



Darcoid works with Parker that does precision extrusion and spliced products that offer an ideal, cost-effective sealing solution for many applications. These include low-closure force seals, large diameter profiles that cannot be molded, hollow cross-section cord or requirements for non-standard O-rings and other extruded profiles with an inside diameter larger than 2.500 inches.

If you require efficient, reliable seals for light-weight enclosures with minimal bolts, fasteners or latches in combination with thin sheet metal or plastic flanges, consider LCF Seals. LCF Seals can drastically reduce the amount of closure force (compression) and the resulting stress generated on the sealed components. Hollow Cross-Sectional Seals offer the seal designer and user a low-closure-force sealing solution for many applications. LCF Seals may be supplied as either:

- Long Length Extrusions • Spliced Rings/Gaskets • Cut to Length Extrusions

To date, the most common method for reducing closure force has been to reduce the Shore hardness of the elastomeric seal material or change to a foam-type of material. The best method to achieve a dramatic reduction in closure-force is to change from a solid to a hollow cross-sectional profile without lowering the durometer hardness. Controlling wall thickness is the key to lowering the lbs/in compression force required.

Size Capability - Cross-sections: .040" to 1.00", Spliced I.D.: 2.500" and larger

Materials : Silicone, Fluorosilicone, EDPM, Fluorocarbon, Nitrile (Durometer range from 40 to 90 Shore A)

Target Markets and Potential Applications

- Outdoor Electronics & Communications Enclosures
- Electronic Equipment Transit Cases
- Handheld Electronics & Communication Devices
- Semiconductor Applications
- Power Generation Plants
- Low-closure Force Sealing Requirements
- Automotive Applications
- Non-Standard O-rings & Hollow O-rings with I.D.'s greater than 2.500"

Features and Advantages of Spliced Products

- Superior hot vulcanization capability (High bond integrity).

- No tooling required for standard O.D. / I.D. combinations.
- Exclusive use of quality, sealing-grade materials.
- Ease of adjusting closure force by adjustment of cross-section design, C/S I.D. or Durometer.
- Hollow cross-sections are excellent replacements for foam or sponge gaskets, offering superior compression set resistance.
- Interference-fit designs with asymmetrical solid or hollow cross-sections for ease of assembly in seal grooves without adhesives or mechanical retainers.
- Low-cost option for static face or radial face seal O-rings over 2.500" I.D.
- Can be used in non-standard grooves.