

ASAHI/AMERICA



Ultra High Purity
PVDF Systems



- Ultra High Purity PVDF Piping
- Performance Fusion Technology
- PVDF Vent System
- EM Technik™ Tube Systems



The Pure Advantage in High Purity PVDF Piping Systems by Asahi/America



High Purity PVDF Systems

Purad™ Ultra High Purity

Asahi/America, The Wet Process People™

Asahi/America, Inc. has been supplying quality, high-purity, performance polymers for over thirty years. Asahi/America pioneered the use of thermoplastics for demanding wet process applications. Our dedication to excellence is evident in the product quality, expertise and total systems support.

Purad™ Ultra High Purity PVDF

Purad™ PVDF Systems is the premier product for high purity applications. Purad™ represents a cooperative effort of AGRU Kunststofftechnik GmbH of Austria and Asahi/America. Purad™ PVDF is today's leading system in terms of supply range, resin, production, supporting technologies and products. No other supplier can provide the product depth and quality of the Purad™ System.

Supply Range

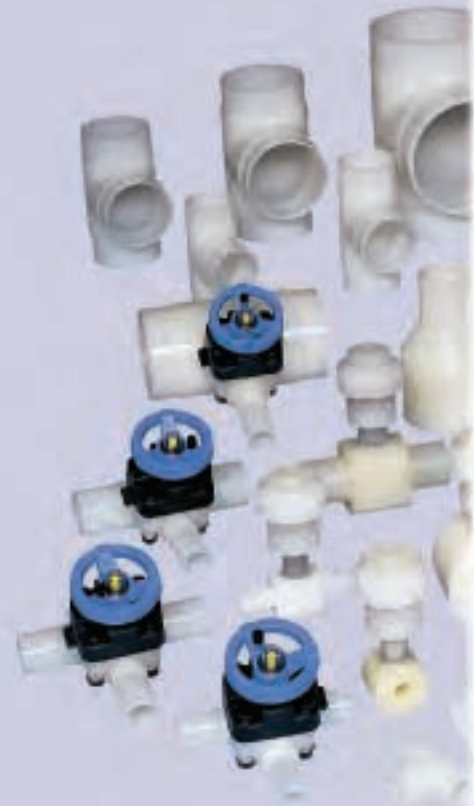
Purad™ Ultra HP PVDF Systems offer the widest selection of pipe, fittings and valves for your high purity processing requirements:

Pipe and Fittings

- 20 - 280mm (1/2" - 11") SDR21, PN16/230psi
- 90 - 315mm (3" - 12") SDR33, PN10/150psi

Valves

- T-342 Diaphragm Valves, 20mm - 110mm (1/2" - 4")
- T-343 T-Style Zero Deadleg Valves, 20 - 110mm (1/2" - 4")
- 45 different sizes and configurations



Resin

At the core of the Purad™ System is its resin. Purad™ is the only high purity system employing a single resin manufacturer for all of its pipe, fittings and valves. Utilizing only high purity grades of Solvay Polymer's SOLEF® 1000-0001 resins, Purad™ Systems provide unmatched reliability and component compatibility.

- SOLEF® resin is an ASTM D 3222 Type II resin with fewer molecular inversions (i.e. defects) than found with Type I resins. This results in mechanically stronger and more reliable systems
- Absolutely no stabilizers, additives or processing agents are used in production
- All critical handling and processing occurs in cleanroom environments
- One resin supplier, one systems supplier provides greater reliability and system assurance

PVDF : The Pure Advantage in High Purity



The Wet Process People™



Production

All of Purad's™ critical production occurs in controlled, cleanroom environments. Extrusion and molding occurs in class 100 conditions with secondary operations maintained in class 1000.

- Pipe production in class 100 cleanroom
- Fitting and Valve molding in class 100 cleanroom
- Pipe capped, PE Bagged and packed in PP tubing for greater protection and less particle generation than cardboard
- All fittings and valves individually double bagged in tear resistant PE film
- Each piece lot numbered and dated for performance traceability
- All fittings and valves post-molding rinsed in hot automated UPU system

DI Water Specification:

- UPW Temperature greater than 70 °C
- TOC less than 10 ppb, Resistivity > 18 MegOhm
- 6 basin wash process for over 60 minutes



PVDF Piping Systems

Purad Vent

Purad Vent is a PVDF ventilation system with excellent chemical resistance for critical exhaust applications such as solvent, acid and caustic fumes. The system is approved by FM 4910 for cleanroom flammability and FM 4922 for fume exhaust duct. Purad Vent replaces the costly installation of steel lined vent systems.

- Supply Range: 63mm-400mm (2" - 16")
- Standard fitting offering, damper valve, sanitary adapter
- Easy installation utilizing butt fusion or hot air welding



Fusion Technology

Purad™ Systems are joined by the latest technology in IR fusion. The SP Series of Automated IR Welders provide unmatched quality, repeatability and ease of operation.

- 20-250mm (1/2" - 10") size range
- Touch screen operation
- Computer control and monitoring of critical welding parameters of heat, time and joining force
- Electronic storage and data retrieval of welding history

Other Available Fusion Technologies:

- Contact Butt Fusion to 12"
- Socket Fusion up to 4"
- Beadless HPF Electrofusion up to 2"



Flexible Tube Systems

EM Technik tubing components provide a comprehensive offering for transitioning from Purad™ rigid pipe to flexible tube.

Materials of Construction:

PFA, PVDF, PP and PPh

Connection Principles:

Flare, Compression

Configurations:

Unions, 90's, Quick Connects,

Tee's, Threaded Adapter

Size Range:

1/8" to 1", 4mm to 32mm



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