A commitment to excellence

**Precision Fluorocarbon, Inc. has a commitment to excellence —**
in its people, manufacturing processes, customer service, and quality assurance.

“At Precision Fluorocarbon, Inc., we are dedicated to the customer and the customer’s satisfaction. PFI’s entire staff is focused on our quality statement. From the initial contact, through the design and fabrication process, to delivery, we have one objective — customer satisfaction.”

Howard L. Frank
President

Precision Fluorocarbon, Inc. produces all types of plastic components for the semiconductor industry. PFI has a reputation for on-time delivery of precise and ultra-clean manufactured custom products.
Precision Fluorocarbon, Inc. has supplied quality PTFE diaphragms for the air-operated double-diaphragm pump industry since 1989. Diaphragms manufactured by PFI outperform competitors in durability tests time after time, and new innovations are constantly researched to further improve product quality. PFI also produces associated pump components including shuttle valves, seats, bodies, and manifolds.

PFI’s clean, well-lit molding shop is air-conditioned to a constant 74°–76°F. All molds are ground, polished, and nickel-plated. Non-metallic end rings protect the mold surface from damage and prevent contamination of the material being molded.

Bellows of virgin PTFE are used for their flexibility and chemical inertness in pulse dampeners, actuators and pumps.

PFI’s electric ovens are equipped with computer controls to ensure precise sintering cycles. The PFI process yields stress-free material with optimum physical properties.

Display models from machined plastics, including semiconductor parts, duck calls, radar sensors, and diaphragms of PTFE, are just some of PFI’s capabilities.
PFI offers auto molding of PTFE for certain high-volume parts. Parts are molded both to size and as blanks, which can be machined with less waste than machining from billets.

PTFE diaphragms are produced to the customer’s specification. Machines such as the one in this photo, heat-form the material into the desired shape.

Precision Fluorocarbon, Inc. manufactures a variety of valve components from every conceivable plastic. PFI encapsulates steel valve discs with virgin PTFE and manufactures all types of seats and packing.

Perfect parts delivered on time

Quality is of paramount importance at PFI. An array of inspection equipment, including this computerized Brown and Sharpe CMM machine, offers the highest degree of accuracy to ensure high-quality products.
Precision Fluorocarbon, Inc.’s five-axis horizontal milling center is capable of locating complex products in virtually any position and machining in simultaneous three-, four-, and five-axis motions. For reverse engineering complex surfaces, the machine’s scanning probe collects data and imports it into CAD/CAM software for development of surface models and the machine code for exact reproduction. The complexity and capabilities of PFI’s machinery are unmatched in the plastic fabrication industry.

Delivering the finest details—every time

PFI’s machine shop is air-conditioned to a constant temperature of 74°–76°F in order to maintain exact tolerances. Zoned and filtered air and excellent lighting help ensure clean and uniform parts.

PFI’s large CNC lathe has a 40-inch swing over the bed.

As a custom manufacturer of plastic products, PFI is contracted to produce many unusual items including duck and goose calls. The manufacturing of these products to strict design specifications is critical.

This vertical mill, complete with a fourth axis, features a 64-inch x 32-inch table.
PFI: a precision-built operation

PFI's experienced team offers solutions to customer's needs for engineered plastics applications and is committed to providing those customers the ultimate in custom-designed, manufactured plastic products.

Precision Fluorocarbon, Inc. is located on a scenic five-acre site near Houston Intercontinental Airport. This facility serves as the center for administrative offices, engineering, design, and manufacturing.

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