

# Compression Limited ParFab™ Gaskets



Photo Courtesy of US Army

## Customer Value Proposition:

Parker's Compression Limited ParFab Gaskets are extruded and spliced seals containing ridged grommets that limit compression during assembly. The grommets are positioned to accommodate existing bolts/studs in the application and act as a "hard-stop" for the mating components. These limiters prevent over compression which often causes major damage to the integrity of the seal. Utilizing Parker's patent pending compression limited gaskets can reduce maintenance costs associated with retorquing and eventually replacing gaskets in service. Also, installation is much faster compared to on-site gasket fabrication, saving time and money in your assembly process.



## Contact Information:

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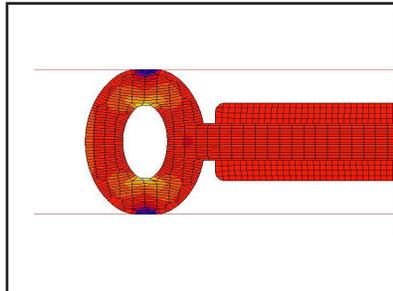


## Product Features:

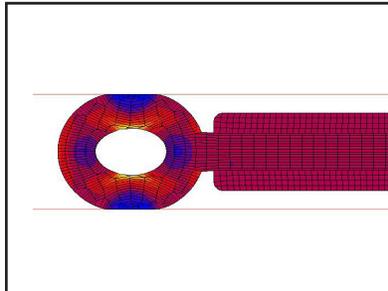
- Torque limiters eliminate over compression of gaskets
- Stainless steel torque limiters are mechanically fastened into extrusion for added rigidity
- Limiters can be easily sized to specific bolt diameters
- Gaskets can be manufactured in large, complex configurations
- Hollow construction allows for low closure force
- Manufactured from most polymer families
- Vulcanized corner splices
- Minimal tooling costs
- Short lead times

ENGINEERING YOUR SUCCESS.

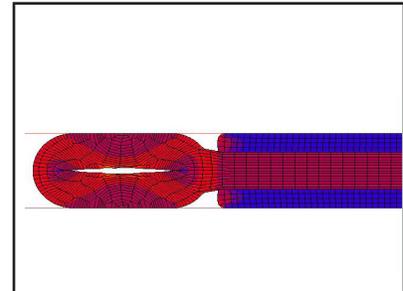
# Seal Over Compression



Uncompressed Gasket



Slightly Compressed Gasket



Fully Compressed Gasket

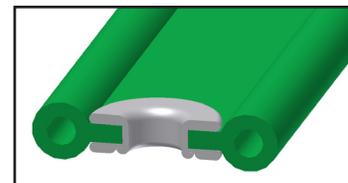
Parker's extruded and spliced process provides an optimal solution for very large gaskets that are extremely difficult to mold. Gaskets can be fabricated in both solid and hollow custom configurations. The flexibility of the gasket provides excellent sealing capabilities on contoured or uneven surfaces.

The versatility of the extrusion process allows the option for multiple seal configurations which can be manufactured in long lengths permitting an unlimited spliced gasket size range.

Conventional gaskets are designed and manufactured to seal with mating components (such as access covers) that limit the amount of squeeze seen by the gasket. Often, these "hard stops" are not properly designed, or nonexistent, and result in gaskets being over compressed.

Over compression of gaskets and seals can lead to adverse effects such as increased compression sets, tearing, increased aging, and added stress to spliced joints. Parker TechSeal's Compression Limited

ParFab Gaskets drastically reduce the chances of over compression by utilizing torque limiters throughout the gasket surface. These limiters can be easily sized to most standard bolt sizes and are mechanically pressed into the gasket for added rigidity.



## Application Engineering

Our application engineers are available to assist in the design of optimal hollow compression limited gaskets for both existing and conceptual applications. Finite Element Analysis (FEA) can be used to predict seal behavior in specific applications. Seal closure force obtained from FEA can be utilized for optimal design of mating components of the assembly.