Composite Sealing Systems Division (CSS)

GASK-O-SEALS
For the most demanding sealing applications, Parker CSS offers the Gask-O-Seat technology. Gask-O-Seals are metal, plastic, or composite retainers with a machined groove in the retainer plate into which a custom engineered rubber element is molded. The elastomer seal may be mechanically and/or chemically bonded to create a dependable, responsive seal for flat or curved surfaces. With a 20,000 psi pressure capability, Gask-O-Seals are typically used in applications requiring extreme reliability, longevity, and durability.

INTEGRAL SEALS
Integral seals eliminate the need for a machined groove in the mating sealing flanges. The seal is kept in place by mechanically and/or chemically bonding the elastomer to a frame edge that is separate from the flange. Integral seals can be molded to very thin retainers allowing them the flexibility to conform to mating surfaces. Some key advantages to using an integral seal are easy installation, low closure force, and no changes to mating hardware.

METAL SEALS
When sealing requirements exceed the capabilities of elastomeric seals, resilient metal seals are often the solution. Parker CSS’s resilient metal seals can be formed in a variety of shapes and cross sections to meet the demands of even the most extreme sealing applications. The high performance metal alloys from which these seals are formed can handle a wide range of temperatures and pressures and eliminate the problems with outgassing and permeation associated with elastomeric seals. Additionally, soft metals – such as tin, silver and gold – can be plated onto the metal surface to further enhance sealing performance.

FABRIC REINFORCED
Reinforcing an elastomer with fabric increases the durability and longevity of a part along with added flame and abrasion resistance. Parker CSS division provides industry leading fire resistance, thermal management and light weight components using fabric coated or infused rubber technology. A few examples of these parts are diaphragms, bellow joints, duct seals, p-bulbs and omega seals.

FRAC BALLS
Frac balls from Parker CSS are designed to perform in the harsh, demanding fracking environment. With multiple advanced materials and high-performance properties to choose from, Parker CSS frac balls are developed to meet precise application needs and are supported by consistent manufacturing, rigid quality control procedures and testing to meet specified requirements.

FASTENER SEALS
Fastener and fitting seals provide reliable static sealing for screws, bolts, tube fittings, and other fasteners. Stat-O-Seals are typically used for sealing under the heads of bolts and similar fasteners. ThreadSeals support sealing around the thread roots of any threaded fastener. Lock-O-Seals are designed for sealing tube fitting bosses. Furthermore, Parker CSS’s “splined and coined” mechanical bond offers an alternative method for attaching rubber to the retainer thus eliminating loose seal elements associated with bonded seals.
SEALING SYSTEMS
Parker CSS can offer customized sealing system solutions that lessen your engineering burden, reduce total cost, and improve operating efficiency. A sealing system consists of our metal, rubber, and/or composite seals mated with system components such as flanges, clamps, connectors, valve bodies, etc. to create a complete sealing system. We can offer a range of sealing options from kitting to simple and complex multi-component systems. Parker takes ownership of the entire process including design, analysis, qualification, production, assembly and testing.

QUALITY STANDARDS
At Parker CSS quality is so much more than just inspecting finished goods before they leave the door. Combining talented employees using a capable process to create robust products. Those three factors allow CSS to deliver quality sealing solutions and premier customer experience. It is our goal as a division to shift from detecting defects in parts to focus on process control and prevent those defects from ever happening.

Quality Certifications:
- ISO 9001
- ISO 16949
- ISO 13485
- ISO 17025
- ISO 14001
- TS16949
- AS9100
- AS7115
- NADCAP

In an effort to provide the best customer service possible Parker CSS Division has launched a live chat system that gives you instant access to customer service and engineering help from our web page www.parker.com/css.