FVFT TECHNOLOGY CO., LIMITED

Lined Valve Expert

FVFT TECHNOLOGY CO., LIMITED

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FVFT BRAND, RELIABLE QUALITY FOR YOU
CE&ISO 9001:2015 CERTIFIED ACQUIRED
15 YEARS FLUID SOLUTION EXPERIENCES
EXPORTING TO OVER 40 COUNTRIES
EXCELLENT VALUE-ADDED SERVICE.

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We focus on Details
We Make Different
FVFT Brand, that can be trust.

FVFT Technology Founded in year 2010, we specialize in Manufacturing Various Lined Valves&Fittings, Including PTFE/PFA/FEP Lined Valve and Ceramic Lined Valve, as well as standard and customized fittings. The products are widely used in modern anti-corrosion engineering fields such as Lithium Battery, petroleum, chemical industry, pharmacy, printing and dyeing, electrical engineering, ship building, metallurgy, military industry, semiconductor chemistry, electronic phosphoric acid, Etc.

Our Principle: Pragmatic, Creative and Excellent.

FVFT Brand that you can trust.

FVFT Product Line:

Lined Valves (Lined Butterfly Valve, Lined Ball Valve, Lined Diaphragm Valve Etc.)

Lined Pipe&Fittings (Y-Type Strainer, Sight Glass, Elbow, Tee, Reducer, Expansion Joint, Pipe Etc.)

Ceramic Lined Valve (Ceramic Lined Butterfly Valve, Ceramic Lined Ball Valve, Ceramic Lined Diaphragm Valve Etc.)

Ceramic Lined Fitting (Y-Type Strainer, Sight Glass, Elbow, Tee, Reducer, Expansion Joint, Pipe Etc.)

Plastic Valve&Fitting (Plastic Globe Valve, Plastic Check Valve, Plastic Y-Type Strainer Etc.)

FVFT TECHNOLOGY CO., LIMITED

Contents

Processing






Stockage






Inspection




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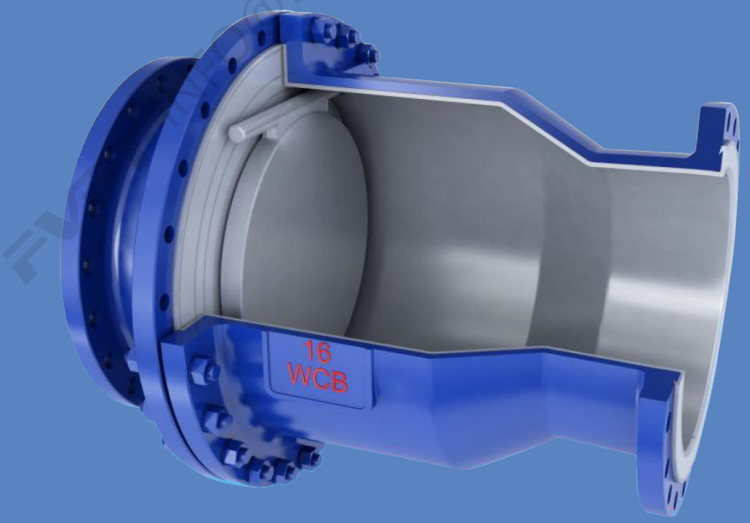
Lined Check Valve

Lined Check Valve

A check valve is an automatic valve that automatically opens and closes the valve clapper depending on the flow of the medium itself, and is used to prevent the reverse flow of the medium.

series:
1.Swing Check Valve
2.Through-Way Lift Check Valve
3.Vertical Lift Check Valve
4.Wafer Check Valve



Lined Through-Way Lift Check Valve

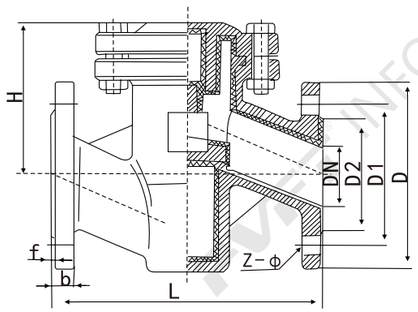
Technical Specification

Ddesign & Manufacture Standard	HG/T 3704
Face to face Standard	Manufacturer's standard
Flange Standard	EN1092-1/ASME B16.5
Inspection and Test Standard	API598

Materials of Main Parts

No.	Part Name	Material List				
1	Body/Bonnet	WCB	CF8	CF8M	CF3	CF3M
2	Lining	FEP PFA PTFE				
3	Disc	WCB CF8 CF8M CF3 CF3M				

DIMENSIONS PN16



DN	L	D	D1	D2	f	b	Z-Φd
15	130	95	65	43	3	16	4-Φ4
20	150	105	75	50	3	18	4-Φ4
25	160	115	85	60	3	18	4-Φ14
32	1 80	140	1 00	68	3	18	4-Φ18
40	200	150	110	80	3	18	4-Φ18
50	230	165	125	100	3	18	4-Φ18
65	290	185	145	115	3.5	18	4-Φ18/8-Φ18
80	310	200	160	130	3.5	20	8-Φ18
100	350	220	180	150	4	20	8-Φ18
125	400	250	210	180	4	22	8-Φ18
150	480	285	240	210	4	22	8-Φ22
200	600	340	295	260	5	24	12-Φ22
250	730	405	355	31 9	5	26	12-Φ26
300	850	460	410	370	6	28	12-Φ26

Lined Vertical Lift Check Valve

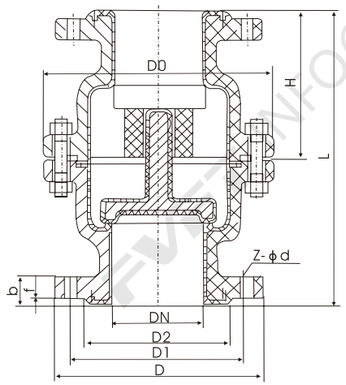
Technical Specification

Ddesign & Manufacture Standard	HG/T 3704
Face to face Standard	Manufacturer's Standard
Flange Standard	EN1092-1/ASME B16.5
Inspection and Test Standard	API 598

Materials of Main Parts

No.	Part Name	Material List				
1	Body/Bonnet	WCB	CF8	CF8M	CF3	CF3M
2	Lining	FEP PFA PTFE				
3	Disc	WCB CF8 CF8M CF3 CF3M				

DIMENSIONS PN16



DN	L	D	D1	D2	f	b	Z-Φd
15	80	95	65	43	3	16	4-Φ14
20	90	105	75	50	3	18	4-Φ14
25	100	115	85	60	3	18	4-Φ14
32	110	140	100	68	3	18	4-Φ18
40	125	150	110	80	3	18	4-Φ18
50	140	165	125	100	3	18	4-Φ18
65	160	185	145	115	3.5	18	4-Φ18/8-Φ18
80	185	200	160	130	3.5	20	8-Φ18
100	210	220	180	150	4	20	8-Φ18
125	250	250	210	180	4	22	8-Φ18
150	300	285	240	210	5	22	8-Φ22
200	380	340	295	260	5	24	12-Φ22
250	420	405	355	319	5	26	12-Φ26
300	457	460	410	375	5	28	12-Φ26

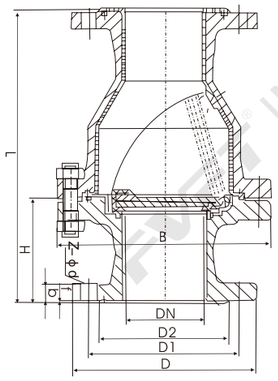
Lined Swing Check Valve

Technical Specification

Ddesign & Manufacture Standard	HG/T 3704
Face to face Standard	Manufacturer's standard
Flange Standard	EN1092-1/ASME B16.5
Inspection and Test Standard	API598

Materials of Main Parts

No.	Part Name	Material List				
1	Body/Bonnet	WCB	CF8	CF8M	CF3	CF3M
2	Lining	FEP PFA PTFE				
3	Disc	WCB CF8 CF8M CF3 CF3M				



DIMENSIONS PN16

DN	L	D	D1	D2	f	b	Z-Φd	B
25	160	115	85	58	3	18	4-Φ14	128
32	180	140	100	69	3	18	4-Φ18	140
40	200	150	110	78	3	18	4-Φ18	160
50	230	165	125	88	3	18	4-Φ18	178
65	290	185	145	108	3	18	4-Φ18/3-Φ18	205
80	310	200	160	124	3	20	8-Φ18	305
100	350	220	180	144	3.5	20	8-Φ18	255
125	400	250	210	174	3.5	22	8-Φ18	305
150	480	285	240	199	4	22	8-Φ22	345
200	500	340	295	254	4	24	12-Φ22	415
250	550	405	355	309	5	26	12-Φ26	490
300	620	460	410	363	5	28	12-Φ26	560

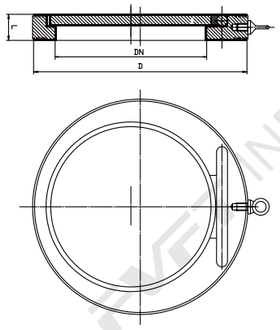
Lined Wafer Check Valve

Technical Specification

Ddesign & Manufacture Standard	HG/T 3704
Face to face Standard	Manufacturer's standard
Flange Standard	EN1092-1/ASME B16.5
Inspection and Test Standard	API598

Materials of Main Parts

No.	Part Name	Material List				
1	Body/Bonnet	WCB	CF8	CF8M	CF3	CF3M
2	Lining	FEP PFA PTFE				
3	Disc	WCB CF8 CF3 CF3M				



DIMENSIONS

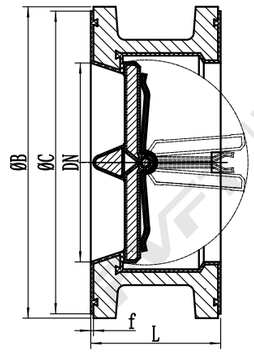
DN	L	D	f	DN
50	22	165	3	25
65	22	185	3	38
80	22	200	3	46
100	24	220	3	72
125	26	250	3	95
150	29	285	3	114
200	43	340	3	140
250	43	405	3.5	188
300	50	460	3.5	216
350	52	520	3.5	263
400	62	580	4	305
450	62	640	4	356
500	64	715	4	406
600	70	840	4	485
700	76	910	5	565
800	80	1025	5	622
900	95	1125	5	703
1000	127	1255	5	815

Lined Dual Plate Wafer Check Valve

Technical specification	
Design & Manufacture Standard	API594/API6D
Face to face Standard	ASME B16.10
Flange Standard	ASME B16.5
Inspection and Test Standard	API598
Marking	SP-25

Materials of Main Parts

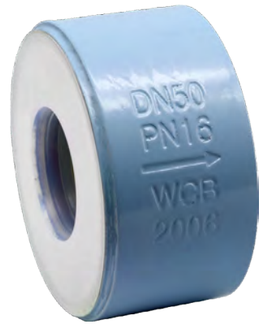
No.	Part Name	Material List				
1	Body/Bonnet	WCB	CF8	CF8M	CF3	CF3M
2	Lining	FEP PFA PTFE				
3	Disc	WCB CF8 CF3 CF3M				



DIMENSIONS

DN	L	ΦA	ΦB	ΦC	b	N-Φd	f
50	60	165	125	102	18	4-M16	3
65	66	185	145	122	18	4-M16	3
80	73	200	160	138	20	8-M16	3
100	73	220	180	158	20	8-M16	3
125	86	250	210	188	22	8-Φ18	3
150	98	285	240	212	22	8-Φ22	3
200	127	340	295	268	24	12-Φ22	3
250	146	405	350	320	26	12-Φ22	3
300	181	460	410	378	28	12-Φ26	3
350	184	520	470	438	30	16-Φ26	4
400	190	580	525	490	32	16-Φ30	4
450	203	640	585	550	40	20-Φ30	4
500	219	715	650	610	44	20-Φ33	4
600	222	840	770	725	54	20-Φ36	4

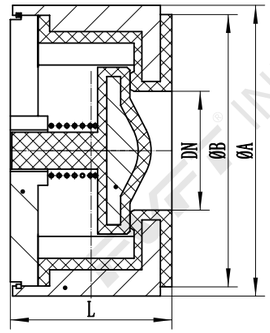
Lined Spring Loaded Wafer Check Valve



Technical specification	
Design & Manufacture Standard	HG/T 3704
Face to face Standard	Manufacturer's standard
Flange Standard	EN 1092-1/ ASME B.16.5
Inspection and Test Standard	API 598

Materials of Main Parts

No.	Part Name	Material List				
1	Body/Bonnet	WCB	CF8	CF8M	CF3	CF3M
2	Lining	FEP PFA PTFE				
3	Disc	WCB CF8 CF3 CF3M				



DIMENSIONS

DN	ΦA	ΦB	L
15	53	45	25
20	63	56	31.5
25	73	65	35.5
32	84	76	40
40	94	86	45
50	108	100	56
65	127	118	63
80	142	135	71
100	162	155	80

Fluorine Plastic Performance

Performance	Item / Unit / Code / Name		PTFE	PCTFE	PVDF	RE.	PFA	GXPO	PE	PP
			F4	F3	F2	F46	PFA	GXPO	PE	PP
Physical Performance	Specifc Gravity	g/cm³	2.1~2.2	2.1~2.2	1.76	2.1~2.2	2.1~2.2	0.92	0.92	0.92
	Water absorpion	%	0.001~0.005	≤ 0.005	0.04	≤ 0.01	≤ 0.01	0.005	0.005	0.005
	Shrinkage rate of finished product	%	1~5	1-2.5	2.0	2~5	1~5	1~2	1~2	1~2
	Embrittlement coefficient	10⁻⁵/K	10-12	4.5-7.0	8.5-15.3	8.3~10.5	8.3-12	-	-	-
	Embrittlemen temperature T1	℃	-180~-195	-180~-195	-62	-260	-180~-195	-40	-40	-20
	Hot resistance T2	℃	260	120-190	150	204	260	100	100	100
	Recommend working temperature T3	℃	≤ 180	≤ 120	≤ 100	≤ 150	≤ 200	≤ 85	≤ 85	≤ 85
Mechanical Performance	Hardness	SOSIXO	D50-65	D74-78	D80	(R45)	D50-65	D40	D40	D40
	Friction coefficient f	-	0.06	0.3~0.4	0.14~0.17	0.06~0.01	0.06~0.01	-	-	-
	Tensile strength σb	Mpa	13.7-24.5	31.3-39.2	45~48.3	20.0~24.5	14~28	≥ 10	6.9~14	7.5~14
	Bending strength σw	Mpa	10.7-137	53.9-68.6	-	-	15~28	-	-	-
	Compression strength σy	Mpa	111	80.3-50.9	68.6	-	111	-	-	-
	Impact strength σk	KJ/M²	16	12.7~16. 6	19.7	No breakage	1+	-55	45	50
	Ultimate elongation Δλ	%	250~350	30~190	30~300	250~270	300~500	480	300~600	600~700
	Breakdown voltage v	KV/mm	25~40	19.7	10.2	40	24~40	-	-	-
Processing Performance	compression molding		Good	Good	Good	Good	Good	Good	Good	Good
	Injection molding		-	Good	Good	Good	Good	Good	Good	Good
	Lamination		Good	Good	Good	Good	Good	Good	Good	Good
	Layer		Good	Good	Good	Good	Good	Good	Good	Good

Fluorine Plastic Performance

Corrossion Resistance Performance (only for Reference)	Medium	Concentration (%)	Temperature ° C	PTFE	PCTFE	PVDF	FEP	PFA	GXPO	PE	PP
	Sulfuric acid	10~98	Normal temperature ~100	A	A~B	A~B	A	A	Concentration ≤ 50%	Concentration ≤ 60%	A
	Ntric acid	5~98	Normal temperature ~100	A	A	A	A	A	Concentration ≤ 30%	Concentration ≤ 60%	A
	Hydrochloric acid	10~38	Normal temperature ~100	A	A	A	A	A	Concentration ≤ 38%	Concentration ≤ 60%	A~B
	Acetic acid	10~100	Normal temperature ~100	A	A~B	A~B	A	A	Concentration ≤ 10%	Concentration ≤ 60%	A
	Chromic acid	50~100	Normal temperature ~70	A	A~B	A~B	A	A	Concentration ≤ 30%	Concentration ≤ 20%	A
	phosphoric acic	50~85	Normal temperature ~100	A~B	D	D	A~B	A~B	Concentration ≤ 85%	Concentration ≤ 80%	A
	Trichloromethan	100	Normal temperature	C	B	B	C	C	X	X	X
	Coppersulfate	15	Normal temperature	A	C	C	A	A	Concentration ≤ 90%	Concentration ≤ 80%	A
	Diethy ether	100	Normal temperature	B	C	C	B	B	X	X	X
	Ethyl acetate	100	Normal temperature	B	A	A	B	B	X	X	X
	Petrol	100	Normal temperature	A	A~B	A~B	A	A	X	X	X
	Hydrogen peroxide	3~30	Normal temperature	A	A	A	A	A	Concentration ≤ 30%	Concentration ≤ 60%	A
	Nitrobenzene	100	Normal temperature	A	A~B	A~B	A	A	X	X	X
	Superalkali	10~50	Normal temperature ~100	A	A	A	A	A	Concentration ≤ 80%	Concentration ≤ 60%	A
	Sodium Hypochlorite	-	70	A	B	B	A	A	Concentration ≤ 80%	Concentration ≤ 60%	A~B
	Hydroxyl acid	40~99	-10~30	A~B	B	B	A~B	A~B	Concentration ≤ 80%	Concentration ≤ 60%	A~B
	Oleum	20	Normal temperature	A	B	B	A	A	X	X	X
	Acrylonitrile	-	Normal temperature	B	C	C	B	B	-	-	-
	Aniline	100	Normal temperature	B	B	B	B	B	Concentration ≤ 60%	Concentration ≤ 20%	B
	Benzene	100	Normal temperature	B	C	C	B	B	X	X	X
	Butyl acetate	100	Normal temperature	B	C	C	B	B	Concentration ≤ 60%	Concentration ≤ 20%	B
	Tetrachloromethane	Reagent grade	Normal temperature	B	C	C	B	B	X	X	X