

上海沃托阀门有限公司

SHANGHAI WOTUO VALVE CO.,LTD.

地 址：上海市奉贤区川南奉公路 9860 号

电 话：021-57522756

传 真：021-33275154

邮 箱：swb@wotuo.net

网 址：www.wotuo.net

上海沃托阀门有限公司

- BIOMEDICINE
- FOOD AND BEVERAGE
- FINE CHEMICALS
- LITHIUM BATTERY
- SEMICONDUCTOR INDUSTRY

• 生物医疗 • 食品饮料 • 精细化工 • 锂电、半导体行业





BALL VALVE,
OR WOTUO GOOD!
球阀, 还是沃托好!

在球阀领域, 沃托坚持“创新驱动、质量为先、绿色发展、结构优化、人才为本”的基本方针, 为用户提供高品质、有效的工程产品解决方案。

优质的产品是打开市场的钥匙, 沃托人本着精益求精的工匠精神, 满足客户高品质、可靠、快速等个性化需求。

20年来, 沃托产品在广大用户的生产系统中发挥着越来越重要的作用。

企业简介 Production Department

上海沃托阀门有限公司是一家集研发、制造、销售、服务为一体的专业阀门企业，致力于一流阀门的研发与制造，重点解决严苛工况阀门的疑难问题，持续不断地制造出具有世界先进水平的工业阀门为己任，为客户提供全方位最佳的阀门解决方案，争创成为“源自中国的世界级工业阀门提供商”。

公司拥有自营进出口权和雄厚的生产实力，多台先进进口数控机床、加工中心和检测设备。并通过 ISO9001:2008 国际质量管理体系认证，以可靠的质保体系和技术精湛的生产管理团队，生产出优质、精良的产品。阀门和管件符合 ISO、DIN、IDF、SMS、3A，公司产品主要有：手动、气动、电动闸阀、截止阀、止回阀、蝶阀、球阀、调节阀、安全阀等。产品广泛应用于制药、饮料、食品、啤酒、精细化工、水处理等行业领域，并获得广大用户的认可和好评。

近年来，公司不断加大软硬件投入，夯实了技术基础，保障了质量发展。建有国际先进的 CAD 阀门设计中心和三维立体模拟制造试验设计系统以及新产品开发中心。拥有加工中心、大型数控立车、数控机床、等离子堆焊等精良的机械专用加工设备，并配有现代化的检测装置，建立了先进的阀门实验和检测中心。公司产品全面覆盖 IOS9001 质保体系，并通过国家质检总局 TS 特种设备认证、欧共体 CE 安全认证、美国石油协会 API 认证、德国 TUV 和法国国际检验局 BV 等认证。

公司遵循“专业、诚信、高效、创新”的企业精神，回馈社会、回馈合作伙伴、回馈员工，将品质与创新置于企业生存的首位。在引进与汲取国外先进技术的同时，更注重实验研究成果和技术创新，积极钻研，努力进取，并将在专业领域长年累月中点点滴滴积累的经验、数据和智慧，都融入到企业发展中来，厚积薄发，砥砺前行。

Shanghai Wotuo Valve Co., Ltd. is a professional valve company integrating R & D, manufacturing, sales and service. It is committed to the development and manufacture of first-class valves. It focuses on solving the difficult problems of harsh working conditions and continuously produces the world Advanced level of industrial valves as its mission, to provide customers with the best all-round valve solutions, striving to become "from China's world-class industrial valve providers."

The company has the right to import and export and strong production strength, more than one advanced CNC machine tools, processing centers and testing equipment. And through the ISO9001: 2008 international quality management system certification, a reliable quality assurance system and superb production management team, to produce high-quality, sophisticated products. Valves and fittings comply with ISO, DIN, IDF, SMS, 3A. The company's main products include: manual, pneumatic, electric gate valves, globe valves, check valves, butterfly valves, ball valves, control valves, safety valves, etc. Products are widely used in pharmaceutical, beverage, food, beer, fine chemicals, water treatment and other industries, and access to the vast number of users recognized and praised.

In recent years, the company continued to increase investment in hardware and software, reinforce the technical basis to protect the quality of development. Built the international advanced CAD valve design center and three-dimensional simulation manufacturing test design system and new product development center. With the processing center, large-scale CNC vertical lathe, CNC machine tools, plasma surfacing and other sophisticated machinery for processing equipment, and equipped with modern detection devices, the establishment of advanced valve testing and testing center. The company's products comprehensive benefits IOS9001 quality assurance system, and through the AQSIQ special equipment certification, the European Community CE certification, the American Petroleum Institute API certification, the German TUV and the French International Inspection Bureau BV certification.

Companies follow the "professional, honest, efficient and innovative" spirit of enterprise, contribute to the community, feedback partners, feedback staff, quality and innovation will be placed in the first place of business survival. In the introduction and absorption of foreign advanced technology at the same time, pay more attention to experimental research and technological innovation, and actively study, and strive to forge ahead, and in the field of expertise in the past few years of accumulated experience, data and wisdom, are integrated into the enterprise development, Accumulate, tempered forward.

伟大的目标, 永恒的追求

——沃托

Great goal, eternal pursuit

——WOTUO

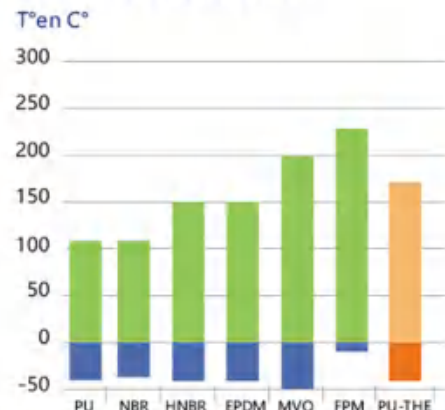


沃托高品质密封圈

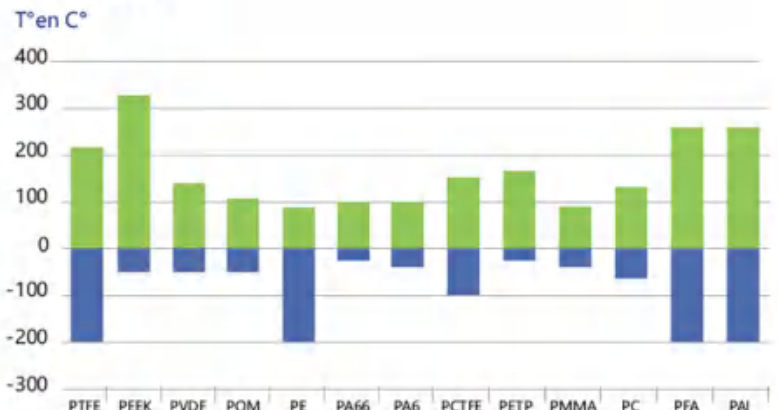
密封圈的产品材质采用泰克尼尔（来自法国），公司组织合理、管理有效、技术精湛，在密封件的专业领域不断创新。

以下温度仅供参考之用，材料的实际耐温性也与工作条件有关(压力,外界环境...)
The following temperatures are given only as a guide.The actual resistance depends also on working conditions (stress, environment...)

橡胶
Elastomer/Elastomer



塑料/Plastics



我们建议使用这个物性与PU类似的新型橡胶，它可以在高温环境下替代PU。(最高170摄氏度)
We propose this new rubber with a structure similar to PU. It can be used instead of the latest for high temperature environment (up to 170°)
根据您的需求，选择以下认证。



塑料-物性
Plastics-Properties

以下给出的物性仅为了帮助您挑选材料作指导之用。填充物和材料类型的不同，某些物性会有些许变化。(PA6 / PA66等等)
The properties given below are for guidance only to help you select materials. Some physical properties will vary slightly depending on the type of filler and material. (PA6 / PA66 etc.)

	PA	POM	PE	PTTE	PEEK	PETP	PC	PVDF
耐磨性 Abrasion Resistance	很好 Very good	一般 general	极好 exceptional	一般 general	极好 Very good	很好 Very good	一般 general	好 Good
抗寒性 Cold Resistance	好 Good	好 Good	一般 general	一般 general	很好 Very good	很好 Very good	好 Good	一般 general
脆性 Brittleness	极好 Very good	一般 General	极好 Very good	很好 Very good	好 Good	不用 No need	极好 Very good	一般 general
摩擦系数 Friction Coefficient	很好 very good	一般 general	很好 Very good	极好 Very good	很好 Very good	很好 Very good	-	很好 Very good
不易变形 Dimensional Stability	不用 Donot use 吸潮 Humidity iake up	好 Good	不用 Donot use 膨胀 Dilatation	不用 Donot use 膨胀 Dilatation	极好 Very good	很好 Very good	好 Good	一般 general
抗化学性 Chemical Resistance	一般 General	一般 General	很好 Wery good	极好 Very good	很好 Very good	一般 General	一般 General	很好 Very good
耐蒸汽 Steam Resistance	不用 No need	一般 general	一般 general	很好 Very good	很好 Very good	不用 No need	-	好 Good
电气绝缘 Electrical Insulation	好 Good	好 Good	极好 euectional	好 Good	很好 Very good	好 Good	好 Good	-

生产/装备 production/equipment

为了提供高品质产品, 我司配置了检测设备以及检测手段, 实现了从原材料检测、生产过程控制, 产品及应用全过程质量控制。

In order to provide high-quality products, our company is equipped with testing equipment and testing methods to realize the whole process quality control from raw material testing, production process control, product and application.



Catalogue 目录

卫生级球阀
Sanitation Ball Valve



13-46

卫生级直通球阀
Sanitary Straight Ball Valve

卫生级气动直通球阀
Sanitary Pneumatic Straight Ball Valve

卫生级三通球阀
Sanitary Three-way Ball Valve

卫生级气动三通球阀
Sanitary Pneumatic Three-way Ball Valve

卫生级直通球阀
Sanitary Straight Ball Valve

卫生级三通球阀
Sanitary Three-way Ball Valve

三片式全包球阀
Three-piece All-Inclusive Ball valve

气动三片式全包球阀
Pneumatic Three-piece All-Inclusive ball valve

卫生级三通球阀
Sanitary Three-way Ball Valve

卫生级三通螺纹球阀
Sanitary Three-way Threaded Ball Valve

卫生级蝶阀
Sanitary Butterfly Ball Valve

卫生级无滞留球阀
Sanitary Non-retention Ball Valve

卫生级三片式全包球阀
Sanitary Three-piece All-Inclusive Ball Valve

三片式气动全包球阀
Three-piece Pneumatic All-Inclusive Ball Valve

手动快装三通球阀
Manual Quick Release Three-way Ball Valve

卫生级法兰球阀
Sanitary Flange Ball Valve

卫生级三片式电动全包球阀
Sanitary Three-piece Electric All-Inclusive Ball Valve

方形三通球阀
Square Three-Way Ball Valve

气动方形三通球阀
Pneumatic Square Three-way Ball Valve

衬氟快装球阀
Fluorine-lined Quick-load Ball Valve

衬氟三通球阀
Fluorine-lined Three-Way Ball Valve

衬氟快装弯头
Fluorine-lined Quick Fitting Elbow

衬氟快装三通
Fluorine lining Quick Packing Tee

手动罐底全包球阀
Manual Tank Bottom All-Inclusive Ball Valve

气动罐底全包球阀
Pneumatic Tank Bottom All-Inclusive Ball Valve

高纯度球阀
High Purity Ball Valves

保温球阀
Insulation ball valve

酿酒球阀
Wine Ball Valve

卫生级蝶阀
Sanitary Butterfly Valve



47-58

卫生级蝶阀
Sanitary Butterfly Valve

不锈钢气动执行器
Stainless Steel Pneumatic Actuator

卫生级蝶阀手柄
Sanitary Butterfly Valve Handle

卫生级手动焊接蝶阀
Sanitary Manual Welded Butterfly Valve

卫生级手动快装蝶阀
Sanitary Manual Quick Installation Butterfly Valve

卫生级气动焊接蝶阀
Sanitary Pneumatic Welding Butterfly Valve

卫生级气动快装蝶阀
Sanitary Pneumatic Quick Installation Butterfly Valve

卫生级手动三片式蝶阀
Sanitary Manual Three-piece Butterfly Valve

卫生级手动螺纹蝶阀
Sanitary Manual Thread Butterfly Valve

卫生级气动螺纹蝶阀
Sanitary Pneumatic Threaded Butterfly Valve

卫生级气动三片式蝶阀
Sanitary Pneumatic Three-piece Butterfly Valve

卫生级隔膜阀
Sanitation Diaphragm
Valve



59-70

隔膜阀行业应用

Diaphragm Valve Industry Application

无菌隔膜阀

Aseptic Diaphragm Valve

焊接接口

Welding Interface

卡箍接口

Clamp Interface

B600 GMP/SAP阀门构造

B600 GMP/SAP Valve Construction

表面光洁度

Surface Finish

隔膜

Diaphragm

隔膜片

Diaphragm

高温型卫生级隔膜阀

High Temperature Sanitary Diaphragm Valve

产品型号/订购代码说明

Product Model / Order Code Description

卫生级管件
Sanitary Fittings



71-86

卫生级活接头

Sanitary Union

卫生级管件

Sanitary Fittings

卫生级快装接头

Sanitary Quick Fittings



卫生级球阀
SANITARY BALL VALVE



卫生级直通球阀 Sanitary Straight Ball Valve

应用 Applications

该类型球阀系列是一款卫生型的用于物料传送控制的一类阀门系列。广泛应用于食品、饮料加工, 以及制药和化学工业领域。

This type of ball valve series is a hygienic type of valve series used for material transfer control. Widely used in food and beverage processing, as well as in the pharmaceutical and chemical industries.

标准设计 Standard Design

有各标准的阀门系列可以向客户提供, 即用于DIN标准系列, 3A标准系列, SMS标准系列, ISO/IDF标准系列, BS/RJT标准系列, ASME/BPE等标准系列。

球阀的组成部件一般包括: 一个手柄、一个带有贯通腔的球体、阀体、阀门轴芯以及轴密封圈。

现有的球阀系列规格有: 焊接式球阀、卡箍式球阀、螺纹式球阀等系列球阀。

Valve series of various standards can be provided to customers, namely for DIN standard series, 3A standard series, SMS standard series, iso/idf standard series, bs/rjt standard series, asme/bpe and other standard series.

The components of the ball valve generally include: a handle, a ball with a through cavity, a valve body, a valve shaft core and a shaft sealing ring.

The existing ball valve series specifications include: welded ball valve, clamp ball valve, threaded ball valve and other series of ball valves.

材料 Material

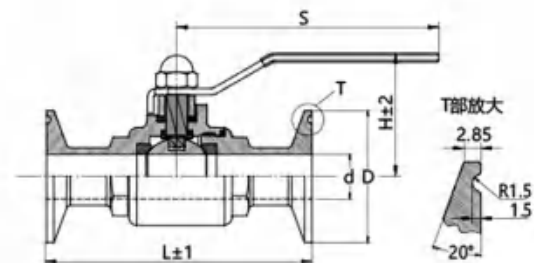
钢制部件: SUS304, SUS316L

密封件: PTFE, PPL

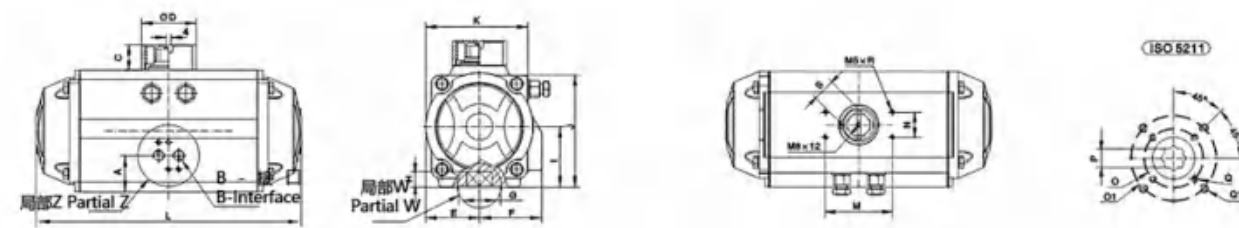
Steel parts: SUS304, SUS316L

Sea: PTFE, PPL

Size	d	D	L	H	S
1/2"	10	25.5	75	41	95
3/4"	17	50.5	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



卫生级气动直通球阀 Sanitary Pneumatic Straight Ball Valve

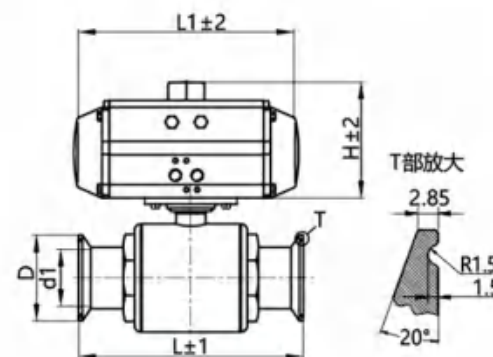


卧式气动执行器

Horizontal Pneumatic Actuator

尺寸(毫米)
size:mm

	型号 Model	WH050 D/S	WH063 D/S	WH075 D/S	WH083 D/S	WH105 D/S	WH125 D/S	WH140 D/S	WH160 D/S	WH180 D/S	WH200 D/S	WH240 D/S	WH265 D/S	WH330 D/S
尺寸 Size (mm)	L	140.5	158.5	210.5	247.5	268.5	345	408.5	437.5	487	543	621	684	-
	J	69	85	102	115	127	157	177	196	220.5	245	298.5	330	-
	E	29	36	42.5	49.5	56	69.5	80	88	99	110	131	163.5	-
	F	41.5	47	52	56.8	67	82	91.5	99	105	112	131	166	-
	S	11	11	19	19	19	27	27	27	42	42	42	42	-
	I	34.5	42.5	51	57.5	63.5	78.5	88.5	98	111.5	122	150.5	165	-
备注 Remarks	P	9	11	17	17	17 22	27	27	27	27	27	36	36	-



Size	d	D	L	气缸型号 Cylinder model
1/2"	10	25.5	75	AT40
3/4"	17	50.5	100	AT52
1"	22	50.5	120	AT63
1 1/4"	28	50.5	130	AT63
1 1/2"	35	50.5	140	AT75
1 3/4"	42	64	150	AT75
2"	47.5	64	164	AT83
2 1/4"	53	77.5	164	AT83
2 1/2"	60	77.5	190	AT92
3"	67	91	215	AT105
3 1/2"	86	106	225	AT105
4"	100	119	260	AT125
5"	125	145	320	AT140



卫生级三通球阀 Sanitary Three-way Ball Valve

工作原理以应用 Working Principle And Application

三通球阀流向分T型和L型, 通过360°旋转T型能使三条正交的管道相互联通或切断任意一条管道的流向, 起分流、合流作用, L型三通球阀只能连接相互正交的两条管道, 不能保持第三条管道的同时连通, 只能起到分配作用。三通球阀主要用来做切断、分配和改变介质的流动方向。

The flow direction of the three-way ball valve is divided into T-type and L-type. By rotating the T-type 360°, three orthogonal pipes can be connected to each other or the flow direction of any one pipe can be cut off, which plays the role of diversion and confluence. The L-type three-way ball valve can only be connected to each other. The two crossed pipelines cannot keep the third pipeline connected at the same time, and can only play a distribution role. The three-way ball valve is mainly used to cut off, distribute and change the flow direction of the medium.

材料 Material

钢制部件: SUS304, SUS316L

密封件: PTFE, PPL

Steel parts: SUS304, SUS316L

Seal: PTFE, PPL

T型通口

T type gateway

A向入口 (A inlet)

90°旋转方向 (90 rotation direction)



90°旋转方向 (90 rotation direction)



L型通口

L type gateway

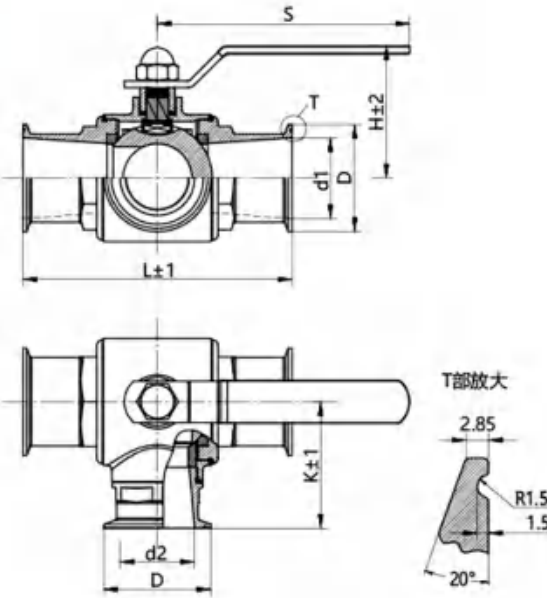
A向入口 (A inlet)

90°旋转方向 (90 rotation direction)



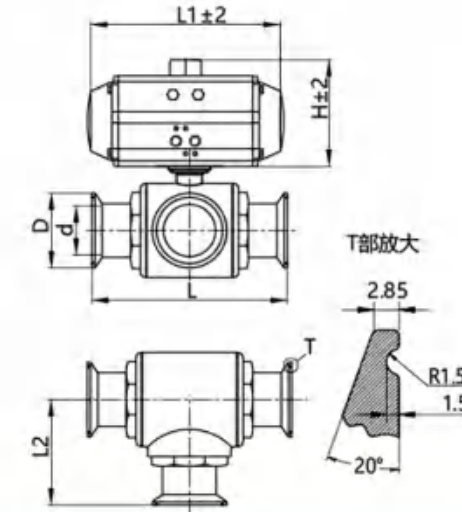
B向C向切换入口 (B,C switch inlets)

90°旋转方向 (90 rotation direction)



Size	d1	d2	D	L	K	H	S
3/4"	17	17	50.5	105	50.5	56	102
1"	22	22	50.5	120	60	62	142
1 1/4"	29	29	50.5	130	66	74	142
1 1/2"	35	35	50.5	155	74	75	142
2"	47.5	42	64	168	84	88	165
2 1/4"	53	52	77.5	195	92	96	230
2 1/2"	59	67	77.5	195	111	109	230
3"	72	66	91	215	116	112	230
3 1/2"	80	80	106	230	131	129	256
4"	100	94	119	260	147	164	332

卫生级气动三通球阀 Sanitary Pneumatic Three-way Ball Valve



技术参数 Technical Parameters			
金属材质 Metal material	与产品接触的零部件 Contact with the product components	CF8 / CF3M (304/316L) 铸造 / 锻造 CF8 / CF3M (304/316L) Casting / Forging	可提供材质检测报告单 Can provide material inspection report
	不与产品接触的零部件 Parts that do not come into contact with the product	304 (1.4301)	
密封材质 Sealing material	标配 Standard	国产优质聚四氟乙烯 PTFE	符合FDA177.2600/3A/USP食品、饮用水、微生物的基本要求。 In accordance with FDA177.2600/3A/USP for Food, drinking water and microorganisms and other health requirements
	选配 Option	进口大金/3M	
压力 Pressure	工作压力 Working pressure	0~16bar	
	控制气源压力 Control air pressure	3~8bar	
温度 Temperature	连续工作温度 Continual working temperature	PTFE:(-20 ~ +130℃) 大金M111: (-25 ~ +150℃)	
	灭菌温度 Sterilization temperature	150℃ (Max 20min)	
表面处理 Surface treatment	内表面处理 Inside surface treatment	Ra≥0.4-0.8μm	
	外表面处理 Surface treatment	Ra≥0.8-1.6μm	
连接方式 Connection	焊接端管径 The diameter welding	焊接口: DIN 11850 - 2 with 11850-1 / SMS / 3A / ISO 等系列 Welding connection: DIN 11850-2 with 11850-1 / SMS / 3A / ISO Series etc	
	连接方式: 焊接、快装、外螺纹、内螺纹、法兰等 Connection mode: welding, clamp, male and female, flange, etc		
气动控制 Pneumatic control	气动头及固定支架 Pneumatic head and fixed bracket		

Size	d1	d2	D	L	K	气缸型号 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

卫生级直通球阀 Sanitary Straight Ball Valve

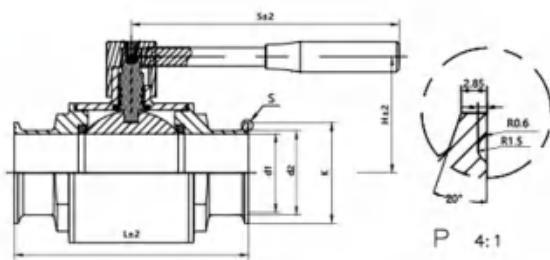
技术参数 Technical Parameters

采用进口密封材料, 所有密封材质均符合FDA 177.2600
工作温度: -20~+135°C(EPDM/PTFE)
灭菌温度: 150°C(max.20min)
工作压力: 1.6Mpa(16bar)
介质: 水、饮料、乳品、药剂等
连接方式: 3A/DIN/SMS/ISO(焊接、快装、螺纹、法兰)
Using imported sealing materials, all sealing materials comply with FDA 177.2600
Working temperature: -20~+135°C(EPDM/PTFE)
Sterilization temperature: 150°C(max.20min)
Working pressure: 1.6Mpa(16bar)
Medium: water, beverages, dairy products, pharmaceuticals, etc.
Connection method: 3A/DIN/SMS/ISO (welding, Quick installation, Thread, Flange)



(ISO, IDF, SMS, 3A, DS)

Size	d1	d2	K	H	L	S
1/2"	9.5	12.7	25.4	40	95	95
3/4"	15.9	19.1	50.5	40	108	145
1"	22.4	25.4	50.5	48	120	155
1 1/4"	28	31.8	50.5	52	130	155
1 1/2"	34.9	38.1	50.5	60	140	155
2"	47.6	50.8	64	68	160	165
2 1/2"	59.5	63.5	77.5	80	180	175
3"	72.2	76.2	91	86	210	190
3 1/2"	85	89	106	94	225	190
4"	97.6	101.6	119	115	255	245



卫生级三通球阀 Sanitary Three-way Ball Valve

应用 Application

该类型球阀系列是一款卫生型的用于物料传送控制的一类阀门系列。广泛应用于食品、饮料加工, 以及制药和化学工业领域。

This type of ball valve series is a hygienic type of valve series used for material transfer control. Widely used in food and beverage processing, as well as in the pharmaceutical and chemical industries.

工作原理 Working Principle

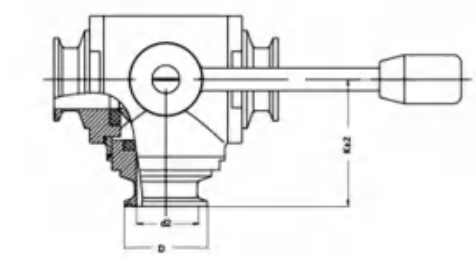
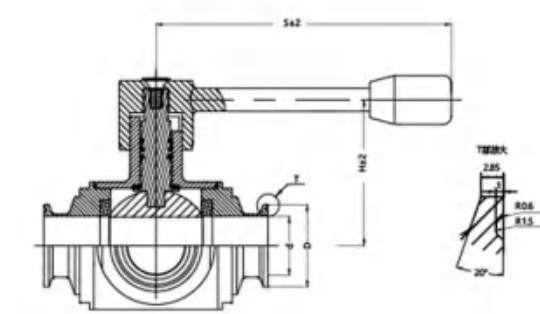
通过360°旋转手柄, 从而360°带动有贯通腔的精确制造的球体, 以开启或关闭阀门, 达到控制介质流量。

By rotating the handle 360°, a precisely manufactured ball with a through cavity is driven 360° to open or close the valve to control the flow of the medium.



(3A, SMS, ISO, IDF, BS)

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



三片式全包球阀

Three-piece All-Inclusive Ball Valve

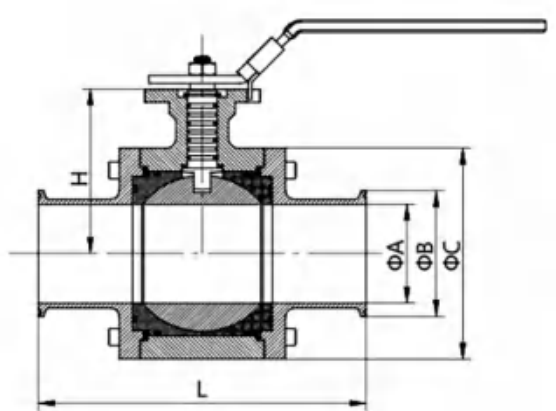
应用 Applications

该球阀根据生物制药、食品饮料、酿酒、化工等管道设计。
The ball valve is designed according to the pipelines of biopharmaceutical, food and beverage, winemaking, chemical industry, etc.

技术特点 Application

无滞留高洁净, 扭矩小寿命长特点, 正常开关次数达20万次上, 耐高温180°C, 压力30bar, 拆洗方便。无抛光处理, 全锻制生产。
No retention, high cleanliness, small torque and long service life, the normal switching times are up to 200,000 times, high temperature resistance 180 °C, pressure 30 bar, easy to disassemble and wash. Unpolished, fully forged production.

适用于锂电池行业
Applicable to lithium battery industry



Size	A	B	C	L	H
1/2"	9.7	50.5	56	90	59
3/4"	16	50.5	62	90	61
1"	22.4	50.5	70	115	66
1 1/2"	35.1	50.5	92	142	80
2"	47.8	64	108	156	91
2 1/2"	59.5	77.5	130	197	103
3"	72.2	91	158	220	114
DN80	81	106	158	230	123
4"	97.6	119	192	240	135
5"	120	145	230	260	160

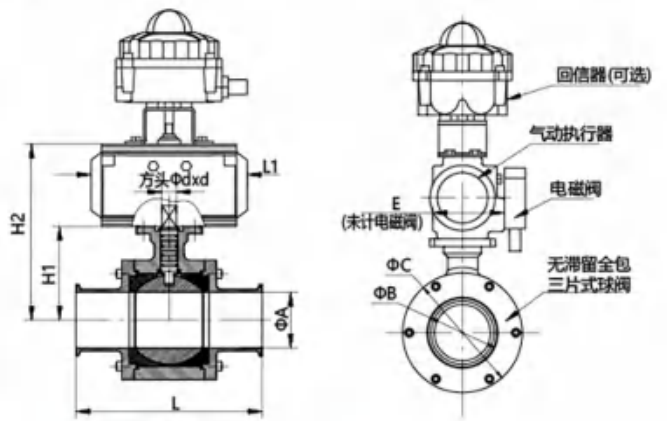
气动三片式全包球阀

Pneumatic Three-piece All-Inclusive Ball Valve

技术参数 Technique Parameter

可提供EN 10204 3.1B证书。
采用进口密封材料, 所有密封材质均符合FDA 177.2600
工作温度: -20~+180°C(EPDM/PTFE)
灭菌温度: 150°C(max.20min)
工作压力: 1.6Mpa(16bar)
介质: 水、饮料、乳品、药剂等
连接方式: 3A/DIN/SMS/ISO(焊接.快装.螺纹.法兰)
EN 10204 3.1B certificate available.
Using imported sealing materials, all sealing materials comply with FDA 177.2600
Working temperature: -20~+180°C(EPDM/PTFE)
Sterilization temperature: 150°C(max.20min)
Working pressure: 1.6Mpa(16bar)
Medium: water, beverages, dairy products, pharmaceuticals, etc.
Connection method: 3A/DIN/SMS/ISO (welding. Quick installation. Thread. Flange)

适用于锂电池行业
Applicable to lithium battery industry



Size	A	B	C	d	L	H1	H2	E	L1	气缸型号 Cylinder model
1/2"	9.7	50.5	56	9	90	59	120	65	122	AT40
3/4"	16	50.5	62	9	90	61	134	72	146	AT52
1"	22.4	50.5	70	9	115	66	155	85	170	AT63
1 1/2"	35.1	50.5	92	11	142	80	180	96	188	AT75
2"	47.8	64	108	11	156	91	201	134	211	AT83
2 1/2"	59.5	77.5	130	14	197	103	211	118	265	AT92
3"	72.2	91	158	17	220	114	249	120	274	AT105
DN80	81	106	158	17	230	123	279	140	302	AT125
4"	97.6	119	192	17	240	135	309	154	400	AT140
5"	120	145	230	22	260	160	357	175	460	AT160

卫生级三通球阀 Sanitary Three-way Ball Valve

应用 Applications

三通球阀在管路中主要用来做堵截,分配和改变介质的活动方向.球阀是近年来被广泛采用的一种新型阀门,广泛合用于食品与饮料、制药、石油、化工、生物加工等工况.

The three-way ball valve is mainly used to block, distribute and change the moving direction of the medium in the pipeline. The ball valve is a new type of valve that has been widely used in recent years. It is widely used in food and beverage, pharmaceutical, petroleum, chemical, biological processing, etc. working condition.

技术参数 Technique Parameter

可提供EN 10204 3.1B证书.
采用进口密封材料,所有密封材质均符合FDA 177.2600
工作温度: -20~+135°C(EPDM/PTFE)
灭菌温度: 150°C(max.20min)
工作压力: 1.6Mpa(16bar)
介质: 水、饮料、乳品、药剂等
连接方式: 3A/DIN/SMS/ISO(焊接:快装:螺纹)

EN 10204 3.1B certificate available.
Using imported sealing materials, all sealing materials comply with FDA 177.2600
Working temperature: -20~+135°C(EPDM/PTFE)
Sterilization temperature: 150°C(max.20min)
Working pressure: 1.6Mpa(16bar)
Medium: water, beverages, dairy products, pharmaceuticals, etc.
Connection method: 3A/DIN/SMS/ISO (welding. Quick release. Thread)



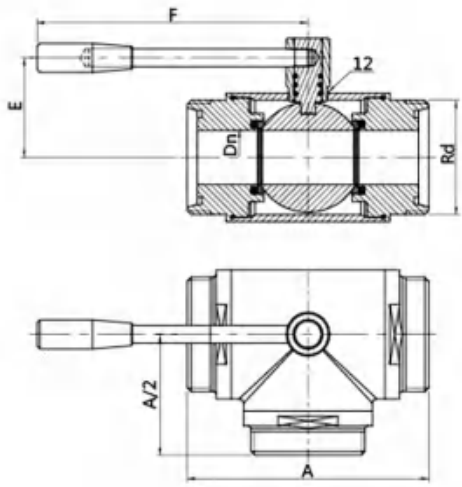
主要零件及材质 Main Parts and Materials

气动阀体 CF3/CF8M	阀体 CF3/CF8M	阀盖 F304/316L	阀座 PTFE	三通球体L/T 304/316L	阀杆 304/316L	压紧螺栓 304	手柄 304

卫生级三通螺纹球阀 Sanitary Three-way Threaded Ball Valve

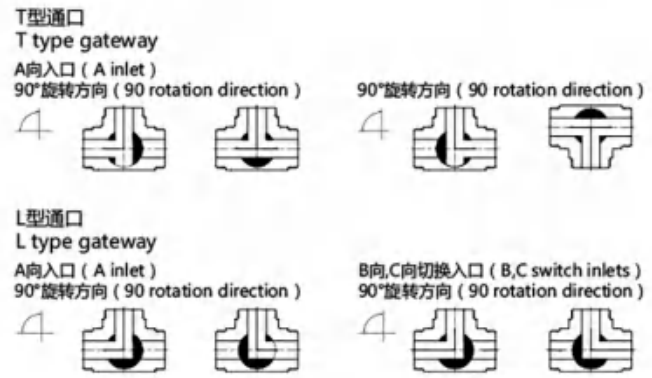
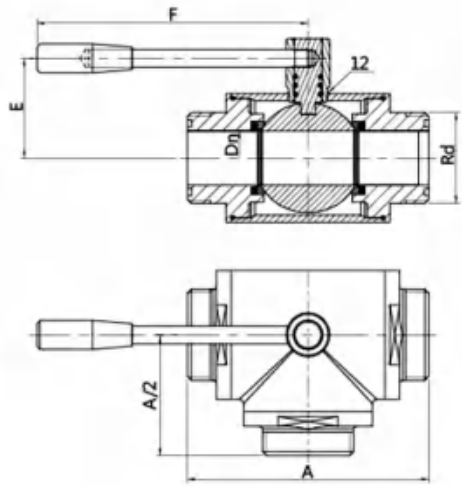
三通螺纹球阀(DIN) Three-way threaded ball valve(DIN)

Size	Dn	Rd	A	E	F
DN25	25	Rd58x1/6"	140	50	146
DN32	31	Rd65x1/6"	156	64	185
DN40	37	Rd78x1/6"	172	68	185
DN50	49	Rd95x1/6"	182	95	243
DN65	66	Rd110x1/4"	196	104	243
DN80	81	Rd130x1/4"	256	122	273
DN100	100	Rd160x1/4"	286	173	273



三通螺纹球阀 (SMS) Three-way threaded ball valve(SMS)

Size	Dn	Rd	A	E	F
1"	22.4	Rd40x1/6"	140	64	185
1 1/4"	28.8	Rd48x1/6"	156	64	185
1 1/2"	35.1	Rd60x1/6"	165	68	185
2"	47.8	Rd70x1/6"	182	73	205
2 1/2"	59.5	Rd85x1/6"	196	95	243
3"	72.2	Rd98x1/6"	225	104	243
4"	97.6	Rd125x1/4"	286	173	273



卫生级蝶型球阀

Sanitary Butterfly Ball Valve

应用 Applications

QF7蝶式球阀是一种装卸快捷、清洗方便的阀门，是卫生级行业处理黏性或颗粒物介质的最佳选择。主要应用于食品、饮料加工、以及制药和化学工业等领域。

QF7 butterfly ball valve is a valve with quick loading and unloading and easy cleaning. It is the best choice for handling viscous or particulate media in the sanitary industry. Mainly used in food, beverage processing, and pharmaceutical and chemical industries.

技术参数 Technique Parameter

可提供EN 10204 3.1B证书。

采用进口密封材料，所有密封材质均符合FDA 177.2600

工作温度: -20~+135°C(EPDM/PTFE)

灭菌温度: 150°C(max.20min)

工作压力: 1.0Mpa(10bar)

介质: 水、饮料、乳品、药剂等

连接方式: 3A/DIN/SMS/ISO(焊接.快装.螺纹.法兰)

EN 10204 3.1B certificate available.

Using imported sealing materials, all sealing materials comply with FDA 177.2600

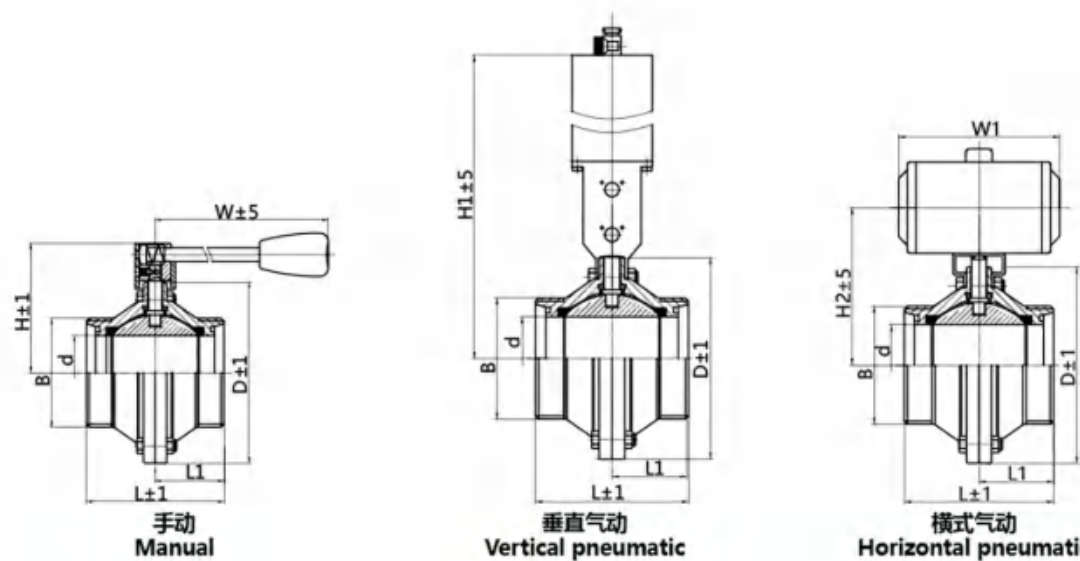
Working temperature: -20~+135°C(EPDM/PTFE)

Sterilization temperature: 150°C(max.20min)

Working pressure: 1.0Mpa(10bar)

Medium: water, beverages, dairy products, pharmaceuticals, etc.

Connection method: 3A/DIN/SMS/ISO (welding. Quick installation. Thread. Flange)



技术参数 Technique Parameter		
金属材料 Material	与产品接触的部件 Contact product parts	304L/316L(1.4307/1.4404) 锻造 304L/316L(1.4307/1.4404) Forged
	不与产品接触的部件 Non-contact product parts	304(1.4301)
	可提供EN 10204 3.1B证书 Provide EN 10204 3.1B certificate	
密封材质 Seal material	标配 Standard	PTFE/EPDM
	选配 Option	FPM/PTFE, HNBR/PTFE, SILICONE/PTFE
	采用进口密封材料，所有密封材质均符合FDA 177.2600 All seal materil meet FDA177.2600	
温度 Temperature	连续工作温度 Running working temperature	-20~+135°C(EPDM/PTFE)
	灭菌温度 Sterilization temperature	150°C(max20min)
压力 Pressure	工作压力 Working pressure	10bar
表面处理 Surface treatment	内表面处理 Internal surface	Ra≤0.8μm
	外表面处理 External surface	1.6μm
连接 Connection	连接标准 Connection standard	焊接端: DIN 11850 系列2 Welded end: DIN 11850 series2
		焊接端: Inch管径标准 Welded end: INCH pipe standard
	连接方式: 焊接.螺纹.快装.法兰等 Connection method: welding, thread, clamp, flange	

螺纹蝶式 Threaded butterfly										
DN	d	D	L1	L	H	H1	H2	W	W1	B
DN25	26	90	40	80	70	230	160	120.5	AT63	Rd52×1/6"
DN40	38	100	50	100	76	235	180	120.5	AT75	Rd65×1/6"
DN50	50	116	52.5	105	95	270	195	156.3	AT83	Rd78×1/6"
DN65	66	142	62.5	125	108	-	220	156.3	AT92	Rd95×1/6"
DN80	81	172	70	140	125	-	260	220	AT105	Rd110×1/4"
DN100	100	200	85	170	155	-	300	220	AT125	Rd130×1/4"

卫生级蝶型球阀 Sanitary Butterfly Ball Valve

应用 Applications

该类型阀门系列是一款自动或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、饮料加工, 以及制药和化学工业管道系统内调节、控制介质流量的一类阀门。

This type of valve series is an automatic or manually operated butterfly ball valve series, which is widely used in food and beverage processing, as well as in pharmaceutical and chemical industry pipeline systems because of its ability to handle viscous or particulate-containing media. A type of valve that controls the flow of a medium.

工作原理 Work Principle

该类型阀门既可以通过一个电动执行器或一个气动执行器进行远程遥控操作, 也可以通过一个手柄进行人为操控。

电动执行器或气动执行器是将一个活塞的轴向运动转换为阀门轴的90°旋转, 实现开启或关闭, 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位子上, 达到控制介质流量的目的。

拉杆式手动操作手柄通过4个多功能定位, 将阀门机械式锁定在其开启或关闭的4个位子上, 也达到控制介质流量的目的。

This type of valve can be remotely operated by an electric actuator or a pneumatic actuator, or manually controlled by a handle.

Electric actuators or pneumatic actuators convert the axial motion of a piston into 90° rotation of the valve shaft to realize opening or closing, and to control and open/close the fluid in the pipeline. There are three standard pneumatic actuator devices: normally open (NO) type, normally closed (NC) type, air/air (A/A) type.

The multi-position handle for manual operation of duckbill can mechanically lock the valve in its 12-position open or closed position by adjusting the position of 15°, so as to achieve the purpose of controlling the flow of the medium:

The lever-type manual operation handle mechanically locks the valve in its open or closed four positions through four multi-function positioning, and also achieves the purpose of controlling the flow of the medium.



材料 Material

钢制部件: SUS304, SUS316L

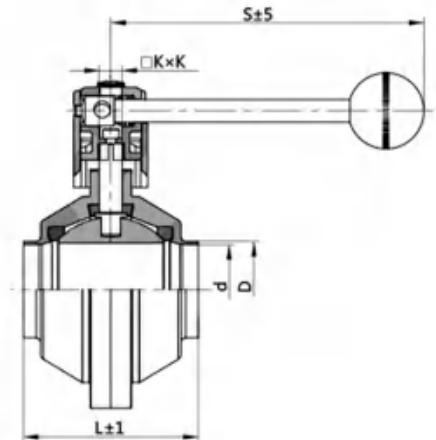
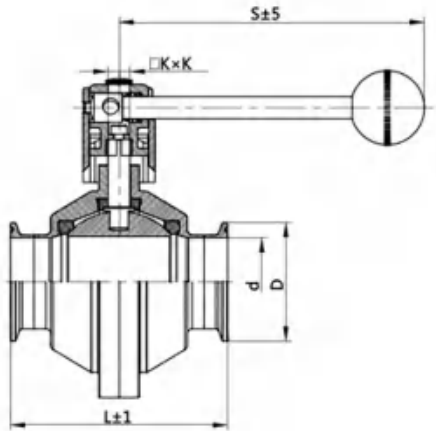
密封件: PTFE, PPL

Steel parts: SUS304, SUS316L

Seal: PTFE, PPL

Size	d	D	L	S
3/4"	16	50.5	80	115
1"	22.1	50.5	80	115
1 1/4"	28.6	50.5	80	115
1 1/2"	34.9	50.5	100	128
2"	47.5	64	105	128
2 1/2"	59.5	77.5	125	160
3"	72.2	91	134	160
3 1/2"	84.9	106	140	185
4"	97.6	119	170	185

Size	d	D	L	S
1"	22.1	25.4	80	115
1 1/4"	28.6	31.8	80	115
1 1/2"	34.9	38.1	100	128
2"	47.6	50.8	105	128
2 1/2"	59.5	63.5	125	160
3"	72.2	76.2	134	160
3 1/2"	84.9	88.9	140	185
4"	97.6	101.6	170	185



卫生级无滞留球阀 Sanitary Non-retention Ball Valve

应用 Application

无滞留球阀为全包式球座设计, 解决了球阀液体滞留阀腔内的问题, 该球阀适用于生物制药工程。

The non-retention ball valve is an all-inclusive ball seat design, which solves the problem of liquid retention in the valve cavity of the ball valve. The ball valve is suitable for biopharmaceutical engineering.

设计特点 Design Features

- 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
- 垫圈根据FDA177.2600
- 连接卡箍焊接螺纹, DIN.SMS.ISO.IDF.BPE.RJT
- 无论是何种连接方式, 阀体都可进行更换, 而不会改变阀门的总长度
- Body combination clamp connection
- Without professional tools to remove the valve
- Operating torque is small
- Washer according to FDA177.2600
- Connecting clamp welding thread, DIN.SMS.ISO.IDF.BPE.RJT
- No matter what kind of connection, the valve can be replaced without changing the total length of the valve

产品特征 Product Features

1. 阀杆防飞出设计
2. 阀体与阀盖连接带定位台阶设计
3. 全流通
4. 无滞留设计
5. 阀杆密封填料自补偿装置
6. 挂锁装置
1. Valve stem anti-flying design
2. The connection between valve body and bonnet with positioning stage design
3. Circulation
4. No retention design
5. Stem seal packing with compensating device
6. Padlock device



工作原理 Working Principle

通过90°旋转手柄, 从而360°带动有贯通腔的精确制造的球体, 以开启或关闭阀门, 达到控制介质流量。

By rotating the handle 90°, a precisely manufactured sphere with a through cavity is driven 360° to open or close the valve to control the flow of the medium.

材料 Material

钢制部件: SUS304, SUS316L
密封件: EPDM, PTFE
Steel parts: SUS304, SUS316L
Seal: EPDM, PTFE

标准设计 Standard Design

有各标准的阀门系列可以向客户提供, 即用于DIN标准系列, 3A标准系列, SMS标准系列, ISO/IDF标准系列, BS/RJT标准系列, ASME/BPE等标准系列。

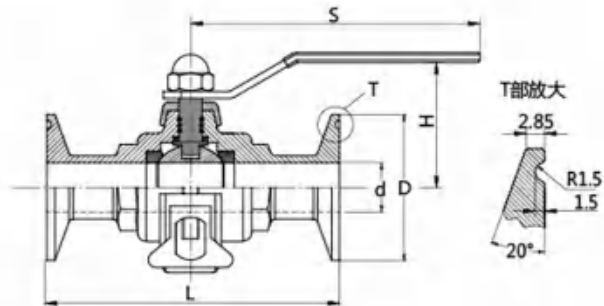
球阀的组成部件一般包括: 一个手柄、一个带有贯通腔的球体、阀体、阀门轴芯以及轴密封圈。

现有的球阀系列规格有: 焊接式球阀、卡箍式球阀、螺纹式球阀等系列球阀。

Various standard valve series can be provided to customers, namely for DIN standard series, 3A standard series, SMS standard series, ISO/IDF standard series, BS/RJT standard series, ASME/BPE and other standard series.

The components of the ball valve generally include: a handle, a ball with a through cavity, a valve body, a valve shaft and a shaft sealing ring.

The existing ball valve series specifications include: welded ball valve, clamp type ball valve, threaded ball valve and other series of ball valves.



技术参数 Technique Parameter

采用进口密封材料, 所有密封材质均符合FDA 177.2600
工作温度: -20~+135°C(EPDM/PTFE)
灭菌温度: 150°C(max.20min)
工作压力: 1.6Mpa(16bar)
介质: 水、饮料、乳品、药剂等
连接方式: 3A/DIN/SMS/ISO(焊接快装、螺纹、法兰)
All seal material meet FDA177.2600
working temperature: -20~+135°C(EPDM/PTFE)
Sterilization temperature: 150°C(max.20min)
Working pressure: 1.6Mpa(16bar)
Medium: Water, drink, Milk, pharmacy etc
connection method: 3A/DIN/SMS/ISO(welding, clamp, thread, flange)
直通无滞留球阀扭矩表, 单位 (N.M)
Operating Torque(N.M)

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	164	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

Size	1"-3/4"	DN25-1"	DN32-1 1/4"	DN40-1.5"	DN50-2"	2.5"-DN65	3"	DN80	4"-DN100
扭矩 Torque	6	10	12	14	20	40	75	90	110

注意: 选择执行器建议增加20%安全余量
Note: the actuator proposed to increase the safety margin of 20%

卫生级三片式全包球阀 Sanitary Three-piece All-Inclusive Ball Valve

应用 Application

三片式全包球阀是一款方便安装、拆卸及清洗的卫生型球阀, 用于气体、液体等物料输送, 这种阀门的应用范围包括食品、饮料以及制药和化工业等领域。全通径及全包密封、阀门设计, 极度减小流体阻力和残留, 因此使得此阀门用于处理真空设备或黏性流体的最佳选择。

The three-piece all-inclusive ball valve is a hygienic ball valve that is easy to install, disassemble and clean. It is used for gas, liquid and other materials. The valve range includes food, beverage and pharmaceutical and chemical industries. Full-bore and all-inclusive seals and valve design minimize fluid resistance and residue, making this valve the best choice for handling vacuum equipment or viscous fluids.

技术特点 Technical Features

全包式球阀设计、无滞留、高洁净, 满足CIP、SIP杀菌和清洗要求、耐高温150°C, 压力25bar, 自动补偿密封设计, 具有扭矩小, 寿命长等特点, 正常开关10万次以上, 可配置各种执行结构, 如电动头、卧式气动头、不锈钢立体气动, 钥匙手动手柄, 还可以加装控制单元、定位器、位置传感器等, 也可装自动控制系统。

All-inclusive ball valve design, no retention, high cleanliness, meet CIP, SIP sterilization and cleaning requirements, high temperature resistance 150 °C, pressure 25 bar, automatic compensation sealing design, with small torque, long life and other characteristics, normal switching more than 100,000 times, Various execution structures can be configured, such as electric head, horizontal pneumatic head, stainless steel three-dimensional pneumatic, key manual handle, control unit, positioner, position sensor, etc. can also be installed, and automatic control system can also be installed.

表面处理 Surface Treatment

所有的表面CNC, 0.8rn, 达到RA0.4cm, 电抛光可达到0.25cm。
All surfaces are CNC, 0.8rn, reach RA 0.4cm, and electropolishing can reach 0.25cm.

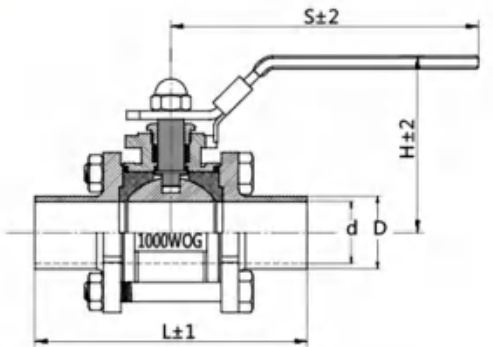


焊接式三片式全包球阀
Three piece ball valve full welded

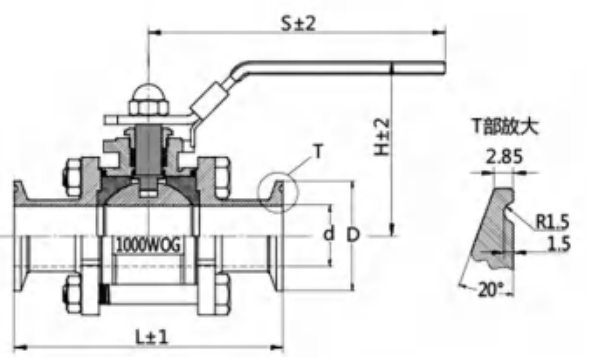


快装三片式全包球阀
Clamp three full-package ball valve

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



Size	d	D	L	H	S
1/2 "	9.4	25.5	90	60	132
3/4 "	16	50.5	104	64.5	132
1 "	22.1	50.5	115	69	165
1 1/4 "	28.5	50.5	125	75	170
1 1/2 "	35	50.5	140	89	194
2 "	47.5	64	156	97	194
2 1/2 "	59.5	77.5	198	127	252
3 "	72.2	91	230	135	252
3 1/2 "	52	106	230	143	250
4 "	97.6	119	242	159	332
5 "	125	145	300	210	350
6 "	150	183	350	249	430



三片式气动全包球阀 Three-piece Pneumatic All-Inclusive Ball Valve

应用 Application

三片式全包球阀是一款方便安装、拆卸及清洗的卫生型球阀,用于气体、液体等物料输送,这种阀门的应用范围包括食品、饮料以及制药和化工等领域。全通径及全包密封、阀门设计,极度减小流体阻力和残留,因此使得此阀门用于处理真空设备或黏性流体的最佳选择。

The three-piece all-inclusive ball valve is a hygienic ball valve that is easy to install, disassemble and clean. It is used for gas, liquid and other materials. The valve range includes food, beverage and pharmaceutical and chemical industries. Full-bore and all-inclusive seals and valve design minimize fluid resistance and residue, making this valve the best choice for handling vacuum equipment or viscous fluids.

标准设计 Standard Design

有各标准的阀门系列可以向客户提供,即用于DIN标准系列,3A标准系列,SMS标准系列,ISO/IDF标准系列,BS/RJT标准系列,ASME/BPE等标准系列。

球阀的组成部件一般包括:一个带有贯通腔的球体、阀体、阀门轴芯以及轴密封圈。

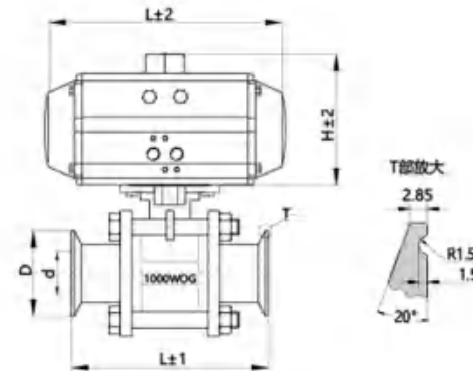
现有的球阀系列规格有:焊接式球阀、卡箍式球阀、螺纹式球阀等系列球阀。

Various standard valve series can be provided to customers, namely for DIN standard series, 3A standard series, SMS standard series, ISO/IDF standard series, BS/RJT standard series, ASME/BPE and other standard series.

The components of the ball valve generally include: a ball with a through cavity, the valve body, the valve shaft and the shaft sealing ring.

The existing ball valve series specifications include: welded ball valve, clamp type ball valve, threaded ball valve and other series of ball valves.

Size	d	D	L	气缸型号 Cylinder model
1/2"	9.4	25.5	91	AT40
3/4"	16	50.5	104	AT50
1"	22.1	50.5	115	AT63
1 1/4"	28.5	50.5	125	AT63
1 1/2"	34.9	50.5	140	AT75
2"	47.5	64	156	AT83
2 1/2"	59.5	77.5	198	AT92
3"	72.2	91	230	AT125
4"	97.6	119	242	AT140



气动执行器可安装在二通或者三通的符合ISO5211标准的低平台和高平台球阀上

(低平台球阀可加附支架安装执行器)

材质: 316 ASTM-CF8M A351

阀座: PTFE

Pneumatic actuators can be installed on 2-way or 3-way low platform and high platform ball valves according to ISO5211 standard

(The low platform ball valve can be attached to the bracket to install the actuator)

Material: 316 ASTM-CF8M A351

Seat: PTFE

手动快装三通球阀 Manual Quick Release Three-way Ball Valve

标准设计 Standard Design

三片式全包球阀的启闭件为一个球体。利用球体绕阀杆的轴线旋转,实现开启、关闭的目的。三片式快装全包球阀在管道上主要用于切断介质的流通。

三片式全包球阀的主要特点是密封可靠,结构紧凑,易于操作和维修。此外,卫生球阀的流体阻力最小,其阻力系数与同长度的管段相等。

三片式卡箍球阀结构简单、体积小、重量轻。密封性好,在真空系统中也已广泛使用。与管道连接后,请用规定的扭矩交叉锁紧法

The opening and closing part of the three-piece all-inclusive ball valve is a sphere. Use the ball to rotate around the axis of the valve stem to achieve the purpose of opening and closing. The three-piece quick-loading all-inclusive ball valve is mainly used to cut off the circulation of the medium on the pipeline.

The main features of the three-piece all-inclusive ball valve are reliable sealing, compact structure, and easy operation and maintenance. In addition, the fluid resistance of the sanitary ball valve is the smallest, and its resistance coefficient is equal to that of the pipe section of the same length.

The three-piece clamp ball valve is simple in structure, small in size and light in weight. It has good sealing performance and has been widely used in vacuum systems. After connecting with the pipe, please use the specified torque cross-locking method

技术规范 Specifications

材质: SUS304,SS316

规格: DIN标准: DN15-DN100; ISO标准: 019(0.75s)-中108(4.25s)

工作原理: 卫生卡箍式全包球阀是利用球体绕阀杆的轴线旋转,实现开启、关闭的目的。卫生级卡箍式快装全包球阀在管道上主要用于切断介质的流通。

连接形式: 螺纹、法兰、焊接、快装等

应用: 专用于专用于各种高腐蚀介质等工业领域。

Material: SUS304, SS316

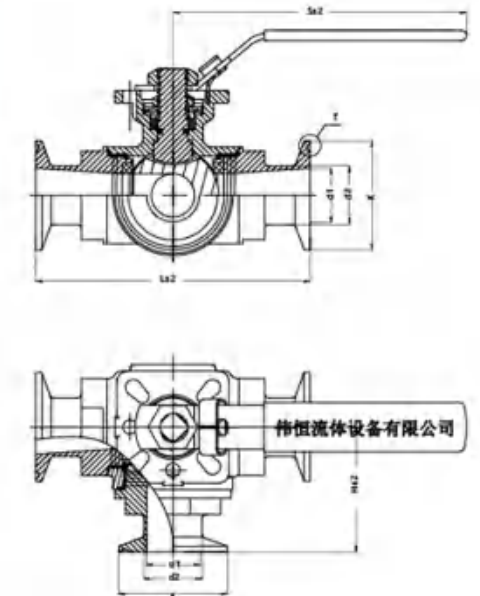
Specification: DIN standard: dn15-dn100; ISO standard: 019(0.75s)-medium 108 (4.25s)

Working principle: health clamp-type ball valve is the use of the ball around the axis of the valve stem rotation, to achieve the purpose of opening and closing. Sanitary clamp-on ball valve is mainly used to cut off the circulation of medium in the pipeline.

Connection form: thread, flange, welding, fast loading, etc

Application: used in all kinds of highly corrosive media and other industrial fields.

Size	d1	d2	K	L	H2	S
3/4"	15.9	19.1	25.4	105	53	128
1"	22.2	25.4	50.5	115	58	165
1 1/4"	28.6	31.8	50.5	125	63	165
1 1/2"	34.9	38.1	50.5	140	70	175
2"	50.8	47.6	64	160	80	215
2 1/2"	63.5	59.5	77.5	175	87.5	215
3"	76.2	72.2	91	210	105	280
3 1/3"	85	81	106	220	110	280
4"	101.6	97.6	119	240	125	295



卫生级法兰球阀 Sanitary Flange Ball Valve

工作原理应用 Working Principle Application

法兰球阀 (Q41F) 启闭件 (球体) 由阀杆带动并绕球体轴线作旋转运动的阀门, 亦可用于流体的调节与控制, 球阀在管路中主要用来做切断, 它只要平稳旋转的操作和很小的转动力矩就能严密关闭, 此阀按驱动方式分为手动球阀、气动球阀、电动球阀、电动比例调节阀。被广泛应用于: 食品、饮料、化工等领域。

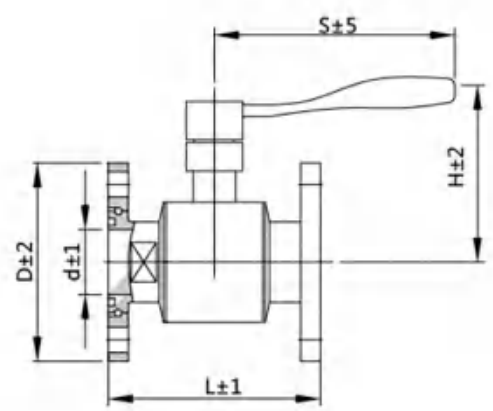
Flanged ball valve (Q41F) is a valve whose opening and closing member (ball) is driven by the valve stem and rotates around the axis of the ball. It can also be used for fluid regulation and control. The ball valve is mainly used for cutting off in the pipeline, as long as it rotates smoothly The valve can be tightly closed by the operation and small turning torque. The valve is divided into manual ball valve, pneumatic ball valve, electric ball valve and electric proportional control valve according to the driving mode. It is widely used in: food, beverage, chemical industry and other fields.

优点 Advantage

法兰连接改善了以往工业阀的外观, 采用机械研磨、表面处理、达到内外净面, 互补了食品级与工业级各方面的优点, 真正解决各行业跨度设备经验的集合。

Flange connection improves the appearance of previous industrial valves, adopts mechanical grinding, surface treatment, and achieves internal and external clean surface, complements the advantages of food grade and industrial grade, and truly solves the collection of equipment experience in various industries.

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	190	128	220
DN80	80	200	210	146	240
DN100	100	220	240	190	240



卫生级三片式电动全包球阀 Sanitary Three-piece Electric All-Inclusive Ball Valve

应用 Applications

精小型电动执行器, 电压有: AC24V、AC110V、AC220V、AC380V、DC24V。

智能调节型电动执行器, 输入/输出信号有: 4~20mADC, 0~100VDC, 1~5VDC。

Mini type Electric Actuator, suitable for voltages at: AC24V, AC110V, AC220V, AC380V, DC24V。

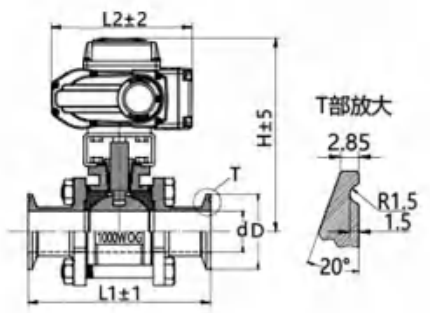
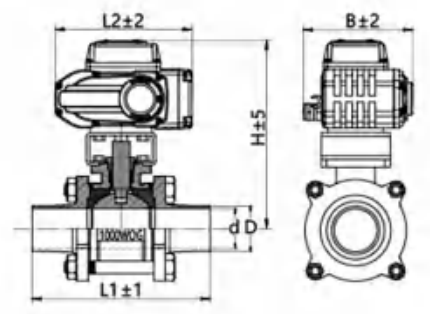
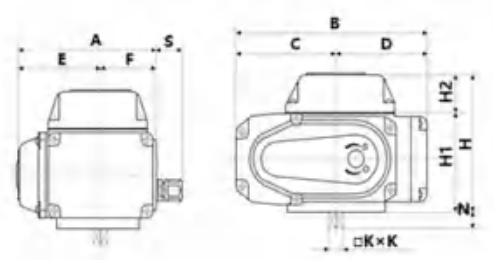
Intelligent Regulating Electric Actuator, input/output signal: 4~20mADC, 0~100VDC, 1~5VDC。

电动执行器 Electric actuator

Size	A	B	C	D	E	F	H	H1	H2	□K×K	N	S
HL-05	115	162	82.5	79.5	64	51	103	75	28	12×12	12	20
HL-10	122	208	98	110	68	54	124			15×15	9	22
HL-25/50	148	258	124	134	86	62	148			23×23	22	22
HL-100/200	156	280	128	152	95	61	159			30×30	25	22

Size	d	D	L1	L2	B	H	执行器型号 Actuator type
1/2"	9.4	12.7	90	178	135	200	FY-05
3/4"	15.9	19.1	104	178	135	205	FY-05
1"	22.1	25.4	115	178	135	206	FY-05
1 1/4"	28.6	31.8	125	178	135	216	FY-05
1 1/2"	34.9	38.1	140	178	135	218	FY-05
2"	47.6	50.8	156	178	135	227	FY-05
2 1/2"	59.5	63.5	198	210	155	285	FY-10
3"	72.2	76.2	230	309	184	330	FY-30
4"	97.6	101.6	242	309	184	343	FY-30

Size	d	D	L1	L2	B	H	执行器型号 Actuator type
1/2"	9.4	25.5	90	178	135	200	FY-05
3/4"	16	50.5	104	178	135	205	FY-05
1"	22	50.5	115	178	135	206	FY-05
1 1/4"	28	50.5	125	178	135	216	FY-05
1 1/2"	35	50.5	140	178	135	218	FY-05
2"	47.6	64	156	178	135	227	FY-05
2 1/2"	60	77.5	198	210	155	285	FY-10
3"	72.2	91	230	309	184	330	FY-30
4"	98	119	242	309	184	343	FY-30
5"	125	145	300	309	184	343	FY-30



方形三通球阀

Square Three-way Ball Valve

应用 Applications

该类型球阀系列是一款卫生型的用于物料传送控制的一类阀门系列。广泛应用于食品、饮料加工、以及制药和化学工业领域。

灭菌温度: 150°C (Max20min)

内表面处理: Ra≥0.4-0.8um

外表面处理: Ra≥0.4-1.6um

焊接端管径: 焊接口: DIN11850-2 与11850-1/SMS/3A/ISO等系列

连接方式: 焊接, 快装, 外螺纹, 内螺纹, 法兰等

材料: 不锈钢304,316L

密封件: PTFE或PPL

维修方便, 球阀结构简单, 密封圈一般都是活动的, 拆卸更换都比较方便。

This type of ball valves series is a kind of sanitary valve which used to control the sanitary transfer.It is widely used in food,beverage processing, pharmaceutical and chemical industry area.

Sterilization temperature: 150°C (Max20min)

Inside surface treatment: Ra≥0.4-0.8um

Surface treatment: Ra≥0.4-1.6um

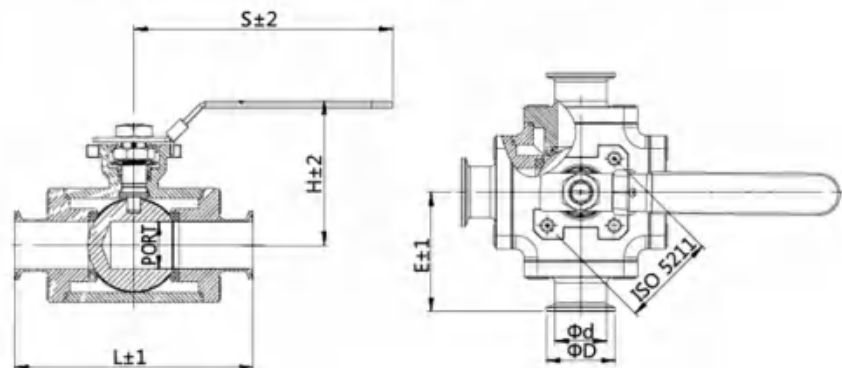
The diameter welding: Welding connection: DIN11850-2 & 11850-1/ SMS/3A/ISO etc

Connection Mode: welding,clamp ,male and female,flange,etc.

Material : Stainless Steel 304,316L

Seal: PTFE,PPL

Easy maintenance, simple structure of the ball valve, sealing ring is generally mobile, disassembly and replacement are more convenient.



三通球阀
Three-way ball valve

Size	DN	L	PORT	d	D	E	H	S	ISO5211	
3/4"	DN20	110	16	19.05	25.2	77.9	98.0	218.0	F05	F05
1"	DN25	130	22	25.4	50.5	84.4	102.0	218.0	F05	F05
1 1/4"	DN32	130	28	31.8	50.5	98.95	118.5	135.0	F05	F07
1 1/2"	DN40	175	35	38.1	50.5	110.7	127.0	135.0	F05	F07
2"	DN50	220	47.6	50.8	64.0	122.3	139.0	252.0	F07	F10
2 1/2"	DN65	240	60	63.5	77.5	135	165.7	252.0	F07	F10
3"	DN80	290	72.6	76.2	91.0	146.1	170.0	252.0	F07	F10
4"	DN100	330	97.6	101.6	119.0	164.0	193.0	450	F07	F10



气动方形三通球阀

Pneumatic Square Three-way Ball Valve

应用 Applications

该阀卫生设计, 在食品加工、饮料、果汁、酿酒、生物制药等领域有着广泛的应用。三通球阀, 具有非常灵活的组合, 例如, L型和T型可在现场更换, 进出口方向可任意组合变化都保证零死角、零滞留。

The valve has a hygienic design and is widely used in food processing, beverages, juices, winemaking, biopharmaceuticals and other fields. The three-way ball valve has a very flexible combination. For example, the L-type and T-type can be replaced on site, and the inlet and outlet directions can be changed in any combination to ensure zero dead angle and zero retention.

技术规范 Specifications

规格: 1"-4", DN25-DN100

材质: 1.4301/304, 316L/1.4404

垫圈: PTFE,TFM(FDA 177.1550)

最高温度: -20°C到150°C (标准) -30°C到200°C (选项)

压力范围: 10-30bar (取决于密封材质和温度)

操作方式: 手动、气动、电动

表面处理: 内表面Ra0.6um,外部喷砂

认证: PED/97/23/EC,3A, FDA

自控配置: 过程控制器/阀门定位器, 0/4....20mA, 0 5/10V (详见控制器目录) (选项)

阀门顶部控制单元, AS-1总线通讯, 接线端子连接 (选项) 位置传感器PNP NPN (选项)

Size:1"-4",DN25-DN100

Material:1.4301/304,316L/1.4404

Gaskets:PTFE/TFM(FDA 177.1550)

Temperature:-20°C to 150°C (Standard)
-30°C-200°C(Option)

Pressure:10-3-bar(Depending on seal material and temperature)

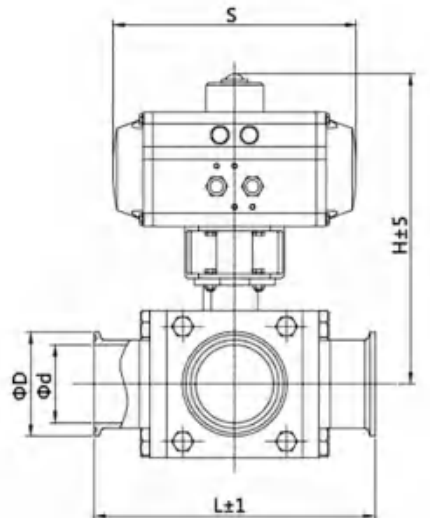
Operating modes:manual,pneumatic,electric

Surface finishing:Internal surface Ra0.6um,external surface sand blast.

Certificate:PED/97/23/EC,3A,FDA

Control:process controller, valve positioning(see controller directory) C-TOP control unit.AS-1 Device Net bus communication terminal connection(options),position sensor PNP NPN(options)

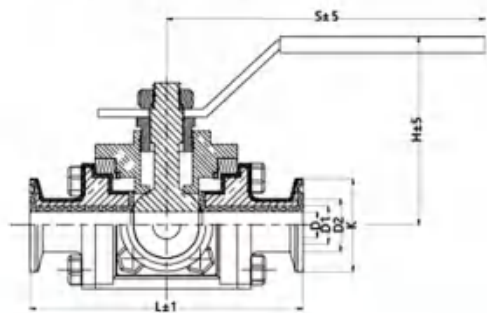
Size	DN	L	d	D	H	S
1/2"	DN15	110	12.7	25.2	120	AT52
3/4"	DN20	110	19.05	25.2	134	AT63
1"	DN25	130	25.4	50.5	155	AT63
1 1/4"	DN32	130	31.8	50.5	160	AT75
1 1/2"	DN40	175	38.1	50.5	180	AT83
2"	DN50	220	50.8	64.0	201	AT92
2 1/2"	DN65	240	63.5	77.5	211	AT105
3"	DN80	290	76.2	91.0	249	AT125
4"	DN100	330	101.6	119.0	309	AT140



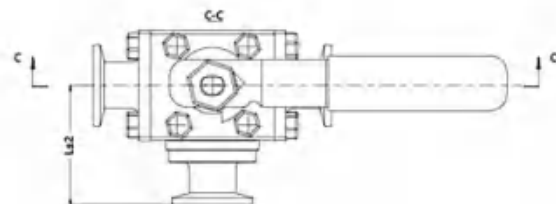
衬氟快装球阀 Fluorine-lined Quick-load Ball Valve

产品特点 Features

- 3mm以上阀体内衬PTFE或PFA, 高抗渗透性。楔形槽锁定的防真空设计。几乎透明, 最佳的质量保证
- 承压阀体材质可供选择
- 永久的阀体法兰密封, 即使在最频繁的热循环条件下也有效, 阀体的密封处有足够的内衬厚度, 迷宫式密封使连接件处的接触面积最大化, 杯状及锥壮的结构的阀体能进行适当的自行定位。
- 全通径球提供与管道相等的高cv值。
- 加强的PTFE阀座为球阀提供了永久的弹性承载, 保证密封气密性。
- 防静电: 由于一体式阀杆与阀体构造及弹性的电势相等, 从而消除了任何静电积累。
- 一体式的球/阀杆设计, 减少替在的阀球和阀杆的失效, 无滞留, 理想的
- The valve body above 3mm is lined with PTFE or PFA, with high resistance to permeation. Anti-vacuum design with wedge groove locking. Almost transparent, best quality assurance
- Pressure-retaining valve body materials are available
- Permanent body flange seal, effective even under the most frequent thermal cycling conditions, adequate lining thickness at the connector, strong cup The valve body with the structure of the cone and the strong structure can be properly positioned by itself.
- Full bore balls provide high cv values equivalent to pipes.
- The reinforced PTFE seat provides a permanent elastic load for the valve ball to ensure hermetic sealing.
- Anti-Static: Eliminates any static build-up due to the one-piece stem and body construction and elastic potential equalization.
- One-piece ball/stem design reduces the failure of replacement balls and stems, no stagnation, ideal



Size	D	D1	D2	K	L1	L	H	S
1/2"	10	16	19	34	50	100	76	135
3/4"	16	22	25.4	50.5	62.5	125	92	135
1"	22	28	31.8	50.5	75	150	102	150
1 1/2"	29	35	38.1	50.5	85	170	115	185
2"	42	48	51	63.9	100	200	130	220



衬氟三通球阀 Fluorine-lined Three-way Ball Valve

技术范围 Technical Scope

工作温度: 0°C~150°C

工作压力: 真空~1.6Mpa(20°C)

应用领域: 针对磨蚀性及危险性介质的切断及自控阀, 用于不锈钢无法有效抵抗其腐蚀性的场合, 替代特殊材料的金属阀, 在要求大流量场合, 具有更低的扭矩。减少维修, 降低维修成本。

适用流体: 可输送极强的化学腐蚀性介质、可耐高温、耐真空、可防静电

应用领域: 用于食品卫生、医药制药、化工化学、生物、锂电、半导体工程等行业

符合标准: 符合FDA和USF认证

Working temperature: 0°C~150°C

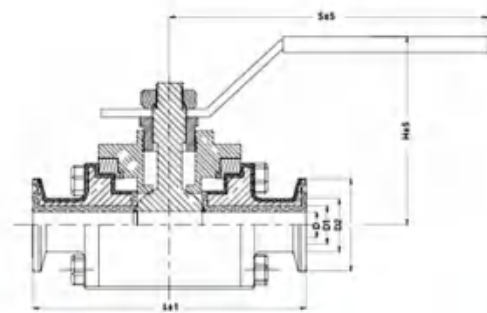
Working pressure: vacuum~1.6Mpa(20°C)

Application field: For the cutting off and automatic control of abrasive and dangerous media, it is used in the occasions where stainless steel cannot effectively resist its corrosiveness, and it can replace metal valves of special materials, and has lower torque in occasions requiring large flow. Reduce maintenance and reduce maintenance costs.

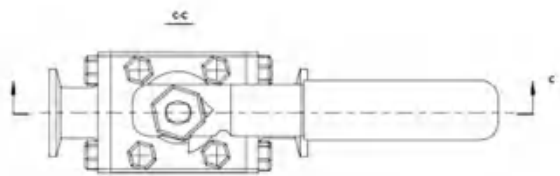
Applicable fluid: can transport extremely strong chemically corrosive medium, can withstand high temperature, vacuum resistance, and can prevent static electricity

Application areas: used in food hygiene, pharmaceuticals, chemical chemistry, biology, lithium batteries, semiconductor engineering and other industries

Standards Compliant: FDA and USF compliant



Size	D	D1	D2	K	L	H	S
1/2"	10	16	19	34	100	76	135
3/4"	16	22	25.4	50.5	120	92	135
1"	22	28	31.8	50.5	140	102	150
1 1/2"	29	35	38.1	50.5	160	115	185
2"	42	48	51	63.9	190	130	220



衬氟快装弯头 Fluorine-lined Quick Fitting Elbow

应用 Application

快装卡盘符合3A标准, 管体角度为90度, 采用食品级FEP颗粒通过高温模压烧结注塑工艺而成。表面平整光滑, 符合卫生级结构, 两端卡盘采用独特的翻边工艺, 使其可与不锈钢材料紧密贴合在一起, 在长期使用过程中不会发生卷边的情况。

另有以下标准和材料可选:

- 1、卡盘可提供3A、BPE、SMS、DIN、ISO等多个标准;
- 2、不锈钢可选用SS304, SS316L等材料;
- 3、PTFE:药用级, 满足FDA要求厂家:日本大金, 3M公司
- 4、可提供防静电PFA/FEP/PTFE衬料。

The quick-loading chuck conforms to the 3A standard, and the angle of the tube body is 90 degrees. The surface is flat and smooth, conforming to the sanitary structure, and the chucks at both ends adopt a unique flanging process, so that it can be closely attached to the stainless steel material, and there will be no curling during long-term use.

The following standard and village materials are also available:

1. The chuck can provide 3A, BPE, SMS, D, N, ISO and other standards;
2. Stainless steel can be selected from SS304, SS316L and other materials;
3. PTFE: pharmaceutical grade, meeting FDA requirements Manufacturer: Daikin, 3M Company
4. Electrostatic PFA/FEP/PTFE linings can be provided.

技术范围 Technical Scope

温度范围: 0°C~150°C

工作压力: 真空~16Mpa(20°C)

适用流体: 可输送极强的化学腐蚀性介质、可耐高温、耐真空、可防静电。

应用领域: 用于食品卫生、医药制药、化工化学、生物、锂电, 半导体工程等行业
符合标准: 符合FDA和USP认证。

Temperature range: 0°C~150°C

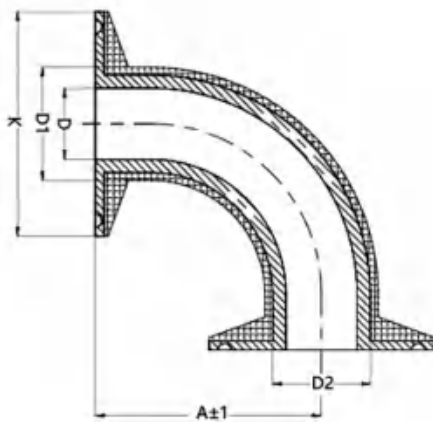
Working pressure: vacuum~16Mpa(20°C)

Applicable fluid: can transport extremely strong chemical corrosive medium, can withstand high temperature, vacuum, and anti-static.

Application areas: used in food hygiene, pharmaceuticals, chemical chemistry, biology, lithium batteries, semiconductor engineering and other industries

Standards Compliant: Compliant with FDA and USP certification.

Size	A	D	D1	D2	K
1/2"	36	10	19.1	16	34
3/4"	50.8	16	25.4	22	50.5
1"	66.5	22	31.8	28.5	50.5
1 1/2"	69.2	29	38.1	34.8	50.5
2"	88.2	42	51	48	63.9



衬氟快装三通 Fluorine lining Quick Packing Tee

应用 Applications

快装卡盘符合3A标准, 采用食品级FEP颗粒通过高温模压烧结注塑等工艺而成。表面平整光滑, 内壁光滑, Ra<0.4, 无毛刺、划痕、污物、脱落、凹陷等缺陷, 符合卫生级结构, 三端卡盘采用独特的翻边工艺, 使其可与不锈钢材料紧密贴合在一起, 在长期使用过程中不会发生卷边的情况, 温度范围为: 0°C~150°C。

另有以下标准和材料可选:

- 1、卡盘可提供3A、BPE、SMS、DIN、ISO等多个标准;
- 2、不锈钢可选用SS304, SS316L等材料;
- 3、可提供PFA颗粒或PTFE粉末模压而成;
- 4、可提供防静电PFA/FEP/PTFE衬料。

The quick-loading chuck conforms to the 3A standard, and is made of food-grade FEP particles through high temperature molding, sintering, and injection molding. The surface is smooth and smooth, the inner wall is smooth, Ra<0.4, no defects such as burrs, scratches, dirt, falling off, dents, etc., in line with the sanitary structure, the three-end chuck adopts a unique flanging process, so that it can be closely attached to the stainless steel material Taken together, there will be no curling during long-term use, and the temperature range is: 0°C~150°C.

The following standard and village materials are also available:

1. The chuck can provide 3A, BPE, SMS, D, N, ISO and other standards;
2. Stainless steel can be selected from SS304, SS316L and other materials;
3. PFA particles or PTFE powder can be provided by molding;
4. Electrostatic PFA/FEP/PTFE materials can be provided.

技术规范 Specifications

工作温度: 0°C~150°C

工作压力: 真空~1.6Mpa(20°C)

颜色选择: 透明色或黑色

适用流体: 可输送极强的化学腐蚀性介质、可耐高温、耐真空、可防静电

应用领域: 用于食品卫生、医药制药、化工化学、生物、锂电, 半导体工程等行业
符合标准: 符合FDA和USF认证

Working temperature: 0°C~150°C

Working pressure: vacuum~1.6Mpa(20°C)

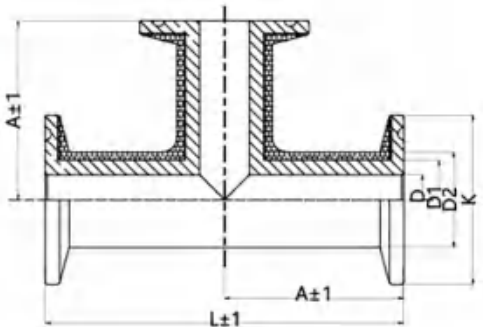
Color options: clear or black

Applicable fluid: can transport extremely strong chemical corrosive medium, can withstand high temperature, vacuum resistance, anti-static

Application areas: used in food hygiene, pharmaceuticals, chemical chemistry, biology, lithium batteries, semiconductor engineering and other industries

Standards Compliant: FDA and USF compliant

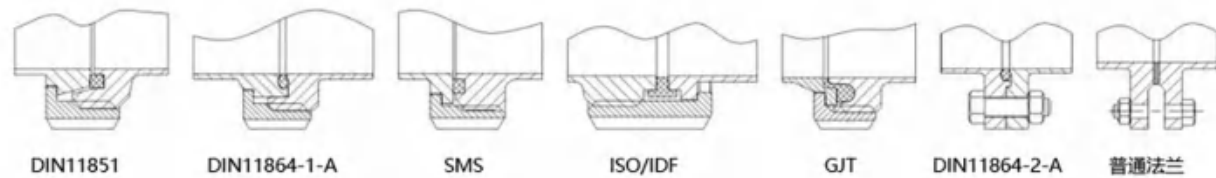
Size	D	D1	D2	A1	L	K	A
1/2"	10	16	19.1	36	72	34	36
3/4"	16	22	25.4	50.8	116	50.5	50.8
1"	22	28.5	31.8	66.5	133	50.5	66.5
1 1/2"	29	34.9	38.1	69.2	138.5	50.5	69.2
2"	42	48	51	88.2	176.5	64	88.2



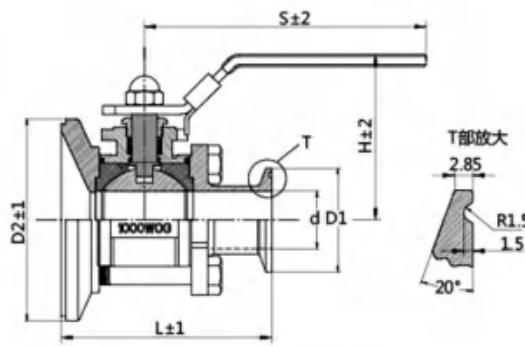
手动罐底全包球阀 Manual Tank Bottom All-Inclusive Ball Valve



各种进出口连接方式Connections



Size	d	D1	D2	L	H	S
1"	22	50.5	88	100	69	165
1 1/2"	35	50.5	118	125	89	194
2"	47.5	64	128	145	97	194
2 1/2"	60	77.5	165	170	127	252
3"	72.2	91	205	195	135	252
4"	98	119	230	210	159	332
5"	125	145	296	265	210	350



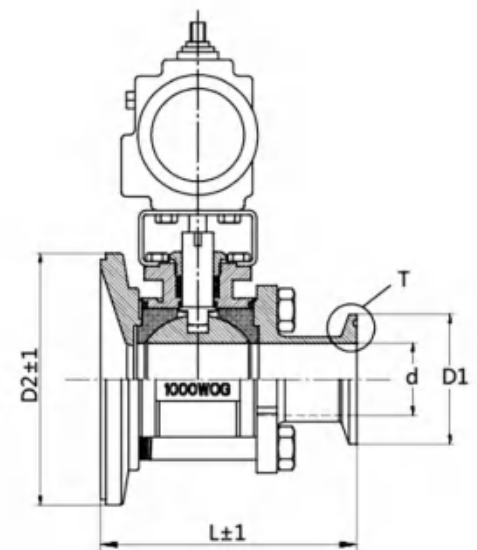
罐底三片式无滞留球阀
Tank bottom three-piece non-retention ball valve

气动罐底全包球阀 Pneumatic Tank Bottom All-Inclusive Ball Valve

应用 Applications

该球阀是一款专门设计应用于压力容器和储罐设备的排空和放料的罐底阀门，全包球座和密封自动补偿设计，因此具有压力高，耐高温，扭矩小，寿命长等特点，满足于CIP和SIP清洗和杀菌。非常适合应用于高洁净要求工艺系统中如，生物制药、食品饮料、乳制品、化工等领域。
可配置各种不同执行器，如电动、气动、手动可互换。

The ball valve is a specially designed applied to pressure vessels and equipment,including tank emptying and feeding of tank bottom valve,turnkey tee and sealing automatic compensation design,therefore,with the high pressure and high temperature resistant,torque,etc,the characteristics of long service life,meet with CIP and SIP cleaning and sterilization.Very suitable for application in high clean technology system such as biological pharmacy,food and beverage,dairy products,chemical and other fields.
Aconfigurable various actuators,such as electric,pneumatic, manual interchangeable.



Size	d	D1	D2	L	气缸型号 Cylinder model
1"	22	50.5	88	100	AT63
1 1/2"	35	50.5	118	125	AT75
2"	47.5	64	128	145	AT83
2 1/2"	60	77.5	165	170	AT92
3"	72.2	91	205	195	AT105
4"	98	119	230	210	AT140

高纯度球阀
High Purity Ball Valves

应用

- 惰性散装气体分布
- 用于气动应用的氮气
- 工艺真空排气
- 干燥、无油压缩空气系统
- S型溶剂，如异丙醇
- 可呼吸的空气

易扭矩手柄

重型长柄提供充足的杠杆作用，可打开或关闭阀门，防止流动的流体流动。

全流道设计

通过对阀门内部部件和连接管使用相同的通径，可以显著降低流体流动阻力，消除对接焊缝减少污染物口袋。

超高压清洗、包装和测试

最终清洗使用18mb DI水和来自低温源的高纯度氮。每个阀门都在阀座和阀体密封的内部进行100%氮气测试。

压力等级

真空至300psig (20 bar)
测试压力:150psig (10 bar)

泄漏试验

1×10-8 scc / sec

Application

- Inert bulk gas distribution
- Nitrogen for pneumatic applications
- Process vacuum exhaust
- Dry, oil free compressed air systems
- Solvents, e.g. isopropylalcohol
- Breathable air

Easy Torque Handle

The heavy-duty, long handle gives plenty of leverage to open or close the valve against flowing process fluid.

Full Runner Design

Dramatically decreases fluid flow resistance, using the same bore size for both valve internal components and the connecting tube. Elimination of Butted welds reduces contaminant pockets.

UHP Cleaning, Packaging, and Testing

The final wash used 18mb DI water and high purity nitrogen from a cryogenic source. Each valve is 100% helium tested inside the seat and body seal.

Pressure Level

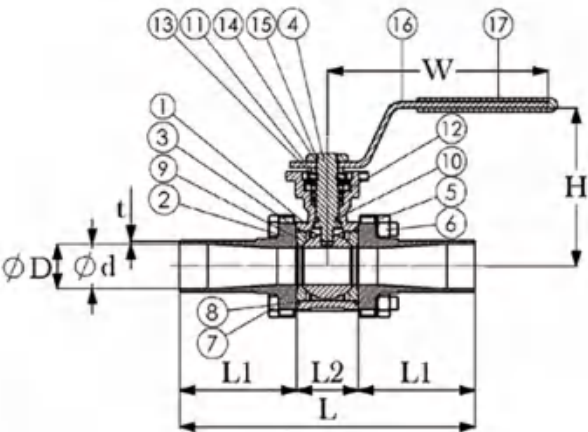
Vacuum to 300 psig (20 bar)
Test Pressure: 150 psig (10 bar)

Leak Test

1×10-8 scc / sec

手动半导体球阀
Manual Semiconductor Ball Valve

型号 Model NO.	Size	D	d	t	W	H	L1	L2	L
BL	15A	21.7	18.4	1.65	100	57.80	71.5	27.2	155
BL	20A	27.2	23.9	1.65	130	63.70	71.9	32.2	163
BL	25A	34.0	30.7	1.65	150	72.70	86.4	39.2	163
BL	32A	42.7	39.4	1.65	150	81.68	86.8	49.2	194
BL	40A	48.6	45.3	1.65	180	87.70	86.9	58.0	206
BL	50A	60.5	57.2	1.65	180	104.00	87.8	67.0	212
BL	65A	78.3	72.1	2.10	260	135.00	87.4	85.2	248
BL	80A	89.1	84.9	2.10	260	145.00	90.6	98.8	262
BL	100A	114.3	110.1	2.10	292	173.00	93.0	123.0	301



结构材质

Structural material

序号 No	名称 Part Description	材质 Material	数量 quantity	序号 No	名称 Part Description	材质 Material	数量 Quantity
1	阀体 Valve Body	A-351 CF8M	1	10	垫圈 Washer	RPTFE	1
2	阀盖 Cap	A-351 CF3M	2	11	弹垫 Spring Pad	VITON	2
3	球芯 Corel	SUS316	1	12	压盖填料 Gland Packing	PTFE	1
4	阀杆 Stem	SUS316	1	13	压紧螺母 Compression Nut	SUS304	1
5	螺栓垫圈 Bolt Washer	SUS304	4	14	手柄垫圈 Handle Washer	SUS304	1
6	螺栓螺母 Bolts and Nuts	SUS304	4	15	手柄螺母 Handle Nut	SUS304	1
7	螺栓 Bolt	SUS304	4	16	手柄 Handle	SUS304	1
8	垫片接头 Gasket Joint	PTFE	2	17	手柄套 Handle Cover	VINYL	1
9	阀座 Valve Seat	RPTFE/PTFE	2				

型号 Model NO.	Size	D	d	t	W	H	L1	L2	L
BL	1/2"	12.7	9.4	1.65	100	57.80	71.5	27.2	135
BL	3/4"	19.05	15.75	1.65	130	63.70	71.9	32.2	135
BL	1"	25.4	22.1	1.65	150	72.70	86.4	39.2	152
BL	1 1/4"	31.75	28.45	1.65					
BL	1 1/2"	38.1	34.8	1.65	180	87.70	86.9	58.0	190
BL	2"	50.8	47.5	1.65	180	104.00	87.8	67.0	204
BL	2 1/2"	63.5	60.2	1.65	260	135.00	87.4	85.2	254
BL	3"	76.2	72.9	1.65	260	145.00	90.6	98.8	280
BL	4"	101.6	97.38	2.10	292	173.30	93.0	123.0	360

保温球阀 Insulation Ball Valve

特点 Features

保温球阀是一种比较新型的球阀类别,它有着自身结构所独有的一些优越性,如开关无摩擦,密封不易磨损,启闭力矩小。主要用糖浆、巧克力、膏体及日化等要求严格切断的工况。

Insulation ball valve is a relatively new type of ball valve. It has some advantages unique to its own structure, such as frictionless switch, less wear and tear on the seal, and small opening and closing torque. Mainly used in syrup, chocolate, paste and daily chemicals and other conditions that require strict cutting.

优点 Advantage

- 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。
- 紧密可靠,球阀的密封面材料采用进口PTFE、密封性好。
- 操作方便,开闭迅速,从全开到全关只要旋转90°,便于远距离的控制。
- 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,不会引起阀门密封面的侵蚀。
- 适用范围广,通径从DN15-200,球旋转90度时,在进、出口处应全部呈现球面,从而截断流动。

- The fluid resistance is small and its resistance coefficient is equal to the pipe segment of the same length.
- Simple structure, small size and light weight.
- Tight and reliable, the sealing surface of the ball valve is made of imported ptfe with good sealing performance.
- Easy to operate, quick opening and closing, only 90° rotation from full opening to full closing is needed for remote control.
- When fully open or fully closed, the sealing surface of the ball and seat is isolated from the medium. When the medium passes through, it will not cause erosion of the sealing surface of the valve.
- Wide range of application, diameter from dn15-200, when the ball rotates 90 degrees, all the inlet and outlet should be spherical, thus cutting off the flow.



酿酒球阀 Wine Ball Valve

应用 Applications

酿酒行业主流高端球阀的制造工艺,阀体采用耐酸、耐碱、耐腐蚀的锻件304L、316L材质,钢性强度高,温度作用下承受更高的酸碱,有效解决液体介质的塑化、腐蚀等行业通病。

排污口结构,安全、卫生、无死角,让酒类介质通过阀腔时,不产生氧化等不良化学反应。使阀门在工艺管道上运行更持久、更稳定。

规格: 1"-4"。

驱动: 手动、气动、电动

连接方式: 快装、焊接、螺纹、法兰

The mainstream high-end ball valve manufacturing process in the brewing industry, the valve body is made of acid-resistant, alkali-resistant and corrosion-resistant forgings 304L and 316L, which have high rigidity and can withstand higher acid and alkali under the action of temperature, effectively solving the plasticization and corrosion of liquid media, and other common problems in the industry.

The structure of the sewage outlet is safe, hygienic, and has no dead ends. When the alcoholic medium passes through the valve cavity, there will be no adverse chemical reactions such as oxidation. Makes valves run longer and more consistently on process piping.

Size: 1"-4".

Drive: Manual, Pneumatic, Electric

Connection method: quick installation, welding, thread, flange



酿酒行业匠心智造



卫生级蝶阀 Sanitary Butterfly Valve



应用

该类型阀门系列是一款卫生型自动或手动操作的蝶阀系列, 广泛适用于不锈钢管道系统内调节介质流量的一类阀门。

工作原理

该类型阀门既可以通过一个电动执行器或气动执行器进行远程遥控操作, 也可以通过一个手柄进行人为操控。
电动执行器或气动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位子上, 达到控制介质流量的目的:
拉杆式手动操作手柄通过4个多功能定位, 将阀门机械式锁定在其开启或关闭的4个位子上, 也达到控制介质流量的目的。

材料

钢制部件: SUS304, SUS316L
密封圈: 硅橡胶 (VMQ)、氟橡胶 (FPM)、三元乙丙 (EPDM)

Application

This type of valve series is a series of hygienic automatic or manual operation butterfly valves, which are widely used in a type of valve for regulating the flow of medium in stainless steel pipeline systems.

Work Principle

This kind of valve can be handled by manual an electric actuator, and also can be handled by a pneumatic actuator. Electric actuator or pneumatic actuator covert the axial movement of piston to be 90° rotation of valve shaft. So that 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 : normally open (NO) , normally closed (NC), air/ air (A/A).
Muti-position handle regulates the valve by 15 ° in its open or close 12 seats achiening control of medium flow purpose:
Pulling handle regulates the valve through four multi-function positioning, in its open or close four position,also achieves control of medium flow purpose.

Material

Steel parts:SUS304,SUS316L
Seal: silicone (VMQ) , fluoroelastomer (FPM) , EPDM

不锈钢气动执行器 Stainless Steel Pneumatic Actuator

应用 Applications

不锈钢垂直式气动执行器, 主要应用在蝶阀, 球阀等各种角行程阀门上。安装位置传感器, 智能控制器, 即可实现阀门自动化控制。尤其对环境要求较高车间如食品加工, 饮料, 果汁, 啤酒, 制药等工业领域。

Stainless steel vertical pneumatic actuators are mainly used in various angular stroke valves such as butterfly valves and ball valves. Install position sensor and intelligent controller to realize automatic valve control. Especially for workshops with high environmental requirements such as food processing, beverage, juice, beer, pharmaceutical and other industrial fields.



不锈钢执行器
Stainless steel pneumatic actuator

D	H	K
86	172.5	8x8
86	172.5	10x10
86	172.5	11x11
114	244	11x11
114	244	14x14
133	295	11x11
133	295	14x14

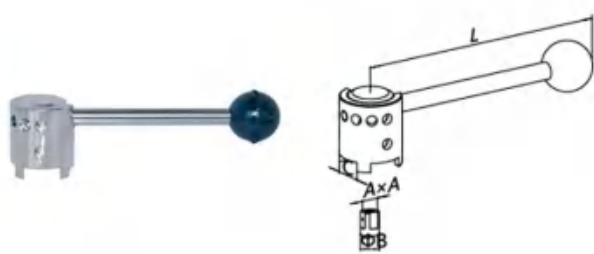


卫生级蝶阀手柄 Sanitary Butterfly Valve Handle

A型 圆头拉式手柄 A type round head pulling handle

Size		A	B	C	L
DN25~DN65	1.0*~3.0*	10*10	12.5	20	138
DN80~DN100	4.0*	10*10	12.5	20	160
DN125~DN200	5.0*~8.0*	12*12	15.0	30	220

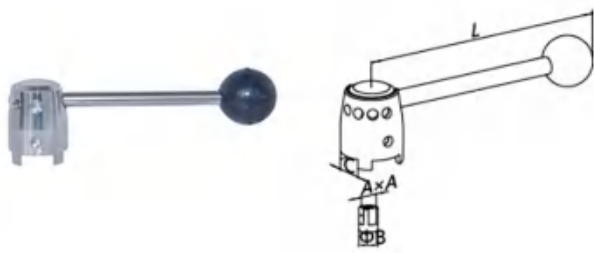
调节方式: 2个定位、3个定位、4个定位; 可装配所有蝶阀。
Adjusting: 2 position, 3 position, 4 position used for butterfly valve



A-1型 圆头拉式手柄 A-1 type round head pulling handle

Size		A	B	C	L
DN25~DN65	1.0*~3.0*	10*10	12.5	20	138
DN80~DN100	4.0*	10*10	12.5	20	160

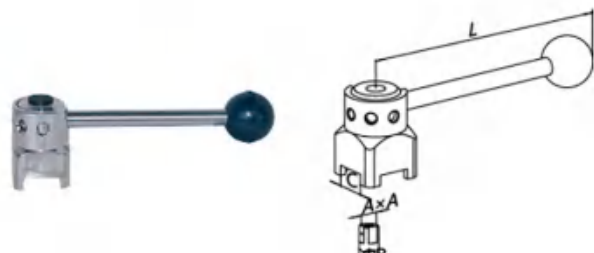
调节方式: 2个定位、3个定位、4个定位; 可装配所有蝶阀。
Adjusting: 2 position 3 position 4 position used for butterfly valve



B型 方头拉式手柄 B type square head pulling handle

Size		A	B	C	L
DN25~DN65	1.0*~3.0*	10*10	12.5	20	140
DN80~DN100	4.0*	10*10	12.5	20	155
DN125~DN200	5.0*~8.0*	12*12	15.0	30	190

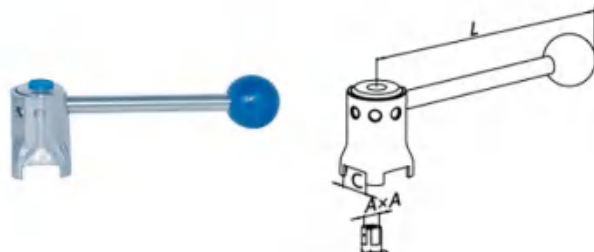
调节方式: 2个定位、3个定位、4个定位; 可装配所有蝶阀。
Adjusting: 2 position, 2 position, 2 position used for butterfly valve



C型 方头拉式手柄 C type square head pulling handle

Size		A	B	C	L
DN25~DN65	1.0*~3.0*	10*10	12.5	20	140
DN80~DN100	4.0*	10*10	12.5	20	155
DN125~DN200	5.0*~8.0*	12*12	15.0	30	190

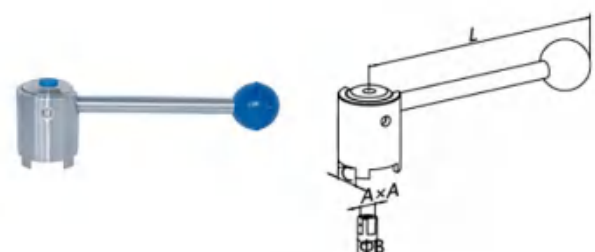
调节方式: 2个定位、3个定位、4个定位; 可装配所有蝶阀。
Adjusting: 2 position, 2 position, 2 position used for butterfly valve



D型 圆头拉式手柄 D type round head pulling handle

Size		A	B	C	L
DN25~DN65	1.0"~3.0"	10*10	12.5	20	138
DN80~DN100	4.0"	10*10	12.5	20	160

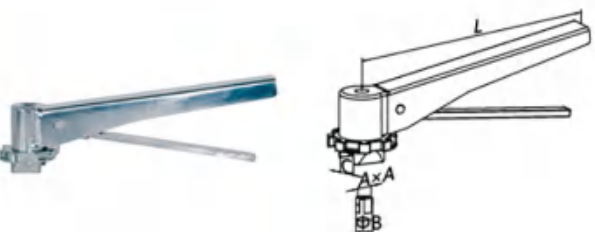
调节方式: 2个定位、3个定位、4个定位; 可装配所有蝶阀。
Adjusting: 2 position, 3 position, 4 position used for butterfly valve



E型 不锈钢多位手柄 E type stainless steel multi-position handle

Size		A	B	C	L
DN25~DN65	1.0*~3.0*	10*10	12.5	20	150
DN80~DN100	4.0*	10*10	12.5	20	170

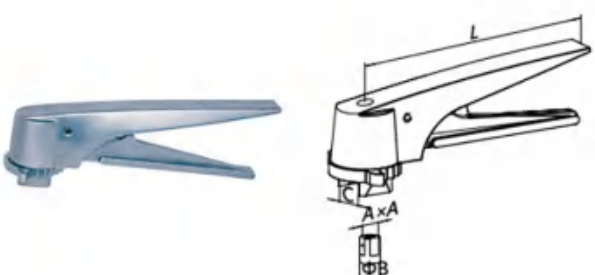
调节方式: 可通过45°位置调节开启大小, 共有八个档位; 可装配所有蝶阀。
Adjusting: adjustmet 45°, 8 position used for butterfly valve



F型 不锈钢多位手柄 F type stainless steel multi-position handle

Size		A	B	C	L
DN25~DN50	1.0*~2.5*	10*10	12.5	20	140
DN65~DN100	3.0*~4.0*	10*10	12.5	20	160

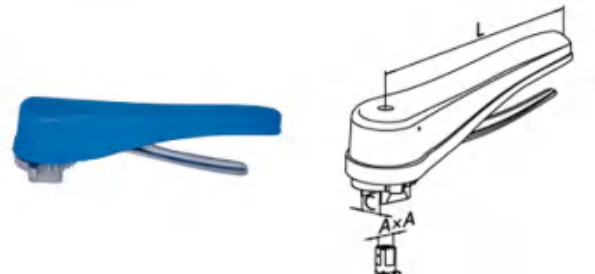
调节方式: 可通过15°位置调节开启大小, 共有十三个档位; 可装配所有蝶阀。
Adjusting: adjustmet 15°, 13 position used for butterfly valve



G型 塑料多位手柄 G type plastic multi-position handle

Size		A	B	C	L
DN25~DN50	1.0"~2.5"	10*10	12.5	20	145
DN65~DN100	3.0"~4.0"	10*10	12.5	20	165

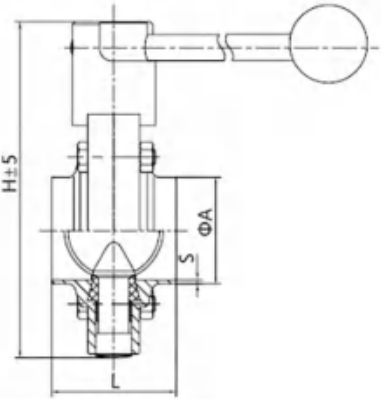
调节方式: 可通过15°位置调节开启大小, 共有十三个档位; 可装配所有蝶阀。
Adjusting: adjustmet 15°, 13 position used for butterfly valve



卫生级手动焊接蝶阀 Sanitary Manual Welded Butterfly Valve

手动焊接式
Manual welding

DN	A		S	L	H
	Series 1	Series 2			
DN20	22	23	1.5	50	120
DN25	28	29	1.5	50	120
DN32	34	35	1.5	50	125
DN40	40	41	1.5	50	131
DN50	52	53	1.5	52	150
DN65	70		2	56	170
DN80	85		2	60	188
DN100	104		2	75	208
DN125	129		2	85	237
DN150	154		2	110	287



SMS

Size	A	S	L	H
SMS25	25	1.25	50	120
SMS38	38	1.25	50	130
SMS51	51	1.25	52	150
SMS63.5	63.5	1.5	56	170
SMS76	76.1	1.6	60	188
SMS101.6	101.6	2	75	208

3A

Size	A	S	L	H
1"	25.4	1.65	50	120
1.5"	38.1	1.65	50	130
2"	50.8	1.65	52	150
2.5"	63.5	1.65	56	170
3"	76.2	1.65	60	188
4"	101.6	2.11	75	208

ISO

Size	A	S	L	H
33.7	33.7	2	50	120
42.4	42.4	2	50	130
48.3	48.3	2	52	150
60.3	60.3	2	56	170
76.1	76.1	2.3	60	188
114.3	114.3	2.6	85	208

卫生级手动快装蝶阀 Sanitary Manual Quick Installation Butterfly Valve

手动快装式
Manual quick release

DN	A	B	L	H
DN20	20	34	66	120
DN25	26	50.5	66	120
DN32	32	50.5	66	125
DN40	38	50.5	70	130
DN50	50	64	70	150
DN65	66	91	72	170
DN80	81	106	85	188
DN100	100	119	90	208
DN125	125	155	100	237
DN150	150	183	110	280

SMS / 3A / ISO

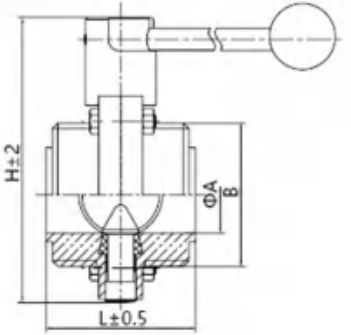
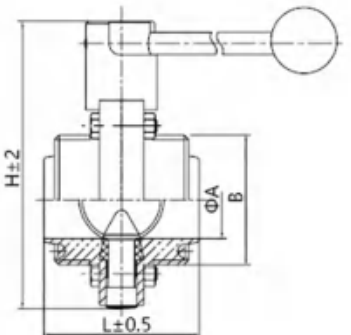
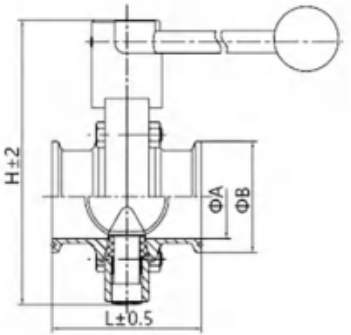
Size	A	B	L	H
1.0"	22.1	50.5	66	130
1.5"	34.8	50.5	66	130
2.0"	47.5	64	70	140
2.5"	60.2	77.5	76	170
3.0"	72.9	91	76	170
3.5"	85	106	85	170
4.0"	97.38	119	90	208

手动螺纹式
Manual thread

Size	A	B	L	H
1.0"	22.1	45.72×8TPI WHIT	66	120
1.5"	34.8	58.42×8TPI WHIT	70	130
2.0"	47.5	72.72×6TPI WHIT	70	150
2.5"	60.2	85.42×6TPI WHIT	80	170
3.0"	72.9	98.12×6TPI WHIT	80	188
4.0"	97.6	123.52×6TPI WHIT	85	208

手动螺纹式
Manual thread

Size	A	B	L	H
1.0"	22.1	37.13×8TPI ACME	66	120
1.5"	34.8	50.65×8TPI ACME	70	130
2.0"	47.5	64.16×8TPI ACME	70	150
2.5"	60.2	77.67×8TPI ACME	80	170
3.0"	72.9	91.19×8TPI ACME	80	188
4.0"	97.6	125.9×6TPI ACME	85	208



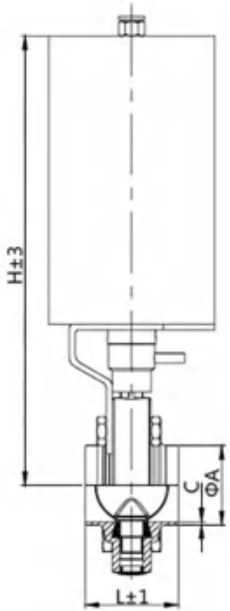
卫生级气动焊接蝶阀 Sanitary Pneumatic Welding Butterfly Valve

气动焊接式

Pneumatic welding

DIN

DN	A		C	L	H
	series 1	series 2			
DN20	22	23	1.5	50	223
DN25	28	29	1.5	50	225
DN32	34	35	1.5	50	228
DN40	40	41	1.5	50	232
DN50	52	53	1.5	52	240
DN65	70		2.0	56	250
DN80	85		2.0	60	257
DN100	104		2.0	75	267



SMS

Size	A	C	L	H
SMS25	25	1.25	50	223
SMS38	38	1.25	50	228
SMS51	51	1.25	52	236
SMS63.5	63.5	1.5	56	244
SMS76	76.1	1.6	60	249
SMS101.6	101.6	2	75	267

3A

Size	A	C	L	H
1"	25.4	1.65	44	223.5
1.5"	38.1	1.65	44	228.5
2"	50.8	1.65	50	236.5
2.5"	63.5	1.65	50	244.3
3"	76.2	1.65	56	249.5
4"	101.6	2.11	60	267.3

ISO

Size	A	C	L	H
33.7	33.7	2	44	223
42.4	42.4	2	44	228
48.3	48.3	2	44	236
60.3	60.3	2	50	244
76.1	76.1	2.3	56	249
114.3	114.3	2.6	60	267

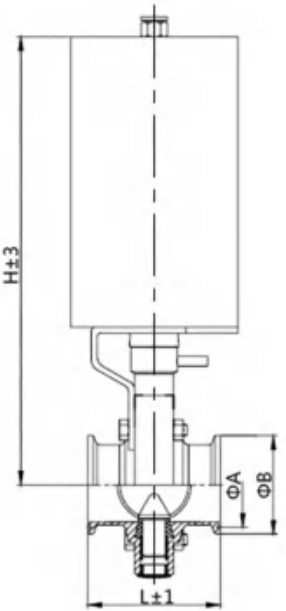
卫生级气动快装蝶阀 Sanitary Pneumatic Quick Installation Butterfly Valve

气动快装式

Pneumatic quick-loading

DIN

DN	A	B	L	H
DN20	20	34.5	66	223
DN25	26	50.5	66	225
DN32	32	50.5	66	228
DN40	38	50.5	68	232
DN50	50	64	70	240
DN65	66	91	72	250
DN80	81	106	90	257
DN100	100	119	94	267



SMS / 3A / ISO

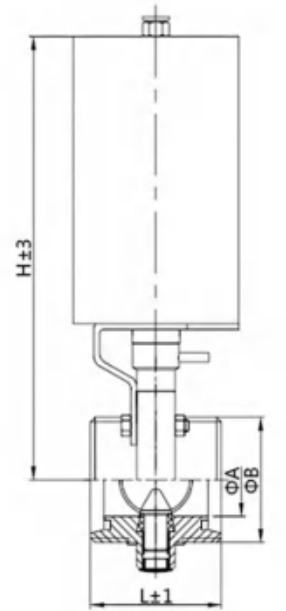
Size	A	B	L	H
1.0"	22.1	50.5	66	223
1.5"	34.9	50.5	70	228
2.0"	47.5	64	70	236
2.5"	60.2	77.5	76	244
3.0"	72.9	91	76	249
3.5"	84	106	85	249
4.0"	97.6	119	90	267

气动螺纹式

Pneumatic thread

DIN

DN	A	B	L	H
DN20	20	RD44×1/6"	66	223
DN25	26	RD52×1/6"	66	225
DN32	32	RD58×1/6"	66	228
DN40	38	RD65×1/6"	68	232
DN50	50	RD78×1/6"	70	240
DN65	66	RD95×1/6"	72	250
DN80	81	RD110×1/4"	92	257
DN100	100	RD130×1/4"	96	267

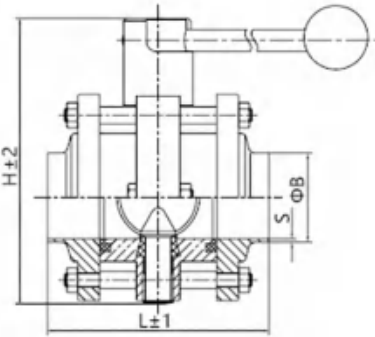


卫生级手动三片式蝶阀

Sanitary Manual Three-piece Butterfly Valve

手动三片式
Manual three-piece DIN

DN	S	B		L	H
		Series 1	Series 2		
DN25	1.5	28	29	90	120
DN32	1.5	34	35	90	125
DN40	1.5	40	41	90	130
DN50	1.5	52	53	90	150
DN65	2	70		105	170
DN80	2	85		105	188
DN100	2	104		105	208
DN125	2	129		140	237
DN150	2	154		150	287



SMS

Size	S	B	L	H
SMS25	1.25	25	90	120
SMS38	1.25	38	90	130
SMS51	1.25	51	90	150
SMS63.5	1.5	63.5	105	170
SMS76	1.6	76.1	105	188
SMS101.6	2	101.6	105	208

3A

Size	S	B	L	H
1"	1.65	25.4	90	120
1.5"	1.65	38.1	90	130
2"	1.65	50.8	90	150
2.5"	1.65	63.5	105	170
3"	1.65	76.2	105	188
4"	2.11	101.6	105	208

ISO

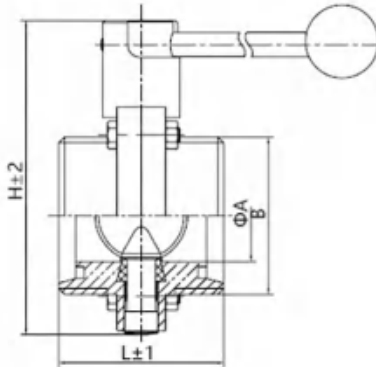
Size	S	B	L	H
33.7	2	33.7	90	120
42.4	2	42.4	90	125
48.3	2	48.3	90	130
60.3	2	60.3	105	150
76.1	2.3	76.1	105	188
114.3	2.6	114.3	105	208

卫生级手动螺纹蝶阀

Sanitary Manual Thread Butterfly Valve

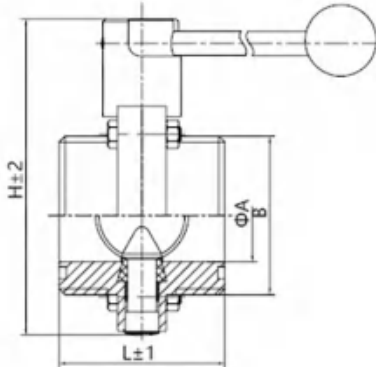
手动螺纹式
Manual thread DIN

DN	A	B	L	H
DN20	20	RD44×1/6"	66	120
DN25	26	RD52×1/6"	66	120
DN32	32	RD58×1/6"	66	125
DN40	38	RD65×1/6"	68	130
DN50	50	RD78×1/6"	70	150
DN65	66	RD95×1/6"	72	170
DN80	81	RD110×1/4"	92	188
DN100	100	RD130×1/4"	96	208
DN125	125	RD160×1/4"	106	237
DN150	150	RD190×1/4"	120	287



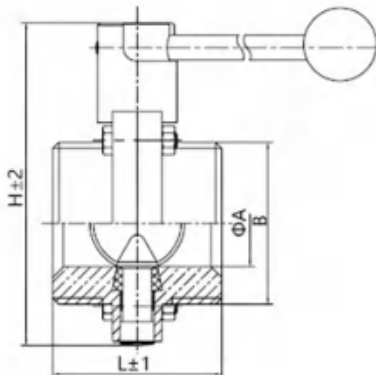
手动螺纹式
Manual thread SMS

Size	A	B	L	H
SMS25	22.5	RD40×1/6"	66	120
SMS38	35.5	RD60×1/6"	72	130
SMS51	48.5	RD70×1/6"	76	150
SMS63.5	60.5	RD85×1/6"	80	170
SMS76	72.9	RD98×1/4"	80	188
SMS101.6	97.6	RD125×1/4"	94	208



手动螺纹式
Manual thread 3A

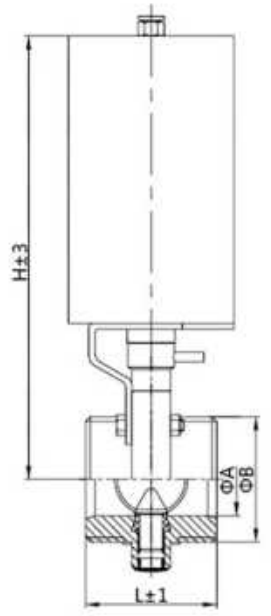
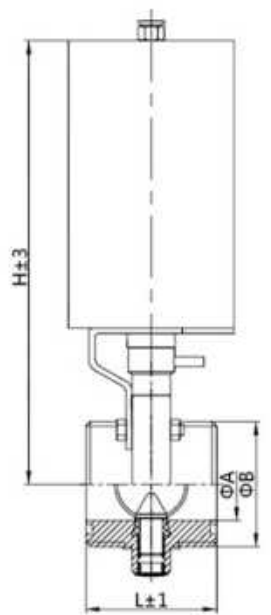
Size	A	B	L	H
1.0"	22.1	37.13×8TPI ACME	66	120
1.5"	34.8	50.65×8TPI ACME	72	130
2.0"	47.5	64.16×8TPI ACME	76	150
2.5"	60.2	77.67×8TPI ACME	80	170
3.0"	72.9	91.19×8TPI ACME	80	188
4.0"	97.6	119.25×6TPI ACME	94	208



卫生级气动螺纹蝶阀
Sanitary Pneumatic Thread Butterfly Valve

气动螺纹式
Pneumatic thread SMS

Size	A	B	L	H
SMS25	22.5	RD40×1/6"	66	225
SMS32	35.5	RD60×1/6"	72	228
SMS51	48.5	RD70×1/6"	76	240
SMS63.5	60.5	RD85×1/6"	80	250
SMS76	72.9	RD98×1/4"	80	257
SMS101.6	97.6	RD125×1/4"	94	267



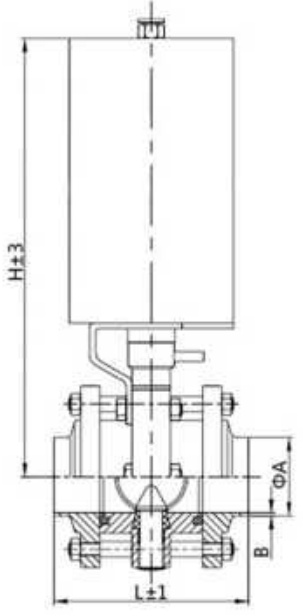
气动螺纹式
Pneumatic thread 3A

Size	A	B	L	H
1.0"	22.1	37.13×8TPI ACME	66	223
1.5"	34.8	50.65×8TPI ACME	72	228
2.0"	47.5	64.16×8TPI ACME	76	236
2.5"	60.2	77.67×8TPI ACME	80	244
3.0"	72.9	91.19×8TPI ACME	80	250
4.0"	97.38	119.25×6TPI ACME	96	267

卫生级气动三片式蝶阀
Sanitary Pneumatic Three-piece Butterfly Valve

气动三片式
Pneumatic three-piece DIN

DN	A		B	L	H
	series 1	series 2			
DN20	22	23	1.5	100	223
DN25	28	29	1.5	90	225
DN32	34	35	1.5	90	228
DN40	40	41	1.5	90	232
DN50	52	53	1.5	90	240
DN65	70		2.0	105	250
DN80	85		2.0	105	257
DN100	104		2.0	105	267



Size	A	B	L	H
SMS25	25	1.25	90	223
SMS38	38	1.25	90	228
SMS51	51	1.25	90	236
SMS63.5	63.5	1.5	105	244
SMS76	76.1	1.6	105	250
SMS101.6	101.6	2	105	267

Size	A	B	L	H
SMS25	25.4	1.65	90	223
SMS38	38.1	1.65	90	228
SMS51	50.8	1.65	90	236
SMS63.5	63.5	1.65	105	244
SMS76	76.2	1.65	105	250
SMS101.6	101.6	2.11	105	267

Size	A	B	L	H
33.7	33.7	2	90	223
42.4	42.4	2	90	228
48.3	48.3	2	90	236
60.3	60.3	2	105	244
76.1	76.1	2.3	105	250
114.3	114.3	2.6	105	267

隔膜阀行业应用 Diaphragm Valve Industry Application



卫生级隔膜阀 SANITARY DIAPHRAGM VALVE



眼药制造机械
Eye medicine manufacturing machinery



药物罐装机械
Drug canning machinery



矿泉水罐装机械
Mineral water canning machinery



制药行业DE-CIP安装
DE-CIP installation in the pharmaceutical industry



生物发酵生产设备
Biological fermentation production equipment



超纯水生产设备
Ultrapure water production equipment

无菌隔膜阀

Aseptic Diaphragm Valve

应用领域 Application Field

沃托生产的无菌隔膜阀可满足无菌和超卫生加工领域所有要求。广泛应用于医药、生物制药行业, 以及半导体超纯行业, 微电子工业, 精细化工行业。

隔膜阀是一款卫生型的隔膜阀系列, 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, 实现对管道流体的控制和开/关任务。

标准化设计 Standardized Design

无菌隔膜阀符合各式国际标准设计, 满足各种配置需求。每个阀门串行化标识。保证完整材料的可追溯性。阀体表面高洁净平滑、无死角流道设计、自排净安装角度, 易于拆卸、维护和清洁。无菌隔膜阀主要由阀体、隔膜阀、驱动器、自动化控制装置组成。顾客可依照设计需求选择产品。

有各种标准的隔膜阀系列可向客户提供, 即用于DIN标准系列, 3A标准系列, SMS标准系列, ISO/IDF标准系列, BS/RJT标准系列, ASME /BPE等标准系列。

该阀门的组成部件包括: 一个执行装置, 膜片和阀体, 是用螺栓及螺母组装在一起, 整个阀门的组装都是精心细致的。其执行装置包括手动和气动, 膜片具有各种软硬程度的人造橡胶, 阀体为两通或三通阀。

WOTUO 现有的隔膜阀系列规格有: 卡式隔膜阀、焊接式隔膜阀、T型三通式隔膜、U型三通式隔膜阀等系列隔膜阀。

Wotuo produces aseptic diaphragm valves to meet all requirements in the field of aseptic and ultra-hygienic processing. Widely used in medicine, biopharmaceutical industry, as well as semiconductor ultra-pure industry, microelectronics industry, fine chemical industry.

Diaphragm valve is a series of hygienic diaphragm valves, which are widely used in the food industry such as hygienic wine, dairy products and beverages, as well as in the pharmaceutical field under aseptic conditions, to realize the control and on/off tasks of pipeline fluid.

Aseptic diaphragm valves are designed in accordance with various international standards to meet various configuration requirements. Each valve is identified serially. Guaranteed traceability of complete materials. The surface of the valve body is highly clean and smooth, with no dead angle flow channel design, self-draining installation angle, easy to disassemble, maintain and clean. Aseptic diaphragm valve is mainly composed of valve body, diaphragm valve, driver and automatic control device. Customers can choose products according to design requirements.

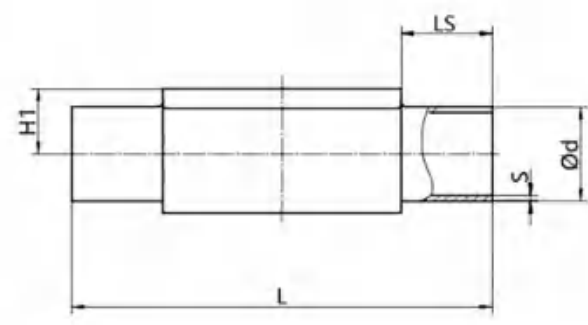
There are various standard diaphragm valve series available to customers, namely for DIN standard series, 3A standard series, SMS standard series, ISO/IDF standard series, BS/RJT standard series, ASME/BPE and other standard series.

The components of the valve include: an actuator, diaphragm and valve body, which are assembled together with bolts and nuts. The assembly of the entire valve is meticulous and meticulous. Its actuators include manual and pneumatic, the diaphragm has various degrees of softness and hardness of artificial rubber, and the valve body is a two-way or three-way valve.

WOTUO's existing series of diaphragm valves include: cassette diaphragm valve, welded diaphragm valve, T-type three-way diaphragm, U-type three-way diaphragm valve and other series of diaphragm valves.

焊接接口

Welding Interface



尺寸单位: mm							ISO	DIN	DIN11850		SMS	ASTM269	JIS-G	JIS-G
DN	NPS	MA	L	LS (min)	H1*	H1**	600	000	160	170	370	590	360	350
							d×S	d×S	d×S	d×S	d×S	d×S	d×S	d×S
4	-	8	72	20	8.5	8.5	-	6×1.00	-	-	-	-	-	-
6	-	8	72	20	8.5	8.5	-	8×1.00	-	-	-	-	10.5×1.20	-
8	1/4"	8	72	20	8.5	8.5	13.5×1.60	10×1.00	-	-	-	6.35×0.89	13.8×1.65	-
10	3/8"	8	72	20	8.5	8.5	-	-	12×1.00	13×1.50	-	9.53×0.89	-	-
15	1/2"	8	72	20	8.5	8.5	-	-	-	-	-	12.70×1.65	-	-
10	3/8"	10	108	25	12.5	12.5	17.2×1.60	-	12×1.00	13×1.50	-	9.53×0.89	17.3×1.65	-
15	1/2"	10	108	25	12.5	12.5	21.3×1.60	18×1.50	18×1.00	19×1.50	-	12.70×1.65	21.7×2.10	-
20	3/4"	10	108	25	12.5	12.5	-	-	-	-	-	19.05×1.65	-	-
15	1/2"	25	108	25	13	19	21.3×1.60	18×1.50	18×1.00	19×1.50	-	12.70×1.65	21.7×2.10	-
20	3/4"	25	117	25	16	19	26.9×1.60	22×1.50	22×1.00	23×1.50	-	19.05×1.65	27.2×2.10	-
25	1"	25	127	25	19	19	33.7×2.00	28×1.50	28×1.00	29×1.50	25.0×1.20	25.40×1.65	34.0×2.80	25.4×1.20
32	1 1/4"	40	145	25	24	26	42.4×2.00	34×1.50	34×1.00	35×1.50	33.7×1.20	-	42.7×2.80	31.8×1.20
40	1 1/2"	40	150	25	26	26	48.3×2.00	40×1.50	40×1.00	41×1.50	38.0×1.20	38.10×1.65	48.6×2.80	38.1×1.20
50	2"	50	179	30	32	32	60.3×2.00	52×1.50	52×1.00	53×1.50	51.0×1.20	50.80×1.65	60.5×2.80	50.8×1.50
65	2 1/2"	80	216	30	-	62	76.1×2.00	-	-	70×2.00	63.5×1.60	63.50×1.65	76.3×3.00	63.5×2.00
80	3"	80	254	30	-	62	88.9×2.30	-	-	85×2.00	76.1×1.60	76.20×1.65	89.1×3.00	76.3×2.00
100	4"	100	305	30	-	76	114.3×2.30	-	-	104×2.00	101.6×2.00	101.60×2.11	114.3×3.00	101.6×2.00

MA=隔膜尺寸
*只适用于铸钢阀体 **只适用于锻钢阀体

卡箍接口
Clamp Interface

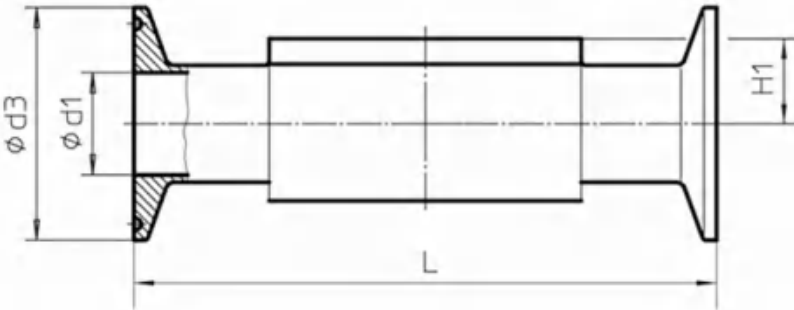
标准化设计 Standardized Design

所有的卡箍连接都是按照接口的标准尺寸(例如: DIN 11850, SMS 3008或者ASME BPE)机械加工而成的。我们遵从顾客所需的相应标准。

卡箍的焊接是由受过专业培训的焊接师按照国际最新技术标准进行的。用户也可以在伟恒焊接接口上连接自选的特殊接口，以做到一个阀体有多种接口可选。

All clamp connections are machined to the standard dimensions of the interface (eg DIN 11850, SMS 3008 or ASME BPE). We comply with the appropriate standards required by our customers.

The welding of the clamps is carried out by professionally trained welders in accordance with the latest international technical standards. The user can also connect the optional special interface on the Weiheng welding interface, so that a valve body has a variety of interfaces to choose from.



适用于锻钢直通式阀体 For forged steel in-line valve bodies	代码 Code
ASME BPE 标准卡箍适用于ASME BPE标准管道 ASME BPE Standard Clamps for ASME BPE Standard Pipe	800
ASME BPE 标准卡箍适用于EN ISO 1127标准管道,长度EN 558-1, 系列7 ASME BPE Standard Clamp for EN ISO 1127 Standard Pipe, Length EN 558-1, Series 7	820
ASME BPE 标准卡箍适用于ASME BPE标准管道,长度EN 558-1, 系列7 ASME BPE Standard Clamp for ASME BPE Standard Pipe, Length EN 558-1, Series 7	880
DIN 32676 标准卡箍适用于DIN 11850标准管道,长度EN 558-1, 系列7 DIN 32676 standard clamp for DIN 11850 standard pipe, length EN 558-1, series 7	860
SMS 3017 标准卡箍适用于SMS 308标准管道,长度EN 558-1, 系列7 SMS 3017 Standard Clamp for SMS 308 Standard Pipe, Length EN 558-1, Series 7	870

管道 Pipeline				代码 59 ASME-BPE			代码 60 EN ISO 1127			代码 59 ASME-BPE			代码 16,17,18 DIN 11850			代码 37 SMS 3008		
卡箍连接 Clamp connection				代码 80			代码 82			代码 88			代码 86			代码 87/8E		
DN	NPS	MA	H1	Ød1	Ød3	L	Ød1	Ød3	L	Ød1	Ød3	L	Ød1	Ød3	L	Ød1	Ød3	L
8	1/4"	8	8	4.57	25	63.5	10.30	25.4	63.5	-	-	-	-	-	-	-	-	-
10	3/8"		8	7.75	25	63.5	-	-	-	-	-	-	10.00	34	88.9	-	-	-
15	1/2"		8	9.40	25	63.5	-	-	-	9.40	25	108	-	-	-	-	-	-
10	3/8"	10	12.5	-	-	-	14.00	25.4	108	-	-	-	10.00	34	108	-	-	-
15	1/2"		12.5	9.40	25	88.9	18.10	50.5	108	9.40	25	108	16.00	34	108	-	-	-
20	3/4"		12.5	15.75	25	101.6	-	-	-	15.75	25	117	-	-	-	-	-	-
15	1/2"	25	19	9.40	25	101.6	18.10	50.5	108	9.40	25	108	16.00	34	108	-	-	-
20	3/4"		19	15.75	25	101.6	23.70	50.5	117	15.75	25	117	20.00	34	117	-	-	-
25	1"		19	22.10	50.5	114.3	29.70	50.5	128	22.10	50.5	127	26.00	50.5	127	22.60	50.5	127
32	1 1/4"	40	26	-	-	-	38.40	64	146	-	-	-	32.00	50.5	146	31.30	50.5	146
40	1 1/2"		26	34.80	50.5	139.7	44.30	64	151	34.80	50.5	159	38.00	50.5	159	35.60	50.5	159
50	2"	50	32	47.50	64	158.75	56.30	77.5	179	47.50	64	190	50.00	64	190	48.60	64	190
65	2 1/2"	80	62	60.20	77.5	193.68	72.10	91	216	60.20	77.5	216	66.00	91	216	60.30	77.5	216
80	3"		62	72.90	91	222.25	84.30	106	254	72.90	91	254	81.00	106	254	72.90	91	254
100	4"		76	97.38	119	292.1	109.70	144.5	305	97.38	119	305	100.00	119	305	97.60	119	305

尺寸单位 mm MA=隔膜尺寸

B600 GMP/SAP阀门构造

B600 GMP/SAP Valve Construction

使用说明 Instructions For Use

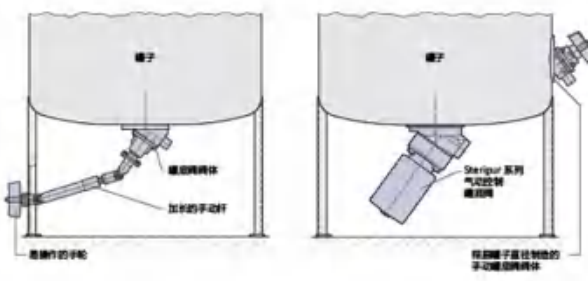
罐底阀焊接在容器的最底部,从而可以达到最佳的排空、清洗、消毒的效果。此外还可根据操作过程中各项工艺要求将工作介质很好的混合。重要的是,罐底阀的密封唇已经尽可以靠近罐底壁,从而达到零死角效果。

The bottom valve is welded to the bottom of the container to achieve optimum emptying, cleaning and disinfection. In addition, the working medium can be well mixed according to the various process requirements in the operation process. It is important that the sealing ridge of the tank bottom valve is as close as possible to the bottom wall of the tank to achieve a zero dead angle effect.

产品特点 Product Features

- 结构紧凑, 可以确保在狭小的空间实现安装
- 无死角, 可自动排空。阀体由一整块材料加工而成(无焊接的结构)
- 适用于CIP和SIP流程, 可高温消毒, 阀体表面可根据要求采用机械抛光或电抛光, 精度可达0.25um。
- 结构不论是从流量, 还是从工艺要求来看都很理想, 此外在排空的时候不会产生湍流现象。
- 可提供所有现行国际标准的接口, 如焊接口、卡箍接口或螺纹接口等。
- 采用的阀体材料为1.4435 / 316L不锈钢,当然也可根据客户的要求采用其他的合金。
- 罐底阀阀体既可配备手轮, 也可配备气动头或电动头。
- 采用焊接圈设计,减轻了罐底的焊接工作的难度

- Compact to ensure installation in tight spaces
- No dead ends, can be automatically emptied. The valve body is machined from a single piece of material (no welded structure)
- Suitable for CIP and SIP processes, high temperature disinfection, mechanical surface polishing or electropolishing on the surface of the valve body with an accuracy of 0.25um.
- The structure is ideal both in terms of flow rate and process requirements, and there is no turbulence when emptying.
- Provides interfaces to all current international standards such as welds, clamps or threaded connections.
- The body material used is 1.4435/316L stainless steel, of course, other alloys can be used according to customer requirements.
- The bottom valve body can be equipped with either a handwheel or a pneumatic or electric head.
- Welded ring design reduces the difficulty of welding at the bottom of the tank



表面光洁度

Surface Finish

现代化, 设计合理的工作场所和训练有素的专业人员为我们加工高质量的阀体表面提供了保证。不同的使用要求, 可以通过打磨, 抛光, 电抛光或电解得以实现。表面光洁度可从6.3um到0.25um。为保证产品质量, 所有的打磨和抛光工作都由沃托公司自行完成。

Modern, well-designed workplaces and well-trained professionals guarantee our high-quality valve body surfaces. Different usage requirements can be achieved by grinding, polishing, electropolishing or electrolysis. Surface finish can be from 6.3um to 0.25um. To ensure product quality, all grinding and polishing work is done by Wotuo Company itself.

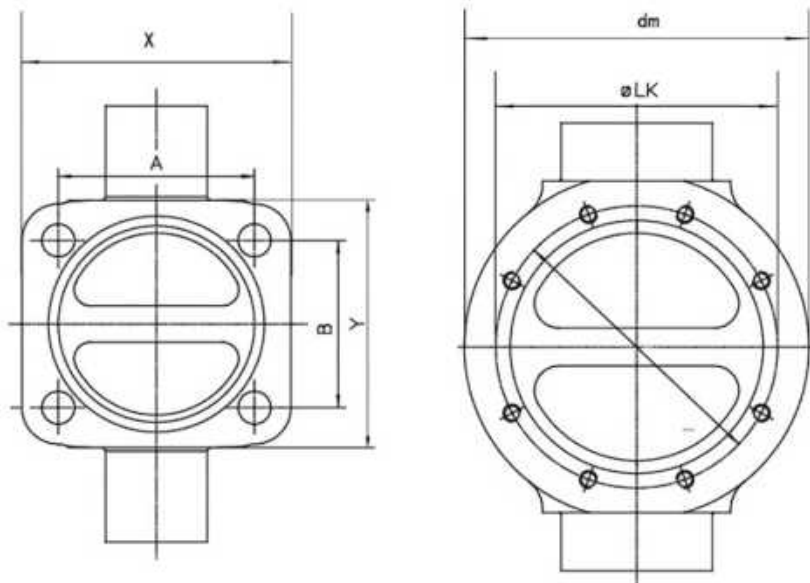
阀门表面光洁度等级 (按照DIN4768标准) Valve surface finish grade (according to DIN4768)		代码
Ra≤0.6um	内外表面机械抛光, 外表面玻璃珠喷砂 Internal and external surface mechanical polishing, external surface glass bead blasting	1534
Ra≤0.6um	内外表面电抛光 Electrothermal polishing of inner and outer surfaces	1535
Ra≤0.4um	内外表面机械抛光, 外表面玻璃珠喷砂 Internal and external surface mechanical polishing, external surface glass bead blasting	1536
Ra≤0.4um	内外表面电抛光 Electrothermal polishing of inner and outer surfaces	1537
Ra≤0.25um	内外表面机械抛光, 外表面玻璃珠喷砂 Internal and external surface mechanical polishing, external surface glass bead blasting	1538
Ra≤0.25um	内外表面电抛光 Electrothermal polishing of inner and outer surfaces	1539

制药、食品和生物技术专用隔膜一览表

List of Membranes for Pharmaceutical, Food and Biotechnology

隔膜尺寸 Diaphragm size	材质代码 Material code	FDA	液体介质 Fluid medium	高温蒸汽消毒 High temperature steam sterilization
8	FPDM	177.2600	90<C	150°C/40min ₁
	PTFE/EPDM	177.1550/21	90<C	150°C/40min ₁
10-80	EPDM	177.2600	90<C	130°C/40min ₁
	PTFE/EPDM	177.1550/21	90<C	150°C/40min ₁
25-80	PTFE/EPDM	177.1550/21	90<C	150°C/60min ₂
	PTFE	177.1550/21	90<C	160°C/60min ₂
100	EPDM	177.2600	90<C	130°C/40min ₁
	PTFE/EPDM	177.1550/21	90<C	150°C/40min ₁

隔膜
Diaphragm



阀门型号	MA	ISO			ASME-BPE			A	B	LK	x	y	dm
		DN(mm)	ID(mm)	Kv(m³/h)	DN(mm)	ID(mm)	Kv(m³/h)						
8873, 8850	8	4			4			22	22	-	32	32	-
	8	6			6								
	8	8	10, 3	2, 4	8	4, 57	0, 7						
	8	10			10	7, 75	1, 4						
	8	15			15	9, 40	2, 0						
8873, 8850	10	10	14, 0	3, 9	10	7, 75	1, 4	39	44	-	50	55	-
	10	15	18, 1	5, 3	15	9, 40	2, 2						
8873, 8850	25	15	18, 1	11	15	9, 40	2, 2	54	46	-	74	68	-
	25	20	23, 7	12, 5	20	15, 75	6, 8						
	25	25	29, 6	21, 0	25	22, 1	11, 5						
8873, 8850	40	32	38, 4	43, 0				70	65	-	102	92	-
	40	40	44, 3	50, 0	40	34, 8	40, 0						
8873, 8850	50	50	56, 3	64, 0	50	47, 5	48, 0	82	78	-	125	110	-
8873, 8850	80	65	72, 1	95, 0	65	60, 2	85, 0	127	114	-	192	162	-
	80	80	84, 3	127, 0	80	72, 9	110, 0						
8873, 8850	100	100	109, 7	205, 0	100	97, 4	185, 0	-	-	194	-	-	234

MA=隔膜尺寸
Kv值为p1=6bar隔膜材质为EPDM, 模具变更除外

隔膜片
Diaphragm

MA 8

EPDM

PTFE / EPDM
单片式

模制开

MA 10

EPDM

PTFE / EPDM
单片式

模制开

MA 25-80

EPDM

PTFE / EPDM
两片式

模制开

MA 100

EPDM

PTFE / EPDM
两片式

模制开

高温型卫生级隔膜阀 High Temperature Sanitary Diaphragm Valve

8873 8Z 手动隔膜阀 8873 8Z manual diaphragm valve

DN mm	驱动方式 Drive mode	工作压力 Working pressure	控制方式 Control method	阀体结构 Valve body structure	膜片材质 Diaphragm material
4 ↓ 15	带有闭锁限位装置和机械式位置的塑料手轮 Plastic handwheel with closed stop and mechanical display	EPDM 0-10bar PTFE 0-6bar	手动 Manual	两位两通阀体, T型阀体, 多通道阀, 罐底阀 Two-position two-way valve body, T-type valve body, multi-channel valve, tank bottom valve	PTFE/EPDM EPDM FPM

8873 10Z 手动隔膜阀 8873 10Z manual diaphragm valve

DN mm	驱动方式 Drive mode	工作压力 Working pressure	控制方式 Control method	阀体结构 Valve body structure	膜片材质 Diaphragm material
10 ↓ 20	带有闭锁限位装置和机械式位置的塑料手轮 Plastic handwheel with closed stop and mechanical display	EPDM 0-10bar PTFE 0-6bar	手动 Manual	两位两通阀体, T型阀体, 多通道阀, 罐底阀 Two-position two-way valve body, T-type valve body, multi-channel valve, tank bottom valve	PTFE/EPDM EPDM FPM

8873 25-80Z 手动隔膜阀 8873 25-80Z manual diaphragm valve

DN mm	驱动方式 Drive mode	工作压力 Working pressure	控制方式 Control method	阀体结构 Valve body structure	膜片材质 Diaphragm material
15 ↓ 50	带有闭锁限位装置和机械式位置的塑料手轮 Plastic handwheel with closed stop and mechanical display	EPDM 0-10bar PTFE 0-6bar	手动 Manual	两位两通阀体, T型阀体, 多通道阀, 罐底阀 Two-position two-way valve body, T-type valve body, multi-channel valve, tank bottom valve	PTFE/EPDM EPDM FPM PTFE/SILICON PTFE/FPM

8873 手动隔膜阀 8873 manual diaphragm valve

DN mm	驱动方式 Drive mode	工作压力 Working pressure	控制方式 Control method	阀体结构 Valve body structure	膜片材质 Diaphragm material	可选附件 Optional accessory
15 ↓ 40	带角式齿轮的塑料手轮 Plastic hand wheel with angle gear	EPDM 0-10bar PTFE 0-6bar	手动 Manual	罐底阀 Tank bottom valve	PTFE/EPDM EPDM FPM PTFE/SILICON PTFE/FPM	延长式手轮 Extended handwheel

8850 气动隔膜阀 8850 pneumatic diaphragm valve

DN mm	驱动方式 Drive mode	工作压力 Working pressure	控制方式 Control method	阀体结构 Valve body structure	膜片材质 Diaphragm material	可选附件 Optional accessory
8 ↓ 50	气动 pneumatic	EPDM 0-10bar PTFE 0-6bar	常闭/ Normally closed 常开/ Normally open 双作用/ Double acting	用于两位两通阀体的D型和T型阀帽, T型阀体, 多通道阀, 罐底阀 D and T bonnets for two-way valve bodies, T-type valve body, multi-channel valve, tank bottom valve	PTFE/ EPDM EPDM FPM	限位与密封调节器, 电动位置定位器 Limit and seal regulators, electric position control and process control positioners



产品型号/订购代码说明 Product Model/Order Code Description

沃托公司的订购系统基于各个产品的型号代码, 每个代码都明确指代了您所需的那种产品。

若您要选择某个阀门, 请先选择出阀门的种类、口径、阀体结构、接口方式及阀体材料等, 然后按照给出的顺序写下相应的代码。为避免混淆, 请在每个代码间添加分隔线。

WOTUO ordering system is based on the model code of each product, and each code clearly refers to the kind of product you need.

If you want to select a valve, please select the type of valve, the diameter, the valve body structure, the interface and the valve body material, and then write the corresponding code in the order given. To avoid confusion, add a divider between each code.

8873	50	B	590	Z1	83	0	1537
A	B	C	D	E	F	G	H

A 阀门型号

8873	金属隔膜阀	手动
8850	金属隔膜阀	气动

B 口径DN

C 阀体结构

D	两位两通直通阀
B	罐底阀
T	T型阀体 三通阀

D 接口方式 (阀体)

000	焊接, DIN标准
160	焊接, DIN 11850标准, 系列1
170	焊接, DIN 11850标准, 系列2
350	焊接, JIS-G 3447(IDF)标准
360	焊接, JIS-G 3459 SCH 10S标准
370	焊接, SMS 3008标准(ISO2037)
590	焊接, ASME-BPE标准
600	焊接, EN ISO 1127标准
800	ASME BPE 标准卡箍接口 适用于ASME BPE 标准管道
820	EN ISO 1127 标准卡箍接口 适用于EN ISO 1127 标准管道
880	ASME BPE 标准卡箍接口 适用于ASME BPE 标准管道 长度 EN 588-1, 系列7

860

DIN 32676 标准卡箍接口
适用于DIN 11850 标准管道
长度 EN 588-1, 系列7

870

SMS 3017 标准卡箍接口
适用于SMS 3008 标准管道
长度 EN 588-1, 系列7

910

特殊接口

F

法兰接口

E 阀体材料 (不锈钢)

D1	1,4435	锻造不锈钢 (DN4-DN50)
Z1	1,4435=316L Fe < 1%	锻造不锈钢 (DN4-DN50)
T1	特殊材质	

F 隔膜材料, 可提供FDA

83	EPDM	三元乙丙橡胶
8E	PTFE/EPDM	丙片式 聚四氟乙烯/三元乙丙橡胶
8S	PTFE-Silicon	丙片式 聚四氟乙烯/硅胶

G 手动和气动阀门的控制方式

0	手动
1	气动执行结构, 常闭式
2	气动执行结构, 常开式

卫生级活接头 Sanitary Union

概述 Overview

沃托公司生产:DIN、SMS、3A、IDF、RJT、ISO、DS等标准卫生级活接头, 产品毛坯全部由棒材锻制, CNC数控精加工。所有产品均可按客户要求加工不同的表面粗糙度。

所有金属材质均可提供EN10204、3.1B证书。

所有密封材质符合: FDA 177.2600。

Wotuo Company produces: DIN, SMS, 3A, IDF, RJT, ISO, DS and other standard sanitary unions. The product blanks are all forged from bars and CNC numerical control finishing. All products can be processed with different surface roughness according to customer requirements.

All metal materials can provide EN10204, 3.1B certificate.

All sealing materials comply with: FDA 177.2600.



标准 Standard	DIN, 3A, SMS, RJT, ISO, IDF, DS, Macon, GB
尺寸 Size	1" - 6" DN10-DN200 17.2-168.3
金属材质 Metal material	304, 304L, 316, 316L (锻造 Forging)
密封材质 Sealing material	NBR, Silicone, EPDM, FPM, PTFE
表面处理 Surface qualities	1.Ra≤1.6μm
	2.Ra≤0.8μm
	3.Ra≤0.4 (抛光 Polished)

产品订购

Ordering Specifications

指定:

- 标准
- 规格
- 金属材质
- 密封材质
- 表面处理
- 数量

Specify:

- Standard
- Size
- Steel material
- Seal material
- Surface quality
- Quantity

例 Example					
标准 Standard	规格 Size	金属材质 Metal material	密封材质 Sealing material	表面处理 Surface quality	数量 Quantity
3A-13	1.5"	304	/	1(Ra≤1.6)	200

卫生级活接头 Sanitary Union

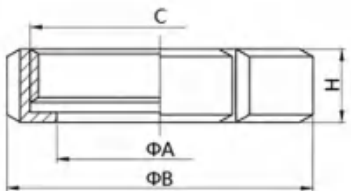
DIN

螺帽

Nut

DIN-13

DN	A	B	C	H
10	19	38	Rd28×1/8"	18
15	25	44	Rd34×1/8"	18
20	31	54	Rd44×1/6"	20
25	36	63	Rd52×1/6"	21
32	42.5	70	Rd58×1/6"	21
40	49	78	Rd65×1/6"	21
50	62	92	Rd78×1/6"	22
65	80	112	Rd95×1/6"	25
75/3.0"	88	120	Rd104×1/6"	26
80	94	127	Rd110×1/4"	29
100	115	138	Rd130×1/4"	31
125	138	178	Rd160×1/4"	35
150	164	210	Rd190×1/4"	40

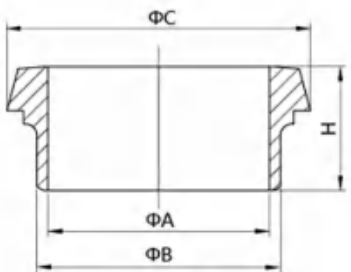


焊接接头

Welded joint

DIN-14

DN	A	B	C	H
10	10	15	22.5	17
15	16	21	28.5	17
20	20	25	36.5	18
25	26	31	44	22
32	32	37	50	25
40	38	43	56	26
50	50	55	68.5	28
65	66	72	86	32
80	81	87	100	37
100	100	106	121	44
125	125	132	150	34
150	150	157	176	37

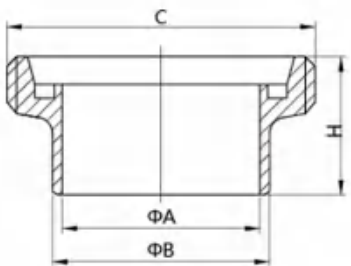


焊接云头

Welding cloud head

DIN-15

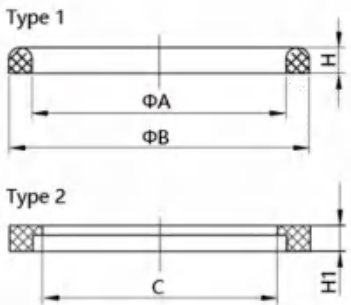
DN	A	B	C	H
10	10	15	Rd28×1/8"	21
15	16	21	Rd34×1/8"	21
20	20	25	Rd44×1/6"	24
25	26	31	Rd52×1/6"	29
32	32	37	Rd58×1/6"	32
40	38	43	Rd65×1/6"	33
50	50	55	Rd78×1/6"	35
65	66	72	Rd95×1/6"	40
80	81	87	Rd110×1/4"	45
100	100	106	Rd130×1/4"	54
125	125	132	Rd160×1/4"	46
150	150	157	Rd190×1/4"	50



密封圈

Sealing ring

DN	A	B	C	H	H1
10	12	20	10.2	4.5	5
15	18	26	16.2	4.5	5
20	23	33	20.2	4.5	5
25	30	40	26.2	5	6
32	36	46	32.2	5	6
40	42	52	38.2	5	6
50	54	64	50.2	5	6
65	71	81	66.2	5	6
80	85	95	81.2	5	6
100	104	114	100.2	6	6
125	130	142	125.2	7	7
150	155	167	150.2	7	7



卫生级活接头 Sanitary Union

螺帽
Nut

SMS-13

Size	A	B	C	H
25	32	51	Rd40×1/6"	20
32	40.5	60	Rd48×1/6"	22
38	48	74	Rd60×1/6"	25
51	61	84	Rd70×1/6"	26
63.5	74	100	Rd85×1/6"	30
76	87	114	Rd98×1/6"	32
101.6 (Max)	117	154	Rd132×1/6"	45
101.6 (Min)	113	140	Rd125×1/4"	32

焊接接头
Welded joint

SMS-14

Size	A	B	C	H
25	22.5	25	35.5	15
32	29.5	32	43.5	15
38	35.5	38	55	20
51	48.5	51	65	20
63.5	60.5	63.5	80	24
76	72.9	76.1	93	24
101.6 (Max)	97.6	101.6	127	30
101.6 (Min)	97.6	101.6	118	30

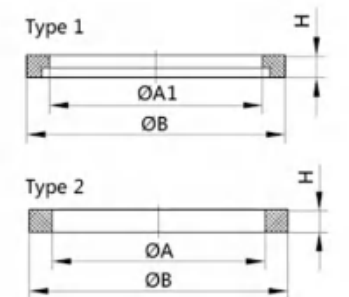
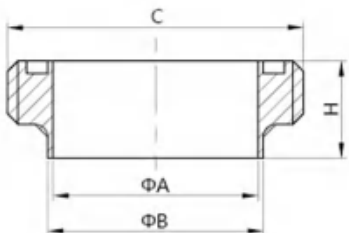
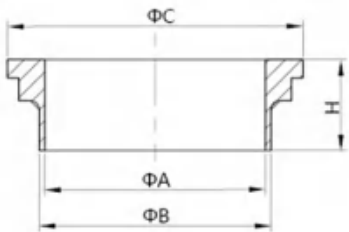
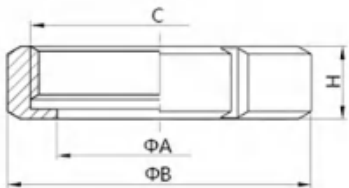
焊接云头
Welding cloud head

SMS-15

Size	A	B	C	H
25	22.5	25	Rd40×1/6"	19
32	29.5	32	Rd48×1/6"	19
38	35.5	38	Rd60×1/6"	23
51	48.5	51	Rd70×1/6"	23
63.5	60.5	63.5	Rd85×1/6"	27
76	72.9	76.1	Rd98×1/6"	27
101.6 (Max)	97.6	101.6	Rd132×1/6"	35
101.6 (Min)	97.6	101.6	Rd125×1/4"	30

密封圈
Sealing ring

Size	A	A1	B	H
25	25	22.7	31.8	5.3
32	32	29.7	39.8	5.3
38	38	35.7	47.8	5.3
51	51	45.5	60.8	5.3
63.5	63.5	60.7	73.2	5.3
76	76	72.3	85.8	5.3
101.6	101.6	97.8	103.8	5.3



SMS

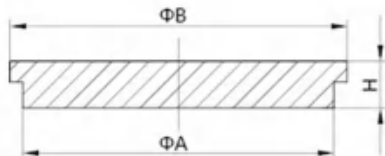
卫生级活接头 Sanitary Union

DS

盲接头
Blind joint

DS-14B

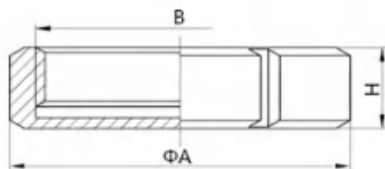
Size	A	B	H
1"	34.5	40.5	6
1 1/4"	41.5	48	6
1 1/2"	47.5	54	6
2"	61.5	68	6
2 1/2"	75.5	84	8
3"	87.5	96	8
4"	115	124.6	9



盲盖
Blind cover

DS-13RB

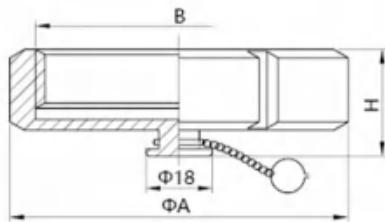
Size	A	B	H
1"	57	Rd44×1/6"	20
1 1/4"	65	Rd52×1/6"	20
1 1/2"	71	Rd58×1/6"	20
2"	88	Rd72×1/6"	22
2 1/2"	103	Rd88×1/6"	24
3"	115	Rd100×1/6"	25
4"	148	Rd130×1/4"	31



有耳盲盖
With ear blind cover

DS-13RBN

Size	A	B	H
1"	57	Rd44×1/6"	27
1 1/4"	65	Rd52×1/6"	27
1 1/2"	71	Rd58×1/6"	27
2"	88	Rd72×1/6"	27
2 1/2"	103	Rd88×1/6"	31
3"	115	Rd100×1/6"	32
4"	148	Rd130×1/4"	38



卫生级管件
Sanitary Fittings

概述 Overview

沃托公司生产:DIN、SMS、3A、BS、BPE、ISO2851、ISO1127等标准卫生级管件。产品毛坯全部由无缝管冷压成形。所有产品均可按客户要求加工不同的表面粗糙度。

所有金属材料均可提供EN10204、3.1B证书。

Wotuo Company produces: DIN, SMS, 3A, BS, BPE, ISO2851, ISO1127 and other standard sanitary pipe fittings. The product blanks are all cold-pressed from seamless pipes. All products can be processed with different surface roughness according to customer requirements.

All metal materials can provide EN10204, 3.1B certificate.



技术参数
Technical Data

标准 Standard	DIN, 3A, SMS, BS, ISO, GB
尺寸 Size	1"-6" DN10-DN200 17.2-168.3
金属材料 Metal material	304, 304L, 316, 316L
表面处理 Surface qualities	1) 180 Grit
	2) 240 Grit
	3) 320 Grit
	4) 420 Grit
	5) Unpolished

产品订购
Ordering Specifications

指定:

- 标准
- 规格
- 金属材质
- 表面处理
- 数量

Specify:

- Standard
- Size
- Steel material
- Surface quality
- Quantity

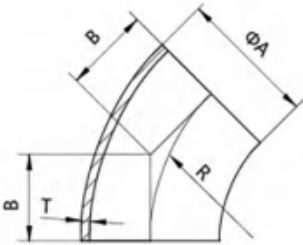
例 Example				
标准 Standard	规格 Size	金属材质 Steel material	表面处理 Surface quality	数量 Quantity
D.2WK-45°	DN40	304	2) 240 Grit	5000

卫生级管件
Sanitary Fittings

SMS

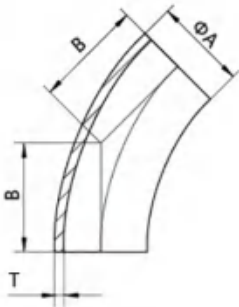
45°短弯头
45° Short elbow S.2WK-45°

Size	A	B	R	T
25	25	15.8	38.1	1.5
38	38	23.8	57.2	1.5
51	51	31.8	76.2	1.5
63.5	63.5	39.7	95.3	2.0
76	76.1	47.6	114.3	2.0
101.6	101.6	63.5	152.4	2.0



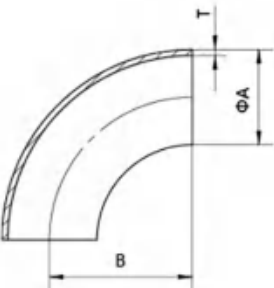
45°长弯头
45° long elbow S.L2WS-45°

Size	A	B	T
25	25	42.53	1.5
38	38	56.61	1.5
51	51	68.69	1.5
63.5	63.5	78.45	2.0
76	76.1	85.28	2.0
101.6	101.6	103.0	2.0



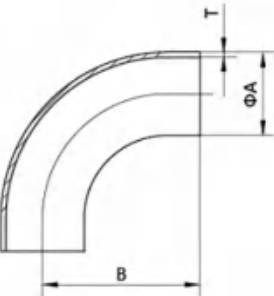
90°短弯头
90° Short elbow S.2WK-90°

Size	A	B	T
25	25	37.5	1.5
38	38	57.0	1.5
51	51	76.5	1.5
63.5	63.5	95.25	2.0
76	76.1	114.15	2.0
101.6	101.6	152.1	2.0



90°长弯头
90° long elbow S.L2WS-90°

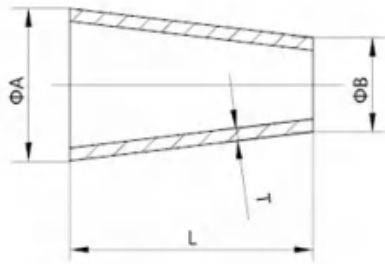
Size	A	B	T
25	25	52.5	1.5
38	38	72.0	1.5
51	51	91.5	1.5
63.5	63.5	113.25	2.0
76	76.1	132.15	2.0
101.6	101.6	172.1	2.0



卫生级管件 Sanitary Fittings

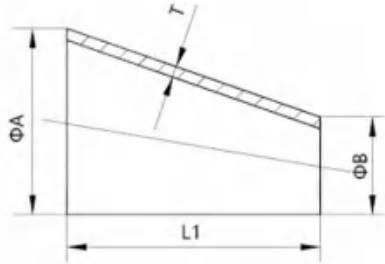
同心变径
Concentric reducer S.L31

Size	A	B	L	T
38×25	38	25	39	1.5
51×25	51	25	57	1.5
51×38	51	38	39	1.5
63.5×25	63.5	25	74	2.0
63.5×38	63.5	38	57	2.0
63.5×51	63.5	51	39	2.0
76×25	76.1	25	92	2.0
76×38	76.1	38	74	2.0
76×51	76.1	51	57	2.0
76×63.5	76.1	63.5	39	2.0
101.6×51	101.6	51	95	2.0
101.6×63.5	101.6	63.5	78	2.0
101.6×76	101.6	76	60	2.0



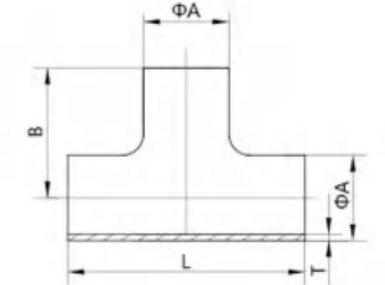
偏心变径
Eccentric reducer S.L32

Size	A	B	L1	T
38×25	38	25	46	1.5
51×25	51	25	68	1.5
51×38	51	38	47	1.5
63.5×25	63.5	25	92	2.0
63.5×38	63.5	38	70	2.0
63.5×51	63.5	51	44	2.0
76×25	76.1	25	117	2.0
76×38	76.1	38	92	2.0
76×51	76.1	51	68	2.0
76×63.5	76.1	63.5	47	2.0
101.6×51	101.6	51	117	2.0
101.6×63.5	101.6	63.5	94	2.0
101.6×76	101.6	76	74	2.0



等径三通
Equal diameter tee S.7W

Size	A	B	L	T
25	25	55	110	1.5
38	38	70	140	1.5
51	51	81	164	1.5
63.5	63.5	105	210	2.0
76	76.1	110	220	2.0
101.6	101.6	150	300	2.0

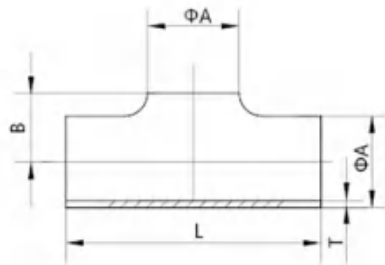


SMS

卫生级管件 Sanitary Fittings

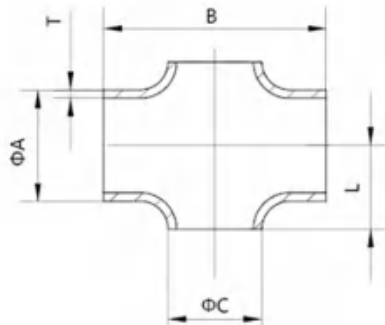
拉式等径三通
Pull type equal diameter tee S.L7WWW

Size	A	B	L	T
25	25	15	110	1.5
38	38	21	140	1.5
51	51	29	164	1.5
63.5	63.5	36	210	2.0
76	76.1	44	220	2.0
101.6	101.6	58	300	2.0



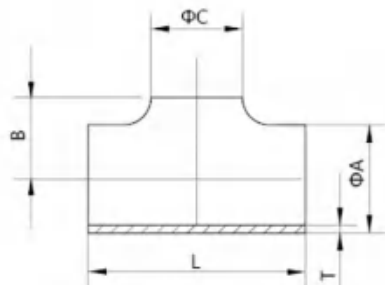
非直端变径四通
Non-straight end reducing cross S.9WWW

Size	A	B	C	L	T
38×25	38	140	25	21	1.5
51×25	51	164	25	29	1.5
51×38	51	164	38	29	1.5
63.5×25	63.5	210	25	36	2.0
63.5×38	63.5	210	38	36	2.0
63.5×51	63.5	210	51	36	2.0
76×25	76.1	220	25	44	2.0
76×38	76.1	220	38	44	2.0
76×51	76.1	220	51	44	2.0
76×63.5	76.1	220	63.5	44	2.0
101.6×25	101.6	300	25	58	2.0
101.6×38	101.6	300	38	58	2.0
101.6×51	101.6	300	51	58	2.0
101.6×63.5	101.6	300	63.5	58	2.0
101.6×76	101.6	300	76.1	58	2.0



非直端变径三通
Non-straight end reducing tee S.E57WWW

Size	A	B	C	L	T
38×25	38	21	25	140	1.5
51×25	51	29	25	164	1.5
51×38	51	29	38	164	1.5
63.5×25	63.5	36	25	210	2.0
63.5×38	63.5	36	38	210	2.0
63.5×51	63.5	36	51	210	2.0
76×25	76.1	44	25	220	2.0
76×38	76.1	44	38	220	2.0
76×51	76.1	44	51	220	2.0
76×63.5	76.1	44	63.5	220	2.0
101.6×25	101.6	58	25	300	2.0
101.6×38	101.6	58	38	300	2.0
101.6×51	101.6	58	51	300	2.0
101.6×63.5	101.6	58	63.5	300	2.0
101.6×76	101.6	58	76.1	300	2.0

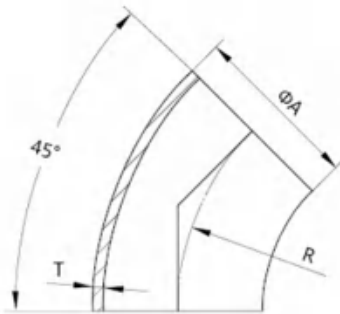


卫生级管件
Sanitary Fittings

DIN

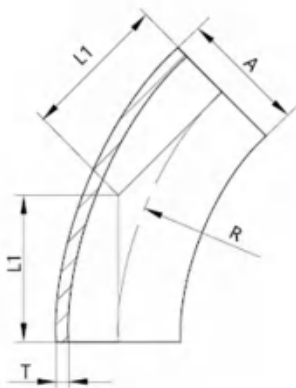
45°短弯头
45° Short elbow D.2WK-45°

DN	A	R	T
10	12/13	26	1.5
15	18/19	35	1.5
20	22/23	40	1.5
25	28/29	50	1.5
32	34/35	55	1.5
40	40/41	60	1.5
50	52/53	70	1.5
65	70	80	2.0
80	85	90	2.0
100	104	100	2.0
125	129	187.5	2.0
150	154	225	2.0
200	204	300	2.0



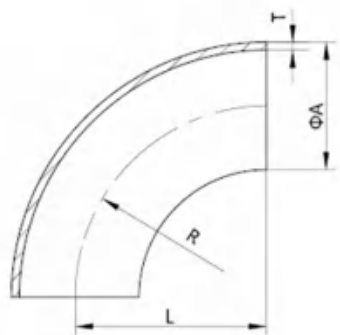
45°长弯头
45° long elbow D.L2WS-45°

DN	A	R	L	T
10	12/13	26	35.8	1.5
15	18/19	35	39.5	1.5
20	22/23	40	41.6	1.5
25	28/29	50	60.7	1.5
32	34/35	55	62.8	1.5
40	40/41	60	64.9	1.5
50	52/53	70	69	1.5
65	70	80	73.0	2.0
80	85	90	92.3	2.0
100	104	100	96.4	2.0
125	129	187.5	135.2	2.0



90°短弯头
90° Short elbow D.2WK-90°

DN	A	R	L	T
10	12/13	26	26	1.5
15	18/19	35	35	1.5
20	22/23	40	40	1.5
25	28/29	50	50	1.5
32	34/35	55	55	1.5
40	40/41	60	60	1.5
50	52/53	70	70	1.5
65	70	80	80	2.0
80	85	90	90	2.0
100	104	100	100	2.0
125	129	187.5	187.5	2.0
150	154	225	225	2.0
200	204	300	300	2.0

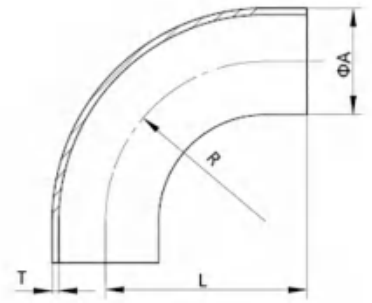


卫生级管件
Sanitary Fittings

DIN

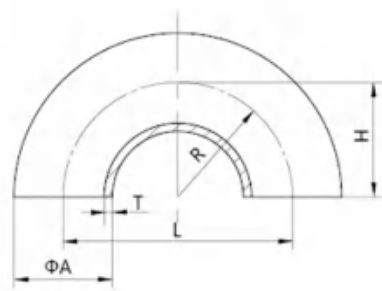
90°长弯头
90° long elbow D.L2WS-90°

DN	A	R	L	T
10	12/13	26	51	1.5
15	18/19	35	60	1.5
20	22/23	40	65	1.5
25	28/29	50	90	1.5
32	34/35	55	95	1.5
40	40/41	60	100	1.5
50	52/53	70	110	1.5
65	70	80	120	2.0
80	85	90	145	2.0
100	104	100	155	2.0
125	129	187.5	245	2.0



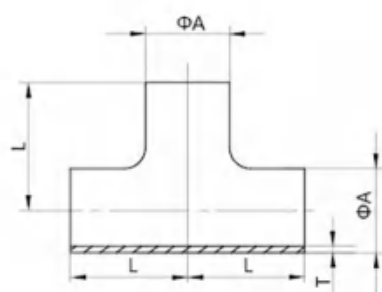
180°U型弯头
180°U-shaped elbow D.3WS-180°

DN	A	L	R	H	T
20	22/23	80	40	40	1.5
25	28/29	100	50	50	1.5
32	34/35	110	55	55	1.5
40	40/41	120	60	60	1.5
50	52/53	140	70	70	1.5
65	70	160	80	80	2.0
80	85	180	90	90	2.0
100	104	200	100	100	2.0
125	129	375	187.5	187.5	2.0
150	154	450	225	225	2.0



直端等径三通
Straight end equal diameter tee D.7W

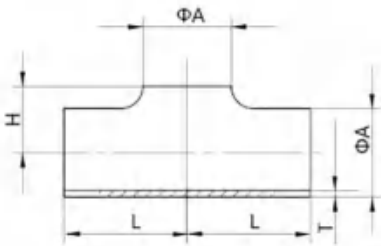
DN	A	L	T
10	12/13	35	1.5
15	18/19	35	1.5
20	22/23	40	1.5
25	28/29	50	1.5
32	34/35	55	1.5
40	40/41	60	1.5
50	52/53	70	1.5
65	70	80	2.0
80	85	90	2.0
100	104	100	2.0
125	129	187.5	2.0
150	154	225	2.0
200	204	300	2.0



卫生级管件 Sanitary Fittings

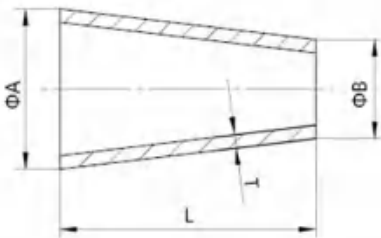
非直端等径三通
Non-straight end equal diameter tee D.ES7WWW

DN	A	L	H	T
10	12/13	35	9	1.5
15	18/19	35	11	1.5
20	22/23	40	13	1.5
25	28/29	50	16	1.5
32	34/35	55	19.5	1.5
40	40/41	60	23	1.5
50	52/53	70	30	1.5
65	70	80	40	2.0
80	85	90	47.5	2.0
100	104	100	58	2.0
125	129	187.5	74	2.0
150	154	225	90	2.0
200	204	300	115	2.0

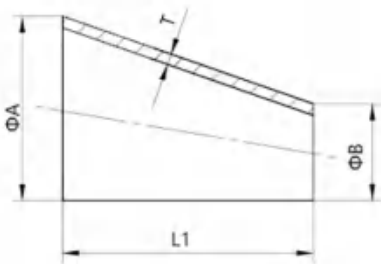


同心/偏心变径
Concentric/Eccentric reducer D.L31/32

DN	A	B	L	L1	T
15×10	18	12	11	16.5	1.5
20×10	22	12	18	27.5	1.5
20×15	22	18	7	11	1.5
25×10	28	12	28	44	1.5
25×15	28	18	18	27.5	1.5
25×20	28	22	23	16.5	1.5
32×15	34	18	30	44	1.5
32×20	34	22	22	33	1.5
32×25	34	28	11	14.5	1.5
40×20	40	22	33	49.5	1.5
40×25	40	28	22	33	1.5
40×32	40	34	11	16.5	1.5
50×25	52	28	44	66	1.5
50×32	52	34	33	49.5	1.5
50×40	52	40	22	33	1.5
65×32	70	34	62	92	2.0
65×40	70	40	51	77	2.0
65×50	70	52	29	44	2.0
80×40	85	40	78	97	2.0
80×50	85	52	56	85	2.0
80×65	85	70	27	41.2	2.0
100×50	104	52	90	137.5	2.0
100×65	104	70	64	93.5	2.0
100×80	104	85	34	52.5	2.0
125×65	129	70	96	138	2.0
125×80	129	85	79	121	2.0
125×100	129	104	45	68.5	2.0
150×80	154	85	90	110	2.0
150×100	154	104	66.5	90	2.0
150×125	154	129	45	68.5	2.0
200×150	204	154	68		2.0



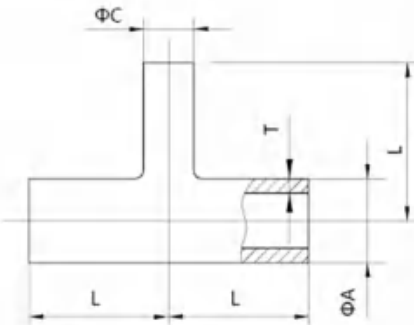
Concentric reducer D.L31



Eccentric reducer D.L32

卫生级管件 Sanitary Fittings

DIN



变径长三通
Variable diameter long tee D.L7RW

DN	A	C	L	T
25-20	28	22	50	1.5
32-25	34	28	55	1.5
40-25	40	28	60	1.5
40-32	40	34	60	1.5
50-25	52	28	70	2.0
50-32	52	34	70	2.0
50-40	52	40	70	2.0
65-25	70	28	80	2.0
65-32	70	34	80	2.0
65-40	70	40	80	2.0
65-50	70	52	80	2.0
80-25	85	28	90	2.0
80-32	85	34	90	2.0
80-40	85	40	90	2.0
80-50	85	52	90	2.0
80-65	85	70	90	2.0
100-25	104	28	100	2.0
100-32	104	34	100	2.0
100-40	104	40	100	2.0
100-50	104	52	100	2.0
100-65	104	70	100	2.0
100-80	104	85	100	2.0
125-25	129	28	187.5	2.0
125-32	129	34	187.5	2.0
125-40	129	40	187.5	2.0
125-50	129	52	187.5	2.0
125-65	129	70	187.5	2.0
125-80	129	85	187.5	2.0
125-100	129	104	187.5	2.0
150-32	154	34	225	2.0
150-40	154	40	225	2.0
150-50	154	52	225	2.0
150-65	154	70	225	2.0
150-80	154	85	225	2.0
150-100	154	104	225	2.0
150-125	154	129	225	2.0

变径短三通
Reduced diameter short tee D.RS7W

DN	A	C	L	L1	T
25-20	28	22	50	17	1.5
32-25	34	28	55	19.5	1.5
40-25	40	28	60	22.5	1.5
40-32	40	34	60	22.5	1.5
50-25	52	28	70	29.5	2.0
50-32	52	34	70	29.5	2.0
50-40	52	40	70	29.5	2.0
65-25	70	28	80	39	2.0
65-32	70	34	80	39	2.0
65-40	70	40	80	39	2.0
65-50	70	52	80	39	2.0
80-25	85	28	90	46.5	2.0
80-32	85	34	90	46.5	2.0
80-40	85	40	90	46.5	2.0
80-50	85	52	90	46.5	2.0
80-65	85	70	90	46.5	2.0
100-25	104	28	100	56	2.0
100-32	104	34	100	56	2.0
100-40	104	40	100	56	2.0
100-50	104	52	100	56	2.0
100-65	104	70	100	56	2.0
100-80	104	85	100	56	2.0
125-25	129	28	187.5	68.5	2.0
125-32	129	34	187.5	68.5	2.0
125-40	129	40	187.5	68.5	2.0
125-50	129	52	187.5	68.5	2.0
125-65	129	70	187.5	68.5	2.0
125-80	129	85	187.5	68.5	2.0
125-100	129	104	187.5	68.5	2.0
150-32	154	34	225	81	2.0
150-40	154	40	225	81	2.0
150-50	154	52	225	81	2.0
150-65	154	70	225	81	2.0
150-80	154	85	225	81	2.0
150-100	154	104	225	81	2.0
150-125	154	129	225	81	2.0

卫生级快装接头 Sanitary Quick Fittings

概述 Overview

沃托公司生产: DIN、SMS、3A、BS4825-3、ISO2852、ISO1127/GB 卫生级快装接头, 接毛坯全部由棒材锻制, CNC 数控精加工; 卡箍为精铸件。所有产品均可按客户要求加工不同的表面粗糙度。

所有金属材质均可提供 EN10204、3.1B 证书。

所有密封材质符合: FDA 177.2600。

Wotuo company produces: DIN, SMS, 3A, BS4825-3, ISO2852, ISO1127/GB sanitary quick-release joints, the connection blanks are all forged from bars, CNC numerical control finishing; the clamps are precision castings. All products can be processed with different surface roughness according to customer requirements.

All metal materials can provide EN10204, 3.1B certificate.

All sealing materials comply with: FDA 177.2600.



技术参数

Technical Data

标准 Standard	DIN, 3A, SMS, BS, ISO, GB
尺寸 Size	1" - 12" DN10-DN250 17.2-168.3
金属材质 Metal material	304, 304L, 316, 316L (锻造 Forging)
密封材质 Sealing material	NBR, Silicone, EPDM, FPM, PTFE
表面处理 Surface qualities	1.Ra≤1.6μm
	2.Ra≤0.8μm
	3.Ra≤0.4 (抛光 Polished)

产品订购

Ordering Specifications

指定: 标准
规格
金属材质
密封材质
表面处理
数量

Specify: 标准
Size
Steel material
Seal material
Surface quality
Quantity

例 Example					
标准 Standard	规格 Size	金属材质 Metal material	密封材质 Sealing material	表面处理 Surface quality	数量 Quantity
3A-14AMP	1.5"	304	/	1(Ra≤1.6)	200

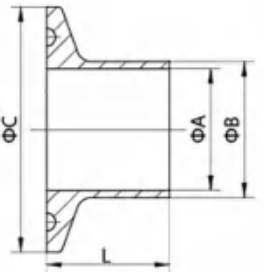
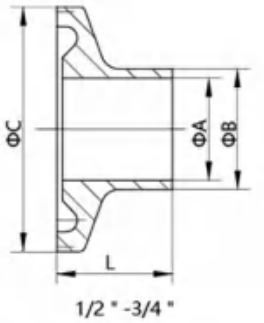
卫生级快装接头 Sanitary Quick Fittings

3A快装接头

3A quick connector

3A-14WMP/14MMP/14AMP

Size	A	B	C	L		
				14WMP	14MMP	14AMP
1/2"	9.4	12.7	25.2	12.7	21.5	28.6
3/4"	15.75	19.05	25.2	12.7	21.5	28.6
1"	22.2	25.4	50.5	12.7	21.5	28.6
1-1/2"	34.8	38.1	50.5	12.7	21.5	28.6
2"	47.5	50.8	64.0	12.7	21.5	28.6
2-1/2"	60.2	63.5	77.5	12.7	21.5	28.6
3"	72.9	76.2	91.0	12.7	21.5	28.6
4"	97.38	101.6	119.0	15.8	21.5	28.6
6"	146.86	152.4	166.8		21.5	28.6or38.1
8"	197.66	203.2	217.7		21.5	28.6or38.1
10"	247.2	254.0	268.5		21.5	28.6or38.1
12"	298	304.8	319.3		21.5	28.6or38.1

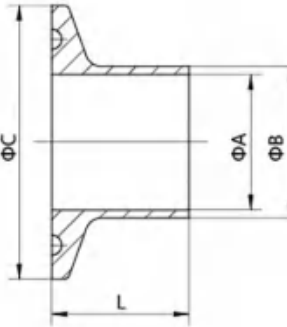


3A快装接头

3A quick connector

3A-14MPW

Size	A	B	C	L
1"	22.1	29.4	50.5	41.3
1-1/2"	34.8	42.5	50.5	41.3
2"	47.5	55.6	64.0	44.5
2-1/2"	60.2	68.7	77.5	44.5
3"	72.9	81.8	91.0	46
4"	97.38	108	119.0	54

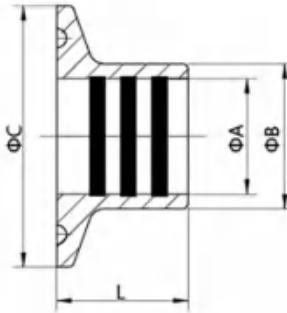


膨胀管接头

Expansion pipe joint

3A-14RMP

Size	A	B	C	L
1"	25.5	29.5	50.5	19.1
1 1/2"	38.2	42.6	50.5	28.6
2"	50.9	55.7	64.0	33.3
2 1/2"	63.6	68.8	77.5	34.9
3"	76.3	81.9	91.0	36.5
4"	101.7	108.1	119.0	38.1

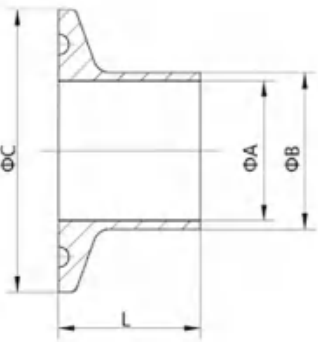


卫生级快装接头

Sanitary Quick Fittings

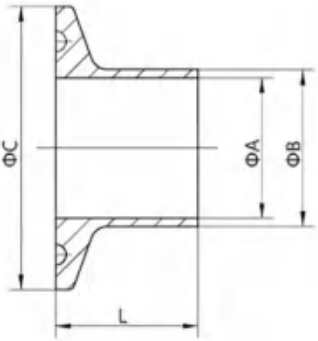
SMS 快装接头
SMS quick connector SMS-14WMP/14MMP/14AMP

Size	A	B	C	L		
				14WMP	14MMP	14AMP
25	22.5	25	50.5	12.7	21.5	28.6
32	29.5	32	50.5	12.7	21.5	28.6
38	35.5	38	50.5	12.7	21.5	28.6
51	48.5	51	64.0	12.7	21.5	28.6
63.5	60.3	63.5	77.5	12.7	21.5	28.6
76	72.9	76.1	91.0	12.7	21.5	28.6
101.6	97.6	101.6	119.0	15.8	21.5	28.6



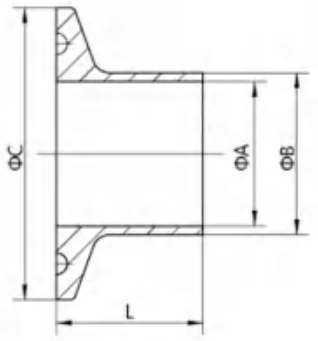
DIN 快装接头
DIN quick connector DIN-14WMP/14MMP/14AMP

Size	A	B	C	L		
				14WMP	14MMP	14AMP
10	9/10	12/13	34	12.7	21.5	28.6
15	15/16	18/19	34	12.7	21.5	28.6
20	19/20	22/23	34	12.7	21.5	28.6
25	25/26	28/29	50.5	12.7	21.5	28.6
32	31/32	34/35	50.5	12.7	21.5	28.6
40	37/38	40/41	50.5	12.7	21.5	28.6
50	49/50	52/53	64	12.7	21.5	28.6
65	66	70	91	12.7	21.5	28.6
80	81	85	106	12.7	21.5	28.6
100	100	104	119	15.8	21.5	28.6
125	125	129	155	15.8	21.5	28.6
150	150	154	183	15.8	21.5	28.6
200	200	204	233.5	15.8	21.5	28.6



快装接头
quick connector ISO-14WMP/14MMP/14AMP

Size	A	B	C	L		
				14WMP	14MMP	14AMP
10.2	7.0	10.2	34.0	12.7	21.5	28.6
13.5	10.3	13.5	34.0	12.7	21.5	28.6
17.2	14	17.2	34.0	12.7	21.5	28.6
21.3	18.1	21.3	34.0	12.7	21.5	28.6
26.9	23.7	26.9	50.5	12.7	21.5	28.6
33.7	29.7	33.7	50.5	12.7	21.5	28.6
42.4	38.4	42.4	50.5	12.7	21.5	28.6
48.3	44.3	48.3	64.0	12.7	21.5	28.6
60.3	56.3	60.3	77.5	12.7	21.5	28.6
76.1	71.5	76.1	91.0	12.7	21.5	28.6
88.9	84.3	88.9	106.0	12.7	21.5	28.6
114.3	109.1	114.3	130.0	15.8	21.5	28.6
139.7	134.5	139.7	155.0	15.8	21.5	28.6
168.3	163.1	168.3	183.0		21.5	28.6
219.1	213.9	219.1	233.5		21.5	28.6



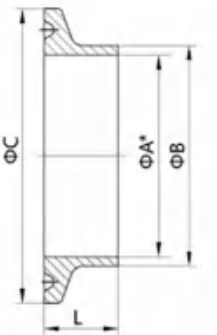
卫生级快装接头

Sanitary Quick Fittings

快装接头*
Quick connector* GB-14WMP/14MMP/14AMP

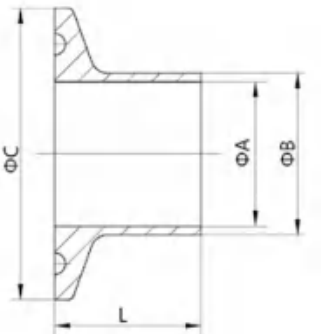
Size	A	B	C	L		
				14WMP	14MMP	14AMP
25	22	25	50.5	12.7	21.5	28.6
32	29	32	50.5	12.7	21.5	28.6
38	35	38	50.5	12.7	21.5	28.6
45	41	45	64	12.7	21.5	28.6
57	53	57	77.5	12.7	21.5	28.6
76	72	76	91	12.7	21.5	28.6
89	85	89	106	12.7	21.5	28.6
108	104	108	119	15.8	21.5	28.6

*可制造GB/T 17395 标准快装接头
*Produce ferrule according to GB/T 17395 Standard



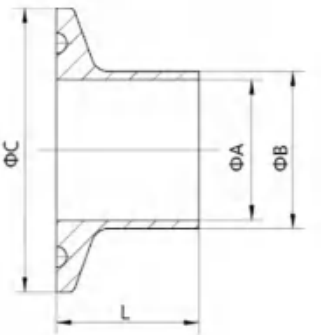
ISO2852 快装接头
ISO2852 quick connector ISO2852-14WMP/14MMP/14AMP

Size	A	B	C	L		
				14WMP	14MMP	14AMP
25	22.6	25.6	50.5	12.7	21.5	28.6
33.7	30.7	33.7	50.5	12.7	21.5	28.6
38	35.6	38.6	50.5	12.7	21.5	28.6
40	37.6	40.6	64	12.7	21.5	28.6
51	48.6	51.6	64	12.7	21.5	28.6
63.5	60.3	63.5	77.5	12.7	21.5	28.6
70	66.8	70.6	91	12.7	21.5	28.6
76.1	72.9	76.7	91	12.7	21.5	28.6
88.9	84.9	89.8	106	12.7	21.5	28.6



BS 快装接头
BS quick connector BS-14WMP/14MMP/14AMP

Size	A	B	C	L		
				14WMP	14MMP	14AMP
25.4	22.2	25.4	50.5	12.7	21.5	28.6
38.1	34.9	38.1	50.5	12.7	21.5	28.6
50.8	47.6	50.8	64.0	12.7	21.5	28.6
63.5	60.3	63.5	77.5	12.7	21.5	28.6
76.2	73	76.2	91.0	12.7	21.5	28.6
101.6	97.6	101.6	119.0	12.7	21.5	28.6



各类密封材质最主要特性
The Main Characteristic of The Kings of Sealing Materilas

三元乙丙橡胶 (EPDM)

EPDM橡胶对大部分食品都稳定，因此广泛用于食品工业。另一个优点是它可以使用的推荐温度为140°C (244°F)，但也存在一个极限，EPDM不耐有机油、无机油和脂肪，但耐臭氧性极优。

硅橡胶 (VMQ)

硅橡胶最显著的品质特点是它能够应用的温度为-50°C (-58°F) 到大约+180°C (356°F)，而且仍然能够保持弹性。化学稳定性仍可满足大多数产品的要求，但是，纯碱液和酸以及热水和蒸汽可能会损坏硅橡胶，耐臭氧性好。

丁腈橡胶 (NBR)

NBR是一种经常用于技术用途的橡胶类型。它对大多数碳氢化合物（例如：油、油脂和脂肪）都非常稳定，对于稀碱和硝酸也十分稳定，它可以使用的推荐最高温度是95°C (203°F)。由于NBR会被臭氧破坏，因此它不能暴露于紫外线下，应该避光保存。

氟化橡胶 (FPM)

在其它类型的橡胶不适合时，尤其是在高达180°C (356°F) 的高温时，通常会使用FPM。对于大多数产品的化学稳定性都很好，但是应该避免热水、蒸汽、碱液、酸和酒精，耐臭氧性好。

聚四氟乙烯 (PTFE)

PTFE具有优良的化学稳定性、耐腐蚀性(是当今世界上耐腐蚀性能最佳材料之一，除熔融的碱金属外，聚四氟乙烯几乎不受任何化学试剂腐蚀)。例如在浓硫酸、硝酸、盐酸、酒精，甚至在王水中煮沸，其重量及性能均无变化工作温度：-25°C至250°C。

Ethylene Propylene Rubber (EPDM)

EPDM rubber is stable to most foods, so it is widely used in the food industry. Another advantage is that it can be used at a recommended temperature of 140°C (244°F), but there is a limit. EPDM is not resistant to organic, non-oil and fat, but excellent ozone resistance.

Silicone Rubber (VMQ)

The most notable quality characteristic of silicone rubber is that it can be applied at temperatures from -50°C (-58°F) to approximately +180°C (356°F) and still retain its elasticity. Chemical stability is still acceptable for most products, however, soda ash and acids as well as hot water and steam can damage silicone rubber, good ozone resistance.

Acrylonitrile Butadiene Rubber (NBR)

NBR is a type of rubber often used for technical purposes. It is very stable to most hydrocarbons such as oils, greases and fats, and to dilute alkalis and nitric acid, and its recommended maximum temperature for use is 95°C (203°F). Since NBR is destroyed by ozone, it cannot be exposed to UV light and should be stored in the dark.

Fluorine Rubber(FPM)

FPM is often used when other types of rubber are not suitable, especially at high temperatures up to 180°C (356°F). Good chemical stability for most products, but should avoid hot water, steam, lye, acid and alcohol, good ozone resistance.

Polytetrafluoroethy(PTFE)

PTFE has excellent chemical stability and corrosion resistance (it is one of the best corrosion resistance materials in the world today, except for molten alkali metals, PTFE is hardly corroded by any chemical reagents). For example, it is boiled in concentrated sulfuric acid, nitric acid, hydrochloric acid, alcohol, or even in aqua regia, and its weight and performance are unchanged. Working temperature: -25°C to 250°C.

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			
		C	Si	Mn	P	S	Cr	Mo	Ni	屈服强度 σ ₂ (Mpa)≥	抗拉强度 ob(Mpa)≥	延伸率 δ5 %	硬度HB≤
	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
	316	0.08	1.0	2.0	0.035	0.030	16.0-18.5	2.0-3.0	10-14	205	520	40	187
	316L	0.03	1.0	2.0	0.035	0.030	16.0-18.0	2.0-3.0	12-15	177	480	40	187

美国 (ASTM)	钢种	碳 ≤	硅 ≤	锰 ≤	磷 ≤	硫 ≤	铬	钼	镍	力学性能			
		C	Si	Mn	P	S	Cr	Mo	Ni	屈服强度 σ ₂ (Mpa)≥	抗拉强度 ob(Mpa)≥	延伸率 δ5 %	硬度HB≤
	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
	TP316	0.08	0.75	2.0	0.040	0.030	16.0-18.0	2.0-2.5	10-14	205	515	35	187
	TP316L	0.035	0.75	2.0	0.040	0.030	16.0-18.0	2.0-2.5	12-15	170	485	35	187

营销网络
Marketing Network



沃托领先于其它同行的地方在于我们产品的广泛应用。我们能提供针对客户不同工序设计的部件，除了阀门外，我们供应的卫生产品还包括管件、管道连接件、过滤器、视镜、清洗球及非标管件等。

WOTUO'S feature lies in its wide product application. We can provide products according to your different designs of components. In addition to valves, we supply sanitary products including pipe fittings, pipe, filter, sight glass, cleaning ball and non-standard pipe fittings etc.

沃托能为您提供符合所有技术要求的原材料。
以下是我们主要的原材料。如果您有其它需要，请向我们咨询。

代号 Desication	材料 MATERIAL	主要基础材料	耐温性能(°C)	适用范围
FKM	氟橡胶 Fluorocarton	丁腈橡胶NBR	-25至+100	液压油，脂肪油，碳氢化合物润滑油，动植物油，水，丁烷，压缩气体等。
NBR	丁腈橡胶 Nitrile	氟橡胶FKM	-15至+240	适用油料，臭氧，恶劣天气，液压流体，化学溶剂，不易燃的油料和化学产品等。
EPDM	三元乙丙橡胶 Ethylene-propylene diene monomer	硅橡胶VMQ	-60至+250	低温或高温，氧气，惰性气体，酸和弱碱，臭氧，绝缘性能良好。
HNBR	氢化丁腈橡胶 Hydrogenated Nitrile	三元乙丙橡胶 EPDM -硫化处理 -过氧化氢处理	-45至+110 -45至150	适用于食品(过氧化物): 水，饮料，臭氧，恶劣天气，不易燃的液体，蒸汽，各种酸，氢氧化钠，乙二醇等
MVQ	硅胶 Silicone	氯丁橡胶CR	-35至+100	气体，臭氧，温度低于80°C的水，植物油，氧气，氢氧化钠，恶劣天气，氯，脂肪类醇，制冷气体，食品加工，二氧化碳
PU	聚氨酯 Polyurethane	聚四氟乙烯PTFE	-150至+260	耐腐蚀性好，高绝缘性，摩擦系数低
PU-THP	/	氢化丁腈橡胶HNBR	-35至+150	臭氧，紫外线，热水，含硫油料
PA	聚酰胺 Polyamide	FFKM全氟橡胶	-15至+250	几乎能应对所有化学腐蚀。绝佳的耐温性。能应对各种大气介质及臭氧。高温下仍能保持良好的密封性。这些优点都能使维修成本降低。
PE	聚乙烯 polyethylene	FVMQ氟硅橡胶	-60至+180	比硅橡胶更能应对在合成矿物油中的膨胀问题。

