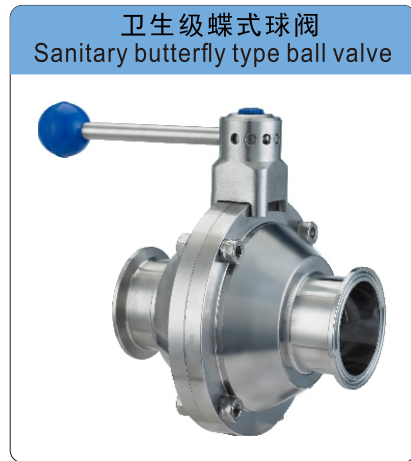
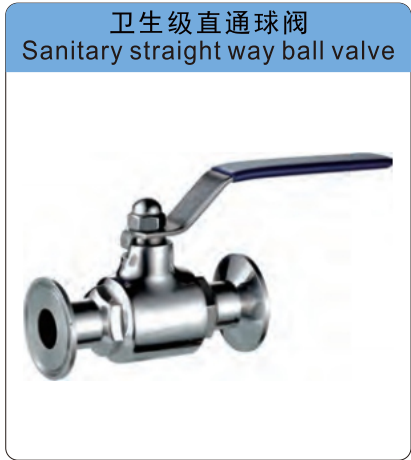




Synopsis 简介

◎ The stainless steel sanitary straight-through ball valve is a fluid control valve with a simple structure and a straight-through channel. It is widely used in clean processes such as food, dairy products, and biopharmaceuticals. The ball is equipped with a full-diameter channel. When opened, the medium flows smoothly and directly, with low resistance and easy cleaning. It meets CIP/SIP requirements and is suitable for sanitary systems that require fast opening and closing and frequent cleaning.

◎ 不锈钢卫生直通球阀是一种结构简洁、通道直线贯通的流体控制阀，广泛应用于食品、乳品、生物制药等洁净工艺中。其球体设有全口径通道，开启时介质顺畅直流通，阻力小、易清洗，符合CIP/SIP要求，适用于需要快速启闭和频繁清洗的卫生级系统。

Description 设计说明

◎ The stainless steel sanitary straight-through ball valve adopts a full-bore straight-through structure to ensure smooth flow of fluid with minimal pressure drop. The inside of the valve body is smooth without dead corners, which is easy to CIP/SIP online cleaning. The ball and the sealing structure are tightly matched and have excellent sealing performance. The connection end can be selected in quick-install, welding or threaded form to meet the installation requirements of different sanitary pipeline systems and meet 3A and other sanitary standards.

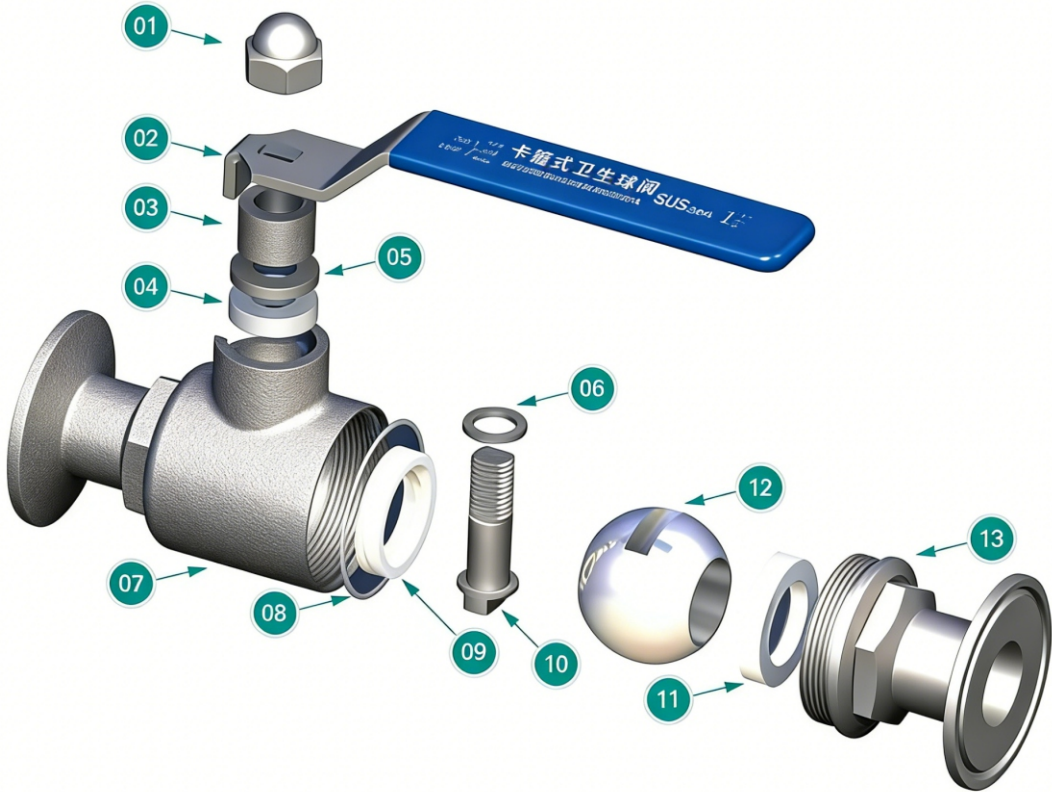
◎ 不锈钢卫生直通球阀采用全口径直通结构，确保流体顺畅通过且压降极小。阀体内部光滑无死角，易于CIP/SIP在线清洗。球体与密封结构紧密配合，具备优异的密封性能。连接端可选快装、焊接或螺纹形式，满足不同卫生管道系统安装需求，符合3A等卫生标准。

Features 特点

- ◎ Full bore design, small flow resistance
- ◎ Smooth inner wall, no dead corners, easy to clean
- ◎ Excellent sealing performance, leak-proof
- ◎ Multiple connection methods (quick-fit, welding, threaded)
- ◎ Suitable for CIP/SIP online cleaning
- ◎ Can be equipped with manual, pneumatic, and electric actuators

- ◎ 全口径设计，流阻小
- ◎ 内壁光滑，无死角，易清洗
- ◎ 密封性能优越，防泄漏
- ◎ 多种连接方式（快装、焊接、螺纹）
- ◎ 适应CIP/SIP在线清洗
- ◎ 可配手动、气动、电动执行器

Straight Ball Valve Figure 直通球阀爆炸图



Parts List			
No.	Description	No.	Description
01	盖形螺母 Cap Nut	09	四氟垫 PTFE Mat
02	手柄 Pull Handle	10	阀杆 Valve Rod
03	衬套 Coat	11	四氟垫 PTFE Mat
04	垫片 Gasket	12	球芯 Ball Core
05	密封垫 SealRing	13	阀芯 Valve Cap
06	平垫 flat gasket		
07	阀体 Valve Body		
08	四氟平垫 PTFE Flat Mat		

Application 应用

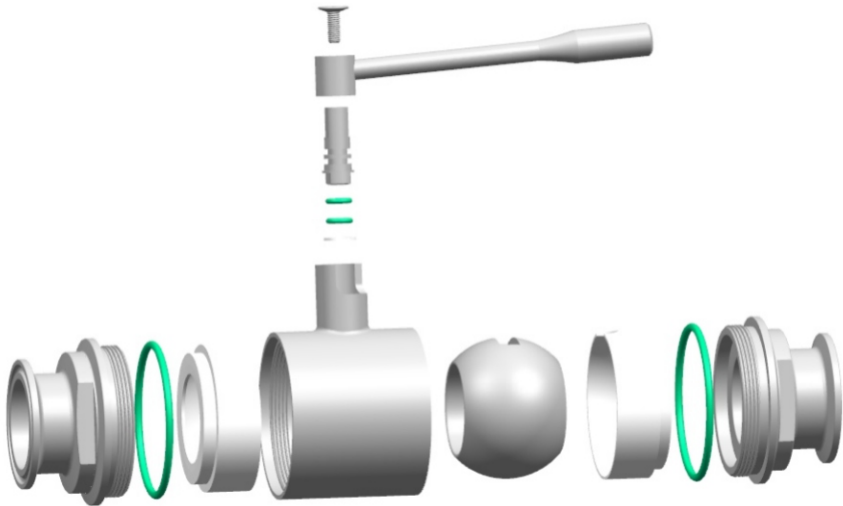
◎ Stainless steel sanitary straight-through ball valves are widely used in food processing, dairy products, beverage production, biopharmaceuticals and cosmetics industries. These fields have extremely high requirements for the hygiene of the pipeline system and the purity of the fluid. The valve has a simple structure and is easy to clean. It meets the CIP/SIP online cleaning standards, effectively prevents pollution, and ensures the safety and stability of the production process.

◎ 不锈钢卫生直通球阀广泛应用于食品加工、乳制品、饮料生产、生物制药和化妆品等行业。这些领域对管道系统的卫生和流体纯净度要求极高。该阀门结构简单、易清洗，满足CIP/SIP在线清洗标准，有效防止污染，确保生产过程的安全与稳定。

Technical design SPEC 技术规格

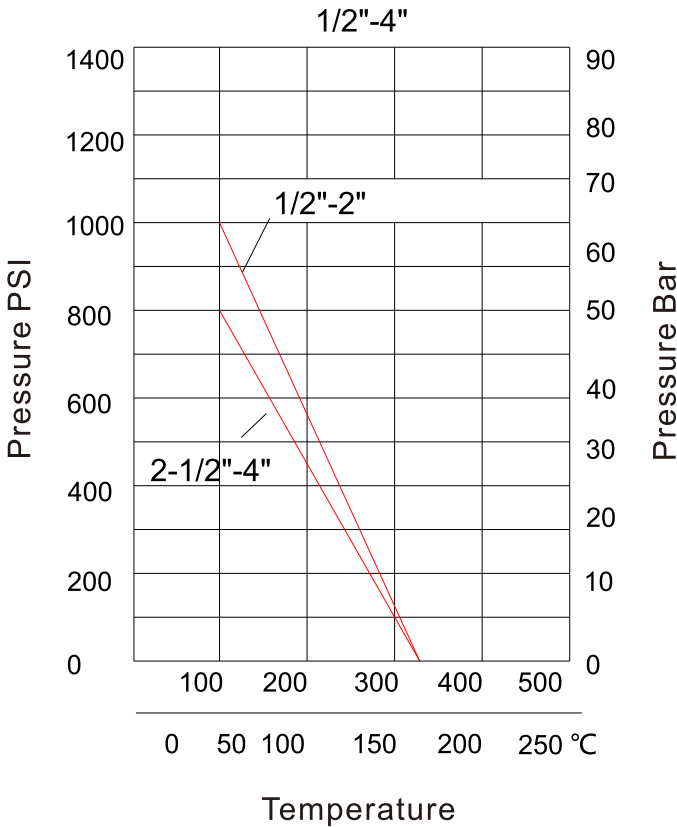
- ◎ Diameter range: DN10 ~ DN100 (1/2" ~ 4")
- ◎ Working pressure: ≤10 bar
- ◎ Working temperature: -10°C ~ 150°C (depending on the sealing material)
- ◎ Connection method: quick-release, welding, thread
- ◎ Ball type: full-diameter ball
- ◎ Drive mode: manual, pneumatic, electric

- ◎ 口径范围: DN10 ~ DN100 (1/2" ~ 4")
- ◎ 工作压力: ≤10 bar
- ◎ 工作温度: -10°C ~ 150°C (视密封材质)
- ◎ 连接方式: 快装、焊接、螺纹
- ◎ 球体类型: 全通径球体
- ◎ 驱动方式: 手动、气动、电动

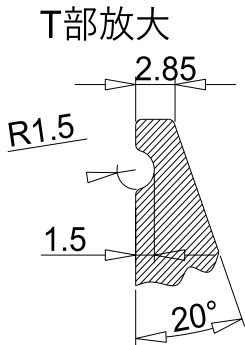
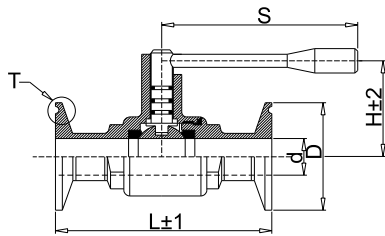


SIZE	1/2"-3/4"	1"/DN25	1.25"/DN32	5"/DN40	2"/DN50	2.5"-3"	DN65	DN80	4"/DN100
N.M	10	15	20	25	35	50	75	95	120

Graph 曲线图

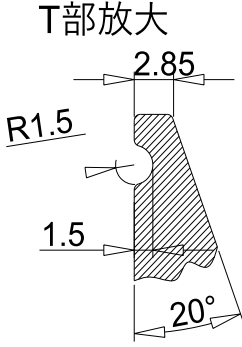
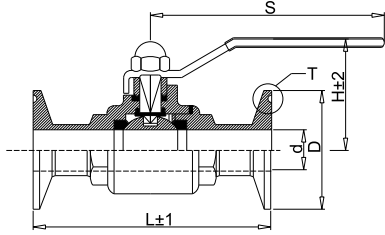


卫生级直通球阀

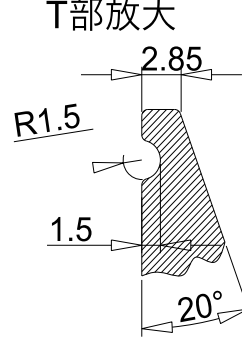
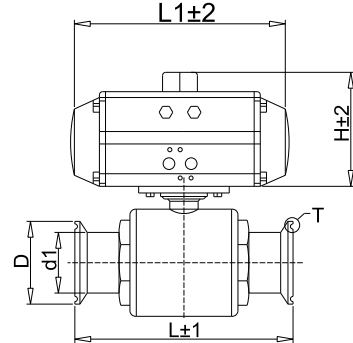


Sanitary Straight Ball Valve JN-ZWBLV 1001					
SIZE	d	D	L	H	S
1/2"	10	25.4	85	40	100
3/4"	16	25.4	100	40	118
1"	22	50.5	120	48	145
1 1/4"	28	50.5	130	50	145
1 1/2"	35	50.5	140	60	160
2"	47.5	64	165	68	160
2 1/2"	60	77.5	190	80	185
3"	72	91	210	94	190
4"	100	119	260	115	245

卫生级直通球阀

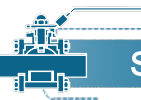


卫生级气动直通球阀



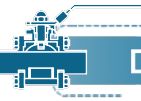
Sanitary Straight Ball Valve JN-ZWBLV 1002					
SIZE	d	D	L	H	S
1/2"	10	25.4	75	41	95
3/4"	17	25.4	100	47	124
1"	22	50.5	120	62	132
1 1/4"	28	50.5	130	66	137
1 1/2"	35	50.5	140	76	154
1 3/4"	42	64	150	84	160
2"	47.5	64	164	91	173
2 1/4"	53	77.5	164	93	173
2 1/2"	60	77.5	190	97	173
3"	72	91	215	106	234
3 1/2"	80	106	225	125	244
4"	100	119	260	164	244
5"	125	145	320	210	350

Sanitary Pneumatic Straight Ball Valve JN-ZWBLV 1003					
SIZE	d	D	L	CYLINDER MODEL	
				SINGLE	DOUBLE
1/2"	10	25.5	75	/	/
3/4"	17	50.5	100	AT52	AT52
1"	22	50.5	120	AT63	AT52
1 1/4"	28	50.5	130	/	/
1 1/2"	35	50.5	140	AT75	AT63
1 3/4"	42	64	150	/	/
2"	47.5	64	164	AT92	AT75
2 1/4"	53	77.5	164	/	/
2 1/2"	60	77.5	190	AT105	AT83
3"	67	91	210	AT125	AT92
3 1/2"	86	16	230	AT125	AT105
4"	100	119	260	AT140	AT125



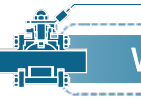
Synopsis 简介

◎ The stainless steel hygienic three-piece ball valve is a three-part hygienic ball valve with a compact structure that is easy to disassemble and clean. The fluid is opened and closed by rotating the ball, and the seal is reliable to prevent leakage. The valve body and inner cavity are mirror-polished to meet the strict requirements of the food, pharmaceutical and other industries for hygiene standards. It is suitable for various clean process piping systems and supports a variety of connection methods to ensure efficient and safe fluid control.



Description 设计说明

◎ The stainless steel sanitary three-piece ball valve consists of three parts of the valve body, which is easy to disassemble and maintain. The ball is rotated to control the fluid on and off, and the sealing performance is excellent. The valve body and the inner cavity are smooth and polished, which meets the sanitary standards and avoids material residue. There are various connection methods, supporting welding or quick installation, to meet different pipeline requirements. The design is compact and easy to operate, suitable for high cleanliness process environment.



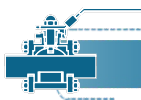
Working principle 工作原理

◎ The stainless steel sanitary three-piece ball valve controls the flow of fluid by rotating the ball. When the handle or actuator rotates the ball 90 degrees, the through hole on the ball is aligned with the pipe, and the medium can flow; reverse rotation closes the channel. The ball fits tightly against the sealing ring to form a reliable seal to prevent leakage. The three-piece structure is easy to disassemble and clean quickly, meeting the requirements of sanitary processes for no dead angles and easy cleaning, and is suitable for systems that are frequently cleaned or maintained.

◎ 不锈钢卫生三片式球阀是一种由三部分组成的卫生级球阀，结构紧凑，便于拆卸和清洗。通过旋转球体实现流体的开启和关闭，密封可靠，防止泄漏。阀体和内腔经过镜面抛光，符合食品、制药等行业对卫生标准的严格要求。适用于各种洁净工艺管道系统，支持多种连接方式，确保流体控制的高效与安全。

◎ 不锈钢卫生三片式球阀由三部分阀体组成，便于拆卸和维护。采用球体旋转控制流体通断，密封性能优良。阀体与内腔表面光滑抛光，符合卫生级标准，避免物料残留。连接方式多样，支持焊接或快装，适应不同管道需求。设计紧凑，操作简便，适合高洁净度工艺环境。

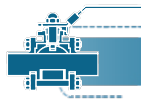
◎ 不锈钢卫生三片式球阀通过旋转球体来控制流体的通断。当手柄或执行器旋转球体90度时，球体上的通孔与管道对齐，介质即可流通；反向旋转则关闭通道。球体紧贴密封圈，形成可靠密封，防止泄漏。三片式结构便于快速拆卸清洗，满足卫生级工艺对无死角、易清洁的要求，适用于频繁清洗或维护的系统。



Features 特点

- ◎ Hygienic Design: Value: Smooth surface finish and crevice-free construction
- ◎ Compact and Lightweight: Value: Streamlined design
- ◎ Full Port Ball: Value: Uninterrupted flow path
- ◎ Easy Actuation: Value: Handle or pneumatic actuator options
- ◎ Leak-proof Seal: Value: High-quality seal materials
- ◎ Sanitary Connections: Value: Tri-clamp, threaded, or butt weld connections
- ◎ valve stem anti-flying design
- ◎ the connection between valve body and bonnet with positioning stage design
- ◎ circulation
- ◎ no retention design

- ◎ 卫生设计：超值：表面光滑，无缝隙结构
- ◎ 小巧轻便：价值：流线型设计
- ◎ 全端口球体：价值：不间断流道
- ◎ 易于驱动：价值：手柄或气动执行器选项
- ◎ 防漏密封：价值：高品质密封材料
- ◎ 卫生连接：价值：三夹式、螺纹或对焊连接
- ◎ 阀杆防飞出设计
- ◎ 阀体与阀盖连接带定位台阶设计
- ◎ 全流通
- ◎ 无滞留设计



Application 应用

◎ Stainless steel sanitary three-piece ball valves are widely used in clean fluid control systems in industries such as food, beverages, dairy products, biopharmaceuticals, and cosmetics. They are reliable in sealing, easy to disassemble and clean, and have no dead angles, meeting the strict requirements of high-level sanitary processes for valve cleanliness and ease of operation.

◎ 不锈钢卫生三片式球阀广泛应用于食品、饮料、乳制品、生物制药、化妆品等行业的洁净流体控制系统中。其密封可靠、易拆清洗、无死角的特点，满足高卫生等级工艺对阀门洁净性与操作便捷性的严格要求。

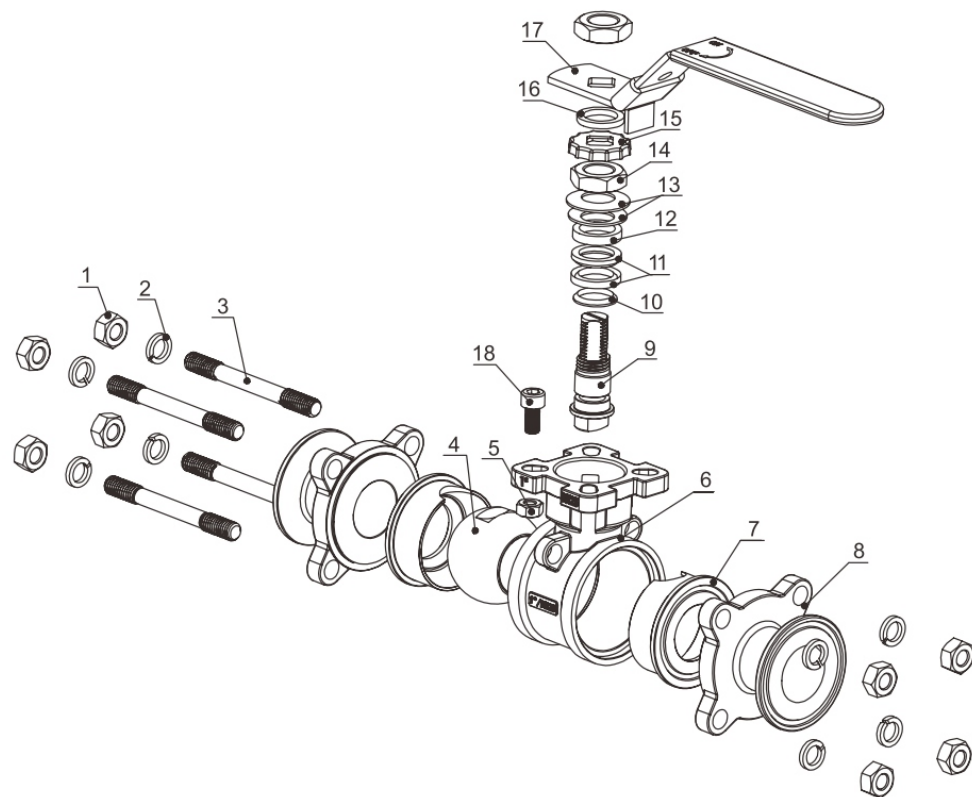


Technical design SPEC 技术规格

- ◎ Leakage Rate: $\leq 0.01\%$ of KVS (Cv)
- ◎ Actuator Options: Manual, Pneumatic
- ◎ Flow Control: Linear
- ◎ Torque Requirement: Varies with valve size, maximum 25 Nm
- ◎ Cycle Life: 100,000 cycles (Minimum)

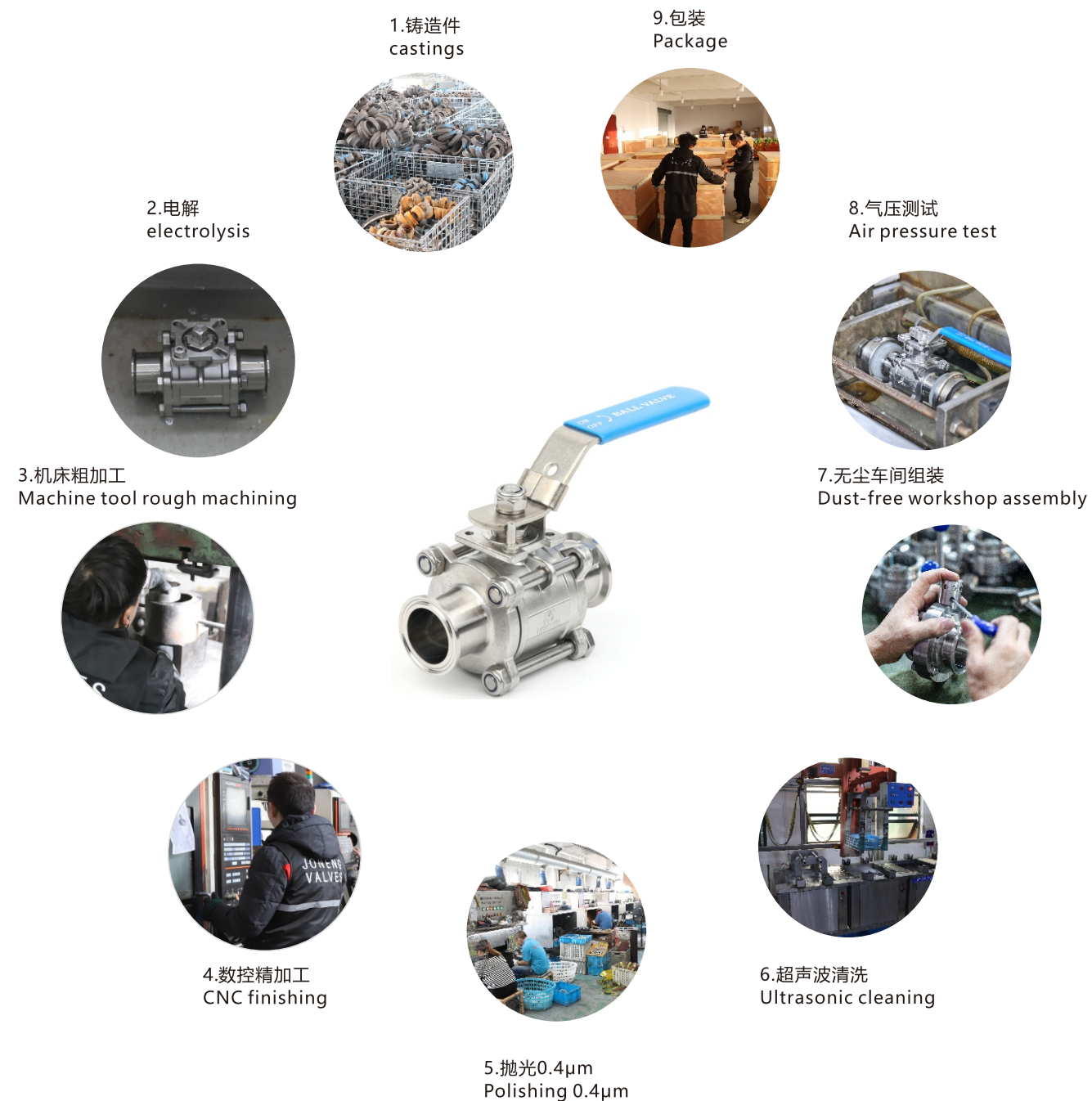
- ◎ 泄漏率： $\leq 0.01\%$ KVS (Cv)
- ◎ 执行器选项：手动、气动
- ◎ 流量控制：线性
- ◎ 扭矩要求：因阀门尺寸而异，最大 25 牛米
- ◎ 循环寿命：100,000 次（最少）

Exploded View 分解图



NO	SPARE NAME	QTY	MATERIAL	NOTE
1	Hex nut	8	A2-70	12pcs for valvesize above 2.5"
2	Elastic ring	8	A2-70	12pcs for valvesize above 2.5"
3	Bolt	4	A2-70	12pcs for valvesize above 2.5"
4	Valve body	1	304/316L	
5	Hex nut	1	A2-70	
6	Valve body	1	304/316L	
7	Seat	2	PTFE	
8	Valve cap	2	304/316L	
9	Valve body	1	304/316L	
10	Washer gasket	1	PTFE	
11	V-seal components	2	PTFE	
12	Gasket	1	PTFE	
13	Springgasket	2	A2-70	
14	Hex nut	2	A2-70	
15	Spring washer	1	A2-70	
16	Gasket	1	A2-70	
17	Pull handle	1	304	
18	Hex nut	1	A2-70	

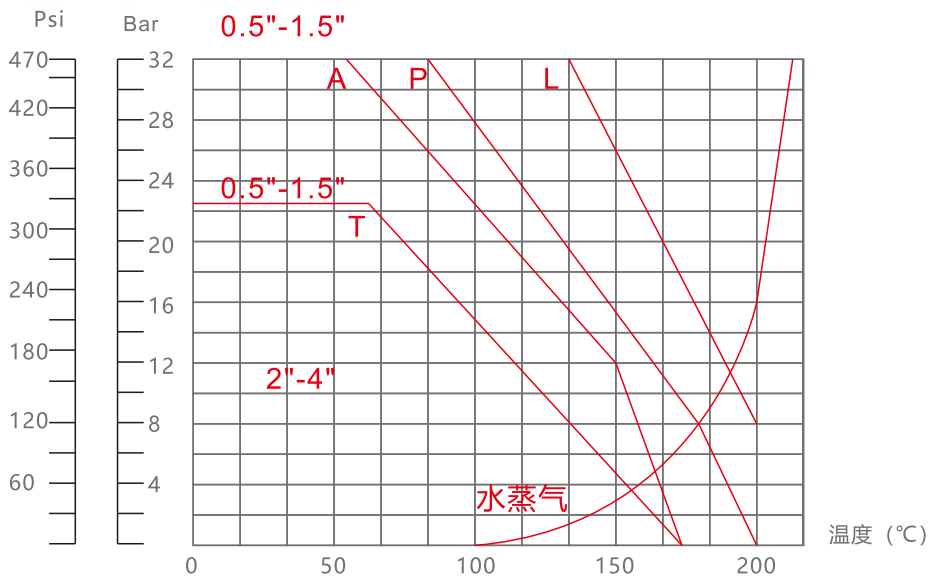
Process 工艺流程



Each product has gone through 9 production processes with process card, we can clearly know the person in charge of each process, to ensure product quality! ly know the person in charge of each process, to ensure product quality!

每个产品都经过9道加工工序，并配有流程卡；我们可以清楚的知道每个流程的负责人，以确保产品质量！

Graph 曲线图



T:PTFE
P:C+PTFE
A:PTFE(TFM)
P:PTFE(Virgin peek@)

说明: 测试条件, 介质水
Description: Test conditions, medium water

Ball valve flow coefficient KV value
球阀流量系数KV值

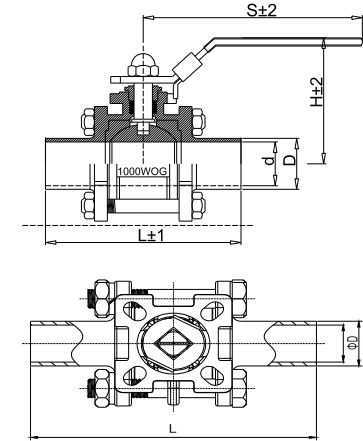
DN	15	20	25	32	40	50	65	80	100	125
KV	21	38	72	112	170	273	384	512	940	1452

THE N.M OF 3 PC ENCAPSULATED HALF-PACK BALL VALVE
三片式全包半包球阀扭矩表

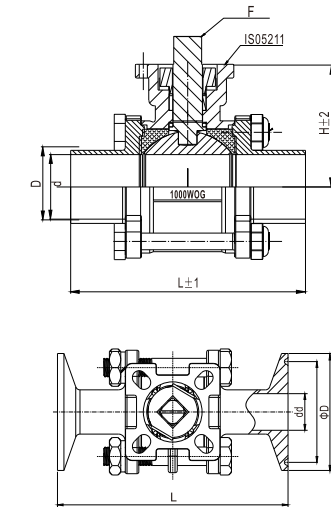
SIZE	1/2"-3/4"	1"/DN25	1.25"/DN32	1.5"/DN40	2"/DN50	2.5"/DN65	3"	DN80	4"/DN100
N.M	6	10	12	14	20	40	75	90	110

Advice: increasing 20% Safety Margin When Selecting Actuators
选择执行器时建议增加20%安全余量Advice: increasing 20% Safety

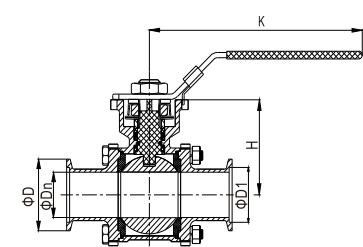
卫生级焊接三片式球阀



卫生级高平台三片快装球阀



真空三片式半包球阀



Sanitary Welded 3PC Ball Valve JN-3PBLV 1001

SIZE	d	D	L	H	S
1/2"	9.4	12.7	90	60	132
3/4"	16	19	104	64.5	132
1"	22.1	25.4	115	69	165
1 1/4"	28.5	31.8	125	75	170
1 1/2"	34.9	38.1	140	89	194
2"	47.5	50.8	156	97	194
2 1/2"	59.5	63.5	198	127	252
3"	72.2	76.2	230	135	252
4"	97.6	101.6	242	159	332
5"	125	129	290	210	350
6"	150	154	340	249	430

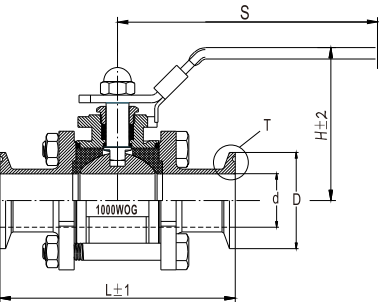
Sanitary High Platform Quick Install 3PC Ball Valve JN-3PBLV 1002

SIZE	d	D	L	H	F	IS05211
1/2"	9.5	12.7	90	30	9X9	F05
3/4"	15.8	19.0	104	33	9X9	F05
1"	22.1	25.4	115	48	9X9	F05
1 1/4"	28.5	31.8	125	60	9X9	F05
1 1/2"	34.8	38.1	140	66	11X11	F05
2"	47.5	50.8	156	77	11X11	F07
2 1/2"	59.5	63.5	199	92	14X14	F07
3"	72.2	76.2	230	115	17X17	F10
4"	97.5	101.6	242	125	17X17	F10

Vacuum 3PC Half Wrapped Ball Valve,KF JN-3PBLV 1003

SIZE	G	D	Dn	L	H	K
KF10	30	9.4	12.2	89	130	38.0
KF16	30	15.8	17.2	101	130	42.5
KF25	40	22.1	26.2	115	165	52.5
KF40	55	34.8	41.2	140	215	73.0
KF50	75	47.5	52.2	156	215	78.5

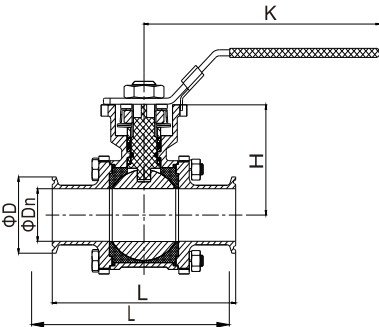
卫生级三片快装球阀



Sanitary 3PC Quick Install Ball Valve **JN-3PBLV 1004**

SIZE	d	D	L	H	F
1/2"	9.4	25.4	91	60	132
3/4"	16	50.5	104	64.5	132
1"	22	50.5	115	69	165
1 1/4"	28	50.5	125	75	170
1 1/2"	35	50.5	140	89	172
2"	47	64.0	156	97	194
2 1/2"	60	77.5	199	127	252
3"	72	91.0	230	135	252
4"	95	119.0	242	159	332

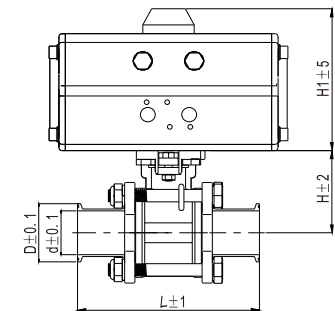
卡箍三片式全包球阀



Clamp 3PC Ball Valve, DIN **JN-3PBLV 1005**

SIZE	D	Dn	L	K	H
DN10	34	10	89	130	38.0
DN15	34	15	101	130	42.5
DN20	34	19	101	130	42.5
DN25	50.5	25	114	165	52.5
DN32	50.5	31	122	165	58.5
DN40	50.5	38	140	215	73.0
DN50	64	49	156	215	78.5
DN65	91	66	197	215	95.0
DN80	106	81	229	320	110.5
DN100	119	100	242	320	122.5

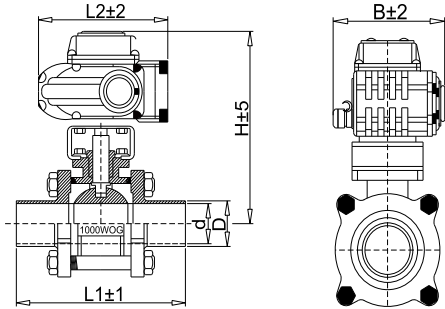
气动三片式快装球阀



Pneumatic 3PC Quick Install Ball Valve **JN-3PBLV 1006**

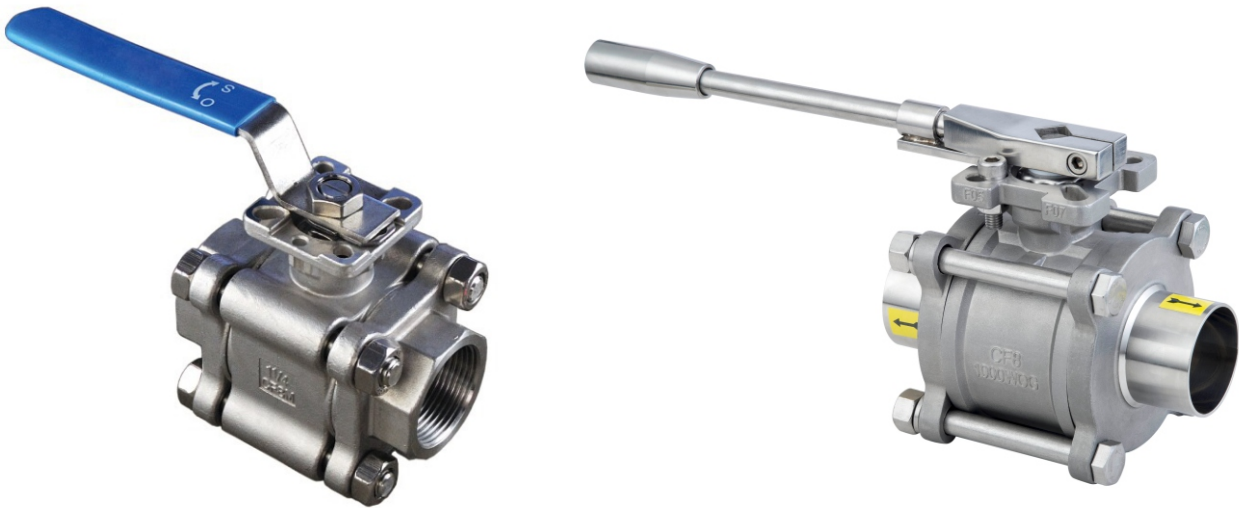
SIZE	d	D	L	H	H1	ACT
1/2"	9.5	12.7	90	46	100	AT52
3/4"	15.8	19.0	104	50	115	AT63
1"	22.1	25.4	115	50	115	AT63
1 1/4"	28.5	31.8	125	60	132	AT75
1 1/2"	34.8	38.1	140	66	132	AT75
2"	47.5	50.8	156	77	150	AT90
2 1/2"	60.0	63.5	198	92	160	AT105
3"	72.2	76.2	230	115	185	AT125
4"	97.5	101.6	242	125	200	AT140

卫生级三片式电动全包球阀



Pneumatic 3PC Quick Install Ball Valve **JN-3PBLV 1007**

SIZE	d	D	L	H	H1	ATC
1/2"	9.5	12.7	90	46	100	AT52
3/4"	15.8	19.0	104	50	115	AT63
1"	22.1	25.4	115	50	115	AT63
1 1/4"	28.5	31.8	125	60	132	AT75
1 1/2"	34.8	38.1	140	66	132	AT75
2"	47.5	50.8	156	77	150	AT90
2 1/2"	60.0	63.5	198	92	160	AT105
3"	72.2	76.2	230	115	185	AT125
4"	97.5	101.6	242	125	200	AT140





Synopsis 简介

◎ The stainless steel sanitary three-way ball valve is a multi-channel switching valve used in clean pipelines such as food, beverages and pharmaceuticals. The internal ball is equipped with a T-type or L-type channel, which controls different flow directions by rotation, facilitating fluid distribution or collection. It has a compact



Description 设计说明

◎ The stainless steel sanitary three-way ball valve adopts a full-bore structure, with a smooth inner wall and no dead angles. The ball channel can be T-shaped or L-shaped to meet the needs of multi-channel switching. The design meets the CIP/SIP cleaning standards, the seals can be quickly replaced, and the connection methods are diverse (quick installation, welding, threaded), which is suitable for different sanitary piping systems and easy to install and maintain.



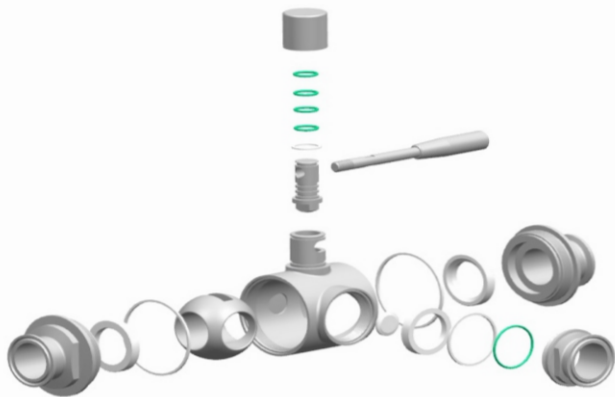
Working principle 工作原理

◎ The stainless steel sanitary three-way ball valve can switch, split or merge three-way pipelines by rotating the ball with a T-shaped or L-shaped channel inside. The ball is driven to rotate manually or automatically to align or close the channel with different pipe openings to control the flow direction of the fluid. Its sealing structure ensures that the medium does not leak and is suitable for clean working conditions.

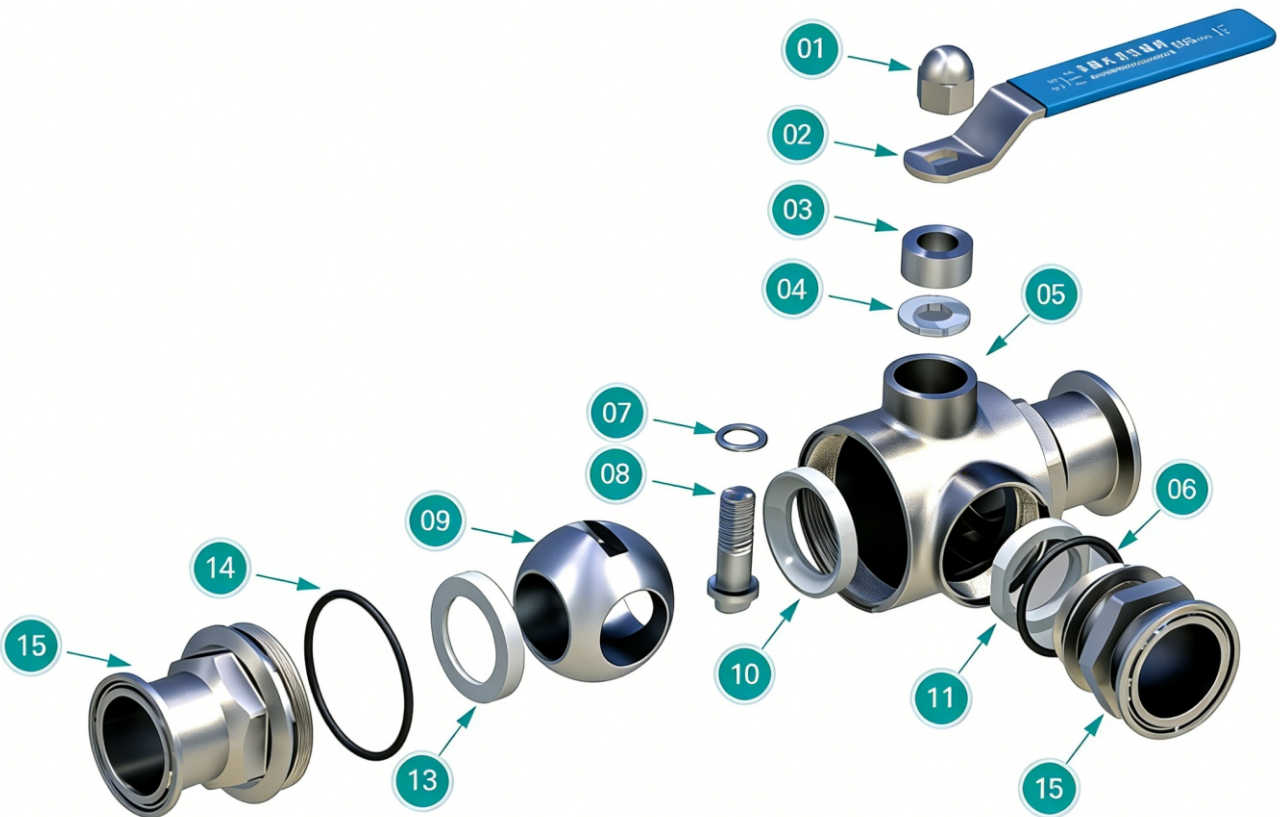
◎ 不锈钢卫生三通球阀是一种用于食品、饮料和制药等洁净管道中的多通路切换阀，内部球体设有T型或L型通道，通过旋转控制不同流向，便于流体分配或汇集，结构紧凑，易清洗。

◎ 不锈钢卫生三通球阀采用全通径结构，内壁光滑无死角，球体通道可为T型或L型，满足多通路切换需求。设计符合CIP/SIP清洗标准，密封件可快速更换，连接方式多样（快装、焊接、螺纹），适配不同卫生级管道系统，安装维护便捷。

◎ 不锈钢卫生三通球阀通过旋转内部带有T型或L型通道的球体，实现三通管路间的切换、分流或合流。手动或自动驱动球体转动，使通道与不同管口对齐或关闭，从而控制流体流向。其密封结构确保介质不泄漏，适用于洁净工况。



3Way Ball Valve Figure 直通球阀爆炸图



Parts List			
No.	Description	No.	Description
01	盖形螺母 Cap Nut	09	球芯 Ball Core
02	手柄 Pull Handle	10	四氟垫 PTFE Mat
03	衬套 Coat	11	四氟垫 PTFE Mat
04	密封垫 Seal Ring	12	阀盖 Valve Cap
05	阀体 Valve Body	13	四氟垫 PTFE Mat
06	O型圈 O-type Gasket	14	O型圈 O-type Gasket
07	平垫 flat gasket	15	阀盖 Valve Cap
08	阀杆 Valve Rod		

Features 特点

- ◎ The inner wall is smooth, without stagnant areas, and meets hygiene standards.
- ◎ T-type/L-type ball structure, suitable for various flow direction control
- ◎ Quick installation, welding and other connection methods, flexible installation
- ◎ Easy to disassemble and assemble, easy to clean and maintain
- ◎ Strong sealing, corrosion resistance, suitable for CIP/SIP cleaning
- ◎ Can be configured with manual or pneumatic, electric actuators

Application 应用

◎ Stainless steel sanitary three-way ball valves are widely used in clean piping systems in industries such as food, beverages, dairy products, brewing, biopharmaceuticals and cosmetics. Its multi-channel flow control capability is suitable for material diversion, mixing or switching, meeting CIP/SIP online cleaning requirements, and ensuring hygienic safety and process flexibility during the production process.

Technical design SPEC 技术规格

- ◎ Standard: 3A/DIN/SMS
- ◎ The valve body can be replaced without changing the overall length of the gate.
- ◎ no gap in coverage
- ◎ The inlet and outlet directions can be arbitrarily combined

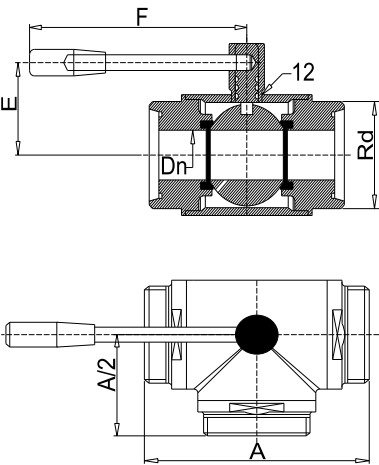
- ◎ 内壁光滑，无滞留区，符合卫生标准
- ◎ T型/L型球体结构，适用于多种流向控制
- ◎ 快装、焊接等多种连接方式，安装灵活
- ◎ 拆装简便，易于清洗和维护
- ◎ 密封性强，耐腐蚀，适用于CIP/SIP清洗
- 可配置手动或气动、电动执行器

◎ 不锈钢卫生三通球阀广泛应用于食品、饮料、乳制品、酿酒、生物制药和化妆品等行业的洁净管道系统中。其多通路流向控制能力适合实现物料分流、混合或切换，满足CIP/SIP在线清洗要求，确保生产过程中的卫生安全和工艺灵活性。



Process 工艺流程

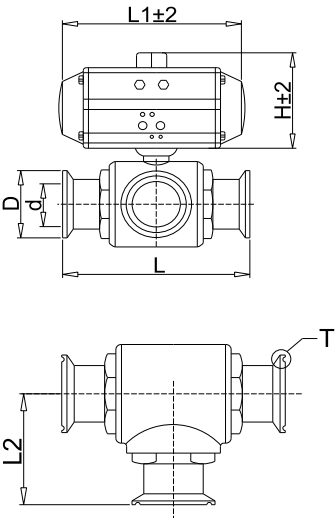
卫生级三通螺纹球阀



Sanitary Three-way Threaded Ball Valve(SMS) JN-3WBLV-1003

SIZE	Dn	A	E	F	Rd
1"	22.4	140	64	185	Rd40×1/6"
1 1/4"	28.4	156	64	185	Rd48×1/6"
1 1/2"	35.1	165	68	185	Rd60×1/6"
2"	47.8	182	73	205	Rd70×1/6"
2 1/2"	59.5	196	95	243	Rd85×1/6"
3"	72.2	225	104	243	Rd98×1/6"
4"	97.6	286	173	273	Rd125×1/4"

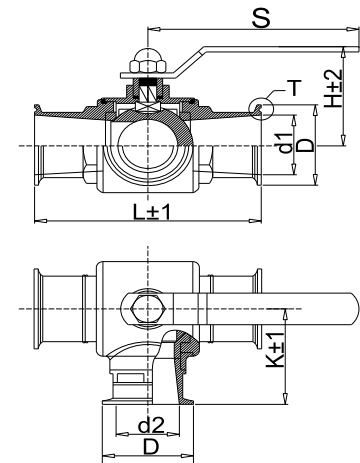
卫生级气动三通球阀



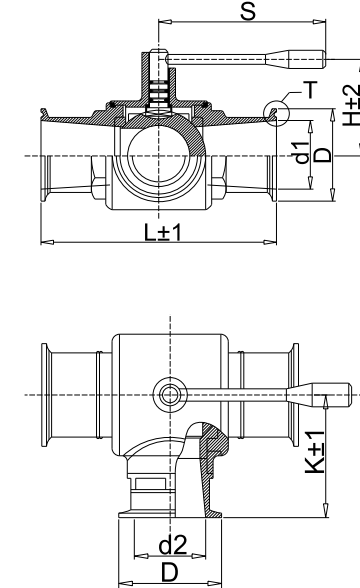
Sanitary Pneumatic Three-way Ball Valve JN-3WBLV-1004

SIZE	d1	d2	D	L	K	CYLINDER MODEL
3/4"	18	18	50.5	104	50.5	AT52
1"	22	22	50.5	118	60	AT63
1 1/4"	29	29	50.5	132	66	AT63
1 1/2"	35	35	50.5	154	74	AT75
2"	47.5	42	64	168	84	AT83
2 1/2"	58.5	54	77.5	195	92	AT92
2 3/4"	67	67	91	210	111	AT92
3"	72	67	91	215	116	AT105
3 1/2"	80	80	106	230	131	AT125
4"	100	94	119	260	147	AT140

卫生级三通球阀



卫生级三通球阀

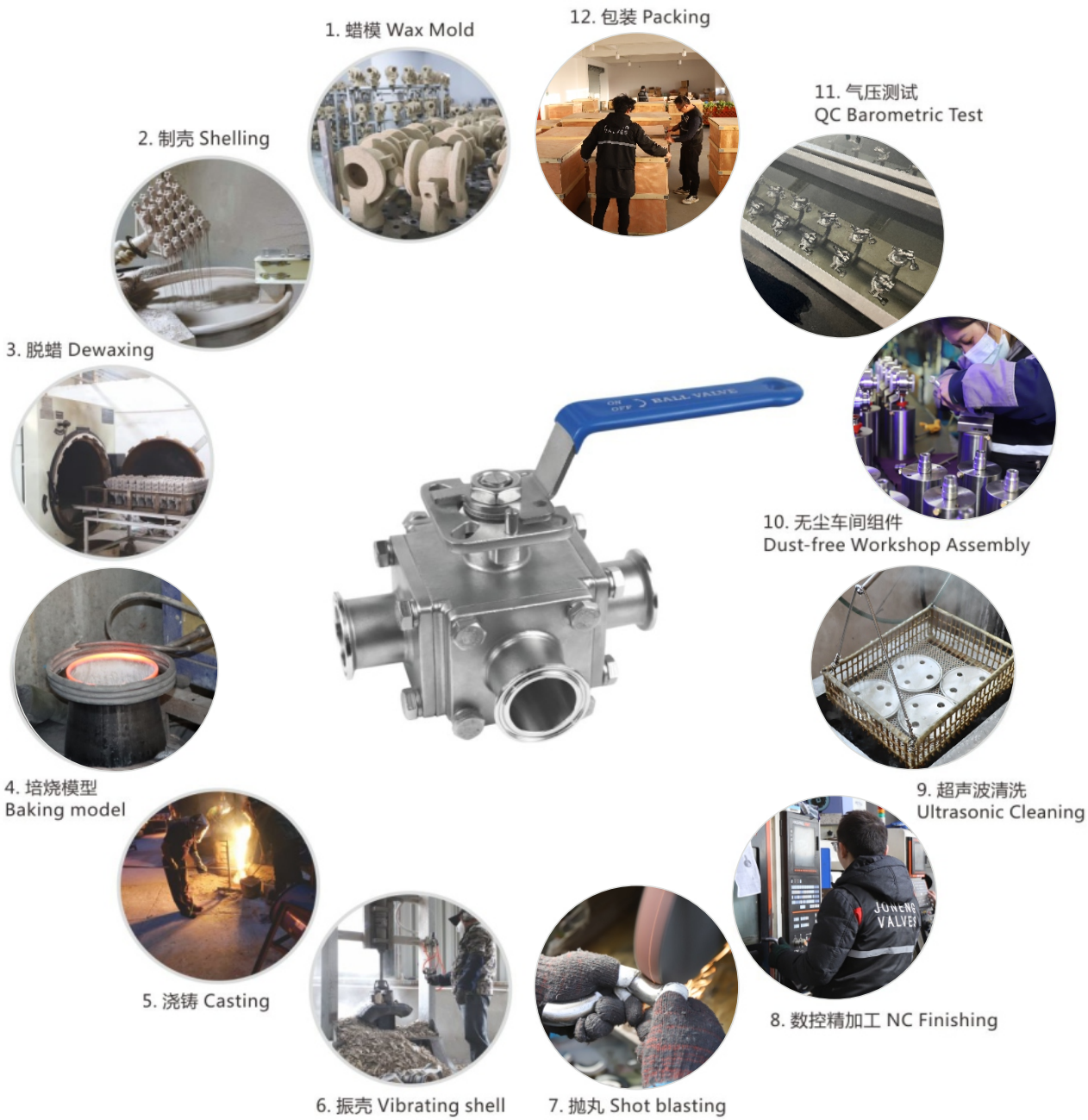
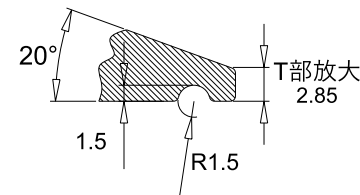


Sanitary Three Way Ball Valve JN-3WBLV-1001

SIZE	d1	d2	D	L	K	H	S
3/4"	17	17	50.5	104	51	56	102
1"	22	22	50.5	120	60	62	130
1 1/4"	29	29	50.5	130	66	74	140
1 1/2"	35	35	50.5	155	74	75	150
2"	47	42	64	168	84	88	180
2 1/2"	59	53	77.5	195	92	96	230
DN65	66	66	91	212	111	109	260
3"	72	72	91	212	116	112	260
3 1/2"	80	80	106	230	131	129	260
4"	100	95	119	260	147	164	325

Sanitary Three Way Ball Valve,3A,SMS,ISO,IDF,BS JN-3WBLV-1002

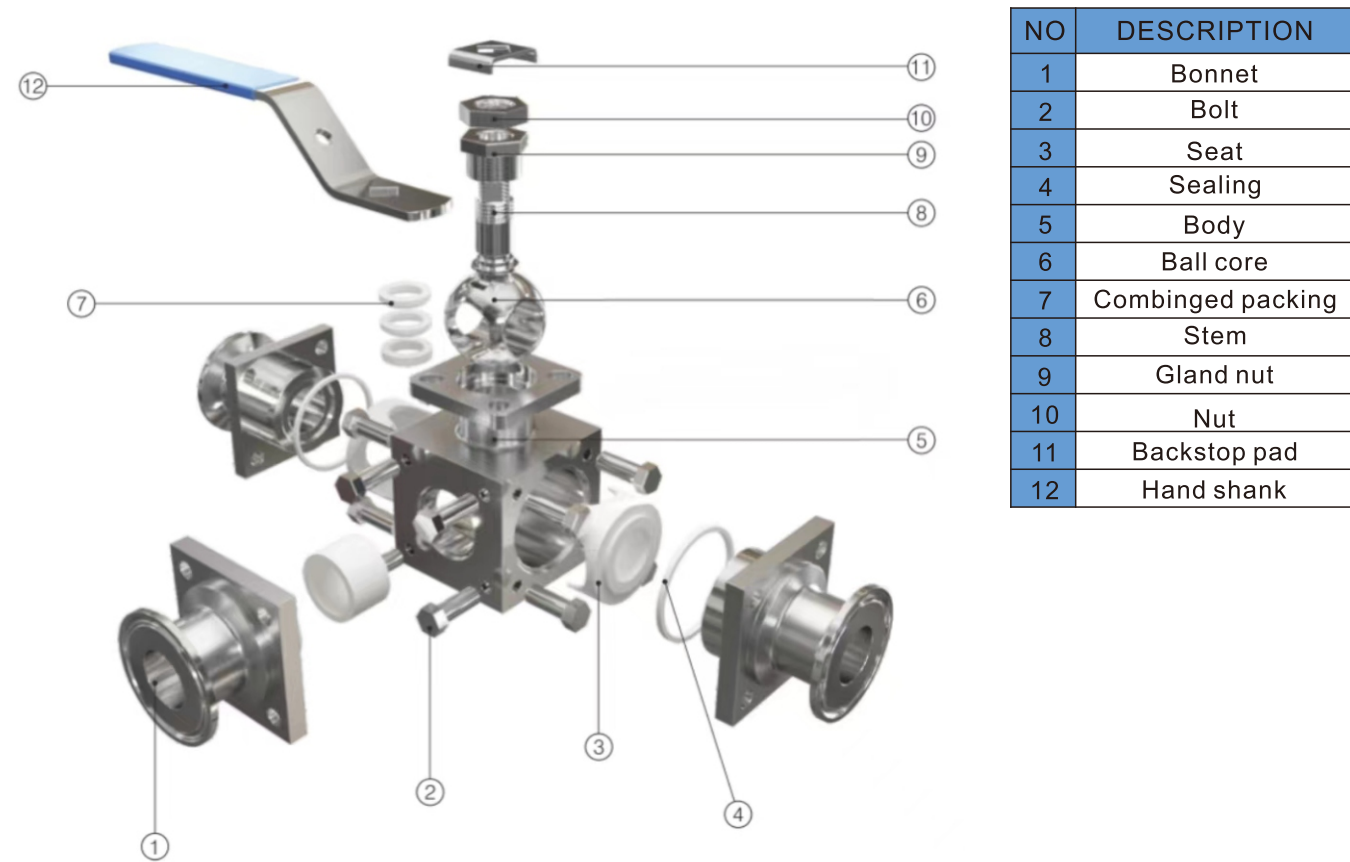
SIZE	d1	d2	D	L	K	H	S
3/4"	17	17	50.5	105	63	44	126
1"	22	22	50.5	120	68	53	136
1 1/4"	29	29	50.5	130	71	54	138
1 1/2"	35	35	50.5	155	80	65	156
2"	47.5	42	64	168	90	72.5	170
2 1/2"	59	54	77.5	195	102	86	194
3"	72	67	91	215	118	99	220
4"	100	94	119	260	142	123.5	264



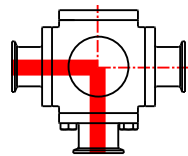
Each product has gone through 12 production processes with process card, we can clearly know the person in charge of each process, to ensure product quality!
每个产品都经过11道加工工序，并配有流程卡；我们可以清楚的知道每个流程的负责人，以确保产品质量！

SIZE	1/2"-3/4"	1"/DN25	1.25"/DN32	5"/DN40	2"/DN50	2.5"-3"	DN65	DN80	4"/DN100
N.M	10	15	20	25	35	50	75	95	120

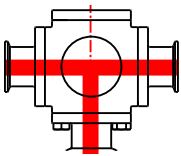
Exploded View 分解图



Square quick-install three-way ball valve
方型快装三通球阀



L-PORT

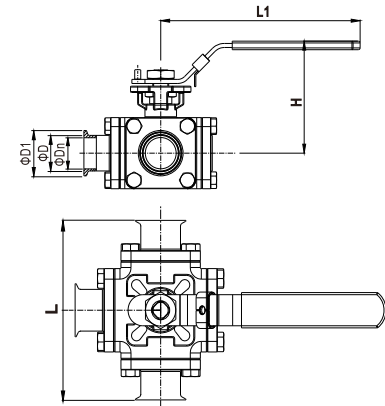


T-PORT

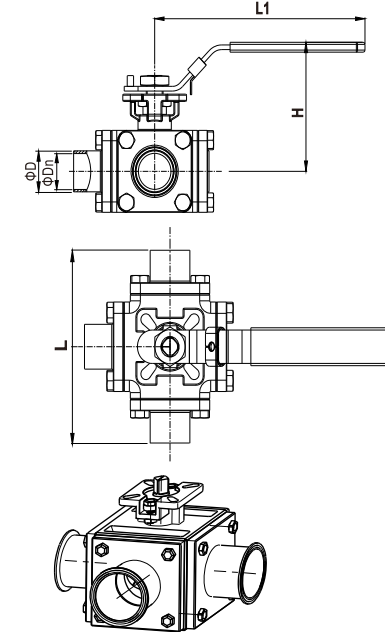
L-PATTERN BALL-POSITION ARRANGEMENTS			
#1	#2	#3	#4

T-PATTERN BALL-POSITION ARRANGEMENTS			
#1	#2	#3	#4

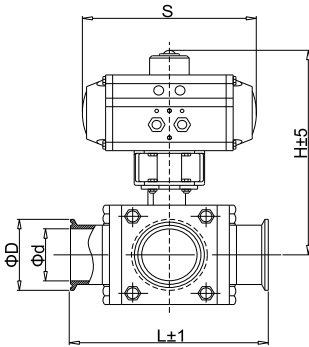
全口径三通全包球阀(快接)



全口径三通全包球阀(焊接)



卫生级气动方形三通球阀



3 Way Full Bore Encapsulated Ball Vavle(Clamp) ,3A JN-3WBLV 1005

SIZE	ΦDn	ΦD	ΦD1	L	L1	H
1/2"	9.4	12.7	25.5	118	135	77
3/4"	15.8	19.1	25.5	127	135	78
1"	22.1	25.4	50.5	152	135	95
1 1/4"	28.5	31.8	50.5	174	181	113
1 1/2"	34.8	38.1	50.5	174	181	113
2"	47.5	50.8	64.0	204	181	121
2 1/2"	60.2	63.5	77.5	227	181	135
3"	72.9	76.2	91.0	262	389	132
4"	97.4	101.6	119.0	319	489	149

Manual 3PC All-inclusive Tank Bottom Ball Valve(Weled),DIN JN-3WBLV 1006

SIZE	ΦDn	ΦD	L	L1	H
DN15	15	18	118	135	77
DN20	19	22	127	135	78
DN25	25	28	152	135	95
DN32	31	34	174	181	113
DN40	37	40	174	181	113
DN50	49	52	204	181	121
DN65	66	70	227	181	135
DN80	81	85	262	389	132
Dn100	100	104	319	489	149

Sanitary Pneumatic Square Three Way Ball Valve JN-3WBLV 1007

SIZE	DN	L	d	D	H	S		See P10for detailed parameters
						SINGLE	DOUBLE	
1/2"	DN15	148	12.7	25.2	120	/	/	
3/4"	DN20	155	19.05	25.2	134	AT52	AT52	
1"	DN25	168	25.4	50.5	155	AT63	AT52	
1 1/4"	DN32	198	31.8	50.5	160	/	/	
1 1/2"	DN40	220	38.1	50.5	180	AT75	AT63	
2"	DN50	245	50.8	64	201	AT92	AT75	
2 1/2"	DN65	270	63.5	77.5	211	AT105	AT83	
3"	DN80	290	76.2	91	249	AT125	AT92	
4"	DN100	330	101.6	119	309	AT140	AT125	



Synopsis 简介

◎ The stainless steel sanitary non-retention ball valve is a ball valve designed for clean processes. It adopts a full-bore structure, has no dead angle in the inner cavity, and the flow channel is flush with the pipeline to avoid residue accumulation. Its design facilitates CIP/SIP online cleaning and disinfection. It is often used in industries with strict hygiene requirements such as food, dairy products, and biopharmaceuticals to ensure the purity of the medium and the cleanliness of the system.

◎ 不锈钢卫生无滞留球阀是一种专为洁净工艺设计的球阀，采用全通径结构，内腔无死角，流道与管道平齐，避免残留物积聚。其设计便于CIP/SIP在线清洗和消毒，常用于食品、乳品、生物制药等对卫生要求严格的行业，保障介质纯净与系统清洁。



Description 设计说明

◎ The stainless steel sanitary non-retention ball valve adopts a full-bore structure, and the ball is flush with the inner wall of the pipe to avoid medium residue and meet the non-retention design requirements. The valve body has a smooth transition, the sealing ring is embedded in a compact structure, and supports quick installation, welding and other connection methods. The overall design complies with the hygiene standards such as EHEDG and 3A, and is suitable for high-cleanliness applications in the CIP/SIP cleaning process.

◎ 不锈钢卫生无滞留球阀采用全通径结构，球体与管道内壁齐平，避免介质残留，满足无滞留设计要求。阀体过渡圆滑，密封圈嵌入结构紧凑，支持快装、焊接等连接方式。整体设计符合EHEDG与3A等卫生标准，适用于CIP/SIP清洗过程中的高洁净应用。



Working principle 工作原理

◎ The stainless steel sanitary non-retention ball valve opens and closes the fluid by rotating the internal full-bore ball. The channel of the ball is flush with the inner wall of the pipe. When opened, the medium passes through without obstruction. When closed, the sealing ring fits tightly with the ball to achieve reliable cutoff. This structure eliminates the dead angle of the ball cavity in the traditional ball valve, avoids the risk of material retention and cross contamination, and is particularly suitable for production systems with high cleanliness requirements. The valve can be equipped with a manual handle or an automatic actuator, supports CIP/SIP online cleaning, is easy to maintain, and is hygienic and safe.

◎ 不锈钢卫生无滞留球阀通过旋转内部全通径球体实现对流体的开启与关闭。球体的通道与管道内壁齐平，打开时介质无阻流通过，关闭时密封圈与球体紧密贴合，实现可靠截断。该结构消除了传统球阀中球腔死角，避免了物料滞留和交叉污染的风险，特别适用于高洁净要求的生产系统。阀门可配手动手柄或自动执行器，支持CIP/SIP在线清洗，维护方便，卫生安全。



Features 特点

- ◎ Full bore structure, flow channel flush with pipe wall
- ◎ No dead angle design to avoid medium residue
- ◎ Easy to clean, suitable for CIP/SIP system
- ◎ High sealing performance to prevent leakage
- ◎ High surface finish, in line with 3A/EHEDG standards
- ◎ Optional manual, pneumatic or electric drive

- ◎ 全通径结构，流道与管壁齐平
- ◎ 无死角设计，避免介质残留
- ◎ 易清洗，适配CIP/SIP系统
- ◎ 高密封性能，防止泄漏
- ◎ 表面光洁度高，符合3A/EHEDG标准
- ◎ 可选手动、气动或电动驱动



Application 应用

◎ Stainless steel sanitary non-retention ball valves are widely used in industries with extremely high cleanliness requirements such as food, dairy products, beverages, biopharmaceuticals, cosmetics and fine chemicals. Its non-retention and easy-to-clean structure effectively avoids media contamination and cross contamination, and is particularly suitable for fluid control systems that require frequent CIP/SIP cleaning to ensure product quality and process safety.

◎ 不锈钢卫生无滞留球阀广泛应用于食品、乳品、饮料、生物制药、化妆品和精细化工等对洁净度要求极高的行业。其无滞留、易清洗的结构有效避免介质污染与交叉污染，特别适用于需频繁CIP/SIP清洗的流体控制系统，保障产品质量与工艺安全。



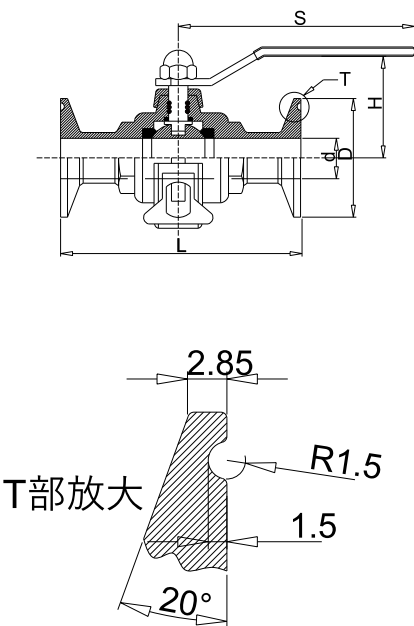
Technical design SPEC 技术规格

- ◎ Diameter range: DN15 □ DN100 or 1/2" □ 4
- ◎ Interface: quick-install, welding, thread
- ◎ Ball passage: full-diameter design
- ◎ Operation: manual, pneumatic, electric
- ◎ Working pressure: ≤10 bar
- ◎ Working temperature: -10°C ~ 150°C (depending on the sealing material)

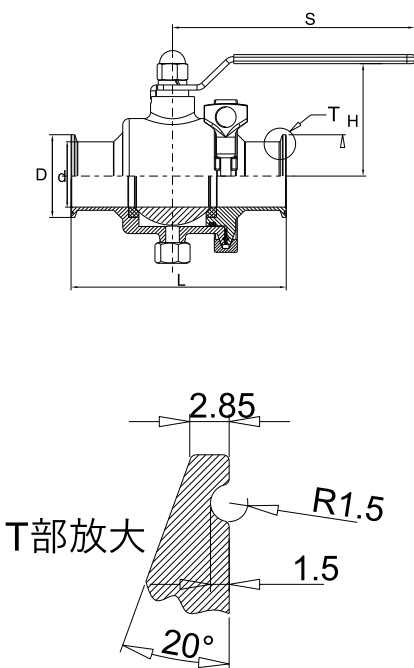
- ◎ 通径范围: DN15 ~ DN100 或 1/2" ~ 4
- ◎ 接口方式: 快装、焊接、螺纹
- ◎ 球体通道: 全通径设计
- ◎ 操作方式: 手动、气动、电动
- ◎ 工作压力: ≤10 bar
- ◎ 工作温度: -10°C ~ 150°C (视密封材质)



卫生级无滞留球阀

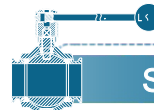


卫生级无滞留球阀



Sanitary Non-Retrnion Ball Valve			JN-NRTBLV 1001		
SIZE	d	D	L	H	S
3/4"	16	50.5	100	65	105
1"	22.4	50.5	110	70	105
1 1/4"	28.5	50.5	120	80	130
1 1/2"	35.1	50.5	140	80	150
2"	47.8	64	165	85	160
2 1/4"	53	77.5	170	110	180
2 1/2"	59.5	77.5	180	110	180
3"	72	91	190	130	200
3 1/2"	85	106	200	140	210
4"	98	119	220	155	230

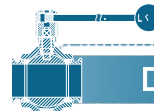
Sanitary Non-Retrnion Ball Valve			JN-NRTBLV 1002		
SIZE	d	D	L	H	S
3/4"	15.8	50.5	100	60	105
1"	22.1	50.5	120	65	105
1 1/4"	28.5	50.5	130	70	130
1 1/2"	34.8	50.5	140	80	150
2"	47.5	64	164	95	160
2 1/4"	53	77.5	170	110	180
2 1/2"	59.5	77.5	190	110	180
3"	72.2	91	215	130	200
3 1/2"	85	106	225	140	210
4"	97.5	119	260	160	230



Synopsis 简介

◎ The stainless steel sanitary butterfly ball valve is a fluid control valve that combines the butterfly valve structure with the sealing performance of the ball valve. It is suitable for clean industries such as food, beverages, and biopharmaceuticals. Its valve core is a thin structure with a spherical seal, with a small opening and closing angle, easy operation, unobstructed flow channel, smooth inner wall without retention, suitable for CIP/SIP cleaning, and has the characteristics of compactness, hygiene, and high efficiency.

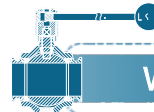
◎ 不锈钢卫生蝶式球阀是一种结合蝶阀结构与球阀密封性能的流体控制阀，适用于食品、饮料、生物制药等洁净行业。其阀芯为带有球面密封的薄型结构，启闭角度小，操作轻便，流道通畅，内壁光滑无滞留，适配CIP/SIP清洗，具备紧凑、卫生、高效等特点。



Description 设计说明

◎ The stainless steel sanitary butterfly ball valve adopts a structural design that combines a thin butterfly plate with a spherical seal. The opening and closing angle is 90° and the operation is flexible. The valve body is compact, the inner wall is smooth without dead angles, and the spherical seal ensures a reliable seal. The connection end is often in the form of quick assembly or welding, which is convenient for disassembly and cleaning. It supports CIP/SIP online cleaning. The overall structure meets 3A and other sanitary standards and is suitable for clean pipeline systems.

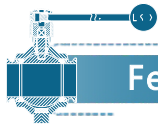
◎ 不锈钢卫生蝶式球阀采用薄型蝶板与球面密封相结合的结构设计，启闭角度为90°，操作灵活。阀体紧凑、内壁光滑无死角，球面密封确保密封可靠。连接端常为快装或焊接形式，方便拆卸清洗，支持CIP/SIP在线清洁，整体结构符合3A等卫生标准，适用于洁净管道系统。



Working principle 工作原理

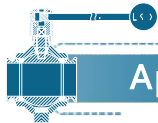
◎ The stainless steel sanitary butterfly ball valve realizes opening and closing control by rotating the butterfly plate with spherical seal. When opening, the butterfly plate rotates 90° along the direction of the fluid, so that the channel is fully opened and the medium passes smoothly; when closing, the butterfly plate rotates and fits the sealing surface to form a reliable seal. The spherical seal structure combines the sealing performance of the ball valve with the easy operation of the butterfly valve. The inner cavity is smooth and free of retention, suitable for CIP/SIP online cleaning, and is widely used in sanitary pipeline systems.

◎ 不锈钢卫生蝶式球阀通过旋转带有球面密封的蝶板实现启闭控制。开启时，蝶板顺着流体方向旋转90°，使通道完全打开，介质顺畅通过；关闭时，蝶板回转并贴合密封面，形成可靠密封。球面密封结构结合了球阀的密封性能与蝶阀的轻便操作，内腔光滑无滞留，适用于CIP/SIP在线清洗，广泛应用于卫生级管道系统中。



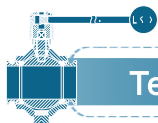
Features 特点

- ◎ Spherical seal, good sealing performance
- ◎ Compact structure, quick opening and closing
- ◎ Smooth inner wall, no dead angle, easy to clean
- ◎ Small opening and closing angle, easy to operate
- ◎ Suitable for CIP/SIP online cleaning
- ◎ Quick installation or welding connection, easy installation



Application 应用

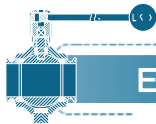
◎ Stainless steel sanitary butterfly ball valves are widely used in food processing, dairy products, beverage production, biopharmaceuticals and cosmetics industries. These fields have extremely high requirements for the cleanliness and sealing performance of the pipeline system. The butterfly ball valve is suitable for high-frequency operation and online cleaning (CIP/SIP) requirements with its fast opening and closing and excellent sealing performance, effectively ensuring the sanitation and safety of the production process and the purity of the fluid.



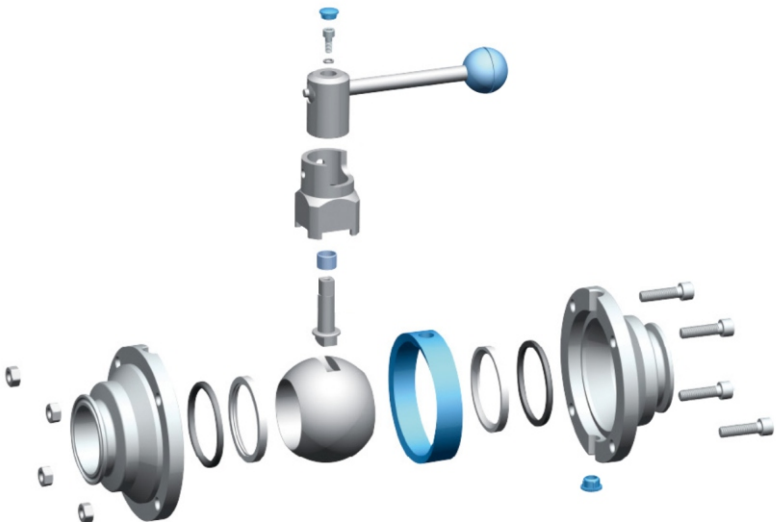
Technical design SPEC 技术规格

- ◎ Diameter range: DN15□DN100 (1/2"□4")
- ◎ Working pressure: ≤10 bar
- ◎ Working temperature: -10°C ~ 150°C (depending on the sealing material)
- ◎ Connection method: quick installation, welding
- ◎ Opening and closing angle: 90°
- ◎ Sealing material: PTFE, EPDM, etc
- ◎ Operation method: manual, pneumatic, electric
- ◎ Surface treatment: internal and external mirror polishing, in line with 3A/EHEDG standards

- ◎ 球面密封，密封性能好
 - ◎ 结构紧凑，启闭迅速
 - ◎ 内壁光滑，无死角，易清洗
 - ◎ 启闭角度小，操作轻便
 - ◎ 适配CIP/SIP在线清洗
 - ◎ 快装或焊接连接，安装简便
- ◎ 不锈钢卫生蝶式球阀广泛应用于食品加工、乳制品、饮料生产、生物制药及化妆品行业。这些领域对管道系统的洁净度和密封性能要求极高，蝶式球阀凭借其快速启闭和优异密封性能，适合高频操作和在线清洗（CIP/SIP）需求，有效保障生产过程的卫生安全和流体纯净。



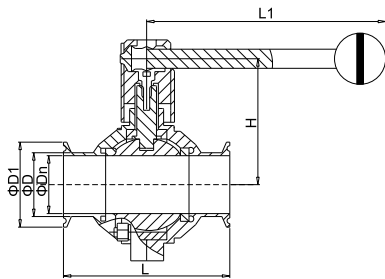
Exploded View 分解图



TCHNIQUE PARAMETER		
Material	Contact product parts	304L/316L(1.4307/1.4404) 304L/316L(1.4307/1.4404) Forged
	Non-contact product parts	304(1.4301)
	EN 10204 31B Provide EN 10204 31B certificate	
SealMaterial	Standard	PTFE/EPDM
	Option	FPM/PTFE, HNBR/PTFE, SILICONE/PTFE
	177.2600 All seal materil meet FDA177.2600	
Temperature	Running working temperature	-20~+135°C(EPDM/PTFE)
	Sterilization temperature	150°C(max20min)
Pressure	Working pressure	10bar
Surface treatment	Internal surface	Ra≤0.8 μm
	External surface	1. 6 μm
Connection	Connection standard	DIN 11850 Welded end: DIN 11850 series2
		Inch Welded end:INCH pipe standard
	Connection method: welding、thread、clamp、flange	

N.M DRY TEST	DN10-DN20	DN25	DN32	DN40	DN50	2.5"	DN65	DN80	DN100
	1/2"-3/4"	1"	1 1/4"	1 1/2"	2"	25	30	3"	4"
	8	8	10	12	17			40	70

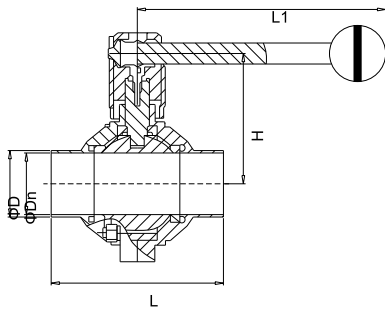
3A快装/焊接手动蝶式球阀



3A Manual Quick Install/Welded Butterfly Ball Valve JN-BFBLV-23-1001

SIZE	ΦDn	ΦD1	L	L1	H	K×K
1/2"	9.4	25.5	70	141	61	10×10
3/4"	15.8	25.5	70	141	61	10×10
1"	22	50.5	85	141	67.5	10×10
1.25"	28.5	50.5	85	141	68	10×10
1.5"	34.8	50.5	100	143	74	10×10
2"	47.5	64	110	141	87	10×10
2.5"	60.2	77.5	125	174	107	10×10
3"	72.9	91	135	187	117.5	11×11
4"	97.6	119	170	301	141.5	14×14

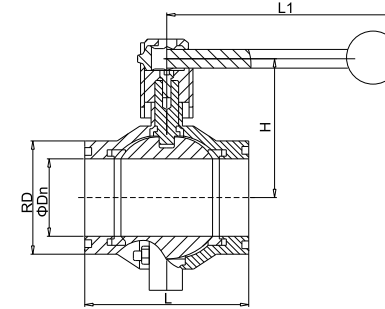
焊接蝶式球阀



DIN Manual Quick Install/Welded Butterfly Ball Valve JN-BFBLV-23-1002

SIZE	ΦDn	ΦD1	L	L1	H	K×K
DN15	15	34	70	143	60	10×10
DN20	19	34	70	143	60	10×10
DN25	25	50.5	85	143	68	10×10
DN32	31	50.5	85	143	68	10×10
DN40	37	50.5	100	143	75	10×10
DN50	49	64	110	143	85	10×10
DN65	66	91	125	143	107	10×10
DN80	81	106	135	186	117	11×11
DN100	100	119	170	215	140	14×14

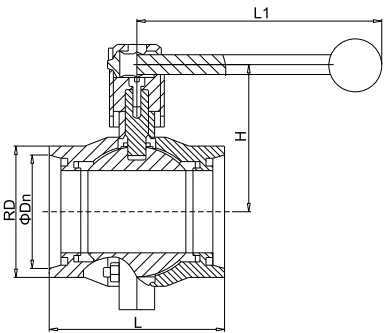
SMS螺纹手动蝶式球阀



SMS Manual Threaded Butterfly Ball Valve JN-BFBLV-23-1003

SIZE	ΦDn	RD	L	L1	H	K×K
19	15.8	Rd34×1/8	70	143	60	10×10
25	22.4	Rd40×1/6	85	143	60	10×10
32	28.8	Rd48×1/6	85	143	60	10×10
38	35.1	Rd60×1/6	100	143	68	10×10
51	47.8	Rd70×1/6	102	143	85	10×10
63	60.5	Rd85×1/6	125	143	107	10×10
76	73.2	Rd98×1/6	135	186	117	11×11
89	84.9	Rd105×1/6	135	186	117	11×11
101.6	97.6	Rd125×1/4	170	215	140	14×14
101.6	97.6	Rd132×1/6	170	215	140	14×14

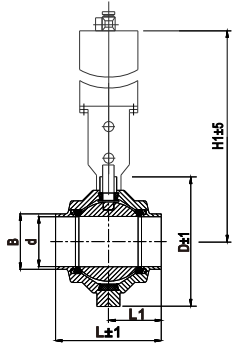
DIN螺纹手动蝶式球阀



DIN Manual Threaded Butterfly Ball Valve JN-BFBLV-23-1004

SIZE	ΦDn	RD	L	L1	H	K×K
DN15	15	Rd34×1/8	70	143	60	10×10
DN20	19	Rd44×1/6	70	143	60	10×10
DN25	25	Rd52×1/6	85	143	68	10×10
DN32	31	Rd58×1/6	85	143	68	10×10
DN40	37	Rd65×1/6	100	143	75	10×10
DN50	49	Rd78×1/6	102	143	85	10×10
DN65	66	Rd95×1/6	125	143	107	10×10
DN80	81	Rd110×1/4	135	186	117	11×11
DN100	100	Rd130×1/4	170	215	140	14×14

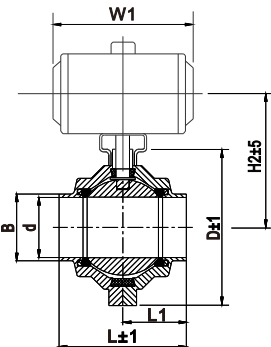
垂直气动蝶式球阀



Vertical Pneumatic Butterfly Ball Valve JN-BFBLV-23-1007

SIZE	d	L1	L	H1
DN25	26	40	80	230
DN40	38	50	100	235
DN50	50	52.5	105	270
DN65	66	62.5	125	-
DN80	81	70	140	-
DN100	100	85	170	-

横式气动蝶式球阀



Horizontal Pneumatic Butterfly Ball Valve JN-BFBLV-23-1008

SIZE	d	D	L1	L	H2	W1
DN25	26	90	40	80	160	AT63
DN40	38	100	50	100	180	AT75
DN50	50	116	52.5	105	195	AT83
DN65	66	142	62.5	125	220	AT92
DN80	81	172	70	140	260	AT105
DN100	100	200	85	170	300	AT125





Synopsis 简介

◎ The stainless steel sanitary flange ball valve is a clean-grade ball valve installed in the pipeline system through a flange connection, suitable for food, dairy, biopharmaceutical and other industries. Its ball body is designed with a full bore, a smooth inner wall, no dead angle, low fluid resistance, and easy cleaning and disinfection. The flange connection structure is stable and reliable, suitable for frequent disassembly or high-intensity working conditions.

◎ 不锈钢卫生法兰球阀是一种通过法兰连接安装在管道系统中的洁净级球阀，适用于食品、乳品、生物制药等行业。其球体全通径设计，内壁光滑、无死角，流体阻力小，便于清洗和消毒。法兰连接结构稳固可靠，适合频繁拆装或高强度工况下使用。



Description 设计说明

◎ The stainless steel sanitary flange ball valve adopts a full-bore straight-through structure, and the ball is flush with the inner wall of the pipe to ensure smooth passage of the fluid without retention. The inner surface of the valve body is mirror-polished and meets 3A, EHEDG and other sanitary standards. The flange connection design is sturdy, which facilitates the stable installation and frequent disassembly and maintenance of the pipeline, and is suitable for sanitary systems with high cleanliness requirements and high pressure conditions.

◎ 不锈钢卫生法兰球阀采用全通径直通结构，球体与管道内壁齐平，确保流体顺畅通过且无滞留。阀体内表面镜面抛光，符合3A、EHEDG等卫生标准。法兰连接设计坚固，便于管道的稳固安装与频繁拆卸维护，适用于高洁净要求和较高压力工况的卫生级系统。



Working principle 工作原理

◎ The stainless steel sanitary flange ball valve realizes fluid on-off control by rotating the ball with a through hole. When the ball channel is aligned with the pipeline, the medium flows smoothly; after rotating 90 degrees, the ball closes the channel and cuts off the fluid. Its full-bore design makes the flow resistance small, the inner cavity is smooth and has no retention, which is convenient for CIP/SIP cleaning and is suitable for fluid control systems with high hygiene requirements.

◎ 不锈钢卫生法兰球阀通过旋转带通孔的球体实现流体通断控制。当球体通道与管道对齐时，介质顺畅流通；旋转90度后，球体封闭通道，切断流体。其全通径设计使流阻小，内腔光滑无滞留，便于CIP/SIP清洗，适用于高卫生要求的流体控制系统。



Features 特点

◎ Full bore design, small flow resistance
◎ Smooth inner wall, no dead corners, easy to clean
◎ Solid flange connection, reliable sealing
◎ Suitable for CIP/SIP online cleaning
◎ High hygiene standards, prevent pollution
◎ Support manual, pneumatic, and electric drive

◎ 全通径设计，流阻小
◎ 内壁光滑，无死角，易清洗
◎ 法兰连接稳固，密封可靠
◎ 适用于CIP/SIP在线清洗
◎ 高卫生标准，防止污染
◎ 支持手动、气动、电动驱动



Application 应用

◎ Stainless steel sanitary flange ball valves are widely used in industries with strict hygiene requirements such as food processing, dairy production, beverage filling, biopharmaceuticals, cosmetics and fine chemicals. Its flange connection structure is stable and reliable, suitable for pipeline systems that require frequent disassembly and assembly, high-intensity operation and high cleanliness standards, ensuring the sealing, stability and cleanliness of the production process.

◎ 不锈钢卫生法兰球阀广泛应用于食品加工、乳品生产、饮料灌装、生物制药、化妆品及精细化工等对卫生要求严格的行业。其法兰连接结构稳固可靠，适用于需要频繁拆装、高强度运行和高洁净标准的管道系统，确保生产过程的密封性、稳定性和清洁性。

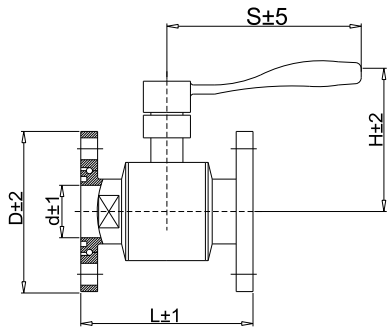


Technical design SPEC 技术规格

◎ Diameter range: DN15□DN100 or 1/2"□4
◎ Working pressure: ≤10 bar
◎ Working temperature: -10°C ~ 150°C (depending on the sealing material)
◎ Connection method: DIN, ISO, ASME and other standard flanges
◎ Ball structure: full-diameter design
◎ Operation mode: manual, pneumatic, electric optional

◎ 通径范围：DN15 ~ DN100 (1/2" ~ 4")
◎ 工作压力：≤10 bar
◎ 工作温度：-10°C ~ 150°C (取决于密封材质)
◎ 连接方式：DIN、ISO、ASME等标准法兰
◎ 球体结构：全通径设计
◎ 操作方式：手动、气动、电动可选

卫生级法兰球阀



Sanitary Flange Ball Valve JN-FLBLV 1001

SIZE	d	D	L	H	S
DN15	16	100	100	60	120
DN25	28	110	130	85	150
DN32	35	130	140	95	150
DN40	42	140	150	108	165
DN50	50	160	164	115	165
DN65	66	180	210	128	220
DN80	80	200	230	146	240
DN100	100	220	260	190	240



直通隔膜阀
Straight Way Diaphragm Valve



U型焊接隔膜阀
U Type welded Diaphragm Valve



气动隔膜阀带控制器
Pneumatic diaphragm valve with controller



U型快装隔膜阀
U Type Clamped Diaphragm Valve



T型隔膜阀
T Type Diaphragm Valve



锻造型隔膜阀
Forged Diaphragm Valve



L型隔膜阀
L Type Diaphragm Valve



锻造型隔膜阀
Forged Diaphragm Valve



气动直通隔膜阀
Pneumatic Straight Diaphragm Valve

