FVFT TECHNOLOGY CO., LIMITED

Lined Valve Expert

FVFT TECHNOLOGY CO., LIMITED

Address: Binhai ETDZ, 5 Road, Longwan, Wenzhou, China. 325000
Tel: +86 577 8663 2750
Fax: +86 577 8663 2850

Mob./WhatsApp: +86 173 5771 5577

www.lined-valve.com
info@lined-valve.com

WhatsApp Code

Website Code

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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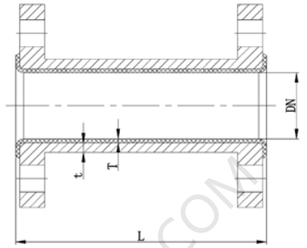
Lined Pipe Fittings

Lined Pipe

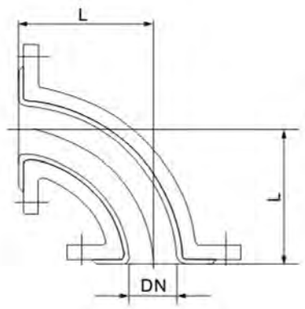


Structural characteristics:

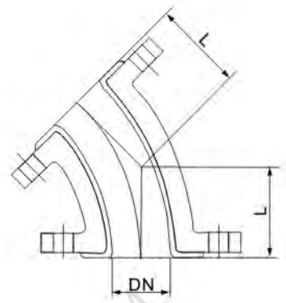
Teflon lined anti-corrosion pipeline through practical use for many years, the direct factors of its service life and stable performance of the temperature, pressure, medium. Mainly used for strong corrosion medium of industrial pipelines, as various connection modes of Shell material selection of carbon steel and stainless steel etc..

Dimensions

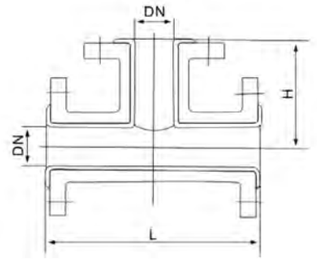
Nominal diameter		Steel pipe wall thickness t (mm)	Lining thickness T (mm)	length L(mm)	Weight/fixed length Kg/m
DN(mm)	NPS(inch)				
15	1	3	2.5	100-400	4.7
20	1 /4	3	2.5		6.1
25	1-1/2	3.5	2.5		7.5
32	2	4	4.5	150-500	10.4
40	2-1/2	4	4.5		14.7
50	3	4.5	4.5		16.7
65	4	4.5	5		21.1
80	5	4.5	5		27.4
100	6	5	5		35.4
125	8	6	6	200-8000	55
150	10	7	6		88.2
200	12	8	6		104.5



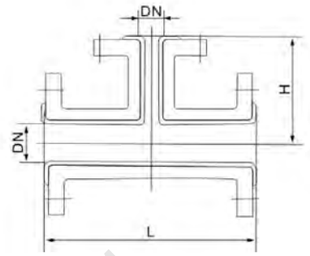
90° Elbow



45° Elbow



Equal Tee



Reducing Tee

Lined 90° Elbow Unit:mm

DN	NPS	L(mm)	WT(Kg)
25	1	89	2.7
32	1-1/4	95	3.2
40	1-1/2	102	4.3
50	2	114	5.7
65	2-1/2	127	6.8
80	3	140	7.3
100	4	165	9.1
125	5	190	12.6
150	6	203	18.5
200	8	229	26.4
250	10	279	36.2
300	12	305	46.6
350	14	356	-
400	16	406	-
450	18	457	-
500	20	508	-
600	24	610	-

Lined 45° Elbow Unit:mm

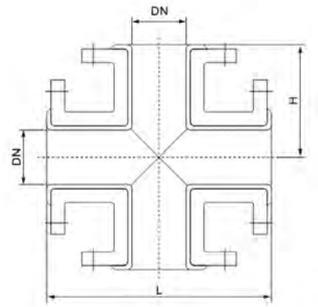
DN	NPS	L(mm)	WT(Kg)
25	1	45	2.5
32	1-1/4	51	3.4
40	1-1/2	57	3.6
50	2	63	4.3
65	2-1/2	76	6.1
80	3	76	6.37
100	4	102	8.3
125	5	114	12.5
150	6	127	17.3
200	8	140	25.8
250	10	165	41.7
300	12	190	49.1
350	14	221	-
400	16	253	-
450	18	284	-
500	20	316	-
600	24	374	-

Lined Equal / Reducing Tee Unit:mm

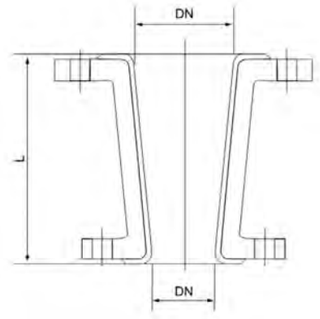
DN x DN	NPSxNPS	L(mm)	H(mm)	WT(Kg)
25x25	1x1	178	89	3.6
32x32	1-1/4x1-1/4	190	95	6.3
32x25	1-1/4x1	190	95	5.2
40x40	1-1/2x1-1/2	204	102	6.9
40x32	1-1/2x1-1/4	204	102	6.2
40x25	1-1/2x1	204	102	5.7
50x50	2x2	228	114	8.1
50x40	2x1-1/2	228	114	7.3
50x32	2x1-1/4	228	114	7.1
65x65	2-1/2x2-1/2	254	127	11.4
65x50	2-1/2x2	254	127	10.6
65x40	2-1/2x1-1/2	254	127	10.1
80x80	3x3	280	140	12.6
80x65	3x2-1/2	280	140	12.1
80x50	3x2	280	140	11.3
100x100	4x4	330	165	16.2
100x80	4x3	330	165	15.1
100x65	4x2-1/2	330	165	14.6
100x50	4x2	330	165	14.1

Lined Equal / Reducing Tee Unit:mm

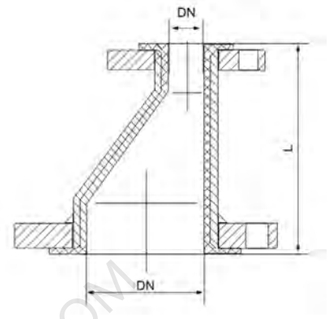
DN x DN	NPSxNPS	L(mm)	H(mm)	WT(Kg)
125x125	5x5	380	190	21 4
125x100	5x4	380	190	18.6
125x80	5X3	380	190	17 8
150x150	6x6	406	203	28.6
150x125	6x5	406	203	26.9
150x100	6x4	406	203	25.7
200x200	8x8	458	229	40.7
200x150	8x6	458	229	38.3
200x125	8x5	458	229	36.2
200x100	8x4	458	229	34.5
250x250	10x10	558	279	66.7
250x200	10X8	558	279	61.2
250x150	10x6	558	279	59.3
300x300	12x12	610	305	76.6
300x250	12x10	610	305	74.8
300x200	12x8	610	305	71.6



Cross



Concentric Reducer



Eccentric Reducer

Lined Cross Unit:mm

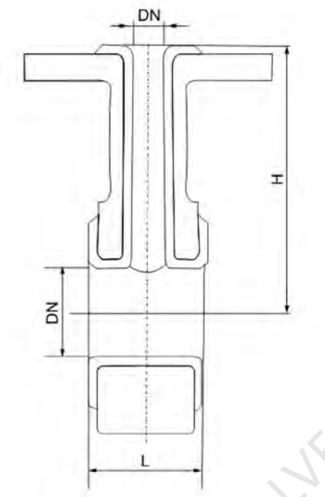
DN	NPS	L(mm)	H(mm)	WT(Kg)
25	1	178	89	57
32	1-1/4	190	95	8.6
40	1-1/2	204	102	10.4
50	2	228	114	11.3
65	2-1/2	254	127	19
80	3	280	140	25
100	4	330	165	28
125	5	380	190	40
150	6	406	203	53
200	8	458	229	81.5
250	10	558	279	131
300	12	610	305	165
350	14	700	350	-
400	16	800	400	-
450	18	900	450	-
500	20	1000	500	-
600	24	1200	600	-

Lined Concentric/Eccentric Reducer Unit:mm

DN x DN	NPSxNPS	L(mm)	WT(Kg)
32x25	1-1/4x1	120	3
40x25	1-1/2x1	120	3 2
40x32	1-1/2x 1-1/4	120	3.5
50x25	2x1	120	3.7
50x32	2x1-1/4	120	4
50x40	2x1-1/2	120	4.5
65x40	2-1/2x2-1/2	120	5
65x50	2-1/2x2	120	6
65x25	2-1/2x1	120	6.2
80x40	3x1-1/2	120	6.5
80x50	3x2	120	6.8
80x65	3x2-1/2	120	7
100x50	4x2	120	7.5
100x65	4x2-1/2	120	8

Lined Concentric/Eccentric Reducer Unit:mm

DN x DN	NPSxNPS	L(mm)	WT(Kg)
100x80	4x3	120	7.5
125x100	5x4	150	9
12Sx80	5x3	150	9.5
150x80	6x3	150	10.5
150x100	6x4	150	11.5
150x125	6x5	150	12
200X100	8x4	150	15
200x125	8x5	150	16.5
200x150	8x6	150	20
250x125	10x5	200	18
250x150	10x6	200	21
250X200	10X8	200	25
300x150	12x6	200	28
300x200	12x8	200	30.5
300x250	12x100	200	34



Instrument Tee

Lined Instrument Tee Unit:mm

DN x DN	NPSxNPS	L(mm)	H(mm)	WT(Kg)
50x25	2x1	60	127	2.5
65x25	2-1/2x1	60	127	3
80x25	3x1	60	140	4
100x25	5x1	60	165	6.5
125x25	4x1	60	190	9.5
150x25	6x1	60	203	13
150x40	6x1-1/2	75	203	16.5
200x25	8x1	60	229	21.5
200x40	8x1-1/2	75	229	23.7
250x25	10x1	60	279	32
250x40	10x1-1/2	75	279	36
300x25	12x1	60	305	42.5
300X40	12x1-1/2	75	305	50

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