



Lined Valve Expert



WhatsApp Code



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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.)



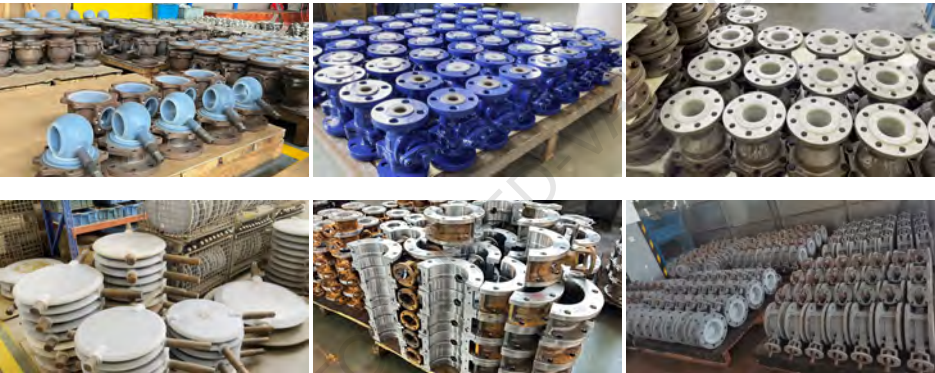
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Processing



Stockage



Inspection





Lined Wedge Gate Valve Series

The lined gate valve can only be fully opened and fully closed, and cannot be used to regulate flow. The opening and closing component is a gate, and its movement direction is perpendicular to the fluid direction. The gate has two sealing surfaces, forming a wedge shape. It has the following advantages:

1. The fluid resistance is low, and the sealing surface is less susceptible to scour and erosion by the medium.
2. Easy to open and close.
3. The flow direction of the medium is unrestricted.
4. Simple construction, short length and wide applicability.

Lined Wedge Gate Valve



Lined Wedge Gate Valve

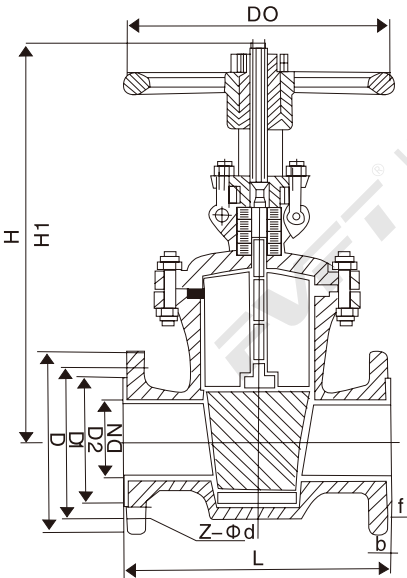


Technical Specification

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

Material List 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				
4	Bolt	35	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9
5	Nut	35	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9	0Cr18Ni9



DIMENSIONS PN16

DN	L	D	D1	D2	f	b	Z-Φd
25	160	115	85	60	3	18	4-Φ14
32	180	140	100	70	3	18	4-Φ18
40	240	150	110	80	3	18	4-Φ18
50	250	165	125	100	3	18	4-Φ18
65	265	185	145	115	3.5	18	4-Φ18/8-Φ18
80	280	200	160	130	3.5	20	8-Φ18
100	300	220	180	150	4	20	8-Φ18
125	325	250	210	180	4	22	8-Φ18
150	350	285	240	210	4	22	8-Φ22
200	400	340	295	260	5	24	12-Φ22
250	450	405	355	318	5	26	12-Φ26
300	500	460	410	375	5	28	12-Φ26
350	550	520	470	435	5	30	16-Φ26
400	600	580	525	485	5	32	16-Φ30
450	650	640	585	545	5	40	20-Φ30
500	700	715	650	608	5	44	20-Φ33

Fluorine Plastic Performance

Performance	Name		PTFE	PCTFE	PVDF	RE.	PFA	GXPO	PE	PP
	Item	Code	F4	F3	F2	F46	PFA	GXPO	PE	PP
		Unit								
Physical Performance	Specific 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 ob	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 ow	Mpa	10.7~137	53.9~68.6	-	-	15~28	-	-	-
	Compression strength oy	Mpa	111	80.3~50.9	68.6	-	111	-	-	-
	Impact strength ok	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

Corrosion 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