

QIMING

温州启明不锈钢有限公司

VACUUM VALVES VACUUM FITTINGS

真空阀门管道配件

2024



ABOUT QIMING

公司介绍

Wenzhou QiMing Stainless Co., Ltd. was founded in 2015, located in Wenzhou city providing a wide range of stainless steel valves and fittings for food, dairy, beverage, cosmetic, wine industries, semiconductor, LCD, solar energy, lithium technology, photovoltaic and other high-tech industries.

QiMing mainly manufacture and export SS valves and fittings including Butterfly Valve, Ball Valve, Check Valve, Angle Valve, Vacuum Valves, Tri Clamp Fittings, Weld Fittings, KF/NW flanges, ISO Flanges and CF Flanges.

QiMing has Mazak CNC, Milling CNC, handheld spectrometer, helium mass spectrometer leak detection, roughness tester and others.

With more than 10 years development, QiMing gets 3A certificate and ISO9001:2008.

QiMing's main market is European, USA, Korea, Japan and so on.

QiMing's goal: Innovation, Dedication, Service, Win-Win.

温州启明不锈钢有限公司成立于2015年，位于温州市，为食品、乳品、饮料、化妆品、葡萄酒行业、半导体、液晶、太阳能、锂电、光伏等高科技行业提供各种不锈钢阀门及管道配件。

启明主要生产和出口不锈钢阀门及配件，包括蝶阀、球阀、止回阀、角阀、真空阀、卡箍管件、焊接管件、KF/NW法兰、ISO法兰和CF法兰。

启明拥有马扎克数控车床、加工中心、手持式光谱仪、氦质谱仪检漏、粗糙度测试仪等制作和检验设备。

经过十多年的发展，启明已通过了ISO9001:2008质量管理体系认证和美国3A证书。

启明的主要市场是欧洲、美国、韩国、日本等。

启明宗旨：创新、敬业、服务、共赢



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EQUIPMENT & TESTING

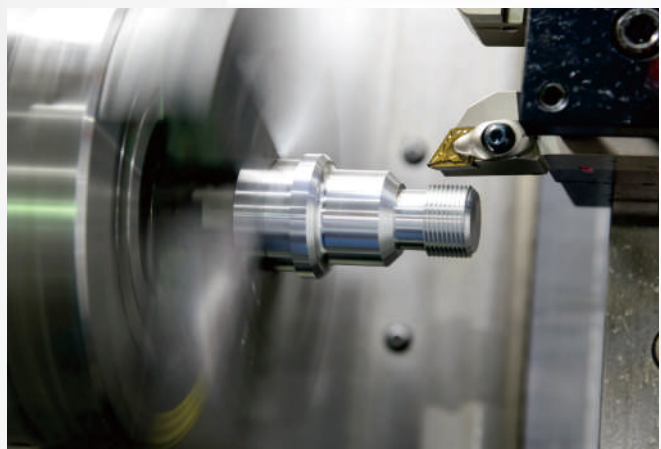
制造与检验



精工细作
制造卓越的产品

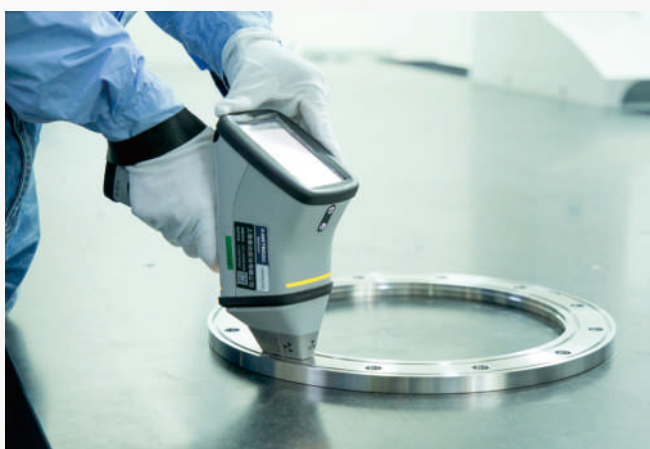
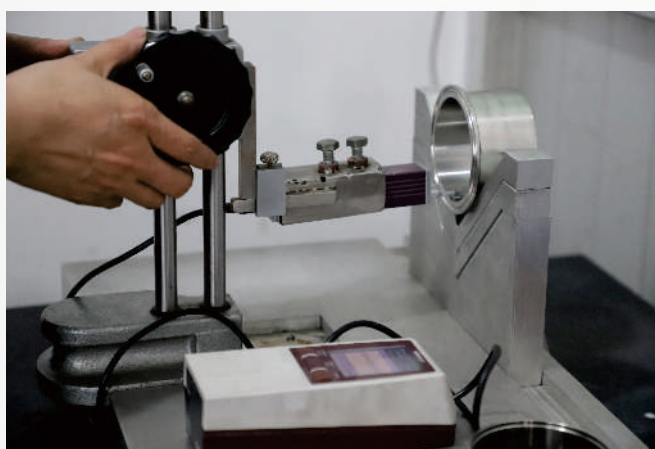


匠心精心
铸就电气精品



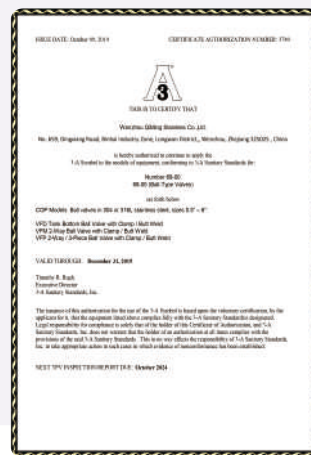
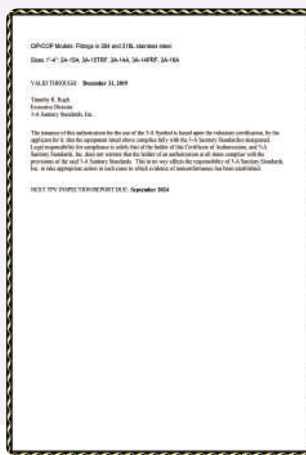
公司拥有国内先进的流水线和检测设备，严格按照国家标准和国际标准组织生产，从原材料购进到成品出库实行全过程控制，持续改进生产体系，提供用户满意产品。

QiMing has advanced CNC machineries, CNC centers and Testing Equipment, ISO9000 Certificated and all raw materials are traceable



CERTIFICATE

证书



OUR MARKET

全球销售网络



产品远销韩国，美国，英国，意大利，法国，荷兰，芬兰，俄罗斯，白俄罗斯，泰国，加拿大，墨西哥，澳大利亚，德国，西班牙，马来西亚，新加坡，越南，印度尼西亚，印度，菲律宾，日本，巴拉圭，巴西，智利，秘鲁等多个国家。

Our products are exported to many countries, including South Korea, the United States, the United Kingdom, Italy, France, the Netherlands, Finland, Russia, Belarus, Thailand, Canada, Mexico, Australia, Germany, Spain, Malaysia, Singapore, Vietnam, Indonesia, India, the Philippines, Japan, Paraguay, Brazil, Chile, Peru, and more.

■ KF FLANGE SERIES

KF接头系列



■ Applications/应用

KF flanges are a sexless design made from 304 stainless, they can be used in a wide range of applications including:

- * Roughing and foreline plumbing
- * Small pipe systems
- * Systems need frequent cleaning or modification
- * Research and teaching laboratories

KF法兰是由不锈钢304制成, 可用于各种各样的应用, 包括:

- * 前端管道
- * 小规格管道系统
- * 需要经常清洗或更改的管道系统
- * 研究和教学实验室

■ Material and Size/材质和尺寸

- * Flanges, Blanks, Fittings: Stainless Steel 304, 316L or Aluminum
- * Clamps: Aluminum or Stainless Steel 304
- * O-Ring: Viton/NBR/EPDM
- * Size: KF10-KF50 (See Figure 1)

- * 法兰, 盲板, 接头: SS304/SS316L/铝
- * 卡箍: 铝/SS304
- * O形圈: 氟橡胶/丁腈/三元乙丙
- * 规格: KF10-KF50 (具体见图1)

■ Vacuum Range/真空度

Elastomer Seal: $\geq 1 \times 10^{-8}$ Torr

■ Temperature Range/温度

Viton: -50°C to 200°C

NBR: -20°C to 80°C



■ Installation/安装

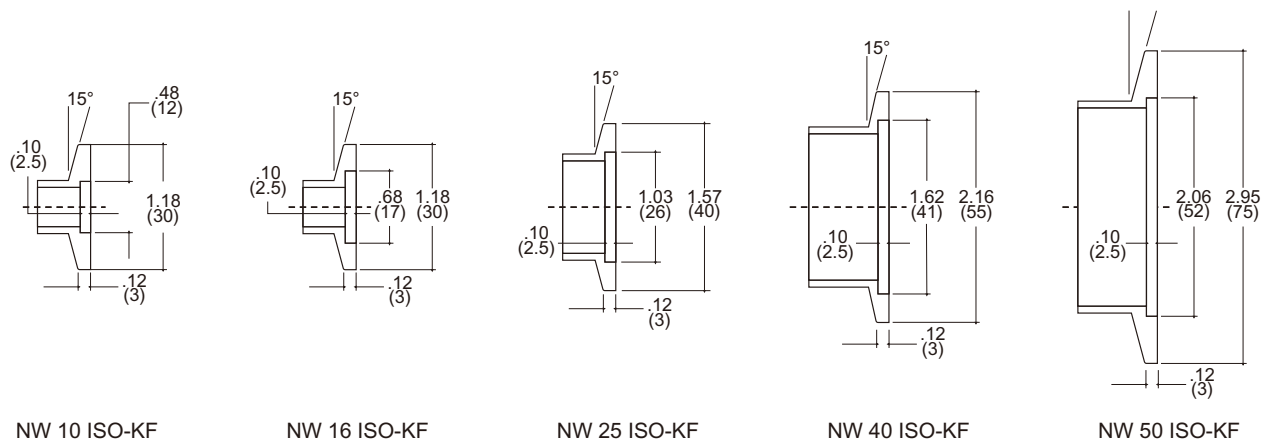


Figure 1/图1

The ISO-KF components are assembled by inserting a centering ring between the two flange faces, then securing the assembly with a flange encompassing clamp (see Figure 2)

ISO-KF 组件的组装通常是将一个中心支架带O型圈放在两个法兰的密封面之间，然后再用卡箍紧固。

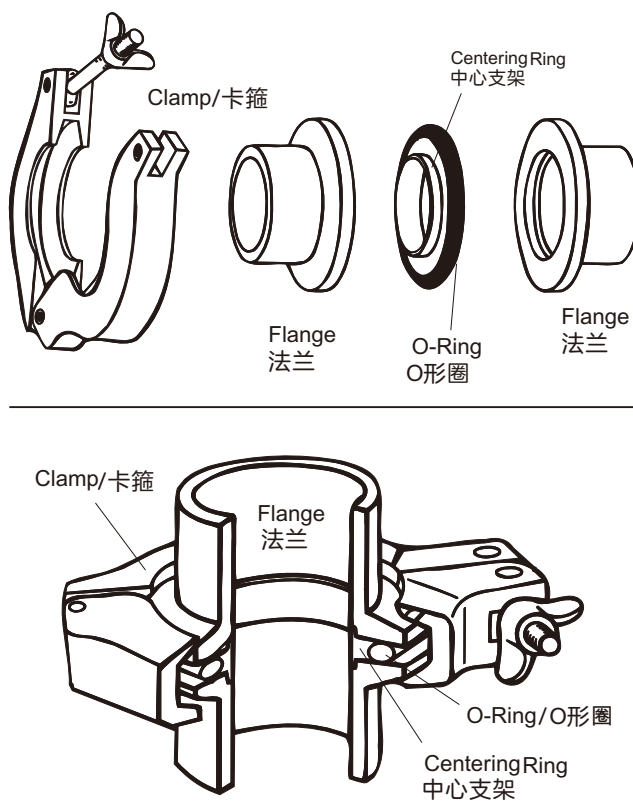


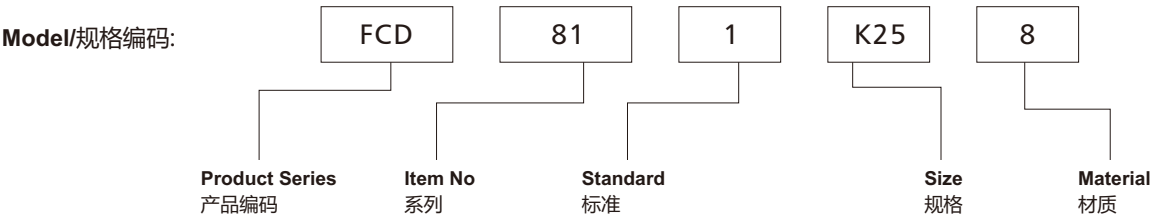
Figure 2-Component Assembly

■ ORDERING INFORMATION

下单信息

Product Series 产品编码	FLW	Half Nipple/KF对焊接头	Item No/系列	01	Model No. 01
	FLD	Socket Weld Flange/KF插焊接头		02	Model No. 02
	FLG	Center Ring&Outer Ring/支架外环		81	Model No. 81
	FLH	Hose Adaptor/皮管接头		82	Model No. 82
	FLF	KF Female Adaptor/KF内丝			
	FLM	KF Male Adaptor/KF六角外丝	Tube Standard 管外径标准	1	3A
	FBA	Bored Blank Flange/内焊法兰		2	DN
	FBB	KF & ISO Blank Flange/盲板	Thread Standard 螺纹标准	1	BSPT
	FBC	Stub Blank Flange/盲接头		2	NPT
	FCD	KF Double Pin Clamp/KF双销卡箍		3	BSP/G
	FCC	KF Single Pin Clamp/KF单销卡箍		M	Metric Thread/公制
	FCR	KF Machined Clamp/KF高强度卡箍	Size/规格	K10	KF10
	FCN	SS Chain Clamp/不锈钢链条卡箍		...	...
	FCP	Aluminum Chain Clamp/铝链条卡箍		K100	KF100
	FCT	KF 3-Pieces Clamp/KF三节卡箍		F16	CF16
	FCE	ISO Single Wall Clamp/ISO单边C型卡钳		...	...
	FCF	ISO Double Wall Clamp/ISO双边C型卡钳		F300	CF300
	FCG	ISO Double Claw Clamp/ISO 钩头螺栓		S63	ISO63
	GBF	CF Blanker Fixed/CF盲板		...	...
	GBR	CF Blanker Rotatable/CF活套盲板	O-Ring Material O形圈材质	S160	ISO160
	GWF	CF Bored Flanges/CF内焊法兰		3	Viton/FKM/氟橡胶
	GWR	CF Bored Flanges Rotatable/CF活套内焊法兰	Material/材质	4	NBR/丁腈
	FEK/FES/FEG	KF/ISO/CF Elbow/ 弯头		4	Stainless Steel 304/不锈钢304
	FTK/FTS/FTG	KF/ISO/CF Tee/ 三通		6	Stainless Steel 316L/不锈钢316L
	FXK/FXS/FXG	KF/ISO/CF Cross/ 四通,六通		7	Zinc Plated/镀锌
	FRK/FRS/FRG	KF/ISO/CF Reducing Adaptor/大小头		8	Aluminum/铝
	SFR	O Ring/O形圈		9	Copper/铜
	SGC	CF Copper Seal/CF铜垫			

Example/举例:



Example/举例:Aluminum Double Pin Clamp, KF25
铝双销卡箍 KF25

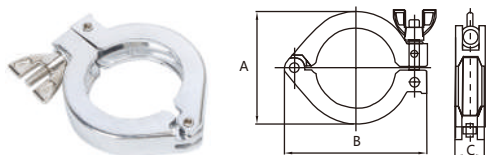




KF Single Pin Clamp/KF单销卡箍

* Material: Aluminum

* 材质: 铝

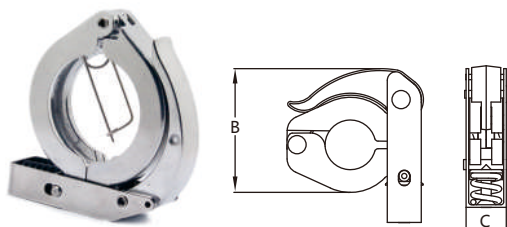


Model for Alu	Size	A/mm	B/mm	N.W./g	Pcs/CTN
FCC811K168	KF10-KF16	42.5	63	62.1	300
FCC811K258	KF25	54	72	73.8	250
FCC811K408	KF40	70	90	95.5	160
FCC811K508	KF50	90	114	156.5	100

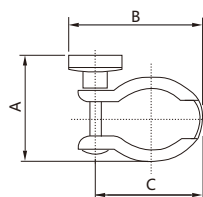
Toggle Clamps with Lanyard/KF单销卡箍带锁扣

* Material: Aluminum

* 材质: 铝



Model for Alu	Size	B/mm	C/mm	N.W./g
FCC821K168	KF10-KF16	52	16.5	103
FCC821K258	KF25	60	17.5	122
FCC821K408	KF40	80	17.5	156.5
FCC821K508	KF50	102	20.5	266.5



KF Spring Clamp/KF弹簧卡箍

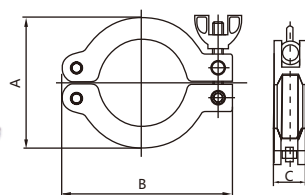
* Material:SS304+ABS

* 材质:不锈钢304+ABS

Model for 304	Size	A/mm	B/mm	C/mm	N.W./g
FCC841K164N1S1	KF10-KF16	52	54	42	28
FCC841K254N1S1	KF25	54	62	51	30.5
FCC841K404N1S1	KF40	72	74	63	38.5
FCC841K504N1S1	KF50	87	97	82	51.5



Aluminum
铝



SS304

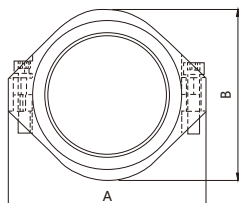
KF Double Pin Clamp/KF双销卡箍

* Material:Aluminum/SS304

* 材质:铝/SS304

Model for Alu	Size	A/mm	B/mm	C/mm	N.W./g	Pcs/CTN
FCD811K168	KF10-KF16	42.5	63	16.5	63	300
FCD811K258	KF25	54	72	17	76	250
FCD811K408	KF40	72	90	17.5	98	160
FCD811K508	KF50	92	114	20.5	176	100

Model for 304	Size	A/mm	B/mm	C/mm	N.W./g	Pcs/CTN
FCD811K164	KF10-KF16	39	64	16	138	150
FCD811K254	KF25	49.6	76.7	16	160	120
FCD811K404	KF40	65.2	95.4	16	194	80
FCD811K504	KF50	83.5	122.9	19.6	398	50
FCD811K634	KF63	96.2	135	19.6	458	

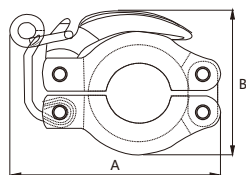


KF Clamping Ring FL Massiv/KF双向卡箍

* Material:SS304

* 材质:不锈钢304

Model for 304	Size	A/mm	B/mm	N.W./g
FCD831K164	KF10-KF16	56	44	160
FCD831K254	KF25	67	54	187
FCD831K404	KF40	84.5	67.5	251
FCD831K504	KF50	114	90	530



KF Quick Clamping Ring/KF快开卡箍

* Material:Aluminum

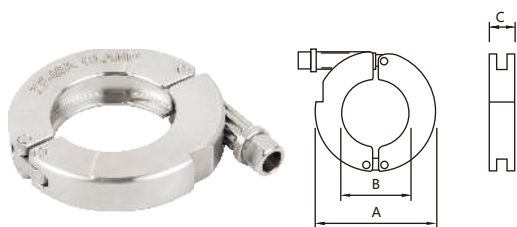
* 材质:铝

Model for Alu	Size	A/mm	B/mm	N.W./g
FCD841K168	KF10-KF16	71	53	
FCD841K258	KF25	81	61	
FCD841K408	KF40	99	78	

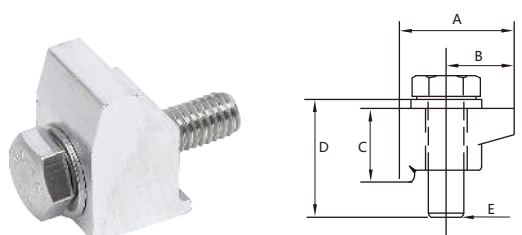
KF High Tension Clamp/KF高强度精车卡箍

* Material:SS304

* 材质:SS304



Model for 304	Size	A/mm	B/mm	C/mm	N.W./g
FCR811K164	KF16	62	22.5	17	312
FCR811K254	KF25	67.5	31.5	17	313
FCR811K404	KF40	83.5	46.5	17	415
FCR811K504	KF50	104.5	67	17	549

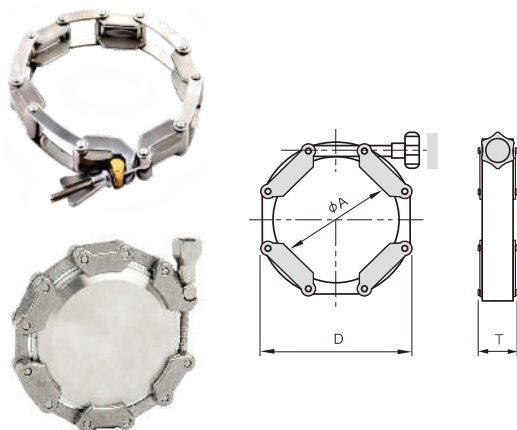


ISO-KF Single Clamp/ISO-KF压块

* Material:Aluminum

* 材质:铝

Model for Alu	Size	A/mm	B/mm	C/mm	D/mm	E	N.W./g
FCE81M68	KF10-50	20	11.5	14	25	M6	14



KF SS Chain Clamp/KF不锈钢链条卡箍

* Material:SS304

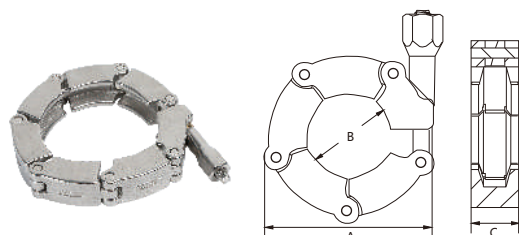
* 材质:SS304

Model for 304	Size	A/mm	D/mm	T/mm	N.W./g
FCN811K164	KF16	22	60	20	200
FCN811K254	KF25	32	70	20	205
FCN811K404	KF40	47	85	20	258
FCN811K504	KF50	67	105	20	317
FCN811K634	KF63	79	120	20	370
FCN811K804	KF80	99.8	165	31	680
FCN811K1004	KF100	120.7	185	31	700
FCN811K1604	KF160	177.5	235	31	845

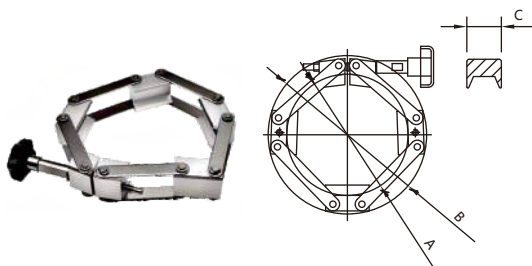
KF Chain Clamp/KF链条卡箍

* Material:SS316L

* 材质:SS316L



Model for SS316L	Size	A/mm	B/mm	C/mm	N.W./g
FCN831K166	KF16	55	23	18	208
FCN831K256	KF25	59	33	18.5	259.5
FCN831K406	KF40	80	45	20	382
FCN831K506	KF50	92	64	20	447

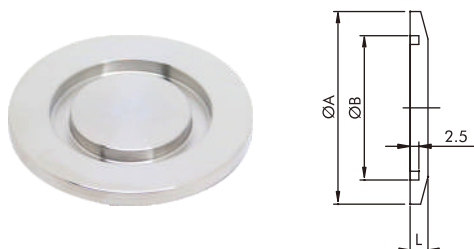


KF Aluminum Chain Clamp/KF铝链条卡箍

* Material: Aluminum

* 材质: 铝

Model for Alu	Size	A/mm	B/mm	C/mm	N.W./g
FCP811K808	KF80	117	153	30	446
FCP811K1008	KF100	136.5	171.7	30	531.5
FCP811K1608	KF160	198.9	231.7	30	587

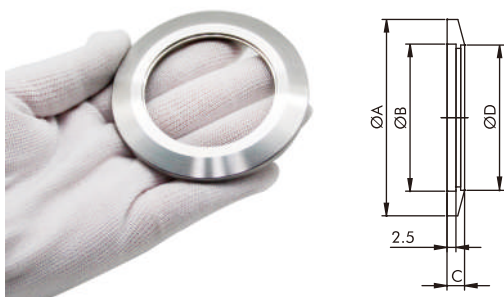


Blank Flange/盲板

* Material: 304/316L/Aluminium

* 材质: SS304/316L/铝

Model	Material	Size	A/mm	B/mm	L/mm	N.W./g
FBB811K104	SS304	KF10	30	12.2	5	21.5
FBB811K164	SS304	KF16	30	17.2	5	21.5
FBB811K254	SS304	KF25	40	26.2	5	41.5
FBB811K404	SS304	KF40	55	41.2	5	77.5
FBB811K504	SS304	KF50	75	52.2	5	161.2
FBB811K634	SS304	KF63	87	70	5	198.2
FBB811K804	SS304	KF80	114	83	12	876.7
FBB811K1004	SS304	KF100	134	102	12	1227.8
FBB811K1604	SS304	KF160	190	153	12	2517
FBB811K108	Alu/铝	KF10	30	12.2	5	7.5
FBB811K168	Alu/铝	KF16	30	17.2	5	7.5
FBB811K258	Alu/铝	KF25	40	26.2	5	13
FBB811K408	Alu/铝	KF40	55	41.2	5	26
FBB811K508	Alu/铝	KF50	75	52.2	5	60



Bored Blank Flange/通孔盲板

* Material: 304/316L

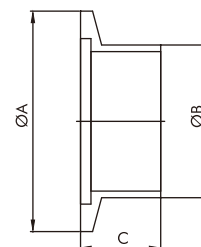
* 材质: 304/316L

Model for 304	Size	A/mm	B/mm	C/mm	D/mm	For Tube OD	N.W./g
FBA811K100504S1	KF10	30	12.2	5	12.9	1/2"	
FBA811K160754S1	KF16	30	17.2	5	19.3	3/4"	15
FBA811K251004S1	KF25	40	26.2	5	25.7	1"	25
FBA811K401504S1	KF40	55	41.2	5	38.4	1 1/2"	
FBA811K502004S1	KF50	75	52.2	5	51	2"	85
FBA811K632504S1	KF63	87	70	5	63.7	2 1/2"	
FBA811K803004S1	KF80	114	83	12	76.4	3"	
FBA811K1004004S1	KF100	134	102	12	101.8	4"	
FBA811K1606004S1	KF160	190	153	12	152.9	6"	
FBA812K10D144S1	KF10	30	17.2	5	14.2	14mm	
FBA812K16D204S1	KF16	30	17.2	5	20.3	20mm	15
FBA812K25D284S1	KF25	40	26.2	5	28.3	28mm	23
FBA812K40D454S1	KF40	55	41.2	5	44.8	44.5mm	
FBA812K50D574S1	KF50	75	52.2	5	57.4	57mm	78
FBA812K80D894S1	KF80	114	83	12	90.2	89mm	
FBA812K100D1084S1	KF100	134	102	12	108.3	108mm	
FBA812K160D1594S1	KF160	190	153	12	159.2	159mm	

Half Nipple Weld Flange/对焊接头

* Material:SS304/SS316L

* 材质:SS304/SS316L

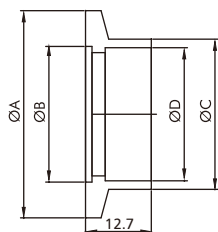


Model for 304 with C/mm				Size 规格	A/mm	B/mm	Thickness 厚度	N.W/g			
20	30	40	70					20	30	40	70
FLW821K100504	FLW831K100504	FLW841K100504	FLW871K100504	KF10	30	12.7	1.65				
FLW821K160754	FLW831K160754	FLW841K160754	FLW871K160754	KF16	30	19.1	1.65	25	32	40	47
FLW821K251004	FLW831K251004	FLW841K251004	FLW871K251004	KF25	40	25.4	1.65	37.5	51	59	71
FLW821K401504	FLW831K401504	FLW841K401504	FLW871K401504	KF40	55	38.1	1.65	59.3	81	94	112
FLW821K502004	FLW831K502004	FLW841K502004	FLW871K502004	KF50	75	50.8	1.65	121	144	156.7	189
FLW822K10D144	FLW832K10D144	FLW842K10D144	FLW872K10D144	KF10	30	14	2	28			
FLW822K16D204	FLW832K16D204	FLW842K16D204	FLW872K16D204	KF16	30	20	2	25	32	40	47
FLW822K25D284	FLW832K25D284	FLW842K25D284	FLW872K25D284	KF25	40	28	2	37	46.7	60	70
FLW822K40D454	FLW832K40D454	FLW842K40D454	FLW872K40D454	KF40	55	44.5	2.5	73.5	104	132	157
FLW822K50D544	FLW832K50D544	FLW842K50D544	FLW872K50D544	KF50	75	54	2	129	155	180	203
FLW822K50D574	FLW832K50D574	FLW842K50D574	FLW872K50D574	KF50	75	57	3.5	159	205	254	292

Socket Weld Flange/插焊接头

* Material:SS304/SS316L

* 材质:SS304/SS316L

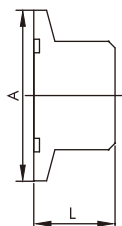


Model for 304	Size	A/mm	B/mm	C/mm	D/mm	N.W/g
FLD811K100504	KF10	30	12.2	16.5	13	
FLD811K160754	KF16	30	17.2	22.1	19.3	21.2
FLD811K251004	KF25	40	26.2	28.7	25.7	33.8
FLD811K401504	KF40	55	41.2	44.5	38.4	64
FLD811K502004	KF50	75	52.2	57.2	51.1	116.6
FLD811K632504	KF63	87	70	67.5	63.7	

Stub Blank Flange/盲接头

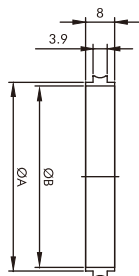
* Material:SS304/SS316L

* 材质:SS304/SS316L



Model for 304	Size	A/mm	L/mm	N.W/g
FBC811K104	KF10	30	19.05	
FBC811K164	KF16	30	19.05	
FBC811K254	KF25	40	19.05	
FBC811K404	KF40	55	25.4	
FBC811K504	KF50	75	25.4	



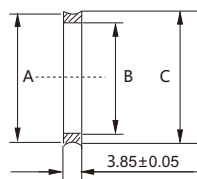


Center Ring/中心支架

* Material: SS304/SS316L/Aluminum

* 材质: SS304/SS316L/铝

Model for 304	Size	A/mm	B/mm	N.W./g
FLG81N1K104	KF10	12	10	
FLG81N1K164	KF16	17	16	3.7
FLG81N1K254	KF25	26	25	6.4
FLG81N1K404	KF40	41	40	9.4
FLG81N1K504	KF50	52	50	20

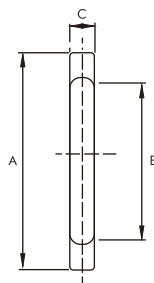


KF Trapped Centering Ring/KF平支架

* Material: SS304

* 材质: SS304

Model for 304	Size	A/mm	B/mm	C/mm	N.W./g
FLG82N1K164	KF16	18.45	16.1	19.5	
FLG82N1K254	KF25	28.45	24.85	29.5	
FLG82N1K404	KF40	42.95	39.85	44	



KF Over Pressure Ring/KF正压外环

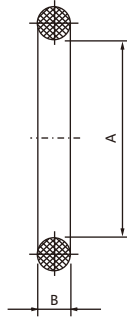
* Material: SS304

* 材质: SS304

Model for 304	Size	Max Pressure	A/mm	B/mm	C/mm	N.W./g
FLG841K164	KF16	100psi	31.75	30	4	
FLG841K254	KF25	100psi	41	38.8	4	4.4
FLG841K404	KF40	75psi	56	52.8	4	12
FLG841K504	KF50	50psi	75	65.5	4	32



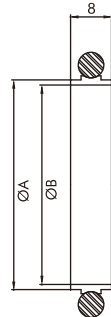
Use to retain O-ring when system is used at internal pressures over atmospheric
仅在正压环境下使用



O-Ring/O形圈

* Material: Viton/NBR/EPDM
* 材质: 氟橡胶/丁腈/三元乙丙

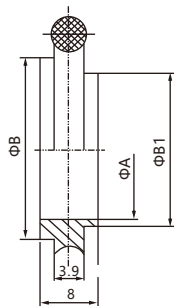
Model for Viton	Size	A/mm	B/mm	N.W./g
SFR0131K103	KF10	13.64	5.3	
SFR0131K163	KF16	18.5	5.3	3.3
SFR0131K253	KF25	28	5.3	4.6
SFR0131K403	KF40	41.2	5.3	6.8
SFR0131K503	KF50	53	5.3	7.7



Center Ring with O-Ring/中心支架带O形圈

* Center Ring Material: SS304/SS316L/Aluminum * 材质: SS304/SS316L/铝
* O-Ring Material: Viton/NBR/EPDM * O-Ring 材质: 氟橡胶/丁腈/三元乙丙

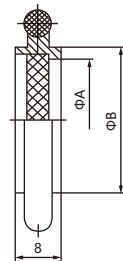
Model for 304+VITON	Size	A/mm	B/mm	N.W./g
FLG11N1K1034	KF10	12	10	
FLG11N1K1634	KF16	17	16	6.9
FLG11N1K2534	KF25	26	25	11.2
FLG11N1K4034	KF40	41	40	16.5
FLG11N1K5034	KF50	52	50	29.5



Adapter Center Ring with O-Ring 异径中心支架带O形圈

* Center Ring Material: SS304/SS316L/Aluminum * 材质: SS304/SS316L/铝
* O-Ring Material: Viton/NBR/EPDM * O-Ring 材质: 氟橡胶/丁腈/三元乙丙

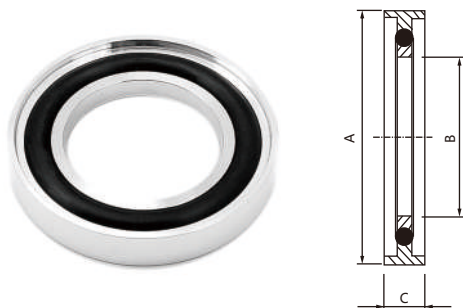
Model for 304+Viton	Size	A/mm	B1/mm	B/mm	N.W./g
FLG11R1K16K1034	KF16xKF10	10	12	17	
FLG11R1K25K2034	KF25xKF20	20	22	26	
FLG11R1K40K3234	KF40xKF32	32	34	41	



Screen Center Ring with O-Ring 滤网中心支架带O形圈

* Center Ring Material: SS304/SS316L/Aluminum * 材质: SS304/SS316L/铝
* Screen Material: SS304 * 滤网材质: SS304
* O-Ring Material: Viton/NBR/EPDM * O-Ring 材质: 氟橡胶/丁腈/三元乙丙

Model for 304+VITON	Size	A/mm	B/mm	N.W./g
FLG11S1K1034	KF10	9	12	
FLG11S1K1634	KF16	14	17	
FLG11S1K2534	KF25	23	26	
FLG11S1K4034	KF40	38	41	
FLG11S1K5034	KF50	49	52	



Center Ring with Outer Ring & O-Ring 外环, 平支架和O形圈三件套

* Center Ring Material:SS304/SS316L/Aluminum

* 材质:SS304/SS316L/铝

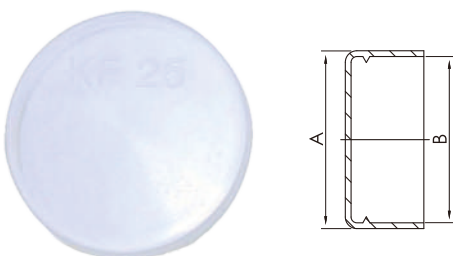
* Outer Ring Material:Aluminum/SS304

* 外环材质:铝/SS304

* O-Ring Material:Viton/NBR/EPDM

* O-Ring 材质:氟橡胶/丁腈/三元乙丙

Model for 304+Viton+Alu	Size	A/mm	B/mm	C/mm	N.W/g
FLG52N1K16348	KF16	32.5	16.1	8	
FLG52N1K25348	KF25	42.5	24.85	8	16.2
FLG52N1K40348	KF40	57.5	39.85	8	28
FLG52N1K50348	KF50	77.5	50	8	59.8



KF Plastic Cap/KF塑料保护盖

* Material:White PE

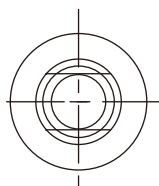
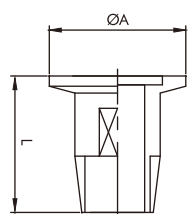
* 材质:白色PE

Model	Size	A/mm	B/mm	N.W/g
CPV011K16W1	KF10/KF16	32	30	1
CPV011K25W1	KF25	42	40	1.5
CPV011K40W1	KF40	57	55	3.7
CPV011K50W1	KF50	77	75	6.3

KF Male Adaptor(Hex)/KF六角外丝

* Material:SS304

* 材质:SS304

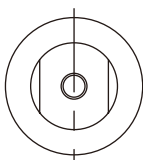
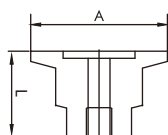


Model for 304		Size	A/mm	L/mm	N.W/g
PT Thread/PT螺纹	NPT Thread/NPT螺纹				
FLM811K160134S1	FLM812K160134S1	KF16x1/8"	30	30	35
FLM811K160254S1	FLM812K160254S1	KF16x1/4"	30	35	36
FLM811K160384S1	FLM812K160384S1	KF16x3/8"	30	35	45
FLM811K160504S1	FLM812K160504S1	KF16x1/2"	30	35	45
FLM811K160754S1	FLM812K160754S1	KF16x3/4"	30	40	86
FLM811K250134S1	FLM812K250134S1	KF25x1/8"	40	30	51
FLM811K250254S1	FLM812K250254S1	KF25x1/4"	40	35	56
FLM811K250384S1	FLM812K250384S1	KF25x3/8"	40	35	62
FLM811K250504S1	FLM812K250504S1	KF25x1/2"	40	35	67
FLM811K250754S1	FLM812K250754S1	KF25x3/4"	40	35	72
FLM811K251004S1	FLM812K251004S1	KF25x1"	40	38	135
FLM811K400134S1	FLM812K400134S1	KF40x1/8"	55	42	92
FLM811K400254S1	FLM812K400254S1	KF40x1/4"	55	42	112
FLM811K400384S1	FLM812K400384S1	KF40x3/8"	55	42	99
FLM811K400504S1	FLM812K400504S1	KF40x1/2"	55	42	118
FLM811K400754S1	FLM812K400754S1	KF40x3/4"	55	42	106
FLM811K401004S1	FLM812K401004S1	KF40x1"	55	42	118
FLM811K401254S1	FLM812K401254S1	KF40x11/4"	55	43	123
FLM811K401504S1	FLM812K401504S1	KF40x11/2"	55	45	159
FLM811K500134S1	FLM812K500134S1	KF50x1/8"	75	45	171
FLM811K500254S1	FLM812K500254S1	KF50x1/4"	75	45	183
FLM811K500384S1	FLM812K500384S1	KF50x3/8"	75	45	183
FLM811K500504S1	FLM812K500504S1	KF50x1/2"	75	45	196
FLM811K500754S1	FLM812K500754S1	KF50x3/4"	75	45	158
FLM811K501004S1	FLM812K501004S1	KF50x1"	75	45	226
FLM811K501254S1	FLM812K501254S1	KF50x11/4"	75	45	206
FLM811K501504S1	FLM812K501504S1	KF50x11/2"	75	45	226
FLM811K502004S1	FLM812K502004S1	KF50x2"	75	48	380

KF Female Adaptor/KF铣对边内丝

* Material:SS304/SS316L

* 材质:SS304/SS316L



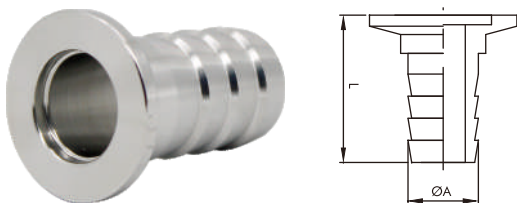
Model for 304		Size	A/mm	L/mm	N.W/g
PT Thread/PT螺纹	NPT Thread/NPT螺纹				
FLF821K160134S1	FLF822K160134S1	KF16x1/8"	30	20	44.2
FLF821K160254S1	FLF822K160254S1	KF16x1/4"	30	20	44
FLF821K160384S1	FLF822K160384S1	KF16x3/8"	30	28	61
FLF821K160504S1	FLF822K160504S1	KF16x1/2"	30	30	80
FLF821K160754S1	FLF822K160754S1	KF16x3/4"	30	32	88
FLF821K250134S1	FLF822K250134S1	KF25x1/8"	40	25	50
FLF821K250254S1	FLF822K250254S1	KF25x1/4"	40	25	63
FLF821K250384S1	FLF822K250384S1	KF25x3/8"	40	25	74
FLF821K250504S1	FLF822K250504S1	KF25x1/2"	40	28	74
FLF821K250754S1	FLF822K250754S1	KF25x3/4"	40	35	98.3
FLF821K251004S1	FLF822K251004S1	KF25x1"	40	35	121.4
FLF821K400134S1	FLF822K400134S1	KF40x1/8"	40	35	100
FLF821K400254S1	FLF822K400254S1	KF40x1/4"	40	35	120
FLF821K400384S1	FLF822K400384S1	KF40x3/8"	40	35	135
FLF821K400504S1	FLF822K400504S1	KF40x1/2"	40	35	145
FLF821K400754S1	FLF822K400754S1	KF40x3/4"	55	32	147
FLF821K401004S1	FLF822K401004S1	KF40x1"	55	35	172
FLF821K401254S1	FLF822K401254S1	KF40x1 1/4"	55	35	264
FLF821K401504S1	FLF822K401504S1	KF40x1 1/2"	55	38	214
FLF821K500134S1	FLF822K500134S1	KF50x1/8"	75	40	175
FLF821K500254S1	FLF822K500254S1	KF50x1/4"	75	40	196
FLF821K500384S1	FLF822K500384S1	KF50x3/8"	75	40	208
FLF821K500504S1	FLF822K500504S1	KF50x1/2"	75	40	242
FLF821K500754S1	FLF822K500754S1	KF50x3/4"	75	40	202
FLF821K501004S1	FLF822K501004S1	KF50x1"	75	40	259
FLF821K501254S1	FLF822K501254S1	KF50x1 1/4"	75	40	328
FLF821K501504S1	FLF822K501504S1	KF50x1 1/2"	75	45	269
FLF821K502004S1	FLF822K502004S1	KF50x2"	75	45	430



KF Hose Adaptor/KF皮管接头

* Material:SS304/SS316L

* 材质:SS304/SS316L

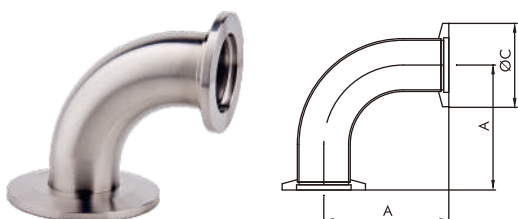


Model for 304	Size	A/mm	L/mm	N.W./g
FLH811K10D84S1	KF10x8mm	8	40	
FLH811K10D104S1	KF10x10mm	10	40	
FLH811K16D64S1	KF16x6mm	6	40	
FLH811K16D84S1	KF16x8mm	8	40	
FLH811K16D104S1	KF16x10mm	10	40	
FLH811K16D124S1	KF16x12mm	12	40	
FLH811K16D164S1	KF16x16mm	16	40	
FLH811K16D204S1	KF16x20mm	20	40	
FLH811K25D64S1	KF25x6mm	6	40	
FLH811K25D84S1	KF25x8mm	8	40	
FLH811K25D104S1	KF25x10mm	10	40	
FLH811K25D124S1	KF25x12mm	12	40	
FLH811K25D164S1	KF25x16mm	16	40	
FLH811K25D204S1	KF25x20mm	20	40	
FLH811K25D254S1	KF25x25mm	25	40	
FLH811K40D164S1	KF40x16mm	16	50	
FLH811K40D204S1	KF40x20mm	20	50	
FLH811K40D254S1	KF40x25mm	25	50	
FLH811K40D324S1	KF40x32mm	32	50	
FLH811K40D404S1	KF40x40mm	40	50	
FLH811K50D254S1	KF50x25mm	25	50	
FLH811K50D324S1	KF50x32mm	32	50	
FLH811K50D404S1	KF50x40mm	40	50	
FLH811K50D504S1	KF50x50mm	50	50	

KF 90° Elbow/KF弯头

* Material:SS304/SS316L

* 材质:SS304/SS316L

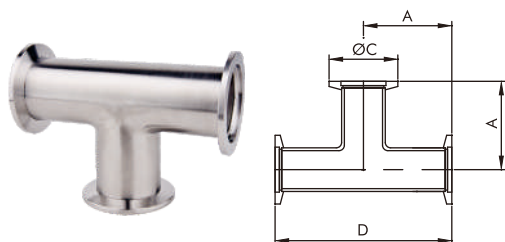


Model for 304	Size	A/mm	C/mm	N.W./g
FEK011K104	KF10	30	30	
FEK011K164	KF16	40	30	69
FEK011K254	KF25	50	40	104.5
FEK011K404	KF40	65	55	263.3
FEK011K504	KF50	70	75	429

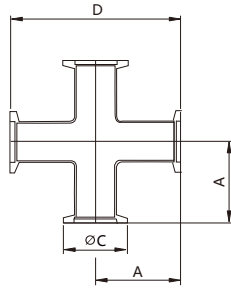
KF Equal Tee/KF三通

* Material:SS304/SS316L

* 材质:SS304/SS316L



Model for 304	Size	A/mm	C/mm	D/mm	N.W./g
FTK011K104	KF10	30	30	60	
FTK011K164	KF16	40	30	80	102
FTK011K254	KF25	50	40	100	183
FTK011K404	KF40	65	55	130	325
FTK011K504	KF50	70	75	140	647

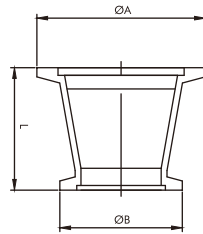


KF Cross/KF四通

* Material:SS304/SS316L

* 材质:SS304/SS316L

Model for 304	Size	A/mm	C/mm	D/mm	N.W./g
FXK811K104	KF10	30	30	60	
FXK811K164	KF16	40	30	80	
FXK811K254	KF25	50	40	100	
FXK811K404	KF40	65	55	130	
FXK811K504	KF50	70	75	140	

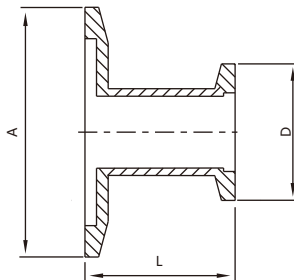


KF Conical Reducing Adaptor/KF同心大小头

* Material:SS304/SS316L

* 材质:SS304/SS316L

Model for 304	Size	A/mm	B/mm	L/mm	N.W./g
FRK011K16K104	KF16xKF10	30	30	40	58
FRK011K25K104	KF25xKF10	40	30	40	84
FRK011K25K164	KF25xKF16	40	30	40	75
FRK011K40K164	KF40xKF16	55	30	40	100
FRK011K40K254	KF40xKF25	55	40	40	114
FRK011K50K164	KF50xKF16	75	30	40	116
FRK011K50K254	KF50xKF25	75	40	40	178
FRK011K50K404	KF50xKF40	75	55	40	200



KF Straight Reducer/KF异径接头

* Material:304/316L

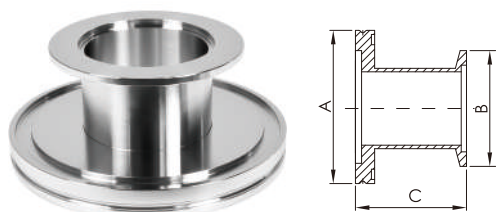
* 材质:304/316L

Model for 304	Size	A/mm	D/mm	L/mm	N.W./g
FRK041K25K164	KF25xKF16	40	30	40	
FRK041K40K164	KF40xKF16	55	30	40	
FRK041K40K254	KF40xKF25	55	40	40	
FRK041K50K164	KF50xKF16	75	30	40	
FRK041K50K254	KF50xKF25	75	40	40	
FRK041K50K404	KF50xKF40	75	55	40	

ISO-K to KF Reducing Adaptor/ISO-K变KF转接头

* Material:304/316L

* 材质:304/316L

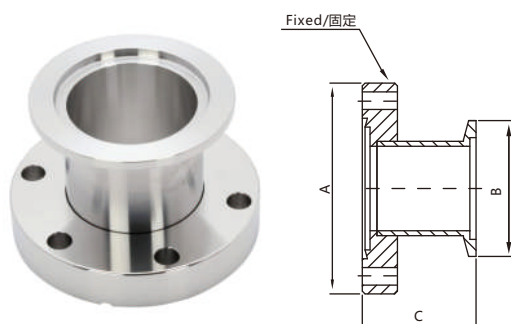


Model for 304	Size	A/mm	B/mm	C/mm	N.W./g
FRK021S63K164	ISO63xKF16	95	30	45	543
FRK021S63K254	ISO63xKF25	95	40	45	634.5
FRK021S63K404	ISO63xKF40	95	55	45	605
FRK021S63K504	ISO63xKF50	95	75	45	622.4
FRK021S80K164	ISO80xKF16	110	30	45	870
FRK021S80K254	ISO80xKF25	110	40	45	870
FRK021S80K404	ISO80xKF40	110	55	45	850
FRK021S80K504	ISO80xKF50	110	75	45	838
FRK021S100K164	ISO100xKF16	130	30	45	1214
FRK021S100K254	ISO100xKF25	130	40	45	1189
FRK021S100K404	ISO100xKF40	130	55	45	1164
FRK021S100K504	ISO100xKF50	130	75	45	1180.5
FRK021S125K164	ISO125xKF16	155	30	45	1760
FRK021S125K254	ISO125xKF25	155	40	45	1711
FRK021S125K404	ISO125xKF40	155	55	45	1690
FRK021S125K504	ISO125xKF50	155	75	45	1678
FRK021S160K164	ISO160xKF16	180	30	45	2316
FRK021S160K254	ISO160xKF25	180	40	45	2314
FRK021S160K404	ISO160xKF40	180	55	45	2307
FRK021S160K504	ISO160xKF50	180	75	45	2293

CF to KF Reducing Adaptor/CF变KF转接头

* Material:304/316L

* 材质:304/316L

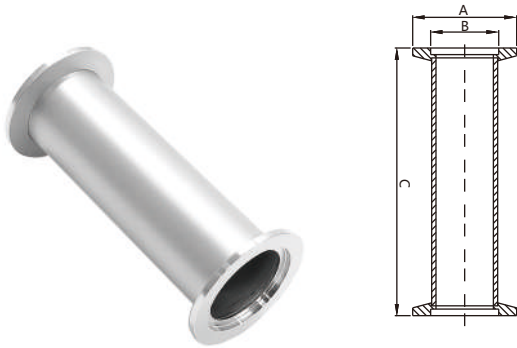


Model for 304	Size	A/mm	B/mm	L/mm	N.W./g
FRK031F16K164	CF16xKF16	33.8	30	45	80
FRK031F25K164	CF25xKF16	53.8	30	45	190
FRK031F25K254	CF25xKF25	53.8	40	45	185
FRK031F35K164	CF35xKF16	70	30	45	363
FRK031F35K254	CF35xKF25	70	40	45	363
FRK031F35K404	CF35xKF40	70	55	45	338
FRK031F50K164	CF50xKF16	85.7	30	45	
FRK031F50K254	CF50xKF25	85.7	40	45	645
FRK031F50K404	CF50xKF40	85.7	55	45	
FRK031F50K504	CF50xKF50	85.7	75	45	
FRK031F63K164	CF63xKF16	114.3	30	45	1300
FRK031F63K254	CF63xKF25	114.3	40	45	1280
FRK031F63K404	CF63xKF40	114.3	55	45	
FRK031F63K504	CF63xKF50	114.3	75	45	
FRK031F80K164	CF80xKF16	117.5	30	50	
FRK031F80K254	CF80xKF25	117.5	40	50	
FRK031F80K404	CF80xKF40	117.5	55	50	
FRK031F80K504	CF80xKF50	117.5	75	50	
FRK031F100K164	CF100xKF16	152.4	30	50	
FRK031F100K254	CF100xKF25	152.4	40	50	
FRK031F100K404	CF100xKF40	152.4	55	50	2570
FRK031F100K504	CF100xKF50	152.4	75	50	
FRK031F150K164	CF150xKF16	203.2	30	50	
FRK031F150K254	CF150xKF25	203.2	40	50	5158
FRK031F150K404	CF150xKF40	203.2	55	50	
FRK031F150K504	CF150xKF50	203.2	75	50	

KF Full Nipples/KF直管

* Material:SS304/SS316L

* 材质:SS304/SS316L



Contact us for custom length
可定制尺寸

Model for 304	Size	A/mm	B/mm	C/mm	N.W./g
URW881K16L404	KF16XL40mm	30	17.2	40	
URW881K16L604	KF16XL60mm	30	17.2	60	
URW881K16L804	KF16XL80mm	30	17.2	80	
URW881K16L1004	KF16XL100mm	30	17.2	100	
URW881K25L404	KF25XL40mm	40	26.2	40	
URW881K25L604	KF25XL60mm	40	26.2	60	
URW881K25L804	KF25XL80mm	40	26.2	80	
URW881K25L1004	KF25XL100mm	40	26.2	100	130
URW881K40L404	KF40XL40mm	55	41.2	40	
URW881K40L604	KF40XL60mm	55	41.2	60	
URW881K40L804	KF40XL80mm	55	41.2	80	
URW881K40L1004	KF40XL100mm	55	41.2	100	
URW881K50L404	KF50XL40mm	75	52.2	40	
URW881K50L604	KF50XL60mm	75	52.2	60	
URW881K50L804	KF50XL80mm	75	52.2	80	
URW881K50L1004	KF50XL100mm	75	52.2	100	

KF Bulkhead Clamp/KF舱壁隔板

Bulkhead Clamps are used for mating KF flanges to bulkheads. The KF flange is used for through- or foreline vacuum plumbing and for simple HV chamber pots.

舱壁隔板用于KF接头安装在舱壁上,KF接头用于前级真空管道和简单真空腔体接口。

* Provides simple and secure baseplate connection

* SS bolts and washers included

* Material:Aluminium (EN AW-6082 T6) or 304

* Bolt:A2-70 (Hexagon socket head cap screw, M5 x 16 mm or 10-32 UNF x5/8", Silver Plated)

* 提供简单安全的舱壁连接

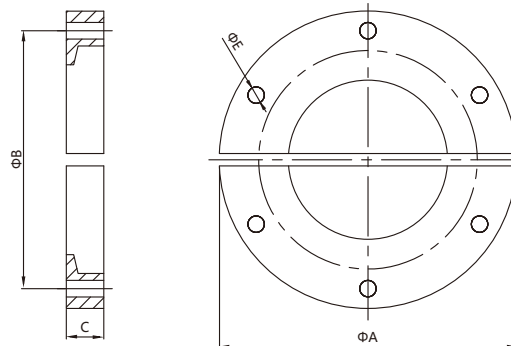
* 带不锈钢螺栓和垫片

* 材质:铝或者304

* 螺栓:A2-70 (内六角 M5 x 16 mm 或者10-32 UNF x5/8", 镀银)



Model for Alu	Size	A/mm	B/mm	C/mm	E/mm	Hole Qty 孔数	N.W./g	
							Alu	304
TAB0181K168	KF16	50.8	38.1	9.2	5.3	6	53.8	98
TAB0181K258	KF25	60.5	48	9.9	5.3	6	63.2	140
TAB0181K408	KF40	74.6	62	9.3	5.3	6	74.6	
TAB0181K508	KF50	95.2	82.6	10.4	5.3	8	106.2	
TAB0181K638	KF63	107.2	94.6	10.4	5.3	8		



■ ISO FLANGE SERIES

ISO法兰系列

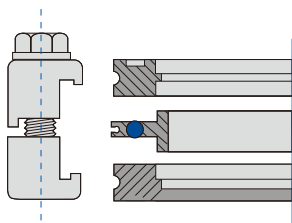
ISO flanges are larger than KF flanges, similar to the KF flanges, they use a centering ring for sealing ISO flanges are widely used in systems that need frequent cleaning or disassembly.

There are two different methods to join the flanges together: 1. Bolts (ISO-F, see diagram C) or 2. Claw clamps (ISO-K, see diagram A). These two flanges look very different, yet they can be joined together by using a single claw clamp (see diagram B).

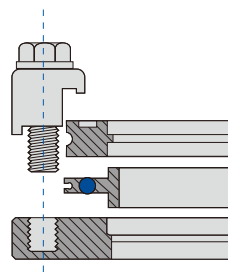
ISO法兰的密封和KF法兰类似,也是通过中心支架和O形圈密封。它主要用于需频繁拆卸或管道外径大于2寸的管道系统,其采用不锈钢304,304L,316L材质制造。

ISO分成两种,ISO-K和ISO-F。ISO-K使用双边C型卡钳连接(见图A),ISO-F使用螺栓连接(见图C)。如果想要连接ISO-K和ISO-F法兰,则可以使用单边C型卡钳(见图B)。

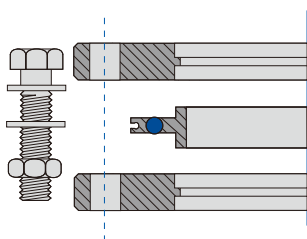
A. ISO-K Flange with Double Claw Clamp
ISO-K法兰带双边卡钳



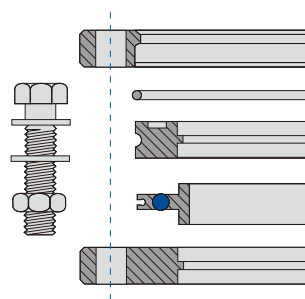
B. ISO-K Flange With Single Claw Clamp
ISO-K法兰带单边卡钳



C. ISO-F Flange
ISO-F固定法兰



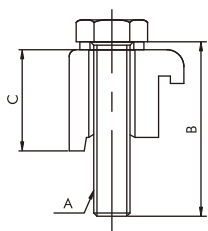
D. ISO-K Flange and Nonrotatable with Rotatable Bolt Ring
ISO-K内焊法兰,ISO-F固定法兰和ISO活套外法兰带钢圈



ISO Single Wall Clamp/单边C型卡钳

* Material: Aluminum/SS304

* 材质: 铝/SS304



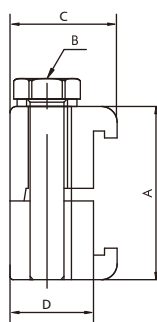
Model for Alu	Size	For Flange Size	A	B/mm	C/mm	N.W./g	Pcs/CTN
FCE81M88	M8	ISO63-ISO100	M8	35	23.5	33.5	250
FCE81M108	M10	ISO160-ISO250	M10	35	23.5	55.5	250
FCE81M128	M12	ISO320-ISO500	M12	50	29.8	92.5	200

Model For 304	Size	For Flange Size	A	B/mm	C/mm	N.W./g	Pcs/CTN
FCE81M84	M8	ISO63-ISO100	M8	40	20.3	63	
FCE81M104	M10	ISO160-ISO250	M10	45	23.2	95	
FCE81M124	M12	ISO320-ISO500	M12	60	29.3	150	

ISO Double Wall Clamp/双边C型卡钳

* Material: Aluminum/SS304

* 材质: 铝/SS304



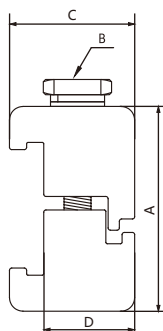
Model for Alu	Size	For Flange Size	A/mm	B	C/mm	D/mm	N.W./g	Pcs/CTN
FCF81M88	M8	ISO63-ISO100	45	M8	24.2	16.5	51.4	250
FCF81M108	M10	ISO160-ISO250	45	M10	27.6	20	72	250
FCF81M128	M12	ISO320-ISO500	60	M12	34	26.5	132	200

Model For 304	Size	For Flange Size	A/mm	B	C/mm	D/mm	N.W./g	Pcs/CTN
FCF81M84	M8	ISO63-ISO100	45	M8	23.5	16	104.6	
FCF81M104	M10	ISO160-ISO250	50	M10	27.2	19.6	149.4	
FCF81M124	M12	ISO320-ISO500	50	M12	33	26	243	

ISO Double Wall Clamp/双边C型卡钳子母款

* Material: Aluminum/SS304

* 材质: 铝/SS304

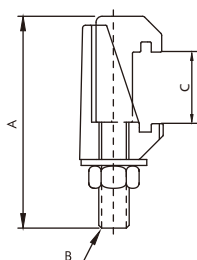


Model for Alu	Size	For Flange Size	A	B	C/mm	D/mm	N.W./g	Pcs/CTN
FCF82M108	M10	ISO160-ISO250	42.5	M10	27.8	20.2	75	250

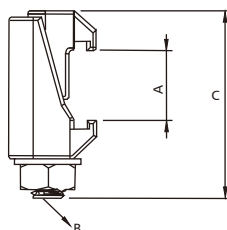
ISO Double Claw Clamp/ISO钩头螺栓

* Material: SS304

* 材质: SS304



Model for 304	Size	For Flange Size	A/mm	B	C/mm	N.W./g	Pcs/CTN
FCG81M84	M8	ISO63-ISO100	60	M8	12-33	76	200
FCG81M104	M10	ISO160-ISO250	68	M10	17-38	115	100
FCG81M124S1	M12	ISO320-ISO500	83	M12	20-50	163	100
FCG81M124S2	M12*95	ISO320-ISO500	95	M12	20-50	172	100

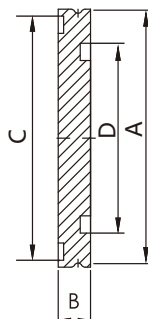


ISO Double Claw Clamp/ISO钩头螺栓

* Material: Zinc Plated

* 材质: 镀锌

Model No	Size	For Flange Size	A/mm	B	C/mm	N.W./g	Pcs/CTN
FCG83M107	M10	ISO160-ISO250	17-27	M10	59.5	144	250

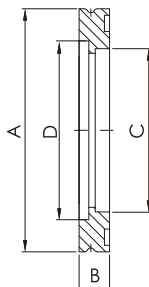


ISO-K Claw Clamp Blank Flange/ISO-K盲板

* Material: SS304/SS316L

* 材质: SS304/SS316L

Model for 304	Size(ISO/NW)	A/mm	B/mm	C/mm	D/mm	N.W./g
FBB821S634	63	95	12	90	70	640
FBB821S804	80	110	12	105	83	860
FBB821S1004	100	130	12	125	102	1205
FBB821S1254	125	155	12	150	127	1725
FBB821S1604	160	180	12	175	153	2300
FBB821S2004	200	240	12	235	213	4150
FBB821S2504	250	290	12	285	261	
FBB821S3204	320	370	17	365	318	
FBB821S4004	400	450	17	445	400	21000
FBB821S5004	500	550	17	545	501	31500
FBB821S6304	630	690	22	685	651	



ISO-K Claw Clamp Bored Flange/ISO-K内焊法兰

* Material: SS304/SS316L

* 材质: SS304/SS316L

Model for 304	Size(ISO/NW)	A/mm	B/mm	C/mm	D/mm	For Tube OD/mm	N.W./g
FBA821S632504	63	95	12	63.7	70	63.5	320
FBA821S633004	63	95	12	76.4	70	76.2	260
FBA821S803004	80	110	12	76.4	83	76.2	450
FBA821S803504	80	110	12	89.3	83	88.9	335
FBA821S1004004	100	130	12	101.8	102	101.6	500
FBA821S1004254	100	130	12	108.5	102	108	415
FBA821S1255004	125	155	12	127.5	127	127	550
FBA821S1255254	125	155	12	133.8	127	133	500
FBA821S1606004	160	180	12	152.9	153	152.4	650
FBA821S1606254	160	180	12	159.3	153	159	550
FBA821S2008004	200	240	12	203.7	213	203.2	1100
FBA821S2008604	200	240	12	219.5	213	219	800
FBA821S25010004	250	290	12	254.5	261	254	
FBA821S25010754	250	290	12	273.6	261	273	950
FBA821S32012004	320	370	17	305.3	318	304.8	
FBA821S32012504	320	370	17	319.5	318	319	3700
FBA821S32012754	320	370	17	324.3	318	323.85	
FBA821S40016004	400	450	17	407	400	406.4	4000
FBA821S50020004	500	550	17	508.8	501	508	5000

*C data can be customized

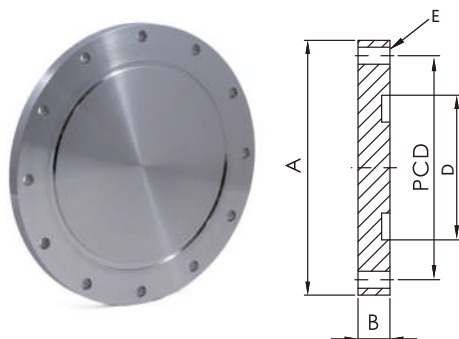
C值可定制



ISO-F Fixed Bolted Blank Flange/ISO-F固定盲板

* Material:SS304/SS316L

* 材质:SS304/SS316L

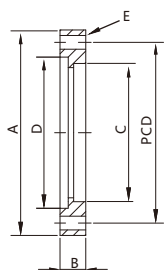


Model for 304	Size(ISO/NW)	A/mm	B/mm	D/mm	E(*No)	PCD	N.W./g
FBB83H1S634	63	130	12	70	9*4	110	
FBB83H1S804	80	145	12	83	9*8	125	
FBB83H1S1004	100	165	12	102	9*8	145	
FBB83H1S1604	160	225	16	153	11*8	200	
FBB83H1S2004	200	285	16	213	11*12	260	
FBB83H1S2504	250	335	16	261	11*12	310	
FBB83H1S3204	320	425	20	318	14*12	395	
FBB83H1S4004	400	510	20	400	14*16	480	
FBB83H1S5004	500	610	20	501	14*16	580	
FBB83H1S6304	630	750	24	651	14*20	720	

ISO-F Bolted Bored Flange/ISO-F固定内焊法兰

* Material:SS304/SS316L

* 材质:SS304/SS316L

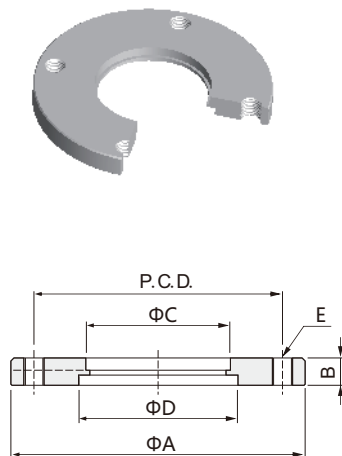


Model for 304	Size(ISO/NW)	A/mm	B/mm	C/mm	D/mm	E(*No)	PCD	For Tube OD/mm	N.W./g
FBA83H1S632504	63	130	12	63.7	70	9*4	110	63.5	
FBA83H1S633004	63	130	12	76.6	70	9*4	110	76.2	
FBA83H1S803004	80	145	12	76.6	83	9*8	125	76.2	
FBA83H1S803504	80	145	12	89.4	83	9*8	125	88.9	
FBA83H1S1004004	100	165	12	102.2	102	9*8	145	101.6	
FBA83H1S1004254	100	165	12	108.6	102	9*8	145	108	
FBA83H1S1606004	160	225	16	152.9	153	11*8	200	152.4	
FBA83H1S1606254	160	225	16	159.5	153	11*8	200	159	
FBA83H1S2008004	200	285	16	203.7	213	11*12	260	203.2	
FBA83H1S2008604	200	285	16	219.5	213	11*12	260	219	
FBA83H1S25010004	250	335	16	254.5	261	11*12	310	254	
FBA83H1S25010754	250	335	16	273.6	261	11*12	310	273	
FBA83H1S32012004	320	425	20	305.3	318	14*12	395	304.8	
FBA83H1S40016004	400	510	20	406.9	400	14*16	480	406.4	
FBA83H1S50020004	500	610	20	508.8	501	14*16	580	508	

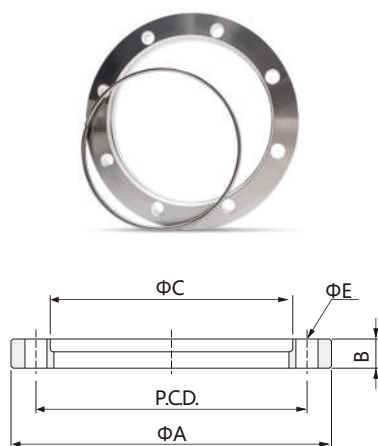
ISO-F Bolted Bored Flange-Tapped ISO-F固定内焊法兰公制螺栓孔

* Material:SS304/SS316L

* 材质:SS304/SS316L



Model for 304	Size ISO/NW	A/mm	B/mm	C/mm	D/mm	E(*No)	PCD	For Tube OD/mm	N.W./g
FBA83M1S632504	63	130	12	63.7	70	M8*4	110	63.5	
FBA83M1S633004	63	130	12	76.6	70	M8*4	110	76.2	
FBA83M1S803004	80	145	12	76.6	83	M8*8	125	76.2	
FBA83M1S803504	80	145	12	89.4	83	M8*8	125	88.9	
FBA83M1S1004004	100	165	12	102.2	102	M8*8	145	101.6	
FBA83M1S1004254	100	165	12	108.6	102	M8*8	145	108	
FBA83M1S1606004	160	225	16	152.9	153	M10*8	200	152.4	
FBA83M1S1606254	160	225	16	159.5	153	M10*8	200	159	
FBA83M1S2008004	200	285	16	203.7	213	M10*12	260	203.2	
FBA83M1S2008604	200	285	16	219.5	213	M10*12	260	219	
FBA83M1S25010004	250	335	16	254.5	261	M10*12	310	254	
FBA83M1S25010754	250	335	16	273.6	261	M10*12	310	273	
FBA83M1S32012004	320	425	20	305.3	318	M12*12	395	304.8	
FBA83M1S40016004	400	510	20	406.9	400	M12*16	480	406.4	
FBA83M1S50020004	500	610	20	508.8	501	M12*16	580	508	



Rotatable Bolt Ring/ISO活套法兰

* Material:SS304/SS316L

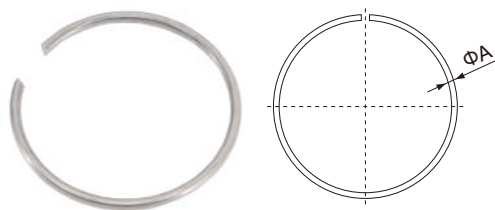
* 材质:SS304/SS316L

Model for 304	Size(ISO/NW)	A/mm	B/mm	C/mm	E(*No)	PCD	N.W./g
FBA84H1S634	63	130	12	98.5	9*4	110	
FBA84H1S804	80	145	12	113.5	9*8	125	
FBA84H1S1004	100	165	12	133.5	9*8	145	
FBA84H1S1604	160	225	16	185.7	11*8	200	
FBA84H1S2004	200	285	16	245.7	11*12	260	
FBA84H1S2504	250	335	16	295.7	11*12	310	
FBA84H1S3204	320	425	20	375.8	14*12	395	
FBA84H1S4004	400	510	20	458.8	14*16	480	
FBA84H1S5004	500	610	20	558.8	14*16	580	

Split Retainer Ring/钢圈(配ISO活套法兰)

* Material:SS304

* 材质:SS304

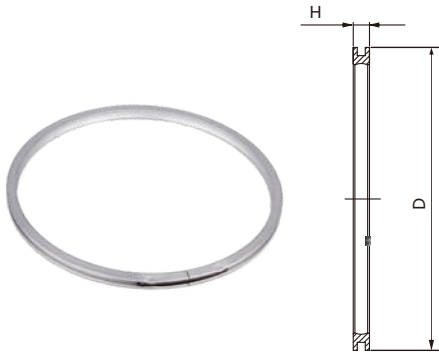


Model for 304	Size(ISO/NW)	A/mm	N.W./g
FLG861S634	63	3	
FLG861S804	80	3	
FLG861S1004	100	3	
FLG861S1604	160	4.5	
FLG861S2004	200	4.5	
FLG861S2504	250	4.5	
FLG861S3204	320	4.5	
FLG861S4004	400	8	
FLG861S5004	500	8	

ISO Outer Ring/ISO外环

* Material:Alumium

* 材质:铝

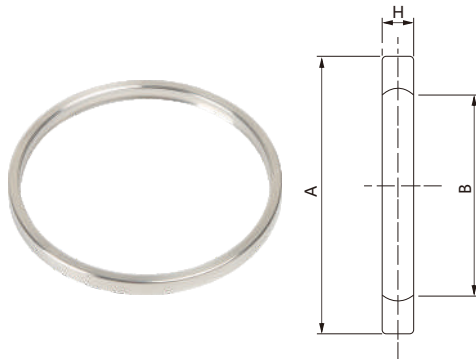


Model for Alu	Size(ISO/NW)	H/mm	D/mm	N.W/g
FLG831S638	63	4	94	6
FLG831S808	80	4	109	11.6
FLG831S1008	100	4	128	13.5
FLG831S1258	125	4	152	16.8
FLG831S1608	160	4	179	19.2
FLG831S2008	200	4	238	25.8
FLG831S2508	250	4	287	
FLG831S3208	320	4	344	
FLG831S4008	400	4	446	
FLG831S5008	500	4	535	

ISO Overpressure Ring/ISO正压外环

* Material:SS304

* 材质:不锈钢304

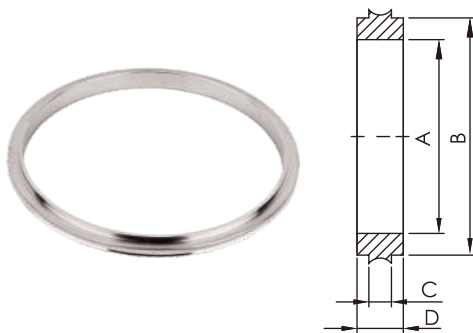


Model for 304	Size(ISO/NW)	A/mm	B/mm	C/mm	N.W/g
FLG841S634	63	95	86.5	4	
FLG841S804	80	110	96.1	4	
FLG841S1004	100	130	116.2	4	
FLG841S1254	125	154.8	146.5	4	
FLG841S1604	160	179.8	169.5	4	
FLG841S2004	200	240	227	4	
FLG841S2504	250	289.5	276.6	4	
FLG841S3204	320	369.5	332.4	5.5	

Center Ring/中心支架

* Material:Aluminum/SS304/SS316L

* 材质:铝/SS304/SS316L



Model for 304	Size(ISO/NW)	A/mm	B/mm	C/mm	D/mm	N.W/g
FLG81N1S634	ISO63	68	70	3.9	8	45.6
FLG81N1S804	ISO80	81	83	3.9	8	52.6
FLG81N1S1004	ISO100	100	102	3.9	8	68.1
FLG81N1S1604	ISO160	148	153	3.9	8	80.4
FLG81N1S2004	ISO200	210	213	3.9	8	106.4
FLG81N1S2504	ISO250	257.5	260.4	3.9	8	143.5
FLG81N1S3204	ISO320	312	317.3	5.6	12	
FLG81N1S4004	ISO400	394	400	5.6	12	
FLG81N1S5004	ISO500	494	501	5.6	12	

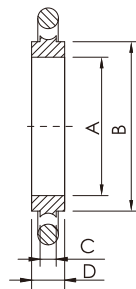
ISO Center Ring with O-Ring/ISO支架带O形圈

*Center Ring Material: Aluminum/SS304/SS316L

*支架材质: 铝/SS304/SS316L

*O-Ring Material: Viton/NBR/EPDM

*O形圈材质: 氟橡胶/丁青/三元乙丙



Model		Size	A/mm	B/mm	C/mm	D/mm	N.W./g	
SS304+Viton	SS304+NBR						SS304+Viton	SS304+NBR
FLG11N1S6334	FLG11N1S6344	ISO63	68	70	3.9	8	56.8	
FLG11N1S8034	FLG11N1S8044	ISO80	81	83	3.9	8	64.7	
FLG11N1S10034	FLG11N1S10044	ISO100	100	102	3.9	8	82.8	
FLG11N1S12534	FLG11N1S12544	ISO125	124	125.8	3.9	8	100	
FLG11N1S16034	FLG11N1S16044	ISO160	148	153	3.9	8	129	
FLG11N1S20034	FLG11N1S20044	ISO200	210	213	3.9	8	173.5	
FLG11N1S25034	FLG11N1S25044	ISO250	257.5	260.4	3.9	8		
FLG11N1S32034	FLG11N1S32044	ISO320	312	317.3	5.6	12		
FLG11N1S40034	FLG11N1S40044	ISO400	394	400	5.6	12		
FLG11N1S50034	FLG11N1S50044	ISO500	494	501	5.6	12		

Center Ring with Outer Ring & O-Ring/铝外环,支架和O形圈三件套

*Center Ring Material: SS304/SS316L/Aluminium

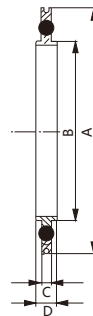
*中心支架材质: SS304/SS316L/铝

*Outer Ring Material: Aluminium

*外环材质: 铝

*O-Ring Material: Viton/NBR/EPDM

*O形圈材质: 氟橡胶/丁青/三元乙丙

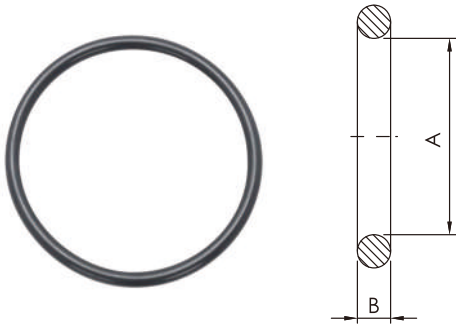


Model		Size	A/mm	B/mm	C/mm	D/mm	N.W./g	
Alu + SS304+Viton	Alu + SS304+NBR						Alu + SS304+Viton	Alu + SS304+NBR
FLG31N1S63348	FLG31N1S63448	ISO63	94	70	3.9	8	62.8	
FLG31N1S80348	FLG31N1S80448	ISO80	109	83	3.9	8	76.3	
FLG31N1S100348	FLG31N1S100448	ISO100	128	102	3.9	8	96.3	
FLG31N1S125348	FLG31N1S125448	ISO125	152	125.8	3.9	8	116.8	
FLG31N1S160348	FLG31N1S160448	ISO160	179	153	3.9	8	148.2	
FLG31N1S200348	FLG31N1S200448	ISO200	238	213	3.9	8	199.3	
FLG31N1S250348	FLG31N1S250448	ISO250	287	260.4	3.9	8		
FLG31N1S320348	FLG31N1S320448	ISO320	344	317.3	5.6	12		
FLG31N1S400348	FLG31N1S400448	ISO400	446	400	5.6	12		
FLG31N1S500348	FLG31N1S500448	ISO500	535	501	5.6	12		

O-Ring/O形圈

* Material: Viton/NBR/EPDM

* 材质: 氟橡胶/丁腈/三元乙丙

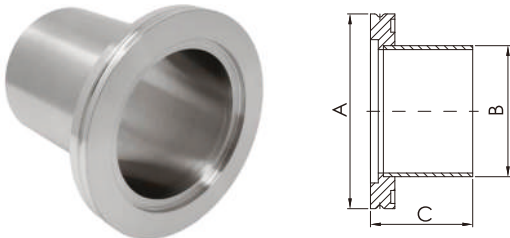


Model No		Size	A/mm	B/mm	N.W./g	
Black Viton	Black NBR				Black Viton	Black NBR
SFR013B1S63	SFR014B1S63	ISO63	75	5.33	11.2	
SFR013B1S80	SFR014B1S80	ISO80	87.5	5.33	12.1	
SFR013B1S100	SFR014B1S100	ISO100	106	5.33	14.7	
SFR013B1S125	SFR014B1S125	ISO125	132	5.33	19.6	
SFR013B1S160	SFR014B1S160	ISO160	155	5.33	22.6	
SFR013B1S200	SFR014B1S200	ISO200	212	5.33	30	
SFR013B1S250	SFR014B1S250	ISO250	258	5.33		
SFR013B1S320	SFR014B1S320	ISO320	320	6.99		
SFR013B1S400	SFR014B1S400	ISO400	405	6.99		
SFR013B1S500	SFR014B1S500	ISO500	506.86	6.99		

ISO-K Half Nipple/ISO-K 接头

* Material: SS304/SS316L

* 材质: SS304/SS316L

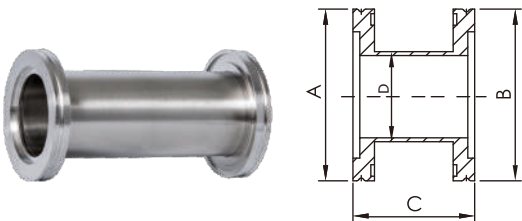


Model for 304		Size	A/mm	B/mm	N.W./g	
C=30mm	C=100mm				C=30mm	C=100mm
FLW731S632504	FLW711S63250L1004	ISO63	95	63.5		
FLW731S633004	FLW711S63300L1004	ISO63	95	76.2		
FLW731S803004	FLW711S80300L1004	ISO80	110	76.2		
FLW731S803504	FLW711S80350L1004	ISO80	110	88.9		
FLW731S1004004	FLW711S100400L1004	ISO100	130	101.6		
FLW731S1004254	FLW711S100425L1004	ISO100	130	108		
FLW731S1606004	FLW711S160600L1004	ISO160	180	152.4		
FLW731S1606504	FLW711S160650L1004	ISO160	180	159		
FLW731S2008004	FLW711S200800L1004	ISO200	240	203.2		
FLW731S25010004	FLW711S2501000L1004	ISO250	290	254		
FLW731S32012004	FLW711S3201200L1004	ISO320	370	304.8		
FLW731S40016004	FLW711S4001600L1004	ISO400	450	406.8		
FLW731S50020004	FLW711S5002000L1004	ISO500	550	508		

ISO-K Full Nipple/双头ISO-K法兰直管

* Material: SS304/SS316L

* 材质: SS304/SS316L

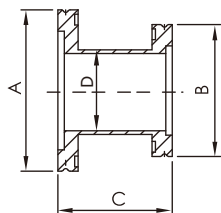


Model No	Size	A/mm	B/mm	C/mm	D/mm	N.W./g
URW771S63250L1004	ISO63	95	95	100	63.5	
URW771S63300L1004	ISO63	95	95	100	76.2	
URW771S80300L1004	ISO80	110	110	100	76.2	
URW771S80350L1004	ISO80	110	110	100	88.9	
URW771S100400L1004	ISO100	130	130	100	101.6	
URW771S100425L1004	ISO100	130	130	100	108	
URW771S160600L1004	ISO160	180	180	100	152.4	
URW771S160650L1004	ISO160	180	180	100	159	
URW771S200800L1004	ISO200	240	240	100	203.2	

ISO-K Straight Reducer/ISO-K异径接头

*Material:SS304/SS316L

*材质:SS304/SS316L

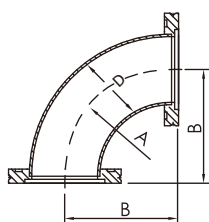


Model for 304	Size	A	B	C/mm	D/mm	N.W./g
FRS021S80S633004	ISO80xISO63	ISO80	ISO63	76.2	76.2	
FRS021S100S633004	ISO100xISO63	ISO100	ISO63	76.2	76.2	
FRS021S100S803504	ISO100xISO80	ISO100	ISO80	76.2	88.9	
FRS021S160S633004	ISO160xISO63	ISO160	ISO63	76.2	76.2	
FRS021S160S803504	ISO160xISO80	ISO160	ISO80	76.2	88.9	
FRS021S160S1004254	ISO160xISO100	ISO160	ISO100	76.2	108	

ISO-K 90° Elbow/ISO-K 90度弯头

* Material:SS304/SS316L

* 材质:SS304/SS316L

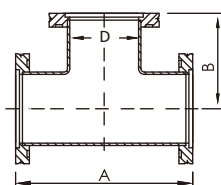


Model for 304	Size(ISO/NW)	A/mm	B/mm	D/mm	N.W./g
FES011S632504	ISO63	95.3	101.6	63.5	
FES011S803004	ISO80	114.3	120.6	76.2	
FES011S1004004	ISO100	152.4	158.7	101.6	
FES011S1606004	ISO160	228.6	234.9	152.4	

ISO-K Equal Tee/ISO-K 三通

* Material:SS304/SS316L

* 材质:SS304/SS316L

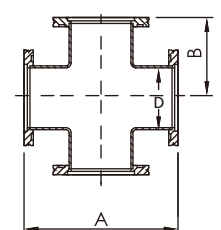


Model for 304	Size(ISO/NW)	A/mm	B/mm	D/mm	N.W./g
FTS021S632504	ISO63	165	82.5	63.5	
FTS021S803004	ISO80	177.8	88.9	76.2	
FTS021S1004004	ISO100	209.4	104.7	101.6	
FTS021S1606004	ISO160	298.6	149.3	152.4	

ISO-K Cross/ISO-K四通

* Material:SS304/SS316L

* 材质:SS304/SS316L

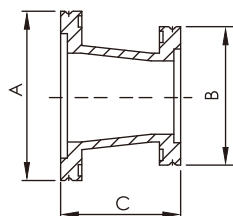


Model for 304	Size(ISO/NW)	A/mm	B/mm	D/mm	N.W./g
FXS021S632504	ISO63	165	82.5	63.5	
FXS021S803004	ISO80	177.8	88.9	76.2	
FXS021S1004004	ISO100	209.4	104.7	101.6	
FXS021S1606004	ISO160	298.6	149.3	152.4	

ISO-K Conical Reducer/ISO-K 大小头

* Material:SS304/SS316L

* 材质:SS304/SS316L



Model for 304	Size(ISO/NW)	A	B	C/mm	Tube OD/mm	N.W./g
FRS023S80S634	ISO80xISO63	ISO80	ISO63	51.5	76.2x63.5	
FRS023S100S634	ISO100xISO63	ISO100	ISO63	90.5	101.6x63.5	
FRS023S100S804	ISO100xISO80	ISO100	ISO80	72.5	101.6x76.2	

*Welding/焊接成型

ISO-K VACUUM VIEWPORT

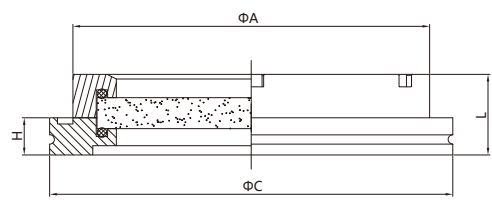
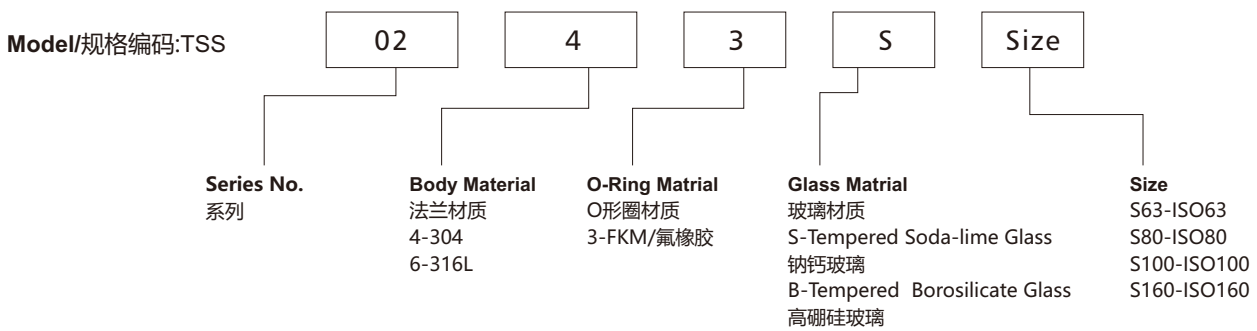
ISO-K真空视镜

Design and Feature/设计特点

- * SS304/SS316L Flange with FKM O-Ring *SS304/SS316L材质法兰, 氟橡胶O型圈
- * Glass Material: Borosilicate Glass *玻璃材质: 高硼硅玻璃
- * Pressure Range: 10⁻⁸ torr to 1 bar *压力范围: 10⁻⁸ torr to 1 bar
- * Temperature range: -5°C to 150°C *工作温度: -5°C to 150°C



Ordering Information



Model/型号	Size/规格	A/mm	C/mm	H/mm	L/mm	N.W.净重/g
TSS0243SS63S1	ISO63	80	95	12	26	660
TSS0243SS80S1	ISO80	95	110	12	26	840
TSS0243SS100S1	ISO100	115	130	12	26	1070
TSS0243SS125S1	ISO125	140	155	12	26	
TSS0243SS160S1	ISO160	165	188	12	26	
TSS0243SS200S1	ISO200	225	240	12	26	



■ CF FLANGE SERIES

CF法兰系列

CF flanges are available with tapped or untapped holes. Tapped flanges are available in UNC/UNF or metric threads. Tapped flanges have through holes, so bolts may protrude slightly from the back of the flange when fastened to an untapped flange. Untapped CF flanges can be fastened to each other with stainless steel bolts and hex nuts or plate nuts. Plate nuts center themselves over two adjacent holes and can be held in place with one finger while the bolts are tightened. They are available for most flange sizes from 1 1/3 to 10 inch (33.96-254mm) ODs. As an alternative to hex head bolts, 12-point bolts are available for CF flanges from 2 3/4 to 10 inch (33.96 to 354mm) ODs. Silver plated bolts eliminate the need for anti-seize compound in clean room environments.

CF法兰是一种用于超高真空的法兰,采购金属硬密封,可承受高温烧烤。

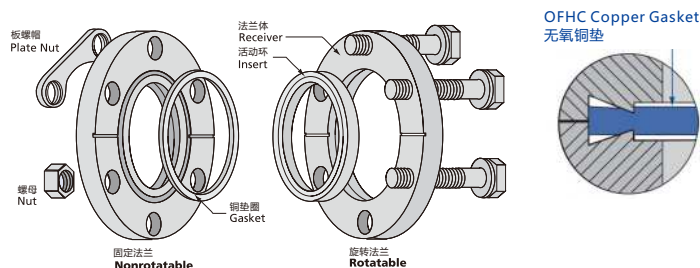
CF法兰可提供带螺栓孔和通孔,螺栓孔又分为UNC/UNF螺纹和公制螺纹。为了方便安装,CF法兰分为固定法兰和旋转活套法兰,对于安装角度有要求的安装场所,可以选用旋转活套法兰。螺栓法兰通常是上法兰是通孔,配套下法兰攻螺纹,不锈钢螺栓穿过通孔法兰锁在攻螺纹的法兰上,不需要螺母。通孔法兰可以通过不锈钢螺栓、六角螺母或板螺母来连接。板螺母的两边是两个相邻的洞,拧螺栓时,可用一个手指起到固定作用。它们适用于外径1.33"到10" (33.8-254MM) 的大多数CF法兰。作为六角螺栓的替代,12角型螺栓可以适用于外径1.33"到10" (33.8-254MM) 的CF法兰。镀银螺栓在洁净室环境中无需使用防卡剂。

■ ASSEMBLY INSTRUCTIONS FOR CF FLANGES

CF法兰可安装步骤

1. Apply a small amount of high temperature anti-seize compound to the bolt threads.
2. Check that both flange surfaces are clean and sealing edges are free from nicks and scratches.
3. Using clean, lint free gloves, unpack gasket.
4. Place gasket in the knife edge counterbore of nonrotatable flange.
5. Align the mating hole pattern and leak test grooves.
6. Install the proper bolts and tighten hand tight. Check to see that the flange faces are parallel.
7. Tighten the bolts 1/4 to 1/2 turns using a star pattern until the flange faces are metal to metal.
8. Torque the fasteners to the listed value using the same pattern.

- 1.在螺栓上涂抹少量高温防卡剂。
- 2.检查法兰的表面是否洁净,密封圈边缘是否有缺口或划痕。
- 3.使用干净的无绒毛手套,取出垫圈。
- 4.将垫圈放置在固定法兰的刀口处。
- 5.对齐螺栓孔和检漏槽的位置。
- 6.安装合适的螺栓并用手拧紧,检查法兰面是否平行。
- 7.使用扳手拧紧螺栓1/4到1/2圈,直到密封面和垫圈切合。
- 8.使用相同的扳手,拧紧螺栓。



- * U.S. manufacturers of CF flanges name them according to their outer diameter measured in inches i.e. a CF600 flange has an outer diameter of approximately 6 inches.
- * European identification for these flanges is expressed in a variety of ways; the flange outer diameter is measured in millimeters or the flange inner diameter counterbore(the area machined to accept tubing for welding)is measured in millimeters or the inner diameter of the largest through bore is measured in millimeters. Measurements are rounded to the nearest millimeter for naming purposes.
- * U.S. and Metric CF flanges are compatible. The only difference in design is that metric flanges have a metric bolt thread machined into tapped bolt holes. QiMing can provide both metric tapped flanges on request.

U.S.Flange Size 美国规格	DIN Standard DIN 规格	European Sizes 欧洲规格	Flange Outer Dia	
			Inch英寸	Millimeter毫米
CF133	DN16 CF	CF16	1.33"	33.8
CF212		CF25	2.12"	53.8
CF275	DN35 CF	CF35	2.75"	70
CF275		CF40	2.75"	85.7
CF338		CF50	3.38"	114.3
CF450	DN63 CF	CF63	4.5"	117.5
CF462		CF80	4.62"	152.4
CF600	DN100 CF	CF100	6"	203.2
CF675		CF130	6.75"	254
CF800	DN150 CF	CF160	8"	304
CF1000	DN200 CF	CF200	10"	336.6
CF1200	DN250 CF	CF250	12"	355.6
CF1325		CF270	13.25"	419.1
CF1400	DN300 CF	CF300	14"	355.6
CF1650	DN350 CF	CF350	16.5"	419.1

- * 美国习惯根据法兰的外径(以英寸为单位)来命名CF法兰的规格,如CF600法兰的外径约为6英寸。
- * 欧洲有多种方式来命名CF法兰的规格:法兰的外径(以毫米为单位),或者法兰内焊孔径(以毫米为单位),或最大通孔尺寸(以毫米为单位)。测量的数值四舍五入。
- * 美制和公制的法兰是通用的,唯一的区别就是螺栓孔的螺栓标准。启明可以提供两种螺纹标准的CF法兰。



CF BLANKER, FIXED/CF盲板

* Material:SS304/SS316L

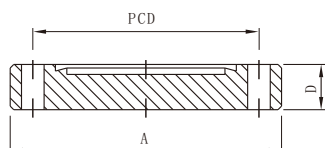
* 材质:SS304/SS316L

* Tapped and Through Holes

* 螺栓孔/通孔

Thru Holes/通孔

Model for 304	Size/规格	A(Inch/mm)	D(Inch/mm)	Bolt Hole/盲孔		PCD(Inch/mm)	N.W. 净重/g
				Dia/尺寸	No./数量		
GBF01H1F164	CF16	1.33"/33.8	0.3"/7.6	0.172"/4.4mm	6	1.062"/26.97	
GBF01H1F254	CF25	2.12"/53.8	0.47"/11.9	0.265"/6.7mm	6	1.625"/41.28	180
GBF01H1F354	CF35	2.75"/70	0.5"/12.7	0.265"/6.7mm	6	2.312"/58.72	350
GBF01H1F504	CF50	3.38"/85.7	0.62"/15.75	0.332"/8.43mm	8	2.85"/72.39	
GBF01H1F634	CF63	4.5"/114.3	0.68"/17.4	0.332"/8.43mm	8	3.628"/92.15	
GBF01H1F804	CF80	4.62"/117.5	0.75"/19.1	0.332"/8.43mm	10	4.03"/102.4	
GBF01H1F1004	CF100	6"/152.4	0.78"/19.9	0.332"/8.43mm	16	5.128"/130.25	
GBF01H1F1604	CF160	8"/203.2	0.88"/22.3	0.332"/8.43mm	20	7.128"/181.05	
GBF01H1F2004	CF200	10"/254	0.97"/24.6	0.332"/8.43mm	24	9.128"/231.85	
GBF01H1F2504	CF250	12"/304	1.12"/28.45	0.332"/8.43mm	32	11.181"/283.97	
GBF01H1F2704	CF270	13.25"/336.6	1.12"/28.45	0.39"/9.9mm	30	12.06"/306.3	
GBF01H1F3004	CF300	14"/355.6	1.12"/28.45	0.39"/9.9mm	30	12.81"/325.4	
GBF01H1F3504	CF350	16.5"/419.1	1.12"/28.45	0.39"/9.9mm	36	15.31"/388.9	



Metric Thread/公制螺栓孔

Model for 304	Size/规格	A(Inch/mm)	D(Inch/mm)	Metric Thread/公制螺栓孔		PCD(Inch/mm)	N.W. 净重/g
				Thread/螺纹	No./数量		
GBF01M1F164	CF16	1.33"/33.8	0.3"/7.6	M4	6	1.062"/26.97	
GBF01M1F254	CF25	2.12"/53.8	0.47"/11.9	M6	6	1.625"/41.28	180
GBF01M1F354	CF35	2.75"/70	0.5"/12.7	M6	6	2.312"/58.72	350
GBF01M1F504	CF50	3.38"/85.7	0.62"/15.75	M8	8	2.85"/72.39	
GBF01M1F634	CF63	4.5"/114.3	0.68"/17.4	M8	8	3.628"/92.15	
GBF01M1F804	CF80	4.62"/117.5	0.75"/19.1	M8	10	4.03"/102.4	
GBF01M1F1004	CF100	6"/152.4	0.78"/19.9	M8	16	5.128"/130.25	
GBF01M1F1604	CF160	8"/203.2	0.88"/22.3	M8	20	7.128"/181.05	
GBF01M1F2004	CF200	10"/254	0.97"/24.6	M8	24	9.128"/231.85	
GBF01M1F2504	CF250	12"/304	1.12"/28.45	M8	32	11.181"/283.97	
GBF01M1F2704	CF270	13.25"/336.6	1.12"/28.45	M10	30	12.06"/306.3	
GBF01M1F3004	CF300	14"/355.6	1.12"/28.45	M10	30	12.81"/325.4	
GBF01M1F3504	CF350	16.5"/419.1	1.12"/28.45	M10	36	15.31"/388.9	

UNC Thread/UNC螺栓孔

Model for 304	Size/规格	A(Inch/mm)	D(Inch/mm)	UNC Thread/UNC螺栓孔		PCD(Inch/mm)	N.W. 净重/g
				Thread/螺纹	No./数量		
GBF01T1F164	CF16	1.33"/33.8	0.3"/7.6	8-32	6	1.062"/26.97	
GBF01T1F254	CF25	2.12"/53.8	0.47"/11.9	1/4-28	6	1.625"/41.28	180
GBF01T1F354	CF35	2.75"/70	0.5"/12.7	1/4-28	6	2.312"/58.72	350
GBF01T1F504	CF50	3.38"/85.7	0.62"/15.75	5/16-24	8	2.85"/72.39	
GBF01T1F634	CF63	4.5"/114.3	0.68"/17.4	5/16-24	8	3.628"/92.15	
GBF01T1F804	CF80	4.62"/117.5	0.75"/19.1	5/16-24	10	4.03"/102.4	
GBF01T1F1004	CF100	6"/152.4	0.78"/19.9	5/16-24	16	5.128"/130.25	
GBF01T1F1604	CF160	8"/203.2	0.88"/22.3	5/16-24	20	7.128"/181.05	
GBF01T1F2004	CF200	10"/254	0.97"/24.6	5/16-24	24	9.128"/231.85	
GBF01T1F2504	CF250	12"/304	1.12"/28.45	5/16-24	32	11.181"/283.97	
GBF01T1F2704	CF270	13.25"/336.6	1.12"/28.45	3/8-24	30	12.06"/306.3	
GBF01T1F3004	CF300	14"/355.6	1.12"/28.45	3/8-24	30	12.81"/325.4	
GBF01T1F3504	CF350	16.5"/419.1	1.12"/28.45	3/8-24	36	15.31"/388.9	

CF BLANKER, ROTATABLE/CF活套盲板

* Material:SS304/SS316L

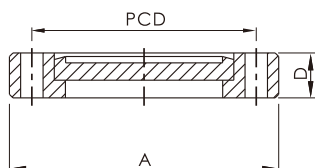
* 材质:SS304/SS316L

* Tapped and Through Holes

* 螺栓孔/通孔

Thru Holes/通孔

Model for 304	Size/规格	A(Inch/mm)	D(Inch/mm)	Bolt Hole/直孔		PCD(Inch/mm)	N.W. 净重/g
				Dia/尺寸	No./数量		
GBR01H1F164	CF16	1.33"/33.8	0.3"/7.6	0.172"/4.4mm	6	1.062"/26.97	
GBR01H1F254	CF25	2.12"/53.8	0.47"/11.9	0.265"/6.7mm	6	1.625"/41.28	
GBR01H1F354	CF35	2.75"/70	0.5"/12.7	0.265"/6.7mm	6	2.312"/58.72	
GBR01H1F504	CF50	3.38"/85.7	0.62"/15.75	0.332"/8.43mm	8	2.85"/72.39	
GBR01H1F634	CF63	4.5"/114.3	0.68"/17.4	0.332"/8.43mm	8	3.628"/92.15	
GBR01H1F804	CF80	4.62"/117.5	0.75"/19.1	0.332"/8.43mm	10	4.03"/102.4	
GBR01H1F1004	CF100	6"/152.4	0.78"/19.9	0.332"/8.43mm	16	5.128"/130.25	
GBR01H1F1604	CF160	8"/203.2	0.88"/22.3	0.332"/8.43mm	20	7.128"/181.05	
GBR01H1F2004	CF200	10"/254	0.97"/24.6	0.332"/8.43mm	24	9.128"/231.85	
GBR01H1F2504	CF250	12"/304	1.12"/28.45	0.332"/8.43mm	32	11.181"/283.97	
GBR01H1F2704	CF270	13.25"/336.6	1.12"/28.45	0.39"/9.9mm	30	12.06"/306.3	
GBR01H1F3004	CF300	14"/355.6	1.12"/28.45	0.39"/9.9mm	30	12.81"/325.4	
GBR01H1F3504	CF350	16.5"/419.1	1.12"/28.45	0.39"/9.9mm	36	15.31"/388.9	



Metric Thread/公制螺栓孔

Model for 304	Size/规格	A(Inch/mm)	D(Inch/mm)	Metric Thread/公制螺栓孔		PCD(Inch/mm)	N.W. 净重/g
				Thread/螺纹	No./数量		
GBR01M1F164	CF16	1.33"/33.8	0.3"/7.6	M4	6	1.062"/26.97	
GBR01M1F254	CF25	2.12"/53.8	0.47"/11.9	M6	6	1.625"/41.28	
GBR01M1F354	CF35	2.75"/70	0.5"/12.7	M6	6	2.312"/58.72	
GBR01M1F504	CF50	3.38"/85.7	0.62"/15.75	M8	8	2.85"/72.39	
GBR01M1F634	CF63	4.5"/114.3	0.68"/17.4	M8	8	3.628"/92.15	
GBR01M1F804	CF80	4.62"/117.5	0.75"/19.1	M8	10	4.03"/102.4	
GBR01M1F1004	CF100	6"/152.4	0.78"/19.9	M8	16	5.128"/130.25	
GBR01M1F1604	CF160	8"/203.2	0.88"/22.3	M8	20	7.128"/181.05	
GBR01M1F2004	CF200	10"/254	0.97"/24.6	M8	24	9.128"/231.85	
GBR01M1F2504	CF250	12"/304	1.12"/28.45	M8	32	11.181"/283.97	
GBR01M1F2704	CF270	13.25"/336.6	1.12"/28.45	M10	30	12.06"/306.3	
GBR01M1F3004	CF300	14"/355.6	1.12"/28.45	M10	30	12.81"/325.4	
GBR01M1F3504	CF350	16.5"/419.1	1.12"/28.45	M10	36	15.31"/388.9	

UNC Thread/UNC螺栓孔

Model for 304	Size/规格	A(Inch/mm)	D(Inch/mm)	UNC Thread/UNC螺栓孔		PCD(Inch/mm)	N.W. 净重/g
				Thread/螺纹	No./数量		
GBR01T1F164	CF16	1.33"/33.8	0.3"/7.6	8-32	6	1.062"/26.97	
GBR01T1F254	CF25	2.12"/53.8	0.47"/11.9	1/4-28	6	1.625"/41.28	
GBR01T1F354	CF35	2.75"/70	0.5"/12.7	1/4-28	6	2.312"/58.72	
GBR01T1F504	CF50	3.38"/85.7	0.62"/15.75	5/16-24	8	2.85"/72.39	
GBR01T1F634	CF63	4.5"/114.3	0.68"/17.4	5/16-24	8	3.628"/92.15	
GBR01T1F804	CF80	4.62"/117.5	0.75"/19.1	5/16-24	10	4.03"/102.4	
GBR01T1F1004	CF100	6"/152.4	0.78"/19.9	5/16-24	16	5.128"/130.25	
GBR01T1F1604	CF160	8"/203.2	0.88"/22.3	5/16-24	20	7.128"/181.05	
GBR01T1F2004	CF200	10"/254	0.97"/24.6	5/16-24	24	9.128"/231.85	
GBR01T1F2504	CF250	12"/304	1.12"/28.45	5/16-24	32	11.181"/283.97	
GBR01T1F2704	CF270	13.25"/336.6	1.12"/28.45	3/8-24	30	12.06"/306.3	
GBR01T1F3004	CF300	14"/355.6	1.12"/28.45	3/8-24	30	12.81"/325.4	
GBR01T1F3504	CF350	16.5"/419.1	1.12"/28.45	3/8-24	36	15.31"/388.9	



CF BORED FLANGES/CF内焊法兰

* Material:SS304/SS316L

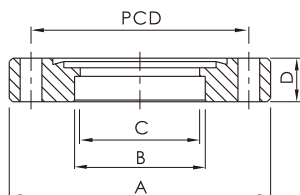
* 材质:SS304/SS316L

* Tapped and Through Holes

* 螺栓孔/通孔

Thru Holes/通孔

Model for 304	Size/规格	A(Inch/mm)	B(Inch/mm)	C(Inch/mm)	D(Inch/mm)	Bolt Hole/直孔		No./数量	N.W. 净重/g
						Dia/尺寸	No		
GWFO11F160504	CF16-1/2"	1.33"/33.8	0.505"/12.83	0.505"/12.83	0.3"/7.6	0.172"/4.4mm	6	1.062"/26.97	
GWFO11F160754	CF16-3/4"	1.33"/33.8	0.755"/19.2	0.63"/16	0.3"/7.6	0.172"/4.4mm	6	1.062"/26.97	
GWFO11F251004	CF25-1"	2.12"/53.8	1.01"/25.65	0.875"/22.1	0.47"/11.9	0.265"/6.7mm	6	1.625"/41.28	
GWFO11F350754	CF35-3/4"	2.75"/70	0.755"/19.2	0.63"/16	0.5"/12.7	0.265"/6.7mm	6	2.312"/58.72	
GWFO11F351004	CF35-1"	2.75"/70	1.01"/25.65	0.875"/22.1	0.5"/12.7	0.265"/6.7mm	6	2.312"/58.72	
GWFO11F351504	CF35-1.5"	2.75"/70	1.51"/38.35	1.375"/34.9	0.5"/12.7	0.265"/6.7mm	6	2.312"/58.72	
GWFO11F501504	CF50-1.5"	3.38"/85.7	1.51"/38.35	1.375"/34.9	0.62"/15.75	0.332"/8.43mm	8	2.85"/72.39	
GWFO11F502004	CF50-2"	3.38"/85.7	2.01"/51.05	1.875"/47.63	0.62"/15.75	0.332"/8.43mm	8	2.85"/72.39	
GWFO11F632504	CF63-2.5"	4.5"/114.3	2.51"/63.75	2.375"/60.33	0.68"/17.4	0.332"/8.43mm	8	3.628"/92.15	
GWFO11F802504	CF80-2.5"	4.62"/117.5	2.51"/63.75	2.375"/60.33	0.75"/19.1	0.332"/8.43mm	10	4.03"/102.4	
GWFO11F803004	CF80-3"	4.62"/117.5	3.01"/76.45	2.875"/73.02	0.75"/19.1	0.332"/8.43mm	10	4.03"/102.4	
GWFO11F1004004	CF100-4"	6"/152.4	4.01"/101.85	3.875"/98.42	0.78"/19.9	0.332"/8.43mm	16	5.128"/130.25	
GWFO11F1606004	CF160-6"	8"/203.2	6.02"/152.9	5.835"/148.2	0.88"/22.3	0.332"/8.43mm	20	7.128"/181.05	
GWFO11F2008004	CF200-8"	10"/254	8.02"/203.7	7.834"/199	0.97"/24.6	0.332"/8.43mm	24	9.128"/231.85	
GWFO11F25010004	CF250-10"	12"/304	10.03"/254.5	9.75"/247.65	1.12"/28.45	0.332"/8.43mm	32	11.181"/283.97	



Metric Thread/公制螺栓孔

Model for 304	Size/规格	A(Inch/mm)	B(Inch/mm)	C(Inch/mm)	D(Inch/mm)	Metric Thread/公制螺栓孔		PCD(Inch/mm)	N.W. 净重/g
						Thread/螺纹	No./数量		
GWFO1M1F160504	CF16-1/2"	1.33"/33.8	0.505"/12.83	0.505"/12.83	0.3"/7.6	M4	6	1.062"/26.97	
GWFO1M1F160754	CF16-3/4"	1.33"/33.8	0.755"/19.2	0.63"/16	0.3"/7.6	M4	6	1.062"/26.97	
GWFO1M1F251004	CF25-1"	2.12"/53.8	1.01"/25.65	0.875"/22.1	0.47"/11.9	M6	6	1.625"/41.28	
GWFO1M1F350754	CF35-3/4"	2.75"/70	0.755"/19.2	0.63"/16	0.5"/12.7	M6	6	2.312"/58.72	
GWFO1M1F351004	CF35-1"	2.75"/70	1.01"/25.65	0.875"/22.1	0.5"/12.7	M6	6	2.312"/58.72	
GWFO1M1F351504	CF35-1.5"	2.75"/70	1.51"/38.35	1.375"/34.9	0.5"/12.7	M6	6	2.312"/58.72	
GWFO1M1F501504	CF50-1.5"	3.38"/85.7	1.51"/38.35	1.375"/34.9	0.62"/15.75	M8	8	2.85"/72.39	
GWFO1M1F502004	CF50-2"	3.38"/85.7	2.01"/51.05	1.875"/47.63	0.62"/15.75	M8	8	2.85"/72.39	
GWFO1M1F632504	CF63-2.5"	4.5"/114.3	2.51"/63.75	2.375"/60.33	0.68"/17.4	M8	8	3.628"/92.15	
GWFO1M1F802504	CF80-2.5"	4.62"/117.5	2.51"/63.75	2.375"/60.33	0.75"/19.1	M8	10	4.03"/102.4	
GWFO1M1F803004	CF80-3"	4.62"/117.5	3.01"/76.45	2.875"/73.02	0.75"/19.1	M8	10	4.03"/102.4	
GWFO1M1F1004004	CF100-4"	6"/152.4	4.01"/101.85	3.875"/98.42	0.78"/19.9	M8	16	5.128"/130.25	
GWFO1M1F1606004	CF160-6"	8"/203.2	6.02"/152.9	5.835"/148.2	0.88"/22.3	M8	20	7.128"/181.05	
GWFO1M1F2008004	CF200-8"	10"/254	8.02"/203.7	7.834"/199	0.97"/24.6	M8	24	9.128"/231.85	
GWFO1M1F25010004	CF250-10"	12"/304	10.03"/254.5	9.75"/247.65	1.12"/28.45	M8	32	11.181"/283.97	

UNC Thread/UNC螺栓孔

Model for 304	Size/规格	A(Inch/mm)	B(Inch/mm)	C(Inch/mm)	D(Inch/mm)	UNC Thread/UNC螺栓孔		PCD(Inch/mm)	N.W. 净重/g
						Thread/螺纹	No./数量		
GWFO1T1F160504	CF16-1/2"	1.33"/33.8	0.505"/12.83	0.505"/12.83	0.3"/7.6	8-32	6	1.062"/26.97	
GWFO1T1F160754	CF16-3/4"	1.33"/33.8	0.755"/19.2	0.63"/16	0.3"/7.6	8-32	6	1.062"/26.97	
GWFO1T1F251004	CF25-1"	2.12"/53.8	1.01"/25.65	0.875"/22.1	0.47"/11.9	1/4-28	6	1.625"/41.28	
GWFO1T1F350754	CF35-3/4"	2.75"/70	0.755"/19.2	0.63"/16	0.5"/12.7	1/4-28	6	2.312"/58.72	
GWFO1T1F351004	CF35-1"	2.75"/70	1.01"/25.65	0.875"/22.1	0.5"/12.7	1/4-28	6	2.312"/58.72	
GWFO1T1F351504	CF35-1.5"	2.75"/70	1.51"/38.35	1.375"/34.9	0.5"/12.7	1/4-28	6	2.312"/58.72	
GWFO1T1F501504	CF50-1.5"	3.38"/85.7	1.51"/38.35	1.375"/34.9	0.62"/15.75	5/16-24	8	2.85"/72.39	
GWFO1T1F502004	CF50-2"	3.38"/85.7	2.01"/51.05	1.875"/47.63	0.62"/15.75	5/16-24	8	2.85"/72.39	
GWFO1T1F632504	CF63-2.5"	4.5"/114.3	2.51"/63.75	2.375"/60.33	0.68"/17.4	5/16-24	8	3.628"/92.15	
GWFO1T1F802504	CF80-2.5"	4.62"/117.5	2.51"/63.75	2.375"/60.33	0.75"/19.1	5/16-24	10	4.03"/102.4	
GWFO1T1F803004	CF80-3"	4.62"/117.5	3.01"/76.45	2.875"/73.02	0.75"/19.1	5/16-24	10	4.03"/102.4	
GWFO1T1F1004004	CF100-4"	6"/152.4	4.01"/101.85	3.875"/98.42	0.78"/19.9	5/16-24	16	5.128"/130.25	
GWFO1T1F1606004	CF160-6"	8"/203.2	6.02"/152.9	5.835"/148.2	0.88"/22.3	5/16-24	20	7.128"/181.05	
GWFO1T1F2008004	CF200-8"	10"/254	8.02"/203.7	7.834"/199	0.97"/24.6	5/16-24	24	9.128"/231.85	
GWFO1T1F25010004	CF250-10"	12"/304	10.03"/254.5	9.75"/247.65	1.12"/28.45	5/16-24	32	11.181"/283.97	



CF BORED FLANGES, ROTATABLE/CF活套内焊法兰

* Material:SS304/SS316L

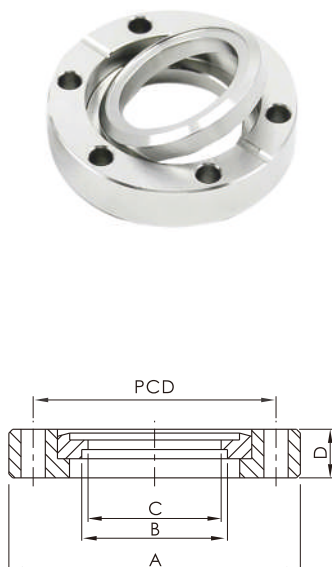
* 材质:SS304/SS316L

* Tapped and Through Holes

* 螺栓孔/通孔

Thru Holes/通孔

Model for 304	Size/规格	A(Inch/mm)	B(Inch/mm)	C(Inch/mm)	D(Inch/mm)	Bolt Hole/直孔		PCD	N.W. 净重/g
						Dia/尺寸	No./数量		
GWR01H1F160504	CF16-1/2"	1.33"/33.8	0.505"/12.83	0.505"/12.83	0.3"/7.6	0.172"/4.4mm	6	1.062"/26.97	
GWR01H1F160754	CF16-3/4"	1.33"/33.8	0.755"/19.2	0.63"/16	0.3"/7.6	0.172"/4.4mm	6	1.062"/26.97	
GWR01H1F251004	CF25-1"	2.12"/53.8	1.01"/25.65	0.875"/22.1	0.47"/11.9	0.265"/6.7mm	6	1.625"/41.28	
GWR01H1F350754	CF35-3/4"	2.75"/70	0.755"/19.2	0.63"/16	0.5"/12.7	0.265"/6.7mm	6	2.312"/58.72	
GWR01H1F351004	CF35-1"	2.75"/70	1.01"/25.65	0.875"/22.1	0.5"/12.7	0.265"/6.7mm	6	2.312"/58.72	
GWR01H1F351504	CF35-1.5"	2.75"/70	1.51"/38.35	1.375"/34.9	0.5"/12.7	0.265"/6.7mm	6	2.312"/58.72	
GWR01H1F501504	CF50-1.5"	3.38"/85.7	1.51"/38.35	1.375"/34.9	0.62"/15.75	0.332"/8.43mm	8	2.85"/72.39	
GWR01H1F502004	CF50-2"	3.38"/85.7	2.01"/51.05	1.875"/47.63	0.62"/15.75	0.332"/8.43mm	8	2.85"/72.39	
GWR01H1F632504	CF63-2.5"	4.5"/114.3	2.51"/63.75	2.375"/60.33	0.68"/17.4	0.332"/8.43mm	8	3.628"/92.15	
GWR01H1F802504	CF80-2.5"	4.62"/117.5	2.51"/63.75	2.375"/60.33	0.75"/19.1	0.332"/8.43mm	10	4.03"/102.4	
GWR01H1F803004	CF80-3"	4.62"/117.5	3.01"/76.45	2.875"/73.02	0.75"/19.1	0.332"/8.43mm	10	4.03"/102.4	
GWR01H1F1004004	CF100-4"	6"/152.4	4.01"/101.85	3.875"/98.42	0.78"/19.9	0.332"/8.43mm	16	5.128"/130.25	
GWR01H1F1606004	CF160-6"	8"/203.2	6.02"/152.9	5.835"/148.2	0.88"/22.3	0.332"/8.43mm	20	7.128"/181.05	
GWR01H1F2008004	CF200-8"	10"/254	8.02"/203.7	7.834"/199	0.97"/24.6	0.332"/8.43mm	24	9.128"/231.85	
GWR01H1F25010004	CF250-10"	12"/304	10.03"/254.5	9.75"/247.65	1.12"/28.45	0.332"/8.43mm	32	11.181"/283.97	



Metric Thread/公制螺栓孔

Model for 304	Size/规格	A(Inch/mm)	B(Inch/mm)	C(Inch/mm)	D(Inch/mm)	Metric Thread/公制螺栓孔		PCD	N.W. 净重/g
						Thread/螺纹	No./数量		
GWR01M1F160504	CF16-1/2"	1.33"/33.8	0.505"/12.83	0.505"/12.83	0.3"/7.6	M4	6	1.062"/26.97	
GWR01M1F160754	CF16-3/4"	1.33"/33.8	0.755"/19.2	0.63"/16	0.3"/7.6	M4	6	1.062"/26.97	
GWR01M1F251004	CF25-1"	2.12"/53.8	1.01"/25.65	0.875"/22.1	0.47"/11.9	M6	6	1.625"/41.28	
GWR01M1F350754	CF35-3/4"	2.75"/70	0.755"/19.2	0.63"/16	0.5"/12.7	M6	6	2.312"/58.72	
GWR01M1F351004	CF35-1"	2.75"/70	1.01"/25.65	0.875"/22.1	0.5"/12.7	M6	6	2.312"/58.72	
GWR01M1F351504	CF35-1.5"	2.75"/70	1.51"/38.35	1.375"/34.9	0.5"/12.7	M6	6	2.312"/58.72	
GWR01M1F501504	CF50-1.5"	3.38"/85.7	1.51"/38.35	1.375"/34.9	0.62"/15.75	M8	8	2.85"/72.39	
GWR01M1F502004	CF50-2"	3.38"/85.7	2.01"/51.05	1.875"/47.63	0.62"/15.75	M8	8	2.85"/72.39	
GWR01M1F632504	CF63-2.5"	4.5"/114.3	2.51"/63.75	2.375"/60.33	0.68"/17.4	M8	8	3.628"/92.15	
GWR01M1F802504	CF80-2.5"	4.62"/117.5	2.51"/63.75	2.375"/60.33	0.75"/19.1	M8	10	4.03"/102.4	
GWR01M1F803004	CF80-3"	4.62"/117.5	3.01"/76.45	2.875"/73.02	0.75"/19.1	M8	10	4.03"/102.4	
GWR01M1F1004004	CF100-4"	6"/152.4	4.01"/101.85	3.875"/98.42	0.78"/19.9	M8	16	5.128"/130.25	
GWR01M1F1606004	CF160-6"	8"/203.2	6.02"/152.9	5.835"/148.2	0.88"/22.3	M8	20	7.128"/181.05	
GWR01M1F2008004	CF200-8"	10"/254	8.02"/203.7	7.834"/199	0.97"/24.6	M8	24	9.128"/231.85	
GWR01M1F25010004	CF250-10"	12"/304	10.03"/254.5	9.75"/247.65	1.12"/28.45	M8	32	11.181"/283.97	

UNC Thread/UNC螺栓孔

Model for 304	Size/规格	A(Inch/mm)	B(Inch/mm)	C(Inch/mm)	D(Inch/mm)	UNC Thread/UNC螺栓孔		PCD	N.W. 净重/g
						Thread/螺纹	No./数量		
GWR01T1F160504	CF16-1/2"	1.33"/33.8	0.505"/12.83	0.505"/12.83	0.3"/7.6	8-32	6	1.062"/26.97	
GWR01T1F160754	CF16-3/4"	1.33"/33.8	0.755"/19.2	0.63"/16	0.3"/7.6	8-32	6	1.062"/26.97	
GWR01T1F251004	CF25-1"	2.12"/53.8	1.01"/25.65	0.875"/22.1	0.47"/11.9	1/4-28	6	1.625"/41.28	
GWR01T1F350754	CF35-3/4"	2.75"/70	0.755"/19.2	0.63"/16	0.5"/12.7	1/4-28	6	2.312"/58.72	
GWR01T1F351004	CF35-1"	2.75"/70	1.01"/25.65	0.875"/22.1	0.5"/12.7	1/4-28	6	2.312"/58.72	
GWR01T1F351504	CF35-1.5"	2.75"/70	1.51"/38.35	1.375"/34.9	0.5"/12.7	1/4-28	6	2.312"/58.72	
GWR01T1F501504	CF50-1.5"	3.38"/85.7	1.51"/38.35	1.375"/34.9	0.62"/15.75	5/16-24	8	2.85"/72.39	
GWR01T1F502004	CF50-2"	3.38"/85.7	2.01"/51.05	1.875"/47.63	0.62"/15.75	5/16-24	8	2.85"/72.39	
GWR01T1F632504	CF63-2.5"	4.5"/114.3	2.51"/63.75	2.375"/60.33	0.68"/17.4	5/16-24	8	3.628"/92.15	
GWR01T1F802504	CF80-2.5"	4.62"/117.5	2.51"/63.75	2.375"/60.33	0.75"/19.1	5/16-24	10	4.03"/102.4	
GWR01T1F803004	CF80-3"	4.62"/117.5	3.01"/76.45	2.875"/73.02	0.75"/19.1	5/16-24	10	4.03"/102.4	
GWR01T1F1004004	CF100-4"	6"/152.4	4.01"/101.85	3.875"/98.42	0.78"/19.9	5/16-24	16	5.128"/130.25	
GWR01T1F1606004	CF160-6"	8"/203.2	6.02"/152.9	5.835"/148.2	0.88"/22.3	5/16-24	20	7.128"/181.05	
GWR01T1F2008004	CF200-8"	10"/254	8.02"/203.7	7.834"/199	0.97"/24.6	5/16-24	24	9.128"/231.85	
GWR01T1F25010004	CF250-10"	12"/304	10.03"/254.5	9.75"/247.65	1.12"/28.45	5/16-24	32	11.181"/283.97	

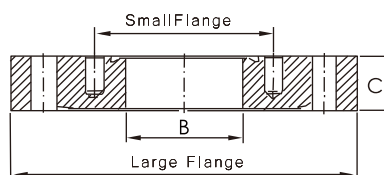


CF ZERO LENGTH REDUCERS/异径CF法兰

GBA01 Series/GBA01系列

- * Different size CF flange on both sides
- * Enable direct assembly of two different size CF flanges with minimal impact to space needed within your vacuum system.
- * At least one and when necessary both flanges have tapped bolt holes
- * Use standard CF gaskets to seal
- * Pressure range:UHV (approx. 1×10^{-9} Torr)
- * Temperature range:-200°C up to 450°C
- * Standard materials:SS304 (Options:SS304L/SS316L)

- * 两面异径法兰
- * 可以在最小的安装空间下直接组装两个不同尺寸的CF法兰
- * 可以一面螺栓孔也可以两面螺栓孔
- * 与普通CF法兰通配密封垫
- * 真空度:高真空 (大约 1×10^{-9} Torr)
- * 工作温度:-200°C up to 450°C
- * 材质:SS304(可定制SS304L/SS316L)



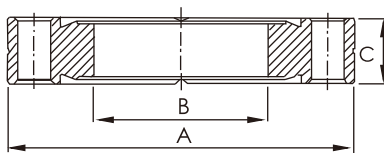
Model for 304	Size/规格	Large Flange/大法兰	Small Flange/小法兰	Tube Size/管外径	B(Inch/mm)	C(Inch/mm)	N.W.净重/g
GBA01HM1F35F160754	CF35xCF16	Thru Holes/通孔	Metric Thread/公制螺栓孔	3/4"	0.63"/16	0.5"/12.7	337.8
GBA01HM1F63F160754	CF63xCF16	Thru Holes/通孔	Metric Thread/公制螺栓孔	3/4"	0.63"/16	0.68"/17.4	
GBA01HM1F63F351504	CF63xCF35	Thru Holes/通孔	Metric Thread/公制螺栓孔	1.5"	1.51"/38.35	0.68"/17.4	1135
GBA01HM1F100F160754	CF100xCF16	Thru Holes/通孔	Metric Thread/公制螺栓孔	3/4"	0.63"/16	0.75"/19.1	
GBA01HM1F100F351504	CF100xCF35	Thru Holes/通孔	Metric Thread/公制螺栓孔	1.5"	1.51"/38.35	0.75"/19.1	2460
GBA01HM1F100F632504	CF100xCF63	Thru Holes/通孔	Metric Thread/公制螺栓孔	2.5"	2.51"/63.75	0.75"/19.1	2115
GBA01HM1F160F160754	CF160xCF16	Thru Holes/通孔	Metric Thread/公制螺栓孔	3/4"	0.63"/16	0.88"/22.3	
GBA01HM1F160F351504	CF160xCF35	Thru Holes/通孔	Metric Thread/公制螺栓孔	1.5"	1.51"/38.35	0.88"/22.3	
GBA01HM1F160F632504	CF160xCF63	Thru Holes/通孔	Metric Thread/公制螺栓孔	2.5"	2.51"/63.75	0.88"/22.3	
GBA01HM1F160F1004004	CF160xCF100	Thru Holes/通孔	Metric Thread/公制螺栓孔	4"	4.01"/101.85	0.88"/22.3	
GBA01HM1F200F160754	CF200xCF16	Thru Holes/通孔	Metric Thread/公制螺栓孔	3/4"	0.63"/16	0.97"/24.6	
GBA01HM1F200F351504	CF200xCF35	Thru Holes/通孔	Metric Thread/公制螺栓孔	1.5"	1.51"/38.35	0.97"/24.6	
GBA01HM1F200F632504	CF200xCF63	Thru Holes/通孔	Metric Thread/公制螺栓孔	2.5"	2.51"/63.75	0.97"/24.6	
GBA01HM1F200F1004004	CF200xCF100	Thru Holes/通孔	Metric Thread/公制螺栓孔	4"	4.01"/101.85	0.97"/24.6	
GBA01HM1F200F1506004	CF200xCF150	Thru Holes/通孔	Metric Thread/公制螺栓孔	6"	6.02"/152.9	0.97"/24.6	

Small Flange is available with UNC Thread
小法兰的螺栓孔也可以做UNC螺栓孔

CF DOUBLE FACE FLANGES/双面CF法兰

GWD01 Series/GWD01系列

- * Same size CF flange on both sides
 - * Ideal to add a spacer to your system or customize with a radial port
 - * Requires special CF double sided flange bolt kit for fastening
 - * Use standard CF gaskets to seal
 - * Pressure range:UHV (approx. 1×10^{-9} Torr)
 - * Temperature range:-200°C up to 450°C
 - * Standard materials:SS304 (Options:SS304L/SS316L)
- * 两面同规格CF法兰
 - * 适用于在真空管道系统中添加间隔器或自定义径向端口
 - * 需要定制螺栓配件连接
 - * 与普通CF法兰通配密封垫
 - * 真空度:高真空 (大约 1×10^{-9} Torr)
 - * 工作温度:-200°C up to 450°C
 - * 材质:SS304(可定制SS304L/SS316L)



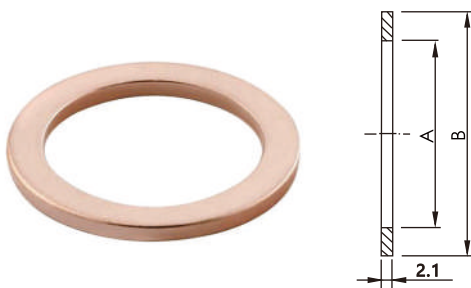
Model for 304	Size/规格	Type/孔类型	A(Inch/mm)	B(Inch/mm)	C(Inch/mm)	N.W.净重/g
GWD01H1F160754	CF16-3/4"	Thru Holes/通孔	1.33"/33.8	0.63"/16	0.3"/7.6	
GWD01H1F251004	CF25-1"	Thru Holes/通孔	2.12"/53.8	1.01"/25.65	0.47"/11.9	
GWD01H1F351504	CF35-1.5"	Thru Holes/通孔	2.75"/70	1.51"/38.35	0.5"/12.7	
GWD01H1F632504	CF63-2.5"	Thru Holes/通孔	4.5"/114.3	2.51"/63.75	0.68"/17.4	
GWD01H1F1004004	CF100-4"	Thru Holes/通孔	6"/152.4	4.01"/101.85	0.78"/19.9	
GWD01H1F1606004	CF160-6"	Thru Holes/通孔	8"/203.2	6.02"/152.9	0.97"/24.6	
GWD01H1F2008004	CF200-8"	Thru Holes/通孔	10"/254	8.02"/203.7	1.12"/28.45	
GWD01H1F25010004	CF250-10"	Thru Holes/通孔	12"/304	10.03"/254.5	1.12"/28.45	



OFHC COPPER SEALS/CF无氧铜垫

* Material: Copper

* 材质: 无氧铜



Model for Copper	Size/规格	A(Inch/mm)	B(Inch/mm)	N.W.净重/g
SGC011F169	CF16	0.64"/16.2	0.835"/21.25	3
SGC011F209	CF20	1.295"/32.9	0.866"/22	
SGC011F259	CF25	1.01"/25.65	1.29"/32.77	8
SGC011F359	CF35	1.45"/36.8	1.895"/48.1	16
SGC011F409	CF40	1.53"/39	1.895"/48.1	
SGC011F509	CF50	2.01"/51.05	2.425"/61.6	17
SGC011F639	CF63	2.505"/63.6	3.24"/82.35	43
SGC011F809	CF80	3.228"/82	3.898"/99	51.4
SGC011F1009	CF100	4.006"/101.8	4.743"/120.45	68
SGC011F1309	CF130	5.01"/127.25	5.567"/141.4	
SGC011F1609	CF160	6.007"/152.6	6.745"/171.25	98
SGC011F2009	CF200	8.007"/203.4	8.745"/222.05	121
SGC011F2509	CF250	10"/254	10.745"/272.85	172
SGC011F2709	CF270	10.875"/274	11.588"/294.34	
SGC011F3009	CF300	11.8"/300	12.33"/313	
SGC011F3509	CF350	14.117"/356.5	14.827"/376.6	

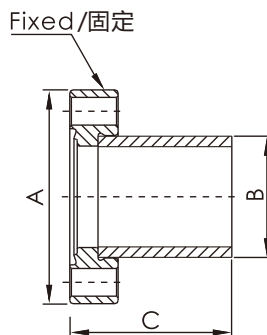
CF FLANGE PLASTIC CAP/CF塑料保护盖

* Material: White PE

* 材质: 白色PE



Model for White PE	Size/规格	A/mm	B/mm
CPV011F16W1	CF16	36.2	34.2
CPV011F25W1	CF25	56.4	54
CPV011F35W1	CF35	72.1	70.1
CPV011F50W1	CF50	88.5	85.9
CPV011F63W1	CF63	118.3	113.5
CPV011F80W1	CF80	120.5	117.6
CPV011F100W1	CF100	156.4	151.6
CPV011F130W1	CF130	173.8	171.6
CPV011F160W1	CF160	206	202
CPV011F200W1	CF200	258	254
CPV011F250W1	CF250	309	304.6
CPV011F270W1	CF270	341.1	336.7
CPV011F300W1	CF300	360.1	355.7



CF HALF NIPPLE/CF法兰接头

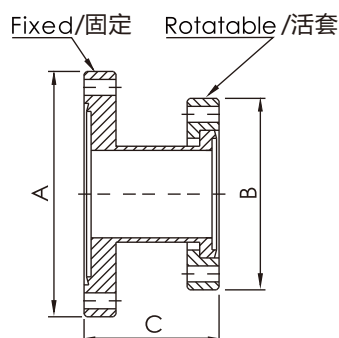
* Material:SS304/SS316L

* 材质:SS304/SS316L

* Tapped and Through Holes

* 螺栓孔/通孔

Model for 304	Size/规格	Type/孔类型	A(Inch/mm)	B(Inch/mm)	C/mm	N.W.净重/g
FLW61H1F16050L384	CF16-1/2"	Thru Holes/通孔	1.33"/33.8	0.5"/12.7	38	
FLW61H1F16075L384	CF16-3/4"	Thru Holes/通孔	1.33"/33.8	0.75"/19.05	38	
FLW61H1F35075L634	CF35-3/4"	Thru Holes/通孔	2.75"/70	0.75"/19.05	63	
FLW61H1F35100L634	CF35-1"	Thru Holes/通孔	2.75"/70	1"/25.4	63	
FLW61H1F35150L634	CF35-1.5"	Thru Holes/通孔	2.75"/70	1.5"/38.1	63	
FLW61H1F63250L854	CF63-2.5"	Thru Holes/通孔	4.5"/114.3	2.5"/63.5	85	
FLW61H1F100400L1104	CF100-4"	Thru Holes/通孔	6"/152.4	4"/101.6	110	
FLW61H1F160600L1404	CF160-6"	Thru Holes/通孔	8"/203.2	6"/152.4	140	
FLW61H1F200800L2004	CF200-8"	Thru Holes/通孔	10"/254	8"/203.2	200	
FLW61H1F2501000L2504	CF250-10"	Thru Holes/通孔	12"/304	10"/254	250	



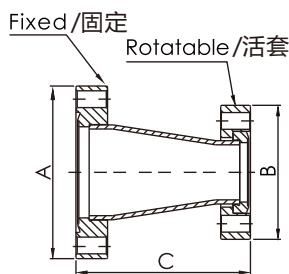
CF STRAIGHT REDUCING NIPPLE/CF异径接头

* Material:SS304/SS316L

* 材质:SS304/SS316L

Model for 304	Size/规格	Type/孔类型	A(Inch/mm)	B(Inch/mm)	C/mm	管外径OD/mm	N.W.净重/g
FRG02H1F35F164	CF35xCF16	Thru Holes/通孔	2.75"/70	1.33"/33.8	45	19.05	
FRG02H1F63F164	CF63xCF16	Thru Holes/通孔	4.5"/114.3	1.33"/33.8	70	19.05	
FRG02H1F63F354	CF63xCF35	Thru Holes/通孔	4.5"/114.3	2.75"/70	75	38.1	
FRG02H1F100F354	CF100xCF35	Thru Holes/通孔	6"/152.4	2.75"/70	127	38.1	
FRG02H1F100F634	CF100xCF63	Thru Holes/通孔	6"/152.4	4.5"/114.3	95	63.5	
FRG02H1F160F354	CF160xCF35	Thru Holes/通孔	8"/203.2	2.75"/70	127	38.1	
FRG02H1F160F634	CF160xCF63	Thru Holes/通孔	8"/203.2	4.5"/114.3	127	63.5	
FRG02H1F160F1004	CF160xCF100	Thru Holes/通孔	8"/203.2	6"/152.4	127	101.6	



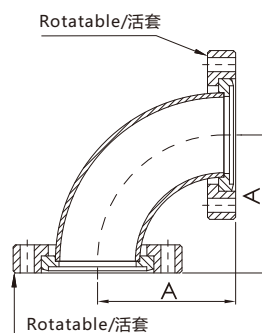


CF CONICAL REDUCER/CF大小头

* Material:SS304/SS316L

* 材质:SS304/SS316L

Model for 304	Size/规格	Type/孔类型	A(Inch/mm)	B(Inch/mm)	C/mm	N.W.净重/g
FRG01H1F25F164	CF25xCF16	Thru Holes/通孔	2.12"/53.8	1.33"/33.8	52	
FRG01H1F35F164	CF35xCF16	Thru Holes/通孔	2.75"/70	1.33"/33.8	78	
FRG01H1F35F254	CF35xCF25	Thru Holes/通孔	2.75"/70	2.12"/53.8	70	
FRG01H1F50F254	CF50xCF25	Thru Holes/通孔	3.38"/85.7	2.12"/53.8	70.3	
FRG01H1F50F354	CF50xCF35	Thru Holes/通孔	3.38"/85.7	2.75"/70	71.3	
FRG01H1F63F354	CF63xCF35	Thru Holes/通孔	4.5"/114.3	2.75"/70	75.2	
FRG01H1F63F504	CF63xCF50	Thru Holes/通孔	4.5"/114.3	3.38"/85.7	75.6	
FRG01H1F80F354	CF80xCF35	Thru Holes/通孔	4.62"/117.5	2.75"/70	104.5	
FRG01H1F80F504	CF80xCF50	Thru Holes/通孔	4.62"/117.5	3.38"/85.7	104.9	
FRG01H1F80F634	CF80xCF63	Thru Holes/通孔	4.62"/117.5	4.5"/114.3	108.7	
FRG01H1F100F504	CF100xCF50	Thru Holes/通孔	6"/152.4	3.38"/85.7	108.9	
FRG01H1F100F634	CF100xCF63	Thru Holes/通孔	6"/152.4	4.5"/114.3	112.7	
FRG01H1F100F904	CF100xCF80	Thru Holes/通孔	6"/152.4	4.62"/117.5	110.3	



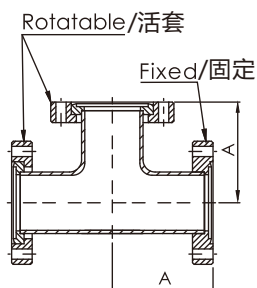
CF 90° ELBOW/CF90度弯头

* Material:SS304/SS316L

* 材质:SS304/SS316L

Model for 304	Size/规格	Type/孔类型	Flange D(Inch/mm)	A/mm	Tube Size/管外径	N.W.净重/g
FEG01H1F160754	CF16-3/4"	Thru Holes/通孔	1.33"/33.8	38	3/4"	
FEG01H1F251004	CF25-1"	Thru Holes/通孔	2.12"/53.8	58	1"	
FEG01H1F351504	CF35-1.5"	Thru Holes/通孔	2.75"/70	63	1.5"	
FEG01H1F502004	CF50-2"	Thru Holes/通孔	3.38"/85.7	80	2"	
FEG01H1F632504	CF63-2.5"	Thru Holes/通孔	4.5"/114.3	105	2.5"	
FEG01H1F803004	CF80-3"	Thru Holes/通孔	4.62"/117.5	118	3"	
FEG01H1F1004004	CF100-4"	Thru Holes/通孔	6"/152.4	135	4"	



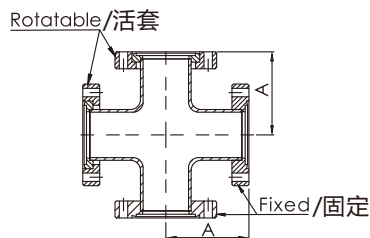


CF EQUAL TEE/CF三通

* Material:SS304/SS316L

* 材质:SS304/SS316L

Model for 304	Size/规格	Type/孔类型	Flange OD(Inch/mm)	A/mm	Tube Size	N.W/g
FTG01H1F160754	CF16-3/4"	Thru Holes/通孔	1.33"/33.8	38	3/4"	
FTG01H1F251004	CF25-1"	Thru Holes/通孔	2.12"/53.8	58	1"	
FTG01H1F351504	CF35-1.5"	Thru Holes/通孔	2.75"/70	63	1.5"	
FTG01H1F502004	CF50-2"	Thru Holes/通孔	3.38"/85.7	80	2"	
FTG01H1F632504	CF63-2.5"	Thru Holes/通孔	4.5"/114.3	105	2.5"	
FTG01H1F803004	CF80-3"	Thru Holes/通孔	4.62"/117.5	118	3"	
FTG01H1F1004004	CF100-4"	Thru Holes/通孔	6"/152.4	135	4"	

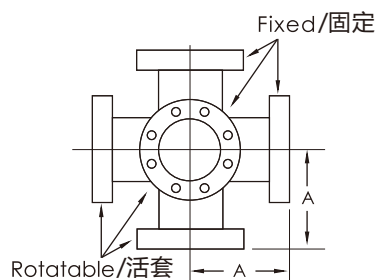


CF 4-WAY CROSS/CF四通

* Material:SS304/SS316L

* 材质:SS304/SS316L

Model for 304	Size/规格	Type/孔类型	Flange OD(Inch/mm)	A/mm	Tube Size/管外径	N.W/净重/g
FXG41H1F160754	CF16-3/4"	Thru Holes/通孔	1.33"/33.8	38	3/4"	
FXG41H1F251004	CF25-1"	Thru Holes/通孔	2.12"/53.8	58	1"	
FXG41H1F351504	CF35-1.5"	Thru Holes/通孔	2.75"/70	63	1.5"	
FXG41H1F502004	CF50-2"	Thru Holes/通孔	3.38"/85.7	80	2"	
FXG41H1F632504	CF63-2.5"	Thru Holes/通孔	4.5"/114.3	105	2.5"	
FXG41H1F803004	CF80-3"	Thru Holes/通孔	4.62"/117.5	118	3"	
FXG41H1F1004004	CF100-4"	Thru Holes/通孔	6"/152.4	135	4"	



CF 6-WAY CROSS/CF六通

* Material:SS304/SS316L

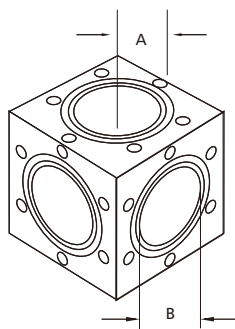
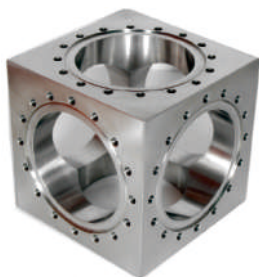
* 材质:SS304/SS316L

Model for 304	Size/规格	Type/孔类型	Flange OD(Inch/mm)	A(Inch/mm)	Tube/管外径	N.W.净重/g
FXG61H1F160754	CF16-3/4"	Thru Holes/通孔	1.33"/33.8	1.5"/38.05	3/4"	
FXG61H1F251004	CF25-1"	Thru Holes/通孔	2.12"/53.8	2.05"/52.1	1"	
FXG61H1F351504	CF35-1.5"	Thru Holes/通孔	2.75"/70	2.46"/62.5	1.5"	
FXG61H1F502004	CF50-2"	Thru Holes/通孔	3.38"/85.7	3.22"/81.8	2"	
FXG61H1F632504	CF63-2.5"	Thru Holes/通孔	4.5"/114.3	3.38"/85.85	2.5"	
FXG61H1F803004	CF80-3"	Thru Holes/通孔	4.62"/117.5	3.63"/92.2	3"	
FXG61H1F1004004	CF100-4"	Thru Holes/通孔	6"/152.4	4.32"/109.7	4"	

CF 6-WAY CUBE/CF六通立方体

- * Machined from solid cube material – no welds
- * Bolt holes orientation allows use of standard CF bolt kits for tapped bolt hole flanges
- * Both Metric Thread & UNC thread available
- * Material:SS304/SS316L

- * 一体加工,不焊接
- * 与普通的带螺栓孔的CF法兰通用
- * 可定制公制或美制UNC螺纹
- * 材质:SS304/SS316L

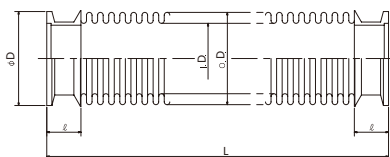


Metric Tapped/公制螺纹

Model for 304	Size/规格	Type/孔类型	A(Inch/mm)	B(Inch/mm)	N.W.净重/g
GCU01M1F164	CF16	M4*6	0.67"/17	0.63"/16	
GCU01M1F354	CF35	M6*6	1.38"/35.05	1.5"/38.1	1320
GCU01M1F504	CF50	M8*8	1.68"/42.67	2"/50.8	2080
GCU01M1F634	CF63	M8*8	2.23"/56.65	2.5"/63.5	5700
GCU01M1F1004	CF100	M8*16	2.98"/75.7	4"/101.6	
GCU01M1F1604	CF160	M8*20	3.98"/101.1	6"/152.4	
GCU01M1F2004	CF200	M8*32	4.98"/126.5	8"/203.4	



KF BELLOWS/KF波纹管

**Standard specifications:**

- * Material:Hose:SUS304,SUS316L
- * NW flange:SUS304,SUS316L
- * Working Pressure:Vacuum ~ atmospheric pressure
- * Vacuum Range:1x10⁻⁹ Torr
- * Hose Thickness:0.15mm or 0.2mm for KF16-KF50
0.2mm for KF63-KF100
0.25mm for KF125-KF160
0.3mm for KF200

标准参数:

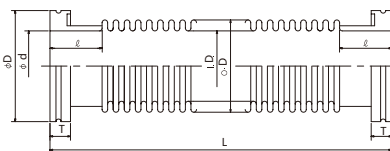
- * 材质:软管:SUS304,SUS316L
- * KF法兰:SUS304,SUS316L
- * 工作压力:真空 ~ 大气压
- * 真空度:1x10⁻⁹ Torr
- * 软管厚度:KF16-KF50:0.15mm or 0.2mm
KF63-KF100:0.2mm
KF125-KF160:0.25mm
KF200 0.3mm

Model for 304	Size/规格	ID/mm	OD/mm	D/mm	ℓ/mm	L/mm
FVK011K16L1004	KF16	20	31	30	12.7	100
FVK011K25L1004	KF25	25.2	36.5	40	12.7	100
FVK011K40L1004	KF40	38.2	56	55	12.7	100
FVK011K50L1004	KF50	50.2	66.5	75	12.7	100
FVK011K63L1004	KF63	65	86	87	25	100
FVK011K80L1004	KF80	80	100	114	25	100
FVK011K100L1004	KF100	100	125	134	25	100

* Length L can be customized

* 长度L可定制

ISO-K BELLOWS/ISO-K波纹管

**Standard specifications:**

- * Material:Hose:SUS304,SUS316L
- * NW flange:SUS304,SUS316L
- * Working Pressure:Vacuum ~ atmospheric pressure
- * Vacuum Range:1x10⁻⁹ Torr
- * Hose Thickness:0.2mm for ISO63-ISO100
0.25mm for ISO125-ISO160
0.3mm for ISO200

标准参数:

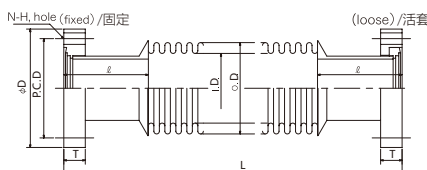
- * 材质:软管:SUS304,SUS316L
- * ISO-K法兰:SUS304,SUS316L
- * 工作压力:真空 ~ 大气压
- * 真空度:1x10⁻⁹ Torr
- * 软管厚度:ISO63-ISO100:0.2mm
ISO125-ISO160:0.25mm
ISO200 0.3mm

Model for 304	Size/规格	ID/mm	OD/mm	D/mm	ℓ/mm	L/mm
FVS011M63L1004	ISO63	65	86	95	25	100
FVS011M80L1004	ISO80	80	100	110	25	100
FVS011M100L1004	ISO100	100	125	130	25	100
FVS011M125L1004	ISO125	125	150	155	25	100
FVS011M160L1004	ISO160	150	178	180	25	100
FVS011M200L1004	ISO200	200	230	240	25	100

* Length L can be customized

* 长度L可定制

CF BELLOWS/CF波纹管

**Standard specifications:**

- * Material:Hose:SUS304,SUS316L
- * NW flange:SUS304,SUS316L
- * Working Pressure:Vacuum ~ Atmospheric Pressure
- * Vacuum Range:1x10⁻⁹ Torr
- * Hose Thickness:CF16-CF35:0.15mm
CF63:0.2mm

标准参数:

- * 材质:软管:SUS304,SUS316L
- * CF法兰:SUS304,SUS316L
- * 工作压力:真空 ~ 大气压
- * 真空度:1x10⁻⁹ Torr
- * 软管厚度:CF16-CF35:0.15mm
CF63:0.2mm

Model for 304	Size/规格	ID/mm	OD/mm	D/mm	ℓ/mm	L/mm
FVG011F16L1004	CF16	20	31	33.8	30	100
FVG011F35L1004	CF35	38.2	56	70	30	100
FVG011F63L1004	CF63	65	89	114.3	30	100

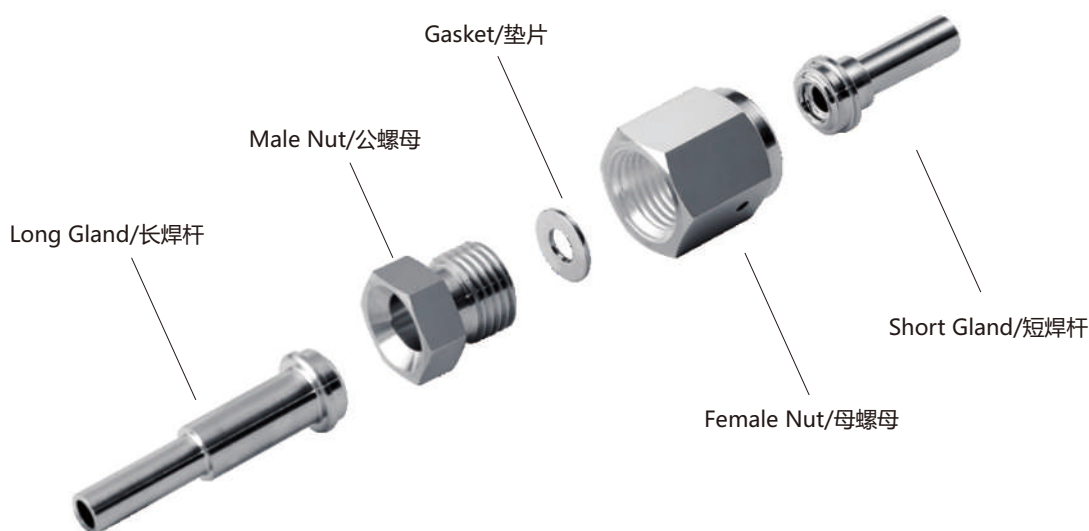
*Length L can be customized

*长度L可定制

■ Metal Face Seal/硬密封接头 QCR Series/QCR系列

QiiMii metal face seal (QCR) fittings can be used as a high purity components in high vacuum or high pressure system. When the female and male nuts are tightened, the gasket is compressed by two highly polished circular flanges. The visual inspection and leak test are carried out through two ports at opposite positions to the internally threaded nut.

QCR接头能够用作金属与金属之间的高纯净密封件,在高真空或高压组件中起密封作用。当外螺纹和内螺纹螺母啮合时,垫片被两个经过高度抛光的圆形凸缘压紧以达到密封作用,可通过与内螺纹螺母检漏口进行目视检查和泄漏测试。



Surface Finishing/表面处理

Surface Finishing/表面处理	Surface Roughness/表面粗糙度
BA	0.4-1.0 μm
EP	0.13-0.25 μm

Temperature Rating/温度

Material/材质	$^{\circ}\text{F}$	$^{\circ}\text{C}$
SS316L	1000	538

Pressure Ratings/压力

Tube O.D./管外径	Wall Thickness/壁厚	Pressure Rating/压力	
		Psi	Bar
1/8"	0.028"(0.71mm)	8550	590
1/4"	0.035"(0.89mm)	5200	359
3/8"	0.035"(0.89mm)	3350	231
1/2"	0.049"(1.24mm)	3750	259
3/4"	0.065"(1.65mm)	2400	165
1"	0.065"(1.65mm)	2400	165

Plating/镀层

Female nuts are silver plated for easy of assembly, consistent make-up, prevention of galling and reduction of the torque required for fitting assembling.

内螺纹螺母镀银, 便于组装, 组装一致, 防止磨损, 减少配件组装所需的扭矩。



Assembly Instruction/安装说明

Step 1/第一步



Insert gasket into female nut and make sure the gasket is settled in proper position. Also make sure no damages on seal part while inserting.

将垫片插入内螺纹螺母,并确保垫片固定在正确的位置。同时确保在插入时密封件没有损坏。

Step 2/第二步



Turn female nut until it comes into contact with male nut. And make sure seal part and gasket are placed in proper position.

转动内螺纹螺母,直到它与外螺纹螺母连接。并确保密封部分和垫片放置在正确的位置。

Step 3/第三步



Final tightening shall be completed by assembly tools such as tools such as two spanners. Tighten the female nut 1/8-1/6 turns with second spanner and make sure that components screwing except female nut could damage the seal part to reduce the seal capacity.

借用装配工具拧紧,如两个扳手等工具。母螺纹螺母和公螺纹螺母拧紧后,从该手指拧紧的位置开始,把内螺纹螺母再拧紧1/8圈,在拧紧内螺纹螺母过程中,要一直保持外螺纹螺母与接头体固定不动,金属面密封接头可反复拆装,每次拆装时,请使用新的垫片。

Step 4/第四步



Make sure seal part and gasket are placed in proper position.

确保密封部分和垫片放置在正确的位置。

ORDERING INFORMATION

下单信息

Product Series/ 产品编码	FDS01	Short Gland/短焊杆
	FDL01	Long Gland/长焊杆
	FDL02	High Flow Gland/高流量长焊杆
	FDN01	Female Nut/内螺纹螺母
	FDN02	High Flow Female Nut/高流量内螺纹螺母
	FDM01	Male Nut/外螺纹螺母
	FDM02	Male Nut/高流量外螺纹螺母
	FDG01	Gasket/垫片
	FDG02	Gasket Retained/带支架垫片
	FDC01	Cap/堵帽
	FDP01	Plug/堵头

QCR or Tube Size/ QCR或者导管 外径规格	2	1/8"
	4	1/4"
	6	3/8"
	8	1/2"
	12	3/4"
	16	1"

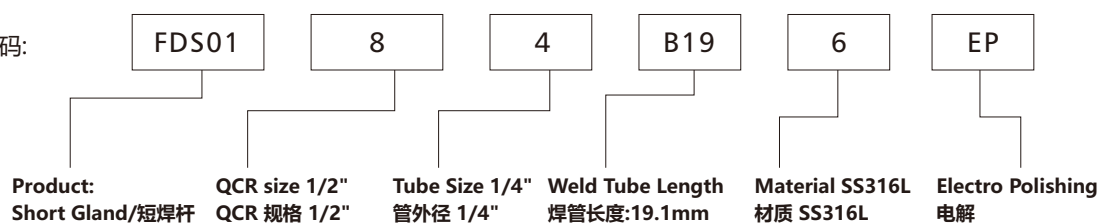
Weld Tube Length /焊管长度	B6	Weld Tube Length/焊管长度:6.4mm
	B10	Weld Tube Length/焊管长度:9.6mm
	B11	Weld Tube Length/焊管长度:10.4mm
	B19	Weld Tube Length/焊管长度:19.1mm
	B25	Weld Tube Length/焊管长度:25.4mm
	B28	Weld Tube Length/焊管长度:28.4mm

Material/材质	6	SS316L
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Surface Finishing /表面处理	BA	Bright Anneal/光亮退火
	EP	Electro Polishing/电解

Example/举例:

Model/规格编码:



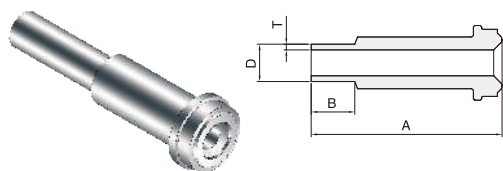
Short Gland QCR 1/2" x tube O.D. Size 1/4", weld tube length = 19.1mm, SS316L and Electro Polishing
短焊杆 QCR 规格1/2",管外径1/4", 焊管长度19.1mm,SS316L,EP等级



Long Gland/长焊杆

*Material:SS316L

*材质:不锈钢316L

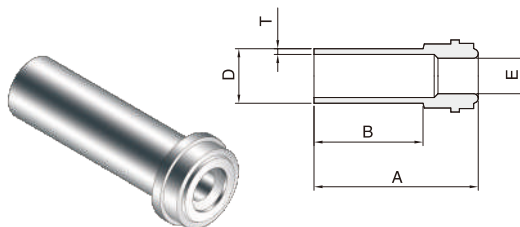


Model	QCR Size/密封面尺寸		Tube Size/导管尺寸D		A/mm	B/mm	T/mm	N.W./g
	Inch	Inch	mm					
FDL012B19	1/8	1/8	3.18		36.1	19.1	0.71	
FDL014B6	1/4	1/4	6.35		30.5	6.4	0.89	
FDL014B10	1/4	1/4	6.35		33.5	9.6	0.89	
FDL014B19	1/4	1/4	6.35		43.2	19.1	0.89	
FDL0184B19	1/2	1/4	6.35		45.7	19.1	0.89	
FDL0186B6	1/2	3/8	9.53		32.8	6.4	0.89	
FDL0186B19	1/2	3/8	9.53		45.5	19.1	0.89	
FDL018B6	1/2	1/2	12.70		32.8	6.4	1.24	
FDL018B10	1/2	1/2	12.70		35.8	9.6	1.24	
FDL018B19	1/2	1/2	12.70		45.5	19.1	1.24	
FDL0112B19	3/4	3/4	19.05		51.6	19.1	1.24	
FDL0116B19	1	1	25.40		58.9	19.1	1.65	

High Flow Long Gland/高流量长焊杆

*Material:SS316L

*材质:不锈钢316L

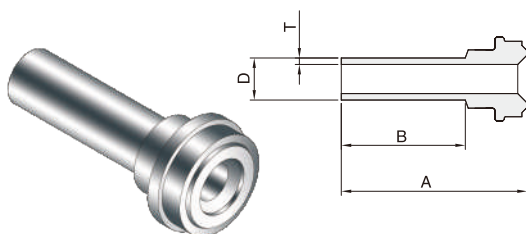


Model	QCR Size/密封面尺寸		Tube Size/导管尺寸D		A/mm	B/mm	E/mm	T/mm	N.W./g
	Inch	Inch	mm						
FDL0246B11	1/4	3/8	9.53		15.2	10.4	6.4	0.89	
FDL0246B19	1/4	3/8	9.53		28.7	19.1	6.4	0.89	
FDL0246B25	1/4	3/8	9.53		30.2	25.4	6.4	0.89	
FDL0246B28	1/4	3/8	9.53		33.3	28.4	6.4	0.89	

Short Gland/短焊杆

*Material:SS316L

*材质:不锈钢316L

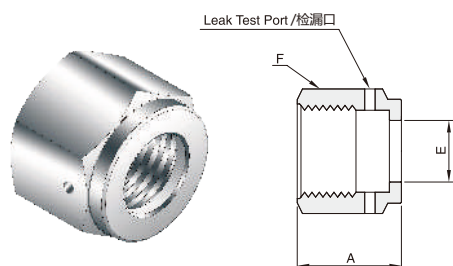


Model	QCR Size/密封面尺寸		Tube Size/导管尺寸D		A/mm	B/mm	T/mm	N.W./g
	Inch	Inch	mm					
FDS012B19	1/8	1/8	3.18		27.4	19.1	0.71	
FDS0142B19	1/4	1/8	3.18		27.9	19.1	0.71	
FDS014B6	1/4	1/4	6.35		15.2	6.4	0.89	
FDS014B10	1/4	1/4	6.35		18.3	9.6	0.89	
FDS014B19	1/4	1/4	6.35		27.9	19.1	0.89	
FDS0184B19	1/2	1/4	6.35		28.4	19.1	0.89	
FDS0186B6	1/2	3/8	9.53		15.7	6.4	0.89	
FDS0186B19	1/2	3/8	9.53		28.4	19.1	0.89	
FDS018B6	1/2	3/8	9.53		15.7	6.4	0.89	
FDS018B10	1/2	1/2	12.70		18.8	9.6	1.24	
FDS0186B19	1/2	1/2	12.70		28.4	19.1	1.24	
FDS01126B19	3/4	3/4	19.05		29	19.1	1.65	
FDS01166B19	1	1	25.40		32	19.1	1.65	

Female Nut/内螺纹螺母

*Material:SS316L

*材质:不锈钢316L

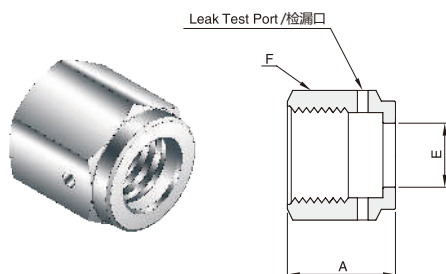


Model	QCR Size/密封面尺寸	A/mm	E/mm	F/mm	N.W./g
	Inch				
FDN012	1/8	13.5	5.3	11.1	
FDN014	1/4	20.6	9.1	19.1	
FDN018	1/2	22.4	15.5	27	
FDN0112	3/4	28.4	22.6	38.1	
FDN0116	1	34	30.5	44.5	

High Flow Female Nut/高流量内螺纹螺母

*Material:SS316L

*材质:不锈钢316L

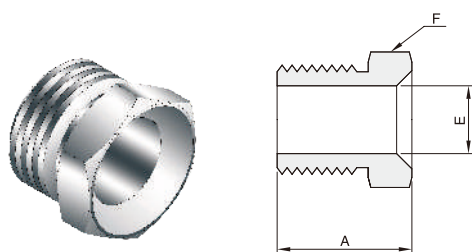


Model	QCR Size/密封面尺寸	A/mm	E/mm	F/mm	N.W./g
	Inch				
FDN024	1/4	20.6	9.9	19.1	

Male Nut/外螺纹螺母

*Material:SS316L

*材质:不锈钢316L

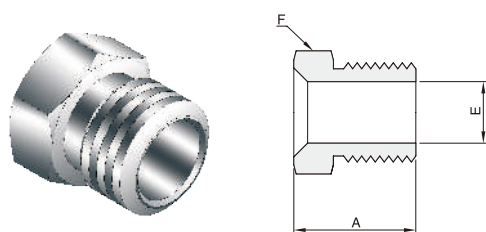


Model	QCR Size/密封面尺寸	A/mm	E/mm	F/mm	N.W./g
	Inch				
FDM012	1/8	12.7	5.3	9.5	
FDM014	1/4	18	9.1	15.9	
FDM018	1/2	20.6	15.5	23.8	
FDM0112	3/4	25.4	22.6	33.3	
FDM0116	1	30.2	30.5	41.3	

High Flow Male Nut/高流量外螺纹螺母

*Material:SS316L

*材质:不锈钢316L

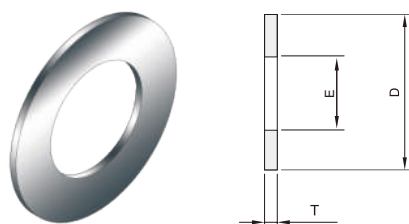


Model	QCR Size/密封面尺寸	A/mm	E/mm	F/mm	N.W./g
	Inch				
FDM024	1/4	18	9.9	15.9	

Gasket/垫片

*Material:SS316L

*材质:不锈钢316L



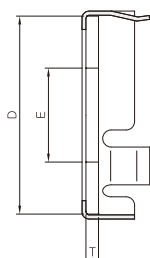
Model	QCR Size/密封面尺寸	E/mm	D/mm	T/mm	N.W./g
	Inch				
FDG012	1/8	2.3	6.6	0.7	
FDG014	1/4	5.6	11.9	0.7	
FDG018	1/2	11.2	19.8	0.7	
FDG0112	3/4	16.8	29	0.7	
FDG0116	1	22.6	35.6	0.7	



Gasket Retained/垫片支架

*Material:SS316L

*材质:不锈钢316L

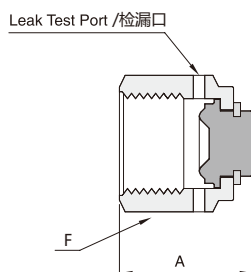


Model	QCR Size/密封面尺寸	E/mm	D/mm	T/mm	N.W/g
	Inch				
FDG024	1/4	6.1	12.7	0.7	
FDG028	1/2	11.2	20.1	0.7	
FDG0212	3/4	16.8	29	0.7	
FDG0216	1	22.6	35.6	0.7	

Cap/堵帽

*Material:SS316L

*材质:不锈钢316L

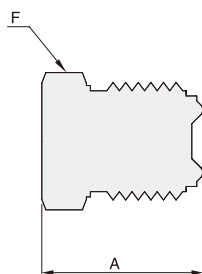


Model	QCR Size/密封面尺寸	A/mm	F/mm	N.W/g
	Inch			
FDC012	1/8	16	11.1	
FDC014	1/4	23.9	19.1	
FDC018	1/2	25.6	27	
FDC0112	3/4	32.8	38.1	
FDC0116	1	39.1	44.5	

Plug/堵头

*Material:SS316L

*材质:不锈钢316L



Model	QCR Size/密封面尺寸	A/mm	F/mm	N.W/g
	Inch			
FDP012	1/8	17.3	9.5	
FDP014	1/4	23.4	15.9	
FDP018	1/2	27.4	23.8	
FDP0112	3/4	36.3	33.3	
FDP0116	1	38.6	41.3	

KF 3-PIECES BALL VALVE KF真空三片式球阀 VFK01 Series/VFK系列



Vacuum Ball Valves have the advantage of being turned completely off to on in one 90 degree rotation of the handle while offering high gas throughput and conductance. Our vacuum ball valves are designed to have a low leak rate, typically on the order of 1×10^{-6} Torr. These ball valves have KF16-KF50 vacuum flange for connection to the vacuum system, are manually or pneumatic operated, and made of stainless steel. Primarily used in backing lines on rotary or scroll pumps.

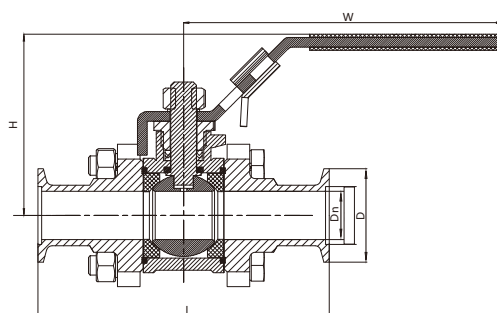
真空球阀的优点是在手柄的90度旋转中做到全开或全闭的同时还可以提供高气体通量和电导。我们的真空球阀设计具有低泄漏率,通常为 1×10^{-6} Torr。球阀规格从KF16到KF50用于连接到真空系统,由不锈钢制成,手动或气动操作。主要用于回转泵或涡旋泵的支承管路。

Design and Feature/设计特点

- * Valve Body :SS304/SS316L
- * Seat Seal :PTFE
- * Vacuum Range : 1×10^{-6} Torr
- * Option with ISO mounting pad for pneumatic actuator
- * 阀体材质:SS304/SS316L
- * 阀座密封:聚四氟乙烯
- * 真空度: 1×10^{-6} Torr
- * 可选配带ISO安装平台以便用来快速安装气动头或者电动头

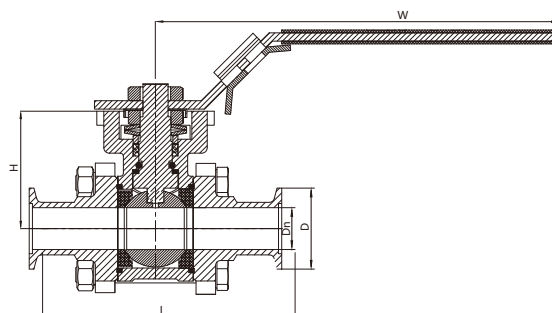
Ordering Information

Model:VFK	01	H1	4	5	1	K25
Series No. 系列						
01-KF End/KF连接方式 02-ISO-K End/ISO连接方式						
Operation 操作方式						
NC- SS actuator, Normally Close/不锈钢,常闭 NO- SS actuator, Normally Open/不锈钢,常开 AA- SS actuator Air to Air/不锈钢,双作用 AC- Alu actuator, Normally Close/铝,常闭 AO- Alu actuator, Normally Open/铝,常开 AD-Alu actuator Air to Air/铝,双作用 H1- Manual No. 1 Pull Handle with lock/带锁手柄 P1-ISO mounting Pad/ISO平台 P2-ISO mounting Pad & Handles/ISO平台+手柄						
Body Material 阀体材质						
4-304 6-316L						
Seat Seal 阀座密封材质						
5-PTFE/四氟						
Standard 1-USA						
Size K16-KF16 ... K50-KF50 F16-CF16 ... F300-CF300 S63-ISO63 ... S160-ISO160						



With No.1 Pull Handle/带锁手柄

Model for 304	Size/规格	D/mm	Dn/mm	L/mm	H/mm	W/mm
VFK01H1451K16	KF16	30	15.8	93	60	95
VFK01H1451K25	KF25	40	22.1	110	65	125
VFK01H1451K40	KF40	55	34.8	139	85	160
VFK01H1451K50	KF50	75	47.5	147	95	160



With ISO Mounting Pad&Handles/ISO平台+带锁手柄

Model for 304	Size/规格	D/mm	Dn/mm	L/mm	H/mm	W/mm	ISO 5211
VFK01P2451K16	KF16	30	15.8	93	30	110	F04
VFK01P2451K25	KF25	40	22.1	110	45	125	F04
VFK01P2451K40	KF40	55	34.8	139	64	160	F05/F07
VFK01P2451K50	KF50	75	47.5	147	74	175	F05/F07



KF CHECK VALVE/KF真空止回阀 VCK01 Series/VCK01系列

VCK01 check valves help prevent air in rush into a system after powering down the pump. Typically installed on the exhaust side of the pump, they can prevent oil back streaming upon pump shut down or failure.

VCK01 check valves with a spring-loaded O-ring sealed disc are for installation in any orientation.

VCK01止回阀主要用于防止泵断电后空气回流入系统。通常安装在泵的排气侧,它们可以在泵关闭或故障时防止油倒流。

VCK01止回阀带有弹簧和阀座O形圈设计,适用于任何方向的安装。



Design and Feature/设计特点

*SS304/SS316L Body with FKM Seals

*不锈钢304或316L阀体材质带氟橡胶O形圈阀座密封

*Min. Relief Pressure of 30mBar

*最小开启压力:30mBar

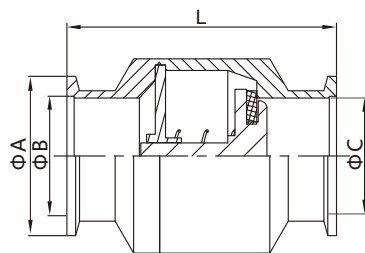
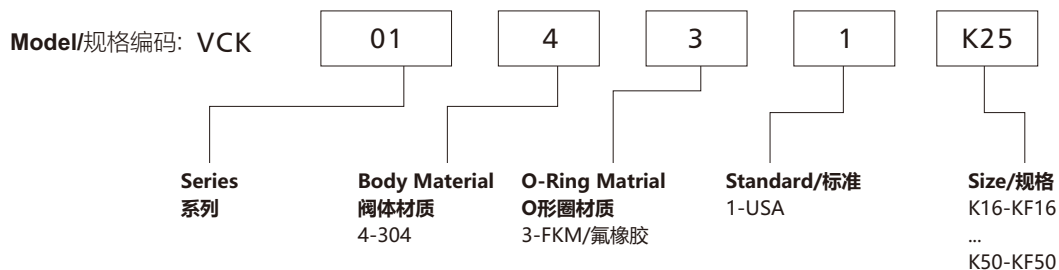
*Leak Rate: 1.0×10^{-5} Pa*L/s

*漏率: 1.0×10^{-5} Pa*L/s

*Temperature Range: -5°C to 100°C (approx.)

*工作温度: -5°C to 100°C (大约)

Ordering Information



Model for 304	Size/规格	A/mm	B/mm	C/mm	L/mm	N.W./kg
VCK01431K16	KF16	30	17.2	16	92	0.32
VCK01431K25	KF25	40	26.2	25	93	0.53
VCK01431K40	KF40	55	41.2	40	93	0.86
VCK01431K50	KF50	75	52.2	50	105	1.37

KF ALUMIUM CHECK VALVE KF铝体止回阀 VCK02 Series/VCK02系列

VCK02 exhaust check valves are typically used to help prevent air from rushing backward through the pump during powered down. They are named one-way valve or non-return valve, Typically installed on the exhaust side of the pump, they can prevent oil back streaming upon pump shut down or failure. VCK02 check valves with a spring-loaded O-ring sealed disc are for installation in any orientation.

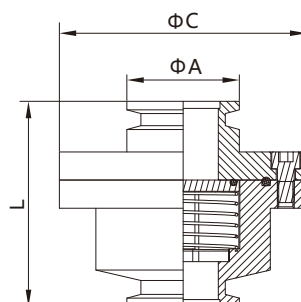
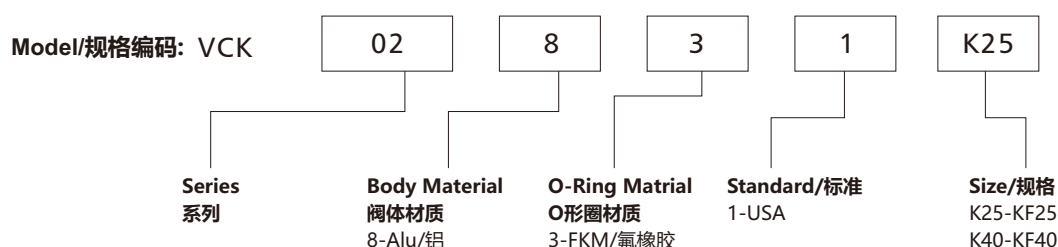
VCK02排气止回阀通常用于帮助防止空气在断电期间逆冲通过泵。它们也被称为单向阀或止回阀,通常安装在泵的排气侧,可以防止泵关闭或故障时油倒流进管道。VCK02止回阀带有弹簧和阀座O形圈设计,适用于任何方向的安装。



Design and Feature/设计特点

- * Alumium Body with FKM Seals
- * Easy Maintenance
- * Min. Relief Pressure of 30mBar
- * Leak Rate: 1.0×10^{-5} Pa*L/s
- * Temperature Range: -5°C to 100°C (approx.)
- * 铝材质阀体带氟橡胶O形圈阀座密封
- * 维修方便
- * 最小开启压力:30mBar
- * 漏率: 1.0×10^{-5} Pa*L/s
- * 工作温度:-5°C to 100°C (大约)

Ordering Information



Model for Alu	Size/规格	A/mm	C/mm	L/mm	N.W.净重/kg
VCK02831K25	KF25	40	88	73	0.43
VCK02831K40	KF40	55	88	73	0.44



BUTTERFLY VALVE/高真空蝶阀 VBK01 Series/VBK01系列

Used as ventilation, shut-off or high-vacuum valves, butterfly valves have a simple structure, and can be installed in the vacuum exhaust line of a semiconductor tools. Butterfly Valves are characterised by their compact design, and high conductance. Made of stainless steel 304 or 316L, these valves are also available manually operated or electro pneumatically.

作为通风、切断或高真空阀门,蝶阀结构简单,可安装在半导体系统的真空排气管路中,用于接通或切断真空管路中的气流。其特点是结构紧凑,电导高。这些阀门由不锈钢304或者316L,也可手动操作或电动气动。

Design and Feature/设计特点

- * Swivel valve plate with FKM seal
- * Compact size and light weight,easy installing
- * Minimal face-to-face dimension,Minimal installing space
- * Flow by adjusting the degree of opening and can be set to an arbitrary degree of opening.
- * 旋转阀轴杆带氟橡胶O形圈密封
- * 体积小,重量轻,安装方便
- * 阀门总长小,更小的安装空间
- * 可通过阀门的不同开度调节流量



H2 Pull Handle
H2拉式手柄



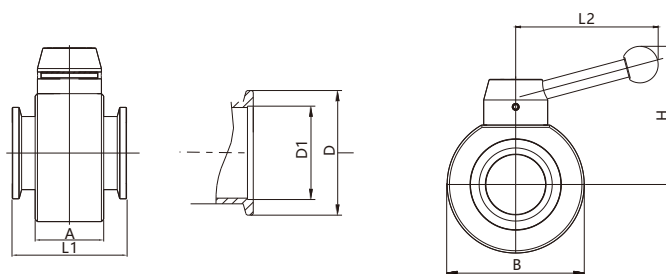
W1 Handwheel
W1手轮

Technical Parameters/技术参数

Valve Body Material/阀门材质:		SS304/SS316L
Seat Seal Material/密封圈材质:		FKM, NBR in option/氟橡胶,可选丁青
Vacuum Range /压力范围:		10^{-5} - 6.7×10^{-5} Pa
Leak Rate/漏率:		1.3×10^{-5} Pa. L/s
Cycles Until Service/寿命:	Cycles/气缸:	800,000 Times/80万次
	Valve/阀门:	100,000 Times/10万次
Angle Opning/开启角度:		0-90 Degree/0-90度
Temperature Range/工作温度:	FKM Seat Seal/氟橡胶:	-30°C to 150°C (大约)
	NBR Seat Seal/丁青:	-25°C to 80°C (大约)
Operated/操作方式:		Manual, Pneumatic Actuator, Electric Actuator/手动,气动,电动
Compressed Air/气源压力:		0.4-0.8Mpa
Opening/Close Speed/开关速度:	Aluminium Actuator/铝气缸:	≤3S/秒
	Electric Actuator on-off type /开关型电动头:	Standard 30 S. 10S, 15S option/标准30秒,可选10秒或15秒
Solenoid Voltage/电磁阀电压:		AC220V,50Hz,6W or on request
Standard Electric Actuator/默认出厂电动头:		On-off type/无源触点型
Avaible with Position Indicator		可选配信号反馈

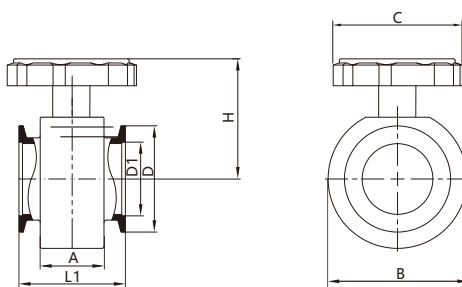
Ordering Information

Model/规格编码: VBK	01	H1	4	3	1	K25	N	N
Connection Flange 接口 01-KF 02-ISO-K 03-CF 05-CR 06-VF 07-VG	Operation/操作方式 H1-H1 Pull Handle 1号拉式手柄 H2-H2 Pull Handle 2号拉式手柄 W1-Handwheel/手轮 AC-Alu actuator, Normally Close 常闭铝气缸 AO-Alu actuator, Normally Open 常开铝气缸 AD-Alu actuator Air to Air 双作用铝气缸 E1- Electric Actuator Standard switch Type 开关型电动头	Body Material 阀体材质 4-304 6-316L	O-Ring Matrial O形圈材质 3-FKM/氟橡胶 4-NBR/丁青	Standard 标准 1-USA	Size/规格 K16-KF16 ... K50-KF50 S63-ISO-K63 ... S160-ISO160	Solenoid Voltage 电磁阀电压 N-No Solenoid 1-220V AC 2-110V AC 3-24V DC 4-12V DC	Position Indicator 信号反馈 N-No Position Indicator 1- 1 Sensor 2- 2 Sensors	



KF Flange Butterfly Valve/KF真空蝶阀

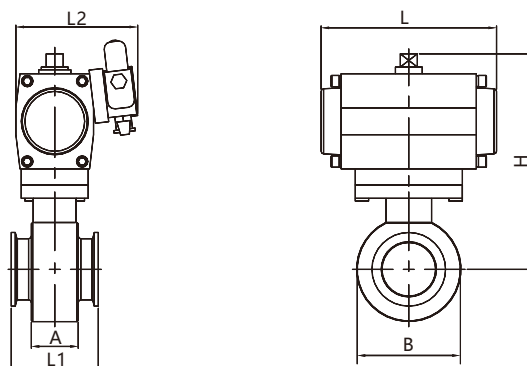
Model for 304	Size/规格	D/mm	D1/mm	A/mm	B/mm	H/mm	L1/mm	L2/mm	N.W./KG
VBK01H2431K25NN	KF25	40	26.2	28	53	60	50	85	0.76
VBK01H2431K40NN	KF40	55	41.2	35	70	70	58	93	1.18
VBK01H2431K50NN	KF50	75	52.2	45	98	100	75	115	2.54



KF Butterfly Valve with Handwheel/KF真空蝶阀带手轮

Model for 304	Size/规格	D/mm	D1/mm	A/mm	B/mm	C/mm	H/mm	L1/mm	N.W./KG
VBK01W1431K25NN	KF25	40	26.2	28	53	48	60	50	
VBK01W1431K40NN	KF40	55	41.2	35	70	48	79	58	
VBK01W1431K50NN	KF50	75	52.2	45	98	62.5	89	75	

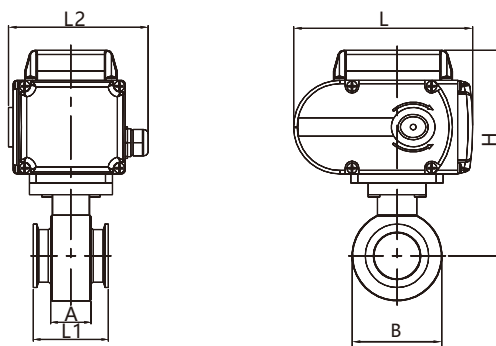




Pneumatic KF Flange Butterfly Valve with Solenoid, Double Acting

气动KF真空蝶阀带电磁阀,双作用

Model for 304	Size/规格	A/mm	B/mm	L1/mm	L2/mm	L/mm	H/mm	N.W./KG
VBK01AD431K251N	KF25	28	53	50	90	152	160	
VBK01AD431K401N	KF40	35	70	58	90	152	170	
VBK01AD431K501N	KF50	45	98	75	90	152	185	



Electric Actuator KF Flange Butterfly Valve

电动KF真空蝶阀

Model for 304	Size/规格	A/mm	B/mm	L1/mm	L2/mm	L/mm	H/mm	N.W./KG
VBK01E1431K25NN	KF25	28	53	50	140	165	195	
VBK01E1431K40NN	KF40	35	70	58	140	165	200	
VBK01E1431K50NN	KF50	45	98	75	140	165	215	

CF HIGH VACUUM BUTTERFLY VALVE

CF高真空蝶阀

VBK03 Series/VBK03系列

Used as ventilation, shut-off or high-vacuum valves, butterfly valves have a simple structure, and can be installed in the vacuum exhaust line of a semiconductor tools. Butterfly Valves are characterised by their compact design, and high conductance. Made of stainless steel 304 or 316L, these valves are also available manually operated or electro pneumatically.

作为通风、切断或高真空阀门,蝶阀结构简单,可安装在半导体系统的真空排气管路中,用于接通或切断真空管路中的气流。其特点是结构紧凑,电导高。这些阀门由不锈钢304或者316L,也可手动操作或电动气动。



W1 Handwheel
W1手轮

Design and Feature/设计特点

- * Swivel valve plate with FKM seal
- * Compact size and light weight,easy installing
- * Minimal face-to-face dimension,Minimal installing space
- * Flow by adjusting the degree of opening and can be set to an arbitrary degree of opening.
- * 旋转阀轴杆带氟橡胶O形圈密封
- * 体积小,重量轻,安装方便
- * 阀门总长小,更小的安装空间
- * 可通过阀门的不同开度调节流量

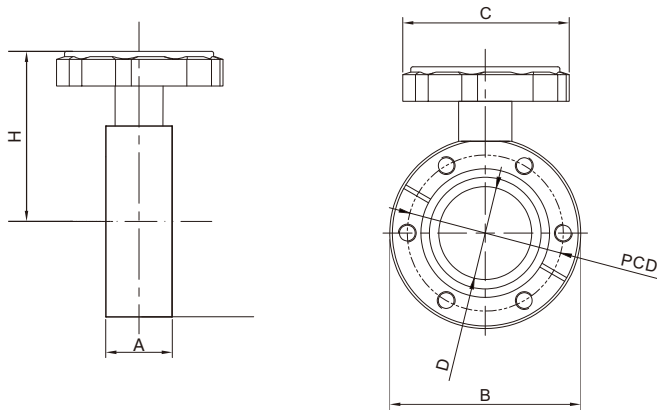
Technical Parameters/技术参数

Valve Body Material/阀门材质:		SS304/SS316L
Seat Seal Material/密封圈材质:		FKM, NBR in option/氟橡胶,可选丁青
Vacuum Range /压力范围:		10^{-5} - 6.7×10^{-5} Pa
Leak Rate/漏率:		1.3×10^{-5} Pa. L/s
Cycles Until Service/寿命:	Cycles/气缸:	800,000 Times/80万次
	Valve/阀门:	100,000 Times/10万次
Angle Opning/开启角度:		0-90 Degree/0-90度
Temperature Range/工作温度:	FKM Seat Seal/氟橡胶:	-30°C to 150°C (大约)
	NBR Seat Seal/丁青:	-25°C to 80°C (大约)
Operated/操作方式:		Manual, Pneumatic Actuator, Electric Actuator/手动,气动,电动
Compressed Air/气源压力:		0.4-0.8Mpa
Opening/Close Speed/开关速度:	Aluminium Actuator/铝气缸:	≤ 3 S/秒
	Electric Actuator on-off type /开关型电动头:	Standard 30 S. 10S, 15S option/标准30秒,可选10秒或15秒
Solenoid Voltage/电磁阀电压:		AC220V,50Hz,6W or on request
Standard Electric Actuator/默认出厂电动头:		On-off type/无源触点型
Avaible with Position Indicator		可选配信号反馈



Ordering Information

Model/规格编码: VBK	01	W1	4	3	H	K25	N	N
Connection Flange/接口 01-KF 02-ISO-K 03-CF 05-CR 06-VF 07-VG	Operation/操作方式 H1-H1 Pull Handle 1号拉式手柄 H2-H2 Pull Handle 2号拉式手柄 W1-Handwheel W1手轮 AC-Alu actuator, Normally Close 常闭铝气缸 AO-Alu actuator, Normally Open 常开铝气缸 AD-Alu actuator Air to Air 双作用铝气缸 E1- Electric Actuator Standard switch Type 开关型电动头	Body Material 阀体材质 4-304 6-316L	O-Ring Matrial O形圈材质 3-FKM/氟橡胶 4-NBR/丁青	Hole Type 孔类型 H-Through Hole 直孔 M-Metric Thread 公制螺栓孔 T-UNC Thread UNC螺栓孔	Size/规格 F16-CF16 ... F300-CF300	Solenoid Voltage 电磁阀电压 N-No Solenoid 1-220V AC 2-110V AC 3-24V DC 4-12V DC	Position Indicator 信号反馈 N-No Position Indicator 1- 1 Sensor 2- 2 Sensors	



CF Butterfly Valve/CF高真空蝶阀

Model for 304	Size/规格	A/mm	B/mm	C/mm	D/mm	H/mm	PCD/mm	Bolt Hole/直孔		N.W/KG
								Dia/尺寸	No./数量	
VBK03W143HF35NN	CF35	25	70	48	32	61.5	58.7	6.7	6	0.62



HIGH VACUUM BUTTERFLY VALVE 高真空蝶阀

VBG01/VBG02/VBG04 Series

VBG01 Series high vacuum butterfly valves are widely used on crystal growth furnaces, which are used for monocrystalline silicon wafer production. These valves can be zero leakage in very low pipe pressure, which is lower to 1.3×10^{-5} Pa. Forged stainless steel body and special sealing structure design, to ensure valve's long life cycles.

VBG01系列高真空蝶阀广泛应用于单晶硅片生产的晶体生长炉上。这些阀门可以在很低的管道压力下实现零泄漏,低至 1.3×10^{-5} Pa。锻造不锈钢阀体和特殊密封结构设计,确保阀门使用寿命长。



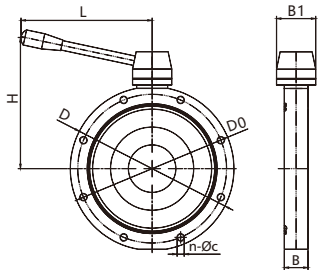
H2 Handle
H2手柄

Technical Parameters/技术参数

Valve Body Material/阀门材质:		SS304/SS316L
Seat Seal Material/密封圈材质:		FKM, NBR in option/氟橡胶,可选丁青
Vacuum Range /压力范围:		10^{-5} - 6.7×10^{-5} Pa
Leak Rate/漏率:		1.3×10^{-5} Pa. L/s
Cycles Until Service/寿命:		80,000 Times/8万次
Angle Opning/开启角度:		0-90 Degree/0-90度
Temperature Range/工作温度:	FKM Seat Seal/氟橡胶:	-30°C to 150°C (大约)
	NBR Seat Seal/丁青:	-25°C to 80°C (大约)
Operated/操作方式:		Manual, Pneumatic Actuator, Electric Actuator/手动,气动,电动
Compressed Air/气源压力:		0.4-0.8Mpa
Operating Time/开关速度:	Aluminium Actuator/铝气缸:	≤3S/秒
	Electric Actuator on-off type/开关型电动头:	Standard 30 S. 10S, 15S option/标准30秒,可选10秒或15秒
Solenoid Voltage/电磁阀电压:		Standard/标配:AC220V,50Hz,6W Optional/选配:AC110V, DC24V, DC12V
Pneumatic Actuator/铝制气缸:		Standard/标配:Double Acting/双作用 Optional/选配: 1. Normally Close/常闭 2. Normally Open/常开
Electric Actuator/电动头:		Standard/标配:On-off type/无源触点型 Optional/选配:Regulating control type/智能调节型
Avaible with Position Indicator		可选配信号反馈

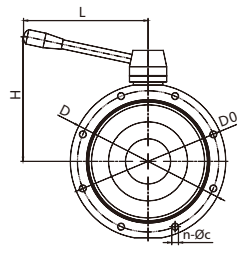
Ordering Information

Model/规格编码: VBG	01	H2	4	3	1	K25	N	N
Flange Type/法兰标准	Operation/操作方式	Body Material	O-Ring Material	Standard/标准	Size/规格	Solenoid Voltage	Position Indicator	
01-JB919 type	H1-H1 Pull Handle	阀体材质	O形圈材质	1-USA	032-DN32	电磁阀电压	信号反馈	
02-GB6070 Type	1号拉式手柄	4-304	3-FKM/氟橡胶	2-DIN	...	N-No Solenoid	N-No Position Indicator	
04-ISO-F type	H2-H2 Pull Handle	6-316L	4-NBR/丁青		150-DN150	1-220V AC	1- 1 Sensor	
	2号拉式手柄				SF63-ISO-F63	2-110V AC	2- 2 Sensors	
	L1-Turning Lever				SF160-ISO-F160	3-24V DC		
	1号手轮					4-12V DC		
	AC-Alu actuator, Normally Close							
	常闭铝气缸							
	AO-Alu actuator, Normally Open							
	常开铝气缸							
	AD-Alu actuator Air to Air							
	双作用铝气缸							
	E1- Electric Actuator Standard switch Type							
	开关型电动头							

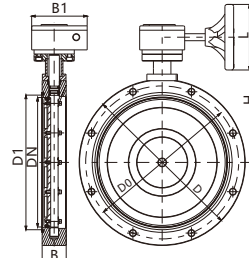


Manual ISO-F Type Butterfly Valve 手动ISO-F标准蝶阀

Model for 304	Size/规格	D/mm	D0/mm	B/mm	H/mm	B1/mm	L/mm	N.W/KG
VBG04H2431SF63NN	ISO-F63	130	110	26	128.5	45	135	
VBG04H2431SF100NN	ISO-F100	165	145	30	152.5	45	135	
VBG04H2431SF160NN	ISO-F160	225	200	35	180.5	45	165	
VBG04H2431SF200NN	ISO-F200	285	260	40	213	45	185	



DN=32~200

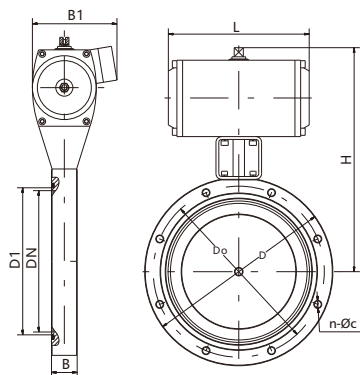


DN=250~500

Manual JB919 Type Butterfly Valve/手动JB919标准蝶阀

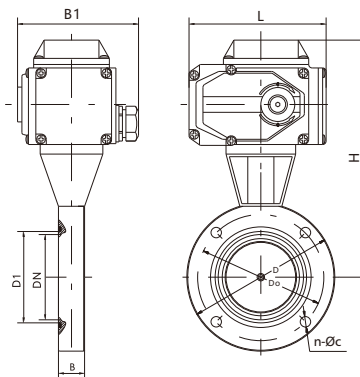
Model for 304	Size/规格	D/mm	D0/mm	D1/mm	B/mm	H/mm	B1/mm	L/mm	n-Øc	N.W/KG
VBG01H2432032NN	DN32	78	64	36	22	102	45	115	4-Ø7	
VBG01H2432040NN	ND40	85	70	44	22	106	45	115	4-Ø7	
VBG01H2432050NN	DN50	110	90	55	22	118	45	115	4-Ø9	
VBG01H2432065NN	DN65	125	105	70	26	126	45	135	4-Ø9	
VBG01H2432080NN	DN80	145	125	85	30	135	45	135	4-Ø9	
VBG01H2432100NN	DN100	170	145	105	30	150	45	135	8-Ø12	
VBG01H2432125NN	DN125	195	170	131	35	165	45	165	8-Ø12	
VBG01H2432150NN	DN150	220	195	156	35	178	45	165	8-Ø12	
VBG01H2432200NN	DN200	275	250	208	40	208	45	165	8-Ø12	
VBG01L1432250NN	DN250	330	300	258	45	262	127	Ø160	8-Ø14	
VBG01L1432300NN	DN300	380	350	308	55	287	127	Ø160	8-Ø14	
VBG01L1432400NN	DN400	500	465	408	60	361	175	Ø200	8-Ø18	
VBG01L1432500NN	DN500	600	565	510	80	447	175	Ø200	12-Ø18	

Pneumatic JB919 Type Butterfly Valve/气动JB919标准蝶阀



Model for 304 /Double Acting 型号(304,双作用气缸)	Size/规格	D/mm	D0/mm	D1/mm	B/mm	H/mm	B1/mm	L/mm	n-Øc	N.W./KG
VBG01AD432040NN	ND40	85	70	44	22	180	90	152	4-Ø7	
VBG01AD432050NN	DN50	110	90	55	22	195	90	152	4-Ø7	
VBG01AD432065NN	DN65	125	105	70	26	200	90	152	4-Ø9	
VBG01AD432080NN	DN80	145	125	85	30	208	90	152	4-Ø9	
VBG01AD432100NN	DN100	170	145	105	30	225	90	152	8-Ø12	
VBG01AD432125NN	DN125	195	170	131	35	256	115	185	8-Ø12	
VBG01AD432150NN	DN150	220	195	156	35	272	115	185	8-Ø12	
VBG01AD432200NN	DN200	275	250	208	40	325	125	230	8-Ø12	
VBG01AD432250NN	DN250	330	300	258	45	355	125	230	8-Ø14	
VBG01AD432300NN	DN300	380	350	308	55	380	125	230	8-Ø14	
VBG01AD432400NN	DN400	500	465	408	60	490	180	308	8-Ø18	
VBG01AD432500NN	DN500	600	565	510	80	585	210	378	12-Ø18	
VBG01AD432600NN	DN600	710	670	610	100	760	270	524	12-Ø21	
VBG01AD432800NN	DN800	920	880	815	130	962	320	648	20-Ø21	
VBG01AD4321000NN	DN1000	1120	1090	1015	140	980	385	1480	32-Ø14	
VBG01AD4321200NN	DN1200	1440	1404	1280	150	1360	385	1480	36-Ø19	

Electri Actuator JB919 Type Butterfly Valve/电动JB919标准蝶阀



Model for 304	Size/规格	D/mm	D0/mm	D1/mm	B/mm	H/mm	B1/mm	L/mm	n-Øc	N.W./KG
VBG01E1432040NN	ND40	85	70	44	22	205	125	155	4-Ø7	
VBG01E1432050NN	DN50	110	90	55	22	218	125	155	4-Ø7	
VBG01E1432065NN	DN65	125	105	70	26	224	125	155	4-Ø9	
VBG01E1432080NN	DN80	145	125	85	30	235	125	155	4-Ø9	
VBG01E1432100NN	DN100	170	145	105	30	247	125	155	8-Ø12	
VBG01E1432125NN	DN125	195	170	131	35	260	125	155	8-Ø12	
VBG01E1432150NN	DN150	220	195	156	35	272	125	155	8-Ø12	
VBG01E1432200NN	DN200	275	250	208	40	320	157	208	8-Ø12	
VBG01E1432250NN	DN250	330	300	258	45	350	157	208	8-Ø14	
VBG01E1432300NN	DN300	380	350	308	55	375	157	208	8-Ø14	
VBG01E1432400NN	DN400	500	465	408	60	451	182	256	8-Ø18	
VBG01E1432500NN	DN500	600	565	510	80	535	182	256	12-Ø18	
VBG01E1432600NN	DN600	710	670	610	100	760	220	280	12-Ø21	
VBG01E1432800NN	DN800	920	880	815	130	960	220	280	20-Ø21	
VBG01E1432900NN	DN900	1040	990	915	130	970	250	350	24-Ø23	
VBG01E14321000NN	DN1000	1120	1090	1015	140	980	250	350	32-Ø14	

■ ANGLE VALVES /真空挡板阀

VZL01/VZY01 Series/VZL01/VZY01系列

Angle valves are a device that manually or pneumatic rotates the thread to drive the valve shaft up and down, causing the valve seat to open or close, thereby connecting or cutting off the airflow in the vacuum system. Valve body designed in 90° right angle(L type) and 45° right angle(Y type). Connecting Flanges are available in KF, ISO, CF types and Tube ends as well.

They are rated for high-vacuum use and pressure rate from 1×10^{-6} Pa to 1.2×10^{-5} Pa, leak rate of 1.3×10^{-7} Pa L/s.

Manually operated angle valves are an excellent solution when automation is not required, they are frequently used in roughing and high-vacuum forelines and make excellent chamber venting valves.

QiMing Angle valves are used in applications ranging from semiconductor manufacturing, plasma physics research, to nuclear accelerators. QiMing offers all series angle valves suited for vacuum applications such as high vacuum process processes, high vacuum applications in pumping systems, semiconductor technology and research systems.



挡板阀是通过通过手动或气动旋转螺纹带动阀板上下运动,使使阀板开启或关闭,从而在真空系统中接通或切断气流的目的。

阀体设计为90°直角(L型)和45°直角(Y型), 连接方式有KF, ISO, CF法兰和焊接可供选择。它们适用于高真空使用,压力范围从 1×10^{-6} Pa to 1.2×10^{-5} Pa, 阀门的泄漏率为 1.3×10^{-7} Pa L/s。

当不需要自动化时,手动操作角阀是一种很好的解决方案,它们经常用于粗加工和高真空前线,并且是很好的腔室排气阀。启明角阀广泛应用于半导体制造、等离子体物理研究、核加速器等领域。启明提供适合真空应用的所有系列角阀,如高真空工艺过程,泵系统中的高真空应用,半导体技术和研究系统。

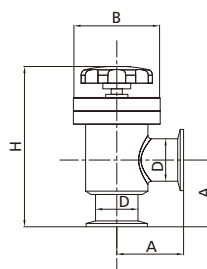
■ Technical Parameters/技术参数

Valve Body Material/阀门材质:		SS304/SS316L
Seat Seal Material/密封圈材质:		FKM, NBR in option/氟橡胶,可选丁青
Application Scope /压力范围:	With Bellow/波纹管轴密封:	1×10^{-6} Pa - 1.2×10^{-5} Pa
	Without Bellow/无波纹管轴密封:	1×10^{-6} Pa - 1.2×10^{-5} Pa
Leak Rate/漏率:	With Bellow/波纹管轴密封:	1.3×10^{-7} Pa L/s
	Without Bellow/无波纹管轴密封:	1.3×10^{-6} Pa L/s
Cycles Until Service/寿命:	Cycles/气缸:	800,000 Times/8万次
	With Bellow/波纹管轴密封:	1500,000- 2000,000Times/15-20万次
	Without Bellow/无波纹管轴密封:	1500,000- 2000,000Times/15-20万次
Bake-out Temperature/温度:		Open/开启时:200°C, Close/关闭时:150°C
Installation Position/安装角度:		Any Direction/任意角度
Compressed Air/气源压力:		0.4-0.8Mpa
Opening/Close Speed/开关速度:		≤1S/1秒
Temperature Range/工作温度:	FKM Seat Seal/氟橡胶:	-30°C to 150°C (大约)
	NBR Seat Seal/丁青:	-25°C to 80°C (大约)
Solenoid Voltage/电磁阀电压:		AC220V,50Hz,6W or on request
Avaliable with Position Indicator		可选配信号反馈



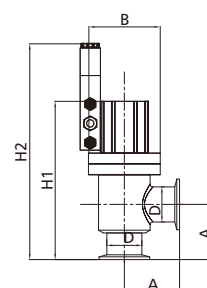
Ordering Information

Model/规格编码: VZ										
	L	01	W1	4	3	1	1	Size	N	N
Valve Body/阀体 L-L Type/L型 Y-Y Type/Y型 B-Straight Type 直通型	Flange/接口 01-KF 02-ISO-K 03-CF 04-ISO-F 05- CR 06-VF 07-VG	Operated/操作方式 W1-Handwheel/手轮 W2-Handwheel with spanner 小手轮带柄 LO-Pneumatic(Spring to Close)/气动常开 LC-Pneumatic(Spring to Open)/气动常闭 LD-Pneumatic(Double Acting)/气动双作用 DC-Electromagnetic/电磁	Body Material 阀体材质 4-304 6-316L	Seat Seal Material 阀座密封圈材质 3-FKM/氟橡胶 4-NBR/丁青	Bellow 阀芯 N-No Bellows 轴封 B-SS Corrugated Bellows 成型波纹管 W-Weld Bellows 焊接波纹管	Standard 1-3A	K16-KF16 ... K50-KF50 F16-CF16 ... F300-CF300 S63-ISO63 ... S160-ISO160	Solenoid Voltage 电磁阀电压 N-No Solenoid 1-220V AC 2-110V AC 3-24V DC 4-12V DC	Position Indicator N-No Position Indicator 1- 1 Sensor 2- 2 Sensors	



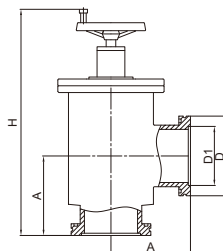
Manual L Type KF Angle Valves with Bellow/手动L型KF挡板阀

Model for 304	Size/规格	A/mm	B/mm	D/mm	H/mm	N.W./kg
VZL01W143B1K16	KF16	40	63	19.05	109	0.79
VZL01W143B1K25	KF25	50	63	25.4	122	0.8
VZL01W143B1K40	KF40	65	78	38.1	140	1.47
VZL01W143B1K50	KF50	70	88	50.8	180	1.9



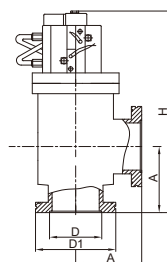
Pneumatic L Type KF Angle Valves with Bellow,NC/气动L型KF挡板阀,常闭

Model for 304	Size/规格	A/mm	B/mm	D/mm	H1/mm	H2/mm	N.W./kg
VZL01LC43B1K16	KF16	40	63	19.05	137	193	0.95
VZL01LC43B1K25	KF25	50	63	25.4	147	203	1.02
VZL01LC43B1K40	KF40	65	78	38.1	181	245	1.85
VZL01LC43B1K50	KF50	70	88	50.8	215	278	2.47



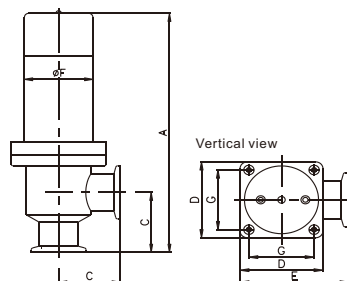
Manual L Type ISO Angle Valves with Bellow/手动L型ISO挡板阀

Model for 304	Size/规格	A/mm	D/mm	D1/mm	H/mm	N.W./kg
VZL02W243B1S63	ISO63	88	95	70	355	
VZL02W243B1S80	ISO80	98	110	83	420	
VZL02W243B1S100	ISO100	108	130	102	435	
VZL02W243B1S160	ISO160	138	180	153	550	
VZL02W243B1S200	ISO200	200	240	213	665	
VZL02W243B1S250	ISO250	208	290	261	740	
VZL02W243B1S300	ISO300	250	370	318	815	



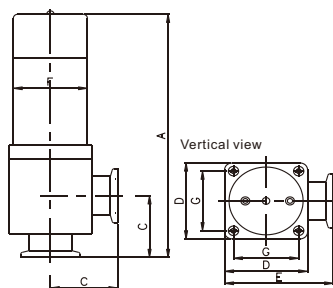
Pneumatic L Type ISO Angle Valves with Bellow,NC/气动L型ISO挡板阀,常闭

Model for 304	Size/规格	A/mm	D/mm	D1/mm	H/mm	N.W./kg
VZL02LC43B1S63	ISO63	88	95	70	275	
VZL02LC43B1S80	ISO80	98	110	83	325	
VZL02LC43B1S100	ISO100	108	130	102	355	
VZL02LC43B1S160	ISO160	138	180	153	485	
VZL02LC43B1S200	ISO200	200	240	213	620	
VZL02LC43B1S250	ISO250	208	290	261	665	
VZL02LC43B1S300	ISO300	250	370	318	830	



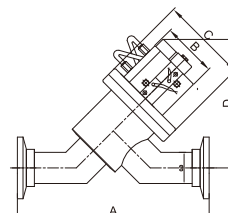
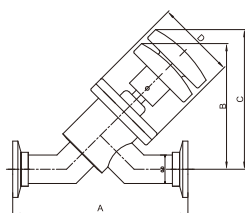
Electromagnetic Angle Valve(SS304 Body)/电磁挡板阀(SS304阀体)

Model for 304	Size/规格	A/mm	C/mm	D/mm	E/mm	F/mm	G/mm	N.W./kg
VZL01DC43W1K16	KF16	167.5	35	48	62.5	44	39	
VZL01DC43W1K25	KF25	187	45	56	73.5	50	44	1.5
VZL01DC43W1K40	KF40	221	55	78	94.5	73	63	
VZL01DC43W1K50	KF50	245	65	84	107.5	78	69	



Electromagnetic Angle Valve(Alu Body)/电磁挡板阀(铝阀体)

Model for Alu	Size/规格	A/mm	C/mm	D/mm	E/mm	F/mm	G/mm	N.W./kg
VZL01DC83W1K16	KF16	167.5	35	48	62.5	44	39	
VZL01DC83W1K25	KF25	187	45	56	73.5	50	44	
VZL01DC83W1K40	KF40	221	55	78	94.5	73	63	
VZL01DC83W1K50	KF50	245	65	84	107.5	78	69	

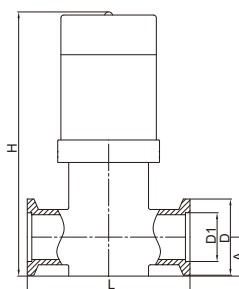


Manual Y Type Angle Valves with Bellow 手动Y型挡板阀

Model for 304	Size/规格	OD/mm	A/mm	B/mm	C/mm	D/mm	N.W./kg
VZY01W243B1K16	KF16	19	102	100	117	60	
VZY01W243B1K25	KF25	25.4	107	97	114	60	
VZY01W243B1K40	KF40	38.1	130	123	140	78	
VZY01W243B1K50	KF50	50.8	178	152	180	88	

Pneumatic Y Type Angle Valves with Bellow 气动Y型挡板阀

Model for 304	Size/规格	OD/mm	A/mm	B/mm	C/mm	D/mm	N.W./kg
VZY01LC43B1K16	KF16	19	102	42	60	155	
VZY01LC43B1K25	KF25	25.4	107	42	60	160	
VZY01LC43B1K40	KF40	38.1	130	60	78	180	
VZY01LC43B1K50	KF50	50.8	178	72	88	185	



Electromagnetic Straight Valve/电磁直通挡板阀

Model for 304	Size/规格	A/mm	D/mm	D1/mm	H/mm	L/mm	N.W./kg
VZB01DC43N1K16	KF16	18	30	17.2	177	80	
VZB01DC43N1K25	KF25	20.5	40	26.2	183	100	1.7
VZB01DC43N1K40	KF40	29	55	41.2	225	130	
VZB01DC43N1K50	KF50	35	75	52.2	265	140	

MINI UHV GATE VALVES

迷你超高真空插板阀

VXM Series/VXM系列

VXM Series mini UHV gate valves can be divided into manual, pneumatic and electric drive modes, with Connection KF flange and CF flange from size KF25 to KF50 and CF25 to CF50.

Featured with smooth operation, small size, reliable application, good sealing performance and long service life. VXM mini series UHV gate valves are used when a very high conductance value or an optically free passage is required. The medium of the valve is air and non-corrosive gas.

VXM系列迷你超向真空插板阀可分为手动、气动和电动三种驱动方式,连接有KF和CF法兰两种,尺寸从KF25到KF50和CF25到CF50。

VXM插板阀具有运行平稳、体积小、应用可靠、密封性能好、使用寿命长等特点。特别适合应用在需要非常高的电导值或光学自由通道领域。

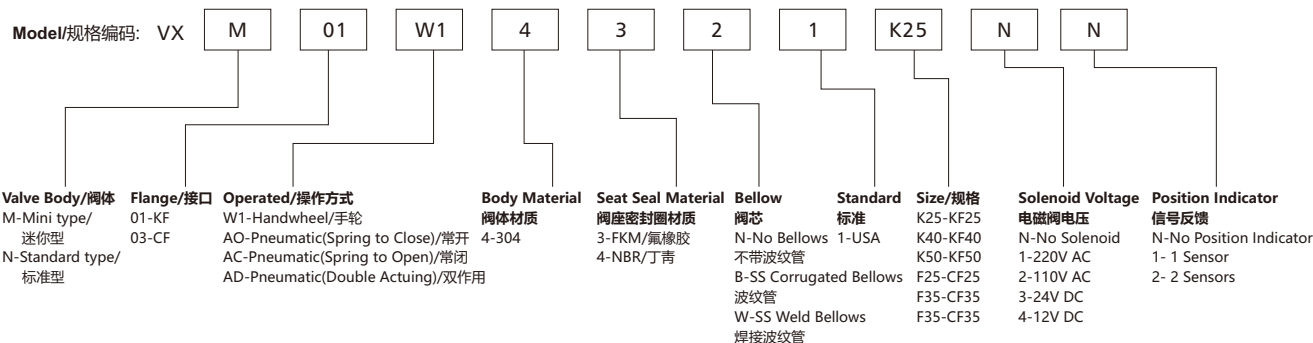
该阀的介质为空气和无腐蚀性气体。



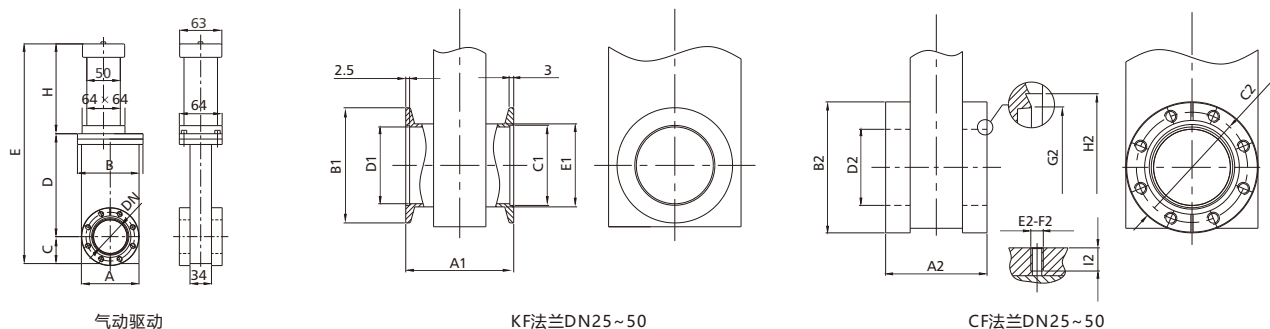
Technical Parameters/技术参数

Valve Body Material/阀门材质:		SS304
Seat Seal Material/密封圈材质:		FKM, NBR in option/氟橡胶,可选丁青
Application Scope /压力范围:		3X10 ⁻⁷ to 1.2x10 ⁵ Pa
Leak Rate/漏率:		1.3x10 ⁻⁷ Pa L/s
Cycles Until Service/寿命:		100,000 Times/10万次
Bake-out Temerature/温度:		Open/开启时:150°C, Close/关闭时:120°C
Installation Position/安装角度:		Any Direction/任意角度
Different Pressure on the Gate:		3000Pa
Compressed Air/气源压力:		0.4-0.8Mpa
Opening/Close Speed/开关速度:		≤3S/3秒
Temperature Range/工作温度:	FKM Seat Seal/氟橡胶:	-30°C to 150°C (大约)
	NBR Seat Seal/丁青:	-25°C to 80°C (大约)
Solenoid Voltage/电磁阀电压:		AC220V,50Hz,6W or on request
Avaible with Position Indicator		可选配信号反馈

Ordering Information



Manual Mini UHV Gate Valves手动迷你超高真空插板阀



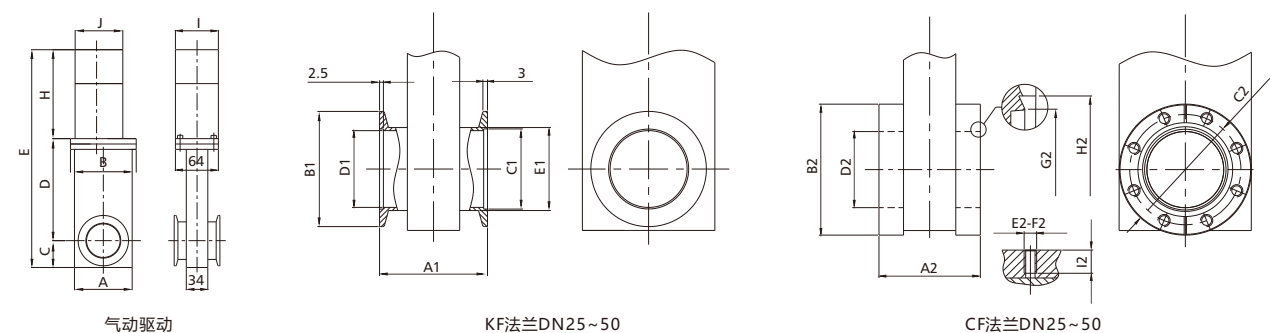
KF Flange/KF法兰连接

Model for 304	DN/规格	A/mm	B/mm	C/mm	D/mm	E/mm	H/mm	A1/mm	B1/mm	C1/mm	D1/mm	E1/mm
VXM01W143W1K25NN	KF25	62	78	33	120	278	125	66	40	26.2	25	28
VXM01W143W1K40NN	KF40	70	85	35	152.5	312.5	125	70	55	41.2	40	45
VXM01W143W1K50NN	KF50	88	98	41	152	226.5	133.5	70	75	52.2	50	56

CF Flange/CF法兰连接

Model for 304	DN/规格	A/mm	B/mm	C/mm	D/mm	E/mm	H/mm	A2/mm	B2/mm	C2/mm	D2/mm	E2/mm	F2/mm	G2/mm	H2/mm	H2/mm
VXM03W143W1F25NN	CF25	62	78	33	120	278	125	34	54	43	25	6	M6	29.5	35	10.5
VXM03W143W1F35NN	CF35	70	85	35	152.5	312.5	125	60	70	58.7	35	6	M6	42	48.3	10
VXM03W143W1F50NN	CF50	88	98	41	152	226.5	133.5	66	86	72.4	50	8	M8	55.6	61.6	12

Pneumatic Mini UHV Gate Valves, Double Acting双作用气动迷你超高真空插板阀



KF Flange/KF法兰连接

Model for 304	DN/规格	A/mm	B/mm	C/mm	D/mm	E/mm	H/mm	I/mm	J/mm	A1/mm	B1/mm	C1/mm	D1/mm	E1/mm
VXM01AD43W1K401N	KF40	70	85	35	152.5	325.5	138	50	63	70	55	41.2	40	45
VXM01AD43W1K501N	KF50	88	98	41	152	335.5	142.5	64	71	70	75	52.2	50	56

CF Flange/CF法兰连接

Model for 304	DN/规格	A/mm	B/mm	C/mm	D/mm	E/mm	H/mm	I/mm	J/mm	A2/mm	B2/mm	C2/mm	D2/mm	E2/mm	F2/mm	G2/mm	H2/mm	H2/mm
VXM03AD43W1F351N	CF35	70	85	35	152.5	325.5	138	50	63	60	70	58.7	35	6	M6	42	48.3	10
VXM03AD43W1F501N	CF50	88	98	41	152	335.5	142.5	64	71	66	86	72.4	50	8	M8	55.6	61.6	12

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