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Jiangsu BCST Group Co.,Ltd

Add: No288 , Tongtai Road ,Jinhu Industrial Park,Huai'An,Jiangsu

Tel:0086-517-86989565 Mobile:008615052699328

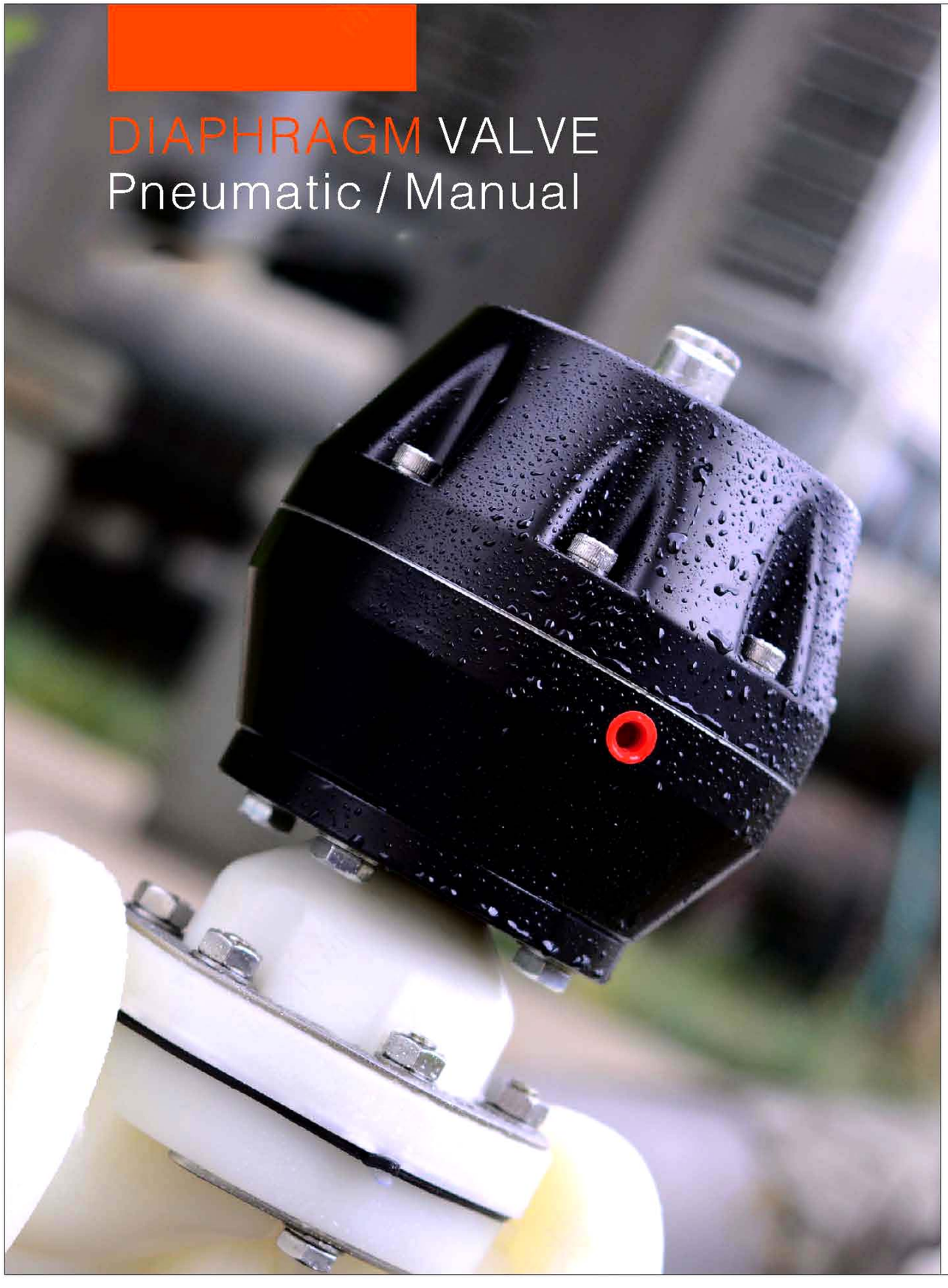
Email:info@bcstgroup.com Web:www.bcstvalve.com

BCST

Diaphragm valve series

隔膜阀系列

Jiangsu BCST Group Co.,Ltd



DIAPHRAGM VALVE
Pneumatic / Manual

BCST

气动调节型隔膜阀
Pneumatic regulating diaphragm valve

气动开关型隔膜阀
Pneumatic switch diaphragm valve

气动英标衬氟隔膜阀
Pneumatic diaphragm fluorine diaphragm valve

气动英标衬胶隔膜阀
Pneumatic diaphragm valve

气动大口径隔膜阀
Pneumatic Large Diameter Diaphragm Valve

手动国标衬氟隔膜阀
Manual national standard fluorine diaphragm valve

手动国标衬氟隔膜阀
Manual national standard fluorine diaphragm valve

手动英标衬氟隔膜阀
Manual British standard fluorine diaphragm valve

手动英标衬胶隔膜阀
Manual angled rubber diaphragm valve

手动直通隔膜阀
Manual diaphragm valve

手动PPH隔膜阀
Manual PPH diaphragm valve

手动CPVC隔膜阀
Manual CPVC diaphragm valve

手动UPVC隔膜阀
Manual UPVC diaphragm valve

手动PVDF隔膜阀
Manual PVDF diaphragm valve

手动PPH承插隔膜阀
Manual PPH socket diaphragm valve

手动UPVC双由令隔膜阀
Manual UPVC double by diaphragm valve

气动UPVC双由令隔膜阀
Pneumatic UPVC double driven diaphragm valve

气动PPH隔膜阀
Pneumatic PPH diaphragm valve

气动UPVC隔膜阀
Pneumatic UPVC diaphragm valve

气动PVDF隔膜阀
Pneumatic PVDF diaphragm valve

气动PPH承插隔膜阀
Pneumatic PPH socket diaphragm valve

气动PVDF承插隔膜阀
Pneumatic PVDF socket diaphragm valve

气动不锈钢隔膜阀
Pneumatic stainless steel diaphragm valve

气动不锈钢丝扣隔膜阀
Pneumatic stainless steel wire buckle diaphragm valve

气动焊接隔膜阀
Pneumatic welding diaphragm valve

手动快装隔膜阀
Manual fast loading diaphragm valve

手动三通隔膜阀
Manual three -way diaphragm valve

气动快装隔膜阀
Pneumatic fast loading diaphragm valve

气动罐底阀
Bottom valve of pneumatic tank

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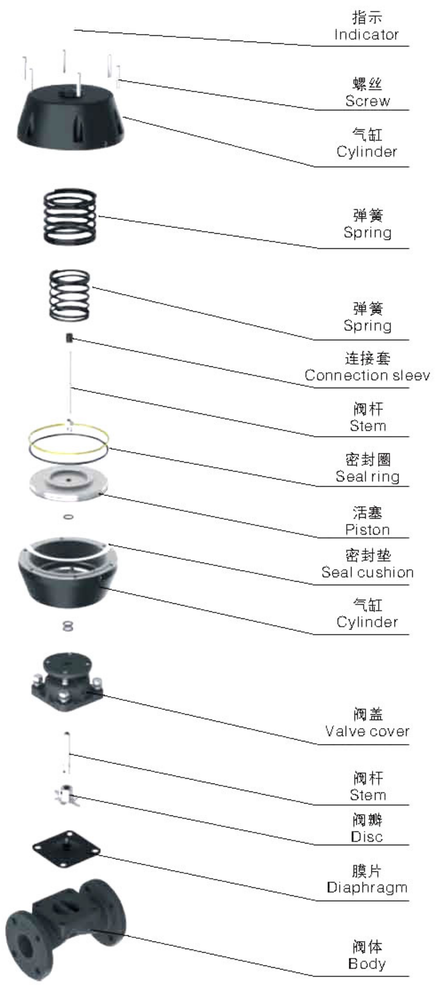

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阀体衬里材料及使用范围

Materials and scope of application of body linings

材 料 Material	代号 Code	适用温度 Suitable temperature	适用介质 Applicablemedium
★聚全氟乙丙烯 Fluorinated ethylene propylene	FEP、F46	≤150℃	各种浓度的盐酸、硫酸、氢氟酸、以及王水、硝酸、各种有机酸、强碱、强氧化剂或浓稀酸交替、酸碱交替、多种有机溶剂和除熔融碱金属、元素氟及芳香烃类外的其它强腐蚀性介质。 Various concentrations of hydrochloric acid, sulfuric acid, hydrofluoric acid, as well as water Royal, nitric acid, various organic acids, strong bases, strong oxidizers or concentrated acid alternately, acid base alternately, a variety of organic solvents and other strong corrosive media except molten alkali metals, elemental fluorine and aromatic hydrocarbons.
聚三氟氯乙烯 Polychlorotri fluoroethylene	PCTFE、F3	≤120℃	
聚偏氟乙烯 Polyvinylidene fluoride	PVDF、f2	≤120℃	
四氟乙烯和乙烯共聚物 Ethyle tetrafluoroe-thylene,Tefzel	TFE/E、F40	≤120℃	
可溶性聚四氟乙烯 Perfluoroalkoxy	PFA	≤180℃	
增强聚丙烯 Reinforced polypropylene	RPP	≤100℃	除浓硝酸、发烟硝酸、氯磺酸及强氧化剂外的大多数有机酸、无机酸、无机溶剂等。 Most organic acids, inorganic acids, inorganic solvents, etc., except concentrated nitric acid, fuming nitric acid, chlorosulfonic acid and strong oxidant.
聚烯烃 Polyolefin	PO	≤100℃	适用于腐蚀性气体、液体、及固液浆体等流通体介质的输送，对盐酸、稀硫酸、氢氟酸、碱和盐溶液都有良好的耐蚀性，防静电、无毒 It is suitable for the conveyance of corrosive gas, liquid, and solid liquid slurry, and has good corrosion resistance to hydrochloric acid, dilute sulfuric acid, hydrofluoric acid, alkali and salt solution, anti static and non-toxic.
铸铁，无衬里 Castiron unlined		≤100℃	非腐蚀性介质 Non corrosive medium
不锈钢，无衬里 Stainless steel,unlined		≤150℃	一般腐蚀性介质 Corrosive medium
丁基胶(B级) Isobutylene-isoprene rubber	IIR	≤120℃	除> 75%硫酸、>20%盐酸、<60%氢氟酸、>85磷酸、苛性碱和多种酯类等。 Except for >75% sulfuric acid,>20% hydrochloric acid, <60% hydrofluoric acid, >85phosphoric acid, corrosive alkali and ester.
★天然胶(Q级) Natural rubber	NR	≤850℃	净化水、无机盐、稀释无机酸等。 Purified water, mineral salt and diluent mineral acid etc.
三元乙丙 Ethylene-propylene -diene meyhylene, Vistalon	EPDM	≤120℃	具有天然胶相似的耐酸、碱性能，用于低压蒸汽、热水、冷水性能极为良好。 Have the acid resistance and alkali resistance like the natural rubber and be suitable for application in the low-pressure steam, hot water and cold water.
氯丁胶 Chloroprene rubber	CR	≤85℃	耐酸、耐碱、耐油和非极性溶剂。耐磨性优于天然胶。 Acid-resistant and alkali-resistant and the non-polar solvent and the abrasion resistance are better than the natural rubber.
丁腈胶 Nitrile. Buna-N	NBR	≤85℃	耐油耐磨，其耐酸性能与天然胶相似。 Oil-resistant and abrasion resistant and the acid resistance is the same as the natural rubber.
海帕隆 Hypalon	CSPE	≤120℃	具有优良的耐臭氧、耐大气老化、耐酸碱、耐氧化剂及多种化学药品，耐燃、耐热性，但不耐石油类和芳烃。 The product has the features of ozone resistants, atmospheric aging resistance, acid and alkali resistance, oxidant and many kinds of chemical medicine resistance, and burning resistance, heat resistance but no resistance to petroleum and arene.
氟橡胶 Fluoroelastomer,Viton	FKM	≤150℃	具有类似氟塑料的耐腐蚀性能，在浓酸、强氧化性能中极稳定，在有机溶剂和碱溶液中稳定。 Have the corrosive resistance like the flouroplastic. Be very stable in the strong acid and strong oxidant and be stable in the organic solvent and alkali solvent.
硅橡胶 Silicone rubber	SI	≤200℃	耐高温，电绝缘性能优良，耐磨性良好，能耐稀酸、稀碱、盐、水腐蚀，不耐汽油、煤油等石油产品腐蚀。 Be heatproof, excellent electricity insulation capability and wear-able; may resist corrosion of dilute acid, dilute alkali, salt and water, can't resist corrosion of petrolic products such as gasoline, coal oil etc.

注：1、★为本厂基型产品
　　2、上述适用温度仅供参考，不同的工况条件决定不同的工作温度。
Note:1.The products with★are the basic products of our factory.
　　2.The temperature of application are shown as guide only.The many aspects of service conditions the different working temperature.

隔膜阀Cv值与流量特性

Cv value and flow characteristic of diaphragm valve

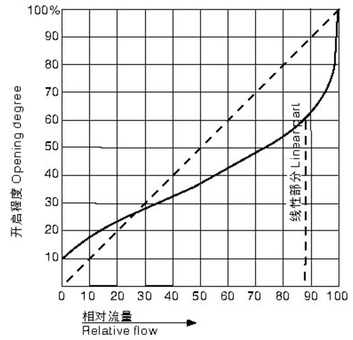
隔膜阀Cv值（Cv-美制加仑/分 Kv-m^3） Cv value of diaphragm valve

DN (mm)	20		25		32		40		50		65		80	
开度 Open	Cv	Kv	Cv	Kv	Cv	Kv	Cv	Kv	Cv	Kv	Cv	Kv	Cv	Kv
100%	6.50	5.59	11.19	9.60	16.70	14.31	31.00	26.57	59.00	50.60	83.00	71.10	148.00	126.90
90%	6.24	5.35	10.75	9.21	16.03	13.74	29.76	25.51	56.00	48.00	79.70	68.30	142.00	121.70
80%	5.98	5.13	10.30	8.83	15.35	13.17	28.51	24.43	54.00	46.29	76.40	65.40	136.00	116.60
70%	5.72	4.90	9.85	8.42	14.69	12.59	27.28	23.38	52.00	44.57	73.00	62.60	130.00	111.40
60%	4.45	4.67	9.40	8.06	14.02	12.02	26.03	22.32	50.00	42.86	69.70	59.80	124.00	106.30
50%	4.54	3.89	7.83	6.71	11.69	10.02	21.69	18.59	41.00	35.14	58.10	49.80	103.00	88.30
40%	3.63	3.11	6.27	5.37	9.35	8.01	17.35	14.87	33.00	28.28	16.50	39.80	82.90	71.00
30%	2.72	2.33	4.70	4.02	7.01	6.01	13.01	11.15	25.00	21.43	34.90	29.90	62.20	44.70
20%	1.81	1.55	3.13	2.68	4.67	4.00	8.67	7.43	16.00	13.71	23.20	19.90	41.40	35.50
10%	0.90	0.7	1.56	1.34	2.33	1.98	4.33	3.71	8.00	6.86	11.60	9.90	20.70	17.80
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DN (mm)	100		125		150		200		250		300		350	
开度 Open	Cv	Kv	Cv	Kv	Cv	Kv	Cv	Kv	Cv	Kv	Cv	Kv	Cv	Kv
100%	270	231	–	–	505	433	–	–	2100	1800	3880	3326	3880	3326
90%	259	222	–	–	484	414	–	–	2015	1727	2724	3191	3724	3191
80%	248	213	–	–	464	398	–	–	1932	1656	3569	3059	2569	3059
70%	237	103	–	–	444	381	–	–	1848	1584	3414	2926	3414	2926
60%	226	194	–	–	424	363	–	–	1763	1511	3259	2793	3259	2793
50%	189	172	–	–	353	303	–	–	1470	1260	2716	2327	2716	2327
40%	151	129	–	–	282	242	–	–	1176	1008	2172	1861	2172	2961
30%	113	97	–	–	212	282	–	–	881	7555	1629	1396	1629	2396
20%	75.60	65	–	–	141	121	–	–	588	504	1086	931	1086	931
10%	37.80	32.40	–	–	71	61	–	–	294	252	543	465	543	465
0	0	0	–	–	0	0	–	–	0	0	0	0	0	0

隔膜阀流量特征曲线

Flow characteristic curve of diaphragm valve



Pneumatic
Regulating Diaphragm Valve

气动调节型隔膜阀

本阀专用于控制腐蚀性或强腐蚀性介质，阀体内腔表面无衬里或覆有可供选择的各种氟塑料，适用于不同工作温度和流体管路。

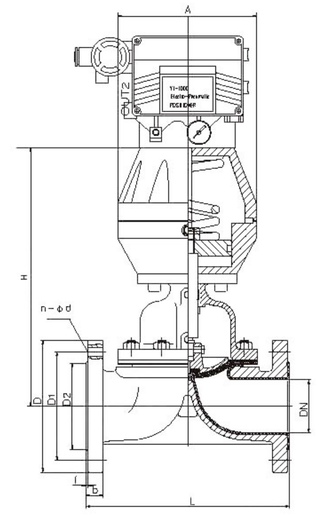
适用温度：≤85℃、≤100℃、≤120℃、≤150℃(按照衬里和隔膜材料)

This valve is used to control corrosive or strong corrosive medium. The inner cavity surface of the valve body is unlined or covered with various kinds of fluoroplastics. It is suitable for different working temperature and fluid pipeline.

Applicable temperature: less than ≤85℃、≤100℃、≤120℃、≤150℃(according to lining and diaphragm material)

主要材料
Main material

NO.	名称Name	材质Material
1	阀体 Body	WCB/304
2	阀盖 Bonnet	WCB
3	隔膜 Diaphragm	EPDM/F46
4	阀瓣 Disc	WCB
5	气缸 Cylinder	铝合金 Aluminum alloy
6	活塞 Piston	铝合金 Aluminum alloy
7	阀杆 Stem	不锈钢304/45# Stainliss steel 304/45#
8	连接方式 Way of connection	法兰 Flange



外形对照表
Shape control table

DN	公称压力 Nominal pressure MPa	L	D	D1	n-Φd	f	H	气源压力 Air pressure MPa	阀门重量 (KG)	气缸外 ΦA
15	1.0	125	95	65	4-14	2	215	0.6	5	110
20		139	105	75	4-14	2	220	0.6	5.2	110
25		145	115	85	4-14	2	225	0.6	5.4	110
32		160	140	100	4-18	2	240	0.6	6.9	140
40		180	150	110	4-18	3	285	0.6	13.5	170
50		210	165	125	4-18	3	307	0.6	16	170
65		250	185	145	4-18	3	327	0.6	22	200
80		300	200	160	8-18	3	390	0.6	31	230
100		350	220	180	8-18	3	470	0.6	50	260
125		400	250	210	8-18	3	637	0.6	65	310

Pneumatic
Switch Diaphragm Valve

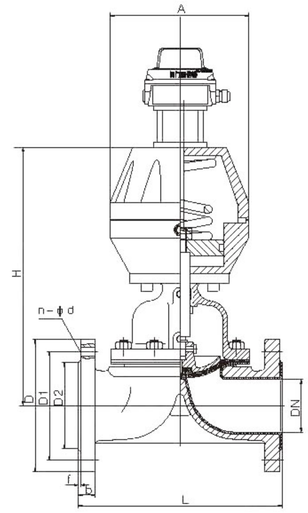
气动开关隔膜阀

该阀不需要单独的阀杆填料密封结构，隔膜在切断介质的同时起到了阀杆的密封作用，其二是柔韧性很强的隔膜关闭可靠，甚至对污液都能做到良好的切断。

The valve does not require a separate stem packing seal structure, the sealing effect of the diaphragm to the stem in the medium cut off at the same time, the second is the diaphragm flexible reliable closing, even the dirty liquid can do good to cut off.

主要材料
Main material

NO.	名称Name	材质Material
1	阀体 Body	WCB/304
2	阀盖 Bonnet	WCB
3	隔膜 Diaphragm	EPDM
4	阀瓣 Disc	WCB
5	气缸 Cylinder	铝合金 Aluminum alloy
6	活塞 Piston	铝合金 Aluminum alloy
7	阀杆 Stem	不锈钢304/45# Stainliss steel 304/45#
8	连接方式 Way of connection	法兰 Flange



外形对照表
Shape control table

DN	公称压力 Nominal pressure MPa	L	D	D1	n-φd	f	H	气源压力 Air pressure MPa	阀门重量 (KG)	气缸外 φA
15	1.0	125	95	65	4-14	2	215	0.6	5	110
20		139	105	75	4-14	2	220	0.6	5.2	110
25		145	115	85	4-14	2	225	0.6	5.4	110
32		160	140	100	4-18	2	240	0.6	6.9	140
40		180	150	110	4-18	3	285	0.6	13.5	170
50		210	165	125	4-18	3	307	0.6	16	170
65		250	185	145	4-18	3	327	0.6	22	200
80		300	200	160	8-18	3	390	0.6	31	230
100		350	220	180	8-18	3	470	0.6	50	260
125		400	250	210	8-18	3	637	0.6	65	310

Pneumatic Diaphragm Fluorine Diaphragm Valve

气动英标衬氟隔膜阀

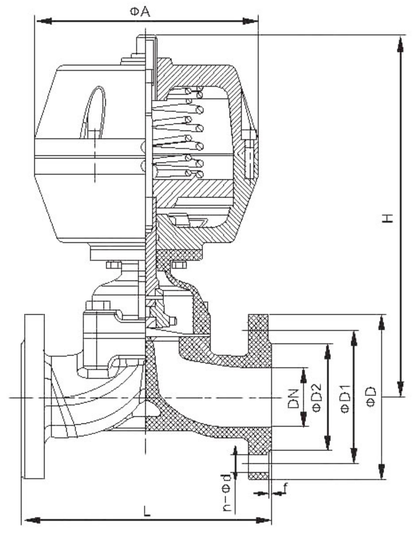
该阀不需要单独的阀杆填料密封结构，隔膜在切断介质的同时起到了阀杆的密封作用，其二是柔韧性很强的隔膜关闭可靠，甚至对污液都能做到良好的切断。

The valve does not require a separate stem packing seal structure, the sealing effect of the diaphragm to the stem in the medium cut off at the same time, the second is the diaphragm flexible reliable closing, even the dirty liquid can do good to cut off.

主要材料

Main material

NO.	名称Name	材质Material
1	阀体 Body	WCB/304
2	阀盖 Bonnet	WCB
3	隔膜 Diaphragm	EPDM/F46
4	阀瓣 Disc	WCB
5	气缸 Cylinder	铝合金 Aluminum alloy
6	活塞 Piston	铝合金 Aluminum alloy
7	阀杆 Stem	不锈钢304/45# Stainliss steel 304/45#
8	连接方式 Way of connection	法兰 Flange



外形对照表

Shape control table

DN	公称压力 Nominal pressure MPa	L	D	D1	n-φd	f	H	气源压力 Air pressure MPa	阀门重量 (KG)	气缸外 φA
15	1.0	108	95	65	4-13.5	2	215	0.6	6	110
20		117	105	75	4-13.5	2	220	0.6	6.5	110
25		127	115	85	4-13.5	2	225	0.6	6.8	110
32		146	140	100	4-17.5	2	240	0.6	8	140
40		159	150	110	4-17.5	2	285	0.6	15	170
50		190	165	125	4-17.5	2	307	0.6	18	170
65		216	185	145	4-17.5	2	327	0.6	25	200
80		254	200	160	8-17.5	2	390	0.6	35	230
100		305	220	180	8-17.5	2	470	0.6	57	260
125		356	250	210	8-17.5	3	637	0.6	75	310

Pneumatic
Diaphragm Valve

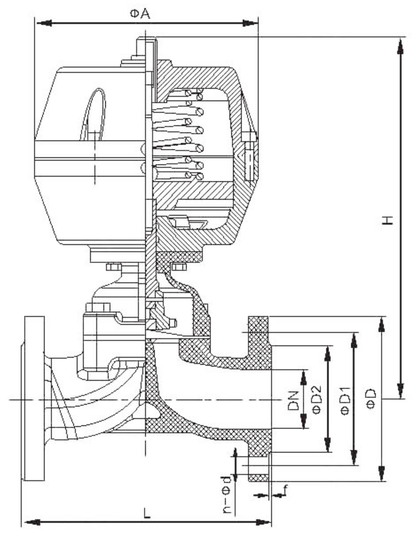
气动英标衬胶隔膜阀

该阀不需要单独的阀杆填料密封结构，隔膜在切断介质的同时起到了阀杆的密封作用，其二是柔韧性很强的隔膜关闭可靠，甚至对污液都能做到良好的切断。

The valve does not require a separate stem packing seal structure, the sealing effect of the diaphragm to the stem in the medium cut off at the same time, the second is the diaphragm flexible reliable closing, even the dirty liquid can do good to cut off.

主要材料
Main material

NO.	名称Name	材质Material
1	阀体 Body	GG25/WCB
2	阀盖 Bonnet	WCB
3	隔膜 Diaphragm	EPDM
4	阀瓣 Disc	WCB
5	气缸 Cylinder	铝合金 Aluminum alloy
6	活塞 Piston	铝合金 Aluminum alloy
7	阀杆 Stem	不锈钢304/45# Stainliss steel 304/45#
8	连接方式 Way of connection	法兰 Flange



外形对照表
Shape control table

DN	公称压力 Nominal pressure MPa	L	D	D1	n-φd	f	H	气源压力 Air pressure MPa	阀门重量 (KG)	气缸外 φA
15	1.0	108	95	65	4-13.5	2	215	0.6	6	110
20		117	105	75	4-13.5	2	220	0.6	6.5	110
25		127	115	85	4-13.5	2	225	0.6	6.8	110
32		146	140	100	4-17.5	2	240	0.6	8	140
40		159	150	110	4-17.5	2	285	0.6	15	170
50		190	165	125	4-17.5	2	307	0.6	18	170
65		216	185	145	4-17.5	2	327	0.6	25	200
80		254	200	160	8-17.5	2	390	0.6	35	230
100		305	220	180	8-17.5	2	470	0.6	57	260
125		356	250	210	8-17.5	3	637	0.6	75	310

Pneumatic Large Diameter Diaphragm Valve

气动大口径隔膜阀

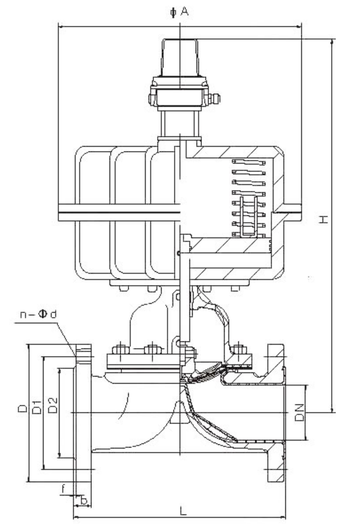
该阀不需要单独的阀杆填料密封结构，隔膜在切断介质的同时起到了阀杆的密封作用，其二是柔韧性很强的隔膜关闭可靠，甚至对污液都能做到良好的切断。

The valve does not require a separate stem packing seal structure, the sealing effect of the diaphragm to the stem in the medium cut off at the same time, the second is the diaphragm flexible reliable closing, even the dirty liquid can do good to cut off.

主要材料

Main material

NO.	名称Name	材质Material
1	阀体 Body	铸铁、碳钢、不锈钢 Cast iron, carbon steel, stainless steel
2	阀盖 Bonnet	铸铁、碳钢、不锈钢 Cast iron, carbon steel, stainless steel
3	衬里 lining	衬胶或衬氟 Lining or lining fluorine
4	隔膜 Diaphragm	F46+EPDM、橡胶Rubber
5	阀瓣 Disc	铸铁、碳钢 Cast iron，carbon steel
6	气缸 Cylinder	铝合金 Aluminum alloy
7	活塞 Piston	铝合金 Aluminum alloy
8	阀杆 Stem	不锈钢304/45# Stainless steel 304/45#
9	连接方式 Way of connection	法兰 Flange



外形对照表

Shape control table

DN	L	D	D1	n-Φd	t	H	ϕA
150	460/406	285	240	8-22	3	830	370
200	570/521	340	295	8-22	4	880	490

Pneumatic PPH Flange Diaphragm Valve

气动PPH法兰式隔膜阀

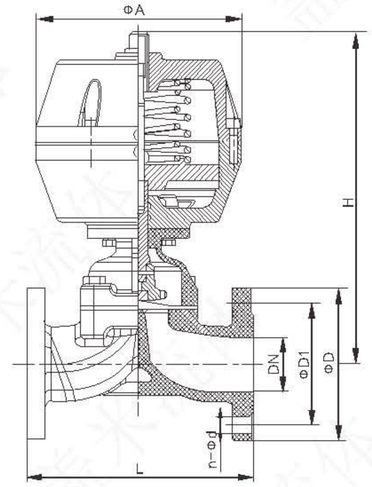
采用耐腐蚀阀体和耐腐蚀的隔膜、无填料函结构、节流元件为弹性隔膜、阀体流道平滑，故气动隔膜阀具有阴力小，流量大、无外漏和方便可靠、防火防爆的优点，广泛适用于工业自动化系统中的强酸、强碱、强腐蚀、高粘度、含颗粒、带纤维以及有毒和不充许污染的介质的流量调节。

The pneumatic diaphragm valve has the advantages of small negative force, large flow, no leakage, convenient and reliable, fireproof and explosion-proof, and it is widely used in the strong acid, strong alkali, strong corrosion and high viscosity in industrial automation system, with the use of corrosion resistant valve and corrosion resistant diaphragm, non packing structure, and throttle element for elastic diaphragm and smooth flow channel. The flow regulation of media containing spikelets, fibers and toxic and non polluting media.

主要材料

Main material

NO.	名称Name	材质Material
1	阀体 Body	PPH
2	阀盖 Bonnet	PPH
3	隔膜 Diaphragm	EPDM+F46
4	阀瓣 Disc	UPVC
5	气缸 Cylinder	铝合金 Aluminum alloy
6	活塞 Piston	铝合金 Aluminum alloy
7	阀杆 Stem	不锈钢304/45# Stainliss steel 304/45#
8	连接方式 Way of connection	法兰 Flange



外形对照表

Shape control table

DN	L	D	D1				n	Φd	A	H	阀门重量 (KG)
			HG	JIS	DIN	ANSI					
15	125	95	65	70	65	60	4	14	110	215	2
20	135	105	75	75	75	70	4	14	110	220	2.3
25	145	115	85	90	85	80	4	14	110	225	2.5
32	150	135	100				4	18	140	240	3
40	180	145	110	105	110	100	4	18	170	285	5
50	210	160	125	120	125	120	4	18	170	307	8
65	250	180	145	140	145	140	4	18	200	327	13
80	300	195	160	150	160	152	8	18	230	390	16
100	350	215	180	175	180	190	8	18	260	470	24
125	400	245	210	210	210	216	8	18	310	637	30
150	480	280	240	240	240	240	8	23	370		
200	570	335	295	290	295	298	8	23	490		

Pneumatic UPVC Flange Diaphragm Valve

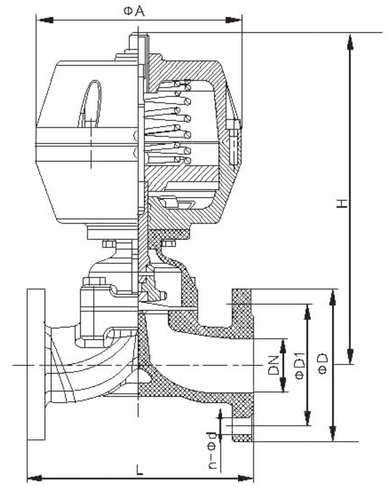
气动UPVC法兰式隔膜阀

采用耐腐蚀的阀体和耐腐蚀的隔膜、无填料函结构、节流元件为弹性隔膜、阀体流道平滑，故气动薄膜隔膜阀具有阴力小，流量大、无外漏和方便可靠、防火防爆的优点，广泛适用于工业自动化系统中的弱酸、弱碱、弱腐蚀、高粘度、含颗粒、带纤维以及有毒和不充许污染的介质的流量调节。

With corrosion resistant valve body and corrosion resistant diaphragm, non packing structure, throttle element for elastic diaphragm and smooth flow channel of valve body, the pneumatic diaphragm valve has the advantages of small negative force, large flow, no leakage, convenient and reliable, fireproof and explosion-proof, and is widely applicable to weak acid, weak alkali, weak corrosion in industrial automation system. Flow regulation of high viscosity, glume, fiber and toxic and non polluting media.

主要材料
Main material

NO.	名称Name	材质Material
1	阀体 Body	UPVC
2	阀盖 Bonnet	UPVC
3	隔膜 Diaphragm	EPDM+F46
4	阀瓣 Disc	UPVC
5	气缸 Cylinder	铝合金 Aluminum alloy
6	活塞 Piston	铝合金 Aluminum alloy
7	阀杆 Stem	不锈钢304/45# Stainliss steel 304/45#
8	连接方式 Way of connection	法兰 Flange



外形对照表
Shape control table

DN	L	D	D1				n	Φd	A	H	阀门重量 (KG)
			HG	JIS	DIN	ANSI					
15	125	95	65	70	65	60	4	14	110	215	2
20	135	105	75	75	75	70	4	14	110	220	2.3
25	145	115	85	90	85	80	4	14	110	225	2.5
32	150	135	100				4	18	140	240	3
40	180	145	110	105	110	100	4	18	170	285	5
50	210	160	125	120	125	120	4	18	170	307	8
65	250	180	145	140	145	140	4	18	200	327	13
80	300	195	160	150	160	152	8	18	230	390	16
100	350	215	180	175	180	190	8	18	260	470	24
125	400	245	210	210	210	216	8	18	310	637	30
150	480	280	240	240	240	240	8	23	370		
200	570	335	295	290	295	298	8	23	490		

Pneumatic PVDF Flange Diaphragm Valve

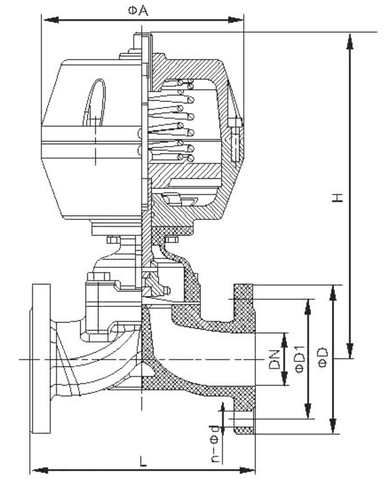
气动PVDF法兰式隔膜阀

采用耐腐蚀的阀体和耐腐蚀的隔膜、无填料函结构、节流元件为弹性隔膜、阀体流道平滑，故气动薄膜隔膜阀具有阴力小，流量大、无外漏和方便可靠、防火防爆的优点，广泛适用于工业自动化系统中的强酸、强碱、强腐蚀、高粘度、含颗粒、带纤维以及有毒和不充许污染的介质的流量调节。

The pneumatic diaphragm valve has the advantages of small negative force, large flow, no leakage, convenient and reliable, fireproof and explosion-proof, and is widely applied to strong acid, strong alkali and strong corrosion in industrial automation system. Flow regulation of high viscosity, glume, fiber and toxic and non polluting media.

主要材料
Main material

NO.	名称Name	材质Material
1	阀体 Body	PVDF
2	阀盖 Bonnet	PVDF
3	隔膜 Diaphragm	EPDM+F46
4	阀瓣 Disc	PVDF
5	气缸 Cylinder	铝合金 Aluminum alloy
6	活塞 Piston	铝合金 Aluminum alloy
7	阀杆 Stem	不锈钢304/45# Stainliss steel 304/45#
8	连接方式 Way of connection	法兰、承插、由令 Flange, socket-weld, thread



外形对照表
Shape control table

DN	L	D	D1				n	Φd	A	H	阀门重量 (KG)
			HG	JIS	DIN	ANSI					
15	125	95	65	70	65	60	4	14	110	215	2.5
20	135	105	75	75	75	70	4	14	110	220	2.8
25	145	115	85	90	85	80	4	14	110	225	3
32	150	135	100				4	18	140	240	3.5
40	180	145	110	105	110	100	4	18	170	285	6.5
50	210	160	125	120	125	120	4	18	170	307	9.5
65	250	180	145	140	145	140	4	18	200	327	16
80	300	195	160	150	160	152	8	18	230	390	19
100	350	215	180	175	180	190	8	18	260	470	27
125	400	245	210	210	210	216	8	18	310	637	33
150	480	280	240	240	240	240	8	23	370		
200	570	335	295	290	295	298	8	23	490		

Pneumatic PPH Socket Diaphragm Valve

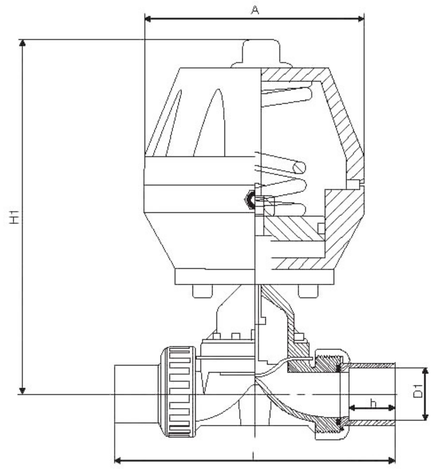
气动PPH承插式隔膜阀

采用耐腐蚀的阀体和耐腐蚀的隔膜、无填料函结构、节流元件为弹性隔膜、阀体流道平滑，故气动薄膜隔膜阀具有阴力小，流量大、无外漏和方便可靠、防火防爆的优点，广泛适用于工业自动化系统中的强酸、强碱、强腐蚀、高粘度、含颗粒、带纤维以及有毒和不充许污染的介质的流量调节。

The pneumatic diaphragm valve has the advantages of small negative force, large flow, no leakage, convenient and reliable, fireproof and explosion-proof, and is widely applied to strong acid, strong alkali and strong corrosion in industrial automation system. Flow regulation of high viscosity, glume, fiber and toxic and non polluting media.

主要材料
Main material

NO.	名称Name	材质Material
1	阀体 Body	PPH
2	隔膜 Diaphragm	F46
2a	拷贝 Copy	EPDM
3	阀瓣 Disc	GG40
4	阀盖 Cover	PPH
5	阀杆 Stem	2Cr13
6	阀杆螺母 Stem nut	HPb9-1
7	气缸 Cylinder	铝合金 Aluminium alloy
8	并帽 Cap	Ht250



外形对照表
Shape control table

NPS(in)	DN(mm)	PN(MPa)	size(mm)standard		reference		
			L	D1	A	H1	W(kg)
1/2	15	0.6	196	20	110	195	2
3/4	20	0.6	221	25	110	200	2.3
1	25	0.6	234	32	110	210	2.5
1 1/4	32	0.6	255	40	140	228	3
1 1/2	40	0.6	284	50	140	240	5
2	50	0.6	321	63	170	290	8

Pneumatic UPVC Double Driven Diaphragm Valve

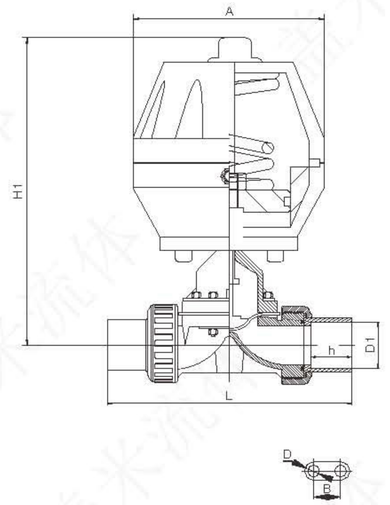
气动UPVC双由令隔膜阀

气动UPVC双由令隔膜阀的特点是隔膜把下部阀体内腔与上部阀盖内腔隔开，使位于隔膜上方的阀杆、阀瓣等零件不受介质腐蚀，省去了填料密封结构，且不会产生介质外漏。内腔隔开件是采用橡胶或塑料等软质密封制作的隔膜，密封性较好。

The pneumatic UPVC double diaphragm valve is characterized by a diaphragm valve that separates the inner cavity of the lower body from the inner cavity of the upper valve cover, so that the valve rod and valve disc above the diaphragm are not corroded by the medium, and the packing seal structure is omitted and the medium leakage will not be produced. The inner cavity partition is made of rubber or plastic soft seal, and the sealing performance is good.

主要材料
Main material

NO.	名称Name	材质Material
1	阀体 Body	UPVC
2	隔膜 Diaphragm	EPDM
2a	挎贝 Copy	EPDM
3	阀瓣 Disc	NILO
4	阀盖 Cover	UPVC
5	阀杆 Stem	2Cr13
6	阀杆螺母 Stem nut	HPb59-1
7	气缸 Cylinder	铝合金 Aluminium alloy
8	并帽 Cap	塑科 Plastic



外形对照表
Shape control table

NPS(in)	DN(mm)	PN(MPa)	Size(mm)standard		Reference			D	B
			L	D1	A	H1	W(kg)		
1/2	15	0.6	145	20	110	195	2	8	25
3/4	20	0.6	160	25	110	200	2.3	8	25
1	25	0.6	175	32	110	210	2.5	8	25
1 1/4	32	0.6	200	40	110	228	3	8	36
1 1/2	40	0.6	225	50	140	240	5	10	36
2	50	0.6	272	63	170	290	8	10	45

Pneumatic PVDF Socket Diaphragm Valve

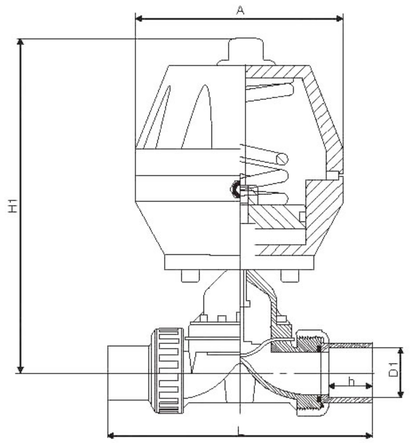
气动PVDF承插隔膜阀

采用带有耐腐蚀衬里的阀体和耐腐蚀的隔膜、无填料函结构、节流元件为弹性隔膜、阀体流道平滑，故气动薄膜隔膜阀具有阴力小，流量大、无外漏和方便可靠、防火防爆的优点，广泛适用于工业自动化系统中的强酸、强碱、强腐蚀、高粘度、含颗粒、带纤维以及有毒和不充许污染的介质的流量调节。

The diaphragm and the valve body with corrosion resistant lining and corrosion stuffing structure, throttling element for the elastic diaphragm and the valve body flow smoothly, so the pneumatic diaphragm valve has a negative film force is small, large flow, no leakage, fire and explosion prevention and convenient and reliable advantages, widely used in industrial automation system in strong acid, alkali, strong corrosion, high viscosity, containing grains, fiber and toxic and not allow pollution of medium flow regulation.

主要材料
Main material

NO.	名称Name	材质Material
1	阀体 Body	PVDF
2	隔膜 Diaphragm	F46
2a	拷贝 Copy	EPDM
3	阀瓣 Disc	PVDF
4	阀盖 Cover	PVDF
5	阀杆 Stem	2Cr13
6	阀杆螺母 Stem nut	HPb9-1
7	气缸 Cylinder	铝合金 Aluminium alloy
8	并帽 Cap	304



外形对照表
Shape control table

NPS(in)	DN(mm)	PN(MPa)	Size(mm)standard		Reference		
			L	D1	A	H1	W(kg)
1/2	15	0.6	196	20	110	195	2
3/4	20	0.6	221	25	110	200	2.3
1	25	0.6	234	32	110	210	2.5
1 1/4	32	0.6	255	40	140	228	3
1 1/2	40	0.6	284	50	140	240	5
2	50	0.6	321	63	170	290	8

BCST

Pneumatic Stainless Steel Flange Diaphragm Valve

气动不锈钢法兰式隔膜阀

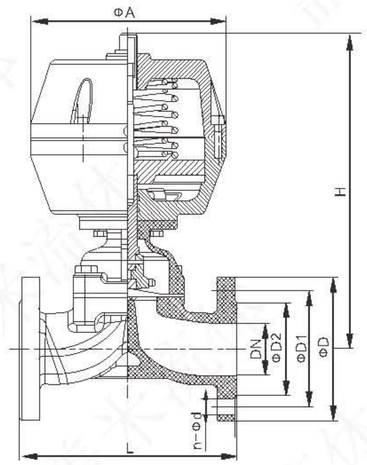
采用316L阀体和耐腐蚀的隔膜、无填料函结构、节流元件为弹性隔膜、阀体流道平滑，故气动薄膜隔膜阀具有阴力小，流量大、无外漏和方便可靠、防火防爆的优点，广泛适用于工业自动化系统中的强酸、强碱、强腐蚀、高粘度、含颗粒、带纤维以及有毒和不充许污染的介质的流量调节。

316L valve body and corrosion resistant diaphragm, non stuffing structure, throttle element are elastic diaphragm and smooth flow channel of valve body, so the pneumatic diaphragm valve has the advantages of small negative force, large flow, no leakage, convenient and reliable, fireproof and explosion-proof, and is widely applicable to strong acid, strong alkali, strong corrosion and high viscosity in industrial automation system. The flow regulation of media containing spikelets, fibers and toxic and non polluting media.

主要材料

Main material

NO.	名称Name	材质Material
1	阀体 Body	316L
2	阀盖 Bonnet	304
3	隔膜 Diaphragm	EPDM+PTFE
4	阀瓣 Disc	304
5	气缸 Cylinder	铝合金 Aluminum alloy
6	活塞 Piston	铝合金 Aluminum alloy
7	阀杆 Stem	不锈钢304/45# Stainliss steel 304/45#
8	连接方式 Way of connection	法兰 Flange



外形对照表

Shape control table

DN	L	D1	D	n	c	B	A	H
15	125	65	95	4	14	14	110	215
20	135	75	105	4	14	16	110	220
25	145	85	115	4	14	16	110	225
32	150	100	135	4	18	16	140	240
40	180	110	145	4	18	16	170	285
50	210	125	160	4	18	18	170	305
65	250	145	180	4	18	27	200	307
80	300	160	195	4	18	25	230	327
100	350	180	215	8	18	25	260	390

注：具体阀体尺寸可定做Note: specific body size can be customized

Pneumatic Stainless Steel Wire Buckle Diaphragm Valve

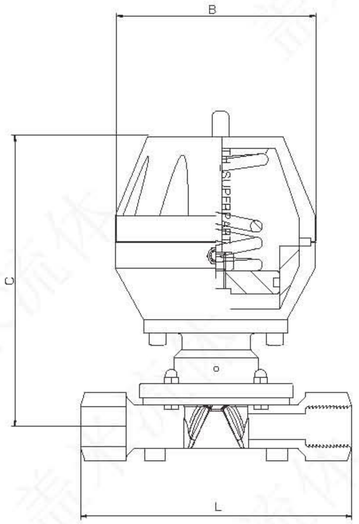
气动不锈钢丝扣隔膜阀

采用316L阀体和耐腐蚀的隔膜、无填料函结构、节流元件为弹性隔膜、阀体流道平滑，故气动薄膜隔膜阀具有阴力小，流量大、无外漏和方便可靠、防火防爆的优点，广泛适用于工业自动化系统中的强酸、强碱、强腐蚀、高粘度、含颗粒、带纤维以及有毒和不充许污染的介质的流量调节。

316L valve body and corrosion resistant diaphragm, non stuffing structure, throttle element are elastic diaphragm and smooth flow channel of valve body, so the pneumatic diaphragm valve has the advantages of small negative force, large flow, no leakage, convenient and reliable, fireproof and explosion-proof, and is widely applicable to strong acid, strong alkali, strong corrosion and high viscosity in industrial automation system. The flow regulation of media containing spikelets, fibers and toxic and non polluting media.

主要材料
Main material

NO.	名称Name	材质Material
1	阀体 Body	316L
2	阀盖 Bonnet	304
3	隔膜 Diaphragm	PTFE+EPDM
4	阀瓣 Disc	304
5	气缸 Cylinder	铝合金 Aluminum alloy
6	活塞 Piston	铝合金 Aluminum alloy
7	阀杆 Stem	不锈钢304/45# Stainliss steel 304/45#
8	连接方式 Way of connection	丝扣 Silk buckle



外形对照表
Shape control table

DN	L	B	C
1/2	108	110	195
3/4	108	110	195
1	128	110	210
1 1/4	150	140	230
1 1/2	180	140	240
2	200	170	290
2 1/2	215	190	340
3	243	225	370

Pneumatic Hygienic Grade Welding Diaphragm Valve

气动卫生级焊接隔膜阀

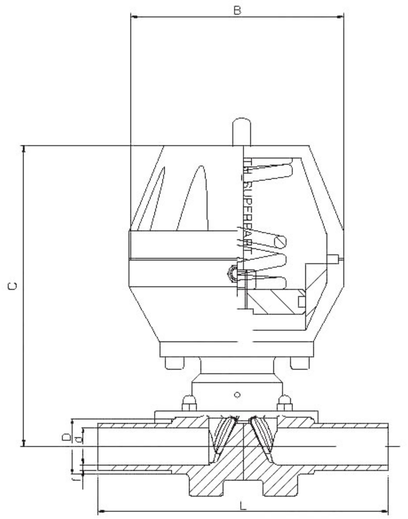
卫生级隔膜阀广泛适用于卫生级的酿酒、乳制品以及饮料等食品工业以及无菌工况的制药领域，实现对管道流体的控制和开/关任务。该阀门的组成部件包括：一个执行装置，膜片和阀体，是用螺栓及螺母组装在一起，整个阀门的组装都是精心细致的。其执行装置包括手动和气动，膜片具有各种软硬程度的人造橡胶，阀体为两通或三通阀。

Sanitary diaphragm valves are widely applied in the field of health, such as brewery, dairy products, beverages, food industry and aseptic working area, so as to achieve the control and opening / closing tasks of pipeline fluid. The components of the valve include: an executive device, diaphragm and valve body, assembled by bolts and nuts, and the assembly of the whole valve is meticulous and meticulous. The actuator includes manual and pneumatic, the diaphragm has a variety of soft and hard artificial rubber, the valve body is two or three valve.

主要材料

Main material

NO.	名称Name	材质Material
1	阀体 Body	316L
2	阀盖 Bonnet	304
3	隔膜 Diaphragm	PTFE+EPDM
4	阀瓣 Disc	304
5	气缸 Cylinder	铝合金 Aluminum alloy
6	活塞 Piston	铝合金 Aluminum alloy
7	阀杆 Stem	不锈钢304/45# Stainliss steel 304/45#
8	连接方式 Way of connection	焊接 Welding



外形对照表

Shape control table

DN	L	D	d	B	C	n
15	108	12,7	16	110	195	1.65
20	108	19	16	110	195	1.65
25	128	25,4	22	110	210	1.65
32	150	31,8	29	140	230	1.65
40	180	38,1	35	140	240	1.65
50	200	50,8	48	170	290	1.65
65	215	63,5	62	190	340	1.65
80	243	76,2	86	225	370	1.65

Pneumatic Sanitary Quick Diaphragm Valve

气动卫生级快装隔膜阀

应用:

隔膜阀是一款卫生型的隔膜阀系列，广泛适用于卫生级的酿酒、乳制品以及饮料等食品工业以及无菌工况的制药领域，实现对管道流体的控制和开/关任务。

Application:

Diaphragm valve diaphragm valve is a type of health, widely applicable to the health level of the wine, dairy products, beverages and other food industry as well as aseptic conditions of the pharmaceutical field, to achieve control of the pipeline fluid and on / off task.

工作原理

隔膜阀常规状态下为封闭状态，此时膜片紧贴阀体的内腔，关闭者管道流体通向路径。当隔膜阀需要清洗任务或需要开启任务时，通过手动旋转手轮或驱动气动控制执行装置来带动阀杆向上运动，球形膜片随之向上弯曲，从而使阀门行程导通状态，则可实现清洗和开启的目的。其中膜片把下部阀体内腔和上部阀盖内腔隔开，使位于膜片上部的阀杆、阀芯等零件不受介质的腐蚀，省去了填料密封结构，而且不会产生介质泄漏。优化的阀体设计，使清洗液完全排泄，不会形成滞留现象。

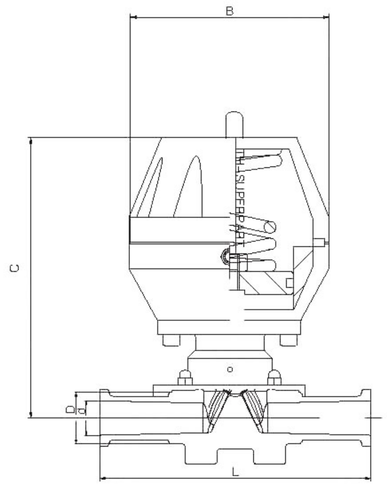
Working principle：

The conventional state of the diaphragm is closed, and the diaphragm is close to the inner cavity of the valve body at this time. When the diaphragm valve needs cleaning or need to open the task, by manually rotating the handwheel or drive the pneumatic control device to drive the stem upward movement of diaphragm with spherical curved upward, so that the valve stroke conduction state, can achieve the purpose of opening and cleaning. The diaphragm to the lower part of the body cavity and the upper valve cover cavity separated, so that the upper part of the diaphragm valve stem, valve core and other parts of the media from the corrosion, eliminating the packing seal structure, and will not produce medium leakage. Optimization of the body design, so that the cleaning fluid is completely excreted, will not travel retention phenomenon.

主要材料

Main material

NO.	名称Name	材质Material
1	阀体 Body	316L
2	阀盖 Bonnet	304
3	隔膜 Diaphragm	PTFE-EPDM
4	阀瓣 Disc	304
5	气缸 Cylinder	铝合金 Aluminum alloy
6	活塞 Piston	铝合金 Aluminum alloy
7	阀杆 Stem	不锈钢304/45# Stainliss steel 304/45#
8	连接方式 Way of connection	快装 Fast loading



外形对照表

Shape control table

DN	L	D	d	B	C
15	108	50,4	16	110	195
20	108	50,4	16	110	195
25	128	50,4	22	110	210
32	150	50,4	29	140	230
40	180	50,4	35	140	240
50	200	64	48	170	290
65	215	78	62	190	340
80	243	106	86	225	370

BCST

Manual Sanitary Diaphragm Valve

手动卫生级隔膜阀

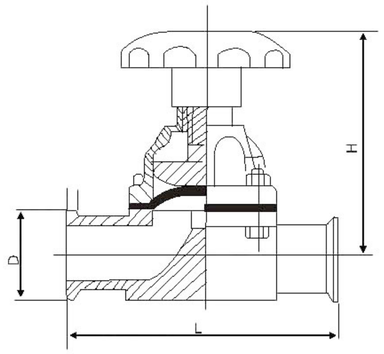
手动卫生级隔膜阀广泛适用于卫生级的酿酒、乳制品以及饮料等食品工业以及无菌工况的制药领域，实现对管道流体的控制和开/关任务。该阀门的组成部件包括：一个执行装置，膜片和阀体，是用螺栓及螺母组装在一起，整个阀门的组装都是精心细致的。其执行装置包括手动和气动，膜片具有各种软硬程度的人造橡胶，阀体为两通或三通阀。

Sanitary diaphragm valves are widely applied in the field of health, such as brewery, dairy products, beverages, food industry and aseptic working area, so as to achieve the control and opening / closing tasks of pipeline fluid. The components of the valve include: an executive device, diaphragm and valve body, assembled by bolts and nuts, and the assembly of the whole valve is meticulous and meticulous. The actuator includes manual and pneumatic, the diaphragm has a variety of soft and hard artificial rubber, the valve body is two or three valve.

主要材料

Main material

NO.	名称Name	材质Material
1	阀体 Body	316L
2	阀盖 Bonnet	304
3	隔膜 Diaphragm	PTFE-EPDM
4	活塞 Piston	铝合金 Aluminum alloy
5	阀杆 Stem	不锈钢304/45# Stainliss steel 304/45#
6	连接方式 Way of connection	快装 Fast loading



外形对照表

Shape control table

Size	A	B	C	H
12.7	108.0	25.4	6.0	93.5/102.5
19	108.0	25.4	6.0	93.5/102.5
25	118.0	50.5	6.0	111.5/122
32	127.0	50.5	6.0	144.5/160
38	146.0	50.5	6.0	144.5/160
51	190.0	64.0	6.0	167/190
63	216.0	77.5	6.0	199/228

BCST

Sanitary
Three-way Diaphragm Valve

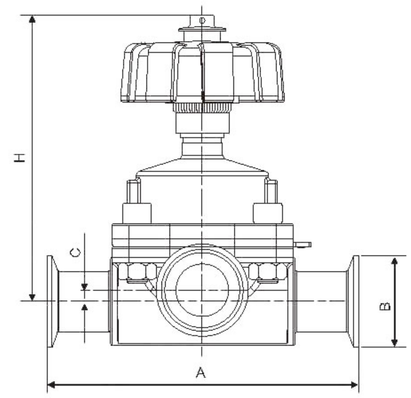
卫生级三通隔膜阀

卫生级隔膜阀广泛适用于卫生级的酿酒、乳制品以及饮料等食品工业以及无菌工况的制药领域，实现对管道流体的控制和开/关任务。该阀门的组成部件包括：一个执行装置，膜片和阀体，是用螺栓及螺母组装在一起，整个阀门的组装都是精心细致的。其执行装置包括手动和气动，膜片具有各种软硬程度的人造橡胶，阀体为两通或三通阀。

Sanitary diaphragm valves are widely applied in the field of health, such as brewery, dairy products, beverages, food industry and aseptic working area, so as to achieve the control and opening / closing tasks of pipeline fluid. The components of the valve include: an executive device, diaphragm and valve body, assembled by bolts and nuts, and the assembly of the whole valve is meticulous and meticulous. The actuator includes manual and pneumatic, the diaphragm has a variety of soft and hard artificial rubber, the valve body is two or three valve.

主要材料
Main material

NO.	名称Name	材质Material
1	阀体 Body	UPVC
2	阀盖 Bonnet	UPVC
3	隔膜 Diaphragm	PTFE-EPDM
4	阀瓣 Disc	UPVC
5	气缸 Cylinder	铝合金 Aluminum alloy
6	活塞 Piston	铝合金 Aluminum alloy
7	阀杆 Stem	不锈钢304 Stainliss steel 304
8	连接方式 Way of connection	法兰、承插、由令 Flange, socket-weld, thread



外形对照表
Shape control table

SIZE	A	B	C	H
12.7	108.0	25.4	6.0	93.5/102.5
19	108.0	25.4	6.0	93.5/102.5
25	118.0	50.5	6.0	111.5/122
32	127.0	50.5	6.0	144.5/160
38	146.0	50.5	6.0	144.5/160
51	190.0	64.0	6.0	167/190
63	216.0	77.5	6.0	199/228

Sanitary
Tank Bottom Valve

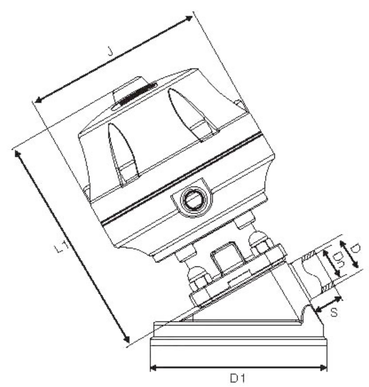
卫生级罐底阀

这种具有锻/铸不锈钢的膜片阀适用于控制超纯、无菌、腐蚀性或磨蚀性的流体，通过高质量的中性化学膜片将苛刻的流体密封隔离，阀体表面高洁净平滑，无死角流道设计，自排净安装角度，易于拆卸维护和清洗。适用于各种应用场合如食品饮料、制药、生物技术、精细化工，半导体超纯行业等。

This forged / cast stainless steel diaphragm valve is suitable for controlling ultra pure, aseptic, corrosive, or abrasive fluids. The fluid seal is isolated by high quality neutral chemical diaphragm, the body surface Gao Jie is clean and smooth, without dead angle flow design, self cleaning angle, easy to disassemble and maintain and clean. It is suitable for various applications, such as food and beverage, pharmaceutical, biotechnology, fine chemical industry, semiconductor ultra pure industry and so on.

主要材料
Main material

NO.	名称Name	材质Material
1	阀体 Body	不锈钢SUS316L、SUS304
2	阀盖 Bonnet	304
3	隔膜 Diaphragm	PTFE-EPDM
4	阀瓣 Disc	UPVC
5	气缸 Cylinder	铝合金 Aluminum alloy
6	活塞 Piston	铝合金 Aluminum alloy
7	阀杆 Stem	不锈钢304 Stainliss steel 304



外形对照表
Shape control table

DN	Dn	D	D1	S	J	L1	L
DN20	19	22	120	25	132	163	92
DN25	25	28	120	25	132	163	92
DN32	31	34	140	25	161	210	110
DN40	37	40	140	29	161	210	110
DN50	49	52	200	30	161	215	153

INCH	Dn	D	D1	S	J	L1	L
ϕ19	16.05	19.1	120	25	132	163	92
ϕ25.4	22.4	25.4	120	25	132	163	92
ϕ31.8	28.8	31.8	140	25	161	210	110
ϕ38.1	35.1	38.1	140	29	161	210	110
ϕ50.8	47.8	50.8	200	30	161	215	153