



SANITARY PROCESS SERIES

Stainless Steel Sanitary Valves

BALL | BUTTERFLY | DIAPHRAGM | CHECK | SAMPLE



BEYOND FLUID

www.beyondfluid.com

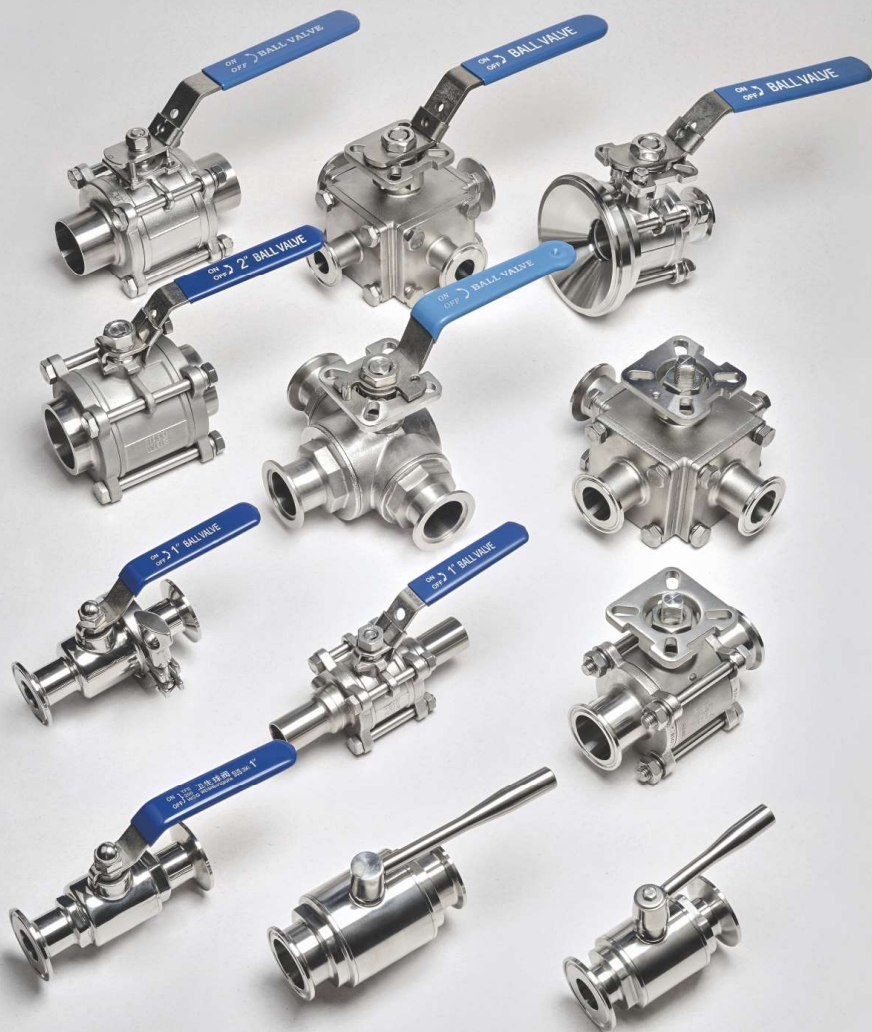
2026 EDITION

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SANITARY 卫生级球阀系列 BALL VALVE SERIES



Beyond Fluid

12 TECHNOLOGICAL PROCESS 十二道工艺流程



每个产品都经过12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！

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!

Beyond Fluid

3 PC BALL VALVE (ENCAPSULATED/HALF-PACK) 三片式球阀(全包/半包)



快装气动三片式全包半包球阀
Clamped Pneumatic 3pc
Encapsulated Half-Pack Ball Valve



快装电动三片式全包半包球阀
Clamped Electric 3PC
Encapsulated Half-Pack Ball Valve



焊接手动三片式全包半包球阀
Welded Manual 3pc
Encapsulated Half-Pack Ball Valve



螺纹手动三片式全包半包球阀
Threaded Manual 3pc
Encapsulated Half-Pack Ball Valve



快装手动三片式全包半包球阀
Clamped Manual 3pc
Encapsulated Half-Pack Ball Valve



快装手动三片式高平台全包半包球阀
Clamped Manual 3PC High
Platform Encapsulated Half-Pack Ball Valve



法兰手动三片式高平台全包半包球阀
Flanged Manual 3PC
High Platform Encapsulated Half-Pack Ball Valve

3 PC BALL VALVE (ENCAPSULATED/HALF-PACK) 三片式球阀(全包/半包)

应用

主要应用于食品、饮料、酿酒、生物制药、化工等领域。

设计特点

- 全包覆式阀座设计，无滞留高洁净，满足CIP SIP杀菌和清洗要求，耐温-40℃~+150℃，压力：0~10bar。
- 可配置各种执行机构，如电动、不锈钢立式气动、卧式气动、手柄（可带锁扣），还可加装控制单元、定位器、位置传感器等可兼容自动控制系统。
- 无论何种连接方式，阀体都可更换，且不会改变阀门的总长度。
- 连接方式：快装、焊接、螺纹、法兰
- 物料接触部位材质为304/316L，其它部位304；
- 密封圈材质：PTFE，符合FDA117.2600
- 尺寸：1/2" -6" /DN15-DN150
- 标准：3A、DIN、SMS、IDF、RJT、BPE、ISO

APPLICATIONS

It is applied in food, beverage, wine, pharmaceutical and chemical industries.

DESIGN FEATURES

- All-inclusive tee design, no stranded high clean, meet the requirement of CIP and SIP sterilization and cleaning, and heat resistance of -40℃~+150℃, the highest pressure 0~10bar.
- Available with a variety of structures, such as electric pneumatic, stainless steel, horizontal vertical pneumatic, key manually handle can also be equipped with the control the unit, location, position sensor, and other compatible automatic control system.
- The valve body can be replaced in any connections and the length will not change.
- Connection: clamp, weld, thread, flange
- Material for the part contacted with media is 304/316L, other part is 304.
- Sealing material: PTFE, it is according to FDA117.2600
- Size: 1/2" -6" /DN15-DN150
- Standard: 3A、DIN、SMS、IDF、RJT、BPE、ISO

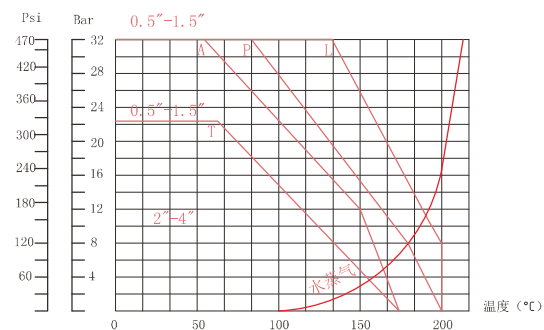
球阀流量系数KV值

BALL VALVE FLOW COEFFICIENT KV VALUE

公称口径	15	20	25	32	40	50	65	80	100	125
Kv 值	21	38	72	112	170	273	384	512	940	1452

球阀压力-温度曲线图

PRESSURE AND TEMPERATURE CURVE



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

说明：测试条件，介质水
Note: test under water

三片式全包半包球阀扭矩表

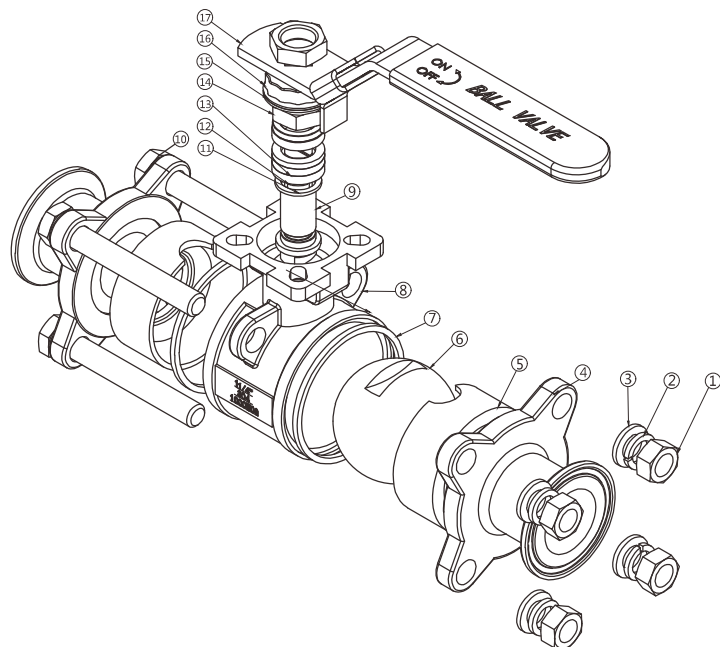
THE N.M OF 3 PC ENCAPSULATED HALF-PACK BALL VALVE

SIZE	1/2"-3/4"	1"/DN25	1.25"/DN32	1.5"/DN40	2"/DN50	2.5"/DN65	3"	Dn80	4"/DN100
扭矩N.M	6	10	12	14	20	40	75	90	110

选择执行器时建议增加20%安全余量

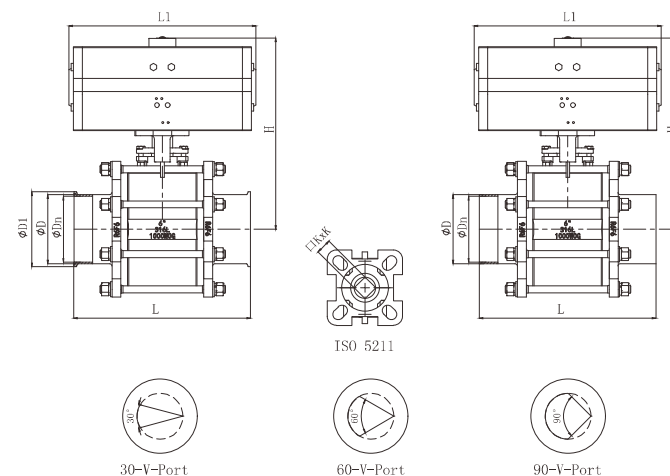
Advice: increasing 20% Safety Margin When Selecting Actuators

3 PC BALL VALVE (ENCAPSULATED/HALF-PACK) 三片式球阀(全包/半包)



NO.	DESCRION	NO.	DESCRION
01	螺母/Hex Nut	10	六角头螺栓/Bolt
02	标准型弹性垫圈/Bolt Elastic Washer	11	阀杆垫圈/Seal Ring
03	平垫圈/Bolt Washer	12	O型圈/O Ring
04	阀盖/Valve End	13	三组合填料/Stem Packing
05	阀座/Valve Seat	14	六角薄螺母/Hex Nut
06	球体/Ball	15	碟形弹簧/Gland Ring
07	四氟线条/Body Seal	16	止退垫/Back Stop Pad
08	阀体/Valve Body	17	手柄/Valve Handle
09	阀杆/Stem		

3 PC BALL VALVE (ENCAPSULATED/HALF-PACK) 三片式球阀(全包/半包)



3A 气动三片式全包半包球阀 (焊接/快装)

3A PNEUMATIC 3PC ENCAPSULATED HALF-PACK BALL VALVE (WELD/CLAMP)

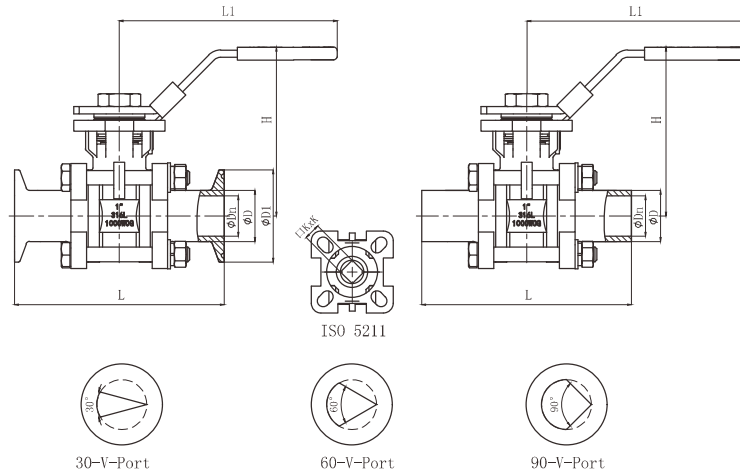
SIZE	ΦDn	ΦD	ΦD1	L	L1	H	□K×K
1/2"	9.4	12.7	25.2	90	155	125	9×9
3/4"	15.8	19.1	50.5	102	155	131	9×9
1"	22.1	25.4	50.5	115	168	157	11×11
1.25"	28.5	31.8	50.5	125	168	165	11×11
1.5"	34.8	38.1	50.5	138	219	195	14×14
2"	47.5	50.8	64	156	219	201	14×14
2.5"	60.2	63.5	77.5	170	249	230	14×14
3"	72.9	76.2	91	197	274	258	17×17
4"	97.4	101.6	119	242	315	292.5	17×17
6"	146.8	152.4	166.87	394	417	426	27×27

DIN气动三片式全包半包球阀 (焊接/快装)

DIN PNEUMATIC 3PC ENCAPSULATED HALF-PACK BALL VALVE (WELD/CLAMP)

SIZE	ΦDn	ΦD	ΦD1	L	L1	H	□K×K
DN15	15	18	34	90	155	125	9×9
DN20	19	22	34	102	155	131	9×9
DN25	25	28	50.5	115	168	157	11×11
DN32	31	34	50.5	125	168	165	11×11
DN40	37	40	50.5	138	219	195	14×14
DN50	49	52	64	156	219	201	14×14
DN65	66	70	91	170	249	230	14×14
DN80	81	85	106	197	274	258	17×17
DN100	100	104	119	242	315	292.5	17×17
DN125	125	129	144.5	318	355	345.5	27×27
DN150	150	154	183	394	417	426	27×27

3 PC BALL VALVE (ENCAPSULATED/HALF-PACK) 三片式球阀(全包/半包)



3A 手动三片式全包半包球阀 (焊接/快装)

3A MANUAL 3PC ENCAPSULATED HALF-PACK BALL VALVE (WELD/CLAMP)

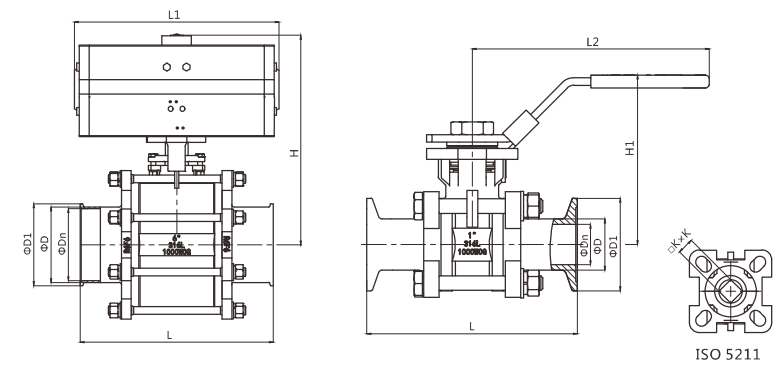
SIZE	ΦDn	ΦD	ΦD1	L	L1	H	□K×K
1/2"	9.4	12.7	25.2	90	130	65	9×9
3/4"	15.8	19.1	50.5	102	130	69	9×9
1.0"	22.1	25.4	50.5	115	170	92	11×11
1.25"	28.5	31.8	50.5	125	170	99	11×11
1.5"	34.8	38.1	50.5	138	173	118	14×14
2.0"	47.5	50.8	64	156	173	125	14×14
2.5"	60.2	63.5	77.5	170	223	142	14×14
3.0"	72.9	76.2	91	197	335	153	17×17
4.0"	97.4	101.6	119	242	335	169	17×17
6.0"	146.8	152.4	166.87	394	680	267	27×27

DIN 手动三片式全包半包球阀 (焊接/快装)

DIN MANUAL 3PC ENCAPSULATED HALF-PACK BALL VALVE (WELD/CLAMP)

SIZE	ΦDn	ΦD	ΦD1	L	L1	H1	□K×K
DN15	15	18	34	90	130	65	9×9
DN20	19	22	34	102	130	69	9×9
DN25	25	28	50.5	115	170	92	11×11
DN32	31	34	50.5	125	170	99	11×11
DN40	37	40	50.5	138	173	118	14×14
DN50	49	52	64	156	173	125	14×14
DN65	66	70	91	170	223	142	14×14
DN80	81	85	106	197	335	153	17×17
DN100	100	104	119	242	335	169	17×17
DN125	125	129	144.5	318	570	205	27×27
DN150	150	154	183	394	680	267	27×27

3 PC BALL VALVE (ENCAPSULATED/HALF-PACK) 三片式球阀(全包/半包)



三片式高平台球阀 (真空式)

3PC HIGH PLATFORM BALL VALVE (VACUUM CONNECTION)

SIZE	ΦDn	ΦD	ΦD1	L	L1	L2	H	H1	□K×K
KF10	9.4	12.2	30	90	155	130	125	65	9×9
KF16	15.7	17.2	30	102	155	130	131	69	9×9
KF25	22.1	26.2	40	114	168	170	157	92	11×11
KF40	34.8	41.2	55	138	168	170	165	99	11×11
KF50	47.5	52.2	75	156	219	173	195	118	14×14

手动三片式球阀 (工业级内丝)

MANUAL 3PC BALL VALVE (FEMALE THREAD)

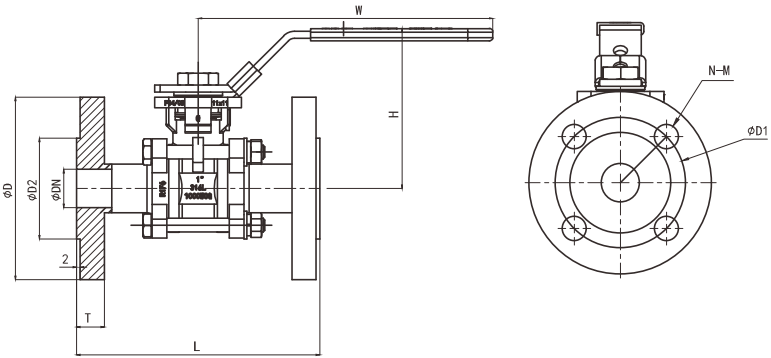
SIZE	ΦDn	ΦD	L	L1	H
3/8"	12	BSPT3/8	64	105	56
1/2"	15	BSPT1/2	69	105	56
3/4"	20	BSPT3/4	79	105	62
1.0"	25	BSPT1	90	114	68.5
1.25"	32	BSPT1.25	104	131	76.5
1.5"	38	BSPT1.5	115	169	93
2.0"	50	BSPT2	135	169	99.5

三片式半包手动球阀 (韩式)

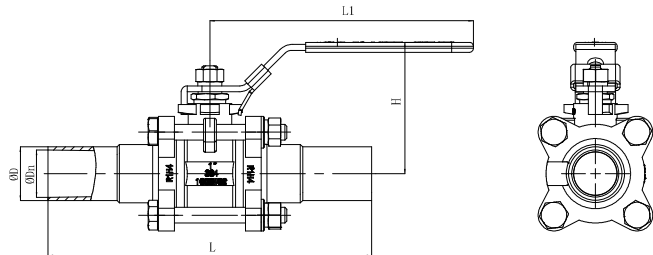
3PC HALF PACK MANUAL BALL VALVE (KOREAN)

SIZE	ΦDn	ΦD	L	L1	H
1/2"	9.4	25.2/50.5	90	105	56
3/4"	15.8	25.2/50.5	102	105	60
1.0"	22.1	50.5	110	135	66
1.5"	34.8	50.5	140	170	88
2.0"	47.5	64	164	170	95
2.5"	60.2	77.5	210	210	131
3.0"	72.9	91	220	223	143
4.0"	97.4	119	242	320	164

3 PC BALL VALVE
(ENCAPSULATED/HALF-PACK)
三片式球阀(全包/半包)



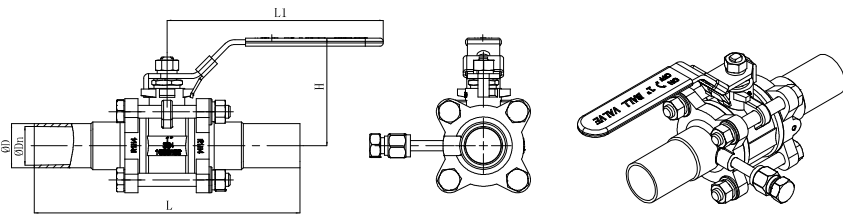
3 PC BALL VALVE
(ENCAPSULATED/HALF-PACK)
三片式球阀(全包/半包)



三片式加长焊手动球阀

3PC EXTENDED WELDED MANUAL BALL VALVE

SIZE	ΦDn	ΦD	H	L	L1
1/2"	9.4	12.7	56	120	105
3/4"	15.8	19.1	60	156	105
1.0"	22.1	25.4	66	164	135
1.25"	28.5	31.8	78	172	135
1.5"	34.8	38.1	88	194	170
2.0"	47.5	50.8	95	222	170
2.5"	60.2	63.5	131	235	210
3.0"	72.9	76.2	143	248	223
4.0"	97.4	101.6	164	325	320



三片式加长焊带吹扫口手动球阀

3PC EXTENDED WELDED PURGE PORT MANUAL BALL VALVE

SIZE	ΦDn	ΦD	H	L	L1
1/2"	9.4	12.7	56	120	105
3/4"	15.8	19.1	60	156	105
1.0"	22.1	25.4	66	164	135
1.25"	28.5	31.8	78	172	135
1.5"	34.8	38.1	88	194	170
2.0"	47.5	50.8	95	222	170
2.5"	60.2	63.5	131	235	210
3.0"	72.9	76.2	143	248	223
4.0"	97.4	101.6	164	325	320

尺寸规格未尽，还有GB,JIS,ANSI,BPE等不同口径，欢迎来询。
There are different sizes and specifications, such as GB, JIS, ANSI, BPE, etc. Welcome to inquire.

手动三片式高平台球阀（法兰）

MANUAL 3PC HIGH PLATFORM BALL VALVE (FLANGE)

SIZE	L	ΦD	ΦD1	ΦD2	ΦDN	T	H	W	N-M	ISO5211
DN15	126	95	65	45	9.4	14	65	170	4-Φ14	F04/F05
DN20	130	105	75	58	15.8	16	91	170	4-Φ14	F04/F05
DN25	143	115	85	68	22	16	98	170	4-Φ14	F04/F05
DN32	170	140	100	78	28.5	18	108	170	4-Φ18	F04/F05
DN40	170	150	110	88	34.8	18	115	215	4-Φ18	F05/F07
DN50	190	165	125	102	47.5	19	125	215	4-Φ18	F05/F07
DN65	234	185	145	122	60.2	20	155	325	8-Φ18	F07/F10
DN80	250	200	160	138	72.9	20	165	325	8-Φ18	F07/F10
DN100	280	220	180	158	97.4	22	173	325	8-Φ18	F07/F10
DN125	335	250	210	188	125	22	220	570	8-Φ18	F10/F12
DN150	436	285	240	212	146.9	24	270	680	8-Φ22	F10/F12



TANK BOTTOM BALL VALVE

罐底球阀



气动快装三片式罐底球阀
Pneumatic Clamped 3PC Tank Bottom Ball Valve



手动快装三片式罐底球阀
Manual Clamped 3PC Tank Bottom Ball Valve

应用

罐底球阀配有特殊罐底连接面法兰，用于焊接在反应罐或容器底部，其端部轮廓和半径具有有效的重力排放作用，平滑的锥形孔和罐内超近距离的球体可防止介质在阀门入口处堆积，确保排泄畅通。

设计特点

- 流体阻力小，其阻力系数与同长度的管段相等
- 结构简单、体积小、重量轻
- 操作方便，开闭迅速，从全开到全关只要旋转90°，便于远距离控制。
- 维修方便，结构简单，密封圈拆卸更换比较方便
- 球阀的密封材料使用PTFE，在全开或全闭时，球体和阀座的密封面与介质隔离，介质通过时，不会引起密封面的侵蚀。
- 连接方式：快装、焊接、螺纹、法兰
- 尺寸：1" -4"
- 标准：3A, DIN, SMS, IDF, RJT, BPE, ISO

APPLICATIONS

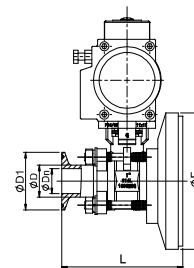
This ball valve with a special tank bottom flange connection, be welded on the tank bottom. The design of contour and radius have effective gravity discharge function. Also smooth taper hole and the sphere closest to the bottom, which prevents the medium from staying at the entrance of the valve. Make sure to drain smoothly.

DESIGN FEATURES

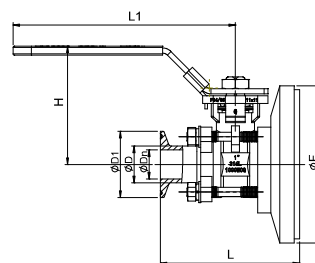
- Small fluid resistance, resistance equal to the same length section of pipe
- Simple structure, small volume, light weight
- Easy to operate, open and close rapidly, from fully open to fully closed only 90° degree rotation, convenient remote control.
- Easy maintenance, simple structure, convenient to disassembly and replace the seal
- The ball valve is sealed with PTFE, at fully open or fully closed sphere and the sealing surface of the valve seat are isolated with the medium. When medium trasiting, these will not cause erosion of the sealing surface.
- Connection: clamp, weld, thread, flange
- Size: 1" -4"
- Standard: 3A, DIN, SMS, IDF, RJT, BPE, ISO

TANK BOTTOM BALL VALVE

罐底球阀



NO.RVB160201



NO.RVB160202

3A 气动三片式全罐底球阀（焊接/快装）

3A PNEUMATIC 3PC ENCAPSULATED TANK BOTTOM VALVE (WELD/CLAMP)

SIZE	ΦDn	ΦD	ΦD1	ΦF	L	L1	H
1"	22.1	25.4	50.5	120/80	106	155	114.5
1.5"	34.8	38.1	50.5	120	125	168	177.5
2"	47.5	50.8	64	150	140	219	202
2.5"	60.2	63.5	77.5	180	155	249	230
3"	72.9	76.2	91	212	176	274	258
4"	97.4	101.6	119	248	210	315	292.5

DIN 气动三片式全罐底球阀（焊接/快装）

DIN PNEUMATIC 3PC ENCAPSULATED TANK BOTTOM VALVE (WELD/CLAMP)

SIZE	ΦDn	ΦD	ΦD1	ΦF	L	L1	H
DN25	25	28	50.5	120	106	155	114.5
DN40	37	40	50.5	120	125	168	177.5
DN50	49	52	64	150	140	219	202
DN65	66	70	91	180	155	249	230
DN80	81	85	106	212	176	274	258
DN100	100	104	119	248	210	315	292.5

3A 手动三片式全罐底球阀（焊接/快装）

3A MANUAL 3PC ENCAPSULATED TANK BOTTOM VALVE (WELD/CLAMP)

SIZE	ΦDn	ΦD	ΦD1	ΦF	L	L1	H
1"	22.1	25.4	50.5	120	106	170	78
1.5"	34.8	38.1	50.5	120	125	173	98
2"	47.5	50.8	64	150	140	173	107
2.5"	60.2	63.5	77.5	180	155	223	130
3"	72.9	76.2	91	212	176	335	153
4"	97.4	101.6	119	248	210	335	169

DIN 手动三片式全罐底球阀（焊接/快装）

DIN MANUAL 3PC ENCAPSULATED TANK BOTTOM VALVE (WELD/CLAMP)

SIZE	ΦDn	ΦD	ΦD1	ΦF	L	L1	H
DN25	25	28	50.5	120	106	170	78
DN40	37	40	50.5	120	125	173	98
DN50	49	52	64	150	140	173	107
DN65	66	70	91	180	155	223	130
DN80	81	85	106	212	176	335	153
DN100	100	104	119	248	210	335	169

NEW STYLE BALL VALVE 新型球阀



手动焊接新型球阀
Manual Welded
New Style Ball Valve

手动快装新型球阀
Manual Clamped
New Style Ball Valve

手动螺纹新型球阀
Manual Threaded
New Style Ball Valve

应用

主要应用于食品、饮料、酿酒、生物制药、化工等领域

设计特点

- 有独特的花纹表面金属光泽好，并采用锻造式的（在高温下挤压成型）工艺，结构分子比较紧密，强度高，更结实耐用。
- 结构长度紧凑，采用180°开关设计，拥有更优越的空间。
- 三段式，两头可拆卸，易于拆卸检测，易于清洗。
- 全通径，介质通过速度均匀，受压均匀。
- 连接方式：快装、焊接、螺纹、法兰
- 物料接触部位材质为304/316L，其它部位304。
- 密封圈材质：PTFE，符合FDA117.2600
- 尺寸：1/2" -4 "/DN15-DN100
- 标准：3A, DIN, SMS, IDF, RJT, BPE, ISO

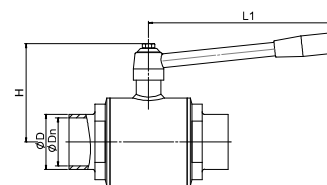
APPLICATIONS

It is widely used in food, beverage, beer, biopharmaceutical, chemical industry and so on.

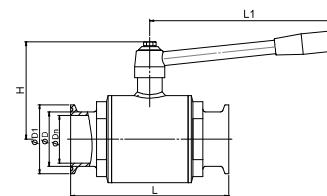
DESIGN FEATURES

- There are special texture patterns on the surface, and the forging(extrusion molding at high temperature) process is adopted to make the structural molecules more compact, high strength and more durable.
- Compact structure, 180° switch design, saving space
- Three-stage, detachable at both ends, easy to disassemble and test, easy to clean.
- Full bore, The medium can pass through uniformly and the stress is uniform
- Connection Type: Clamp, Weld, Thread, Flange
- The material contact part is 304/316L, and the other parts are 304
- Seal Material: PTFE, it is according to FDA117.2600
- Size: 1/2"-4"/DN15-DN100
- Standard: 3A, DIN, SMS, IDF, RJT, BPE, ISO

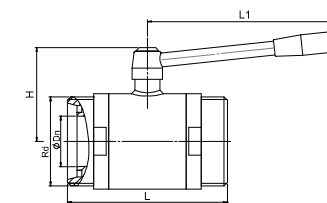
NEW STYLE BALL VALVE 新型球阀



NO.RVB160302



NO.RVB160301



NO.RVB160303

3A 新型直通手动球阀（焊接/快装）

3A NEW STYLE DIRECT WAY MANUAL BALL VALVE (WELD/CLAMP)

SIZE	ΦDn	ΦD	ΦD1	L	L1	H
1/2"	9.4	12.7	25.2	75	97	49
3/4"	15.8	19.1	25.2	100	97	53
1"	22.1	25.4	50.5	100	116	64
1.25"	28.5	31.8	50.5	100	116	64
1.5"	34.8	38.1	50.5	116	140	71
2"	47.5	50.8	64	136	175	93
2.5"	60.2	63.5	77.5	165	200	103
3"	72.9	76.2	91	172	200	110
4"	97.4	101.6	119	260	333	151

DIN 新型直通手动球阀（焊接/快装）

DIN NEW STYLE DIRECT WAY MANUAL BALL VALVE (WELD/CLAMP)

SIZE	ΦDn	ΦD	ΦD1	L	L1	H
DN15	15	18	34	75	97	49
DN20	19	22	34	100	97	53
DN25	25	28	50.5	100	116	64
DN32	31	34	50.5	100	116	64
DN40	37	40	50.5	116	140	71
DN50	49	52	64	136	175	93
DN65	66	70	91	165	200	103
DN80	81	85	106	172	200	110
DN100	100	104	119	260	333	151

DIN 新型直通手动球阀（螺纹）

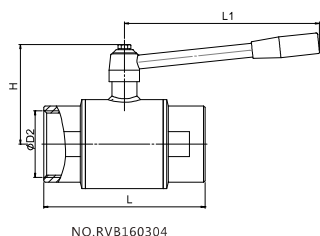
DIN NEW STYLE DIRECT WAY MANUAL BALL VALVE (THREAD)

SIZE	ΦDn	Rd	L	L1	H
DN15	15	Rd34x1/8	87	97	49
DN20	19	Rd44x1/6	97	97	53
DN25	25	Rd52x1/6	109.5	116	64
DN32	31	Rd58x1/6	108	116	64
DN40	37	Rd65x1/6	116	140	71
DN50	49	Rd78x1/6	136	175	93
DN65	66	Rd95x1/6	165	200	103
DN80	81	Rd110x1/4	180	200	110
DN100	100	Rd130x1/4	210	333	151

NEW STYLE BALL VALVE 新型球阀

新型直通手动球阀（内螺纹）

NEW STYLE DIRECT WAY MANUAL BALL VALVE (FEMALE THREAD)

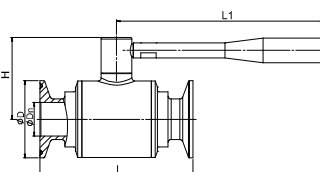


NO.RV8160304

SIZE	DIN			L	L1	H
	G	NPT	BSPT			
1/2"	1/2"	1/2"	1/2"	75.5	97	49
3/4"	3/4"	3/4"	3/4"	75.5	97	53
1"	1"	1"	1"	75.5	116	64
1.25"	1.25"	1.25"	1.25"	94.5	116	64
1.5"	1.5"	1.5"	1.5"	108	140	71
2"	2"	2"	2"	116	175	93
2.5"	2.5"	2.5"	2.5"	136	200	103
3"	3"	3"	3"	165	200	110
4"	4"	4"	4"	180	333	151

3A 新型直通手动球阀B型（快装）

3A NEW STYLE DIRECT WAY MANUAL BALL VALVE B-TYPE (CLAMP)



SIZE	ΦDn	ΦD	L	L1	H
1/2"	9.4	25.2	75	97	43.5
3/4"	15.8	25.2	100	97	46.5
1"	22.1	50.5	100	136	53.5
1.5"	35	50.5	116	136	60.5
2"	48	64	136	177	72



BUTTERFLY BALL VALVE 蝶式球阀



手动快装蝶式球阀
Manual Clamped
Butterfly Type Ball Valve



手动快装蝶式球阀带排污口
Manual Clamped Butterfly
Type Ball Valve With Drain

应用

该系列阀门是一款自动和手动操纵的蝶式球阀系列，因其能很好的处理粘性或含有颗粒物的介质，从而广泛应用于食品、饮料、酿酒、制药及化工领域。

设计特点

- 操纵扭矩小
- 无论何种液体流向，手柄可以安装在侧边的阀体上
- 可配气动或电动执行器
- 可带CIP清洗口
- 工作温度：EPDM(-40°C~+120°C), PTFE(-40°C~+130°C), FPM(-40°C~+180°C),
- 工作压力：0~10bar
- 物料接触部位材质为304/316L，其它部位304，密封材质EPDM, VMQ, FPM
- 连接方式：快装、焊接、螺纹、法兰
- 规格：1/2" - 4" / DN15-DN100
- 标准：3A, DIN, SMS, IDF, RJT, BPE, ISO

APPLICATIONS

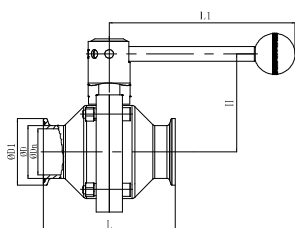
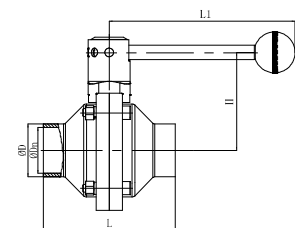
This type of valve is a kind of automatically particulate or manually manipulation of butterfly type ball valve, because of it can be a very good deal with viscous or medium with particulate, which is widely used in food, beverage, pharmaceutical and a chemical industrial piping system, to regulate and control the medium flow in the system.

DESIGN FEATURES

- Small torque moment
- Handle can be installed on the side of the valve body, no matter of the flow direction.
- It can match with pneumatic and electric actuators.
- It can match with CIP wash mouth.
- Working temperature: EPDM(-40°C~+120°C), PTFE(-40°C~+130°C), FPM(-40°C~+180°C),
- Pressure of work: 0~10bar
- Material for the part contacted with media is 304/316L, other parts are 304. Sealing material: EPDM, VMQ, FPM
- Connection: clamp, weld, thread, flange
- Size: 1/2" - 4" / DN15-DN100
- Standards: 3A, DIN, SMS, IDF, RJT, BPE, ISO

BUTTERFLY BALL VALVE

蝶式球阀

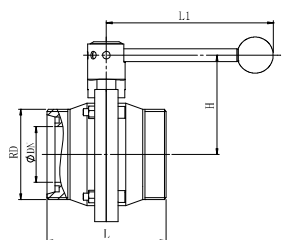


NO.RVB160401

3A 手动蝶式球阀 (焊接/快装)

3A MANUAL BUTTERFLY TYPE BALL VALVE (WELD/CLAMP)

SIZE	ΦDn	ΦD	ΦD1	L	L1	H	□K×K
1/2"	9.4	12.7	25.2	70	143	60	10×10
3/4"	15.8	19.1	25.2	70	143	60	10×10
1"	22.1	25.4	50.5	85	143	68	10×10
1.25"	28.5	31.8	50.5	85	143	68	10×10
1.5"	34.8	38.1	50.5	100	143	75	10×10
2"	47.5	50.8	64	110	143	85	10×10
2.5"	60.2	63.5	77.5	125	143	107	10×10
3"	72.9	76.2	91	135	186	117	11×11
4"	97.4	101.6	119	170	215	140	14×14

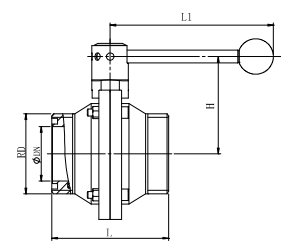


NO.RVB160402

DIN 手动蝶式球阀 (螺纹)

DIN MANUAL BUTTERFLY TYPE BALL VALVE (THREAD)

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



NO.RVB160403

SMS 手动蝶式球阀 (螺纹)

SMS MANUAL BUTTERFLY TYPE BALL VALVE (THREAD)

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

CLAMPED TYPE NON-RETENTION BALL VALVE

卡箍式无滞留球阀



手动快装卡箍式无滞留球阀
Manual Clamped Clamp
Type Non-Retention Ball Valve



手动快装卡箍式无滞留球阀带排污口
Manual Clamped Clamp
Type Non-Retention Ball Valve With Drain

应用

该类型阀门适用于生物制药领域。

APPLICATIONS

This kind of ball valve is applied to pharmacy and biotechnology industries.

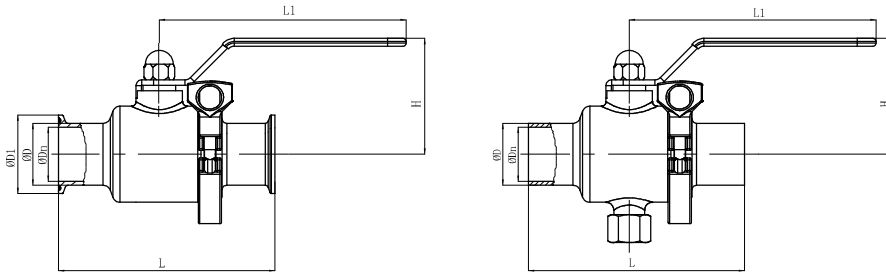
设计特点

- 阀体组合卡箍连接
- 无需专业工具即可拆卸阀门
- 操作扭矩小
- 可带排泄口
- 密封圈材质: PTFE, 符合FDA177.2600
- 连接方式: 快装、焊接、螺纹
- 规格: 1/2" -4 "/DN15-DN100
- 标准: 3A, DIN, SMS, IDF, RJT, BPE, ISO
- 无论何种连接方式, 阀体都可更换, 且不会改变阀门的总长度

DESIGN FEATURES

- Valve bodes combined with clamp connection.
- Easily disassembled without special tools.
- Small Operating torque.
- With cleaning and drainage port.
- Seal Material: PTFE, it is according to FDA177.2600
- Connection: clamp, weld, thread
- Size: 1/2"-4"/DN15-DN100
- Standard: 3A, DIN, SMS, IDF, RJT, BPE, ISO
- The valve body can be replaced in any connections, and the length will not change.

CLAMPED TYPE NON-RETENTION BALL VALVE 卡箍式无滞留球阀



3A 手动卡箍式无滞留球阀 (焊接/快装)

3A MANUAL CLAMP TYPE NON-RETENTION BALL VALVE (WELD/CLAMP)

SIZE	ΦDn	ΦD	ΦD1	L	L1	H
1/2"	9.4	12.7	25.2	90	110	60
3/4"	15.8	19.1	25.2	93	114	62
1"	22.1	25.4	50.5	124	140	63
1.25"	28.5	31.8	50.5	128	140	70
1.5"	34.8	38.1	50.5	139	160	75
2"	47.5	50.8	64	165	175	94
2.5"	60.2	63.5	77.5	190	225	121
3"	72.9	76.2	91	210	250	126
4"	97.4	101.6	119	260	333	147



DIRECT WAY BALL VALVE 直通球阀



快装直通手动球阀
Quick-install Direct Way
Manual Ball Valve



快装直通气动球阀 (不锈钢)
Stainless Steel Quick-install Direct
Way Pneumatic Ball Valve

应用

卫生级直通球阀采用标准电子抛光, 光滑表面确保清洁, 无介质积存区域, 不会产生潜在的污染。快速拆装阀, 使阀门打开和维修快捷容易, 使过程停机时间缩短。广泛应用于如食品、制药、化妆品、洁净蒸汽、酒类、饮料、生化工业过程控制场合。

设计特点

- 流体阻力小
- 球阀的结构简单、体积小、重量轻、易维修
- 操作方便, 开闭迅速, 从全开到全关只要旋转90°。
- 再全开或全闭时, 球体和阀座的密封面与介质隔离, 介质通过时, 不会引起阀门密封面的侵蚀。
- 规格: 1/2" -4", Φ12.7—Φ101.6
- 连接: 快装、焊接、螺纹、法兰等。
- 驱动方式: 手动、气动、电动。
- 标准: ISO、DIN、IDF、SMS、3A等
- 质量: 产品内外用高档抛光设备处理, 达到表面精密度要求。
- 工作压力: 0-10Bar
- 工作温度: -40℃~+150℃

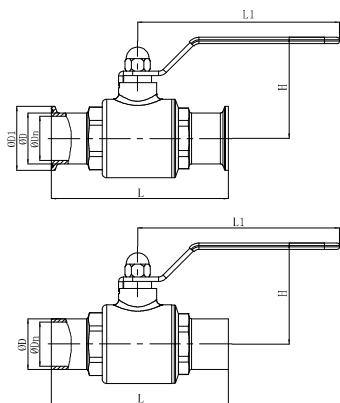
APPLICATIONS

Sanitary direct way ball valve adopts standard electronic polishing, smooth surface to ensure cleanliness, no media accumulation area, no potential pollution. The valve can be assembled and disassembled quickly and easily to open and maintain the valve, and the shutdown time of the process can be shortened. It is widely used in food, pharmaceutical, cosmetics, clean steam, beer, beverage, biochemical industrial process control occasions.

DESIGN FEATURES

- Small fluid resistance
- Simple structure, small volume, light weight and easy maintenance.
- Easy to operate, open and close rapidly, only need to rotate 90° from fully open to fully closed.
- When the valve is fully open or fully closed, the sealing surface of the ball and the valve seat is isolated from the medium and the medium will not cause corrosion to the valve sealing surface when the medium passes.
- Size: 1/2"-4", Φ12.7—Φ101.6
- Connection: Clamp, Weld, Thread, Flange Etc.
- Driving mode: Manual, Pneumatic, Electric
- Standard: ISO、DIN、IDF、SMS、3A etc.
- Quality: The inside and outside of the product are treated with high-end polishing equipment to meet the surface precision requirements
- Working Pressure: 0-10Bar
- Working temperature: -40℃~+150℃

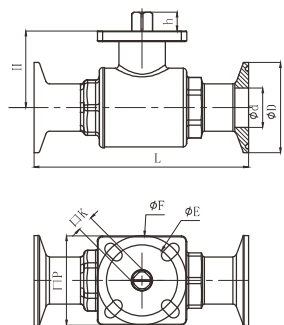
DIRECT WAY BALL VALVE 直通球阀



3A 手动直通球阀 (焊接/快装)

3A MANUAL DIRECT WAY BALL VALVE (WELD/CLAMP)

SIZE	ΦDn	ΦD	ΦD1	L	L1	H
1/2"	9.4	12.7	25.2	75	111	60
3/4"	15.8	19.1	25.2	100	114	62
1"	22.1	25.4	50.5	120	140	65
1.25"	28.5	31.8	50.5	130	140	72
1.5"	34.8	38.1	50.5	140	160	79
2"	47.5	50.8	64	164	175	94
2.5"	60.2	63.5	77.5	189	230	104
3"	72.9	76.2	91	212	246	116
4"	97.4	101.6	119	260	333	151



3A 直通高平台球阀 (焊接/快装)

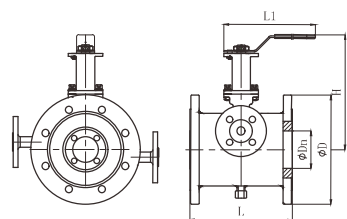
3A DIRECT WAY HIGH PLATFORM BALL VALVE (WELD/CLAMP)

	Φd	ΦD	ΦE	ΦF	L	H	h	□K	□P	扭矩N.M
3/4"	16.5	50.5	40	50	100	34	9	9	50×50	6
1"	22.1	50.5	40	50	120	43	10.5	9	50×50	9
1.25"	28.5	50.5	40	50	130	47	10	9	50×50	14
1.5"	34.8	50.5	40	50	140	53	10	9	50×50	22
1.75"	42	64	40	50	158	60	12	11	50×50	55
2"	47.5	64	40	50	163	64	12	11	50×50	55
2.5"	60.2	77.5	50	70	190	75	16.5	14	64×64	60
3"	72.9	91	50	70	211	88.5	18	14	64×64	105
3.5"	85	106	70	102	232	100	18	17	90×90	130
4"	97.4	119	70	102	260	125	18.5	17	90×90	165

手动高平台保温球阀 (法兰)

MANUAL HIGH PLATFORM JACKETED BALL VALVE (FLANGE)

SIZE	ΦDn	ΦD	L	L1	H
DN20	19	150	130	130	178
DN25	25	165	140	170	207
DN40	40	200	173	217	237
DN50	50	200	203	217	247
DN80	80	250	240	326	282
DN100	98	285	267	326	300



3 WAY BALL VALVE 三通球阀



手动快装三通球阀
Manual Clamped 3 Way Ball Valve



气动快装三通球阀
Pneumatic Clamped 3 Way Ball Valve



电动快装三通球阀
Electric Clamped 3 Way Ball Valve

应用

该类型阀门系列是一款自动或手动操作的球阀，主要应用于酿酒、饮料、乳品、生物制药、化妆品、精细化工、电力以及锂电等行业。

设计特点

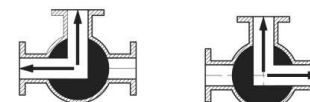
- 结构简单、体积小、重量轻、不占用多余空间
- 外观光亮，易于清洗保养
- 扭矩小，操作方便，维修简单
- 连接方式：快装、焊接、螺纹、法兰
- 无论何种连接，阀门长度都可以保持一致，方便更换
- 可装配气动执行器、电动执行器、智能控制器、调节器等
- 物料接触部位材质为304/316L，其他部位304
- 密封材质PTFE、VMQ、EPDM、FPM
- 此阀门有T型和L型供客户选择，满足工艺管线布局，如图：

APPLICATIONS

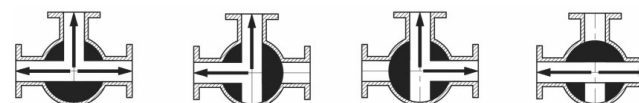
This type of valve series an automatically or manually operated ball valve, mainly used in industries such as wine, beverages, dairy, biopharmaceuticals, cosmetics, fine chemicals, electric power, and lithium batteries.

DESIGN FEATURES

- Simple structure, small size, light weight, no extra space.
- Bright appearance, easy to clean and maintain.
- Small torque, convenient operation and simple maintenance.
- Connection method: tri clamp, welding, thread, flange.
- Regardless of the connection, the valve length can be kept the same for easy replacement.
- It can be equipped with pneumatic actuators, electric actuators, intelligent controllers, regulators, etc.
- The material contact parts are made of 304/316L, the other parts are 304.
- The sealing materials are PTFE, VMQ, EPDM, FPM.
- This type of valve has T-type and L-type for customers to choose to meet the process pipeline layout. As shown in the figure:



三通球阀L型球芯
L Port Ball



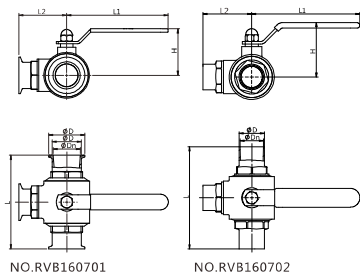
三通球阀T型球芯
T Port Ball

3 WAY BALL VALVE 三通球阀

3A 手动三通球阀 (焊接/快装)

3A MANUAL 3 WAY BALL VALVE (WELD/CLAMP)

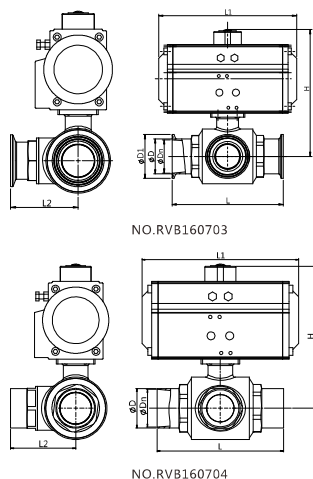
SIZE	ΦDn	ΦD	ΦD1	L	L1	L2	H
3/4"	15.8	19.1	25.2	101	120	55	59
1"	22.1	25.4	50.5	120	132	61	70
1.25"	28.5	31.8	50.5	130	136	65	73
1.5"	34.8	38.1	50.5	153	160	73	80
2"	47.5	50.8	64	164	178	84	80
2.5"	60.2	63.5	77.5	200	225	101	104
3"	72.9	76.2	91	210	250	105	116
3.5"	84.7	88.9	106	232	268	115	135
4"	97.4	101.6	119	260	300	130	151



3A 气动三通球阀 (焊接/快装)

3A PNEUMATIC 3 WAY BALL VALVE (WELD/CLAMP)

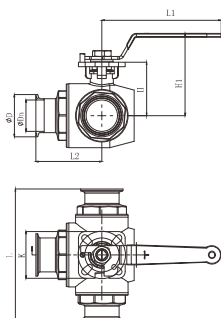
SIZE	ΦDn	ΦD	ΦD1	L	L1	L2	H
3/4"	15.8	19.1	25.2	101	155	55	123
1"	22.1	25.4	50.5	120	155	61	132
1.25"	28.5	31.8	50.5	130	168	65	153
1.5"	34.8	38.1	50.5	153	168	73	157
2"	47.5	50.5	64	164	219	84	185
2.5"	60.2	63.5	77.5	200	249	101	211
3"	72.9	76.2	91	210	274	105	236
3.5"	84.7	88.9	106	232	274	115	248
4"	97.4	101.6	119	260	315	130	270



手动三通球阀 (韩式)

MANUAL 3 WAY BALL VALVE (KOREAN)

SIZE	ΦDn	ΦD	L	L1	L2	H	H1	K
3/4"	16	50.5	122	135	61	42.5	79	42
1.0"	22.1	50.5	152	135	76	59.5	96	50
1.5"	34.8	50.5	175	181	87.5	72.5	113	71
2.0"	47.5	64	201	181	100.5	81.5	121	71
2.5"	60	77.5	228	181	114	93	134	71



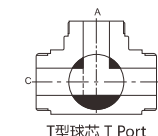
THREADED THREE-WAY FULL BORE MANUAL BALL VALVE 全通径三通无滞留球阀



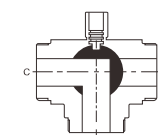
手动快装全通径三通球阀
Manual Clamped 3 Way
Full Bore Encapsulated Ball Valve



气动快装全通径三通球阀
Pneumatic Clamped 3 Way
Full Bore Encapsulated Ball Valve



T型球芯 T Port



L型球芯 L Port

应用

广泛应用于食品加工、饮料、酿酒、生物制药等领域。

设计特点

- 全包覆式阀座设计，无滞留高洁净，满足CIP SIP杀菌和清洗要求，耐温-40°C-150°C，压力0-10Bar。
- 密封圈材质：PTFE，符合FDA117.2600
- 连接方式：快装、焊接、螺纹
- 控制方式：手动、气动、电动
- Size：1"-4"
- 标准：3A, DIN, SMS, IDF, RJT, BPE, ISO
- 无论何种连接方式，阀体都可更换，且不会改变阀门的总长度
- L型和T型可现场更换，进出口方向可任意组合都保证无滞留，无死角。

APPLICATIONS

This kind of valve is widely used in the field of food processing, beverages, wine, Biopharmaceutical etc.

DESIGN FEATURES

- Fully covered valve seat design, no retention and high cleanliness, meet CIP SIP sterilization and cleaning requirements, temperature resistance -40°C-150°C, pressure 0-10Bar
- Seal Material: PTFE, it is according to FDA117.2600
- Connection method: quick assembly, welding, thread
- Control mode: manual, pneumatic, electric
- Size: 1"-4"
- Standard: 3A, DIN, SMS, IDF, RJT, BPE, ISO
- Regardless of the connection method, the valve body can be replaced without changing the total length of the valve
- L-type and T-type can be replaced on site, and the direction of import and export can be combined in any way to ensure no stagnation and no dead angle.

全通径三通球阀扭矩表

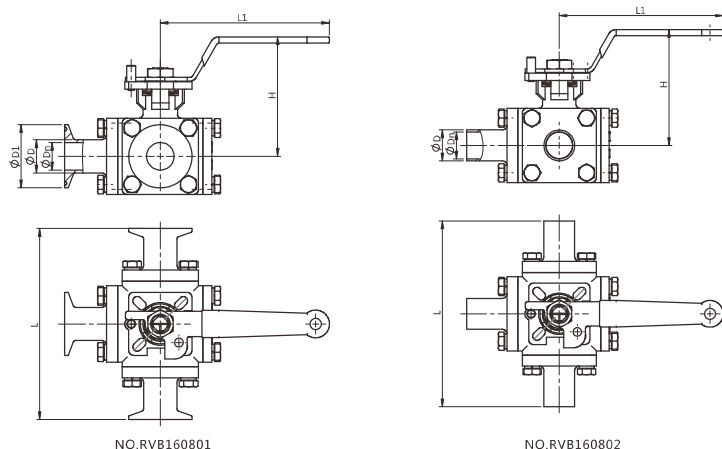
THE N.M OF 3 WAY FULL BORE BALL VALVE

SIZE	1/2" -3/4"	1" /DN25	1.25" /DN32	1.5" /DN40	2" /DN50	2.5" -3"	Dn65	Dn80	4" /DN100
扭矩N.M	10	15	20	25	35	50	75	95	120

选择执行器时建议增加20%安全余量

Advice: increasing 20% Safety Margin When Selecting Actuators

THREADED THREE-WAY FULL BORE MANUAL BALL VALVE 全口径三通无滞留球阀



3A 全口径三通全包球阀（焊接/快装）

3A 3 WAY FULL BORE ENCAPSULATED BALL VALVE (WELD/CLAMP)

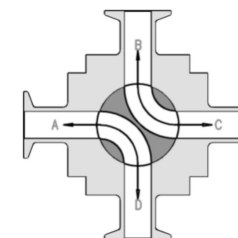
SIZE	ΦDn	ΦD	ΦD1	L	L1	H
1/2"	9.4	12.7	25.2	118	135	77
3/4"	15.8	19.1	25.2	127	135	78
1"	22.1	25.4	50.5	152	135	95
1.25"	28.5	31.8	50.5	174	181	113
1.5"	34.8	38.1	50.5	174	181	113
2"	47.5	50.8	64	204	181	121
2.5"	60.2	63.5	77.5	227	181	135
3"	72.9	76.2	91	262	389	132
4"	97.4	101.6	119	319	489	149

DIN 全口径三通全包球阀（焊接/快装）

DIN 3 WAY FULL BORE ENCAPSULATED BALL VALVE (WELD/CLAMP)

SIZE	ΦDn	ΦD	ΦD1	L	L1	H
DN15	15	18	34	118	135	77
DN20	19	22	34	127	135	78
DN25	25	28	50.5	152	135	95
DN32	31	34	50.5	174	181	113
DN40	37	40	50.5	174	181	113
DN50	49	52	64	204	181	121
DN65	66	70	91	227	181	135
DN80	81	85	106	262	389	132
DN100	100	104	119	319	489	149

"LL" 4 WAY FULL BORE ENCAPSULATED BALL VALVE "LL" 全口径四通全包球阀



应用

可应用于食品、饮酒、酿酒、炼油、化妆品、制药和化学制品行业中要求无滞留同时对两种介质的流向进行切换的管道。

APPLICATIONS

Pipe System Applied In Food, Wine, Brewery, Refining, Cosmetics, Pharmaceutical And Chemicals Industries, Required Non-retention And Switch The Direction Of Two Media.

产品特点

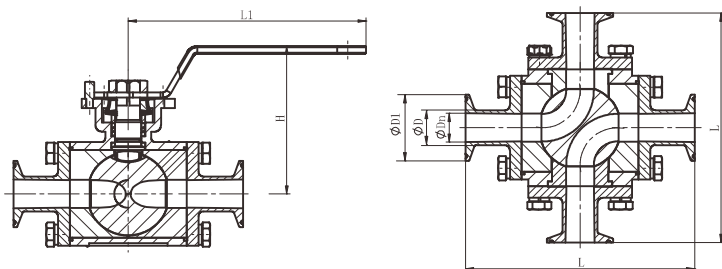
- 1、本系列阀门可配多种驱动装置。
- 2、本系列阀门介质流向工作原理：
 - 如图所示，LL型四通球阀只需操作扳手或执行器将球体转动90°，同时对两种介质的流向进行切换，既方便而迅速，实现阀多用的效果。
 - 以前需4个阀门，供水时阀A、D开启，阀B、C关闭；反向供水时阀B、C开启，阀A、D关闭，现用一台四通球阀替代，操作方便。
- 3、本系列阀门的特点：
 - 流体阻力小：球体、阀体和连接管道的截面都是相等的，且球体通道采用圆弧设计，介质通过球体时，流体阻力小。
 - 密封性能好：阀座采用具有一定弹性变形和高强度的PTFE材料，达到良好密封性能保证了阀门的稳定性。
 - 使用寿命长：阀门的整体材质全部选用卫生级奥氏体不锈钢，阀座材料选用PTFE，能达到良好的抗腐蚀性作用，延长了阀门的使用寿命。
 - 无滞留设计：密封选用优质PTFE全包结构，使PTFE阀座与球体、阀体紧密接触，从而达到无滞留介质的功能。

PRODUCT FEATURES

1. This series of valves can be equipped with a variety of drive devices.
2. The working principle of this series of valve's medium flow direction:
 - As shown in the picture, LL type four-way ball valve only needs to rotate the ball 90° with the handle or actuator, then the flow direction of the two media will switch at the same time to achieve the multi-purpose effect. It is convenient and rapid.
 - In the old time, supply water needs four valves, when supply water, valve A, D opened, valve B, C closed; in opposite direction, valve B, C opened, valve A, D closed; but now only one valve can take place the four, easy to operate.
3. Features of this series of the valve:
 - Small fluid resistance: The cross section of the ball, valve body and connecting pipe are all equal, and the ball channel is arc design, when the medium passes through the valve, the fluid resistance is small.
 - Well sealing performance: valve seat use the PTFE material with a certain elastic deformation and high strength, reach the well sealing performance to make sure the stability of the valve.
 - Long-lasting usage: overall material of the valve choose sanitary authentic stainless steel, valve seat select PTFE material can reach the good effect of corrosion resistance, to extend the useful life of the valve.
 - Non-retention design: sealing choose quality PTFE encapsulated structure, so that the PTFE seat, sphere and valve body contact closely, to reach the purpose of non-retention.

"LL " 4 WAY FULL BORE ENCAPSULATED BALL VALVE

"LL " 全通径四通全包球阀



LL 全通径四通全包球阀 (焊接/快装)

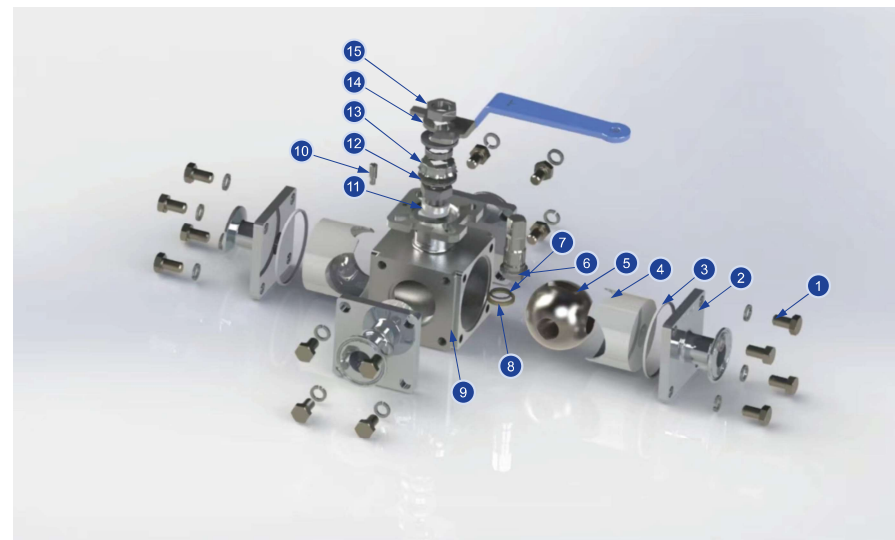
"LL" 4 WAY FULL BORE ENCAPSULATED BALL VALVE (WELD/CLAMP)

SIZE	ΦDn	ΦD	ΦD1	L	L1	H
1"	22.1	25.4	50.5	175	181	113
1.25"	28.5	31.8	50.5			
1.5"	34.8	38.1	50.5			
2"	47.5	50.8	64			
2.5"	60.2	63.5	77.5			
3"	72.9	76.2	91			
4"	97.4	101.6	119			

• 具体规格参数可详询我司。

"LL " 4 WAY FULL BORE ENCAPSULATED BALL VALVE

"LL " 全通径四通全包球阀



NO.	DESCRIPTION	NO.	DESCRIPTION
01	螺栓 / Bolt	09	阀体 / Valve Body
02	阀盖 / Valve End	10	限位销 / Spacer Pin
03	密封线条 / Seal Ring	11	组合填料 / Stem Packing
04	阀座 / Valve Seat	12	蝶簧 / Gland Ring
05	球芯 / Valve Ball	13	止退垫 / Back Stop Pad
06	阀杆 / Valve Stem	14	手柄 / Valve Handle
07	O 型圈 / O Ring	15	螺母 / Nut
08	阀杆垫圈 / Seal Ring		

SANITARY PI生级蝶阀系列 BUTTERFLY VALVE SERIES



11 TECHNOLOGICAL PROCESS

十一道工艺流程



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！

Each product has gone through 11 production processes with process card, we can clearly know the person in charge of each process, to ensure product quality!

SANITARY BUTTERFLY VALVE

卫生级蝶阀



应用

该类型阀门是一款卫生型自动或手动操作的蝶阀系列，广泛用于不锈钢管道系统内需调节介质流量的部分。

APPLICATIONS

The series of this valve is a kind of sanitary pneumatic or manual handle butterfly valve, which are widely used in the stainless steel pipeline system to control and regulate medium flow.

工作原理

- 蝶阀既可以通过执行器进行远程遥控操作，也可以通过手柄人工操控。
- 执行器是将一个活塞的轴向运动转换为阀门轴的90°旋转，实现对管道流体的控制和开/关任务。气动执行器装置有三种。
- 标准：常开（NO）型，常闭（NC）型，气/气（A/A）型。
- 鸭嘴式手动操作的多位手柄可通过15°位置的调节将阀门机械式锁定在其开启或关闭的12个位置，达到控制介质流量的目的。拉杆式手柄通过3个多功能定位，将阀门机械式锁定在其开启或关闭的3个位置上，也达到控制介质流量的目的。

WORK PRINCIPLE

- This kind of valve can be handled both by manual or an electric actuator, and also can be handled by a pneumatic actuator.
- The actuator cover the steering motion of a piston into a 90° degree rotation of the valve shaft. So the valve can be open or close to achieve the requirement of control and open/close for the pipeline system.
- They have three type of actuator: Normal open(NO), Normal closed(NC), air/air(A/A).
- Multi position handle regulates the valve by 15° in its open or close 12 seat, and achieve control or medium flow purpose.
- The Pull handle regulates the valve through three multi-function positioning, in its open or close three positions, and also achieves control of medium flow purpose.

设计特点

- 无论何种连接方式，阀体都可更换，且不会改变阀门的总长度
- 连接方式：快装、焊接、螺纹、法兰
- 物料接触部位材质为304/316L，其它部位304；密封材质EPDM、VMQ、FPM
- 工作压力：0~10bar 控制气源压力：5~8bar
- 工作温度：EPDM(-40~+120°C)、VMQ(-40~+130°C)、FPM(-40~+180°C)
- Size: 1" -6" /DN25-150
- 标准：3A、DIN、SMS、IDF、ISO

DESIGN FEATURES

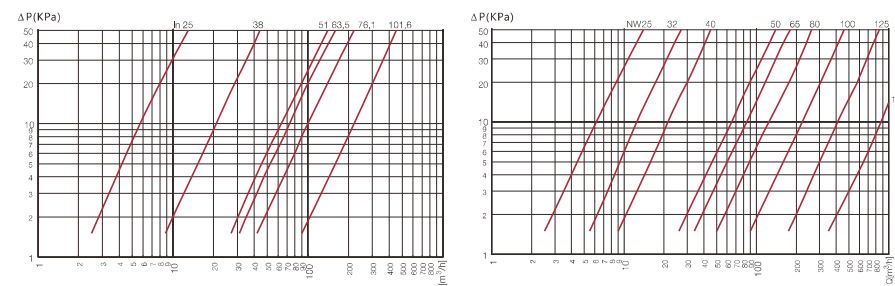
- Valve body can be replaced in any connections, and the length will not change.
- Connection: clamp, weld, thread, flange
- Material for the part contacted with media is 304/316L, other part is 304. Sealing material: EPDM, VMQ, FPM
- Pressure of work: 0~10bar Control air pressure: 5~8bar
- Working temperature: EPDM(-40~+120°C), VMQ(-40~+130°C), FPM(-40~+180°C)
- Size: 1" -6" /DN25-150
- Standard: 3A, DIN, SMS, IDF, ISO

SANITARY BUTTERFLY VALVE

卫生级蝶阀

处理能力/压力降对比图

CAPACITY/PRESSURE DROP DIAGRAMS



蝶阀KV值（阀全开）参考值（0.1MPa）

BUTTERFLY VALVE KV VALUE (VALVE FULLY OPEN) REFERENCE VALUE (0.1MPa)

SIZE	1/2"-3/4"	1"/DN25	1.25"/DN32	1.5"/DN40	2"/DN65	2.5"/DN65	3"/DN80	4"/DN100	5"/DN125
KV	18	18	23	23	25	45	70	110	180

无销软密封中线蝶阀扭矩表

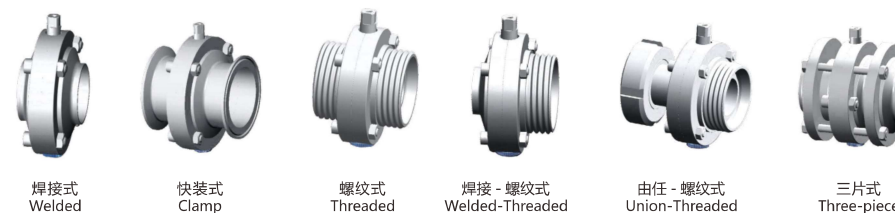
TORQUE TABLE OF NON-PIN SOFT SEAL CENTERLINE BUTTERFLY VALVE

SIZE	1/2"-3/4"	1"/DN25	1.25"/DN32	1.5"/DN40	2"/DN65	2.5"/DN65	3"/DN80	4"/DN100	5"/DN125
扭矩N.M	6.5	8	10	12	20	30	35	40	60

注意 这些曲线图数据的测定系基于：介质：水（水温20°C） 测量：符合VDI 2173.

NOTE: The profile data base on: Medium: Water (20°C). Measurement: In accordance with VDI 2173.

CONNECTION TYPE

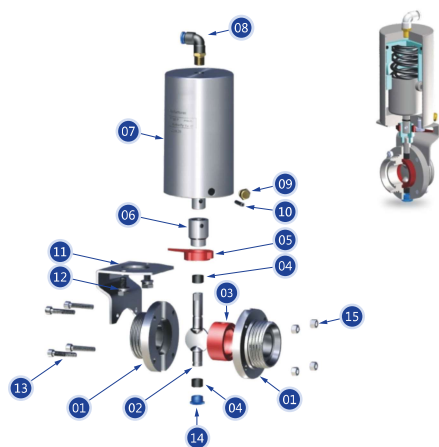


SANITARY BUTTERFLY VALVE

卫生级蝶阀

卫生级气动蝶阀

SANITARY PNEUMATIC BUTTERFLY VALVE

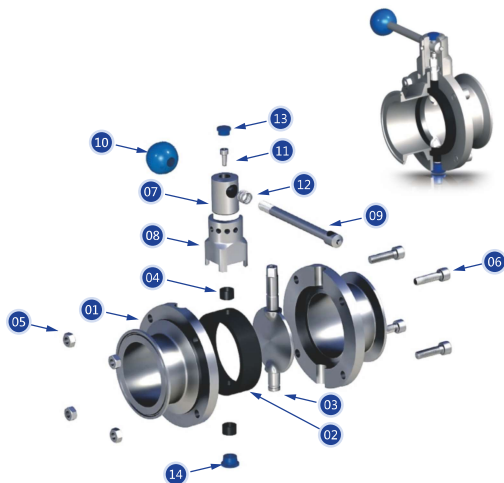


Parts List

NO.	DESCRIPTION
01	阀体 Valve Body
02	蝶板 Dish Plate
03	密封圈 Seal Ring
04	衬套 Bush
05	指示针 Direction Pin
06	连接套 Connection Sleeve
07	气动头 Pneumatic Head
08	气管接头 Gas-type Fitting
09	消声器 Silencer
10	销钉 Dowel
11	支架 Hanger
12	螺钉 Bolt
13	螺钉 Bolt
14	塑料塞 Plastic Plug
15	螺母 Nut

卫生级手动蝶阀

SANITARY MANUAL BUTTERFLY VALVE

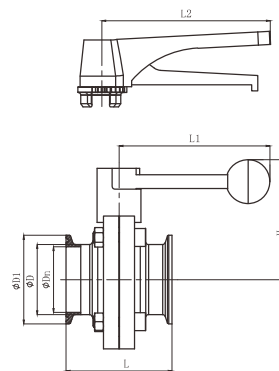


Parts List

NO.	DESCRIPTION
01	阀体 Valve Body
02	密封圈 Seal Ring
03	蝶板 Dish Plate
04	衬套 Bush
05	六角螺母 Hex Nut
06	内六角螺钉 Bolt
07	旋转头 Rotary Head
08	外套 Coat
09	拉杆 Draw Bar
10	手柄球 Handle Ball
11	内六角螺钉 Bolt
12	弹簧 Spring
13	塑料塞 Plastic Plug
14	塑料塞 Plastic Plug

SANITARY BUTTERFLY VALVE

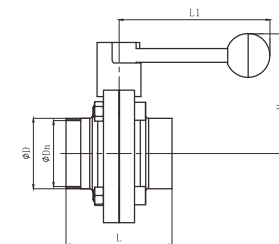
卫生级蝶阀



3A手动蝶阀 (快装/焊接)

3A MANUAL BUTTERFLY VALVE (CLAMP/WELD)

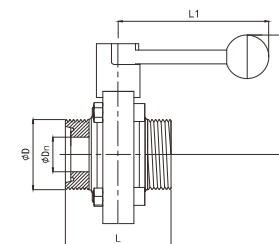
SIZE	ΦDn	ΦD	ΦD1	L	L1	L2	H
1/2"	9.4	12.7	25.2/50.5	66	140	147	60
3/4"	15.8	19.1	25.2/50.5	66	140	147	68
1"	22.1	25.4	50.5	66	140	147	77
1.5"	34.8	38.1	50.5	66	140	147	80
2"	47.5	50.8	64	72	140	147	88
2.5"	60.2	63.5	77.5	76	150	147	95
3"	72.9	76.2	91	76	150	169	102
4"	97.4	101.6	119	86	160	169	119
6"	146.8	152.4	166.87	110	215	210	160



DIN手动蝶阀 (快装/焊接)

DIN MANUAL BUTTERFLY VALVE (CLAMP/WELD)

SIZE	ΦDn	ΦD	ΦD1	L	L1	L2	H
DN15	15	18	34	66	140	147	60
DN20	19	22	34	66	140	147	68
DN25	25	28	50.5	66	140	147	77
DN32	31	34	50.5	66	140	147	82
DN40	37	40	50.5	66	140	147	88
DN50	49	52	64	72	150	147	95
DN65	66	70	91	76	150	169	102
DN80	81	85	106	76	160	169	107
DN100	100	104	119	86	215	210	119



DIN手动蝶阀 (螺纹)

DIN MANUAL BUTTERFLY VALVE (THREAD)

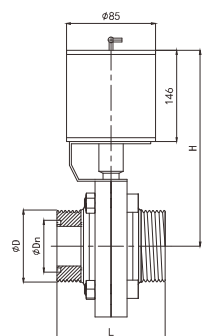
SIZE	ΦDn	ΦD	L	L1	L2	H
DN15	15	Φ33.5 RD34×1/8	66	140	147	60
DN20	19	Φ43.5 RD44×1/6	66	140	147	68
DN25	25	Φ51.5 RD52×1/6	66	140	147	77
DN32	31	Φ57.5 RD58×1/6	66	140	147	82
DN40	37	Φ64.5 RD65×1/6	66	140	147	88
DN50	49	Φ77.5 RD78×1/6	72	150	147	95
DN65	66	Φ94.5 RD95×1/6	76	150	169	102
DN80	81	Φ109.5 RD110×1/4	76	160	169	107
DN100	100	Φ129.5 RD130×1/4	86	215	210	119

SANITARY BUTTERFLY VALVE

卫生级蝶阀

SANITARY REBRETHES

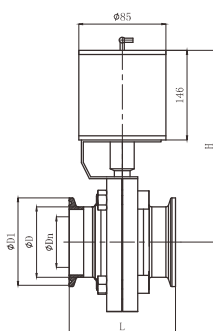
卫生级呼吸阀



SMS 气动蝶阀 (螺纹)

SMS PNEUMATIC BUTTERFLY VALVE (THREAD)

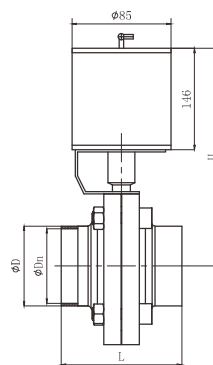
SIZE	ΦDN	ΦD	L	H
12.7	9.4	Rd34×1/8	66	215
19	15.8	Rd34×1/8	66	218
25	22.4	Rd40×1/6	66	223
32	28.8	Rd48×1/6	66	227
38	35.1	Rd60×1/6	66	231
51	47.8	Rd70×1/6	72	237
63	60.5	Rd85×1/6	76	242
76	73.2	Rd98×1/6	76	283
102	97.6	Rd125×1/4	86	295
102	97.6	Rd132×1/6	86	295



DIN 气动蝶阀 (快装/焊接)

DIN PNEUMATIC BUTTERFLY VALVE (CLAMP/WELD)

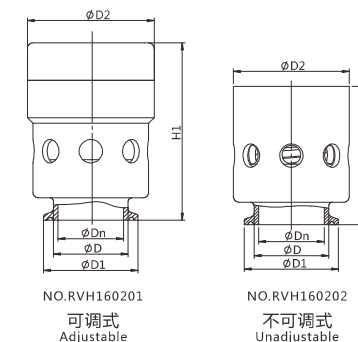
SIZE	ΦDN	ΦD	ΦD1	L	H
DN15	15	18	34	66	215
DN20	19	22	34	66	218
DN25	25	28	50.5	66	223
DN32	31	34	50.5	66	227
DN40	37	40	50.5	66	231
DN50	49	52	64	72	237
DN65	66	70	91	76	242
DN80	81	85	106	76	283
DN100	100	104	119	86	295



3A 气动蝶阀 (快装/焊接)

3A PNEUMATIC BUTTERFLY VALVE (CLAMP/WELD)

SIZE	ΦDN	ΦD	ΦD1	L	H
1/2"	9.4	12.7	25.2/50.5	66	215
3/4"	15.8	19.1	25.2/50.5	66	218
1"	22.1	25.4	50.5	66	223
1.5"	34.8	38.1	50.5	66	231
2"	47.5	50.8	64	72	237
2.5"	60.2	63.5	77.5	76	242
3"	72.9	76.2	91	76	283
4"	97.4	101.6	119	86	295



应用

呼吸阀应用于压力容器或管道系统上,呼吸阀具备两种功能:

当压力高于设定压力时,可以排气,反之关闭

当管路系统中产生真空时,阀门自动打开,保证设备及相关仪表安全。

设计特点

材质为304/316L

垫圈材质: EPDM、FPM, 均符合FDA117.2600

压力: 0.5~2bar 真空: 0.3~0.9bar

工作温度: -10~120℃

连接方式: 快装、焊接、螺纹

Size: 1" -2" /DN25-DN50

标准: 3A、DIN、SMS、IDF、ISO

APPLICATIONS

This valve used in pressure vessel or pipe system, the air release valve has two functions:

When pressure is higher than the set pressure release air, Otherwise is closed;

When the pipe system in vacuum valve will automatically open, which is to ensure the equipment and related instrument security.

DESIGN FEATURES

Material: 304/316L

Gasket material: EPDM, FPM

Pressure: 0.5~2bar Vacuum: 0.3~0.9bar

Pressure of work: 0~10bar

Connection: clamp, weld, thread, flange

Size: 1" -2" /DN25-DN50

Standard: 3A, DIN, SMS, IDF, ISO

真空呼吸阀 (快装)

VACUUM BREATHING VALVE (CLAMP)

SIZE	ΦDn	ΦD	ΦD1	ΦD2	H1	H2
1"	22.1	25.4	50.5	68	95	74
1.5"	34.8	38.1	50.5	68	95	74
2"	47.5	50.8	64	68	95	74

SANITARY P1生级换向阀系列 DIRECTIONAL VALVE SERIES



9 TECHNOLOGICAL PROCESS 九道工艺流程

1. 毛坯 Round Steel



2. 锻造 Forging



9. 包装 Packing

3. 机床粗加工
NC Rough Machining8. 气压测试
QC Barometric Test4. 数控精加工
NC Finishing7. 无尘车间组件
Dust-free Workshop
Assembly5. 抛光 0.4μm
Polishing 0.4 μm6. 超声波清洗
Ultrasonic Cleaning

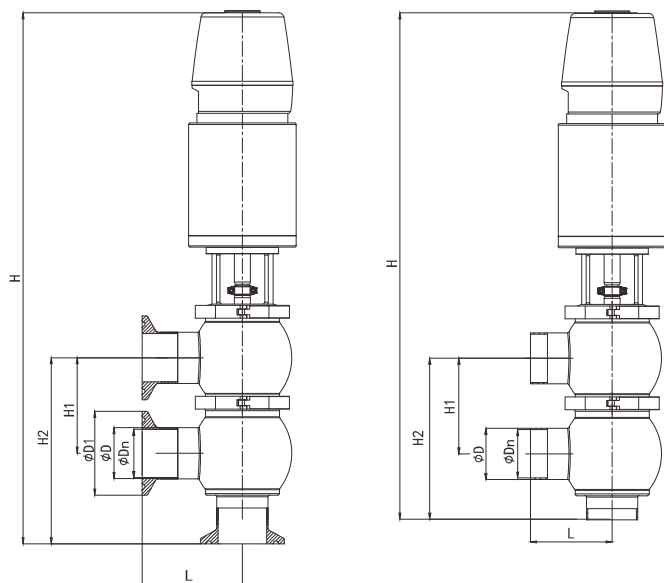
每个产品都经过9道加工工序，并配有流程卡；

我们可以清楚的知道每个流程的负责人，以确保产品质量！

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!

SANITARY DIRECTIONAL VALVE

卫生级换向阀



换向阀（焊接）

DIRECTIONAL VALVE (WELD)

SIZE	ΦDn	ΦD	L	H	H1	H2
1.0"	22.1	25.4	55	480.5	67.5	117.5
1.25"	28.5	31.8	76.2	480.5	67.5	117.5
1.5"	34.8	38.1	60	488.5	68.5	133.5
2.0"	47.5	50.8	80	566.5	76.5	154.5
2.5"	60.2	63.5	101.6	630	119	201
3.0"	72.9	76.2	90	619.5	115	200
4.0"	97.4	101.6	120	779	149	264

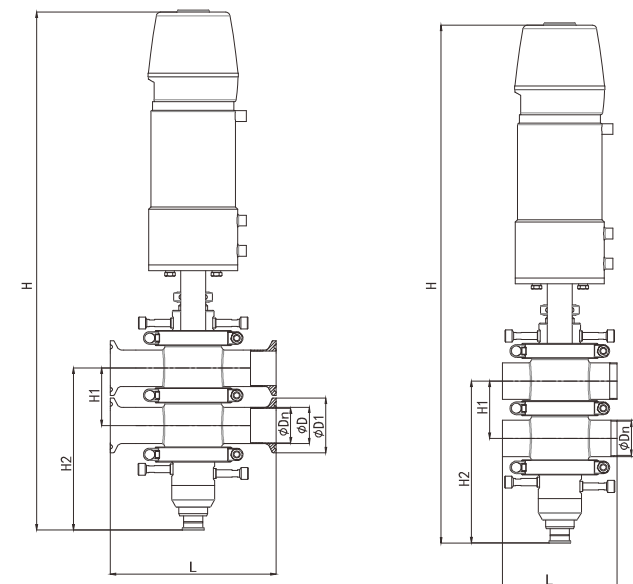
换向阀（快装）

DIRECTIONAL VALVE (CLAMP)

SIZE	ΦDn	ΦD	ΦD1	L	H	H1	H2
1.0"	22.1	25.4	50.5	67.7	493.2	67.5	130.2
1.25"	28.5	31.8	50.5	88.9	493.2	67.5	130.2
1.5"	34.8	38.1	50.5	72.7	501.2	68.5	146.2
2.0"	47.5	50.8	64	92.7	579.2	76.5	167.2
2.5"	60.2	63.5	77.5	114.3	642.7	119	213.7
3.0"	72.9	76.2	91	102.7	632.2	115	212.7
4.0"	97.4	101.6	119	135.8	794.8	149	279.8

SANITARY ANTI MIXING VALVE

卫生级防混阀



防混阀（快装）

ANTI MIXING VALVE (CLAMP)

SIZE	ΦD	ΦDn	ΦD1	L	H	H1	H2
1.5"	34.8	38.1	50.5	185.4	688.5	70	204
2.0"	47.5	50.8	64	185.4	708.5	80	224
2.5"	60.2	63.5	77.5	245.4	748	96	263.5
3.0"	72.9	76.2	91	245.4	766	110	281.5
4.0"	97.4	101.6	119	285.6	823	130	338.5

防混阀（焊接）

ANTI MIXING VALVE (WELD)

SIZE	ΦD	ΦDn	L	H	H1	H2
1.5"	38.1	34.8	160	688.5	70	204
2.0"	50.8	47.5	160	708.5	80	224
2.5"	63.5	60.2	220	748	96	263.5
3.0"	76.2	72.9	220	766	110	281.5
4.0"	101.6	97.4	254	823	130	338.5

SANITARY 卫生级隔膜阀系列 DIAPHRAGM VALVE SERIES



9 TECHNOLOGICAL PROCESS 九道工艺流程

1. 蜡模 Wax Mold



9. 包装 Packing

2. 浇铸成型
Casting Molding8. 气压测试
QC Barometric Test3. 机床粗加工
NC Rough Machining7. 无尘车间组件
Dust-free Workshop
Assembly4. 数控精加工
NC Finishing6. 超声波清洗
Ultrasonic Cleaning5. 抛光 0.4μm
Polishing 0.4 μm

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！

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!

SANITARY DIAPHRAGM VALVE 卫生级隔膜阀



高洁净手动快装隔膜阀
Sanitary Manual
Clamped Diaphragm Valve



高洁净手动快装三通隔膜阀
Sanitary Manual Clamped
3 Way Diaphragm Valve



手动焊接三通隔膜阀
Manual Welded
3 Way Diaphragm Valve



高洁净手动快装U型三通隔膜阀
Sanitary Manual Clamped
U-Type 3 Way Diaphragm Valve



高洁净气动快装隔膜阀 (蘑菇型)
Sanitary Pneumatic
Clamped Diaphragm Valve



高洁净气动焊接隔膜阀
Sanitary Pneumatic
Welded Diaphragm Valve

应用范围

广泛适用于卫生级的酿酒、乳制品以及饮料等食品工业，以及无菌工况的制药领域，实现对管道液体的控制和开/关任务。

工作原理

- 常规状态下为封闭状态，此时膜片紧贴阀体内腔，关闭着管道的路径。
- 通过手轮或驱动执行装置来带动阀杆向上运动，球形膜片向上弯曲，从而使阀门形成导通状态，则可实现清洗和开启的目的。膜片把下部阀体内腔和上部阀盖内腔隔开，使位于膜片上部的阀杆、阀芯等零件不受介质的腐蚀，省去了填料密封结构，而且不会产生介质泄漏。优化的阀体设计，使清洗液完全排泄，不会形成滞留现象。

APPLICATIONS

Diaphragm Valve is widely used on wine,dairy products, beverage, foodstuff industry, pharmacy etc, achieving the requirement of control and open/close for the pipeline system.

WORK PRINCIPLE

- The general state is closed, the elbow diaphragm is close to the inner cavity of the valve, closing the path of the pipeline.
- Toggle the handwheel or drive the actuator to drive the valve stem upward, and the spherical diaphragm bends upward, so that the valve is in a conductive state, and the purpose of cleaning and opening can be achieved. The diaphragm separates the inner cavity of the lower valve body from the inner cavity of the upper valve cover, so that the valve stem, valve core and other parts located at the upper part of the diaphragm are not corroded by the medium, the packing sealing structure is omitted, and no medium leakage occurs. The optimized valve body design allows the cleaning fluid to be drained completely without stagnation.

SANITARY DIAPHRAGM VALVE 卫生级隔膜阀

设计特点

- 物料接触部位材质为304/316L，其它部位304，密封材质 EPDM+PTFE
- 工作压力：0~10bar 控制气源压力：5~8bar
- 工作温度：EPDM(-40~+120°C)、PTFE(-40~+130°C)、FPM (-40~+180°C)
- 连接方式：快装、焊接、螺纹、法兰
- 控制方式：手动、气动、电动
- Size:1" -4" /DN25-100
- 标准：3A, DIN, SMS, IDF, RJT, BPE, ISO

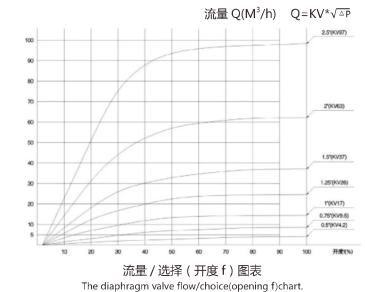
流量和隔膜阀通径的关系

Relations Between Flow Rate And O.d

- Kv值是用来定义阀门流量的一个技术参数。该数据描述了5°C到30°C的水在压差为1Bar情况下阀门的通量。
- Kv值是表示阀门100%开启状态下的Kv值。
- Kv is a data of the flow rate. The data describes valve flux when the water of 5°C to 30°C in the pressure difference for 1bar.
- kv is the data when the valve shows the stature of 100% open.

DESIGN FEATURES

- Material for the part contacted with media is 304/316L, the other part is 304, Sealing material EPDM+PTFE.
- Working pressure: 0~10bar Control air pressure: 5~8bar
- Working temperature: EPDM(-40~+120°C), PTFE(-40~+130°C), FPM (-40~+180°C)
- Connection: clamp,weld,thread,flange
- Control mode: manual operation, pneumatic, electric
- Size: 1" -4" /DN25-100
- Standards: 3A,DIN,SMS,IDF,RJT,BPE,ISO



注意：上面图表适用于，介质：水（20°C）
Note: the above chart suitable for, medium: water (20°C)

- 表面抛光
- Ra= 粗糙度
- 平均粗糙度 Ra 值被作为衡量一个阀体内表面光洁度的一个参数。
- LT5.6mm 长度/测量Lc0.8mm进行5次测量粗糙度得出的平均值粗糙度Ra值
- 按照 ASME BPE 表 SF-3 标准进行分类

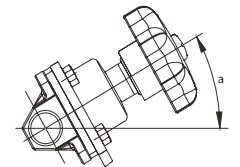
- Surface polishing
- Ra=roughness
- Average roughness Ra data is used as a measure of valve body surface finish of a parameter.
- LT5.6mm length/measurement Lc0.8mm for five measuring
- Roughness obtained average roughness Ra data
- According ASME BPE table SF-3 to classify

隔膜阀排空安装角度示意图

Schematic Diaphragm Of Installation Angle Of Diaphragm Valve Drain

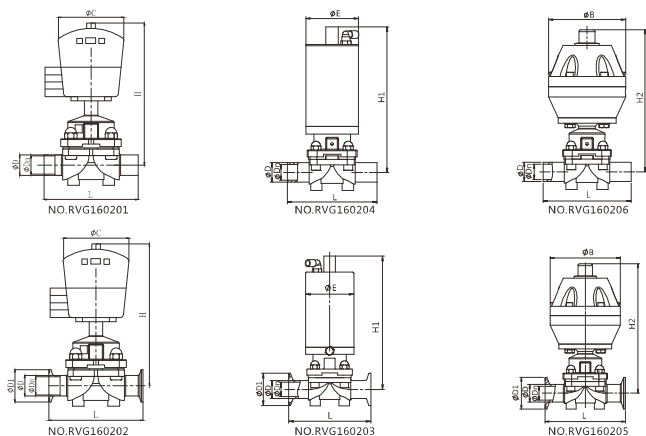
无菌隔膜阀根据其结构特点：推荐按下图安装，有利于阀门清洗后完全排泄，不易造成液体滞留阀门内部。

According to the structure feature, which makes for complete drain after cleaning and keep no residue.



SIZE	1/2"DN15	3/4"DN20	1"DN25	1.25"DN32	1.5"DN40	2"DN50	2.5"DN65	3"DN80	4"DN100
安装角度 α	23°	32°	37°	33°	31°	27°			

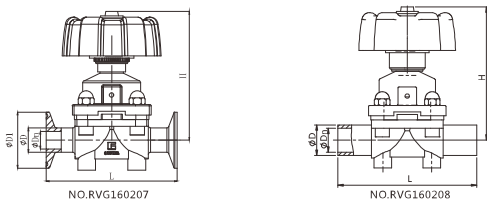
SANITARY DIAPHRAGM VALVE 卫生级隔膜阀



气动隔膜阀 (焊接/快装)

PNEUMATIC DIAPHRAGM VALVE (WELD/CLAMP)

SIZE	3A			DIN			ΦB	ΦC	ΦE	L	H	H1	H2
	ΦDn	ΦD	ΦD1	ΦDn	ΦD	ΦD1							
1/2"/DN15	9.4	12.7	25.2	15	18	34	105	84	51	108	207	135	199
3/4"/DN20	15.8	19.1	25.2	19	22	34	105	84	75	117	210	203	202
1"/DN25	22.1	25.4	50.5	25	28	50.5	105	84	75	127	215	207.5	207
1.25"/DN32	28.5	31.8	50.5	31	34	50.5	130	102	85	146	240	218	217
1.5"/DN40	34.8	38.1	50.5	37	40	50.5	130	102	85	160	247	225	224
2"/DN50	47.5	50.8	64	49	52	64	155	130	108	190	300	240	239



手动隔膜阀 (焊接/快装)

MANUAL DIAPHRAGM VALVE (WELD/CLAMP)

SIZE	3A			DIN			L	H
	ΦDn	ΦD	ΦD1	ΦDn	ΦD	ΦD1		
1/2"/DN15	9.4	12.7	25.2	15	18	34	108	103
3/4"/DN20	15.8	19.1	25.2	19	22	34	117	103
1"/DN25	22.1	25.4	50.5	25	28	50.5	127	122
1.25"/DN32	28.5	31.8	50.5	31	34	50.5	146	160
1.5"/DN40	34.8	38.1	50.5	37	40	50.5	160	160
2"/DN50	47.5	50.8	64	49	52	64	190	190
2.5"/DN65	60.2	63.5	77.5	66	70	91	216	228

TANK BOTTOM DIAPHRAGM VALVE 罐底隔膜阀



手动快装罐底隔膜阀
Manual Clamped Tank
Bottom Diaphragm Valve



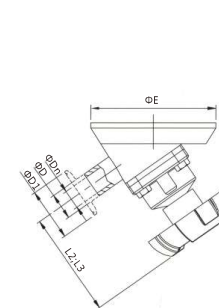
气动罐底隔膜阀
Pneumatic Clamped Tank
Bottom Diaphragm Valve

应用

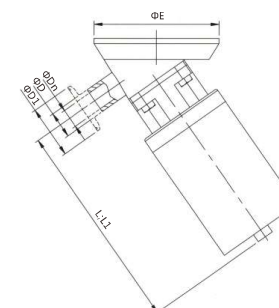
应用于生技制药、注射液用水、接种疫苗等行业。

APPLICATIONS

It is widely used in pharmaceutical, Water for injection (WFI) and Bacterin etc.



NO.RVG160209



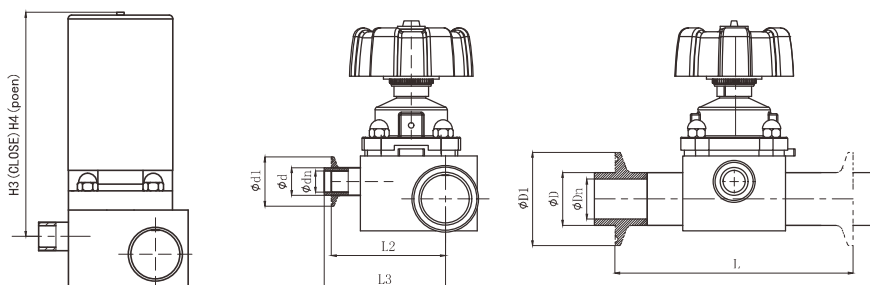
NO.RVG160210

罐底隔膜阀 (气动/手动)

TANK BOTTOM DIAPHRAGM VALVE (PNEUMATIC/ MANUAL)

SIZE	ΦDn	ΦD	ΦD1	ΦE	L	L1	L2	L3
1"	22.1	25.4	50.5	120	212	225	100	113
1.5"	34.8	38.1	50.5	160	217	232	119	134
2"	47.5	50.8	64	160	315	333	135	153

3 WAY DIAPHRAGM VALVE 三通隔膜阀



NO.RVG160211

NO.RVG160212

气动/手动三通隔膜阀（快装/焊接）

PNEUMATIC/ MANUAL 3 WAY DIAPHRAGM VALVE (CLAMP/WELD)

SIZE	ΦDn	ΦD1	ΦD	Φdn	Φd	Φd1	L	L2	L3	H3	H4
1/2"X1/2"	9.4	12.7	25.2	9.4	12.7	25.2	117.4	58	72	122	131
3/4"X3/4"	15.8	19.1	25.2	15.8	19.1	25.2	117.4	61.2	75	122	131
1"X1/2"	22.1	25.4	50.5	9.4	12.7	25.2	117.4	64.4	78	122	131
1"X3/4"	22.1	25.4	50.5	15.8	19.1	25.2	117.4	64.4	78	122	131
1"X1"	22.1	25.4	50.5	22.1	25.4	50.5	136.4	81.3	89	212	225
1.5"X1/2"	34.8	38.1	50.5	9.4	12.7	25.2	117.4	70.7	84.7	122	131
1.5"X3/4"	34.8	38.1	50.5	15.8	19.1	25.2	117.4	70.7	84.7	122	131
1.5"X1"	34.8	38.1	50.5	22.1	25.4	50.5	151	94.9	94.9	212	225
1.5"X1.5"	34.8	38.1	50.5	15.8	19.1	50.5	161.4	101.9	108	217	232
2"X1/2"	47.5	50.8	64	9.4	12.7	25.2	117.4	77.1	91	122	131
2"X3/4"	47.5	50.8	64	15.8	19.1	25.2	117.4	77.1	91	122	131
2"X1"	47.5	50.8	64	22.1	25.4	50.5	151	101.5	101.5	212	225
2"X1.5"	47.5	50.8	64	34.8	38.1	50.5	176	115	115	217	232
2"X2"	47.5	50.8	64	47.5	50.8	64	195.4	121.7	129	315	333

SANITARY CHECK VALVE 卫生级止回阀



焊接止回阀
Welding Check Valve



快装止回阀
Clamp Check Valve



螺纹止回阀
Threaded Check Valve

应用

可应用于食品、饮料、酿酒、炼油、化妆品、制药和化学制品行业中。

工作原理

止回阀是指依靠介质本身流动而自动开、闭阀瓣的一类阀门，当阀杆下部的压力超过上部的压力以及弹簧力时，止回阀阀瓣就会开启；当阀杆上下压力平衡时，止回阀就会关闭，从而达到介质在管道的单向流动，阻止液体的倒流，防止事故发生。

设计特点

- 物料接触部位材质为304/316L，其它部位304
- 密封材质：VMQ、EPDM、FPM，材质均符合FDA117.2600
- 工作压力：0~10bar
- 工作温度：-10~120°C
- 表面处理：Ra≤0.8μm
- 连接方式：快装、焊接、螺纹
- Size: 1" -4" /DN25-DN100
- 标准：3A、DIN、SMS、IDF、RJT、ISO

APPLICATIONS

It is used in food , beverage, wine, oil, cosmetics, pharmaceutical and chemical industries.

WORK PRINCIPLE

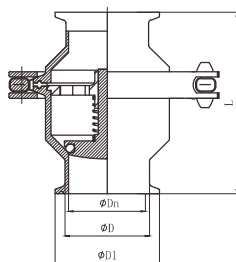
The Check valve is a type of valve which open or close the valve disc rely on the medium flow itself. The check valve disc will open when the pressure of stem bottom exceed the stem above and the spring. The check valve disc will close when the two pressure are equalled. So that the flow goes one way in the pipeline, and prevent the fluid flowing back, avoid the accidents.

DESIGN FEATURES

- Material for the part contacted with media is 304/316L, other part is 304.
- Sealing material: VMQ, EPDM, FPM , complies with FDA 177.2600
- working pressure: 0~10bar
- working temperature: -10~120°C
- Surface finishing: Ra≤0.8μm
- Connection: clamp, weld, thread
- Size: 1" -4" /DN25-DN100
- Standard: 3A, DIN, SMS, IDF, RJT, ISO

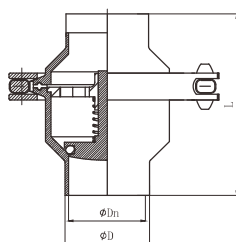
SANITARY CHECK VALVE

卫生级止回阀



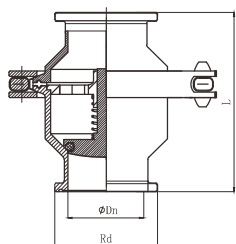
止回阀（快装）
CHECK VALVE (CLAMP)

SIZE	DIN			3A			L
	ΦDn	ΦD1	ΦD	ΦDn	ΦD1	ΦD	
1/2"/DN15	15	18	34	9.4	12.7	25.2	76
3/4"/DN20	19	22	34	15.8	19.1	25.2	76
1"/DN25	25	28	50.5	22.1	25.4	50.5	102.9
1.5"/DN40	37	40	50.5	34.8	38.1	50.5	101
2"/DN50	49	52	64	47.5	50.8	64	112.4
2.5"/DN65	66	70	91	60.2	63.5	77.5	125
3"/DN80	81	85	106	72.9	76.2	91	125
4"/DN100	100	104	119	97.4	101.6	119	132



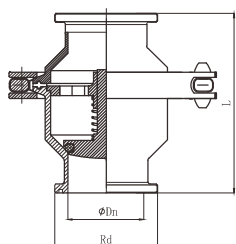
止回阀（焊接）
CHECK VALVE (WELD)

SIZE	DIN		3A		L
	ΦDn	ΦD	ΦDn	ΦD	
1/2"/DN15	15	18	9.4	12.7	77.5
3/4"/DN20	19	22	15.8	19.1	77.5
1"/DN25	25	28	22.1	25.4	77.5
1.5"/DN40	37	40	34.8	38.1	77.5
2"/DN50	49	52	47.5	50.8	87
2.5"/DN65	66	70	60.2	63.5	99.6
3"/DN80	81	85	72.9	76.2	99.6
4"/DN100	100	104	97.4	101.6	100.4



DIN止回阀（螺纹）
DIN CHECK VALVE (THREAD)

SIZE	ΦDn	Rd	L
DN15	15	Rd34×1/8	120.5
DN20	19	Rd44×1/6	120.5
DN25	25	Rd52×1/6	120.5
DN40	37	Rd65×1/6	120.5
DN50	49	Rd78×1/6	130
DN65	66	Rd95×1/6	155.6
DN80	81	Rd110×1/4	155.6
DN100	100	Rd130×1/4	156.4



SMS止回阀（螺纹）
SMS CHECK VALVE (THREAD)

SIZE	ΦDn	Rd	L
12.7	9.4	Rd34×1/8	109.5
19	15.8	Rd34×1/8	109.5
25	22.4	Rd40×1/6	113.5
38	35.1	Rd60×1/6	117.5
51	47.8	Rd70×1/6	127
63	60.5	Rd85×1/6	147.6
76	73.2	Rd98×1/6	147.6
101.6	97.6	Rd125×1/4	154.4
101.6	97.6	Rd132×1/6	154.4

SANITARY SAMPLE VALVE

卫生级取样阀



应用

主要用于罐设备或管道里面的物料样品采集，也可安装在罐设备或管道的最低点用来排泄残留液。
无菌取样阀用来作取样并且取样后进行消毒灭菌处理，广泛应用于啤酒、牛奶、饮料、果汁、制药等行业。

操作原理

阀门开启，取样：通过旋转手柄或通过拉动操纵杆来带动轴芯及膜片缩回，允许液体通过进行取样。
阀门关闭，灭菌取样：反向操作手柄，内置的弹簧将阀门闭合，同时保持两段软管之间的通道相通，以便进行灭菌消毒处理。
如果需要使用蒸汽，建议用户在出口端安装一个小型压力调节阀。

APPLICATIONS

Its mainly applied to extract sample from tank or pipeline. It also can be assembled at the bottom of the tank or pipeline to drain away the remains.
The aseptic sampling valve is designed for sterilization before and after each sampling. It is applied to beer, milk, beverage, fruit juice, pharmacy industries etc.

OPERATING PRINCIPLES

Valve Open to Sampling: The manual valve is opened by rotating the handle or by activating the lever. The stem and the membrane are then retracted, allowing liquid to pass.
Valve Close to sterilizing The built in spring closes the valve and keeps the channel open between the hoses through reverse process inclosed: Sterilizing-The built-in spring closes the valve and keeps the channel open between the hoses though reverse process in order to sterilize. If using by steam ,a small pressure relief valve on the outlet is recommended.

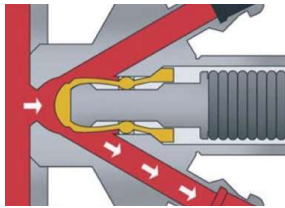
**SANITARY
SAMPLE VALVE**
卫生级取样阀

设计特点

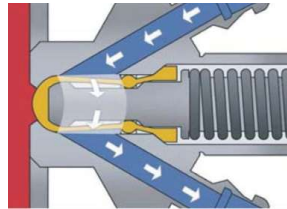
- 标准设计：无菌取样阀由三个部分组成：阀体，手柄和膜片。橡胶膜置于阀杆上，作为拉伸塞子使用。
- 材质：阀体316L，手柄304，膜片EPDM, PTFE, VMQ
- 最大压力：6bar 最高温度：120℃（EPDM）130℃(PTFE)
- 最大的灭菌消毒温度，干蒸汽：121-134℃。蒸汽务必是干的，因为冷凝水会损坏膜片。建议每100次取样操作或灭菌操作处理后更换膜片。
- 接口形式：快装、焊接、螺纹、软管、凸台口

DESIGN FEATURES

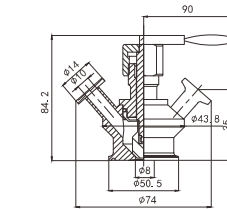
- **Standard design:** The aseptic sampling valve consists of three parts: the valve body, the handle and the diaphragm. The rubber membrane is placed on the stem and used as a stretch plug.
- **Material:** Valve body 316L, Handle 304, Diaphragm EPDM, PTFE, VMQ
- **Maximum pressure:** 6bar **Maximum Temperature:** 120°C (EPDM) 130°C (PTFE)
- **Maximum sterilization temperature, dry steam:** 121-134°C.
Steam must be dry, because condensate water will damage the diaphragm. It is recommended to replace the diaphragm after every 100 sampling operations or sterilization operations.
- **Interface form:** quick assembly, welding, thread, hose, boss mouth



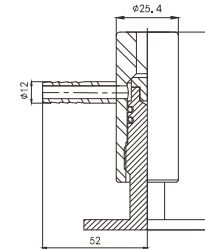
开启阀门，取样操作
Open valve, sampling operating
structure



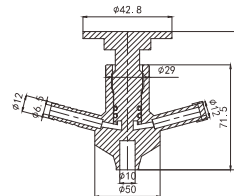
关闭阀门，灭菌消毒操作
Close valve, sterilization
operating structure



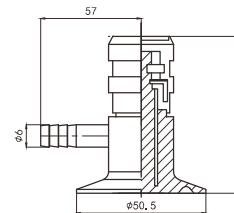
卡箍式无菌取样阀 NO.RY02001
Clamped Aseptic Sample Valve



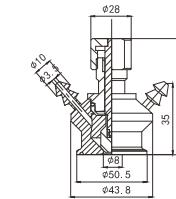
焊接式取样阀 NO.RY02004
Welded Sample Valve



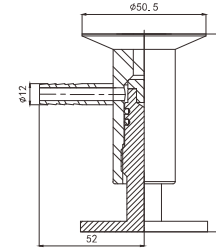
焊接式无菌取样阀 NO.RY02007
Welded Aseptic Sample Valve



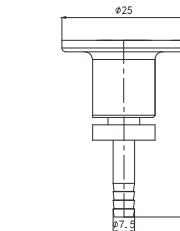
NO.RY02010



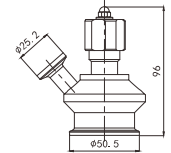
卡箍式无菌取样阀 NO.RY02002
Welded Aseptic Sample Valve



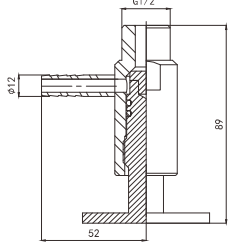
卡箍式取样阀 NO.RY02005
Clamped Sample Valve



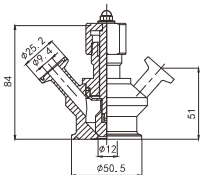
卡箍式取样阀 NO.RY02008
Clamped Sample Valve



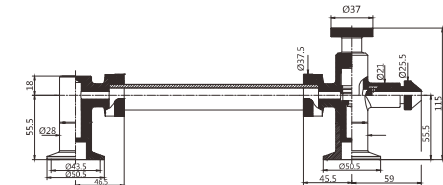
卡箍式无菌取样阀 NO.RY02003
Welded Aseptic Sample Valve



螺纹式取样阀 NO.RY02006
Thread Sample Valve



NO.RY02009



液位计 NO.RY02011
Liquid Level Meter

SANITARY 卫生级罐体配件 TANK ACCESSORIES

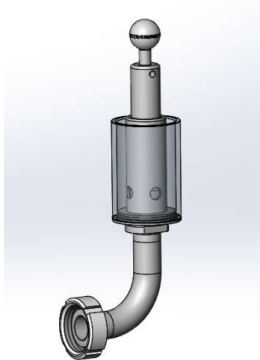


SANITARY EXHAUST VALVE

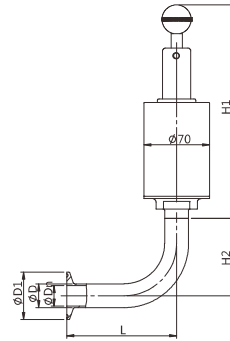
卫生级排气阀



NO.RVP160202



NO.RVP160103



NO.RVP160101

3A 排气阀（快装）

3A EXHAUST VALVE (CLAMP)

SIZE	ΦDn	ΦD	ΦD1	L	H1	H2
3/4"	15.8	19.1	25.2	117	228	83
1"	22.1	25.4	50.5	117	228	83
1.25"	28.5	31.8	50.5	117	228	83
1.5"	34.8	38.1	50.5	117	228	83

DIN 排气阀（快装）

DIN EXHAUST VALVE (CLAMP)

SIZE	ΦDn	ΦD	ΦD1	L	H1	H2
DN20	19	22	34	117	228	83
DN25	25	28	50.5	117	228	83
DN32	31	34	50.5	117	228	83
DN40	37	40	50.5	117	228	83

SANITARY SAFETY VALVE

卫生级安全阀



材料

阀门材质：SS304/SS316L

密封材质：EPDM,VMQ,FPM

MATERIAL

Valve Material : SS304/SS316L

Seal Material : EPDM,VMQ,FPM

应用

此系列安全阀是卫生级不锈钢阀门，它的安全设计使它能保护设备，所以它安装在排放压力的回路，对管路、泵、装置、储罐等起安全保护作用。广泛应用于食品、饮料、乳制品、啤酒等行业。

APPLICATIONS

This series safety valve is the sanitary stainless steel valve, its safety design make it protect the equipment, so it installed in the return circuit of discharge pressure, it's good for safety protect function in pipeline, pump, device, storage tank. Extensivelo use to food, beverage, dairy, beer industry etc.

工作原理

此系列安全阀是通过调整弹簧的压紧螺母来校准一个特定压力。校准压力是为了避免设备损坏而定的最大安全压力值。在正常的工作压力下，阀门关闭的；当系统压力超过校准压力时，阀门开启。管道系统中的压力得到释放，从而达到对管路及设备的保护。

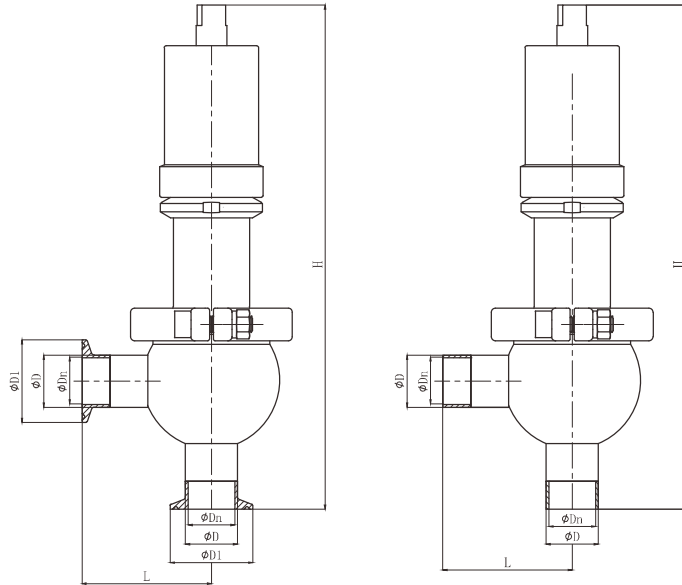
WORKING PRINCIPLE

This series safety valve is calibration one specific pressure by adjust gland nut.calibration pressure is the max. safety pressure in order to avoid equipment damage.Under the normal working pressure,the valve is close;When the pressure of system beyond the calibration pressure,the valve will be open.The pressure in the pipeline system get release, thus protect the pipeline and equipment.

SANITARY SAFETY VALVE

卫生级安全阀

安全阀 (溢流阀) SAFETY VALVE(RELIF VALVE)



3A 卫生级安全阀 (焊接/快装)

3A SANITARY SAFETY VALVE (WELD/CLAMP)

SIZE	ΦDn	ΦD	ΦD1	L	H
1"	22.1	25.4	50.5	59	250
1.5"	34.8	38.1	50.5	59	250
2"	47.5	50.8	64	88	310

SANITARY ANGLE SEAT VALVE

卫生级角座阀



技术参数 TECHNICAL DATE

压力范围: 0-2.5Mpa(即PN0-PN25)

介质温度: -20°C~+180°C (常温型)

-20°C~+300°C (高温型)

环境温度: -10°C~+60°C

Range of pressure:0-2.5Mpa(PN0-PN25)

Medium temperature: -20~+180°C(normal type)

-20~+300°C(high temperature)

enviroment temperature:-10~+60°C

材料 TECHNICAL DATE

阀体材料: 304/316L不锈钢

密封材料: 聚四氟乙烯

执行机构外壳: 聚酰胺、不锈钢

The valve body material :stainless steel 304/316L.

Seal material:PTFE

The shell of actuator:

polyamide and stainless steel.

APPLICATIONS

Control gas: neutral gas, air control liquid: automation industry control fluid,foodstuff dairy industry,domestic water,common pipeline fluid medium and so on.The angle seat valve is extensively use to frequently start in short time, with feature of response delicacy and exact action.

WORKING PRINCIPLE

angle seat valve keep the flow speed and can save the space, it adopt oriented angle seat valve which have spring safety protective single function pneumatic actuator for operated. When use,should choose normally open or close.The product is made of steel and PTFE,it can use to the majority gas, fluid, steam and causticity occassion.It have radiator to the actuator, ensure can use longer.

DESIGN FEATURES

应用

控制气体: 中性气体, 空气控制液体: 自动化工业控制流体、食品级乳工业、生活用水、普通管道流体介质等。角座阀广泛应用于短时间频繁启动, 具有反应灵敏, 动作准确的特点。

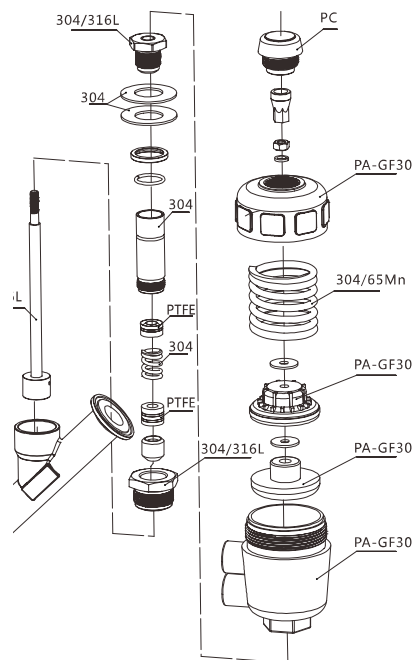
工作原理

角座阀保持流速能够节省空间, 它采用带弹簧安全保护的单作用气动执行机构来操作的导向角座阀。使用时, 应该选择常开或常闭。产品由不锈钢铸造和聚四氟乙烯, 可用于大多数气体、液体、蒸汽和腐蚀性场合。它带有散热器来保护执行机构, 确保阀具有较长寿命。

设计特点

- 具有阀门开或关位置显示。
- 外部气动先导, 可增加使用寿命, 免维护。
- 溢流口与滑块间有自调节密封压盖, 可提高密封性能。
- 阀体角座结构, 可实现大流量(特别是与普通截止阀相比较), 结构紧凑响应快。

SANITARY ANGLE SEAT VALVE 卫生级角座阀



STANDARD DESIGN

根据弹簧复位达到开启

给气控制其开关。(根据控制更精准)

快装、螺纹或者法兰式

气动角座阀和不锈钢气动角

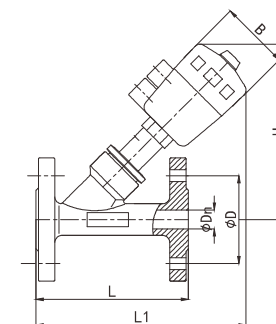
Single function(The pneumatic head usually a hole): working principle: to reach the open and close function according to spring reset, it divide into normally open and close.

Double function(The pneumatic head usually two hole): working principle: give the air to control switch. (according to customer's required, it can choose double function add spring rest, control precise)

The pneumatic angle seat valve according to pipeline installation category can divide into: welded, clamped, threaded and flanged connect type.

The actuator of the pneumatic angle seat valve can divide into: plastic actuator angle seat valve and stainless steel actuator angle seat valve.

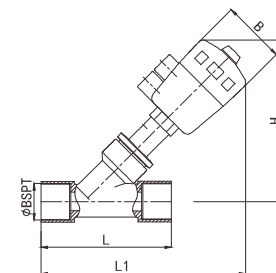
SANITARY ANGLE SEAT VALVE 卫生级角座阀



气动角座阀 (法兰)

PNEUMATIC ANGLE SEAT VALVE (FLANGE)

SIZE	L	L1	D1(螺栓孔距)	Dn(内孔)	H(高度)	B(执行器)
DN15	130	182	65	16	150	65
DN20	130	182	75	21	150	65
DN25	140	220	85	26	195	82
DN32	150	225	100	33	205	82
DN40	180	240	110	40	205	82
DN50(小头)	195	260	125	50	225	82
DN50(大头)	195	285	125	50	245	100
DN65	230	300	145	70	255	100
DN80	250	355	160	80	330	125
DN100	300	385	180	105	355	125

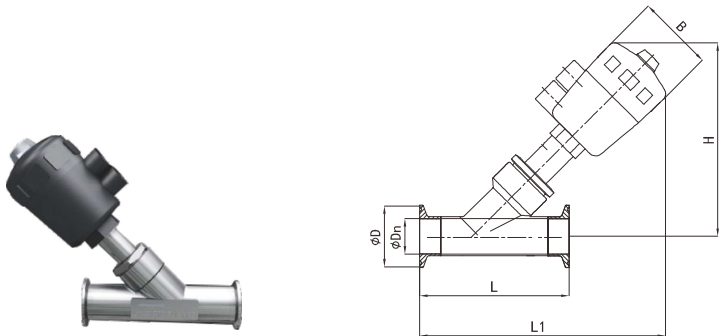


气动角座阀 (内螺纹)

PNEUMATIC ANGLE SEAT VALVE (FEMALE THREAD)

SIZE	L	L1	BSPT	H	B
DN10	65	155	3/8	125	51
DN15	85	163	1/2	141	65
DN20	95	180	3/4	145	65
DN25	105	184	1	151	65
DN32	120	225	1-1/4	183	82
DN40	130	237	1-1/2	188	82
DN50	150	267	2	217	100
DN65	185	282	1-1/2	298	126
DN80	220	362	3	302	126

SANITARY
ANGLE SEAT VALVE
卫生级角座阀



气动角座阀（快装）
PNEUMATIC ANGLE SEAT VALVE (CLAMP)

SIZE	L	L1	D	Dn	H	B
DN15	130	175	50.5	16	145	65
DN20	130	180	50.5	21	155	65
DN25(小头)	140	195	50.5	26	160	65
DN25(大头)	140	220	50.5	26	182	82
DN40	165	240	50.5	40	210	82
DN50(大头)	195	280	64	40	242	100



各国不锈钢牌号

Stainless Steel Standards of Different Countries

中 国	欧 盟	美 国	美 国	英 国	德 国	日 本
GB (China)	EN (Europa)	AISI (U.S.A)	ASTM (U.S.A)	BSI (U.K)	DIN (Germany)	JIS (Japan)
0Cr18Ni9 (06Cr19Ni10)	X5CrNi18-10	304	TP304	304 S 15 304 S 16	1.4301	SUS304
00Cr19Ni10 (022Cr19Ni10)	X2 CrNi19-11	304L	TP304L	304 S 11	1.4306	SUS304L
0Cr17Ni12Mo2 (06Cr17Ni12Mo2)	X5CrNiMo17-2-2	316	TP316	316 S 31	1.4401	SUS316
00Cr17Ni14Mo2 (022Cr17Ni12Mo2)	X2CrNiMo17-2-2	316L	TP316L	316 S 11	1.4404	SUS316L

化学成分与力学性能

Chemical Composition and Mechanics Property

中国 (GB)	钢种	碳	硅	锰	磷	硫	铬	钼	镍	力学性能			
		≤	≤	≤	≤	≤				屈服强度	抗拉强度	延伸率	硬度HB
	C	Si	Mn	P	S	Cr	Mo	Ni		σ ₂ (Mpa)≥	σ _b (Mpa)≥	δ 5 %	≤
	304	0.07	1.0	2.0	0.035	0.030	18.0-20.0	/	8.0-11	205	520	40	187
	304L	0.03	1.0	2.0	0.035	0.030	18.0-20.0	/	8.0-12	177	480	40	187
美国 (ASTM)	钢种	碳	硅	锰	磷	硫	铬	钼	镍	力学性能			
		≤	≤	≤	≤	≤				屈服强度	抗拉强度	延伸率	硬度HB
	C	Si	Mn	P	S	Cr	Mo	Ni		σ ₂ (Mpa)≥	σ _b (Mpa)≥	δ 5 %	≤
	TP304	0.08	0.75	2.0	0.040	0.030	18.0-20.0	/	8.0-11	205	515	35	187
	TP304L	0.035	0.75	2.0	0.040	0.030	18.0-20.0	/	8.0-13	170	485	35	187
日本 (JIS)	钢种	碳	硅	锰	磷	硫	铬	钼	镍	力学性能			
		≤	≤	≤	≤	≤				屈服强度	抗拉强度	延伸率	硬度HB
	C	Si	Mn	P	S	Cr	Mo	Ni		σ ₂ (Mpa)≥	σ _b (Mpa)≥	δ 5 %	≤
	304	0.08	1.0	2.0	0.040	0.030	18.0-20.0	/	8.0-11	206	520	35	187
	304L	0.03	1.0	2.0	0.040	0.030	18.0-20.0	/	9.0-13	177	481	35	187
美国 (AISI) 英国 (BSI) 德国 (DIN) 欧盟 (EN)	钢种	碳	硅	锰	磷	硫	铬	钼	镍	力学性能			
		≤	≤	≤	≤	≤				屈服强度	抗拉强度	延伸率	硬度HB
	C	Si	Mn	P	S	Cr	Mo	Ni		σ ₂ (Mpa)≥	σ _b (Mpa)≥	δ 5 %	≤
	304	0.07	1.0	2.0	0.045	0.015	17.0-18.0	/	8.0-10	205	520	40	187
	304L	0.03	1.0	2.0	0.045	0.015	17.0-18.0	/	8.0-10	180	480	40	187
	316	碳	硅	锰	磷	硫	铬	钼	镍	力学性能			
		≤	≤	≤	≤	≤				屈服强度	抗拉强度	延伸率	硬度HB
	C	Si	Mn	P	S	Cr	Mo	Ni		σ ₂ (Mpa)≥	σ _b (Mpa)≥	δ 5 %	≤
	316	0.08	1.0	2.0	0.045	0.015	16.5-18.0	2.0-2.5	10-13	205	520	40	187
	316L	0.03	1.0	2.0	0.045	0.015	16.5-18.0	2.0-2.5	10-13	180	480	40	187



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