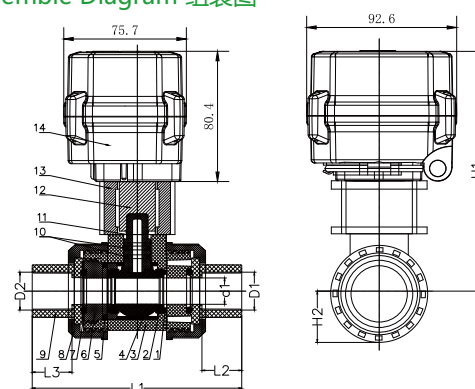
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP/No Thread Glued Type 1/2" 3/4" 1" 1 1/4" 1 1/2" 2" (Optional)
Connection standard 连接标准	ISO5211 F03、F05
Output axis specification输出轴规格	11*11 9*9 (Optional)
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12-24V
Input signal 输入信号	4-20mA 0-5V 0-10V 1-5V 2-10V RS485 (Optional)
Output signal输出信号	4-20mA 1-5V 0-10V 2-10V (Optional)
Working current 工作电流	≤1.5A
Open/close time 开关时间	≤12S
Life time 寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	UPVC
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM/EPDM & PTFE
Torque force 扭力	15 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 ~ 55°C
Manual operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



A150-M

Assemble Diagram 组装图



DESCRIPTION	D1/D2	d1±0.3	L1±1	L2/L3±1	H1±1	H2	D1/D2			
15-P2-B	1/2"	15	107	22.3	136.7	27.5	21.54	20.30	22.4	22.40
20-P2-B	3/4"	20	115	25.5	141.2	32	26.87	25.30	26.45	26.40
25-P2-B	1"	25	129	28.6	156.25	37.25	33.65	32.30	32.55	34.50
32-P2-B	1 1/4"	32	144	32	162.4	42.75	42.42	40.30	38.60	42.50
40-P2-B	1 1/2"	40	161	35	174	50	48.56	50.30	48.70	48.60
50-P2-B	2"	50	173	38	194.4	60	60.63	63.30	60.80	60.60
					ANSI			DIN	JIS	CNS

A150-M Series 2 Way SS304 Modulating Electric Ball Valve

A150-M系列两通不锈钢电动比例调节阀

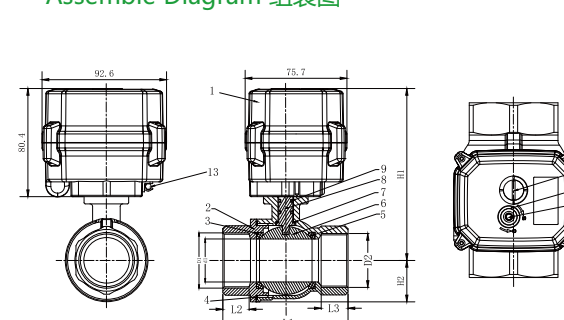
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1 1/4" 1 1/2" 2" (Optional)
Connection standard 连接标准	ISO5211 F03、F05
Output axis specification输出轴规格	11*11 9*9 (Optional)
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12-24V
Input signal 输入信号	4-20mA 0-5V 0-10V 1-5V 2-10V RS485 (Optional)
Output signal输出信号	4-20mA 1-5V 0-10V 2-10V (Optional)
Working current 工作电流	≤1.5A
Open/close time 开关时间	≤12S
Life time 寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	SS304 SS316 (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM & PTFE
Torque force 扭力	15 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 operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



A150-M

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Stainless Steel	304	1
3	O-ring	FKM		2
4	Sealing Gasket	PTFE		1
5	Valve Seat	PTFE		2
6	Ball	Stainless Steel	304	1
7	Gasket	PTFE		1
8	Valve Stem	Stainless Steel	304	1
9	O-ring	FKM		2
10	Manual Shaft	Stainless Steel	303	1
11	Oil-seal	NBR		1
12	Indicator	PC		1
13	Hexagon Wrench	Stainless Steel	303	1

DESCRIPTION	D1/D2	d1±0.3	L1±1	L2/L3±1	E1±0.5	H1±1	H2
32-S2-B	1 1/4"	32	102	25	47	125.4	31
40-S2-B	1 1/2"	38	114	26	54	132.4	36
50-S2-B	2"	49	130	27	66	140.4	44.5

A150-T Series 3 Way UPVC Electric Ball Valve

A150-T系列三通UPVC电动球阀

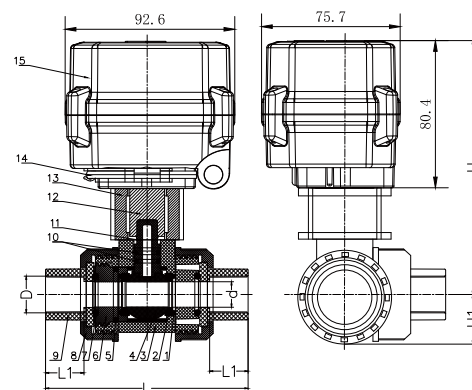
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP/No Thread Glued Type 1/2" 3/4" 1" 1 1/4" 1 1/2" 2" (Optional)
Connection standard 连接标准	ISO5211 F03、F05
Output axis specification输出轴规格	11*11 9*9
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V AC24V DC12-24V AC110-230V (Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR303 CR305 CR306 CR501 CR502 CR702 CR703 CR706 (Optional)
Working current 工作电流	≤1.5A
Open/close time 开关时间	≤12S
Life time 寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	UPVC
Actuator material 执行器材质	PPO
Sealing material 密封材料	EPDM /FKM& PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	15 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 ~ 55°C
Manual operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



A150-T

Assemble Diagram 组装图



DESCRIPTION	D1/D2	d±0.3	L±1	L1±1	H±1	H1
15-P3-B	1/2"	14	137	22	133.4	30
20-P3-B	3/4"	22	172	23	145.4	38.5
25-P3-B	1"	25	200	28	148.4	46
32-P3-B	1 1/4"	25	205	32	148.4	46
40-P3-B	1 1/2"	38	240	35	172.4	65
50-P3-B	2"	38	246	38	172.4	65

Components 组成

No.	Name	Material	Specification	Quantity
1	O-ring	EPDM		3
2	Valve Seat	PTFE		4
3	Valve Body	UPVC		1
4	Ball	UPVC		1
5	O-ring	EPDM		3
6	Bonnet	UPVC		3
7	O-ring	EPDM		3
8	Gland	UPVC		3
9	Socket	UPVC		3
10	O-ring	EPDM		2
11	Valve Stem	UPVC		1
12	Coupling	Stainless Steel	304	1
13	Holder	Stainless Steel	304	1
14	Hexagon Wrench	Stainless Steel	304	1
15	Actuator	PPO		1

A150-T Series 3 Way Tri-clamp Electric Ball Valve

A150-T系列三通快装电动阀

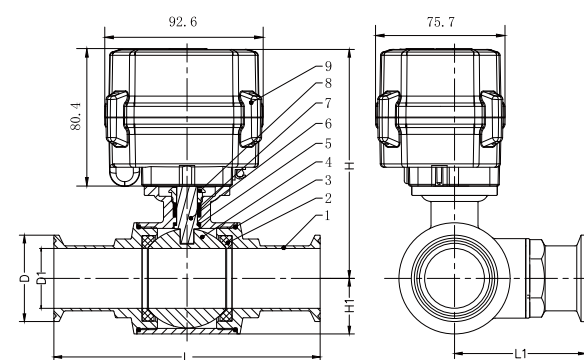
Technical Parameters 技术参数:

Valve size 口径	Ø19 Ø25 Ø32 (Optional)
Connection standard 连接标准	ISO5211 F03、F05
Output axis specification输出轴规格	11*11 9*9
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V AC24V DC12-24V AC110-230V (Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR303 CR305 CR306 CR501 CR502 CR702 CR703 CR705 CR706 (Optional)
Working current 工作电流	≤1.5A
Open/close time 开关时间	≤12S
Life time 寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	SS304 SS316
Actuator material 执行器材质	PPO
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	15 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 operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



A150-T

Assemble Diagram 组装图



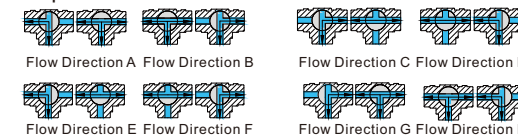
Components 组成

No.	Name	Material	Quantity
1	Valve Body	SS304	1
2	Valve Seat	PTFE	3
3	O-Ring	VMQ	3
4	Ball	SS304	1
5	Gasket	PTFE	1
6	Valve Stem	SS304	1
7	Packing	PTFE	2
8	Packing Gland	SS304	1
9	Actuator	PPO	1

L port



T port



DESCRIPTION	D±0.3	D1±0.3	L±1	L1±1	H±1	H1
19-S3-B	50.5	15.5	108	55.5	121.9	25.25
25-S3-B	50.5	21.8	126	61.5	128.4	25.25
32-S3-B	50.5	28.8	136	67.5	129.9	28

B150-T Series Quick Open High Protection Moistureproof Electric Ball Valve

B150-T 系列快开高防护防潮开关型电动阀

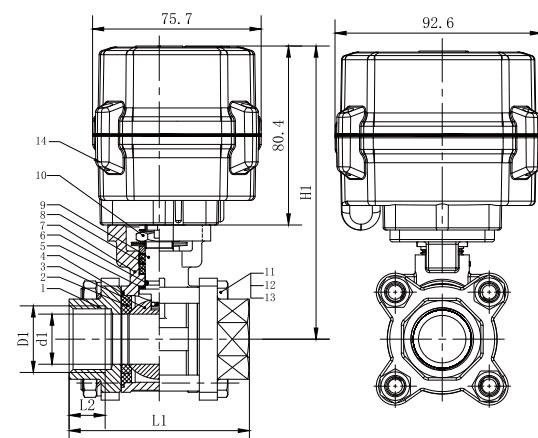
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 2 way 1/2" 3/4" 1" 1 1/4" (Optional)
Connection standard 连接标准	ISO5211 F03 / F05
Output axis specification 输出轴规格	Male square 11*11
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V (Optional)
Wiring diagram 接线图	CR201 CR501 CR303 CR703 (Optional)
Working current 工作电流	≤2A (DC12V) ≤1A (DC24V)
*New Open/close time 开关时间	≤2S
Life time 寿命	50000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	SS304 SS316 (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	15 N.m
Cable specification 线规	UL 2464 22awg 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 operation 手动操作	Yes (Matching hex wrench, use in case of power failure)
Open/close indicator 开关指示	Yes
Locked-rotor current 堵转电流	5A (DC12V) 3.5A (DC24V)
*New Protection class 防护等级	IP68



B150-S23-B

Assemble Diagram 组装图



DESCRIPTION	D1±0.5	d1±1	L1±1	L2±1	H1±1
15-S23-B	1/2"	15	68	14	123.4
20-S23-B	3/4"	20	80	16	127.4
25-S23-B	1"	25	87	17	136.4
32-S23-B	1 1/4"	32	100	18	140.4

Components 组成

No.	Name	Material	Specification	Quantity
1	Bonnet	Stainless Steel	304	2
2	Valve Seat	PTFE		2
3	Ball	Stainless Steel	304	1
4	Sealing Gasket	PTFE		1
5	Gasket	PTFE		1
6	O-Ring	FKM		1
7	Valve Body	Stainless Steel	304	1
8	Packing	PTFE		2
9	Valve Stem	Stainless Steel	304	1
10	Packing Gland	Stainless Steel	304	1
11	Bolt	Stainless Steel	304	4
12	Spring Washer	Stainless Steel	304	4
13	Nut	Stainless Steel	304	4
14	Actuator	PPO		1

A150-T Series 2 Way UPVC Electric Ball Valve

A150-T系列两通UPVC电动球阀

Technical Parameters 技术参数:

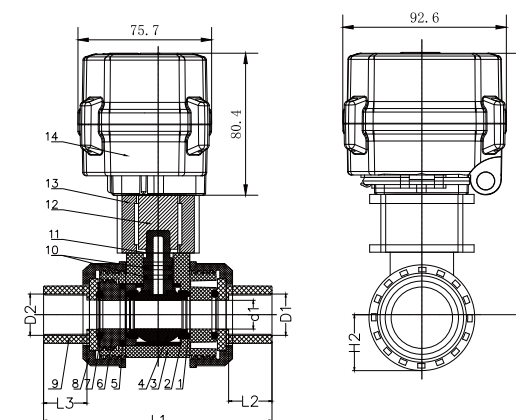
Valve size 口径	NPT/BSP/No Thread Glued Type 1/2" 3/4" 1" 1 1/4" 1 1/2" 2" (Optional)
Connection standard 连接标准	ISO5211 F03, F05
Output axis specification 输出轴规格	11*11 9*9
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V AC24V DC12-24V AC110-230V (Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR303 CR305 CR306 CR501 CR502 CR702 CR703 CR705 CR706 (Optional)
Working current 工作电流	≤1.5A
Open/close time 开关时间	≤12S
Life time 寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	UPVC
Actuator material 执行器材质	PPO
Sealing material 密封材料	FKM/EPDM & PTFE
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	15 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 ~ 55°C
Manual operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



T50-P2-B

Components 组成

No.	Name	Material	Quantity
1	O-ring	EPDM/VITON	2
2	Valve Seat	PTFE	2
3	Valve Body	UPVC	1
4	Ball	UPVC	1
5	O-ring	EPDM/VITON	2
6	Bonnet	UPVC	2
7	O-ring	EPDM/VITON	2
8	Gland	UPVC	2
9	Socket	UPVC	2
10	O-ring	EPDM/VITON	2
11	Valve Stem	UPVC	1
12	Coupling	PA/304	1
13	Holder	PA/304	1
14	Actuator	PPO	1



DESCRIPTION	D1/D2	d1±0.3	L1±1	L2/L3±1	H1±1	H2	D1/D2			
15-P2-B	1/2"	15	107	22.3	136.7	27.5	21.54	20.30	22.4	22.40
20-P2-B	3/4"	20	115	25.5	141.2	32	26.87	25.30	26.45	26.40
25-P2-B	1"	25	129	28.6	156.25	37.25	33.65	32.30	32.55	34.50
32-P2-B	1 1/4"	32	144	32	162.4	42.75	42.42	40.30	38.60	42.50
40-P2-B	1 1/2"	40	161	35	174	50	48.56	50.30	48.70	48.60
50-P2-B	2"	50	173	38	194.4	60	60.63	63.30	60.80	60.60
							ANSI	DIN	JIS	CNS

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.tonheflow.com

A150-T Series UPVC Electric Flange Valve

A150-T系列UPVC电动法兰阀

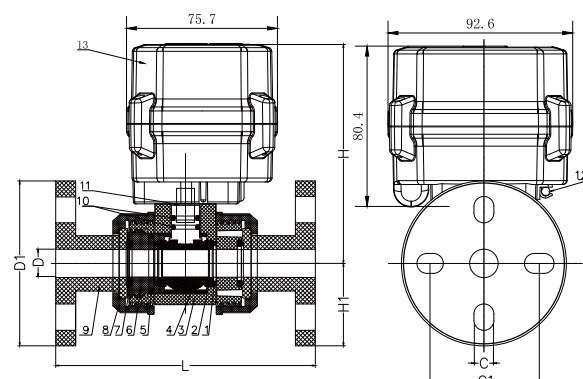
Technical Parameters 技术参数:

Valve size 口径	DN15 DN20 DN25 DN32 DN40 DN50 (Optional)
Connection standard 连接标准	ISO5211 F03、F05
Output axis specification 输出轴规格	11*11 9*9
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air
Rated voltage 额定电压	DC12V DC24V AC24V DC12-24V AC110-230V (Optional)
Wiring diagram 接线图	CR201 CR202 CR301 CR303 CR305 CR306 CR501 CR502 CR702 CR703 CR705 CR706 (Optional)
Working current 工作电流	≤1.5A
Open/close time 开关时间	≤12S
Life time 寿命	70000 times (testing pressure is 0.4MPa, medium is water)
Valve body material 阀材质	UPVC
Actuator material 执行器材质	PPO
Sealing material 密封材料	EPDM/FKM & PTFE (Optional)
Actuator rotation 执行器旋转角度	90°
Torque force 扭力	15 N.m
Cable Length 线长	0.5m ,1.5m (Optional)
Environment temperature 环境温度	-15℃ ~ 50℃
Liquid temperature 液体温度	2℃ ~ 55℃
Manual operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



A150-T

Assemble Diagram 组装图



DESCRIPTION	D±0.3	D1±0.3	L±1	C±0.3	C1±0.3	H±0.3	H1±1
15-P2-B	15	95	146	14	64	116	47.5
20-P2-B	20	104	163	14	71	124	52
25-P2-B	25	118	182	16	83	129	59
32-P2-B	32	139	194	16	93	138	69.5
40-P2-B	40	149	212	18	102	144.5	74.5
50-P2-B	50	164	241	18	122	156.5	82

Components 组成

No.	Name	Material	Quantity
1	O-ring	EPDM/VITON	2
2	Gasket	PTFE	2
3	Valve Body	UPVC	1
4	Ball	UPVC	1
5	O-ring	EPDM/VITON	2
6	Bonnet	UPVC	2
7	O-ring	EPDM/VITON	2
8	Gland	UPVC	2
9	Socket	UPVC	2
10	O-ring	EPDM/VITON	2
11	Valve Stem	UPVC+ Stainless Steel	1
12	Hexagon Wrench	Stainless Steel	1
13	Actuator	PPO	1

Water Leak Protection 防漏水控制器

Product Characteristic 产品特点

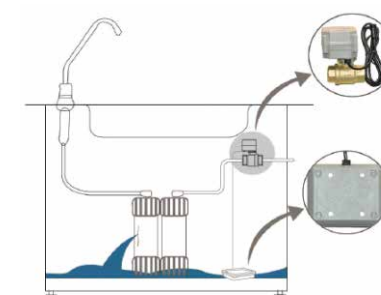


W15-B2-C

- 外形小巧美观 (87*71*29mm)，便于安装。
Small and beautiful shape to install easily.
- 电线采用防水快速接头，拆卸方便。
Using waterproof quick connection,disassemble easily.
- 铜制金属感应器灵敏度高，快速检测漏水并及时关闭阀门。
Brass sensors with high sensitivity,rapid detection and closed valves in time.
- 感应控制器全密封、防潮设计，提高了产品使用寿命。
Fully sealed and moisture-proof design,improve the product's life.
- 控制器面板配有指示图标和手动按键，便于识别及操作（手动按键：电源键，开阀键，关阀键）。
Control panel is easy to operate with indicator icon and manual button.
- 全金属齿轮结构设计，提升了电动球阀的质量。
Metal gears improve the quality of motorized valves.
- *电池供电，电量不足自动报警。
Battery supply,auto alarm when power is lower.

Product Parameter 产品参数

阀体口径: 1/4" 3/8" 1/2" 3/4" 1" 1 1/4"
 Valve Size: 1/4" 3/8" 1/2" 3/4" 1" 1 1/4"
 阀体材质: 黄铜、铜镀镍、不锈钢
 Valve Material: Brass,Nickel Plated Brass,SS304
 工作电压: 3VDC(2节AA, 5号电池)
 Working Voltage: 3VDC(2AA 5# Battery)
 开关时间: 7S
 Open/Closed Time: 7S
 承受压力: 1.0MPa
 Maximum Working Pressure: 1.0MPa



A550 Series 3 Way SS304 Tri-clamp Sanitary Electric Ball Valve

A550系列不锈钢三通快装卫生级电动球阀

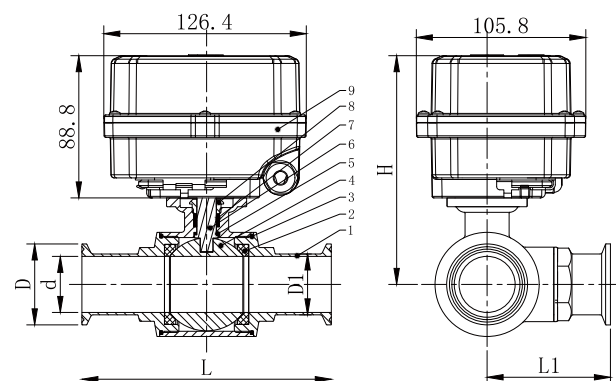
Technical Parameters 技术参数:

Valve size 口径	DN38
Connection standard 连接标准	ISO5211, F05 F07
Output axis specification 输出轴规格	14*14mm
Maximum working pressure 最大介质压力	1.0MPa
Rated voltage 额定电压	DC12V DC24V AC24V AC220V (Optional)
Wiring diagram 接线图	CR201 CR501 CR202 CR502 CR301 CR602 CR303 CR603 CR306 CR606 CR302 CR601 4-20MA (Optional)
Open/close time 开关时间	≤15S
Life time 寿命	30000times (testing pressure is 0.4MPa, medium is water)
Actuator material 执行器材质	PPO
Torque force 扭力	50 N.m
Cable Length 线长	0.5m 1.5m (Optional)
Environment temperature 环境温度	-15°C ~ 55°C
Liquid temperature 液体温度	2°C ~ 90°C
Manual operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



A550-T38-S3-B

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Quantity
1	Valve Body	304	1
2	Valve Seat	PTFE	3
3	O-Ring	FKM	3
4	Ball	304	1
5	Gasket	PTFE	1
6	Valve Stem	304	1
7	Packing	PTFE	2
8	Packing Gland	304	1
9	Actuator	PPO	1

DESCRIPTION	D±0.5	D1±0.5	d±0.5	L±1	L1±1	H1±1
38-S3-B	50.5	38	35	156	110	143

A550 Series 2 Way UPVC Electric Ball Valve

A550系列两通UPVC电动球阀

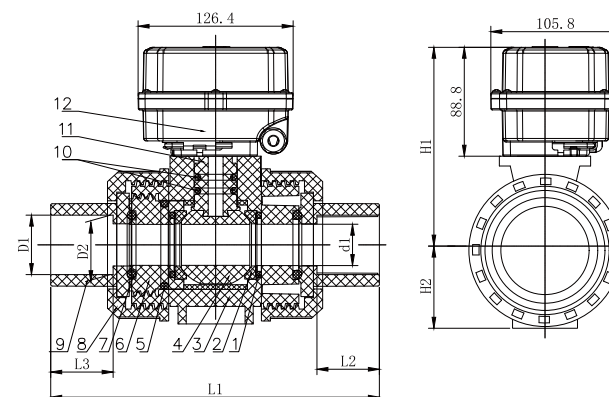
Technical Parameters 技术参数:

Valve size 口径	2" 2 1/2" 3"
Connection standard 连接标准	ISO5211, F05 F07
Output axis specification 输出轴规格	14*14mm
Maximum working pressure 最大介质压力	1.0MPa
Rated voltage 额定电压	DC12V DC24V AC24V AC220V (Optional)
Wiring diagram 接线图	CR201 CR501 CR202 CR502 CR301 CR602 CR303 CR603 CR306 CR606 CR302 CR601 4-20MA (Optional)
Open/close time 开关时间	≤15S
Life time 寿命	30000times (testing pressure is 0.4MPa, medium is water)
Actuator material 执行器材质	PPO
Torque force 扭力	50 N.m
Cable Length 线长	0.5m 1.5m (Optional)
Environment temperature 环境温度	-15°C ~ 55°C
Liquid temperature 液体温度	2°C ~ 55°C
Manual operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



A550-T80-P2-B

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Quantity
1	O-ring	EPDM/VITON	2
2	Valve Seat	PTFE	2
3	Valve body	UPVC	1
4	Ball	UPVC	1
5	O-ring	EPDM/VITON	2
6	Bonnet	UPVC	2
7	O-ring	EPDM/VITON	2
8	Gland	UPVC	2
9	Socket	UPVC	2
10	O-ring	EPDM/VITON	2
11	Valve Stem	UPVC	1
12	Actuator	PPO	1

DESCRIPTION	d1±0.3	L1±1	L2/L3±1	H1±1.5	H2	D1			
80-P2-B	75	271.5	70	282.3	88	89.31	90.3	89.6	89.7
65-P2-B	65	239	46	255.3	76.5	73.88	75.3	76.6	76.7
50-P2-B	50	173	38	213.3	60	60.63	63.6	60.8	60.6
						ANSI	DIN	JIS	CNS
						D2			
						89.31	90.3	89.6	89.7
						73.38	75.3	76.6	76.7
						60.63	63.3	60.8	60.6
						ANSI	DIN	JIS	CNS

A550 Series 3 Way SS304 Electric Ball Valve

A550系列三通不锈钢电动球阀

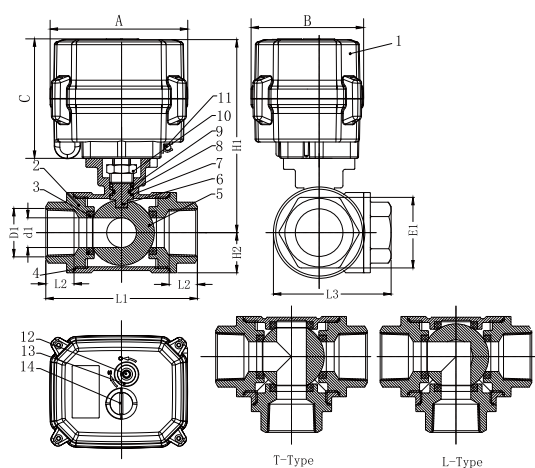
Technical Parameters 技术参数:

Valve size 口径	1 1/4" 1 1/2" 2"
Connection standard 连接标准	ISO5211, F05 F07
Output axis specification 输出轴规格	14*14mm
Maximum working pressure 最大介质压力	1.0MPa
Rated voltage 额定电压	DC12V DC24V AC24V AC220V (Optional)
Wiring diagram 接线图	CR201 CR501 CR202 CR502 CR301 CR602 CR303 CR603 CR306 CR606 CR302 CR601 4-20MA (Optional)
Open/close time 开关时间	≤15S
Life time 寿命	30000times (testing pressure is 0.4MPa, medium is water)
Actuator material 执行器材质	PPO
Torque force 扭力	50 N.m
Cable Length 线长	0.5m 1.5m (Optional)
Environment temperature 环境温度	-15°C ~ 55°C
Liquid temperature 液体温度	2°C ~ 90°C
Manual operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



A550-T40-S3-B

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	stainless steel	304	1
3	Valve Seat	PTFE		4
4	Sealing Gasket	PTFE		3
5	Ball	stainless steel	304	1
6	Valve Stem	stainless steel	304	1
7	Gasket	PTFE		1
8	Oil-seal	FKM		1
9	Packing	PTFE		2
10	Packing Gland	stainless steel	304	1
11	Hexagon wrench	stainless steel	303	1
12	Manual Shaft	stainless steel	303	1
13	Oil-seal	NBR		1
14	Indicator	PC		1

DESCRIPTION	A	B	C	D1	d1±0.3	L1±1	L2±1	E1±0.5	H1±1	H2	L3
32-S3-B	126.4	105.8	88.8	1 1/4"	25	114	25	48	148	33	90
40-S3-B	126.4	105.8	88.8	1 1/2"	32	132	30.5	54	161	39	105
50-S3-B	126.4	105.8	88.8	2"	38	145	31.5	48	166	44.5	115

A550 Series 2 Way 3-pieces SS304 Electric Ball Valve

A550系列两通三片式不锈钢电动球阀

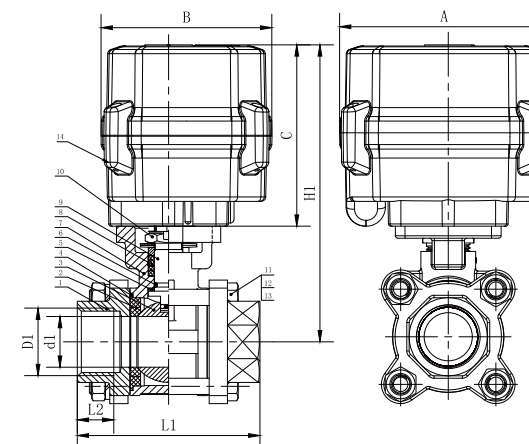
Technical Parameters 技术参数:

Valve size 口径	1 1/4" 1 1/2" 2" 2 1/2" 3"
Connection standard 连接标准	ISO5211, F05 F07
Output axis specification 输出轴规格	4*14mm
Maximum working pressure 最大介质压力	1.0MPa
Rated voltage 额定电压	DC12V DC24V AC24V AC220V (Optional)
Wiring diagram 接线图	CR201 CR501 CR202 CR502 CR301 CR602 CR303 CR603 CR306 CR606 CR302 CR601 4-20MA (Optional)
Open/close time 开关时间	≤15S
Life time 寿命	30000times (testing pressure is 0.4MPa, medium is water)
Actuator material 执行器材质	PPO
Torque force 扭力	50 N.m
Cable Length 线长	0.5m 1.5m (Optional)
Environment temperature 环境温度	-15°C ~ 55°C
Liquid temperature 液体温度	2°C ~ 90°C
Manual operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



A550-T65-S23-B

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Bonnet	Stainless Steel	304	2
2	Valve Seat	PTFE		2
3	Ball	Stainless Steel	304	1
4	Sealing Gasket	PTFE		2
5	Gasket	PTFE		1
6	O-Ring	FKM		1
7	Valve Body	Stainless Steel	304	1
8	Packing	PTFE		2
9	Valve Stem	Stainless Steel	304	1
10	Packing Gland	Stainless Steel	304	1
11	Bolt	Stainless Steel	304	4
12	Spring Washer	Stainless Steel	304	4
13	Nut	Stainless Steel	304	4
14	Actuator	PPO		1

DESCRIPTION	A	B	C	D1	d1±0.5	L1±2	L2±1	H1±2
32-S23-B	126.4	105.8	88.8	1 1/4"	32	100	18	148.8
40-S23-B	126.4	105.8	88.8	1 1/2"	38	109	22	160.8
50-S23-B	126.4	105.8	88.8	2"	49	134	27	167.8
65-S23-B	126.4	105.8	88.8	2 1/2"	65	165	34	184.8
80-S23-B	126.4	105.8	88.8	3"	80	192.5	38	197.8

A550 Series SS304 Tri-clamp Electric Electric Butterfly Valve A550系列不锈钢快装蝶阀

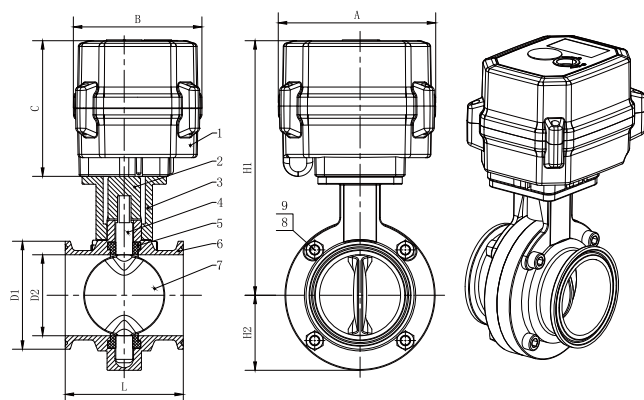
Technical Parameters 技术参数:

Valve size 口径	T51 T57 T63 T76
Connection standard 连接标准	ISO5211, F05 F07
Output axis specification 输出轴规格	14*14mm
Maximum working pressure 最大介质压力	1.0MPa
Rated voltage 额定电压	DC12V DC24V AC24V AC220V (Optional)
Wiring diagram 接线图	CR201 CR501 CR202 CR502 CR301 CR602 CR303 CR603 CR306 CR606 CR302 CR601 4-20MA (Optional)
Open/close time 开关时间	≤15S
Life time 寿命	30000times (testing pressure is 0.4MPa, medium is water)
Actuator material 执行器材质	PPO
Torque force 扭力	50 N.m
Cable Length 线长	0.5m 1.5m (Optional)
Environment temperature 环境温度	-15°C ~ 55°C
Liquid temperature 液体温度	2°C ~ 90°C
Manual operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



A550-T63-SD-B

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Coupling	stainless steel	304	1
3	Holder	stainless steel	304	1
4	Valve Stem	stainless steel	304	1
5	Valve Seat	EPDM		1
6	Valve Body	stainless steel	304	1
7	Valve plate	stainless steel	304	1
8	Bolt	stainless steel	304	4
9	Nut	stainless steel	304	4

DESCRIPTION	A	B	C	L±1	D1±0.5	D2±1	H1±2	H2±1
T51-SD-B	126.4	105.8	88.8	70	64	48	159.3	44.5
T57-SD-B	126.4	105.8	88.8	66	77.5	53	168.8	50
T63-SD-B	126.4	105.8	88.8	80	77.5	59	172.8	55
T76-SD-B	126.4	105.8	88.8	76	91	72	180.8	62

A550 Series 3 Way SS304 Tri-clamp Electric Ball Valve A550系列三通不锈钢快装电动球阀

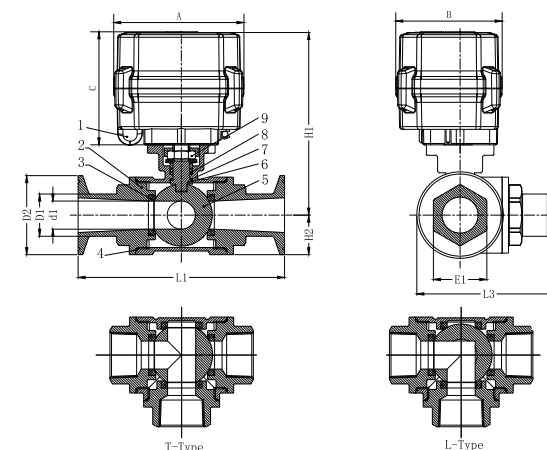
Technical Parameters 技术参数:

Valve size 口径	1 1/4" 1 1/2"
Connection standard 连接标准	ISO5211, F05 F07
Output axis specification 输出轴规格	14*14mm
Maximum working pressure 最大介质压力	1.0MPa
Rated voltage 额定电压	DC12V DC24V AC24V AC220V (Optional)
Wiring diagram 接线图	CR201 CR501 CR202 CR502 CR301 CR602 CR303 CR603 CR306 CR606 CR302 CR601 4-20MA (Optional)
Open/close time 开关时间	≤15S
Life time 寿命	30000times (testing pressure is 0.4MPa, medium is water)
Actuator material 执行器材质	PPO
Torque force 扭力	50 N.m
Cable Length 线长	0.5m 1.5m (Optional)
Environment temperature 环境温度	-15°C ~ 55°C
Liquid temperature 液体温度	2°C ~ 90°C
Manual operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



A550-T32-S3-B

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	stainless steel	304	1
3	Valve Seat	PTFE		4
4	Sealing Gasket	PTFE		3
5	Ball	stainless steel	304	1
6	Valve Stem	stainless steel	304	1
7	Stem Gasket	PTFE		1
8	Packing	PTFE		2
9	Packing Gland	stainless steel	304	1

DESCRIPTION	A	B	C	D1±0.3	D2±0.3	d1±0.5	L1±1	E1±0.5	H1±1.5	H2	L3
32-S3-B	126.4	105.8	88.8	33	50.5	25	150	39	147.8	33	108
40-S3-B	126.4	105.8	88.8	39	50.5	32	170	46	161.3	38.5	123

A550 Series SS304 Electric Flange Valve

A550 系列 SS304 电动法兰阀

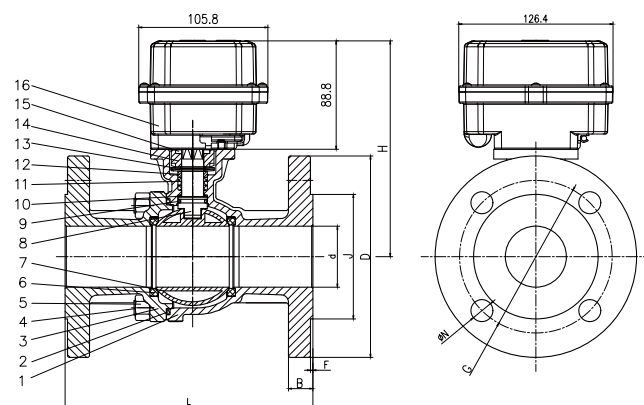
Technical Parameters 技术参数:

Valve size 口径	DN32 DN40 DN50 DN65
Connection standard 连接标准	ISO5211, F05 F07
Output axis specification 输出轴规格	14*14mm
Maximum working pressure 最大介质压力	1.0MPa
Rated voltage 额定电压	DC12V DC24V AC24V AC220V (Optional)
Wiring diagram 接线图	CR201 CR501 CR202 CR502 CR301 CR602 CR303 CR603 CR306 CR606 CR302 CR601 4-20MA (Optional)
Open/close time 开关时间	≤15S
Life time 寿命	30000times (testing pressure is 0.4MPa, medium is water)
Actuator material 执行器材质	PPO
Torque force 扭力	50 N.m
Cable Length 线长	0.5m 1.5m (Optional)
Environment temperature 环境温度	-15°C ~ 55°C
Liquid temperature 液体温度	2°C ~ 90°C
Manual operation 手动操作	Yes
Open/close indicator 开关指示	Yes
Protection class 防护等级	IP67



A550-T65-S2-B

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Quantity
1	Valve Body	CF8	1
2	JOINT GASKET	PTFE	1
3	CAP	CF8	1
4	BOIT	A2-70	4
5	NUT	A2-70	4
6	Valve Seat	PTFE	2
7	BALL	SS304	1
8	Valve Stem	SS304	1
9	O-Ring	FKM	1
10	Thrust Washer	PTFE	1
11	Packing	PTFE	1
12	Gasket	SS304	1
13	Butterfly Spring	SS304	1
14	Gland Bush	CF8	1
15	Spacer	SS304	1
16	Actuator	PPO	1

DESCRIPTION	A	B	C	CALIBER	d±1	L±2	J±1	G±1	F±1	B±1	D±2	H±2	N
T32-S2-B	126.4	105.8	88.8	DN32	32	165	77	100	2	18	140	162.3	4-Ø18
T40-S2-B	126.4	105.8	88.8	DN40	38	165	87	110	2	18	150	169.8	4-Ø18
T50-S2-B	126.4	105.8	88.8	DN50	50	203	101	125	2	20	165	176.8	4-Ø18
T65-S2-B	126.4	105.8	88.8	DN65	65	224	122	145	2	18	187	204.8	4-Ø18
T80-S2-B	126.4	105.8	88.8	DN80	78	243	138	160	2	20	200	210.8	8-Ø18

E20 Series 2 Way Brass Battery Electric Ball Valve

E20系列两通黄铜电池型电动球阀

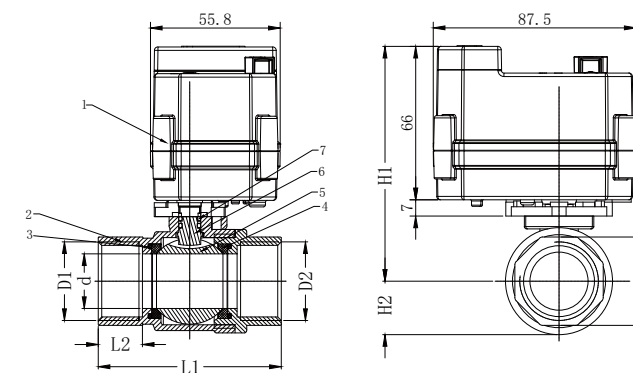
Technical Parameters 技术参数:

Valve 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	1.0MPa
Circulation medium 介质	Fluid, air, water
Rated voltage 额定电压	DC3V(两节五号电池)
Protocol 通信协议	LORAWAN 868 MHZ 915 MHZ
Open/close time 开关时间	≤5S/90°
Life time 工作寿命	70000 times
Valve body material 阀体材质	Brass Nickel plated brass (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材质	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Max.Torque force 最大扭矩	3N.m
Environment temperature 环境温度	-15°C ~ 55°C
Liquid temperature 液体温度	2°C ~ 90°C
Manual override 手动功能	Yes
Indicator 开关指示	Yes
Protection class 防护等级	IP67
Locked-rotor Current 堵转电流	500mA



T20-B2-B

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Quantity
1	Actuator	PPO	1
2	Valve Body	Brass	1
3	O-ring	FKM	2
4	Valve Seat	PTFE	2
5	Ball	SS304	1
6	Valve Stem	Brass	1
7	O-ring	FKM	2

DESCRIPTION	D1/D2	d1±0.3	L1±1	L2±1	E1±0.5	H1±1.5	H2
32-B2-B	1-1/4"	29	80	15	46	117	27
32-B2-B	1 1/4"	25	80	18	46	102	25
25-B2-B	1"	23.5	71.5	16	38	100.5	22
20-B2-B	3/4"	20	65.5	15	31	98.5/100	19
15-B2-B	1/2"	15	57	12	25	95	16
10-B2-B	3/8"	10	50	12	20.5	91.5	12
8-B2-B	1/4"	8	50	12	20.5	91.5	12

E20 Series 2 Way SS304 Battery Electric Ball Valve E20系列两通不锈钢电池型电动球阀

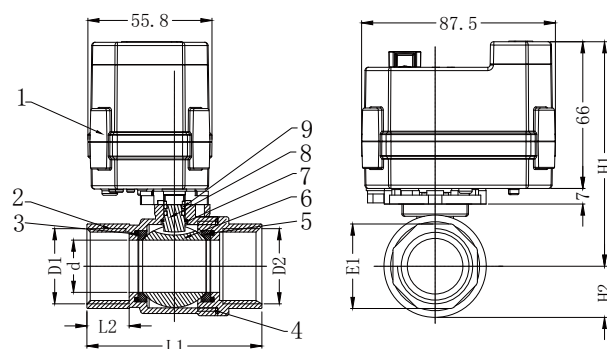
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1/4" 3/8" 1/2" 3/4" 1" (Optional)
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air, water
Rated voltage 额定电压	DC3V(两节五号电池)
Protocol 通信协议	LORAWAN 868 MHZ 915 MHZ
Open/close time 开关时间	≤5S/90°
Life time 工作寿命	70000 times
Valve body material 阀体材质	SS316 SS304 (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材质	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Max.Torque force 最大扭矩	3N.m
Environment temperature 环境温度	-15℃~55℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	Yes
Indicator 开关指示	Yes
Protection class 防护等级	IP67
Locked-rotor Current 堵转电流	500mA



T20-S2-B

Assemble Diagram 组装图



Components 组成

No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	stainless steel	304	1
3	O-ring	FKM		2
4	Sealing Gasket	PTFE		1
5	Valve Seat	PTFE		2
6	Ball	stainless steel	304	1
7	Gasket	PTFE		1
8	Valve Stem	stainless steel	304	1
9	O-ring	FKM		2

DESCRIPTION	D1/D2	d1±0.3	L1±1	L2±1	E1±0.5	H1±1.5	H2
25-S2-B	1"	25	79	18	38	102.5	24.5
20-S2-B	3/4"	20	72	17	31	99.5	20
15-S2-B	1/2"	15	62	14	25	96	17
10-S2-B	3/8"	10	51	12	21	94	14
8-S2-B	1/4"	10	51	12	21	94	14

E22 Series 2 Way Brass Male Thread Battery Electric Ball Valve E22系列两通黄铜外丝电池型电动球阀

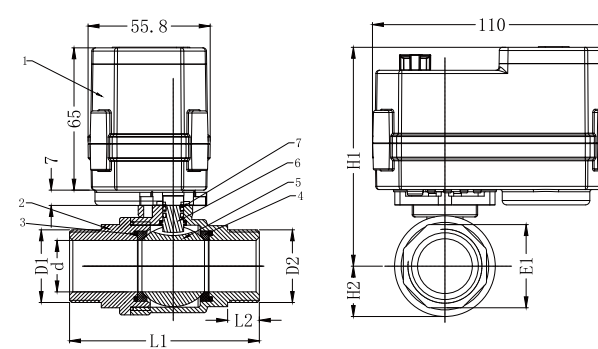
Technical Parameters 技术参数:

Valve size 口径	NPT/BSP 1/2" 3/4" 1" 1 1/4" (Optional)
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air, water
Rated voltage 额定电压	DC5V (ER34615H+capacitor)
Protocol 通信协议	LORAWAN 868 MHZ 915 MHZ
Open/close time 开关时间	≤5S/90°
Life time 工作寿命	70000 times
Valve body material 阀体材质	Brass Nickel plated brass (Optional)
Actuator material 执行器材质	PPO
Sealing material 密封材质	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Max.Torque force 最大扭矩	3N.m
Environment temperature 环境温度	-15℃~55℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	Yes
Indicator 开关指示	Yes
Protection class 防护等级	IP67
Locked-rotor Current 堵转电流	500mA



T25-B2-B

Assemble Diagram 组装图



Components 组成

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

DESCRIPTION	D1/D2	d1±0.2	L1±0.5	L2±1	E1	H1±2	H2±1
15-B2-B	1/2"	15	63	12	23	94	16.5
20-B2-B	3/4"	20	73.5	14	31	97.5	19.5
25-B2-B	1"	24	78	15	38.5	99	22
32-B2-B	1 1/4"	25	87	16	46	101	25

E22 Series 2 Way SS304 Tri-clamp Battery Electric Ball Valve

E22系列两通不锈钢快装电池型电动球阀

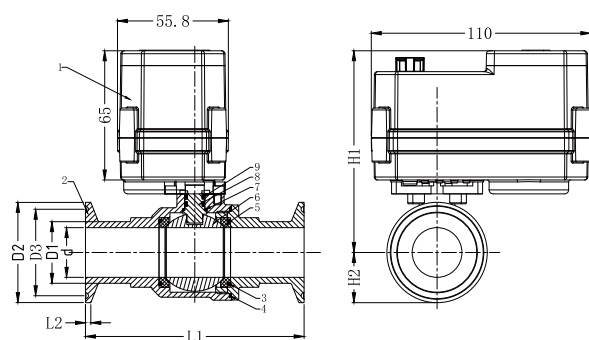
Technical Parameters 技术参数:

Valve size 口径	3/8" 1/2" 3/4" 1" (Optional)
Maximum working pressure 最大工作压力	1.0MPa
Circulation medium 介质	Fluid, air, water
Rated voltage 额定电压	DC5V (ER34615H+capacitor)
Protocol 通信协议	LORAWAN 868 MHZ 915 MHZ
Open/close time 开关时间	≤5S/90°
Life time 工作寿命	70000 times
Valve body material 阀体材质	SS304
Actuator material 执行器材质	PPO
Sealing material 密封材质	FKM & PTFE
Actuator rotation 执行器旋转角度	90°
Max. Torque force 最大扭矩	3N.m
Environment temperature 环境温度	-15℃~55℃
Liquid temperature 液体温度	2℃~90℃
Manual override 手动功能	Yes
Indicator 开关指示	Yes
Protection class 防护等级	IP67
Locked-rotor Current 堵转电流	500mA



T25-S2-B

Assemble Diagram 组装图



Components 组成

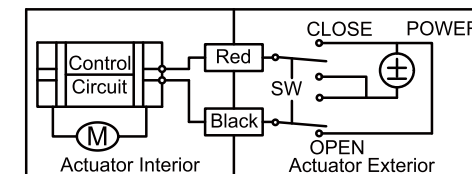
No.	Name	Material	Specification	Quantity
1	Actuator	PPO		1
2	Valve Body	Stainless Steel	304	1
3	O-ring	FKM		2
4	Sealing Gasket	PTFE		1
5	Valve Seat	PTFE		2
6	Ball	Stainless Steel	304	1
7	Gasket	PTFE		1
8	Valve Stem	Stainless Steel	304	1
9	O-ring	FKM		2

DESCRIPTION	d±0.2	D1±0.2	D2±0.2	L1±1	H1±1	H2	D3±0.3	L2±0.2
10-S2-B	9.5	12.7	25.4	75	93.5	14	21	2.85
15-S2-B	15	21	50.5	100	95.5	25.25	43.5	2.85
20-S2-B	20	26	50.5	100	98.5	25.25	43.5	2.85
25-S2-B	25	31	50.5	110	101.5	25.25	43.5	2.85

Wiring Diagram

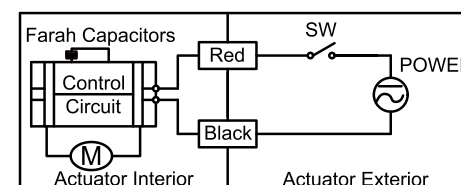
■ CR201 (2 Wires Control)

- 1.Red connect with positive, Black connect with negative, valve CLOSE, maintain after fully closed.
 - 2.Black connect with negative, Red connect with positive, valve OPEN, maintain after fully open.
- * Suitable Working Voltage: DC5V, DC12V, DC24V
* Exceeding the working voltage is forbidden



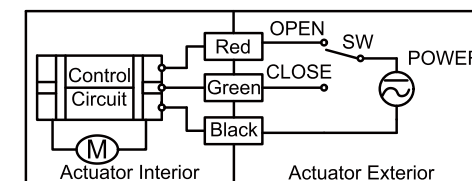
■ CR202 (2 Wires Control, Power Off Reset Function)

- Normally Closed
- 1.Red connect with positive, Black connect with negative.
 - 2.SW CLOSE, valve OPEN, maintain after fully open.
 - 3.SW OPEN, valve CLOSE, maintain after fully closed.
- Normally Open
- 1.Red connect with positive, Black connect with negative.
 - 2.SW CLOSE, valve CLOSE, maintain after fully closed.
 - 3.SW OPEN, valve OPEN, maintain after fully open.
- * Suitable Working Voltage: AC/DC9-24V, AC/DC9-35V, AC/DC110-230V
* Exceeding the working voltage is forbidden



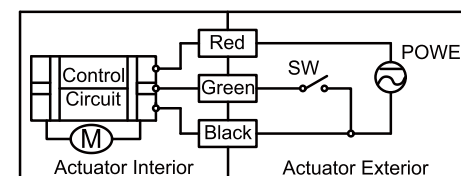
■ CR301 (3 Wires Control)

- 1.Red & Green connect with positive, Black connect with negative.
 - 2.SW connect with Red, valve OPEN, maintain after fully open.
 - 3.SW connect with Green, valve CLOSE, maintain after fully closed.
- * Suitable Working Voltage: DC5V, DC12V, DC24V, DC12-24V, AC/DC110-230V
* Exceeding the working voltage is forbidden



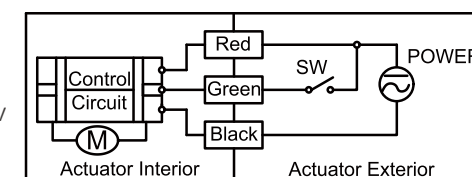
■ CR302 (3 Wires Control)

- 1.Red connect with positive, Black & Green connect with negative.
 - 2.SW CLOSE, valve OPEN, maintain after fully open.
 - 3.SW OPEN, valve CLOSE, maintain after fully closed.
- * Suitable Working Voltage: DC9-35V, DC9-60V, AC/DC12-24V
* Exceeding the working voltage is forbidden



■ CR303 (3 Wires Control)

- 1.Red & Green connect with positive, Black connect with negative.
 - 2.SW CLOSE, valve OPEN, maintain after fully open.
 - 3.SW OPEN, valve CLOSE, maintain after fully closed.
- * Suitable Working Voltage: DC12V, DC24V, DC9-24V, AC/DC9-35V, AC/DC110-230V
* Exceeding the working voltage is forbidden



■ CR305 (3 Wires Control, Power Off Reset Function)

Normally Closed

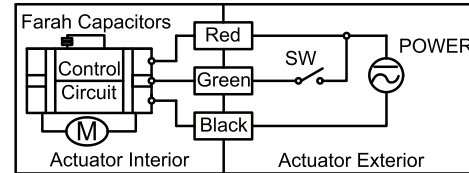
- 1.Red & Green connect with positive, Black connect with negative.
- 2.SW CLOSE, valve OPEN, maintain after fully open.
- 3.SW OPEN, valve CLOSE, maintain after fully closed.
- 4.Valve CLOSE automatically after the external power off.

Normally Open

- 1.Red & Green connect with positive, Black connect with negative.
- 2.SW CLOSE, valve CLOSE, maintain after fully closed.
- 3.SW OPEN, valve OPEN, maintain after fully open.
- 4.Valve OPEN automatically after the external power off.

* Suitable Working Voltage: AC/DC9-24V, AC110-230V

* Exceeding the working voltage is forbidden



■ CR306 (3 Wires Control, Power Off Reset Function)

Normally Closed

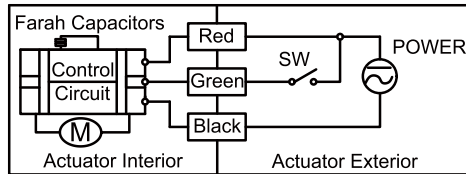
- 1.Red & Green connect with positive, Black connect with negative.
- 2.SW CLOSE, valve CLOSE, maintain after fully closed.
- 3.SW OPEN, valve OPEN, maintain after fully open.
- 4.Valve CLOSE automatically after the external power off.

Normally Open

- 1.Red & Green connect with positive, Black connect with negative.
- 2.SW CLOSE, valve OPEN, maintain after fully open.
- 3.SW OPEN, valve CLOSE, maintain after fully closed.
- 4.Valve OPEN automatically after the external power off.

* Suitable Working Voltage: AC/DC9-24V, AC110-230V

* Exceeding the working voltage is forbidden



■ CR401 (4 Wires Control)

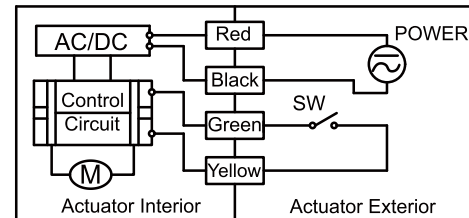
1. Red & Black connect with power, Green & Yellow connect with SW.
2. SW CLOSE, valve OPEN, maintain after fully open.
3. SW OPEN, valve CLOSE, maintain after fully closed.

* Suitable Working Voltage: AC/DC110-230V

* The control line is powered by a DC5V/DC24V voltage. When multiple electric valves are used in parallel, the control lines of the same color must be connected together; otherwise, the electric valves will not work properly

* Green & Yellow can't connect with voltage

* Exceeding the working voltage is forbidden



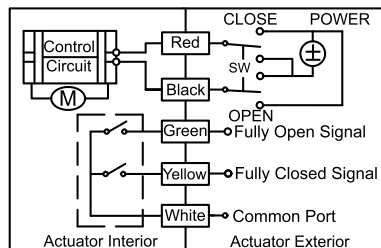
■ CR501 (5 Wires Control, With Feedback Signal)

1. Red connect with positive, Black connect with negative, valve CLOSE, maintain after fully closed, Yellow connect with White.
2. Black connect with positive, Red connect with negative, valve OPEN, maintain after fully open, Green connect with White.

* Suitable Working Voltage: DC5V, DC12V, DC24V

* Exceeding the working voltage is forbidden

* Feedback Signal Load Capacity: 0.3A 24VACDC (Resistive Load)



■ CR502 (5 Wires Control, Power Off Reset Function, With Feedback Signal)

Normally Closed

1. Red connect with positive, Black connect with negative.
2. SW CLOSE, valve OPEN, maintain after fully open, Green connect with White.
3. SW OPEN, valve CLOSE, maintain after fully closed, Yellow connect with White.

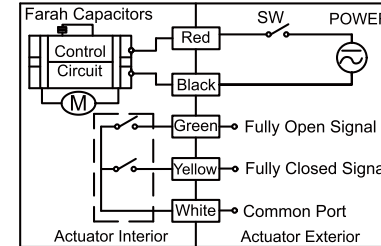
Normally Open

1. Red connect with positive, Black connect with negative.
2. SW CLOSE, valve CLOSE, maintain after fully closed, Yellow connect with White.
3. SW OPEN, valve OPEN, maintain after fully open, Green connect with White.

* Suitable Working Voltage: DC9-35V, DC9-60V, DC12-24V, AC24V, AC110-230V

* Exceeding the working voltage is forbidden

* Feedback Signal Load Capacity: 0.3A 24VACDC (Resistive Load)



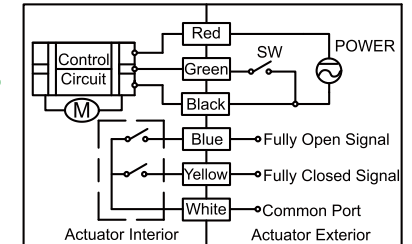
■ CR601 (6 Wires Control, With Feedback Signal)

1. Red connect with positive, Black & Green connect with negative.
2. SW CLOSE, valve OPEN, maintain after fully open, Blue connect with White.
3. SW OPEN, valve CLOSE, maintain after fully closed, Yellow connect with White.

* Suitable Working Voltage: AC/DC12-24V, DC9-35V, DC9-60V

* Exceeding the working voltage is forbidden

* Feedback Signal Load Capacity: 0.3A 24VACDC (Resistive Load)



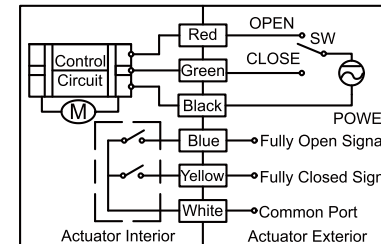
■ CR602 (6 Wires Control, With Feedback Signal)

1. Red & Green connect with positive, Black connect with negative.
2. SW connect with Red, valve OPEN, maintain after fully open, Blue connect with White.
3. SW connect with Green, valve CLOSE, maintain after fully closed, Yellow connect with White.

* Suitable Working Voltage: DC5V, DC12V, DC24V, DC12-24V, AC/DC110-230V

* Exceeding the working voltage is forbidden

* Feedback Signal Load Capacity: 0.3A 24VACDC (Resistive Load)



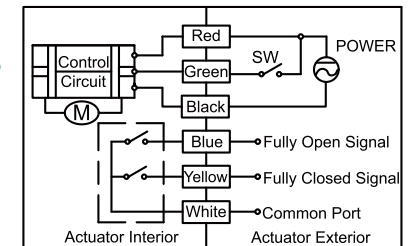
■ CR603 (6 Wires Control, With Feedback Signal)

1. Red & Green connect with positive, Black connect with negative.
2. SW CLOSE, valve OPEN, maintain after fully open, Blue connect with White.
3. SW OPEN, valve CLOSE, maintain after fully closed, Yellow connect with White.

* Suitable Working Voltage: DC12V, DC24V, DC9-24V, AC/DC9-35V, AC110-230V

* Exceeding the working voltage is forbidden

* Feedback Signal Load Capacity: 0.3A 24VACDC (Resistive Load)



■ CR605 (6 Wires Control, Power Off Reset Function, With Feedback Signal)

Normally Closed

1. Red & Green connect with positive, Black connect with negative.
2. SW CLOSE, valve OPEN, maintain after fully open, Blue connect with White.
3. SW OPEN, valve CLOSE, maintain after fully closed, Yellow connect with White.
4. Valve CLOSE automatically after the external power off.

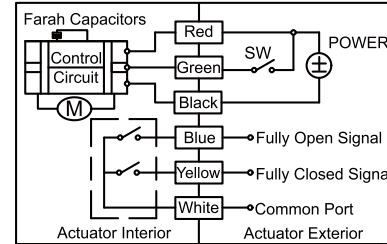
Normally Open

1. Red & Green connect with positive, Black connect with negative.
2. SW CLOSE, valve CLOSE, maintain after fully closed, Yellow connect with White.
3. SW OPEN, valve OPEN, maintain after fully open, Blue connect with White.
4. Valve OPEN automatically after the external power off.

* Suitable Working Voltage: AC24V, DC12-24V

* Exceed the working voltage is forbidden

* Feedback Signal Load Capacity: 0.3A 24VACDC (Resistive Load)



■ CR606 (6 Wires Control, Power Off Reset Function, With Feedback Signal)

Normally Closed

1. Red & Green connect with positive, Black connect with negative.
2. SW CLOSE, valve CLOSE, maintain after fully closed, Yellow connect with White.
3. SW OPEN, valve OPEN, maintain after fully open, Blue connect with White.
4. Valve CLOSE automatically after external power off.

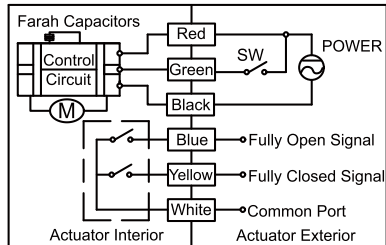
Normally Open

1. Red & Green connect with positive, Black connect with negative.
2. SW CLOSE, valve OPEN, maintain after fully open, Blue connect with White.
3. SW OPEN, valve CLOSE, maintain after fully closed, Yellow connect with White.
4. Valve OPEN automatically after external power off.

* Suitable Working Voltage: AC/DC9-24V, AC/DC110-230V

* Exceed the working voltage is forbidden

* Feedback Signal Load Capacity: 0.3A 24VACDC (Resistive Load)



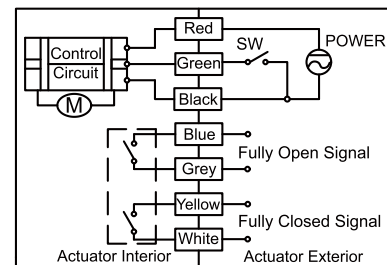
■ CR701 (7 Wires Control, With Feedback Signal)

1. Red connect with positive, Black & Green connect with negative.
2. SW CLOSE, valve OPEN, maintain after fully open, Blue connect with Grey.
3. SW OPEN, valve CLOSE, maintain after fully closed, Yellow connect with White.

* Suitable Working Voltage: DC9-35V, DC9-60V, DC12-24V

* Exceed the working voltage is forbidden

* Feedback Signal Load Capacity: 0.3A 24VACDC (Resistive Load)



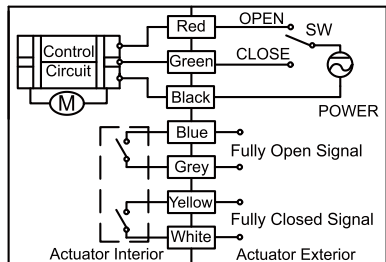
■ CR702 (7 Wires Control, With Feedback Signal)

1. Red & Green connect with positive, Black connect with negative.
2. SW connect with Red, valve OPEN, maintain after fully open, Blue connect with Grey.
3. SW connect with Green, valve CLOSE, maintain after fully closed, Yellow connect with White.

* Suitable Working Voltage: DC5V, DC12V, DC24V, DC12-24V, AC/DC110-230V

* Exceed the working voltage is forbidden

* Feedback Signal Load Capacity: 0.3A 24VACDC (Resistive Load)



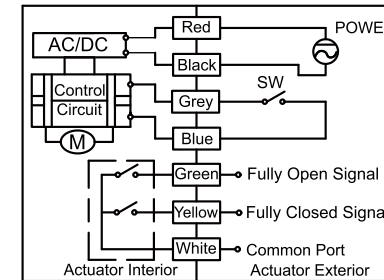
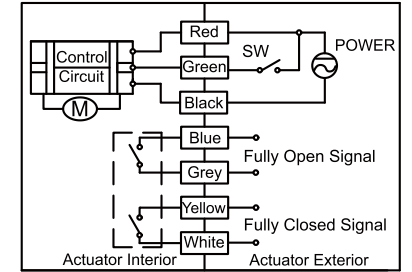
■ CR703 (7 Wires Control, With Feedback Signal)

1. Red & Green connect with positive, Black connect with negative.
2. SW CLOSE, valve OPEN, maintain after fully open, Blue connect with Grey.
3. SW OPEN, valve CLOSE, maintain after fully closed, Yellow connect with White.

* Suitable Working Voltage: DC12V, DC24V, DC9-24V, AC/DC9-35V, AC110-230V

* Exceed the working voltage is forbidden

* Feedback Signal Load Capacity: 0.3A 24VACDC (Resistive Load)



■ CR704 (7 Wires Control, With Feedback Signal)

1. Red & Black connect with power, Grey & Blue connect with SW.
2. SW CLOSE, valve OPEN, maintain after fully open, Green connect with White.
3. SW OPEN, valve CLOSE, maintain after fully closed, Yellow connect with White.

* Suitable Working Voltage: AC/DC110-230V

* Exceed the working voltage is forbidden

* Grey & Blue can't connect with voltage

* Feedback Signal Load Capacity: 0.3A 24VACDC (Resistive Load)

■ CR705 (7 Wires Control, Power Off Reset Function, With Feedback Signal)

Normally Closed

1. Red & Green connect with positive, Black connect with negative.
2. SW CLOSE, valve OPEN, maintain after fully open, Blue connect with Grey.
3. SW OPEN, valve CLOSE, maintain after fully closed, Yellow connect with White.
4. Valve CLOSE automatically after external power off.

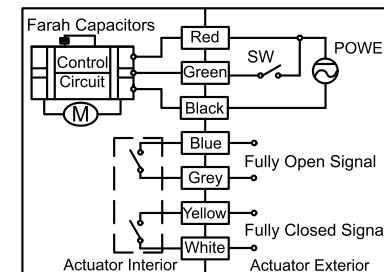
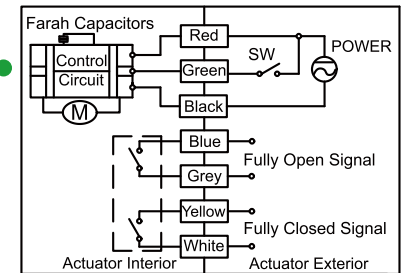
Normally Open

1. Red & Green connect with positive, Black connect with negative.
2. SW CLOSE, valve CLOSE, maintain after fully closed, Yellow connect with White.
3. SW OPEN, valve OPEN, maintain after fully open, Blue connect with Grey.
4. Valve OPEN automatically after external power off.

* Suitable Working Voltage: AC/DC9-24V, AC110-230V

* Exceed the working voltage is forbidden

* Feedback Signal Load Capacity: 0.3A 24VACDC (Resistive Load)



■ CR706 (7 Wires Control, Power Off Reset Function, With Feedback Signal)

Normally Closed

1. Red & Green connect with positive, Black connect with negative.
2. SW CLOSE, valve CLOSE, maintain after fully closed, Yellow connect with White.
3. SW OPEN, valve OPEN, maintain after fully open, Blue connect with Grey.
4. Valve CLOSE automatically after external power off.

Normally Open

1. Red & Green connect with positive, Black connect with negative.
2. SW CLOSE, valve OPEN, maintain after fully open, Blue connect with Grey.
3. SW OPEN, valve OPEN, maintain after fully open, Yellow connect with White.
4. Valve OPEN automatically after external power off.

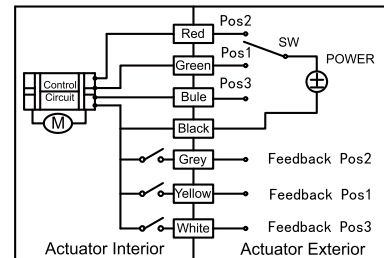
* Suitable Working Voltage: AC/DC9-24V, AC/DC110-230V

* Exceed the working voltage is forbidden

* Feedback Signal Load Capacity: 0.3A 24VACDC (Resistive Load)

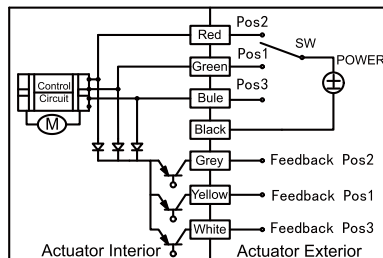
■ CR707 (7 Wires Control, NPN Wet Node Feedback)

1. Red connect with positive, Black connect with negative, valve turn to position 2 and hold.
2. Green connect with positive, Black connect with negative, valve turn to position 1 and hold.
3. Blue connect with positive, Black connect with negative, valve turn to position 3 and hold.
4. Grey & Black connect with position 2 in place signal, connect with negative after valve in place.
5. Yellow & Black connect with position 1 in place signal, connect with negative after valve in place.



■ CR707 (7 Wires Control, PNP Wet Node Feedback)

1. Red connect with positive, Black connect with negative, valve turn to position 2 and hold.
2. Green connect with positive, Black connect with negative, valve turn to position 1 and hold.
3. Blue connect with positive, Black connect with negative, valve turn to position 3 and hold.
4. Grey & Black connect with position 2 in place signal, connect with positive after valve in place.
5. Yellow & Black connect with position 1 in place signal, connect with positive after valve in place.



■ A150-M Series Proportional Valve Wiring Diagram

1. Red connect with positive, Black connect with negative.
 2. Yellow is error output, Yellow & Black connect normally, disconnect after valve locked-rotor.
 3. Green connect with 4-20mA signal input positive, Blue connect with 4-20mA signal input negative.
 4. White connect with 4-20mA signal output positive, Blue connect with 4-20mA signal output negative.
 5. Input 4mA, turn the valve clockwise to fully OPEN; Input 20mA, turn the valve counterclockwise to fully CLOSE.
- * Suitable Signal: 4-20mA, 0-5V, 1-5V, 0-10V, 2-10V
 * Suitable Working Voltage: DC12-24V
 * Exceed the working voltage is forbidden

