PVDF
PIPING SYSTEMS

SANGIR

Chemical Resistant

Thermal Resistant

Weather Resistant

Fungal Resistant

High Purity

UV Resistant

Low Creep

Smooth Inner Surface

Non Toxic

KYNAR® PVDF has outstanding barrier properties which allows a better protection to the environment from leakages of hazardous chemicals. Polyvinylidene fluoride or polyvinylidene difluoride is a highly non-reactive thermoplastic fluoropolmer produced by the polymerization of vinylidene difluoride. Kynar PVDF is a polymer containing carbon, hydrogen, and fluorine. Fluorine Being the bigger molecule ensures the stability of the polymer chain. PVDF is considered to be one of the most inert substance on earth.

PVDF has the advantage of absolute suppression of corrosion, even under varying process conditions, when compared to other materials. KYNAR® PVDF has the characteristic properties of high resistance to chemical attack intrinsic to all fluoropolymers based on the very high strength of the carbon-fluorine molecular bonding.

Technical Information

			PVDF Standard	PVDF Flex
Specific gravity (p)	ISO 1183	g/cm^3	1.78	1.78
Max. Permissible service temp		°C	-30 to 140	-30 to 140
Tensile strength at yield (σS)	ISO 527	Mpa	50	35
Elongation at break (εR)	ISO 527	%	≥50	≥50
Flexural strength (σB 3,5%)	ISO 178	Mpa	80	80
Modulus of elasticity (Et)	ISO 527	Mpa	2000	1000
Coef. of linear therm. expansion (α)	DIN 53752	K^{-1} X 10^{-4}	1.2	1.5
Volume resistivity (pD)	VDE 0303	Ω X cm	≥10^{13}	≥10^{13}

PIPING

PVDF Natural

Range : 20 - 315 mm
PN 10 to PN 16
Standards : ISO 10931

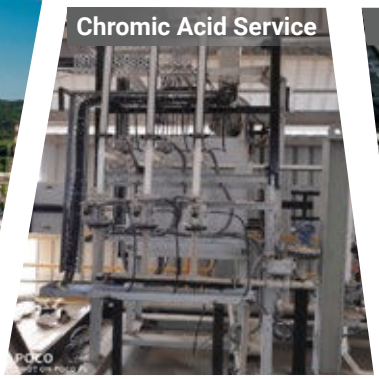
PVDF Red

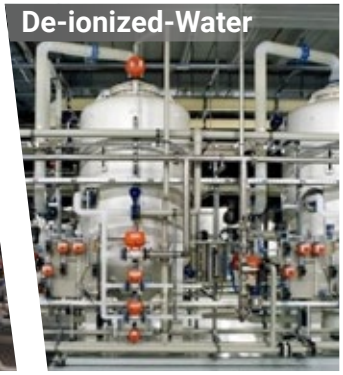
Range : 20 - 315 mm
PN 10 to PN 16
Standards : ISO 10931

Liner

Range : 20 - 200 mm
½" - 8"
Standards : Custom Size

Applications





Bromine Plants | Insecticides, Pesticides & Agrochemical Plants | Solvents | Catalysts | Chromic Acid Service in Chrome Plating | PV Crystal Cells & Semi-Conductor Industry | Edible Phosphoric Acid Plants | Food Grade Chemicals Plants | Pharmaceuticals | High-Purity Applications | DI Water Plants | Formic Acid Service | Concentrated Acids | Higher Temperature Applications | Nuclear Power & Nuclear Fuel Industry | Precious Metal Plants.

FITTINGS

Socket Fusion

Type : Moulded
Range : 20 - 110 mm
Standards : DIN16962

Butt Fusion

Type : Moulded
Range : 20 - 315 mm
Standards : DIN16962

Butt Fusion

Type : Fabricated
Range : 20 - 315 mm
Standards : DIN16962