

Carrier Gaskets

A variety of materials and design options



Seal Multiple Fluids with Carrier Gaskets

Parker's controlled compression carrier gaskets will improve system performance, simplify assembly and lower your total system costs. The over-molded composite carrier design incorporates single or multiple elastomers on one gasket.

A variety of value added features can be incorporated (i.e. wire connections, filter media, air flow regulator features and metering orifices) into a one-piece design, reducing system components and simplifying product design. Logos, part numbers, installation tabs and position locators can be added to the face of the gasket for error proof assembly. Torque limiters can be designed into the gasket system to ensure the proper amount of bolt retention through the life of the application



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Typical Applications:

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

Benefits:

- Ease of installation
- Cost effective
- Automation friendly
- Value added features
- Serviceability
- Long life in aggressive environments



ENGINEERING YOUR SUCCESS.



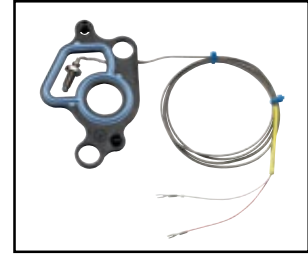
Hydraulic filter end cap provides directed flow while sealing inlet and outlet fluid paths under high pressure conditions. The outer ring seal is designed to seal on an angled enclosed surface.



To regulate air flow and control noise levels, air deflector mechanisms can be a value added feature fit for many markets.



Poly screen, paper and other filter media can be added into carrier seals to provide protection in a variety of applications.



Wire connections can be molded into the composite gasket integrating sensor lead wires, eliminating additional compression style connectors.

Parker offers a variety of materials and bead designs for carrier gaskets. Our unique process can be applied to any plastic to rubber application, allowing easy integration of multiple parts into a single unit. Actual application design is dependant on material and system needs, our team of engineers will work with you to ensure the most effective and cost efficient material and configuration for your application.

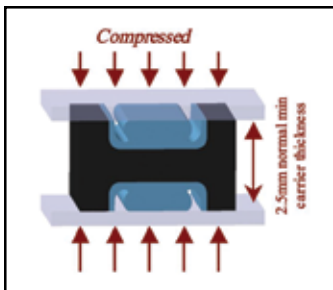


Off-Set Volume Void

Off-set volume void bead design offers added flexibility in misaligned mating component environments. We offer two bead design options to meet these needs; off-set channel and off-set bead.

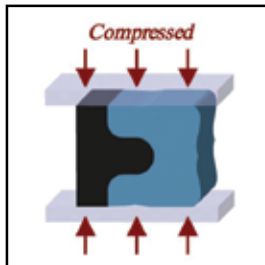
Single Bead Volume Void

Single bead volume void bead designs are ideal for static face seal needs.



Volume Void

Volume void carrier gaskets are designed for hard joint mating components that will be in full contact when assembled. The bead reduces fluid exposure and increases overall seal life. These gaskets can be plastic (polyamide nylon 6/6, with 20 to 35% glass reinforcement) or aluminum (typ. 3003-H14 or 5052). Note, galvanic corrosion potential must be considered with metal-to-metal joints.



Edge Bonded

Edge bonded carrier gaskets can be plastic (polyamide nylon 6/6, with 20 to 35% glass reinforcement), aluminum (3003-H14 or 5052) and low carbon

steel such as C1010 or C1008. Note, galvanic corrosion potential must be considered with metal to metal joints.

Typically carrier thickness can be as thin as 2.5mm for plastic, 1.2mm for aluminum and 1mm for steel.

Edge bonded carrier design is characterized by more exposure of the seal bead used to the media being sealed. The design is commonly used to seal ambient to positive pressure applications where pressure will energize the seal. Edge bonded gaskets are not recommended for isolated sealing.

Off-Center Edge Bonded

Off-center edge bonded bead designs offers added flexibility in misaligned mating component environments.

