



Offering high quality  
range of PTFE/PFA pipes  
and fittings since 1964

Mersen offers a comprehensive range of piping & accessories for handling corrosive fluids at temperatures from -50 to 220 deg C and full vacuum to very high pressure. Mersen's expertise and use of well-established manufacturing processes and materials are backed by testing and certification to the highest global standards.

## OUTSTANDING RESISTANCE TO CORROSION

- + Resistance to all corrosive fluids
- + Temperature range -50 °C to 250°C
- + Full vacuum to very high pressure
- + Very high flexibility, full resistance to thermal shock, low permeation rate
- + Available in virgin or anti-static PTFE or PFA

## PTFE/ PFA LINED PIPE & FITTINGS

- + Diameter from DN15 (1/2") to DN600 (24")
- + Dimension as per ANSI B 16.5 or DIN2848
- + Flange connection as per ANSI 150lbs, 300lbs, PN10, PN16, JIS10...etc...
- + Full vacuum available up to DN300 (12")
- + Antistatic PTFE up to DN400 (16")

## PTFE MANIFOLDS & SPECIAL ITEMS

- + Carbon and stainless steel isostatic PTFE manifolds
- + 1½" to 12", max 2 meters, flanges each end
- + PTFE thicknesses from 5 mm up to 12 mm
- + Customizable Multi-inlet/outlet
- + Lateral branch option

## PTFE DIP PIPES

- + Custom carbon steel PTFE dip pipes
- + Bent, spray and diffusion options

## PTFE/PFA JACKETED PIPING & FITTINGS

- + Available in DIN and ANSI
- + From 1" (DN25) to 12" (DN300)
- + Double jacket with 1/4" or 1/2" NPT couplings or flanged 3/4" (DN20) or 1" (DN25) nozzles

## MANUFACTURING PROCESSES

### PTFE PASTE EXTRUSION

- + Seamless line
- + Diameter up to DN1600 (64")
- + PTFE Fine powder (ASTM D 4895)
- + Thickness up to 13mm
- + Straight spools, expansion joints

### INTEGRATED ISOSTATIC MOLDING...

- + Pieces in one single part
- + Thickness up to 12 mm
- + Diameter up to DN500 (20")
- + PTFE granular powder (ASTM D 4894)
- + Tee, elbow, manifold, bespoke

### PFA INJECTION MOLDING

- + Pieces in one single part
- + PFA resin (ASTM D3307)

## TESTS AND CERTIFICATIONS

### FINAL PRODUCT

- + 100% Pressure test (hydraulic or pneumatic)
- + Spark test on pieces without vents
- + Standard piping manufactured to PED 97/23 CE - Category II

### EXTRUDED LINER

- + Mechanical properties to ASTM F 1545
- + Density : d = 2.14 to 2.20
- + Tensile strength : Ts > 21 N.m
- + Elongation at break: El > 250%

### STEEL PARTS

- + Dimensional and visual test
- + X-Ray as per code or special request
- + Each extrusion batch individually tested

### MATERIAL

- + Virgin or anti-static\* PTFE (Polytetrafluoroethylene), in accordance with ASTM D4894 & 4895 standards
- + Virgin or anti-static\* PFA (perfluoroalkoxy), according to ASTM D3307\*\* standard