

三通球阀

应用

卫生级三通球阀是一种具有优良卫生性能的通用阀门，主要作为管路换向，物料分配等，广泛应用于食品、饮料、制药、精细化工等行业。

性能优点

- ◆ 相对体积较小、密封性能好、操作便捷
- ◆ 采用全通径设计，满足管路系统大流量无流阻的需求。
- ◆ 内腔表面采用精密抛光、满足管路无残留的需求。
- ◆ 底部配有排污接口，可实现阀门内腔在线清洗排污。

结构形式

- ◆ 连接形式：卡式、螺式、法兰式
- ◆ 驱动方式：手动、气动（单作用、双作用）、电动
- ◆ 控制单元：定位器、限位开关、电磁阀

技术参数

- ◆ 产品材质：304或316L
- ◆ 密封材质：标准型：PTFE、EPDM
高温性：PTFE（改性）、FKM
- ◆ 公称直径：DN25-DN100(1"-4")
- ◆ 工作压力：10Bar
- ◆ 工作温度：标准型：-10℃-100℃
高温性：-10℃-180℃
- ◆ 表面处理：内表面：机械抛光 $Ra \leq 0.8\mu m$
外表面：光亮电解



Three-Way Ball Valve

Sanitary three-way ball valve is a kind of universal valve with excellent sanitary performance. It is mainly used for pipeline reversing, material distribution, etc., and is widely used in food, beverage, pharmaceutical, fine chemical and other industries.

Advantages

- ◆ Relatively small size, good sealing performance, simple and convenient operation.
- ◆ Full diameter design is adopted to meet the large flow of pipeline system without flow resistance
- ◆ The inner cavity surface adopts precision polishing to meet the requirement of no residue in the pipeline
- ◆ The bottom is equipped with sewage interface, which can realize the valve cavity, online cleaning sewage.

Structure Form

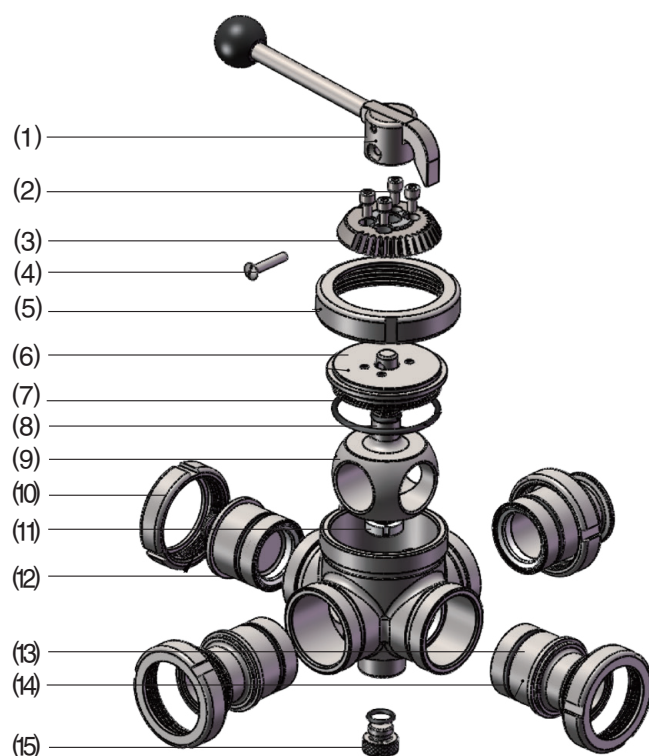
- ◆ Connection: Clamp, Male, Flange
- ◆ Drive mode: manual, pneumatic (single acting, double acting), electric
- ◆ Control unit: locator, limit switch, solenoid valve, etc

Technical Parameter

- ◆ Product material: 304 and 316L
- ◆ Sealing material: Standard type: PTFE and EPDM
High temperature type: PTFE(modified) and FKM
- ◆ DN: DN25-DN100 (1"-4") Working Pressure: 10 bar
- ◆ Working Temp: Standard type: -10℃-100℃
High temperature type: -10℃-180℃
- ◆ Working Temp: Inner surface: MP $Ra \leq 0.8\mu m$
Outside Surface: Bright EP

三通球阀结构

Three-Way Ball Valve Structure



三通球阀结构

序 号	名 称	序 号	名 称
1	手柄组	12	封盖衬套
2	内六角螺钉	13	卡式衬套
3	分度齿盘	14	衬套密封圈
4	螺钉	15	堵头
5	压盖圆螺母		
6	压盖		
7	压盖密封圈		
8	阀轴密封圈		
9	阀芯		
10	接头圆螺母		
11	下轴承		

气动三通球阀控制方向配置

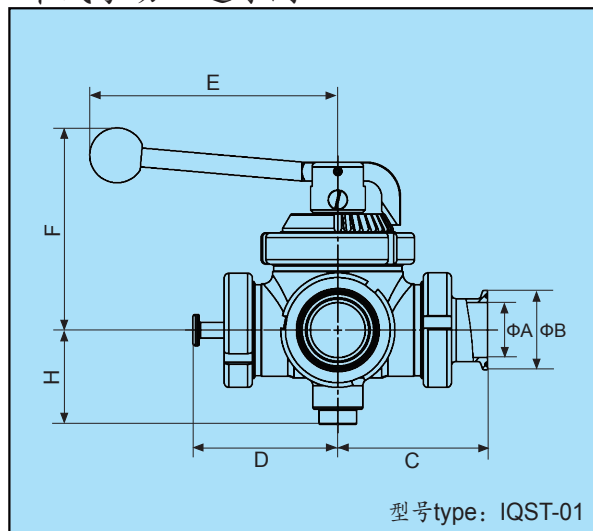
Three-Way Ball Valve Path Control

方案一		方案二	
方案三		方案四	
方案五		方案六	

- 1、方案五采用T型阀芯需配置180度转角气动执行器。
- 2、方案六采用L型阀芯需配置标准90度气动执行器。

卡式手动三通球阀

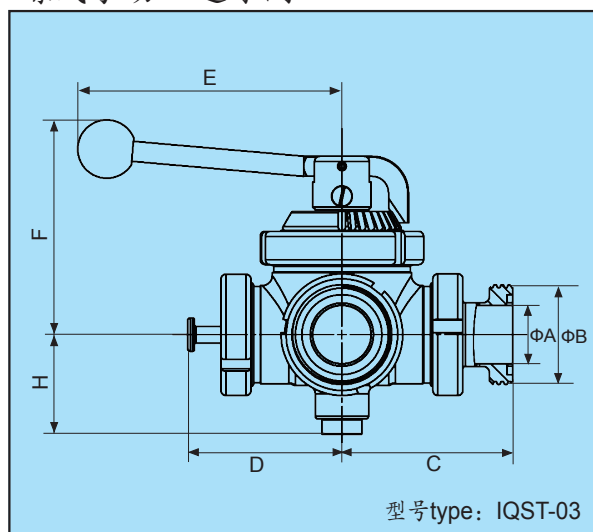
Manual Ferrule Three-Way Ball Valve



规格size	A	B	C	D	H	E	F
1"	22.4	50.5	84	86.5	55	155	119
1.25"	28.8	50.5	89.5	87	55	155	127
1.5"	35.1	50.5	95	93	60	155	134
2"	47.8	64	105.5	106	66.5	155	278
2.5"	59.5	77.5	120	114	71.5	257	167
3"	72.1	91	129.5	124	81.5	257	173
4"	97.6	119	155	141	101	257	187

螺式手动三通球阀

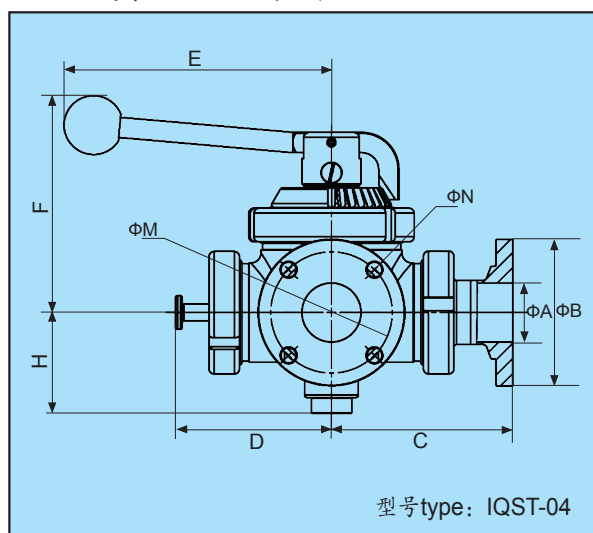
Manual Male Three-Way Ball Valve



规格size	A	B	C	D	H	E	F
1"	22.4	Rd40*1/6"	86.5	86.5	55	155	119
1.25"	28.8	Rd48*1/6"	94.2	87	55	155	127
1.5"	35.1	Rd60*1/6"	102	93	60	155	134
2"	47.8	Rd70*1/6"	118.5	106	66.5	155	278
2.5"	59.5	Rd85*1/6"	129.6	114	71.5	257	167
3"	72.1	Rd98*1/6"	140.5	124	81.5	257	173
4"	97.6	Rd132*1/6"	163.5	141	101	257	187

法兰式手动三通球阀

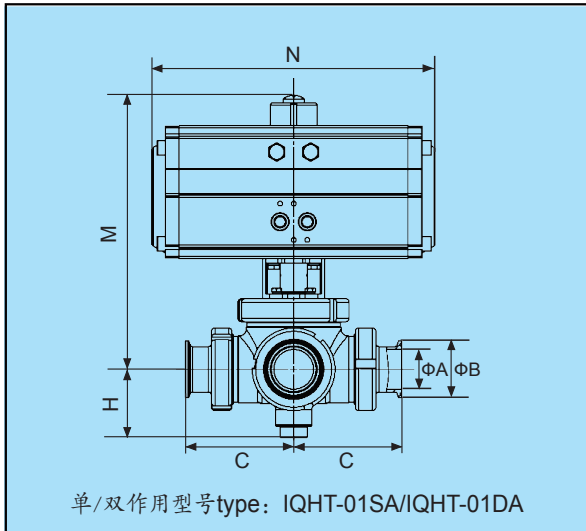
Flange Manual Three-Way Ball Valve



规格size	A	B	C	D	H	E	F	M	N
1"	22.4	79	96.5	86.5	55	155	119	64	4-Φ9
1.25"	28.8	87	102.2	87	55	155	127	72	4-Φ9
1.5"	35.1	87	107	93	60	155	134	72	4-Φ9
2"	47.8	106	123.5	106	66.5	155	278	92	4-Φ9
2.5"	59.5	120	131.5	114	71.5	257	167	102	4-Φ9
3"	72.1	134	141.5	124	81.5	257	173	115	4-Φ11
4"	97.6	166	158.5	141	101	257	187	146	4-Φ11

卡式气动三通球阀

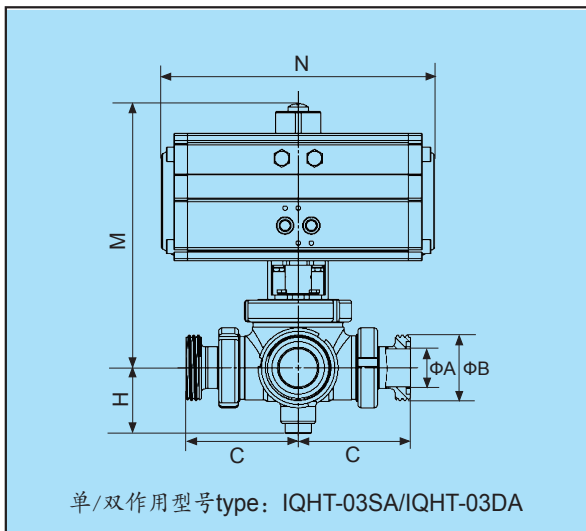
Pneumatic Ferrule Three-Way Ball Valve



规格size	A	B	C	H	M(单)	N(单)	M(双)	N(双)
1"	22.4	50.5	84	55	217	196	205	178
1.25"	28.8	50.5	89.5	55	226	209	205	178
1.5"	35.1	50.5	95	60	241	250	233	209
2"	47.8	64	105.5	66.5	276	275	258	250
2.5"	59.5	77.5	120	71.5	325	326	297	278
3"	72.1	91	129.5	81.5	341	326	312	278
4"	97.6	119	155	101	373	396	355	326

螺式气动三通球阀

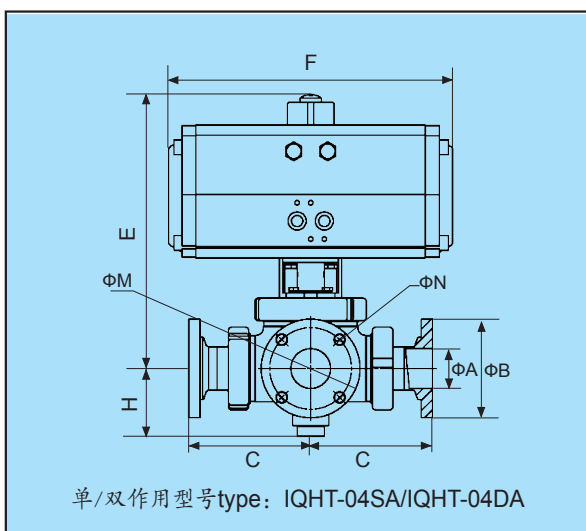
Pneumatic Male Three-Way Ball Valve



规格size	A	B	C	H	M(单)	N(单)	M(双)	N(双)
1"	22.4	Rd40*1/6"	86.5	55	217	196	205	178
1.25"	28.8	Rd48*1/6"	94.2	55	226	209	205	178
1.5"	35.1	Rd60*1/6"	102	60	241	250	233	209
2"	47.8	Rd70*1/6"	118.5	66.5	276	275	258	250
2.5"	59.5	Rd85*1/6"	129.6	71.5	325	326	297	278
3"	72.1	Rd98*1/6"	140.5	81.5	341	326	312	278
4"	97.6	Rd132*1/6"	163.5	101	373	396	355	326

法兰式气动三通球阀

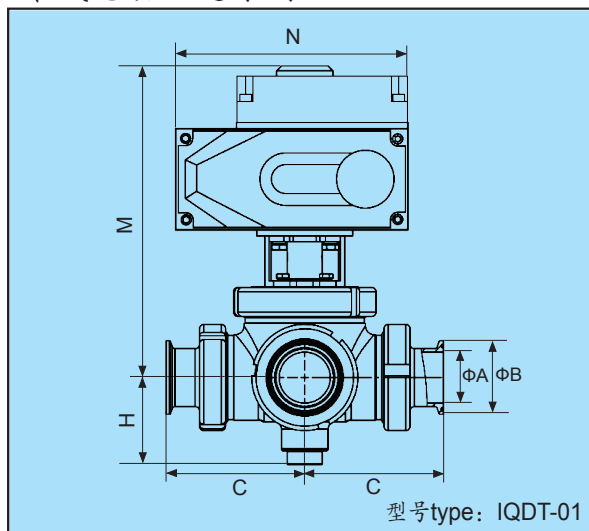
Flange Pneumatic Three-Way Ball Valve



规格size	A	B	C	H	E(单)	F(单)	E(双)	F(双)	M	N
1"	22.4	79	96.5	55	217	196	205	178	64	4-Φ9
1.25"	28.8	87	102.2	55	226	209	205	178	72	4-Φ9
1.5"	35.1	87	107	60	241	250	233	209	72	4-Φ9
2"	47.8	106	123.5	66.5	276	275	258	250	92	4-Φ9
2.5"	59.5	120	131.5	71.5	325	326	297	278	102	4-Φ9
3"	72.1	134	141.5	81.5	341	326	312	278	115	4-Φ11
4"	97.6	166	158.5	101	373	396	355	326	146	4-Φ11

卡式电动三通球阀

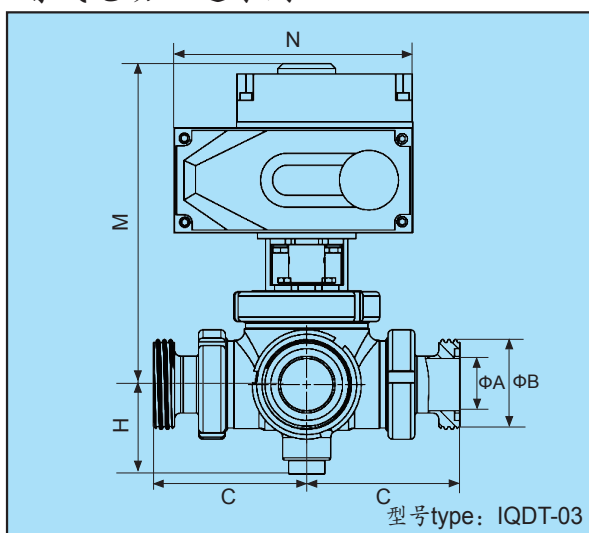
Electric Ferrule Three-Way Ball Valve



规格size	A	B	C	H	M	N
1"	22.4	50.5	84	55	207.5	160
1.25"	28.8	50.5	89.5	55	207.5	160
1.5"	35.1	50.5	95	60	214.5	160
2"	47.8	64	105.5	66.5	245.5	189
2.5"	59.5	77.5	120	71.5	266	189
3"	72.1	91	129.5	81.5	314	268
4"	97.6	119	155	101	328	268

螺式电动三通球阀

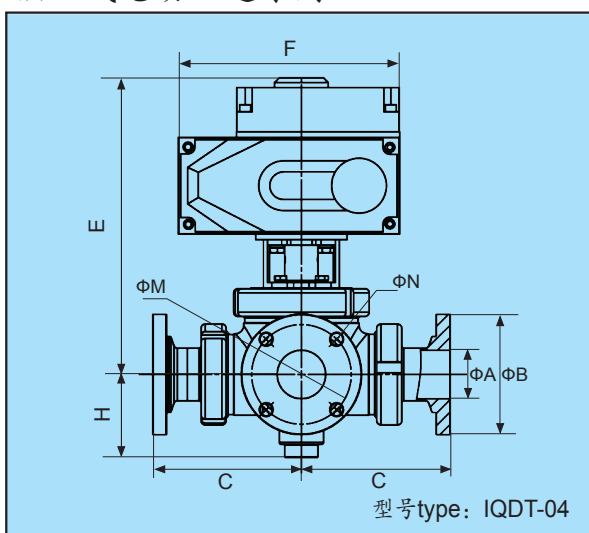
Electric Male Three-Way Ball Valve



规格size	A	B	C	H	M	N
1"	22.4	Rd40*1/6"	86.5	55	207.5	160
1.25"	28.8	Rd48*1/6"	94.2	55	207.5	160
1.5"	35.1	Rd60*1/6"	102	60	214.5	160
2"	47.8	Rd70*1/6"	118.5	66.5	245.5	189
2.5"	59.5	Rd85*1/6"	129.6	71.5	266	189
3"	72.1	Rd98*1/6"	140.5	81.5	314	268
4"	97.6	Rd132*1/6"	163.5	101	328	268

法兰式电动三通球阀

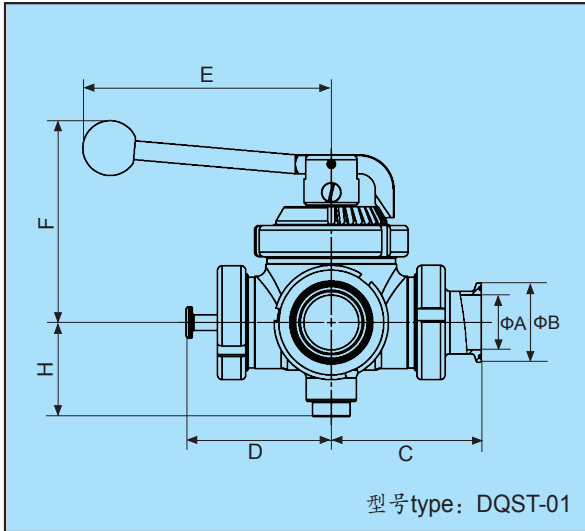
Flange Electric Three-Way Ball Valve



规格size	A	B	C	H	E	F	M	N
1"	22.4	79	96.5	55	207.5	160	64	4-Φ9
1.25"	28.8	87	102.2	55	207.5	160	72	4-Φ9
1.5"	35.1	87	107	60	214.5	160	72	4-Φ9
2"	47.8	106	123.5	66.5	245.5	189	92	4-Φ9
2.5"	59.5	120	131.5	71.5	266	189	102	4-Φ9
3"	72.1	134	141.5	81.5	314	268	115	4-Φ11
4"	97.6	166	158.5	101	328	268	146	4-Φ11

卡式手动三通球阀

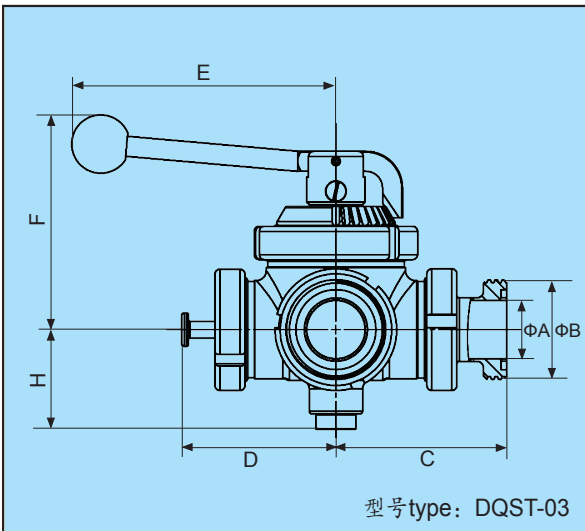
Manual Ferrule Three-Way Ball Valve



规格size	A	B	C	D	H	E	F
DN25	25/26	50.5	93	86.5	55	155	119
DN32	31/32	50.5	98.6	87	55	155	127
DN40	37/38	50.5	95	93	60	155	134
DN50	49/50	64	105.5	106	66.5	155	278
DN65	66	91	134.5	114	71.5	257	167
DN80	81	106	144.5	124	81.5	257	173
DN100	100	119	161.5	141	101	257	187

螺式手动三通球阀

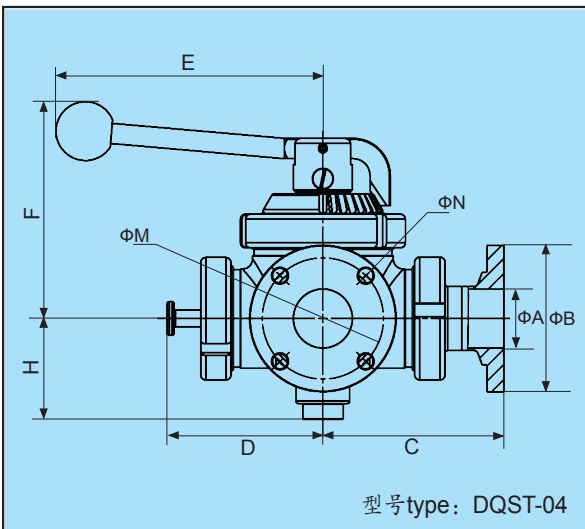
Manual Male Three-Way Ball Valve



规格size	A	B	C	D	H	E	F
DN25	25/26	Rd52*1/6"	93.5	86.5	55	155	119
DN32	31/32	Rd58*1/6"	99.2	87	55	155	127
DN40	37/38	Rd65*1/6"	104	93	60	155	134
DN50	49/50	Rd78*1/6"	121.5	106	66.5	155	278
DN65	66	Rd95*1/6"	131.5	114	71.5	257	167
DN80	81	Rd110*1/4"	151.5	124	81.5	257	173
DN100	100	Rd130*1/4"	163.5	141	101	257	187

法兰式手动三通球阀

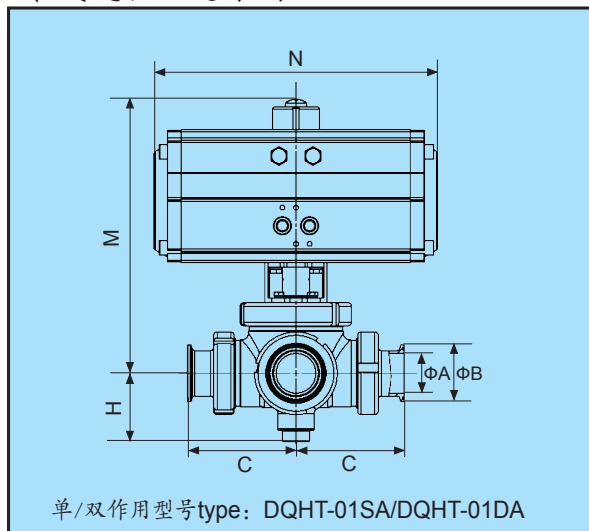
Flange Manual Three-Way Ball Valve



规格size	A	B	C	D	H	E	F	M	N
DN25	25/26	83	95.5	86.5	55	155	119	65	4-Φ9
DN32	31/32	83	101.2	87	55	155	127	66	4-Φ9
DN40	37/38	100	106	93	60	155	134	77	4-Φ9
DN50	49/50	110	122.5	106	66.5	155	278	92	4-Φ9
DN65	66	127	130.5	114	71.5	257	167	110	4-Φ9
DN80	81	142	140.5	124	81.5	257	173	124	6-Φ9
DN100	100	162	157.5	141	101	257	187	144	6-Φ9

卡式气动三通球阀

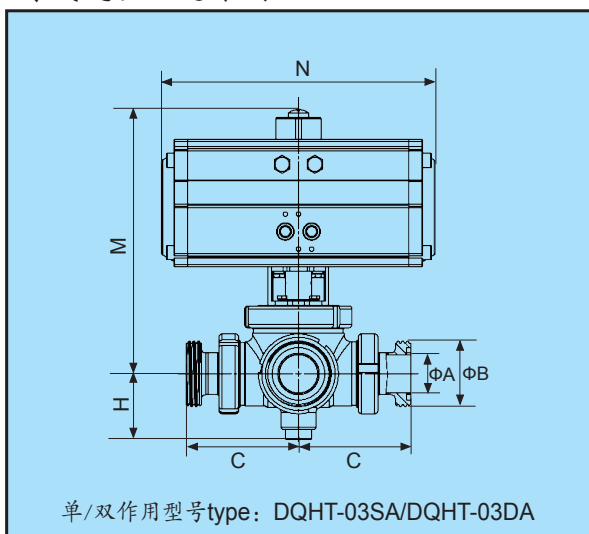
Pneumatic Ferrule Three-Way Ball Valve



规格size	A	B	C	H	M(单)	N(单)	M(双)	N(双)
DN25	25/26	50.5	93	55	217	196	205	178
DN32	31/32	50.5	98.6	55	226	209	205	178
DN40	37/38	50.5	95	60	241	250	233	209
DN50	49/50	64	105.5	66.5	276	275	258	250
DN65	66	91	134.5	71.5	325	326	297	278
DN80	81	106	144.5	81.5	341	326	312	278
DN100	100	119	161.5	101	373	396	355	326

螺式气动三通球阀

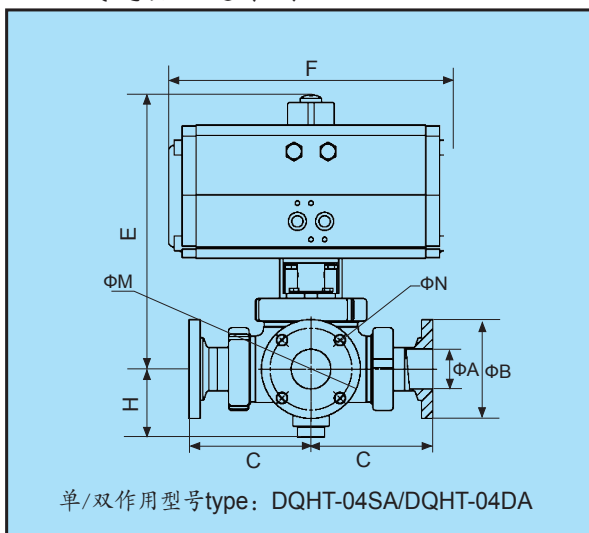
Pneumatic Male Three-Way Ball Valve



规格size	A	B	C	H	M(单)	N(单)	M(双)	N(双)
DN25	25/26	Rd52*1/6"	93.5	55	217	196	205	178
DN32	31/32	Rd58*1/6"	99.2	55	226	209	205	178
DN40	37/38	Rd65*1/6"	104	60	241	250	233	209
DN50	49/50	Rd78*1/6"	121.5	66.5	276	275	258	250
DN65	66	Rd95*1/6"	131.5	71.5	325	326	297	278
DN80	81	Rd110*1/4"	151.5	81.5	341	326	312	278
DN100	100	Rd130*1/4"	163.5	101	373	396	355	326

法兰式气动三通球阀

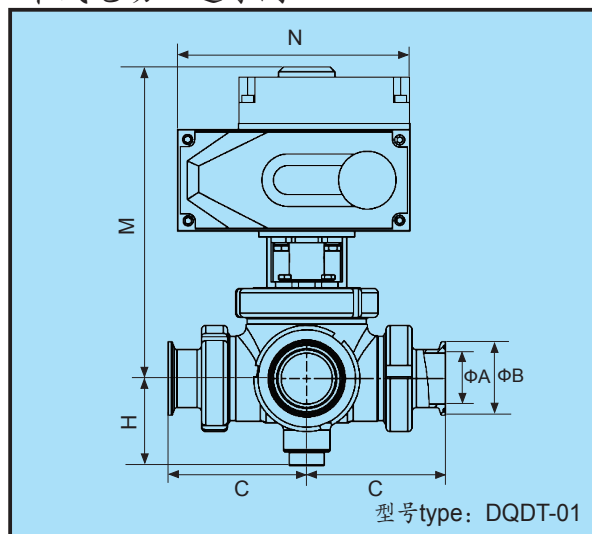
Flange Pneumatic Three-Way Ball Valve



规格size	A	B	C	H	E(单)	F(单)	E(双)	F(双)	M	N
DN25	25/26	83	95.5	55	217	196	205	178	65	4-Φ9
DN32	31/32	83	101.2	55	226	209	205	178	66	4-Φ9
DN40	37/38	100	106	60	241	250	233	209	77	4-Φ9
DN50	49/50	110	122.5	66.5	276	275	258	250	92	4-Φ9
DN65	66	127	130.5	71.5	325	326	297	278	110	4-Φ9
DN80	81	142	140.5	81.5	341	326	312	278	124	8-Φ9
DN100	100	162	157.5	101	373	396	355	326	144	8-Φ9

卡式电动三通球阀

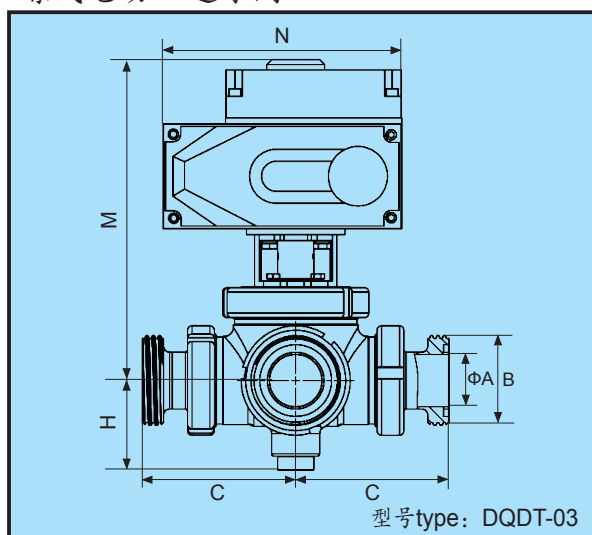
Electric Ferrule Three-Way Ball Valve



规格size	A	B	C	H	M	N
DN25	25/26	50.5	93	55	207.5	160
DN32	31/32	50.5	98.6	55	207.5	160
DN40	37/38	50.5	95	60	214.5	160
DN50	49/50	64	105.5	66.5	245.5	189
DN65	66	91	134.5	71.5	266	189
DN80	81	106	144.5	81.5	314	268
DN100	100	119	161.5	101	328	268

螺式电动三通球阀

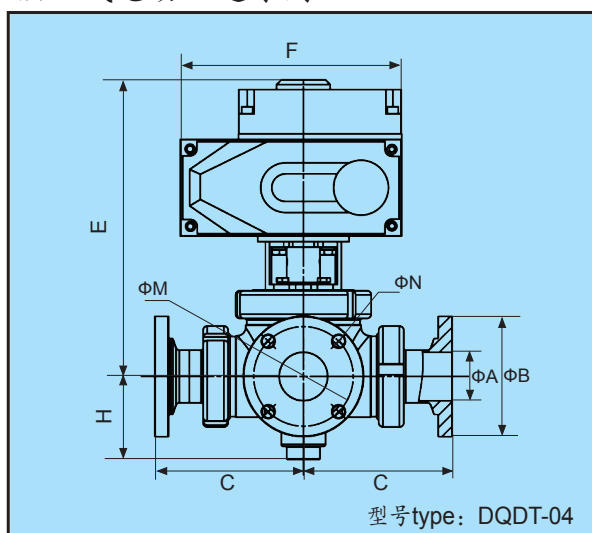
Electric Male Three-Way Ball Valve



规格size	A	B	C	H	M	N
DN25	25/26	Rd52*1/6"	93.5	55	207.5	160
DN32	31/32	Rd58*1/6"	99.2	55	207.5	160
DN40	37/38	Rd65*1/6"	104	60	214.5	160
DN50	49/50	Rd78*1/6"	121.5	66.5	245.5	189
DN65	66	Rd95*1/6"	131.5	71.5	266	189
DN80	81	Rd110*1/4"	151.5	81.5	314	268
DN100	100	Rd130*1/4"	163.5	101	328	268

法兰式电动三通球阀

Flange Electric Three-Way Ball Valve



规格size	A	B	C	H	E	F	M	N
DN25	25/26	83	95.5	55	207.5	160	65	4-Φ9
DN32	31/32	83	101.2	55	207.5	160	66	4-Φ9
DN40	37/38	100	106	60	214.5	160	77	4-Φ9
DN50	49/50	110	122.5	66.5	245.5	189	92	4-Φ9
DN65	66	127	130.5	71.5	266	189	110	4-Φ9
DN80	81	142	140.5	81.5	314	268	124	6-Φ9
DN100	100	162	157.5	101	328	268	144	6-Φ9