

Asahi/America Product Bulletin

PVDF ProVent Exhaust Piping System

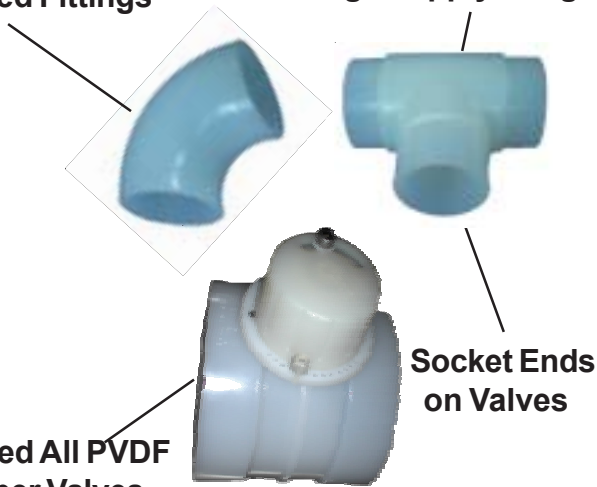


- UL 94 V-O Rating/ FM 4910 Approved Material
- Excellent Chemical Resistance
- Resistance to Solvents
- Heat Fusion Assembly, No Glues!
- Ease of Installation
- Ability to Custom Fabricate in the Field
- Available from 3" (90mm) to 16" (400mm)
- Clean material and installation



Molded Fittings

Large Supply Range



Molded All PVDF Damper Valves

Socket Ends on Valves





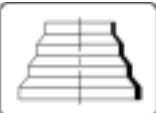
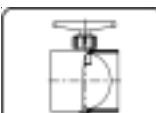
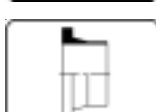






Material Property	Unit	Value
Density	g/cm ³	1.78
Tensile Stress at Yield	MPa	50
Elongation at Yield	%	9
Elongation at Break	%	80
Modulus of Elasticity	MPa	2000
Thermal Conductivity	W/mK	0.13
Thermal Expansion Coefficient	K ⁻¹ F ⁻¹	1.2 x 10 ⁻⁴ 6.7 x 10 ⁻⁵



Test	Standard	Unit	Result
FM 4910	FPI (Fire Propagation Index)	(m/s ^{1/2})/(KW/m) ^{2/3}	< 6
	SDI (Smoke Damage Index)	[(m/s ^{1/2})(g/g)(KW/m) ^{2/3}]	< 0.4
	CDI (Corrosion Damage Index)	[(m/s ^{1/2})(KW/m) ^{2/3}][A/min/g/m ³]	< 2.0
ASTM E 84 Flame/Smoke*	Flame Rating		< 25
	Smoke Rating		< 50
Limiting Oxygen Index	LOI	%	44
Flammability	ASTM D 635	-	Self Extinguishing
Flammability	UL-94	-	V-O

PVDF ProVent Exhaust Piping System

Supply Range

	3"	4"	6"	8"	10"	12"	14"	16"
	Pipe							
	90 Elbow						Fabricated	
	Tee						Fabricated	
	45 Elbow						Fabricated	
							Fabricated	
	Damper				Fabricated			
	Ansi Flange							
	Cap		Machined Cap					
	Lateral							
	Ansi Blind Flange							
	Sanitary Joint							
	Couplings							
	Slip Flanges							

Assembly Methods

Sanitary Joints



Butt Fusion



Hot Gas Welding



Support Spacing

Size	20°C	40°C	60°C
3	5.7	5.2	4.9
4	7.4	7.1	6.6
6	9	8.5	8.2
8	11	9.8	9
10	12	11	9.8
12	14	14	12
14	14	14	12
16	15	14	13

Dimensions based on Air/Gas transport only

Buckling/Vacuum Rating

Size	20°C	60°C
3	1.45	0.87
4	1.45	0.87
6	0.95	0.56
8	0.435	0.29
10	0.26	0.145
12	0.29	0.17
14	0.29	0.17
16	0.28	0.17

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