



PVDF Piping System



characteristics

- High operating temperature
- Good mechanical properties
- High heat aging stability
- Good weldability
- High chemical resistance
- High abrasion resistance
- Low frictional resistance
- Self-extinguishing
- High resistance to permeation
- High resistance to UV and gamma radiation

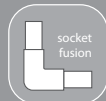
applications

- Bromine processing
- Corrosive chemicals
- Electronics manufacturing
- Food industry
- Universities
- Hospitals
- Pulp mill bleaching
- Sanitary applications
- Ultrapure water

temperature range

- -40 to 121°C (-40 to 250°F)

fusion methods



PVDF

PVDF (Polyvinylidene fluoride) is an extremely pure fluorocarbon polymer that does not contain UV stabilizers, thermo stabilizers, softeners, lubricants or flame-retardant additives. It is particularly suitable for ultra-pure water and for the transport of clear chemical liquids in the semi-conductor industry. It is recognized for its high mechanical strength over a large working temperature range, excellent resistance to most corrosive chemicals and many organic solvents, excellent abrasion resistance and excellent against the effects of UV and gamma radiation.

PVDF offers excellent fire protection without flame-retardant additives (V-O rating according to the UL-94 vertical flame test) and during combustion has only a slight amount of smoke development. PVDF is non toxic and imparts no odours or tastes into the fluid. PVDF is made from Type II resin conforming to ASTM D3222, and conforms to various regulations: FDA, NSF 61, USP Class VI; ROHS.

PVDF is also recognized by the Canadian Food Inspection Agency by "Letter of No-Objection" for use in any food applications.



PVDF

CRN
Registered
Consulting Chemist

USP
U.S. Pharmacopeia
Class VI

FDA

NSF
Certified to
NSF/ANSI 61

RoHS

PRODUCT RANGE (ODmm)¹

PIPE:	16 – 400
BUTT FUSION FITTINGS:	20 – 315
ELECTRO FUSION FITTINGS:	20 – 63
SOCKET FUSION FITTINGS:	20 – 110
ACCESSORIES (FLANGES):	20 – 315



Permissible Operating Pressures

Operating Temperature °C °F	Operating Period Years	Permissible Operating Pressure			
		SDR 33 PN 10		SDR 21 PN 16	
		psi	bar	psi	bar
20 68	50	125	8.64	198	13.6
30 86	50	113	7.76	178	12.2
40 104	50	102	7.04	162	11.1
50 122	50	88	6.08	138	9.5
60 140	50	80	5.52	126	8.6
70 158	50	70	4.88	113	7.8
80 176	50	60	4.16	95	6.6
95 203	50	34	2.32	52	3.6
110 230	50	18	1.28	29	2.0
120 248	25	15	1.04	23	1.6

¹Range varies depending on specific fitting. See price list for details.