

Saint-Gobain Performance Plastics is the world's leading producer of engineered high-performance polymer products for virtually every industry around the globe, using materials such as fluoropolymers, silicones and high-temperature thermoplastics. We team with our customers to develop products that will help them solve demanding industry challenges. Global R&D centers concentrate on leading-edge polymer engineering and manufacturing technology. Our worldwide engineering, manufacturing and customer support facilities are dedicated to meeting customers' individual requirements. Through more than 50 locations in 17 countries, we are positioned to provide innovative products and comprehensive service no matter where our customers are located.



SAINT-GOBAIN PERFORMANCE PLASTICS

7301 Orangetown Avenue
Garden Grove, CA 92841-1411
Phone: (714) 630-5818
Fax: (714) 688-2614

USA Toll Free: (800) 853-5661

www.furon-asti.com
www.plastics.saint-gobain.com

Furon is a registered trademark.
AstiPure is a trademark.
FlareGrip is a registered trademark.
Fluoroloy T is a registered trademark.

©2001 Saint-Gobain Performance Plastics Corporation
ENC 2092 2.5M 0601 STAS

Furon® Fuse-Bond & Fine Thread Flare Fittings

Our complete line of high-purity PFA weldable Fuse-Bond pipe fittings are designed to be compatible with Fusebond "schedule 40" pipe. Saint Gobain's patented system of alignment marks at every 45° maintains precise alignment of fittings during assembly and welding, are faster and easier to use, and ensure that welded assemblies are consistent and repeatable. Furon Flare Grip® II Fine Thread Flare Fittings offer a complete line of industry standard Flare Fittings. Furon Fittings are assembled and double bagged in a Class 100 Clean Room environment.



Fuse-Bond
Features/Benefits

- Alignment marks every 45°
- Compact versions available
- No O-Ring unions offer design flexibility.

Flare Grip II
Features/Benefits

- Interchangeable, compatible with industry standard flare fittings
- Available with PVDF, ETFE, or PFA nuts
- Designed to maximize system chemical delivery efficiency

Fluid Handling Innovative Products

Furon® Valve Box Enclosure

The Furon® Valve Box Enclosure is an innovative alternative to welded polypropylene enclosures. Its unique design provides an industry leading 5 PSIG pressure rating for applications requiring pressure containment, or can be easily configured for flow-through ventilation. The transparent material allows easy inspection of valves and connections, without the need to open the box. Custom configured enclosures are tailored to meet specific customer requirements.

Features/Benefits

- Transparent type II PVC material permits easy observation and monitoring of valves.
- Innovative twin-sheet thermoform design allows either flow-through ventilation or 5 PSIG pressure rating.
- Symmetrical design provides input/output connections on four sides.
- Patent-protected valve box system.
- Furon Valve Box Enclosure, in conjunction with RDV/SMDV and universal fittings, provides an integrated package for customers.

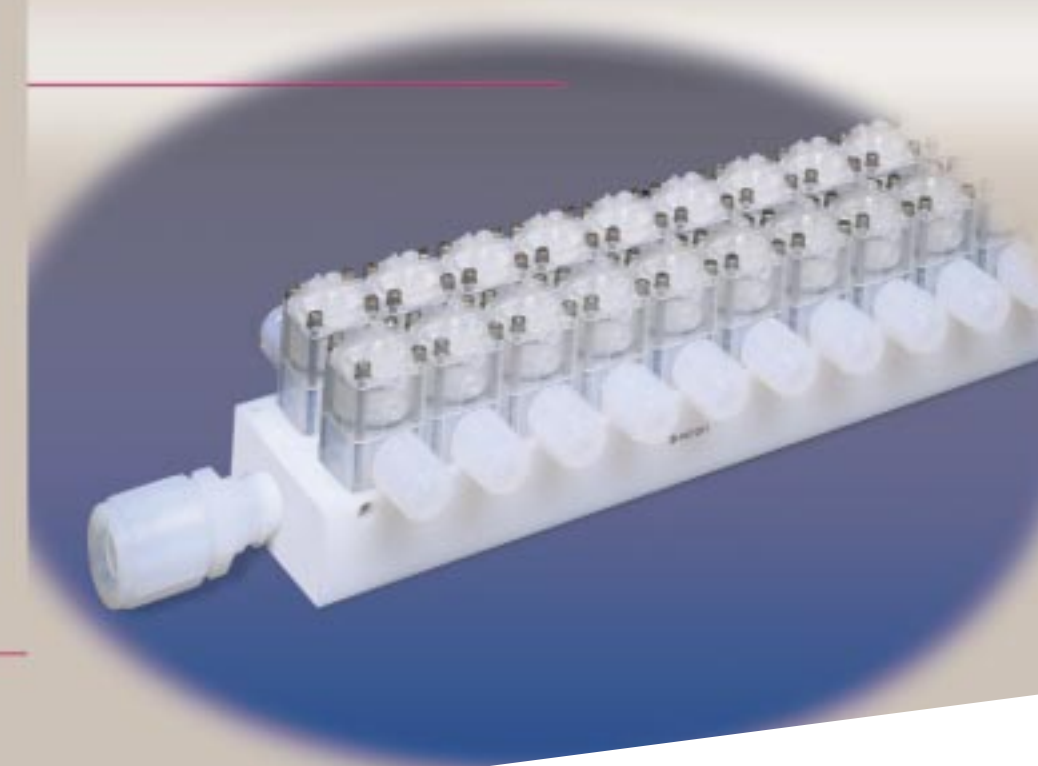


Furon® Integrated Manifolds

Furon Integrated Manifolds now feature the new Injection-Molded High-Performance Valve (HPVM). The HPVM valve offers additional advantages including visual position indication and a leak-proof housing. The Furon Integrated Manifold system offers superior levels of efficiency, cleanliness and fail-safe performance in critical fluid handling applications, plus unparalleled design flexibility—all in a single, space-saving package.

Features/Benefits

- Visual position indicator
- Supports fiber optic position indication
- Transparent housing allows easy viewing
- Air-tight, leak-proof seal to protect from atmospheric exposure.





Furon® 1/4" UPRP Precision Regulators

Furon UPRP Regulators were designed to precisely deliver aggressive pure chemicals and DI water while maintaining downstream pressure to a predetermined set level. The 1/4" UPRP is available in either manual or pneumatically actuated versions. The UPRP is ideal for high-purity semiconductor, chemical processing and pharmaceutical requirements. For higher flow requirements, Saint-Gobain Performance Plastics also offers a 1" UPRP regulator with pneumatic actuation.

Features/Benefits

- Designed for fluid temperatures up to 194°F (90°C).
- Composed of all virgin PTFE/Fluoroloy T® and PFA wetted flow paths.
- Integral leak detection port is standard.
- Assembled and tested in Class 100 Clean Room to ensure purity.
- PTFE isolation bellows provides secondary containment.



Furon® UPM 1000 Valve Featuring Visual Position Indicator

The Furon UPM 1000 series valves are now available with visual position indicators, allowing for easy identification of open and closed positions. The new UPM Slurry Valve is designed and tested specifically for aggressive slurry applications and is offered in 2 and 3-way configurations. Incorporating new features and configurations to this all virgin PTFE/molded HP PFA valve, demonstrates Saint-Gobain Performance Plastics commitment to continuing advancement.

Features/Benefits

- Visual position indicator.
- Supports fiber optic position indication.
- 120 PSIG (827 kPa) forward pressure rating.
- Double diaphragm containment with integral leak detection.
- Assembled and double-bagged in a Class 100 clean room.



AstiPure™ Pumps

The AstiPure line of bellows pumps includes PFD1, PFD2, PFD3 and PFD4 models. Pumping rates range from 2.5 to 26GPM. These pneumatically operated pumps have no metal parts, are self-priming, easy to maintain, and feature a compact design. The pumps handle aggressive chemicals or CMP slurries with assured reliability. For high temperature applications, PFH2 and PFH3 models are designed to operate at 160°C. PPRD1 and PPRD2 dispensing pumps are designed for precision repeatable delivery of ultrapure chemicals, sensitive or corrosive fluids in 6 to 80 ml doses.

Features/Benefits

- No metal parts
- Self-priming
- Easy maintenance
- Liquid temperatures -0°C to 100° C
- Compact design



AstiPure™ Stopcock Valves

AstiPure HP PFA Molded Stopcock Valves have been designed to meet stringent semiconductor industry requirements. Quarter-turn manual actuation allows quick and easy operation from closed to open position. The AstiPure Stopcock Valves are available in 2 and 3-port configurations, with sizes ranging from 1/4" to 1/2".

Features/Benefits

- 100% HP PFA and PTFE wetted flow path.
- Standard fine thread flare end connections.
- Maintenance-free operation
- Panel mount versions



Furon® Fluoropolymer Extruded Products

Furon Fluoropolymer Extruded Products are available in tubing, convoluted tubing, corrugated tubing, pipe, rod, and profile shapes. We specialize in a variety of fluoropolymers including PFA, FEP, MFA, ETFE, CTFE, and PVDF, in both standard and custom sizes. Products serve the semiconductor, pharmaceutical, medical, chemical processing and instrumentation industries. Our extensive processing capabilities include custom extrusions up to 27" in diameter, state-of-the-art fabricating services, sodium ammonia etching, laser marking, punching, flaring, jacketing, and multilayer extrusions.

Products Include:

- High purity PFA tubing
- Heat shrinkable tubing
- Custom profiles and shapes
- Co-extrusion



Furon® RDV & SMDV Self Manifolding Distribution Valves

The new high-purity injection-molded RDV/SMDV valves are available in both manual and pneumatic models. These valves are ideal for applications that demand high Cv flow factor, combined with the smaller footprint required by cost-conscious customers. Universal fittings allow the customer to order one standard valve, resulting in smaller volume inventory requirements. Primary applications include high-purity chemical and slurry delivery for chip makers, bulk chemical distribution systems, valve boxes and chemical processing companies.

Features/Benefits

- High-purity injection molded
- High Cv/high pressure rating
- Rapid configuration allows flexible design to meet a range of customer requirements
- Compact design