衬氟闸阀

FLUORINE LINING GATE VALVES

产品概述 Product overview

衬氟闸阀是一种最常见的启闭阀门，利用两侧面密封呈楔状的闸板来接通或截断管路中介质。楔式闸阀不允许微量开启在管路中作节流装置用，以免因高速流动的介质冲蚀而加快密封面的损坏。

Fluorine Lining Gate Valvesis the most common open-close valve, using the wedged sealing disc placed on the two sides to put through Or cut the medium in the pipeline. It can't be used as adjusting flow device by slight opening, or the sealing face will be eroded and destroyed soon by high speed medium.

产品特点 Product Features

- 阀体有扁体和圆体两种形状：GB阀门采用圆体，ANSI磅级阀门DN≤300采用扁体，DN≤400采用圆体。阀体、阀盖的内腔和闸板、阀杆外表面等直接与介质接触的部件，全部包衬FEP(F46)或PCTFE(F3)等氟塑料；
- 密封副为FEP(F46)/PCTFE(F3)或其它材料组合，摩擦系数小，启 闭力矩低；
- 填料采用柔性石墨标准填料，密封性能好，维修更换方便；
- 带有弹性的闸板，可补偿闸板密封面与阀座密封面之间楔角偏差，吻合度好，密封效果理想；
- 介质可从两侧任意方向通过闸阀，适用于介质方向可能改变的管路上启闭装置。

- Wedged gate valve has two kinds of shapes of flat and round, GB valves is round shape, ANSI lb class valve and DN≤300 is flat shape, DN≤400 is round shape. The cavity of body and bonnet and the outer face of disc and stem which contact the medium directly are coated with FEP(F46) or PCTFE(F3).
- The sealing pair is of FEP(F46)/PCTFE(F3) , with small friction and low opening and closing torque.
- The packing with graphite has good sealing performance and convenient maintenance.
- The elastic wedge can compensate the wedge deviation between wedge sealing face and seat sealing face which will have a good sealing performance.
- The medium can access the gate valve through any direction, suitable as a opening and closing device for the pipeline which the direction of medium may change.

执行标准 Executive standard

设计与制造 Design and manufacture	GB12234 API 600
结构长度 Face to face	GB12221 ANSI B16.10
法兰尺寸 Flange dimension	JB78/JB79 ANSI B16.5(或按合同要求) GB9113.5(PN4.0) Or accrding to contract
压力试验 Pressure test	GB/T 13927 API 598
标志 Symbol	GB 12220 API 600
供货 Supply	GB/T 12252 API 600

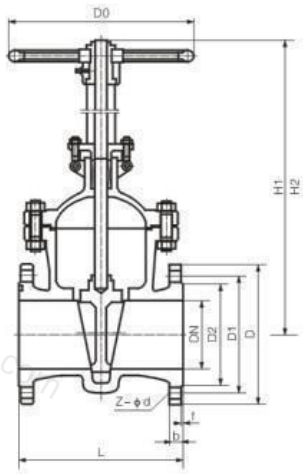
主要零部件材料表 Main parts material specifications

序号 No	零件名称 Parts name	灰铸铁 Grey cast iron	碳钢 Carbon steel	不锈钢 Stainless steel		超低碳不锈钢 Low carbon stainless steel	
		Z	C	P	R	PL	RL
1	阀体、阀盖、闸板 Body Bonnet Wedge	HT250	WCB	CF8	CF8M	CF3	CF3M
2	衬里层/阀座 Lining/Seat	PCTFE(F_3) PVDF(F_2) FEP(F_{46}) PFA(可溶性聚四氟乙烯) PO(聚烯烃)					
3	阀杆 Stem	1Cr13	2Cr13	1Cr18Ni9	1Cr18Ni12Mo12Ti	00Cr18Ni10	00Cr17Ni14Mo2
4	填料、垫片 Packing、Gasket	柔性石墨(Flexible graphite) PTFE(F_4)					
5	中法兰螺栓 Middle flange bolt	35	35CrMoA	1Cr17Ni2	1Cr17Ni2	1Cr18Ni9	1Cr18Ni9
6	中法兰螺母 Middle flange nut	45	45	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9
7	支架 Yoke	HT250 WCB CF8					
8	阀杆螺母 Stem nut	ZCuAl10Fe3				A439 D2	
9	手轮 Hand wheel	KT330-08				QT400-15	

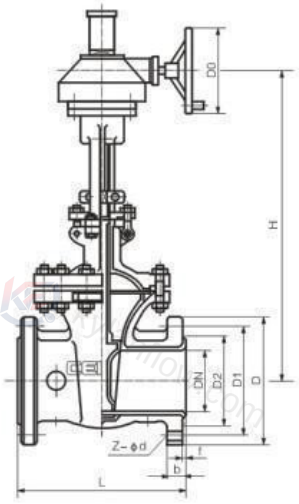
衬氟闸阀

FLUORINE LINING GATE VALVES





Z41$F_{46}^{F_3}$ 型 法兰连接手动楔式闸阀
Flange type H.O wedge gate valve



Z541$F_{46}^{F_3}$ 型 法兰连接伞齿轮楔式闸阀
Flange type bevel G.O.wedge gate valve

基本型号(全衬里) Basic type(Fully lined)

手动 Manually	Z41F_3	齿轮传动 Gear operated	Z441F_3	气动 Pneumatic	Z641F_3	电 动 Electric	Z941F_3
	Z41F_{46}				Z641F_{46}		Z941F_{46}

主要外形尺寸 Main Dimensions

公称通径 Nominal diameter		标准值 Standard							参考值 Reference			
DN (mm)	NPS (inch)	L	D	D1	D2	f	b	Z-φd	Do	H1	H2	W(Kg)
		PN1.6(MPa)										
15	1/2	140	95	65	45	2	14	4-φ14	120	110	130	7
20	3/4	152	105	75	55	2	16	4-φ14	120	120	140	8
25	1	165	115	85	65	2	16	4-φ14	120	135	160	9
32	11/4	178	135	100	78	2	18	4-φ18	160	160	190	13
40	11/2	240	145	110	85	3	18	4-φ18	160	170	220	25
50	2	250	160	125	100	3	20	4-φ18	160	360	410	32
65	21/2	270	180	145	120	3	20	4-φ18	180	380	440	38
80	3	280	195	160	135	3	22	8-φ18	180	440	520	50
100	4	300	215	180	155	3	24	8-φ18	240	500	600	68
125	5	325	245	210	185	3	26	8-φ18	240	615	740	125
150	6	350	280	240	210	3	28	8-φ23	280	680	830	170
200	8	400	335	295	265	3	30	12-φ23	280	820	1020	210
250	10	450	405	355	320	3	32	12-φ25	320	980	1230	260
300	12	500	460	410	375	4	34	12-φ25	320	1150	1450	480
350	14	550	520	470	435	4	38	16-φ25	400	1285	1635	620
400	16	600	580	525	485	4	40	16-φ30	400	1455	1855	805
450	18	650	640	585	545	4	44	20-φ30	500	1545	1990	880
500	20	700	705	650	608	4	46	20-φ34	500	1735	2235	920

衬氟闸阀

FLUORINE LINING GATE VALVES

主要外形尺寸 Main Dimensions

公称通径 Nominal diameter		标准值 Standard							参考值 Reference			
DN(mm)	NPS(inch)	L	D	D1	D2	f	b	Z-φd	Do	H1	H2	W(Kg)
		PN2.5(MPa)										
15	1/2	140	95	65	45	2	16	4-φ14	120	110	130	8
20	3/4	152	105	75	55	2	16	4-φ14	120	120	140	9
25	1	165	115	85	65	2	16	4-φ14	160	135	160	10
32	11/4	178	135	100	78	2	18	4-φ18	160	160	190	14
40	11/2	240	145	110	85	3	18	4-φ18	180	170	220	28
50	2	250	160	125	100	3	20	4-φ18	180	360	410	36
65	21/2	270	180	145	120	3	22	8-φ18	240	380	440	45
80	3	280	195	160	135	3	22	8-φ18	240	440	520	58
100	4	300	230	190	160	3	24	8-φ23	280	500	600	76
125	5	325	270	220	188	3	28	8-φ25	280	615	740	143
150	6	350	300	250	218	3	30	8-φ25	320	680	830	178
200	8	400	360	310	278	3	34	12-φ25	320	820	1020	243
250	10	450	425	370	332	3	36	12-φ30	400	980	1230	275
300	12	500	485	430	390	4	40	16-φ30	400	1150	1450	520

主要外形尺寸 Main Dimensions

公称通径 Nominal diameter		标准值 Standard							参考值 Reference			
DN(mm)	NPS(inch)	L	D	D1	D2	f	b	Z-φd	Do	H1	H2	W(Kg)
		PN4.0(MPa)										
15	1/2	108	89	60.5	35	2	12	4-φ15	120	110	130	8
20	3/4	117	98	70	43	2	12	4-φ15	120	120	140	9
25	1	127	108	79.5	51	2	12	4-φ15	160	135	160	10
32	11/4	140	117	89	64	2	13	4-φ15	160	160	190	13
40	11/2	165	127	98.5	73	2	15	4-φ15	180	170	220	26
50	2	178	152	120.5	92	2	16	4-φ19	180	360	410	34
65	21/2	190	178	139.5	105	2	18	4-φ19	240	380	440	42
80	3	203	190	152.5	127	2	19	4-φ19	240	440	520	54
100	4	229	229	190.5	157	2	24	8-φ19	280	500	600	72
125	5	254	254	216	186	2	24	8-φ22	280	615	740	132
150	6	267	279	241.5	216	2	26	8-φ22	320	680	830	175
200	8	292	343	298.5	270	2	29	8-φ22	320	820	1020	220
250	10	330	406	362	324	2	31	12-φ25	400	980	1230	265
300	12	356	483	432	381	2	32	12-φ25	400	1150	1450	490
350	14	381	533	476	413	2	35	12-φ29	450	1285	1635	620
400	16	406	597	540	470	2	37	16-φ29	450	1455	1855	810
450	18	432	635	578	533	2	40	16-φ32	500	1545	1990	890
500	20	457	699	635	584	2	43	20-φ32	500	1735	2235	940
600	24	508	813	749.5	692	2	48	20-φ35	500	1850	2450	980

衬氟截止阀

FLUORINE LINING GLOBE VALVES

产品概述 Product overview

衬氟截止阀是指关闭件 (阀瓣)由阀杆带动并沿阀座中心轴线做升降运动的阀门，在管路上主要用来接通或截断管路中的介质，但不能做节流用。

Fluorine Lining Globe Valves our company produced is that the disc moves up and down along the center line of seat driven by stem, used for connecting or shutting off the medium and not suitable for regulating the flow.

产品特点 Product Features

- 氟塑料全衬里J41F46型直通式、J45F46型直流式、J44F46型角截止阀，具有结构紧凑、启闭灵活、耐腐蚀性能强，行程短等多项优点，被广泛应用在石油、化工等管路系统中做截断介质用，但需要强调的是氟塑料衬里的截止阀严禁用做流量调节，以免节流口处产生的高速介质流冲蚀破坏密封面。
- 阀瓣与阀杆设计为一体结构，用以防止由于管路压力波动造成内件冲出 阀体的可能性，结构紧凑，使 用安全。
- Full lined fluoroplastic of the through way type J41F46, Y type J45F46 and J44F46 angle globe valves are widely used in the area of oil, chemical and industry pipe system for the shut-off function because of the characteristics of compact structure,flexible open and close, good erosion proof performance and short process, but the globe valve can not be used to adjust low because the F rapid-speed medium flow will destroy and erode the sealing face.
- Disc and stem of valve are designed as a whole to avoid the inner parts dashing out of the valve due to the pressure wave.

执行标准 Executive standard

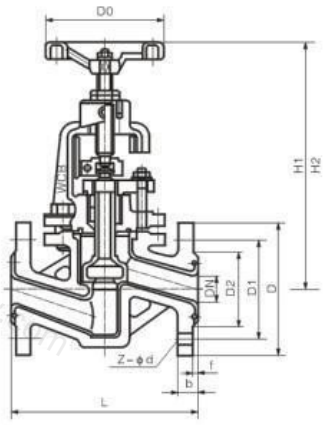
设计与制造 Design and manufacture	GB12233/GB12235
结构长度 Face to face	GB 12221(长一短系列) Short-long pattern series
法兰尺寸 Flange dimension	JB78/JB79(或按合同要求) Or accrding to contract
压力试验 Pressure test	GB/T 13927
标志 Symbol	GB 12220
供货 Supply	GB/T 12252

主要零部件材料表 Main parts material specifications

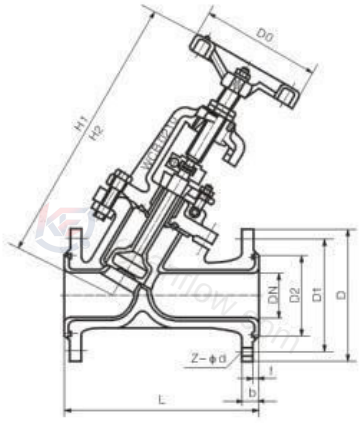
序号 No	零件名称 Parts name	灰铸铁 Grey cast iron	碳钢 Carbon steel	不锈钢 Stainless steel		超低碳不锈钢 Low carbon stainless steel	
		Z	C	P	R	PL	RL
1	阀体、阀盖 Body, Bonnet	HT250	WCB	CF8	CF8M	CF3	CF3M
2	阀瓣、阀杆 Disc, stem	35	1Cr13	1Cr18Ni9	1Cr18Ni12Mo12Ti	00Cr18Ni10	00Cr17Ni14Mo2
3	活节螺栓 Swing bolt	35	35	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2
4	衬里层/阀座 Lining/Seat	FEP(F_{46}) PCTFE(F_3) PFA(可溶性聚四氟乙烯) PO(聚烯烃)					
5	填料 Packing	PTFE(F_4) PTFE(F_4)					
6	填料压盖 Packing gland	WCB	WCB	CF8	CF8M	CF3	CF3M
7	阀杆螺母 Stem nuts	ZCuAl10Fe3		ZCuAl10Fe3			
8	螺栓 Bolt	35	35CrMoA	1Cr17Ni2	1Cr17Ni2	1Cr18Ni9Ti	1Cr18Ni9Ti
9	螺母 Nuts	45	45	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9
10	手柄 Handwheel	HT200	HT200	WCC	WCC	WCC	WCC

衬氟截止阀
FLUORINE LINING GLOBE VALVES



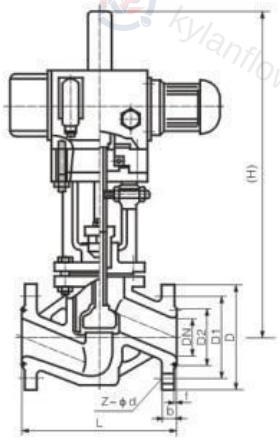


J41F_3^1 型法兰连接手动截止阀(直通式)
Flange type handwheel operated globe vavle (straight way)

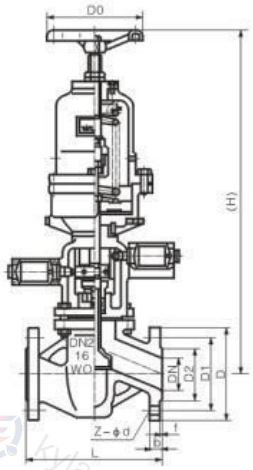


J45F_3^7 型法兰连接手动截止阀(直流式)
Flange type handwheel operated globe valve (Y type)





J941F_3^7 型法兰连接电动截止阀(直通式)
Flange type electric operated globe valve (straight way)



J641F_3^7 型 法兰连接气动截止阀(常闭式)
Flange type pneumatic operated globe valve (close type)

基本型号(全衬里) Basic type(Fully lined)

手动 Manually	J41F_3 J41F_{46}	齿轮传动 Gear operated	J541F_3 J541F_{46}
	J45F_3 J45F_{46}		
气动 Pneumatic	J641F_3 J6B41F_{46}	电动 Electric	J941F_3 J941F_{46}

衬氟截止阀

FLUORINE LINING GLOBE VALVES

主要外形尺寸 Main Dimensions

公称通径 Nominal diameter		标准值 Standard							参考值 Reference			
DN (mm)	NPS (inch)	L	D	D1	D2	f	b	Z-φd	Do	H1	H2	W(Kg)
		PN1.0(MPa)										
15	1/2	130	95	65	45	2	14	4-φ14	100	235	260	6.5
20	3/4	150	105	75	55	2	16	4-φ14	100	240	265	7
25	1	160	115	85	65	2	16	4-φ14	120	245	270	7.8
32	11/4	180	135	100	78	2	18	4-φ18	140	255	285	11
40	11/2	200	145	110	85	3	18	4-φ18	140	285	315	13
50	2	230	160	125	100	3	20	4-φ18	160	295	330	15
65	21/2	290	180	145	120	3	20	4-φ18	180	350	395	23
80	3	310	195	160	135	3	22	4/8-φ18	240	395	445	38
100	4	350	215	180	155	3	22	8-φ18	240	450	490	42
125	5	400	245	210	185	3	24	8-φ18	280	525	555	55
150	6	480	280	240	210	3	24	8-φ23	320	605	645	77
200	8	495	335	295	265	3	26	8-φ23	360	645	765	135
250	10	622	390	350	320	3	28	12-φ23	400	685	805	220
300	12	698	440	400	368	4	28	12-φ23	400	710	814	277
350	14	787	500	460	428	4	30	16-φ23	450	750	855	320
		PN1.6(MPa)										
15	1/2	130	95	65	45	2	14	4-φ14	100	240	265	7
20	3/4	150	105	75	55	2	16	4-φ14	100	245	270	7.6
25	1	160	115	85	65	2	16	4-φ14	120	250	275	8.2
32	11/4	180	135	100	78	2	18	4-φ18	140	260	290	12
40	11/2	200	145	110	85	3	18	4-φ18	140	285	320	14
50	2	230	160	125	100	3	20	4-φ18	160	300	335	18
65	21/2	290	180	145	120	3	20	4-φ18	180	355	400	26
80	3	310	195	160	135	3	22	8-φ18	240	400	450	40
100	4	350	215	180	155	3	24	8-φ18	240	455	495	50
125	5	400	245	210	185	3	26	8-φ18	280	530	560	65
150	6	480	280	240	210	3	28	8-φ23	320	610	650	85
200	8	495	335	295	265	3	30	12-φ23	360	650	770	150
250	10	622	405	355	320	3	32	12-φ25	400	690	810	245
300	12	698	460	410	375	4	34	12-φ25	400	730	845	295
		PN2.5(MPa)										
15	1/2	130	95	65	45	2	16	4-φ14	120	240	265	7.5
20	3/4	150	105	75	55	2	16	4-φ14	120	245	270	8
25	1	160	115	85	65	2	16	4-φ14	140	250	275	9
32	11/4	180	135	100	78	2	18	4-φ18	160	260	290	13
40	11/2	200	145	110	85	3	18	4-φ18	180	285	320	15
50	2	230	160	125	100	3	20	4-φ18	180	300	335	20
65	21/2	290	180	145	120	3	22	8-φ18	240	355	400	28
80	3	310	195	160	135	3	22	8-φ18	280	400	450	42
100	4	350	230	190	160	3	24	8-φ23	320	455	495	57
125	5	400	270	220	188	3	28	8-φ25	320	530	560	71
150	6	480	300	250	218	3	30	8-φ25	360	610	650	90

*法兰尺寸PN1.0MPa、DN80螺栓孔数量JB78时Z=4，其它标准时Z=8。
When flange to PN1.0MPa、DN80, Jb78, screw hole Z=4, to other parameter Z=8.

衬氟止回阀

FLUORINE LINING CHECK VALVES

产品概述 Product overview

衬氟止回阀是一种依靠介质本身的流动，而自动启、闭阀瓣，用来阻止介质逆向流动的自动阀门。

Fluorine lined check valve is a kind of automatic valve which depends on the flow of medium itself and automatically opens and closes the valve disc to prevent the reverse flow of medium.

产品特点 Product Features

- 旋启式止回阀主要型号有：全衬里H44F46与H74F46单瓣旋启式系列和H76F46型双瓣旋启式系列，它们的结构形式为：阀瓣都是围绕阀座外的(销)轴旋转、启闭，防止介质倒流。H44F46和H74F46型止回阀的特点是：(销)轴与阀瓣设计为一体，全部衬 FEP的(销)轴，镶嵌在阀体与阀盖之间形成 的特凹槽内，启闭灵活，密封可靠，另外，H72F46与H76F46型止回阀的特点是：除了阀体、阀瓣外，复位弹簧也全部包衬了耐 腐蚀的氟塑料，设计合理的弹簧，使阀瓣在低压区内也能产生足够的密封比压，保证阀门在低压力区密封的可靠性。
- 升降立式止回阀主要型号有全衬里H40F46型，H42F46和H72F46升降立式止回阀，其中H40F46是一种新型结构，阀瓣为半球型，它们共同特点是衬氟阀瓣沿阀体通路轴线做升降运动。
- 升降式止回阀主要型号有：全衬里H41F46直通升降式止回阀，其结构特点是：衬氟阀瓣垂直于阀体进、出口轴线作升降运动。

- The types of swing check valve include H44F46 and H74F46 full lined single disc swing series and H76F46 double disc swing series which are all rotated, opened and closed around the axes of the outside of the seat to prevent the medium back.The characteristic of H44F46 and H74F46 check valve is that the shaft and disc are whole and the shaft is all lined with FEP that wedged in the special groove between body and bonnet with flexible open-close and reliable sealing. In addition, the characteristic of H72F46 and H76F46 check valve is that the body, disc and reposition spring are all lined corrosion resistance fluoroplastic, reasonable designed spring make the disc generate sufficient sealing pressure at low pressure area to ensure the sealing performance.
- Lift standing check valve: the main types are: H40F46,H42F46 and H72F46 lift standing check valve, among that the H40F46 is a new type, the disc is semi-ball form and other common characteristic is the disc lined fluoroplastic moves up-down along the axis of the access of valve.
- The main type of lifting check valve is the full lined H41F46 lifting check valve, of which the characteristic is that the fluoroplastic lined disc is vertical to the axis of the entrance to do up-down movement.

执行标准 Executive standard

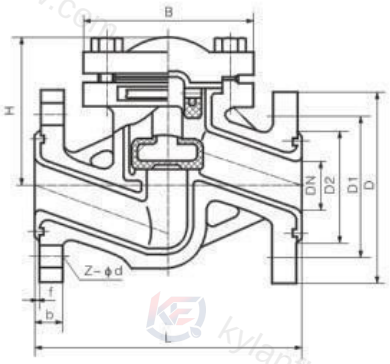
设计与制造 Design and manufacture	GB 12239
结构长度 Face to face	GB/T12221
法兰尺寸 Flange dimension	JB 78(或按合同要求)Or accoring to contract
压力试验 Pressure test	GB/T 13927
标志 Symbol	GB 12220
供货 Supply	GB/T 12252

主要零部件材料表 Main parts material specifications

序号 No.	零件名称 Parts name	灰铸铁 Grey cast iron	碳钢 Carbon steel	不锈钢 Stainless steel		超低碳不锈钢 Low carbon stainless steel	
		Z	C	P	R	PL	RL
1	阀体、阀盖 Body、Bonnet	HT250	WCB	CF8	CF8M	CF3	CF3M
2	衬里层/阀座 Lining/Seat	FEP(F46) PCTFE(F3) PFA(可溶性聚四氟乙烯) PO(聚烯烃)					
3	轴、阀瓣(板) Shaft、Wedge	1Cr13/35 WCB 1Cr18Ni9/CF8 00Cr17Ni14Mo2/CF3M					
4	螺栓 Bolt	35	35	1Cr17Ni2	1Cr17Ni2	1Cr18Ni9Ti	1Cr18Ni9Ti
5	螺母 Nut	45	45	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9

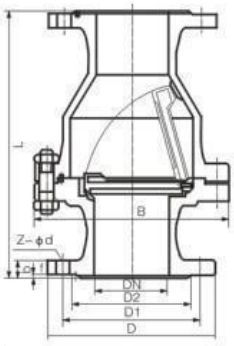
衬氟止回阀
FLUORINE LINING CHECK VALVES





H41 $\frac{F}{F_{\omega}}$ 型 法兰连接止回阀(直通升降式)
Flange type check valve(life type)





H44 $\frac{F}{F_{\omega}}$ 型止回阀(旋启式)
Check valve(swing type)

主要外形尺寸 Main Dimensions

公称通径 Nominal diameter		标准值 Standard							参考值 Reference		
DN (mm)	NPS (inch)	L	D	D1	D2	f	b	Z-φd	B	H	W(Kg)
		PN0.6(MPa)									
15	1/2	130	80	55	40	2	12	4-φ12	105	55	4
20	3/4	150	90	65	50	2	14	4-φ12	115	58	5
25	1	160	100	75	60	2	14	4-φ12	128	60	6
32	1¼	180	120	90	70	2	16	4-φ14	145	75	7
40	1½	200	130	100	80	3	16	4-φ14	160	82	8
50	2	230	140	110	90	3	16	4-φ14	178	95	10
65	2½	290	160	130	110	3	16	4-φ14	205	105	20
80	3	310	185	150	125	3	18	4-φ18	230	120	25
100	4	350	205	170	145	3	18	4-φ18	255	135	30
125	5	400	235	200	175	3	20	8-φ18	305	158	50
150	6	480	260	225	200	3	20	8-φ18	345	180	65
200	8	495	315	280	255	3	22	8-φ18	415	215	137
250	10	622	370	335	310	3	24	12-φ18	490	240	150
300	12	698	435	395	362	4	24	12-φ23	540	265	185
350	14	787	485	445	412	4	26	12-φ23	585	300	215
400	16	914	535	495	462	4	28	16-φ23	635	360	244
450	18	978	590	550	518	4	28	16-φ23	680	385	276
500	20	978	640	600	568	4	30	16-φ23	740	415	315

衬氟止回阀
FLUORINE LINING CHECK VALVES

主要外形尺寸 Main Dimensions

公称通径 Nominal diameter		标准值 Standard							参考值 Reference		
DN (mm)	NPS (inch)	L	D	D1	D2	f	b	Z-φd	B	H	W(Kg)
		PN1.0(MPa)									
15	1/2	130	95	65	45	2	14	4-φ14	105	55	5
20	3/4	150	105	75	55	2	16	4-φ14	115	58	7
25	1	160	115	85	65	2	16	4-φ14	128	60	9
32	11/4	180	135	100	78	2	18	4-φ18	145	75	11
40	11/2	200	145	110	85	3	18	4-φ18	160	82	13.5
50	2	230	160	125	100	3	20	4-φ18	178	95	18
65	21/2	290	180	145	120	3	20	4-φ18	205	105	22
80	3	310	195	160	135	3	22	4/8-φ18	230	120	28
100	4	350	215	180	155	3	22	8-φ18	255	135	34
125	5	400	245	210	185	3	24	8-φ18	305	158	58
150	6	480	280	240	210	3	24	8-φ23	345	180	72
200	8	495	335	295	265	3	26	8-φ23	415	215	150
250	10	622	390	350	320	3	28	12-φ23	490	240	165
300	12	698	440	400	368	4	28	12-φ23	540	265	190
350	14	787	500	460	428	4	30	16-φ23	585	300	225
400	16	914	565	515	482	4	32	16-φ25	635	360	254
450	18	978	615	565	532	4	32	20-φ25	680	385	285
500	20	978	670	620	585	4	34	20-φ25	740	415	333

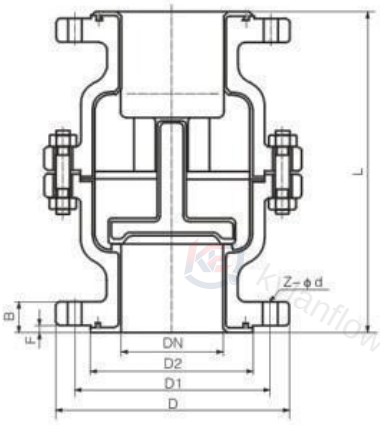
主要外形尺寸 Main Dimensions

公称通径 Nominal diameter		标准值 Standard							参考值 Reference		
DN (mm)	NPS (inch)	L	D	D1	D2	f	b	Z-φd	B	H	W(Kg)
		PN1.6(MPa)									
15	1/2	130	95	65	45	2	14	4-φ14	110	55	6
20	3/4	150	105	75	55	2	16	4-φ14	120	58	7.8
25	1	160	115	85	65	2	16	4-φ14	135	60	10
32	11/4	180	135	100	78	2	18	4-φ18	150	75	12.5
40	11/2	200	145	110	85	3	18	4-φ18	165	82	14.5
50	2	230	160	125	100	3	20	4-φ18	185	95	19.5
65	21/2	290	180	145	120	3	20	4-φ18	210	105	25.5
80	3	310	195	160	135	3	22	8-φ18	235	120	30
100	4	350	215	180	155	3	24	8-φ18	260	135	36
125	5	400	245	210	185	3	26	8-φ18	310	158	62
150	6	480	280	240	210	3	28	8-φ23	350	180	78
200	8	495	335	295	265	3	30	12-φ23	420	215	156
250	10	622	405	355	320	3	32	12-φ25	505	240	172
300	12	698	460	410	375	4	34	12-φ25	560	265	240
350	14	787	520	470	435	4	38	16-φ25	605	300	208
400	16	914	580	525	485	4	40	16-φ30	650	350	265

*法兰尺寸PN1.0MPa、DN80螺栓孔数量JB78时Z=4，其它标准时Z=8。
When flange to PN1.0MPa、DN80, Jb78, screw hole Z=4, to other parameter Z=8.

衬氟止回阀
FLUORINE LINING CHECK VALVES





H42 $\frac{F}{F_{46}}$ 型 止回阀 (升降立式)
Type check valve(Lift type)

执行标准 Executive standard

设计与制造 Design and manufacture	GB 12235
结构长度 Face to face	企业标准 Enterprise standard
法兰尺寸 Flange dimension	JB 78/JB79(或按合同要求) Or accoring to contract
压力试验 Pressure test	GB/T 13927
标志 Symbol	GB 12220
供货 Supply	GB/T 12252

主要外形尺寸 Main Dimensions

公称通径 Nominal diameter		标准值 Standard							参考值 Reference
DN (mm)	NPS (inch)	L	D	D1	D2	f	b	Z-φd	W(Kg)
		PN0.6(MPa)							
15	1/2	135	80	55	40	2	12	4-φ12	2.5
20	3/4	145	90	65	50	2	14	4-φ12	3.5
25	1	155	100	75	60	2	14	4-φ12	4
32	11/4	170	120	90	70	2	16	4-φ14	5
40	11/2	183	130	100	80	3	16	4-φ14	6
50	2	185	140	110	90	3	16	4-φ14	8
65	21/2	196	160	130	110	3	16	4-φ14	10
80	3	212	185	150	125	3	18	4-φ18	13
100	4	275	205	170	145	3	18	4-φ18	25
150	6	405	260	225	200	3	20	8-φ23	46
200	8	510	315	280	255	3	22	8-φ23	100
250	10	622	370	335	310	3	24	12-φ23	155
300	12	698	435	395	362	4	24	12-φ23	180
350	14	787	485	445	412	4	26	12-φ23	220
400	16	914	535	495	462	4	28	16-φ23	275
450	18	978	590	550	518	4	28	16-φ23	300
500	20	978	640	600	568	4	30	16-φ23	392

衬氟止回阀

FLUORINE LINING CHECK VALVES

主要外形尺寸 Main Dimensions

公称通径 Nominal diameter		标准值 Standard							参考值 Reference
DN (mm)	NPS (inch)	L	D	D1	D2	f	b	Z-φd	W(Kg)
		PN1.0(MPa)							
15	1/2	135	95	65	45	2	14	4-φ14	2.5
20	3/4	145	105	75	55	2	16	4-φ14	3.5
25	1	155	115	85	65	2	16	4-φ14	4
32	11/4	170	135	100	78	2	18	4-φ18	5
40	11/2	183	145	110	85	3	18	4-φ18	6
50	2	185	160	125	100	3	20	4-φ18	8
65	21/2	196	180	145	120	3	20	4-φ18	10
80	3	212	195	160	135	3	22	4/8-φ18	13
100	4	275	215	180	155	3	22	8-φ18	25
150	6	405	280	240	210	3	24	8-φ23	46
200	8	510	335	295	265	3	26	8-φ23	100
250	10	622	390	350	320	3	28	12-φ23	155
300	12	698	440	400	368	4	28	12-φ23	180
350	14	787	500	460	428	4	30	16-φ23	220
400	16	914	565	515	482	4	32	16-φ25	275
450	18	978	615	565	532	4	32	20-φ25	300
500	20	978	670	620	585	4	34	20-φ25	392
		PN1.6(MPa)							
15	1/2	135	95	65	45	2	14	4-φ14	2.5
20	3/4	145	105	75	55	2	16	4-φ14	3.5
25	1	155	115	85	65	2	16	4-φ14	4
32	11/4	170	135	100	78	2	18	4-φ18	5
40	11/2	183	145	110	85	3	18	4-φ18	6
50	2	185	160	125	100	3	20	4-φ18	8
65	21/2	196	180	145	120	3	20	4-φ18	10
80	3	212	195	160	135	3	22	4-φ18	13.5
100	4	275	215	180	155	3	24	8-φ18	28.5
150	6	405	280	240	210	3	28	8-φ18	48
200	8	510	335	295	265	3	30	8-φ23	105
250	10	622	405	355	320	3	32	12-φ23	165
300	12	698	460	410	375	4	34	12-φ25	195
350	14	787	520	470	435	4	38	12-φ25	238
400	16	914	580	525	485	4	40	16-φ30	295
		PN2.5(MPa)							
15	1/2	135	95	65	45	2	16	4-φ14	3
20	3/4	145	105	75	55	2	16	4-φ14	4
25	1	155	115	85	65	2	16	4-φ14	5
32	11/4	170	135	100	78	2	18	4-φ18	8.5
40	11/2	183	145	110	85	3	18	4-φ18	9.8
50	2	185	160	125	100	3	20	4-φ18	17

*法兰尺寸PN1.0MPa、DN80螺栓孔数量JB78时Z=4，其它标准时Z=8。
When flange PN1.0MPa、DN80, Jb78, screw hole Z=4, to other parameter Z=8.

衬氟球阀

FLUORINE LINING BALL VALVE

产品概述 Product overview

衬氟球阀和旋塞阀属同一类阀门，不同的是球阀是用带圆形通孔的球体作启闭件，球体随阀杆绕阀体中心线旋转以实现阀门开启和关闭的目的。

球阀基本系列为Q41F46型，可分为对分(二片)式和三片式两种结构型式，除具有一般球阀所具有的流体阻力小，启闭速度快、结构简单外，还有以下优点：

Fluorine Lining Ball Valve are the same kind as swing valves produced by my company, but the ball valves adopt the ball with round hole asopenclose device, the ball rotates around the center line together with the stem to open and close the valves.

The ball valve is Q41F46 type, which can be classified into distributed(two-piece) and three-piece type. The ball valve not only has the advantages of small flow resistance, quick open-close and simple structure, but also has the follow advantages:

产品特点 Product Features

- 采用FEP衬里层的球阀，具有极高的化学稳定性，可以适用除“熔融碱金属和元素氟”以外其它任何强腐蚀性介质；
- 采用全通径、浮动球结构，阀门可在整个压力范围内进行无泄漏关闭，更便于管路系统的通球扫线和管路维护；
- 启闭件球体与阀杆铸（锻）为一体，杜绝了由于压力变化引起阀杆冲出承压件内的可能性，从根本上保证了工程的使用安全性；
- 结构紧凑合理，阀体内腔空间最小，减小了介质滞留，另外，特殊的模压工艺，使密封面致密度良好，加之人字环形PTFE填料组合，使阀门达到零泄漏；
- 两片式、三片式结构可适应各种不同要求的管路系统和工况条件，其中三片球阀允许主阀体与两侧阀体分离，可实现在线快速更换、维修。
- The FEP liner ball valve with high chemical stability and can be applied to any other serious erosive medium except the fuse alkali metal and felement.
- It adopts full diameters, drift ball structure to make the valve zero leakage close, and it is convenient for maintenance.
- The combination of the open-close ball and pole of valve cast get rid of the possibility that the stem pushed out of the pressure parts by changing pressure to ensure the safety.
- The compact and the reasonable structure and the smallest inside cavity room reduced the stay of the medium. In addition, the special mould pressure craft makes the sealing surface perfect, and with the packing stuff PTFE to make the valve zero leakage.
- Two and three pieces structure are applied to various kinds of pipe systems and work conditions that the three pieces ball valve allows the valve body to seperate the two sides to realize the rapid exchange and maintenance.

法兰尺寸 Flange dimensions

设计与制造 Design and manufacture	GB 12237
结构长度 Face to face	ANSI B16.10 (NPS≥2) DIN 3202/S7 S12
法兰尺寸 Flange dimension	JB 1686(DN32~150)
压力试验 Pressure test	JB78/JB79(或按合同标准)(Or according to thecontract standard)
标志 Symbol	GB 12220
供货 Supply	GB/T 12252

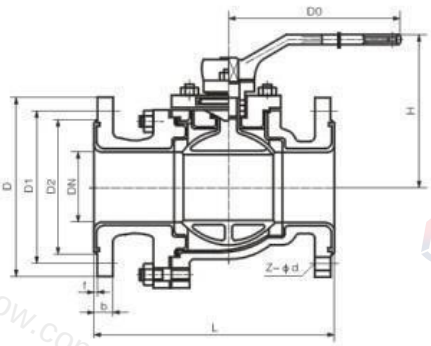
主要零部件材料表 Main parts material specifications

序号 No.	零件名称 Parts name	灰铸铁 Grey cast iron	碳钢 Carbon steel	不锈钢 Stainless steel		超低碳不锈钢 Low carbon stainless steel	
		Z	C	P	R	PL	RL
1	阀体、阀盖 Body, Bonnet	HT250	WCB	CF8	CF8M	CF3	CF3M
2	球 Ball	WCB	WCB	CF8	CF8M	CF3	CF3M
3	衬里层/阀座 Lining/Seat	PTFE(F_{46}) PCTFE(F_3) FEP(F_4) PFA(可溶性聚四氟乙烯) PO(聚烯烃)					
4	填料压盖 Packing gland	HT250	WCB	CF8	CF8M	CF3	CF3M
5	填料 Packing	PTFE(F_4)聚四氟乙烯					
6	螺栓 Bolt	35	35	1Cr17Ni2	1Cr17Ni2	1Cr18Ni9	1Cr18Ni9
7	螺母 Nut	45	45	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9
8	手柄 Lever	WCC	WCC	WCC	WCC	WCC	WCC

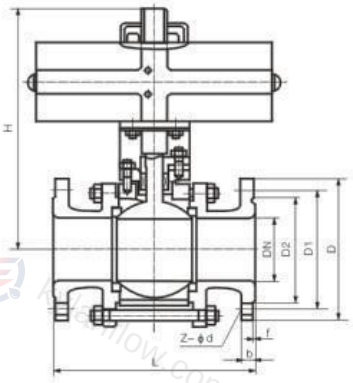
衬氟球阀

FLUORINE LINING BALL VALVE





Q41F,型法兰连接手动球阀（直通二片式）
Flange type lever operated ball valve
(straight 2PC type)



Q641F, 型法兰连接气动球阀（直通三片式）
Flange type pnematic operated ball valve
(through way 3PC type)

主要外形尺寸 Main Dimensions

公称通径 Nominal diameter		标准值 Standard							参考值 Reference		
DN (mm)	NPS (inch)	L	D	D1	D2	f	b	Z-φd	Do	H	W(Kg)
		PN1.0MPa									
15	1/2	140	95	65	45	2	14	4-φ14	120	80	2.5
20	3/4	140	105	75	55	2	16	4-φ14	140	90	3
25	1	150	115	85	65	2	16	4-φ14	160	100	4.5
32	11/4	165	135	100	78	2	18	4-φ18	160	110	5.7
40	11/2	180	145	110	85	3	18	4-φ18	200	120	7
50	2	200	160	125	100	3	20	4-φ18	250	135	9.5
65	21/2	220	180	145	120	3	20	4-φ18	300	145	15
80	3	250	195	160	135	3	22	4/8-φ18	350	185	19
100	4	280	215	180	155	3	22	8-φ18	240	195	33
125	5	320	245	210	185	3	24	8-φ18	500	210	58
150	6	360	280	240	210	3	24	8-φ23	200*	450	93
200	8	457	335	295	265	3	26	8-φ23	240*	490	155
250	10	533	390	350	320	3	28	12-φ23	240*	550	210
300	12	610	440	400	368	4	28	12-φ23	320*	600	220
350	14	686	500	460	428	4	30	16-φ23	320*	675	245
400	16	762	565	515	782	4	32	16-φ25	360*	780	260
		PN1.6MPa									
15	1/2	140	95	65	45	2	14	4-φ14	120	80	2.5
20	3/4	140	105	75	55	2	16	4-φ14	140	90	3
25	1	150	115	85	65	2	16	4-φ14	160	100	4.5
32	11/4	165	135	100	78	2	18	4-φ18	160	110	5.7
40	11/2	180	145	110	85	3	18	4-φ18	200	120	7
50	2	200	160	125	100	3	20	4-φ18	250	135	9.5
65	21/2	220	180	145	120	3	20	4-φ18	300	145	15
80	3	250	195	160	135	3	22	8-φ18	350	185	19
100	4	280	215	180	155	3	24	8-φ18	240	195	33
125	5	320	245	210	185	3	26	8-φ18	500	210	58
150	6	360	280	240	210	3	28	8-φ23	200*	450	93
200	8	457	335	295	265	3	30	12-φ23	240*	490	155
250	10	533	405	355	320	3	32	12-φ25	240*	550	210
300	12	610	460	410	275	4	34	12-φ25	320*	600	220
350	14	686	520	470	435	4	38	16-φ25	320*	675	245
400	16	762	580	525	485	4	40	16-φ30	360*	780	260

*法兰尺寸PN1.0MPa、DN80螺栓孔数量JB78时Z=4，其它标准时Z=8。
When flange to PN 1.0MPa、DN80, Jb78, screw hole Z=4, to other parameter Z=8.

衬氟蝶阀

FLUORINE LINING BUTTERFLY VALVES

产品概述 Product overview

衬氟蝶阀是用随阀杆一起转动的蝶板作为启闭件，用以实现阀门的开启、关闭与调节。蝶阀在管路中除了起截断和截流用外，近年来已经把密封性能作为评价的主要指标，受到市场青睐。另外，蝶阀还有体积小重量轻、结构简单等优点，与同参数闸阀比较，平均减轻重量达30~50%，蝶板旋转90°既可实现启、闭过程，又由于转轴两侧蝶板受介质作用力近似相等，转矩相反，因此启闭力矩较小。

Fluorine Lining Wafer Type Butterfly Valves my company produced uses the disc rotated together with stem as the open and close device to open, close and adjust medium. Apart from the role of shut off the stream, the sealing performance of butterfly valve is very important, and it is favored by customers. In addition, the volume and the weight of butterfly valve are small and light, compare with various gate valves, the average weight is reduced 30%~50%, the butterfly pole will open and close when it rotates 900. The open-close torque will be small because the bearing force of both sides of the butterfly plate is equal and the rotated torque is opposite.

产品特点 Product Features

- 中线蝶阀为整个蝶板与阀座在360° 圆周内同心(中线)，具有双向密封功能，压力、流量可自由调节；
- 四级加载弹性密封，绝对保证了阀门内、外的零泄漏；
  A、轴心、蝶板圆周连接处的特殊过渡曲线与阀座的合理过盈；
  B、轴头端面采用弹性O型圈和轴肩处刚性垫圈、弹性橡胶垫组合；
  C、轴的径向采用O型圈与金属垫的组合；
  D、阀座镶在有弹性条的阀体槽内；
- 采用可调弹性弹子定位，定位准确，结构简单。

- Middle line butterfly valve possesses dual director sealing function and pressure and flow adjustment with the disc and seat which are of the same center of the circle.
- The class 4 load flexible sealing assures the zero leakage of the inside and outside of the valve.
  A, The special transition curve between axis and disc and reasonable interference.
  B, The surface of axon adopts O circle and strong washer and flexible rubber combination.
  C, The radial axis adopts O type and metal washer combination.
  D, The seat is placed in the slot of flexible valve body.
- It adopts adjustable elastic billiard location, which is precise location with simple structure.

执行标准 Executive standard

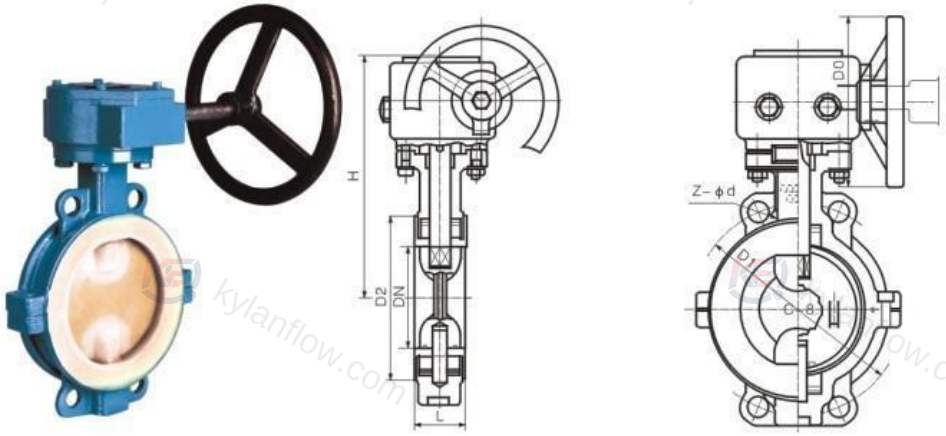
设计与制造 Design and manufacture	GB 12238(中线)(Middle line)
结构长度 Face to face	GB 12221(短系列)Short pattern series
法兰尺寸 Flange dimension	JB78/JB79(或按合同要求)Or according to contract
压力试验 Pressure test	GB/T 13927
标志 Symbol	GB 12220
供货 Supply	GB/T 12252

主要零部件材料表 Main parts material specifications

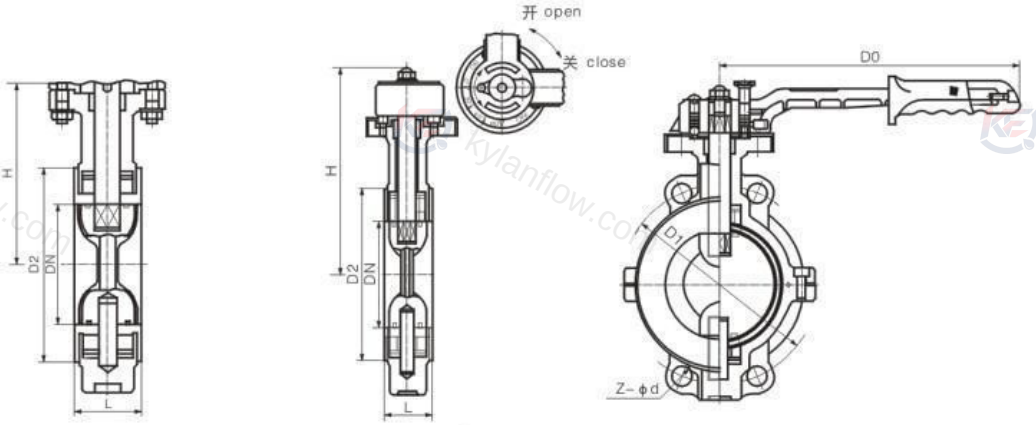
序号 No.	零件名称 Parts name	灰铸铁 Grey cast iron	碳钢 Carbon steel	不锈钢 Stainless steel		超低碳不锈钢 Low carbon stainless steel	
		Z	C	P	R	PL	RL
1	上、下阀体 Body	HT250	WCB	CF8	CF8M	CF3	CF3M
2	蝶板 Disc	WCB	35(锻)	CF8	CF8M	CF3	CF3M
3	蝶板轴 Stem	1Cr13	2Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti	00Cr18Ni10	00Cr17Ni14Mo2
4	衬里层/阀座 Lining/Seat	PTFE(F_4) PCTFE(F_3) FEP(F_{46}) PFA(可溶F_4) PO(聚四烃)					
5	O型圈 O-ring	FPM (氟橡胶 Viton)		FPM (氟橡胶 Viton)			
6	弹性条(垫) Elastic strip	S R (硅橡胶 Silicon rubber)		S R (硅橡胶 Silicon rubber)			
7	定位座 Location seat	0Cr18Ni9	0Cr18Ni9	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti	00Cr18Ni10	00Cr17Ni14Mo2
8	螺栓 Bolt	35	35	1Cr17Ni2	1Cr17Ni2	1Cr18Ni9Ti	1Cr18Ni9Ti
9	螺母 Nut	45	45	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9
10	手柄 Lever	ZL 101(铸造铝合金 Foundry aluminium alloy)					

衬氟对夹式蝶阀

FLUORINE LINING WAFER TYPE BUTTERFLY VALVES



D 371 $F_4^{F_{46}}$ 型 对夹式蜗轮传动蝶阀(中线)
Wafer type worm wheel operated butterfly valve (middle line)



D71 $F_4^{F_{46}}$ 型对夹式手动蝶阀(中线)
Wafer type lever operated butterfly valve(middle line)

基本型号 Basic type

- 公称压力：PN0.6~1.6(MPa)
- 公称通径：DN40~1200(mm)
- Nominal pressure: PN0.6~1.6(MPa)
- Nominal diameter: DN40~1200(mm)

手柄旋动 Lever operated	D71F/P (半衬) (Semi lined)	蜗轮传动 Worm wheel operated	D371F/P(半衬)(Semi lined)
	D71F$_3$ (全衬里) (Fully lined)		D371F$_3$(全衬里)(Fully lined)
	D71F$_4$ (全衬里)(Fully lined)		D371F$_4$(全衬里)(Fully lined)
	D71F$_{46}$(全衬里)(Fully lined)		D371F$_{46}$(全衬里)(Fully lined)
气动 Pneumatic	D671F/P(半衬)(Semi lined)	电动 Electric	D971F/P(半衬)(Semi lined)
	D671F$_3$(全衬里)(Fully lined)		D971F$_3$(全衬里)(Fully lined)
	D671F$_4$(全衬里)(Fully lined)		D971F$_4$(全衬里)(Fully lined)
	D671F$_{46}$(全衬里)(Fully lined)		D971F$_{46}$(全衬里)(Fully lined)

衬氟对夹式蝶阀

FLUORINE LINING WAFER TYPE BUTTERFLY VALVES

主要外形尺寸 Main Dimensions

公称通径 Nominal diameter		标准值 Standard							参考值 Reference		
DN (mm)	NPS (inch)	L	D	D1	D2	f	b	Z-φd	DO	H	W(Kg)
		PN0.6(MPa)									
50	2	43	140	110	90	3	16	4-φ14	200	145	3.5
65	21/2	46	160	130	110	3	16	4-φ14	250	155	4.5
80	3	46	185	150	125	3	18	4-φ18	250	165	6
100	4	52	205	170	145	3	18	4-φ18	250	180	7.5
125	5	56	235	200	175	3	20	8-φ18	300	203	11
150	6	56	260	225	200	3	20	8-φ18	300	225	16
200	8	60	315	280	255	3	22	8-φ18	200*	275	48
250	10	68	370	335	310	3	24	12-φ18	200*	315	60
300	12	78	435	395	362	4	24	12-φ23	240*	348	75
350	14	78	485	445	412	4	26	12-φ23	240*	415	82
400	16	102	535	495	462	4	28	16-φ23	280*	460	123
450	18	114	590	550	518	4	28	16-φ23	280*	500	150
500	20	127	640	600	568	4	30	16-φ23	320*	530	180
600	24	154	755	705	670	5	30	20-φ25	320*	610	225
700	28	165	860	810	775	5	32	24-φ25	360*	675	315
800	32	190	975	920	880	5	34	24-φ30	360*	805	385
		PN1.0(MPa)									
50	2	43	160	125	100	3	20	4-φ18	200	145	4
65	21/2	46	180	145	120	3	20	4-φ18	250	155	6
80	3	46	195	160	135	3	22	4/8-φ18	250	165	8
100	4	52	215	180	155	3	22	8-φ18	300	180	12
125	5	56	245	210	185	3	24	8-φ18	300	203	18
150	6	56	280	240	210	3	24	8-φ23	200*	225	28
200	8	60	335	295	265	3	26	8-φ23	200*	275	56
250	10	68	390	350	320	3	28	12-φ23	240*	315	72
300	12	78	440	400	368	4	28	12-φ23	240*	348	88
350	14	78	500	460	428	4	30	16-φ23	240*	415	120
400	16	102	565	515	482	4	32	16-φ25	280*	460	145
450	18	114	615	565	532	4	32	20-φ25	280*	500	165
500	20	127	670	620	585	4	34	20-φ25	320*	530	195
600	24	154	780	725	685	5	36	20-φ30	320*	610	268
700	28	165	895	840	800	5	40	24-φ30	360*	675	320
800	32	190	1010	950	905	5	44	24-φ34	360*	805	395
		PN1.6(MPa)									
50	2	43	160	125	100	3	20	4-φ18	200	150	5
65	21/2	46	180	145	120	3	20	4-φ18	250	160	7
80	3	46	195	160	135	3	22	8-φ18	250	170	10
100	4	52	215	180	155	3	24	8-φ18	300	185	14
125	5	56	245	210	185	3	26	8-φ18	300	210	22
150	6	56	280	240	210	3	28	8-φ18	200*	230	32
200	8	60	335	295	265	3	30	12-φ23	240*	285	66
250	10	68	405	355	320	3	32	12-φ25	240*	325	80
300	12	78	460	410	375	4	34	12-φ25	280*	360	94
350	14	78	520	470	435	4	38	16-φ25	280*	430	125
400	16	102	580	525	485	4	40	16-φ30	320*	475	150
450	18	114	640	585	545	4	44	20-φ30	320*	525	172
500	20	127	705	650	608	4	46	20-φ34	320*	565	225
600	24	154	840	770	718	5	54	20-φ41	360*	620	290
700	28	165	910	840	788	5	54	24-φ41	360*	686	330
800	32	190	1020	950	898	5	54	24-φ41	380*	815	425

*法兰尺寸D，D1，D2，Z-φd，f，b数值是与蝶阀连接的标准法兰尺寸，简图中尺寸代号仅是其中一部分。
*法兰尺寸PN1.0MPa、DN80螺孔数量JB78时Z=4，其它标准时Z=8。
Flange size: D, D1, D2, Z-φd, f, b* are standard parameters. When flange to PN1.0 MPa、DN80、JB78 screw hole Z=4,to other parameter Z=8

衬氟法兰式蝶阀

FLUORINE LINING FLANGE TYPE BUTTERFLY VALVES

基本型号 Basic type

- 公称压力：PN0.6~2.5(MPa) · Nominal pressure: PN0.6~2.5(MPa)
- 公称通径：DN40~1200(mm) · Nominal pressure: DN40~1200(mm)

手 动 Manually	D41F/P (半衬) (Semi lined)	蜗轮传动 Worm wheel operated	D341F/P(半衬) (Semi lined)
	D41F$_{3}$(全衬里) (Fully lined)		D341F$_{3}$(全衬里) (Fully lined)
	D41F$_{46}$(全衬里) (Fully lined)		D341F$_{46}$(全衬里) (Fully lined)
气 动 Pneumatic	D641F/P(半衬) (Semi lined)	电 动 Electric	D941F/P(半衬) (Semi lined)
	D641F$_{3}$ (全衬里) (Fully lined)		D941F$_{3}$(全衬里) (Fully lined)
	D641F$_{46}$ (全衬里) (Fully lined)		D941F$_{46}$(全衬里) (Fully lined)

执行标准 Executive standard

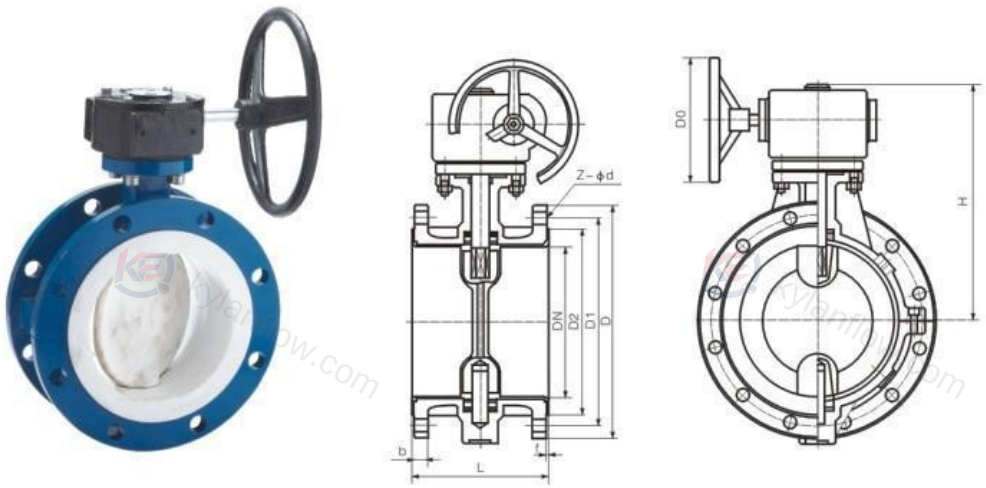
设计与制造 Design and manufacture	GB 12238(中线) (Middle line)
结构长度 Face to face	GB 12221(短-长系列) Short-long pattern
法兰尺寸 Flange dimension	JB78/JB79(或按合同要求) Or according to contract
压力试验 Pressure test	GB/T 13927
标志 Symbol	GB 12220
供货 Supply	GB/T 12252

主要零部件材料表 Main parts material specifications

序号 No.	零件名称 Parts name	灰铸铁 Grey cast iron	碳钢 Carbon steel	不锈钢 Stainless steel		超低碳不锈钢 Low carbon stainless steel	
		Z	C	P	R	PL	RL
1	上、下阀体 Body	HT250	WCB	CF8	CF8M	CF3	CF3M
2	蝶板轴/销 Stem/Pin	1Cr13	2Cr13	1Cr18Ni19Ti	1Cr18Ni12Mo2Ti	00Cr18Ni10	00Cr17Ni14Mo2
3	衬里层/阀座 Lining/Seat	PTFE (F_4) PCTFE(F_3) FEP (F_{46}) PFA (可溶性聚四氟乙烯) PO (聚烯烃)					
4	蝶板/填料压盖 Disc/Packing gland	WCB	WCB	CF 8	CF8M	CF3	CF3M
5	支架 Yoke	WCB(碳钢 Cast steel)		CF8(不锈钢 Stainless steel)			
6	填料 Packing	PTFE(F_4)		PTFE(F_4)		PTFE(F_4)	
7	螺栓 Bolt	35	35	1Cr17Ni2	1Cr17Ni2	1Cr18Ni9Ti	1Cr18Ni9Ti
8	螺母 Nut	45	45	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9

衬氟法兰式蝶阀

FLUORINE LINING FLANGE TYPE BUTTERFLY VALVES



D 341 $\frac{F}{F_{46}}$ 型法兰连接蜗轮传动蝶阀(中线)
Flange type worm wheel operated butterfly valve (middle line)

主要外形尺寸 Main Dimensions

公称通径 Nominal diameter		标准值 Standard							参考值 Reference		
DN (mm)	NPS (inch)	L	D	D1	D2	f	b	Z-φd	DO	H	W(Kg)
		PN0.6(MPa)									
40	11/2	106	130	100	80	3	16	4-φ14	160	140	10
50	2	108	140	110	90	3	16	4-φ14	200	160	12
65	21/2	112	160	130	110	3	16	4-φ14	250	160	13
80	3	114	185	150	125	3	18	4-φ18	250	170	14
100	4	127	205	170	145	3	18	4-φ18	300	180	16
125	5	140	235	200	175	3	20	8-φ18	300	275	18
150	6	140	260	225	200	3	20	8-φ18	200*	295	38
200	8	152	315	280	255	3	22	8-φ18	200*	320	74
250	10	250	370	335	310	3	24	12-φ18	240*	385	105
300	12	270	435	395	362	4	24	12-φ23	240*	390	142
350	14	290	485	445	412	4	26	12-φ23	240*	460	179
400	16	310	535	495	462	4	28	16-φ23	280*	510	220
450	18	330	590	550	518	4	28	16-φ23	280*	540	268
500	20	350	640	600	568	4	30	16-φ23	320*	570	378
600	24	390	755	705	670	5	30	20-φ25	320*	660	608
700	28	430	860	810	775	5	32	24-φ25	360*	710	1050
800	32	470	975	920	880	5	34	24-φ30	360*	780	1320
900	36	510	1075	1020	980	5	36	24-φ30	380*	885	1795
1000	40	550	1175	1120	1080	5	36	28-φ30	400*	990	1900
1200	48	630	1400	1340	1295	5	40	32-φ34	400*	1170	2110

衬氟法兰式蝶阀

FLUORINE LINING FLANGE TYPE BUTTERFLY VALVES

主要外形尺寸 Main Dimensions

公称通径 Nominal diameter		标准值 Standard							参考值 Reference		
DN (mm)	NPS (inch)	L	D	D1	D2	f	b	Z-φd	DO	H	W(Kg)
		PN1.0 (MPa)									
40	11/2	106	145	110	85	3	18	4-φ18	160	140	10
50	2	108	160	125	100	3	20	4-φ18	200	160	12
65	21/2	112	180	145	120	3	20	4-φ18	250	165	13
80	3	114	195	160	135	3	22	4/8-φ18	250	170	14
100	4	127	215	180	155	3	22	8-φ18	300	180	16
125	5	140	245	210	185	3	24	8-φ18	300	275	18
150	6	140	280	240	210	3	24	8-φ23	200*	295	38
200	8	152	335	295	265	3	26	8-φ23	200*	320	74
250	10	250	390	350	320	3	28	12-φ23	240*	385	105
300	12	270	440	400	368	4	28	12-φ23	240*	390	142
350	14	290	500	460	428	4	30	16-φ23	240*	460	179
400	16	310	565	515	482	4	32	16-φ25	280*	510	220
450	18	330	615	565	532	4	32	20-φ25	280*	540	268
500	20	350	670	620	585	4	34	20-φ25	320*	570	378
600	24	390	780	725	685	5	36	20-φ30	320*	660	608
700	28	430	895	840	800	5	40	24-φ30	360*	710	1050
800	32	470	1010	950	905	5	44	24-φ34	360*	780	1320
900	36	510	1110	1050	1005	5	46	28-φ34	380*	885	1795
1000	40	550	1220	1160	1115	5	50	28-φ34	400*	990	1900
		PN1.6 (MPa)									
40	11/2	106	145	110	85	3	18	4-φ18	160	140	10
50	2	108	160	125	100	3	20	4-φ18	200	160	12
65	21/2	112	180	145	120	3	20	4-φ18	250	165	13
80	3	114	195	160	135	3	22	8-φ18	260	170	14
100	4	127	215	180	155	3	24	8-φ18	300	180	16
125	5	140	245	210	185	3	26	8-φ18	300	275	18
150	6	140	280	240	210	3	28	8-φ23	200*	295	42
200	8	152	335	295	265	3	30	12-φ23	200*	320	78
250	10	250	405	355	320	3	32	12-φ25	240*	385	120
300	12	270	460	410	375	4	34	12-φ25	240*	390	145
350	14	290	520	470	435	4	38	16-φ25	240*	460	202
400	16	310	580	525	485	4	40	16-φ30	280*	510	235
450	18	330	640	585	545	4	44	20-φ30	280*	540	368
500	20	350	705	650	608	4	46	20-φ34	320*	570	420
600	24	390	840	770	718	5	54	20-φ41	320*	660	750
700	28	430	910	840	788	5	54	24-φ41	360*	710	1028
800	32	470	1020	950	898	5	54	24-φ41	380*	780	1690
900	36	510	1120	1050	998	5	54	28-φ41	400*	885	1815
1000	40	550	1255	1170	1110	5	60	28-φ48	500*	990	2050

*法兰尺寸PN1.0MPa，DN80螺栓孔数量JB78时Z=4，其它标准时Z=8。
When flange to PN1.0MPa、DN80,JB78,screw hole Z=4,to other parameter Z=8

衬氟隔膜阀

FLUORINE LINING DIAPHRAGM VALVE

产品概述 Product overview

衬氟隔膜阀是一种特殊形式的、具有截断功能的阀门，其启闭件由钢质阀瓣与软质料(橡胶和氟塑料复合)制成的隔膜组成，并将阀体内腔与阀盖内腔隔开，以达到截断管内介质之目的。

Fluorine Lining Diaphragm valve wiht shut-off function.Its open-close device is made of disc steel and soft material,and the cavity of body and bonnet are separated to cut-off the medium.

产品特点 Product Features

基本系列为全衬里G41F46、EG41F46型堰式和G45F46型直流式，其特点如下：

- 复合隔膜将阀体下部内腔与阀盖内腔隔开，并与之形成直流通道，使隔膜上部的阀杆、阀瓣等内件与介质完全隔离，省去填料密封结构，介质的内漏和外漏可同时避免；
- 利用FEP（Teflon）氟塑料与合成橡胶复合而成的隔膜和带有Teflon氟塑料衬里层的阀门，可适于除“熔融碱金属、元素氟”外各种强腐蚀性能介质。
- 做为执行元件的膜片，由于频繁的启闭，易产生疲劳断裂，应视工况、介质和特性，进行定期更换。
- 氟塑料的防腐性能及推荐使用温度见“阀门及管路附件用氟塑料衬里性能表”。

Basic series are G41F46 weir valve and G45F46 DC diaphragm valve, the characteristics are as follows:

- Complex septum separates the lumen under part and cavity of cover, it will separate the stem, disc and medium, the packing stuff is omitted, the inner leakage and outer leakage are avoided simultaneously.
- The diaphragm made by the fluoroplastic lined FEP and symthetic rubber and the valve with fluoroplastic liner are applied to all kinds of serious erosive medium except"fuse alkali metal and Felement".
- The diaphragm regarded as executing element is easy cracked because of frequent start and close, so that is must be changed regularly.
- The erosion-proof performance of fluoroplastic lined and usage temperature recommended are placed in "the fluoroplastic lined used by the valve and pipe accessory".

执行标准 Executive standard

设计与制造 Design and manufacture	GB 12239
结构长度 Face to face	JB 1688
法兰尺寸 Flange dimension	JB 78(或按合同要求)Or accrding to contract
压力试验 Pressure test	GB/T 13927
标志 Symbol	GB 12220
供货 Supply	GB/T 12252

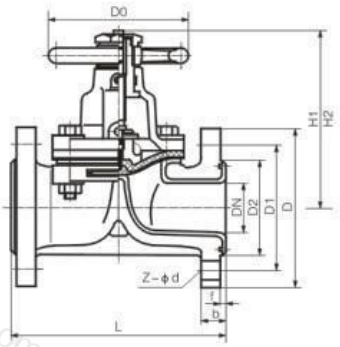
主要零部件材料表 Main parts material specifications

序号 No.	零件名称 Parts name	灰铸铁 Grey cast iron	碳钢 Carbon steel	不锈钢 Stainless steel		超低碳不锈钢 Low carbon stainless steel	
		Z	C	P	R	PL	RL
1	阀体、阀盖、阀瓣 Body, Bonnet, Disc	HT250	WCB	CF8	CF8M	CF3	CF3M
2	阀杆 Stem	35	1Cr13	1Cr18Ni9	1Cr18Ni12Mo12Ti	00Cr18Ni10	00Cr17Ni14Mo2
3	衬里层 Lining	FEP(F_{46}) PFA(可溶性聚四氟乙烯) PCTFE(F_3) PO(聚烯烃)					
4	隔膜 Diaphram	FEP(F_{46})/CR(氯丁橡胶) PFA(可溶性聚四氟乙烯)/FPDM(乙丙橡胶)					
5	阀杆螺母 Stem nuts	ZCuAl10Fe3 ZCuAl10Fe3					
6	螺栓 Bolt	35	35CrMoA	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2
7	螺母 Nut	45	45	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9
8	手轮 Handwheel	HT200	HT200	WCC	WCC	WCC	WCC

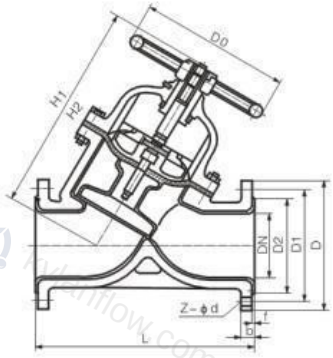
衬氟隔膜阀

FLUORINE LINING DIAPHRAGM VALVE



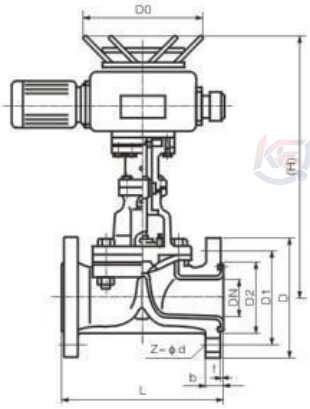


G41 F_3 F_{46} 型手动隔膜阀(堰式)
H.O.Diaphragm Valve(weir type)

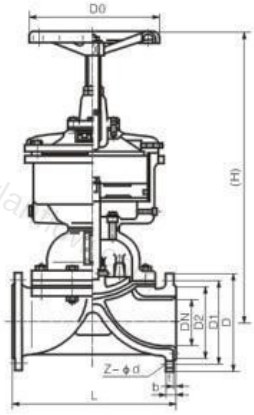


G45 F_3 F_{46} 型手动隔膜阀(直流式)
H.O.Diaphragm valve(Y type)

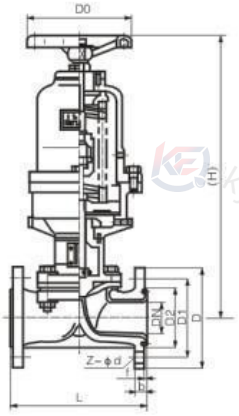




G941 F_3 F_{46} 型电动隔膜阀(堰式)
Pneumatic diaphragm
(weir type)



G641 F_3 F_{46} 型气动隔膜阀(往复式)
Pneumatic diaphram
(reciproating type)



G6B41 F_3 F_{46} 型气动隔膜阀(常闭式)
Pneumatic diaphragm
(close type)

基本型号(全衬里) Basic type(Fully lined)

手动 Manually	G41F_3(堰式) (Weir type)	气动 Pneumatic	G641F_3(往复式) (Reciproating type)
	G41F_{46}(堰式) (Weir type)		G641F_{46}(往复式) (Reciproating type)
	G45F_3(直流式) (Y type)		G6B41F_3(常闭式) (Close type)
	G45F_{46}(直流式) (Y type)		G6B41F_{46}(常闭式) (Close type)
电动 Electric	G9B41F_3(防爆型) (Explosion-proof type)	动 Electric	G941F_3(普通型) (General type)
	G9B41F_{46}(防爆型) (Explosion-proof type)		G941F_{46}(普通型) (General type)

衬氟隔膜阀

FLUORINE LINING DIAPHRAGM VALVE

主要外形尺寸 Main Dimensions

公称通径 Nominal diameter		标准值 Standard							参考值 Reference			
DN (mm)	NPS (inch)	L	D	D1	D2	f	b	Z-φd	DO	H1	H2	W(Kg)
		PN1.0(MPa)/PN0.6(MPa)										
15	1/2	125	95	65	45	2	14	4-φ14	100	105	110	3.5
20	3/4	135	105	75	55	2	16	4-φ14	100	115	125	4
25	1	145	115	85	65	2	16	4-φ14	120	120	135	5.5
32	11/4	(160)	135	100	78	2	18	4-φ18	120	125	150	8
40	11/2	180	145	110	85	3	18	4-φ18	140	135	175	11
50	2	210	160	125	100	3	20	4-φ18	140	155	195	14
65	21/2	250	180	145	120	3	20	4-φ18	200	170	200	23
80	3	300	195	160	135	3	22	4/8-φ18	200	200	255	29
100	4	350	215	180	155	3	22	8-φ18	280	270	325	46
125	5	400	245	210	185	3	24	8-φ18	320	335	405	70
150	6	460	280	240	210	3	24	8-φ23	320	370	450	95
200	8	570	335	295	265	3	26	8-φ23	400	480	600	170
250	10	680	390	350	320	3	28	12-φ23	500	545	620	270
300	12	790	440	400	368	4	28	12-φ23	500	585	680	320

主要外形尺寸 Main Dimensions

公称通径 Nominal diameter		标准值 Standard							参考值 Reference			
DN (mm)	NPS (inch)	L	D	D1	D2	f	b	Z-φd	DO	H1	H2	W(Kg)
		PN1.6(MPa)										
15	1/2	125	95	65	45	2	14	4-φ14	120	110	115	4
20	3/4	135	105	75	55	2	16	4-φ14	120	120	130	5
25	1	145	115	85	65	2	16	4-φ14	140	125	140	6
32	11/4	(160)	135	100	78	2	18	4-φ18	140	130	155	9
40	11/2	180	145	110	85	3	18	4-φ18	160	140	180	12
50	2	210	160	125	100	3	20	4-φ18	160	160	200	15
65	21/2	250	180	145	120	3	20	4-φ18	200	175	205	24
80	3	300	195	160	135	3	22	4-φ18	200	205	260	30
100	4	350	215	180	155	3	24	8-φ18	280	275	330	48
125	5	400	245	210	185	3	26	8-φ18	320	340	410	75
150	6	460	280	240	210	3	28	8-φ23	320	375	460	105
200	8	570	335	295	265	3	30	8-φ23	400	485	605	182
250	10	680	405	355	320	3	32	12-φ25	500	550	625	295
300	12	790	460	410	375	3	34	12-φ25	500	590	685	345

*排除合同另有规定，隔膜阀在PN0.6MPa时，其法兰尺寸按PN1.0MPa制造。
*法兰尺寸PN1.0MPa、DN80螺栓孔数量JB78时Z=4，其它标准时Z=8。
Generally, when the pressure requires PN0.6Mpa, the flange size is per to PN1.0MPa.
When flange to PN1.0MPa、DN80, Jb78, screw hole Z=4, to other parameter Z=8

衬胶隔膜阀

RUBBER LINED DIAPHRAGM VALVE

用途 Application

衬胶隔膜阀 于控制一般腐蚀性和强腐蚀性介质，阀体内腔表面覆有可供选择的各种橡胶和氟塑料，适用于不同工作温度和流体管路，具有强度高、耐腐蚀性能好的特点。

Rubber Lined Diaphragm Valve is specially used to control the common and strong corrosive medium, with body inner surface lined with different rubber and fluorine plastic which can be selected to suit with different working temperatures and fluid pipelines. It has the feature of high strength and good performance of corrosion resistance.

结构特点 Structure features

隔膜阀是一种特殊形式的截断阀：

- 弹性密封的开闭件，确保没有内漏；
- 流线型的流道，使得压力损失小；
- 没有填料函，因此没有外漏；
- 阀体与盖被中间隔膜隔开，使得隔膜上方的阀盖，阀杆等零件不受介质侵蚀；
- 隔膜可更换，维护费用低；
- 衬里材料的多样性，可适用于各种介质，并具有强度高、耐腐蚀性能好的特点。

The diaphragm valve is an especial break valve:

- The elastic sealed open and close element can avoid the inner leak.
- The straight through type fluid line can keep the small loss of pressure.
- It doesn't have the packing box, so it doesn't leak.
- The body and bonnet are separated by the middle diaphragm in order that the bonnet and stem over the diaphragm aren't corroded By the medium.
- The diaphragm is changeable and the expense of maintenance is low.
- The various lining materials can be suitable for all kinds of medium, with features of high strength and good performance of corrosion Resistance.

技术规范 Technical specification

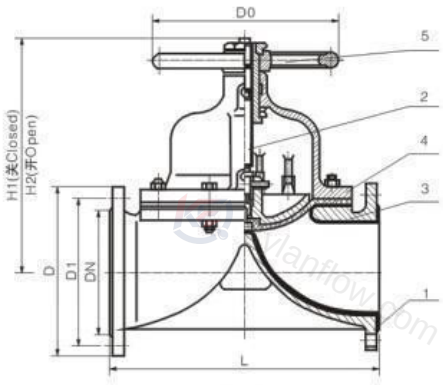
设计规范 Design spec	结构长度 Face to face	连接法兰 Flange ends	试验与检验 Test and inspection	产品标识 Marking	供货规范 Supply Spec
GB/T 12239	GB/T 12221/JB 1688	JB/T 78, GB 4216	GB/T 13927	GB/T 12220	JB/T 7928

阀体衬里材料及使用范围 Material and scope of application of body lining

材料 Material	代号 Code	适用温度 Suitable temperature	适用介质 Applicable medium
硬橡胶 Hard rubber, ebonite	NR	NR-10 ℃~85 ℃	除强氧化剂(如硝酸、铬酸、浓硫酸及过氧化氢等和有机溶剂)外的氢氰酸、50%氟硅酸、盐酸、30%硫酸、50%氢氟酸、85%磷酸、碱、盐类、镀金属溶液、氢氧化钠、氢氧化钾、中性盐水溶液、10%次氯酸钠、湿氯气、氨水、大部分醇类，有机酸及醛类等。 Hydrocyanic acid,50%fluorosilisic acid, hydrochloric acid, 30% sulfuric acid,50% hydro-fluoric acid, 85% phosphoric acid, alkali, salt, metal-plated solution, sodium hydroxide, potassium hydroxide, neutral salt solution, 10% sodium hypochlorite, humid chlorine, ammonia, alcohol, organic acid and aldehyde except for the strong oxident (such as nitricacid, chormic acid, strong sulfuric acid and perhydrol and organic solvent).
天然胶(Q级) Natural rubber	NR	≤85 ℃	净化水、无机盐、释放无机酸等。 Purified water, mineral salt and diluent mineral acid etc.
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.

衬胶隔膜阀
RUBBER LINED DIAPHRAGM VALVE





DBG41J/F46

主要零部件材料 Main part material

序号 NO	零件名称 Name of parts	灰铸铁 Gray cast iron	铸钢 Cast steel	不锈耐酸铸钢 Stainless acid resistant cast steel		超低碳不锈耐酸铸钢 Stainless acid resistant cast steel	
		Z	C	P	R	PL	RL
1	阀体/阀盖 Body/bonnet	HT250	WCB	CF8	CF8M	CF3	CF3M
2	阀瓣/阀杆 Disc/Stem	HT250	1Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti	00Cr18Ni10	00Cr17Ni14Mo2
3	衬里/阀座 Lining/Seat	天然胶(Natural rubber)、丁基胶(Isobutylene-isoprene rubber)、PTFE(F4)、FEP(F46)					
4	隔膜 Diaphragm	橡胶、氟塑料 Rubber, fluoro plastic					
5	手轮 Handwheel	HT250					

主要尺寸及重量 Main dimensions and weight

公称压力 Nominal Pressure	工作压力 Working Pressure	通径 Diameter mm	通径 Diameter inch	L	D	D1	N-φd	F	H1	H2	D0	重量 Weight kg/kilos
1.0	1.0	15	1/2	125	95	65	4-14	2	105	116	100	4.5
		20	3/4	135	105	75	4-14	2	117	128	100	4.5
		25	1	145	115	85	4-14	2	121	135	120	5
		32	1 1/4	160	140	100	4-18	2	132	150	120	7
		40	1 1/2	180	150	110	4-18	3	156	176	140	9
		50	2	210	165	125	4-18	3	169	195	140	12.5
		65	2 1/2	250	185	145	4-18	3	200	236	200	19
		80	3	300	200	160	4-18	3	216	256	200	25.5
		100	4	350	220	180	8-18	3	270	322	280	40
		125	5	400	250	210	8-18	3	338	406	320	62
		150	6	460	285	240	8-22	3	384	464	320	80.5
0.6	0.4	200	8	570	340	295	8-22	4	518	638	400	146
		250	10	680	395	350	12-22	4	598	734	500	240
		300	12	790	445	400	12-22	4	698	778	500	334
		350	14	900	505	460	16-22	4	723	883	500	371
0.25		400	16	1000	565	515	16-25	4	868	1078	640	584