

## Static and Dynamic Sealing Technologies

The Hope Group proudly represents Parker's technically advanced sealing devices, which are manufactured to withstand tight tolerances, higher temperatures, and aggressive chemistries.

### O-Rings



O-Rings are available in all AS568 inch sizes and a wide range of metric sizes, as well as custom sizes. Parker O-Rings can be molded in a wide range of elastomer compounds ranging from basic neoprene to perfluorinated materials called Parafluor and Parofluor ULTRA.

#### Accessories

- Extraction Tools
- Kits
- Lubricants
- Measuring Cone

#### Coatings & Markings

- Color Coded Elastomers
- External Markings
- Internal/External Lubrications

#### Materials

- Butyl
- Ethylene Propylene
- Fluorocarbon
- Fluorosilicone
- Hifluor
- Neoprene
- Nitrile
- Perfluoroelastomer
- Polyurethane
- Silicone

### Composite Sealing



Rubber-to-metal and rubber-to-plastic seals and gaskets allow for the integration of multiple components with unique sealing geometries, which provide ease of assembly for use as sealing washers, fastener seals, pipe flange seals and door seals.

#### Active Runner Intake Manifold Valves

- Charge Motion Control Valve (CMCV)
- Short Runner Valve (SRV)

#### Bonded Piston Seals

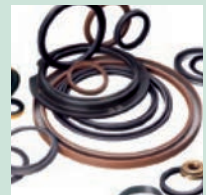
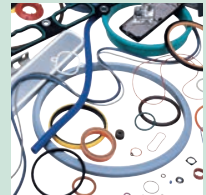
#### Carrier Gaskets

#### Fastener and Fitting Seals

- Lock-O-Seal®
- Stat-O-Seal®
- ThredSeal™

#### Molded Seals

- Gask-O-Seal®
- Integral Seals™

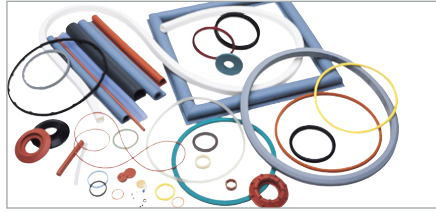


# Seals & O-Rings Line Card

## The Hope Group Provides Highly Engineered Motion Control Sealing Solutions

Our partnership with Parker over the past six decades has seen continuous improvement in providing motion and control sealing solutions for industry. Parker's engineered sealing solutions are technologically advanced sealing devices designed from materials that can keep pace with tighter tolerances, higher temperatures, and more aggressive chemistries.

## Extrusions & Lathe Cuts



Extruded and spliced seals are made utilizing a hot vulcanization process to provide spliced rings and custom gaskets from either standard or custom cross-sectional profiles. Applications include low-closure force seals, large diameter profiles that cannot be molded or large diameter profiles.

### Non-Sealing

- Bumpers
- Grips
- Pills
- Rollers
- Sleeves
- Tubing

### ParFab Extruded Profiles

- Spliced rings
- 4-corner "picture frame" gaskets
- Hollow and solid rings/gaskets

### ParFab Spliced/Fabricated

### Standard and Custom Lathe-Cuts

- Double chamfers
- D-Rings
- L-Gaskets
- L-Seals
- Short lips seals
- TetraSeal® circular lathe cut seals
- U-Sections
- V-Seals

## Medical Components



The Parker medical division focuses on products for medical devices such as intravenous equipment, drug infusion pumps, masks, septums, respirator hoses, catheters, diaphragms, and other medical grade extrusions. Parker manufactures components using compression injection and flashless injection molding in class 10,000 and class 100,000 clean rooms.

### Silicone Medical Device Assemblies

- Catheters
- Nasal airways with single & dual balloons

### Single and Multi Lumen Tubing

- Color coded tubing & rods
- Custom and standard sizes
- Medical grade silicone
- Profiled tubing & rods
- Single and multi-line tubing
- Wire-reinforced tubing
- X-ray striped & X-ray opaque tubing

### Thermoplastic & TPE Molding

- ABS, Acetal, Acrylic, Carbon fiber composites, EVA, LCP, Nylons including glass filled, PEEK, Polycarbonate, Polyetherimide (PEI), Polypropylene, Polystyrene, PTFE, PVC, Thermoplastic elastomers to 5 shore A

## Metal Seals



Metal seals are manufactured in a wide range of base materials and platings. They are ideal for high temperature, high vacuum, broad chemical resistance and low extractable applications.

### EnerRing high-pressure/high-temperature (HPHT) dynamic seals

### Seals and Gaskets

- AS1895 E-Seals
- MS 9141 and 9142 O-Rings
- O, C, E, U and V sections

### Metal Jacketed Gaskets

### Corrugated Gaskets

### Flat Metal Gaskets

## Molded Shapes



Custom molded or machined seals are available in a virtually infinite range of shapes and cross-sections. Parker's custom seals are designed to work as individual components or in combination with other sealing products in a system.

### Custom Seals

- Aerosol valve seals
- Balls
- Bellows
- Connector seals
- D-Rings
- Diamond seals
- Diaphragms and directional valve seals
- Dovetail retrofit EZ-Lok™ and WEAR-Lok™
- Filter seals
- Four-lobed rings
- Grommets
- H-seal
- Lip seals
- Over-molded seals and sub-assemblies
- Packer elements
- Press-in-place seals
- Turbine shaft seals
- Umbrella valve
- Wire connector boots

## Gaskets



Made from a wide variety of material, gaskets typify the compression-sealing method, where they are installed between two surfaces and pressure from bolting or clamping provides the sealing force, such as lathe cut gaskets, square cut gaskets, and bi-laminate seals.

### Carrier Gaskets

- Air breathers
- Die cut gaskets
- Engine cam covers
- Engine intake
- Hydraulic filters
- Oil cooler
- Oil pan
- Throttle body
- Transmission filter

### Homogenous Rubber Gaskets

- Cam Cover sealing
- Front Cover sealing
- Intake Manifold sealing
- Oil Pan sealing

## Rotary Shaft Seals



Rotary shaft seals provide sealing and wiping functionality for rotating and swiveling movements under low pressure and high velocity. They retain the bearing or system lubricant in the system to avoid leakage, and they preclude any contamination of the system by external particles or other environmental impacts.

### High Speed Shaft Seals

- Metal-retained FlexiCase
- Single, double and triple lip

### ProTech Bearing Isolators

- Flanged
- Multi-port
- Narrow
- Non-Flanged
- Pillow block
- Split
- Step shaft

### Rotary Shaft Oil Seals

- Excluder
- Factory split
- Molded-in spring
- Single, double and triple lip
- With and without springs
- With scraper, flat and dual lips

## Wide Range of Products

O-rings, seals, and gaskets from Parker range from standard configurations, extruded silicone profiles, and custom molded shapes to highly complex composite seals, and metal seals for extreme application environments. Precision plastic and elastomeric components are used in a wide variety of medical devices, too.

## Wide Range of Materials

To optimize performance, Parker utilizes a mixture of base polymer and specific blends of chemical ingredients tailored for particular required characteristics. Many Parker seals are composite products, fully utilizing the unique properties of elastomer, polymer, metal or ceramic materials, in resourceful and innovative combinations.

## Highly Engineered Design

Parker has a strong reputation for providing innovative solutions through its commitment to application engineering technology. Utilizing advanced non-linear Finite Element Analysis (FEA) software its engineers can perform extremely accurate virtual simulations to determine optimum geometry based on specific compound test data.

## PTFE



Where media purity and tolerance to high temperature is a high priority, the PTFE sealing product from Parker is ideal for applications such as analytical instrumentation, fluid handling, food & beverage, medical, pharmaceutical, semiconductor, ultra-pure water and solar products.

FlexiSeal® Face Seal

FlexiSeal® Rod & Piston

FlexiCase™ & FlexiLip™ Rotary Seals

FlexiSeal® Rotary Seal

Polon® PTFE Seals

PTFE Fluid Power Seals

## Packings



The packing product offering is designed for the most demanding market applications. Parker is positioned to offer optimum system solutions by maintaining the widest range of quality packing product profiles.

Piston Seals

- ChemCast piston seals
- Integrated pistons

Polypak Seals

Rod Seals

T-Seals

U- Cup Seals

Wear Rings and Bearings

Wipers and Scrapers

V-Packings

## Sanitary Gaskets



Compression controlled gaskets, such as the new Parker hygienic sanitary gasket, offers long-term seal-ability, excellent wear performance, complete material traceability and easy installation. The gasket meets ASME-BPE hygienic clamp unions with a nearly flush interface.

Materials

- Ethylene propylene USP Class VI (EPDM) / white
- Fluorocarbon (FKM) / Black
- Nitrile (nbr) / Black
- Silicone (VQM) / Rust

Sizes

- 1/4" through 6"

Assembly Tools

- i-logic™ endcaps
- i-torquer™ wrench
- Slotted sanitary clamp

Automation  
Compressed Air  
Hose & Fittings  
Hydraulics  
Instrumentation  
Seals & O-Rings

**Ron Cook**  
Seal Business Unit Mgr.  
Direct: 508-351-1806  
Cell: 508-769-1419  
RCook@TheHopeGroup.com