

PTFE CNC Parts



YOZONE offers innovative sealing and component technologies for the design and production of valves in critical applications used in the oil & gas, power generation, industrial, and nuclear industries. At YOZONE, we know that reducing fugitive emissions is critical, which is why we provide sealing and component products that surpass the strictest industry requirements, reduce leakage, and ensure caustic gases and liquids do not seep into your environment.

PROVIDING VALUE THROUGH VERTICAL INTEGRATION

Our vertically integrated processes allow us to produce PTFE and polymer solutions that are of the highest quality and able to meet your most stringent requirements while reducing cost of ownership.

ISO 9001:2008 CERTIFIED

We are ISO 9001:2008 certified and can provide material testing, statistical process control or other quality assurances if needed. We are dedicated to ensuring your critical component is right the first time.

Machined Polymer Component Solutions

With our machining services, we will machine your custom component to your exact specifications in a wide variety of engineered polymers, including PEEK, UHMW, TORLON, and ULTEM. Our expert machinists consistently hold extremely tight tolerances for a variety of critical application components and our dedicated facility makes certain your parts have no contamination from metal or other sources.

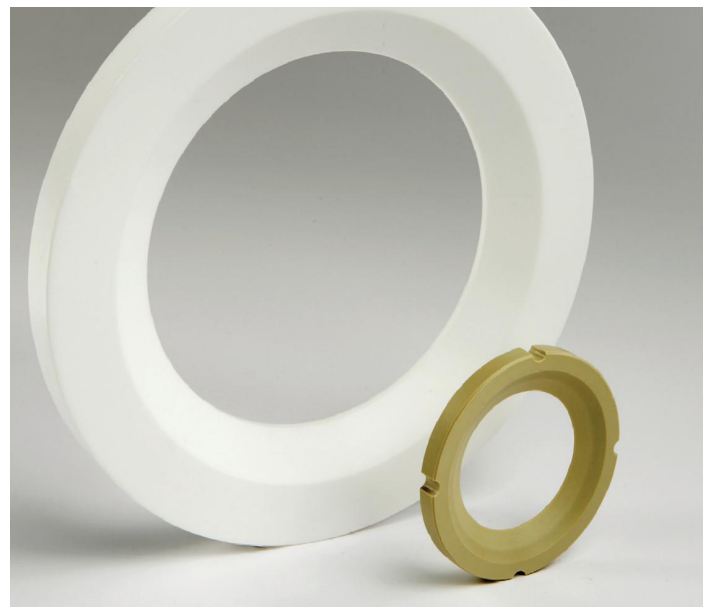
Valve & pump machined component solutions include:

- Manifolds
- Seats

- Diaphragms
- Wear parts
- Bearings
- Inserts
- Packing

MACHINING CAPABILITIES

- Manual lathe to 54" diameter
- Precise drilling of complex geometries and holes as small as .003"
- Machine parts as small as .020"
- CNC milling of components to 30" x 60" x 30"
- CNC turning of components up to 22" in diameter
- Horizontal milling
- 5 axis capabilities
- Polishing



PTFE Sealing Solutions

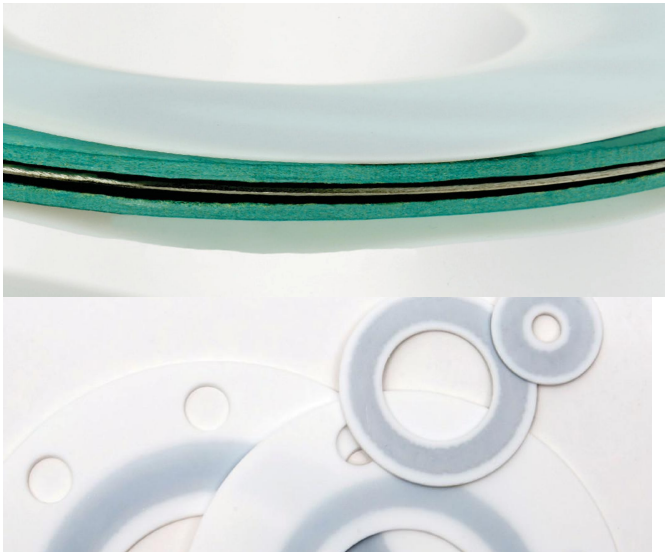
YOZONE is a recognized leader in the development, production and delivery of TEXOLON PTFE gaskets and seals. Our gaskets are used in a variety of sealing applications, including use with misaligned, damaged, or rough sealing surfaces. With production capabilities including resin compound blending, compression molding, and skiving, we are able to precisely control all aspects of your PTFE gasket from start to finish. Our in house laboratory and quality control ensure that you receive the quality product you expect.

FOR USE IN VALVE APPLICATIONS WHERE:

- Liquids or gases are corrosive
- Higher pressures are encountered
- Contamination must be avoided
- Sudden failure in a system would be hazardous
- Long service life is mandatory
- A tight seal is needed to control emissions
- Pressure variations are present

SIZES

- Can be manufactured to a wide choice of standard dimensions ranging from 1/2" up to 48"
- Other thicknesses are available upon request and full-face configurations are also available
- Offer blind, fluid blocking configurations with a handle for ease of installation



PTFE Rod, Cylinder & Sheet Solutions

YOZONE offers TEXOLON PTFE rods, cylinders, and sheets that deliver uncompromising performance and unsurpassed precision for critical valve applications.

MATERIAL SELECTION

All of our products are available in a variety of PTFE formulations including customized fillers and reinforcements to suit individual applications.

Some of our standard formulations include:

- Style 8764 - Premium Virgin PTFE
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- Style 9405 - Premium 25% Glass Filled
- Style 9406 - General Purpose 25% Glass Filled
- Style 8595 - Mechanical Grade PTFE
- Style 8790 - Modified PTFE
- Style THP - High Purity for critically clean applications

STANDARD FILLER FEATURES

All of our products are available in a variety of PTFE formulations including customized fillers and reinforcements to suit individual applications.

Some of our standard formulations include:

- Glass fiber
- Carbon
- Graphite
- Molybdenum disulphide
- Bronze
- Various pigments

