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

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Lined Globe Valve Series

The lined globe valve is widely used in chemical, petroleum, pharmaceutical, food, metallurgy, paper, hydropower, environment protection etc. It is a common block valve, used to connect or throttle medium. It has the advantage of compact structure, flexible on-off,strong corrosion resistance, trip shorted.

Lined Globe Valve

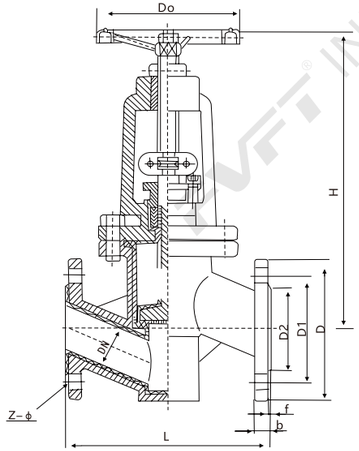
Lined Through-way Globe Valve

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
15	130	95	65	43	3	16	4-Φ14
20	150	105	75	50	3	18	4-Φ14
25	160	115	85	60	3	18	4-Φ14
32	180	140	100	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	319	5	26	12-Φ26
300	850	460	410	370	6	28	12-Φ26

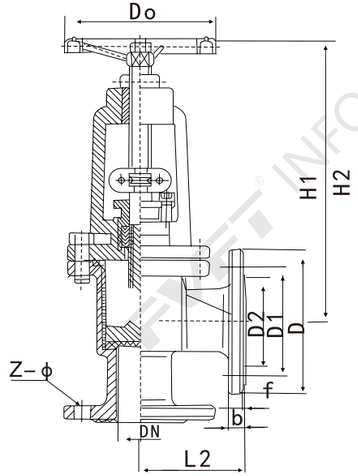
Lined Angle Type Globe Valve

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				
1	Body/Bonnet	A216 WCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2	Disc	Cr13				
3	Packing	PTFE				
4	Packing Gland	A216 WCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
5	hand wheel	A216 WCB A351 CF8				
Lining of Body and Disc		PTFE PFA FEP				



DIMENSIONS PN16

DN	L	D	D1	D2	f	b	Z-Φd
15	90	95	65	43	3	16	4-Φ14
20	95	105	75	50	3	18	4-Φ14
25	100	115	85	60	3	18	4-Φ14
32	105	140	100	68	3	18	4-Φ18
40	115	150	110	80	3	18	4-Φ18
50	125	165	125	100	3	18	4-Φ18
65	145	185	145	115	3.5	18	4-Φ18/8-Φ18
80	155	200	160	130	3.5	20	8-Φ18
100	175	220	180	150	4	20	8-Φ18
125	200	250	210	180	4	22	8-Φ18
150	225	285	240	210	4	22	8-Φ23
200	275	340	295	260	5	24	12-Φ22
250	325	405	355	319	5	26	12-Φ26
300	375	460	410	370	6	28	12-Φ26

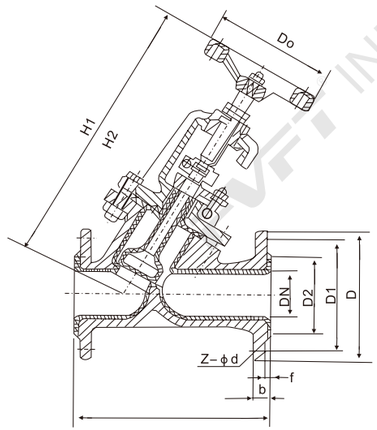
Lined Y Type Globe Valve

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

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
15	130	95	65	43	3	16	4-Φ14
20	150	105	75	50	3	18	4-Φ14
25	160	115	85	60	3	18	4-Φ14
32	180	140	100	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-Φ23
200	600	340	295	260	5	24	12-Φ18
250	730	405	355	319	5	26	12-Φ26
300	850	460	410	370	6	28	12-Φ26

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