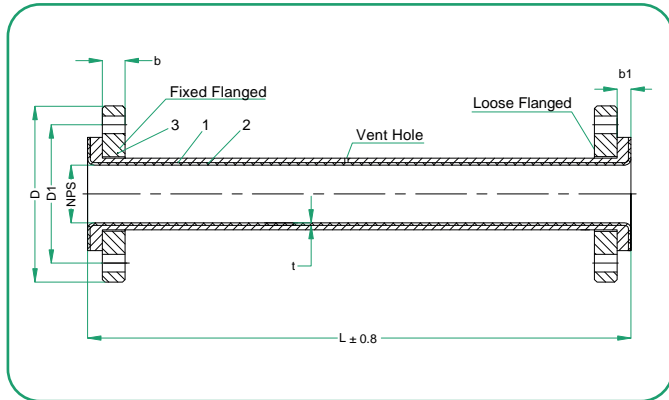


## Features / Design

### Lined Pipeline - Series PL



- TFV manufactures lined pipe and fittings by compression molding, isostatic molding, injection molding, transfer molding, hot rotomolding, ram/paste extrusion, 3D rotational molding etc. Characters as below:
- Lined pipe and fittings can be widely used in corrosive services in chemical and petrochemical plants, pharmaceutical plants, and food and beverage processing.
- Working temperature is high at the range of -29°C to 200°C; except the molten alkali metals, element fluorine and aromatic hydrocarbon, lined products can be used in any chemical medium.
- **Vacuum resistance.** In the range of -29°C to 150°C, it is applicable for vacuum condition. In chemical production, it occurs due to cooling, longitudinal emissions, or medium backflow.
- **High-pressure resistance.** Within temperature working condition, it can sustain the working pressure of 3.0 MPa.
- **Resistance to penetration.** Adapt the high-quality PTFE, to make it of high density and enough thickness after advanced lining processing, make it excellent antiosmosis.
- Design & Manufacture Standard: HG/T 2437.
- Flange Standard: ANSI B 16.5.
- Lining Thickness: 3 to 5 mm.
- Inspection and Test Standard: ASTM F1545.
- Liner Inspection: Spark test 15 Kv.
- Spark testing is an important test for lined pipe and fittings and it is subjected to an electrostatic spark test at 10-20KV to ensure the integrity of the liner.

## Material List

NO.	PART NAME	MATERIAL
1	BODY	ASTM A 106 Gr. B
2	LINER	PTFE
3	FLANGE	ASTM A105

NOTE: Material list as example, other materials and liners available.

## Dimensions (inches)

NPS (in)	L (in)	D (in)	D1 (in)	d (in)	t (in)	Z	b1 (in)	b (in)	Weight <sup>(1)</sup> (lbs)
1/2"	39.370	3.543	2.374	0.630	0.157	4	0.551	0.433	*
1"	39.370	4.331	3.126	0.630	0.157	4	0.551	0.433	9.921
1 1/2"	39.370	4.921	3.874	0.630	0.177	4	0.571	0.500	18.739
2"	39.370	5.906	4.752	0.748	0.197	4	0.669	0.563	23.149
3"	39.370	7.480	6.000	0.748	0.197	4	0.748	0.689	39.683
4"	39.370	9.055	7.500	0.748	0.197	8	0.787	0.878	46.297
6"	39.370	11.024	9.500	0.866	0.197	8	0.827	0.941	74.957
8"	39.370	13.583	11.744	0.866	0.236	8	0.945	1.063	134.482
10"	39.370	15.945	14.252	1.024	0.315	12	1.102	1.126	185.188

NOTES: Lining thickness, weight and pitch diameter may vary if accessory is for vacuum use. \* Please consult with manufacturer.

(1) The weights refer to a length of 39.370 in, consult with the supplier the weight for different lengths.



## How to Order

SERIES NUMBER	BODY	MATERIAL				ENDS	CLASS	SIZE		OPERATION
		DISC	BODY & TRIM LINER	SEAT						
PL	2	WCB	NONE	P PTFE	NONE	F Flanged RF	0 ANSI 150#	0.5	1/2"	NONE
	3	CF8M		F FEP				01	1"	
	4	CF8		F PFA				01.5	1 1/2"	
	6	DI / CI						02	2"	
								03	3"	
								04	4"	
								06	6"	
								08	8"	
					10	10"				

**Example:**

Lined Pipe, Body A 106 Gr. B + PFA Liner, Flanged RF ANSI Class 150# Size Size 6".

**PL2AF006**