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The equipment that moves today’s industry is more reliable and highly-engineered than ever before. That’s why the Parker Seal Group develops and manufactures engineered sealing solutions – technologically advanced sealing devices and materials that can keep pace with the tighter tolerances, higher temperatures and more aggressive chemistries found in the modern machine.

These sealing products have our unique combination of experience and innovation built right in, and we’re able to supply them quickly and cost-effectively to fit virtually any application you can think of.

**Engineered Sealing Solutions**

**Worldwide — Where You Need Us**

Around the corner or around the globe, Parker’s Seal Group is there with engineered solutions to tough sealing problems. Your local Parker sales representative provides a single point of contact for local sealing support. And our worldwide headquarters, located in Irvine, California, is the hub of an established worldwide network of over 300 distributor and service center locations. This network – and the global sales and engineering support it provides – means you can always get quality products when and where you need them. It also means that sound advice from a Parker sealing expert is never far away.

**Built for Speed and Service**

Parker authorized distributors and Parker Service Centers (PSCs) are your connection to Parker’s engineered sealing solutions. Over 60 years strong, this extensive network includes an elite group of Sealing Technology Centers (STCs) that are qualified by Parker to act as full-service sealing specialists in their local area. The STCs offer applications assistance, inventory management, kitting and assembly services to help you streamline operations and reduce costs.

**Product Innovation**

Today’s sealing challenges demand innovative solutions, and nobody knows innovation better than Parker. Drawing from over six decades of engineering, material formulation and manufacturing experience, we continually develop new products for your evolving sealing needs. Our Parofluor™ Series Advanced Perfluorinated Elastomers and the ProTech™ Bearing Isolator are excellent examples of Parker innovation at work.

**Quality Initiatives**

Quality isn’t just a buzzword at Parker. It’s a culture, based on employee empowerment and continuous improvement. Our manufacturing facilities are registered to ISO 9001, ISO/TS16949:2002, QS 9000, AS 9100, ISO 14001, and we’re constantly striving to improve customer satisfaction and product quality through the implementation of:

- Six Sigma methodology
- Lean manufacturing
- TQM methodology
- Advanced product quality planning (APQP)
- Feasibility studies
- Kaizen events
Strategic Market Focus

Platforms that fly, including commercial, military and space vehicles

Products for water systems, appliances, consumer electronics, and food and beverages that are sold to the general public (WRC, FDA, UL, NSF, KTW, DVGW)

Chemical processing industry and associated equipment

Oil and natural gas exploration, drilling, extraction, conveyance, and power generation equipment

All hydraulic or pneumatic systems or components, including attachments on mobile equipment, cylinders, valves, accumulators, fittings, pumps and rotary actuators

Applications associated with the manufacture or processing of products or components (PMC — Process, Measurement and Control) not specifically identified in other industry categories

All computer systems (personal digital assistants, laptops, desktops and mainframes) and related peripherals

Pharmaceutical manufacturing and delivery systems, surgical devices, instrumentation, diagnostic tools and other equipment for healthcare, dental and pharmaceutical industries

Products for non-aerospace government land and sea-based platforms (e.g., tanks, subs, marine, radar, etc.)

Equipment and materials used in the fabrication and assembly of semiconductor devices

All equipment associated with communication and datacom, including wireless communications devices, cellular base stations, indoor and outdoor routers and switches (also includes cable TV equipment)

All moving vehicles and components associated with propelling and stopping vehicles, including automotive, heavy-duty truck, off-highway, agricultural equipment and marine applications

The Parker Seal Group is an operating unit of the Parker Hannifin Corporation, a leading supplier of motion and control products to some of the biggest names in worldwide industry.

For over 60 years, we’ve been manufacturing quality sealing products for use in transportation, medical and healthcare, semiconductor, aerospace, and many other applications. These products play an important role in the safe and reliable operation of critical equipment in hospitals, laboratories, and in everything from semiconductor processing fabs to airplanes and heavy-duty trucks.

In addition, our shielding and grounding products protect critical electronics from the harmful effects of electromagnetic interference, or EMI. And our thermal interface materials cool hot microprocessors and power supplies.

For more information about Parker’s broad range of engineered seals and sealing systems, contact your local Parker sales representative or authorized Parker seal distributor. Or visit our Website at www.parkerseals.com.
Charter
The Chomerics division designs and manufactures electrically conductive materials for shielding Electromagnetic Interference (EMI) and thermal interface products and systems for electronics packaging.

Products

EMI Shielding
- CHOFORM® and ParPHorm™ form-in-place elastomer gaskets
- CHO-BOND™ and CHO-SHIELD™ conductive adhesives, coatings and sealants
- CHO-FLEX™ conductive coatings and inks
- CHO-SEAL™ and CHO-SIL® conductive elastomer gaskets
- PREMIER™ conductive plastic shielding solutions
- SOFT-SHIELD® low closure force EMI gaskets
- Wire mesh gaskets and STREAMSHIELD™ shielded vents
- SPRINGLINE® BeCu fingerstock, CHO-SORB® ferrites
- Electrically conductive tapes and engineered laminate shields

Thermal Management
- T-WING® and C-WING™ heat spreaders
- THERMFLOW® phase-change thermal interface materials
- THERMATTACH™ thermally conductive adhesive tapes
- THERM-A-GAP™ thermally conductive gap fillers and insulation pads
- CHO-THERM™ thermally conductive insulating pads
- THERM-A-FORM™ thermally conductive silicone adhesives and caulks

Manufacturing Capabilities/Technologies
Compression and injection molded conductive elastomers, highly-engineered, electrically conductive injection molded plastic solutions, conductive silicone-to-metal & conductive silicone-to-plastic overmolding, conductive elastomeric extruding and splicing, automated form-in-place gasket dispensing and painting, laminating, coating, single-knife slitting, rotary die-cutting, male/female and steel rule die cutting, wrapped foam gasketing, metallic conformal coating, in-house tooling and assembly.
Charter
The Composite Sealing Systems Division designs and manufactures engineered seals and sealing systems consisting of metal-retained elastomeric combinations for static face seal applications and metal seals for extreme sealing environments.

Products

Composite Seals
- Gask-O-Seal® volume/void seals
- Integral Seal™ edge molded seals
- Stat-O-Seal® fastener and fitting seals
- ThredSeal fastener and fitting seals
- Lock-O-Seal® fastener and fitting seals

Metal Seals
- EnerRing® resilient metal seals (O, C, E, U and V cross-sections)
- Metal jacketed gaskets
- Corrugated gaskets
- Flat metal gaskets
- Metal sealing systems

Manufacturing Capabilities/Technologies
Machining, stamping, compression, transfer and injection molding, rubber-to-metal bonding, vacuum heat-treatment, electroplating, roll-forming, welding and lapping.
Charter
The Engineered Polymer Systems Division and the Packing Division Europe design and manufacture engineered elastomeric, polymeric, and plastic seals and sealing systems for dynamic applications.

Engineered Polymer Systems Division (EPS) Products

**Packings**
- PolyPak® rod and piston seals
- WearGard™, MolyGard®, and PTFE wear rings and bearings
- Wipers and scrapers
- U-Cup packings
- V-Packing
- Integrated Piston™

**Rotary Shaft Seals**
- Clipper® oil seals
- Parker oil seals
- FlexiLip® PTFE rotary seals
- ProTech™ bearing isolators

**PTFE Seals**
- FlexiSeal® spring energized lip seals
- Custom PTFE seals
- FlexiCase™ canned PTFE seals

**Custom Rubber Products**
- RM Dynex™ expansion joints
- SuperSpan™ and Flextra™ expansion joints
- Oilfield rubber products

Packing Division Europe (PDE) Products

- Rod and piston seals
- Rotary seals
- Flange seals
- Cushioning seals for pneumatic cylinders
- Polon® PTFE seals
- FlexiSeals®/EnerSeals® spring-assisted PTFE seals
- Ultrathan® polyurethane seals
- Sealing systems for high-pressure water pumps
- Guiding elements
- Wiper rings
- Diaphragms
- Special profiles and precision molded shapes
- Anti-vibration elements
- Bonded rubber-metal seals
- Bearings
- Plastic/rubber composite seals for dynamic automotive powertrain applications
- Bonded piston seals
- Stat-O-Seal® fastener and fitting seals
- EnerRings® resilient metal seals and shapes
- Isolation mounts and grommets

Manufacturing Capabilities/Technologies
Plastics injection molding, urethane reactive extrusion, plastics compounding; rubber compression, transfer, and injection-compression molding; in-house elastomeric mixing, rubber to metal bonding; PTFE mixing, molding and sintering; CNC precision machining and milling, in-house prototyping and tooling.
Charter
The Engineered Seals Division designs and manufactures both homogeneous and inserted engineered elastomeric shapes, utilizing state-of-the-art materials and processes, for sealing systems and isolation applications.

Products

Composite Seals
- Fluid transfer seals
- Bearing seals

Custom Molded Seals
- Turbine shaft seals
- Machined dynamic seals
- Isolation mounts and grommets
- Custom seals and isolators for HVAC systems
- Diaphragms
- Hay rake tines and other agricultural equipment components
- Poultry picking fingers
- Filter seals
- Fuel management seals
- Aerosol valve seals
- Press-in-place diamond seal and H-seal

Manufacturing Capabilities/Technologies
Compression, transfer, injection and liquid injection molding (LIM), rubber-to-metal/rubber-to-plastic/rubber-to-PTFE bonding, in-house elastomeric mixing, specialty machining and sub-assembly.
Charter
The O-Ring Division designs and manufactures engineered elastomeric O-ring seals – including high-performance materials for nearly every seal application.

O-Ring Division (ORD) Products

O-Rings
- O-ring seals in fluorocarbon, fluorsilicone, silicone, ethylene propylene, nitrile, HNBR, neoprene, butyl, polyacrylate, polyurethane and many other formulations
- O-ring seals in HiFluor® and specialty perfluorinated elastomer formulations, such as Parofluor™ and Parofluor ULTRA™
- UL, NSF, FDA, USDA, USP, AMS, NAS and MIL-spec approved O-ring materials
- Large diameter continuous molded O-rings
- ParBak™ Back-up rings
- Drive belts

O-Ring Accessories
- Standard and custom O-ring kits
- O-ring installation lubricants and tools

O-Ring Division Europe (ODE) Products

- O-ring seals in fluorocarbon, fluorsilicone, silicone, ethylene propylene, nitrile, HNBR, neoprene, butyl, polyacrylate, polyurethane and many other formulations
- O-ring seals in HiFluor® and specialty perfluorinated elastomer formulations, such as Parofluor™ and Parofluor ULTRA™
- Large diameter continuous molded O-rings
- Parbak® back-up rings
- Standard and custom O-ring kits
- O-ring installation lubricants and tools

In addition to O-rings, the following products are available from ODE:
- Custom molded shapes
- Extruded profiles
- Filter seals
- Special lathe cut profiles
- Plastic/rubber composite seals for static automotive powertrain applications
- Aerosol valve seals
- Custom seals for HVAC systems

Manufacturing Capabilities/Technologies
In-house elastomeric mixing and tooling, computer-controlled compression and injection molding, liquid injection molding (LIM), automated vision inspection, co-injection molding.
Charter
The Powertrain Division designs and manufactures innovative polymeric sealing systems – specializing in over-molded technology and multi-part assemblies.

Manufacturing Capabilities/Technologies
Compression, injection and transfer molding; integrated assembly, over-molding rubber-to-plastic and rubber-to-metal bonding.

Products

Composite Seals
- Over-molded rubber-to-plastic composite carrier seals
- Short Runner Valve (SRV), Charge Motion Control Valves (CMCV) blades/assemblies for air intake control
- Over-molded rubber-to-plastic filter seals
- Bonded piston seals for dynamic biaxial applications
- Bonded rubber molded servo valve seals
- Rubber coated metal (RCM) seals

Custom Molded Seals
- Press-in-place seals
- Isolator mounts and grommets
- Integrated sealing systems for cam cover, oil pan, water outlet connector and breather applications
- Lip seals

Packings
- ChemCast® piston seals and wear rings
Charter
The Seal Aftermarket Products Division specializes in the most technologically advanced kitting for industrial, aerospace and transmission applications, serving the aftermarket and original equipment service customers.

Products
Aftermarket Products
- Toledo Trans-Kit® automatic transmission repair kits
- Bryco® automatic transmission repair kits
- RoadMaster™ automatic transmission hard parts & solenoids
- ProSelect® automatic transmission bulk components

Manufacturing Capabilities/Technologies
High-quality industrial, aerospace and transmission kits; advanced testing equipment ensures part quality, design and engineering capabilities, tool complicated planetary gears.
TechSeal Division (TSD)

Charter
The TechSeal Division designs and manufactures engineered elastomeric extruded profiles, lathe cuts and spliced/fabricated gaskets.

Products

Extruded Products
- Small-diameter precision cut seals
- Large-diameter lathe cut seals
- ParFab™ extruded profiles
- ParFab spliced/fabricated gaskets (hollow and solid rings/gaskets, 4-corner “picture frame” gaskets)
- TetraSeal® circular lathe cut seals (AS-212 square cross-section lathe cut seals)
- Spin-on oil filter seals
- Industrial drive belts
- Special lathe cut profiles (D-rings, V-seals, L-seals, double chamfers, short lip seals, etc.)
- Long-length extruded seals
- Anti-drain back seals
- Sweeper belts

Manufacturing Capabilities/Technologies
Compression and liquid injection molding, precision cutting, splicing and fabricating, close tolerance extruding, USP Class VI and FDA white-listed, UL and NSF 61 certified materials.
**North America**

United States of America

San Diego, California
North Haven, Connecticut
Miami Lakes, Florida
Elgin, Illinois
Woodridge, Illinois
Goshen, Indiana
Ligonier, Indiana
Syracuse, Indiana
Lexington, Kentucky
Woburn, Massachusetts
Gothenburg, Nebraska
Hudson, New Hampshire
Fairport, New York
Marion, New York
Wilson, North Carolina
Fremont, Ohio
Spartanburg, South Carolina
Lebanon, Tennessee
Livingston, Tennessee
Nacogdoches, Texas
Salt Lake City, Utah
Iron Gate, Virginia
Lynchburg, Virginia

Canada

Orillia, Ontario

Mexico

Guadalajara, Jalisco
Tijuana, Baja California
Matamoros, Tamaulipas

**Europe**

Belgium

Boom, Belgium

Czech Republic

Sadska, Czech Republic

Denmark

Helsigør, Denmark

Finland

Oulu, Finland

France

Saint-Ouen l’Aumône

Germany

Bietigheim-Bissingen, Germany
Pfeidelsheim, Germany
Italy
Adro (BS), Italy

United Kingdom
Marlow, United Kingdom

Asia
China
Dongguan-Guangdong, China
Shanghai, China
Shenzhen, China
Tianjin, China

South America
Brazil
Sao Paulo, Brazil
Product Overview

Composite Seals

Gask-O-Seals
Parker Gask-O-Seals have the elastomer molded directly in place within the groove or grooves of a metal or plastic retainer. During assembly, the rubber seal is deformed a predetermined amount to very nearly fill the void areas to achieve controlled confinement. Gask-O-Seals are very reliable elastomer-bonded-to-metal or plastic sealing devices intended for applications requiring extreme reliability, longevity and durability. They are used in a wide range of military, communications, aircraft and marine applications.

ParPHorm Form-in-Place Seals
ParPHorm form-in-place technology provides yet another sealing solution for the design engineer. The ParPHorm system combines the benefits of high-quality Parker elastomers with precise, fully automated, form-in-place application of the seal element.

ParPHorm provides high-reliability, and is a cost-efficient and effective sealing product for cellular telephones, electronics packaging and other high volume products requiring reliable environmental sealing.

Integral Seals
Integral seals are custom engineered sealing devices designed to solve specific customer sealing problems. The integral seal design bonds the elastomer sealing element to thin metal or engineered plastic retainer plates, allowing for a very complex sealing geometry, ease of assembly and reliable service in a single seal element.

These reliable seals are best suited for high-volume OEM or retrofit applications in automotive, industrial, aerospace and military applications.

Bonded Piston Seals
Our bonded piston seals are used in automatic transmission applications, differentials and braking systems. They are manufactured with unique bonding materials and application techniques, then injection or compression molded to steel, aluminum or plastic. The one-piece construction reduces components, is easy to assemble, and offers greater reliability over traditional two-piece construction.
Carrier Gaskets
Our custom designed carrier gaskets are comprised of an elastomeric seal over-molded onto one or both sides of a thermoplastic nylon carrier. Many material options are available to meet application requirements, and multiple elastomers can be incorporated into a single gasket, tuned for multiple fluid medias.

Additional value-added features can be easily built into the design including noise reduction and oil scraper tabs. The carrier design can also aid in assembly by adding molded-in locator pins or rubber grippers to the torque limiters, which will hold bolts in place during automatic assembly.

Fastener & Fitting Seals
Fastener and fitting seals provide reliable static sealing for screws, bolts, tube fittings and other fasteners.

Available designs are Stat-O-Seals for sealing under the heads of bolts and other similar fasteners, ThredSeals for sealing around the thread roots of any threaded fastener and Lock-O-Seals for sealing tube fitting bosses.

Parker fastener and fitting seals are available in a wide range of standard sizes, retainer materials, compounds and surface finishes. Standard and custom fastener seal kits are also available.

Active Runner Intake Manifold Valves
Commonly referred to as Short Runner Valves (SRV) or Charge Motion Control Valves (CMCV) these assemblies vary the air flow rate into a manifold to maximize fuel efficiency and horsepower in automotive vehicles.

The design and production of this product highlights our innovative engineering and manufacturing capabilities. With our design, we eliminated a machined shaft through the center, and replaced it with a reliable valve comprised of a one piece over-molded assembly.
Custom Molded Seals

Custom Molded or Machined Shapes
Custom molded or machined seals are available in a virtually infinite range of shapes and cross sections. Parker designs and manufactures engineered elastomeric shapes, both homogeneous and inserted, for sealing systems and isolation applications.

Parker's custom seals are molded or machined using a wide variety of processes including compression molding, transfer molding, injection molding and liquid injection molding. These seals are designed to work as individual components, or in combination with other sealing products in a system.

Our custom machined seals are molded and cut with precision tooling to a given geometry utilizing the latest technology, ensuring the highest quality.

Diaphragms and Directional Valve Seals
These advanced components can be used in applications that utilize both pressure and/or vacuum to function.

Diaphragms and directional valve seals are used in a variety of media types and can be designed for extreme temperature conditions. They are widely specified in systems with very small operating envelopes and are not limited in size or volume.

Over-Molded Seals and Sub-Assemblies
Over-molded seals and sub-assemblies provide a value added design solution, often eliminating components in a finished assembly. With proven product design and advanced processing techniques, our design engineers can provide a value added solution to help drive functionality improvements as well as finished component cost savings.

Press-in-Place Seals
Press-in-place seal design technology provides simple seal retention in straight-walled or dove-tail grooves. These seals are easily installed and removed for time saving assembly. Press-in-place seals can offer high-sealing pressures for less micro-leakage and exceptional sealing properties with non-ideal mating surfaces.
Extruded Products

Standard and Custom Lathe-Cuts
In addition to the typical square or rectangular lathe-cut cross-sections, Parker offers a number of special cross-sectional configurations. Cross-sections such as double chamfers, D-rings, V-hicular, L-gaskets, external U-sections, angle L-seals and short lip seals are available from any of the major polymer families. Sizes range from .025" through 19.000" (.635 mm through 482.6 mm) outside diameter. Parker's unique manufacturing process assures high-quality parts and in most cases, no tooling charges.

Our TetraSeal is a circular lathe-cut sealing device made with a square cross-section. Available in a wide variety of elastomeric compounds, the TetraSeal is engineered for use in most static applications.

ParFab Extruded Profiles
These profiles are typically used for fabrication into spliced rings, 4-corner spliced picture frame gaskets or custom parts cut to specific lengths. They can also be supplied in bulk footage with or without pressure sensitive adhesive (PSA).

Parker offers a wide variety of standard extruded profiles in many configurations, such as; solid and hollow-O, solid and hollow-D, U-channel, rectangular, solid and hollow square and hollow-dart configuration profiles, which can be designed for specific application needs.
ParFab Spliced/Fabricated Products

These products are manufactured using a hot vulcanization process to provide spliced hollow and solid rings and custom gaskets from either standard or custom cross-sections. They offer an ideal, cost-effective sealing solution for many applications.

ParFab parts can be fabricated into low closure force seals, large diameter O-rings, non-standard O-rings and custom profiles with inside diameters larger than 2.5” (63.5 mm). Extruded profiles with a flat surface, can be provided with pressure sensitive adhesive.

Non-Sealing Extruded Products

Parker also offers solutions for non-sealing applications requiring spacers, rubber springs, insulation and vibration dampening. These products can be supplied in the form of sleeves, bumpers, tubing, pills, grips, rollers and many other configurations extruded from a variety of basic rubber and thermoplastic materials.

Our material development and design expertise also solves demanding drive belt needs. We offer high and mid-grade belt materials with superior tension and ozone resistance characteristics. Belts designed for the vacuum cleaner industry are thoroughly tested on a state-of-the-art life test stand, designed exclusively for this market.
Metal Seals

Dynamic Metal Seals
Parker’s dynamic metal EnerRings offer a new design option for critical low duty-cycle, all metal sealing in mission critical applications. Frequently selected for high-pressure/high-temperature (HPHT) service, dynamic metal seals excel under extreme environments. Typical applications include valve stem seals, both quarter-turn and rising stem, and fluid couplings.

Ultra-High-Temperature Metallic Seals
In the never-ending search for higher efficiency and reduced emissions, jet engines and gas turbines are now running hotter than ever. Parker’s latest EnerRing resilient turbine seals offer robust ultra-high-temperature sealing solutions for compressor, combustion chamber and power turbine stages.

With Parker metal seals offered in advanced nickel-based superalloys, turbine blade alloys, and with optional integral thermal insulation, engine designers can find solutions tailored for every application. This includes extended service to 1800°F (982°C) and extreme resistance to stress-relaxation for 30,000 hours of service between scheduled replacement.

Metal Seals and Gaskets
Parker provides metal seals in a wide range of base metals and plating finishes. Applications include cryogenic, high vacuum, ultra-low leakage, high radiation, and significant thermally induced movements. They are suitable for use in compressors, heat exchangers, jet engines and other high-temperature or chemically reactive applications. They are available as metal jacketed gaskets, corrugated gaskets and flat gaskets in a wide range of sizes and shapes.

Our resilient metal seals include O, C, E, U, and V sections from 0.031” to 0.625” (0.78 to 15.8 mm) with any diameter from 0.180” (4.6 mm) upwards, depending on the selected product. We also manufacture AS1895 E type seals and MS series metal O-rings.
O-Rings

O-rings are available in all AS568 inch sizes as well as a wide range of international metric sizes to DIN 3771, ISO 3601 and JIS B2401. In addition, Parker is tooled in over 1,500 non-standard O-ring sizes which are available on special order, and can make practically any custom O-ring imaginable.

Parker O-rings can be molded in a wide range of elastomer compounds ranging from basic neoprene to special perfluorinated materials called Parofluor ULTRA. Parker O-rings are recommended for both static and dynamic sealing service in practically all vacuum, gas and liquid applications. With the widest range of compounds available in the industry and a full complement of specialty material formulations, Parker has the product to meet the world’s needs.

O-Ring Accessories

To assist in the installation of O-ring seals, Parker provides a number of useful items for use in sizing, installing and lubricating O-rings.

Parker offers special O-ring kits in a wide range of compounds as well as petroleum or silicone-based O-ring lubricants to facilitate seal assembly installation.

Also available are brass and plastic O-ring installation and extraction tools, O-ring sizing cones and Pi tapes.
Packings

Rod Seals
The PolyPak line of fluid power rod and piston seals has been the industry standard for over 40 years. Parker's PolyPak rod seals are available in a variety of profiles, energizers and seal materials – providing sealing solutions for light, medium, and heavy duty hydraulic applications.

Additionally, Parker offers a full line of asymmetrical rod seals, U-cups, and PTFE rod seals for both hydraulic and pneumatic applications. Seal profiles are available in both standard and metric sizes as well as in a full range of rubber, urethane and PTFE materials.

Piston Seals
Our diverse range of piston seal profiles suit a broad range of hydraulic and pneumatic applications. Parker's designs and materials extend our piston seal solutions across the full range of industry temperatures and pressures. The most common families of piston seals include:

ChemCast Piston Seals
ChemCast piston seals provide flawless sealing at temperatures over 300°F (149°C) and pressures exceeding 50,000 psi. At the same time, they eliminate hydraulic piston drift, cold flow and metal-to-metal contact. Each seal consists of a self-lubricating, reinforced, heat-stabilized thermoplastic outside diameter sealing ring and an oval elastomeric back-up ring.

Urethane Piston Seals
We supply a complete line of urethane single and bi-directional piston seals. Parker's Molythane and Resilon family of urethane materials are industry known for their high levels of performance and quality.
PTFE Piston Seals
Parker’s complete line of PTFE energized piston seals is offered in various PTFE compounds including bronze, glass and graphite loaded solutions. Profiles include energized PTFE rings, T-seals, capped seal designs, as well as engineered profiles.

Integrated Pistons
Our integrated piston combines piston, bearing and seal into a single product. This integrated solution enables design engineers to tighten clearance gaps and in turn improve the performance of the cylinder. Integrated pistons are available using a variety of core materials and seal materials.

Wipers and Scrapers
Parker offers a complete line of canned, energized and snap-in rod wipers. J-canned wipers are urethane-bonded-to-metal wipers designed to press into a groove for ease of installation and replacement.

We also have a full line of single and double lip snap-in wipers manufactured in a wide range of urethanes and traditional elastomers.
**Wear Rings and Bearings**

Manufactured in nylon, PTFE and composite materials, our full line of wear rings and bearing products are designed to maximize value for cylinder manufacturers. Standard as well as tight tolerance wear rings are available in a variety of heights, thicknesses and cut (butt, skive and step-cut configurations). PTFE bronze-filled and graphite-filled PTFE bulk strip, cut-to-length and machined rings are also available in a variety of heights and thicknesses.

**V-Packings**

Parker manufactures a wide range of V-pack solutions from homogenous rubber, fabric reinforced rubber, PTFE, PEEK and other engineered materials. Different designs, stack configurations and material choices are available for high temperature and pressure applications. Various cap and back-up devices are available to extend the service life and performance of Parker's V-packings.

**T-Seals**

T-Seals feature an elastomer seal element with nylon or PTFE back-up rings to prevent the seal from extruding or rolling in the groove. Parker's T-Seal product line is available in a variety of materials and configurations for industrial applications.
PTFE Seals

**PTFE FlexiSeals and EnerSeals**

Our full line of spring energized PTFE lip seals are used on rod, piston, face and rotary sealing applications. FlexiSeals and EnerSeals are typically used in areas where elastomeric seals cannot meet the frictional, temperature, or chemical resistance requirements of the application.

Utilizing a variety of jacket profiles, PTFE compounds, spring types, and lip configurations, these seals can be designed to meet the requirements of the most demanding seal environments.

**PTFE Fluid Power Seals**

Parker’s PTFE fluid power seals include piston seals, rod seals, buffer seal rings, rod wipers, rotary swivel seals and wear rings. Standard inch, metric and custom designs are available.

PTFE seal materials are produced in all of the standard filled or unfilled configurations from compounds commonly used in hydraulic or pneumatic PTFE fluid power components. Proprietary high-performance compounds are available for especially demanding applications.

**PTFE FlexiLip and FlexiCase Rotary Seals**

FlexiLip high-speed PTFE lip seals are designed for rotary applications where elastomer lip seals fail, and mechanical seals are too costly. The filled PTFE sealing element provides chemical compatibility, a wide temperature range and high pressure capability.

FlexiLip seals will run in dry and abrasive media environments and are available in single, dual and triple sealing lip designs, as well as in metal-retained FlexiCase™ configurations.
Rotary Shaft Seals

Rotary Shaft Oil Seals
We offer a complete line of oil seal products including the proprietary Clipper Oil Seal design, with integrally precision-molded rubber/aramid fiber outer case and elastomeric inner lip. Stainless steel garter springs provide correct interference with rotating shafts. Varying profiles include factory split, MIST, single-lip, dual-lip, excluder and molded-in spring.

Parker Oil Seals are elastomer-lipped metal-retained rotary shaft seals available in a multitude of configurations, including single, double and triple-lip; with and without springs; with scraper, flat, and dual lips for appropriate contaminant exclusion or fluid retention.

ProTech Bearing Isolators
ProTech bearing isolators are the ultimate in bearing protection with their unitized, two-piece non-contact design providing zero lubricant leakage and total exclusion of contaminants. Patented, with additional patents pending, ProTech, ProTech 360, and ProTech Millennium™ are far superior to isolators that rely on other internal seals for sealability.

ProTech is available in standard flanged, non-flanged, pillow block, narrow, split, multi-port and step shaft profiles. Custom designs accommodate seal needs for split air purge, turbine and grease purge systems.

High Speed Shaft Seals
FlexiLip high-speed PTFE lip seals are designed for rotary applications where elastomer lip seals fail, and mechanical seals are too costly. The filled PTFE sealing element provides chemical compatibility, a wide temperature range and high pressure capability.

FlexiLip seals will run in dry and abrasive media environments and are available in single, dual and triple sealing lip designs, as well as in metal-retained FlexiCase™ configurations.
Specialty Rubber Products

Non-metallic Expansion Joints
Parker manufactures custom fabric expansion joints for gas turbines, fossil-fuel-fired power generation and industrial facilities serving pulp and paper, refining, cement, waste treatment and other non-utility industries.

Expansion joint material capabilities include rubber mixing, calendaring, vulcanization, pressing, extruding and sheeting FKM, EPDM, CR, Nitrile, TFE, HNBR, silicone and other commonly used compounds. Parker has in-house capabilities to weave, braid, coat, twist, and sew with fiberglass, aramid fiber, ceramic, stainless and specialty metals.

Oilfield Rubber Products
Parker’s drilling and well-servicing products span a broad range – including blowout preventers, packer elements, diaphragms, drill pipe/casing protectors, hammer union seals, packer cups, cement plugs, liner wipers, flex plugs, oil saver rubbers, pipe wipers, rod strippers, swab cups, pulsation dampeners, test cups and water saver rubbers.
Aftermarket Kits

**Toledo Trans-Kits**
The Toledo Trans-Kit (TTK) automatic transmission repair kits offer simplified diagrams and technical information sheets to enhance the functionality of each kit. The TTK kits provide the aftermarket with a broad selection of American, European and Japanese applications.

TTK kits are recognized among the highest quality and most comprehensive kits available to transmission professionals.

**Bryco**
For over 25 years, Bryco automatic transmission repair kits have been among the international market’s most well known and respected products.

Bryco kits are foremost in providing quality, price and the largest selection of foreign applications.

**RoadMaster**
RoadMaster brand of automatic transmission hard parts and solenoids leverages its excellent reputation and brand loyalty in the domestic market for automatic transmission hard parts and solenoids.

The RoadMaster kit includes; automatic transmission hard parts; solenoids and sensors, pump shaft, sprags, sungear shells and ring gears.

**ProSelect**
The ProSelect brand is known in domestic and international markets for its broad product offering as well as its proprietary and custom products.

ProSelect automatic transmission bulk components include; pan gaskets, bands, bushings, thrust washers, metal clad seals, PTFE and metal sealing rings, steel and friction clutch plates. And, our respected, highly-demanded and patented sungear shell “The Beast.”
EMI Shielding

**Automated Form-in-Place Elastomer Gaskets**
Automated CHOFORM technology dispenses form-in-place conductive elastomer gaskets on metal or plastic housings. The system applies programmed gasket beads with exceptional accuracy in three full axes, compensating for uneven surfaces in casting and molded parts to provide consistent, highly reliable seals.

**Conductive Adhesives, Coatings & Inks**
CHO-SHIELD epoxy coatings provide EMI shielding, anti-static protection, corona shielding and surface grounding in a wide range of applications.

CHO-BOND adhesives are electrically conductive epoxy and silicone resins that cure at room temperature, elevated temperature or in humidity.

CHO-FLEX conductive coating is designed for EMI shielding of flexible circuit laminates; it can be creased, heat-formed or scratched without affecting performance.

**Conductive Elastomers**
Versatile CHO-SEAL and CHO-SIL conductive elastomers are available in many application grades. They can be extruded, molded or die-cut into EMI gaskets or grounding contacts. In applications for electronic enclosures and handheld devices they can be over-molded onto metal or plastic substrates or housings.
Conductive Thermoplastic for EMI Shielding

PREMIER is the first commercially available conductive thermoplastic for real world EMI shielding solutions. It is a blend of PC/ABS thermoplastic polymer alloys and conductive fillers engineered for stable electrical, mechanical and physical performance. PREMIER provides world class shielding effectiveness, requires no machining, plating, painting, vacuum coating, or other added processing steps. The elimination of secondary operations can reduce costs by up to 50% compared to die castings, bent formed metal, machined extrusions and plastic plated parts. PREMIER provides cost-efficient EMI shielding for applications in telecommunications, computer servers, commercial, automotive and defense electronics.

Low Closure Force, Foam-Based Gaskets


These EMI gaskets include knitted mesh strips, mesh frame gaskets, compressed mesh and wire mesh with elastomer cores. SOFT-SHIELD gaskets meet the needs of low-cost, low closure-force shielding applications.
Thermal Management

Heat Spreaders
T-WING and C-WING heat spreaders provide a low-cost, effective means of cooling IC devices in restricted spaces where conventional heat sinks aren’t appropriate. They typically provide junction temperature reduction of 68°F (20°C) when applied on microprocessors and cache chips in laptop PCs and other high density, handheld electronics, and on disk drives. They’re easily added by peel and stick application.

Phase-Change Thermal Interface Materials
THERMFLOW materials are thermally enhanced polymers designed to minimize the thermal resistance between power dissipating electronic components and their associated heat sinks. This low thermal resistance path maximizes heat sink performance and improves the reliability of microprocessors, memory modules, DC/DC converters and power modules.

Thermally Conductive Adhesive Tapes
THERMATTACH tapes are double-sided adhesive systems that replace mechanical fasteners for bonding heat sinks to ceramic or metal packages. They provide excellent thermal, mechanical, environmental and chemical properties.
Thermally Conductive Fully Cured Dispensable Gap Fillers
THERM-A-GAP Dispensable Gap Fillers are ideal for applications where gap filling pads overstress component solder joints and leads which can result in catastrophic system failure. These materials are highly conformable, one component, pre-cured silicone gels that can be dispensed to fill large and uneven gaps in electronics assemblies.

Thermally Conductive Gap Fillers
THERM-A-GAP elastomers are used to fill air voids between PC boards or high temperature components and heat sinks, metal enclosures and chassis. The exceptional conformability of these advanced materials enables them to blanket highly uneven surfaces, transferring heat away from individual components or entire boards and allowing chassis parts to be used as heat spreaders where space is restricted.

Thermally Conductive Insulators
CHO-THERM thermally conductive, electrically insulating interface materials consist of silicone, fiberglass and ceramics. They are produced with numerous thermally conductive, dielectric fillers that transfer heat from electronic components to heat sinks or other heat sinking devices.

Thermally Conductive Silicone Compounds
THERM-A-FORM form-in-place materials are used for heat transfer applications in electronic component cooling. These flexible elastomer compounds minimize stress on components. They are available in a range of kit sizes for both manual and pneumatic dispensing.
Basic Seal Materials

Compounds
The heart of any Parker elastomeric seal is the compound from which it is manufactured. Parker compounds are among the world’s most effective seal materials.

A compound is a mixture of a base polymer and a specific blend of chemical ingredients tailored for particular required characteristics to optimize performance in an application. Our continuing material research at our divisions assures Parker customers that only state-of-the-art formulations are used.

Many Parker seals are composite products, fully utilizing the unique properties of elastomer, polymer, metal or ceramic materials, in resourceful and innovative combinations.

In-House Mixing
A clean, precise mixing process is essential to the production of – as well as the resulting performance of – quality, engineered seals and sealing systems. Our in-house mixing capabilities, which employ the latest in advanced computer control technology, allow us to combine standard and custom compounds with unmatched speed and accuracy.

From powder to polymer, computer controlled mixing eliminates batch-to-batch material variations, keeping product quality consistently high.

Specialty Elastomers
The Parker Seal Group divisions have developed a wide range of specialty elastomeric materials to satisfy the unique sealing needs of customers. The many types of specialty elastomer formulations currently include:

- A-A-59558 (replaced ZZ-R-765) qualified materials
- ASTM materials
- Carboxylated HSN (XHNBR)
- Carboxylated nitriles (XNBR)
- Engineered plastics
- FDA white list materials
- Fungus-resistant materials
- MIL-spec and AMS-spec materials
- NSF Standard 61 and 51
- Perfluorinated materials
- Radiation-resistant materials
- SAE materials
- UHP materials
- UL approved base materials
- USP Class VI materials

Ultra-High Purity (UHP) Process
For semiconductor, healthcare, pharmaceutical and other applications that demand an extra level of cleanliness, we offer ultra-high purity, or UHP processing. Parker UHP processing employs totally enclosed and dedicated manufacturing areas where FKM, FFKM and other products are mixed, tooled, molded, finished, inspected and packaged.
**Chemical Name** | **Abbreviation** | **Temperature Range** | **Characteristics**  
--- | --- | --- | ---  
Acrylonitrile-Butadiene (Nitrile, Buna-N) | NBR, EU | -70°F to 275°F (-57°C to 135°C) | Most widely used polymer in the seal industry. Excellent resistance to petroleum-based fluids, good balance of physical properties and wide temperature range.  
Butyl Rubber (Butyle) | IIR | -75°F to 250°F (-59°C to 121°C) | Low permeability rate and good electrical properties. Often used to seal low temperature vacuum system applications.  
Chloroprene Rubber (Neoprene) | CR | -40°F to 250°F (-40°C to 121°C) | Good general purpose polymer. Exhibits good ozone, aging and chemical resistance—primarily used in refrigerants.  
Ethylene Acrylate | AEM | -40°F to 350°F (-40°C to 177°C) | Similar to polyacrylate with improved low temperature performance, swells more in oil than polyacrylate.  
Ethylene Propylene Rubber | EPDM, EPM, EP, EPR | -65°F to 300°F (-54°C to 149°C) | Widely specified seal material—excellent resistance to alcohols, ketones, brake fluid, skydrol and other phosphate ester based hydraulic fluids.  
Fluorocarbon | FKM, FPM | -15°F to 400°F (-26°C to 204°F) | Second most popular seal material after nitrile. Wide-spectrum chemical resistance and broad temperature range. Some specialty FKM compounds have low temperature static sealing to -40°F (-40°C).  
Fluorosilicone | FVMQ | -100°F to 350°F (-73°C to 177°C) | Combines temperature range of silicone with good resistance to petroleum-based fuels and lubricants. Applications with high heat that are combined with potential exposure to petroleum oils and/or hydrocarbon fuels.  
Hifluor | FKM | -15°F to 400°F (-26°C to 204°F) | Parker’s trade name for a group of intermediate technology materials that bridge the gap between fluorocarbon and perfluoroelastomer.  
Hydrogenated Nitrile | HNBR, HSN | -40°F to 300°F (-40°C to 149°C) | Similar to nitrile with improved high temperature capabilities and ozone resistance. Excellent resistance to petroleum-based fluids.  
Liquid Silicone Rubber | LSR | -175°F to 450°F (-115°C to 232°C) | LSR is mixed as a two-part liquid and is pumped into an injection tool. The material’s low viscosity prior to vulcanization requires a lower mold pressure and shorter vulcanization times compared to conventional injection molding.  
Nylon 6 | PA 6 | -65°F to 250°F (-54°C to 121°C) | Well known family of plastics used as anti-extrusion devices and retainers. Resistant to a variety of petroleum and phosphate ester hydraulic fluids.  
Perfluoroelastomer | FFKM, FFP | 5°F to 608°F (-15°C to 320°C) | Parker’s Parflouro and Parflouro ULTRA materials combine the chemical resistance of PTFE with the elastic properties of fluorocarbon.  
Polyacrylate | ACM | -5°F to 350°F (-21°C to 177°C) | Outstanding resistance to petroleum-based fuels and oils. Good resistance to oxidation, ozone and sunlight—resists flex cracking.  
Polyetheretherketone | PEEK | -80°F to 450°F (-62°C to 232°C) | High-temperature-resistant plastic used where extrusion resistance, high-temperature capability and a broad resistance to chemical environments is needed. Available in unmodified or glass-filled formulations.  
Polytetrafluoroethylene | PTFE | -450°F to 550°F (-268°C to 288°C) | Stable polymer with extremely good resistance to almost all known chemicals. Parker’s proprietary polytetrafluoroethylene material is called Polon®.  
Polyurethane | AU, EU | -40°F to 200°F (-40°C to 93°C) | Tough, abrasion and wear-resistant material, well suited for hydraulic and pneumatic rod or piston applications. Parker’s proprietary materials, Resilon™ and Ultrathan® deliver the best overall sealing performance of all commercial polyurethane formulations.  
Silicone | VQM, PVMQ | -175°F to 450°F (-115°C to 232°C) | Exceptional heat and compression set resistance, good insulating properties, tends to be physiologically neutral and is useful in wide temperature extremes. Relatively poor tensile strength, tear and abrasion resistance.  
Tetrafluoroethylene-Propylene (Aflas®) | TFE/P | 15°F to 450°F (-9°C to 232°C) | High-temperature stability, resistance to broad range of chemicals, including bases, amines, sour gas, hydrocarbon blends and brake fluid. Its poor low temperature flexibility and compression set resistance has limited a more widespread use of the material.  

Aflas® is a registered trademark of Asahi Gass Co., Ltd.
At Parker, our commitment to customer satisfaction doesn’t end with the manufacture and delivery of superior sealing products and materials. It extends to the development of valuable services and support tools that will help you simplify your design and specification experience.

**Applications Engineering Assistance**

Our team of application engineers can help you find the most reliable, cost-effective sealing solution for your application. These engineers are experts, combining decades of experience in real-world sealing with a full complement of technology-driven design tools, including AutoCAD®, Autodesk Inventor®, CATIA®, Solid Works® and others, working to produce the results you need.

**Total InPHorm™**

And for the day to day answers you need, we’ve developed Total InPHorm, a comprehensive software package that brings automated seal design and specification assistance right to your desktop.

**Advanced Computer Simulation**

Utilizing advanced non-linear Finite Element Analysis (FEA) software our engineers can perform extremely accurate virtual simulations of performance based on actual physical test data. These simulations eliminate the need for multiple iterations of costly prototype tooling, and dramatically reduce development lead times. They also ensure first-time selection of the best material and geometry for your application.

**Accredited Material Test Labs**

All of our products are designed, developed and manufactured, using the most advanced in-house compound, engineering, testing and process technology.

Testing the physical properties of our compounds is an integral part of seal compound development, as well quality assurance. Compound purity and identity are crucial prerequisites for product quality and reliability.

Parker chemists develop, analyze and carefully test our materials or modify our existing compounds to expand their application potential, in our ISO 17025 accredited material test labs. Gaining accurate and detailed information about an elastomeric compound involves the use of scientific analytical methods, such as infrared spectroscopy or thermogravimetry.

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**Material Technology**

Our team of skilled chemists, engineers and technicians can offer you assistance with material selection to print specifications and/or functional requirements. We also offer feasibility, process development, and advanced product quality planning, or APQP support. Best of all, we can develop a material solution for you if one doesn’t already exist.

**World-Class Testing**

In our world-class testing labs, we can evaluate a seal’s performance under a variety of physical and environmental conditions. And in our EMC test facilities, we can check your products for compliance with the latest U.S. and European standards.

**Innovative Solutions**

The Parker Seal Group is focused on advancing our market-driven product lines to present our customers with the best seal solutions. Our new product innovation process includes a number of stages, starting with brainstorming product ideas, and continues to the actual product launch. Our customers benefit from our lean thinking and the six sigma analysis tools that we’re applying during the process—ensuring high quality, cost effectiveness and speed to market.

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*Endurance test rig for hydraulic rod seals – measures friction, leakage and wear of a single seal or sealing system.*

*In-house fuel permeation testing paves the way for production of next-generation fuel system sealing components.*
Value Added Services

Systems Made Simple
We don’t just manufacture a few standard seals for a handful of applications. Our products range from standard O-rings and extruded silicone profiles, custom molded shapes to highly complex composite seals, conductive elastomers (for EMI shielding) and thermal management materials. This means we can offer you the best solution for your application and a single source for total systems solutions. And that translates to improved efficiency for you.

Fast Samples and Prototyping
Whether you’re developing a new product, or looking for a solution to a sealing problem in an existing one, it helps to have fast access to material and product choices. Our in-house prototyping and tooling capabilities enable us to turn out new solutions and samples quickly—within hours in some cases.

Assemblies, Subsystems and Kitting
To help you reduce your vendor base and eliminate unnecessary labor costs, we can provide partial or complete assemblies of products for sealing, isolation and other applications. We can also create kits and subkits to your exact specifications, consolidating sealing products, other Parker components and related hardware into one convenient package.

Electronic Ordering
To manage your supply chain efficiently, you need up-to-the-minute information on stock levels and an ordering system that minimizes paperwork. Parker offers state-of-the-art ordering systems like ParZap, PHconnect and PHast, all designed to improve efficiency. Our Par-Zap™ system combines powerful inventory management software with a convenient hand-held scanner, allowing you to place orders directly to your local distributor or Parker Service Center. And our Internet-based EDI capabilities allow you to track your orders in real-time from anywhere in the world.

Anything Possible
Benefit from the power of Parker. Working with the Parker Seal Group gives you access to all of Parker, which is a sizable advantage.

Call 1-800-C-PARKER for more information.
## SEALING & SHIELDING

### Markets
- Aerospace
- Chemical processing
- Consumer
- Energy, oil & gas
- Fluid power
- General industrial
- Information technology
- Life sciences
- Military
- Semiconductor
- Telecommunications
- Transportation

### Products
- Dynamic seals
- Elastomeric o-rings
- EMI shielding
- Extruded & precision-cut, fabricated elastomeric seals
- Homogeneous & inserted elastomeric shapes
- High temperature metal seals
- Metal & plastic retained composite seals
- Thermal management

## CLIMATE CONTROL

### Markets
- Agriculture
- Appliances
- Air conditioning
- Food & beverage
- Life sciences & medical
- Processing
- Precision cooling
- Temperature control
- Transportation

### Products
- Accumulators
- CO₂ controls
- Electronic controllers
- Filter driers
- Hand shut-off valves
- Hose & fittings
- Pressure regulating valves
- Refrigerant distributors
- Safety relief valves
- Solenoid valves
- Thermostatic expansion valves
- Heat exchangers

## ELECTROMECHANICAL

### Markets
- Aerospace
- Factory automation
- Life sciences & medical
- Machine tools
- Packaging machinery
- Paper machinery
- Plastics machinery & converting
- Primary metals
- Semiconductor & electronics
- Textile
- Wire & cable

### Products
- AC/DC drives & systems
- Electric actuators, gantry robots & slides
- Electrohydrostatic actuation systems
- Electromechanical actuation systems
- Human machine interface
- Linear motors
- Stepper motors, servo motors, drives & controls
- Structural extrusions

## FILTRATION

### Markets
- Food & beverage
- Industrial machinery
- Life sciences
- Marine
- Mobile equipment
- Power generation
- Process & controls
- Transportation

### Products
- Analytical gas generators
- Compressed air & gas filters & dryers
- Condition monitoring
- Engine air, fuel & oil filtration & systems
- Hydraulic, lubrication & coolant filters
- Process, chemical, water & microfiltration filters
- Nitrogen, hydrogen & zero air generators

## FLUID & GAS HANDLING

### Markets
- Aerospace
- Agriculture
- Bulk chemical handling
- Construction machinery
- Food & beverage
- Fuel & gas delivery
- Industrial machinery
- Mobile
- Oil & gas
- Transportation
- Welding

### Products
- Brass fittings & valves
- Diagnostic equipment
- Fluid conveyance systems
- Industrial hose
- PTFE & PFA hose, tubing & plastic fittings
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects

## HYDRAULICS

### Markets
- Aerospace
- Agronomy
- Agriculture
- Construction machinery
- Forestry
- Industrial machinery
- Mining
- Oil & gas
- Power generation & energy
- Power transmission & electrical

### Products
- Diagnostic equipment
- Hydraulic cylinders & accumulators
- Hydraulic motors & pumps
- Hydraulic systems
- Hydraulic valves & controls
- Power take-offs
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects

## PNEUMATICS

### Markets
- Aerospace
- Aerospace & defense
- Chemical & refining
- Factory automation
- Life sciences & medical
- Machine tools
- Packaging machinery
- Transportation & automotive

### Products
- Air preparation
- Brass fittings & valves
- Manifolds
- Pneumatic accessories
- Pneumatic actuators & grippers
- Pneumatic valves & controls
- Quick disconnects
- Rotary actuators
- Rubber & thermoplastic hose & couplings
- Structural extrusions
- Thermoplastic tubing & fittings
- Vacuum generators, cups & sensors

## PROCESS CONTROL

### Markets
- Chemical & refining
- Food & beverage & dairy
- Medical & dental
- Microelectronics
- Oil & gas
- Power generation

### Products
- Analytical sample conditioning products & systems
- Fluoropolymer chemical delivery fittings, valves & pumps
- High purity gas delivery fittings, valves & regulators
- Instrumentation fittings, valves & regulators
- Chemical injection fittings & valves
- Process control manifolds
- Solenoid valves
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Our regional sales offices and local distributors are located around the globe.

Please visit www.parkerseals.com to locate the sales office, or distributor near you.

www.parkerseals.com

Your local Parker Seal Group authorized distributor:

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