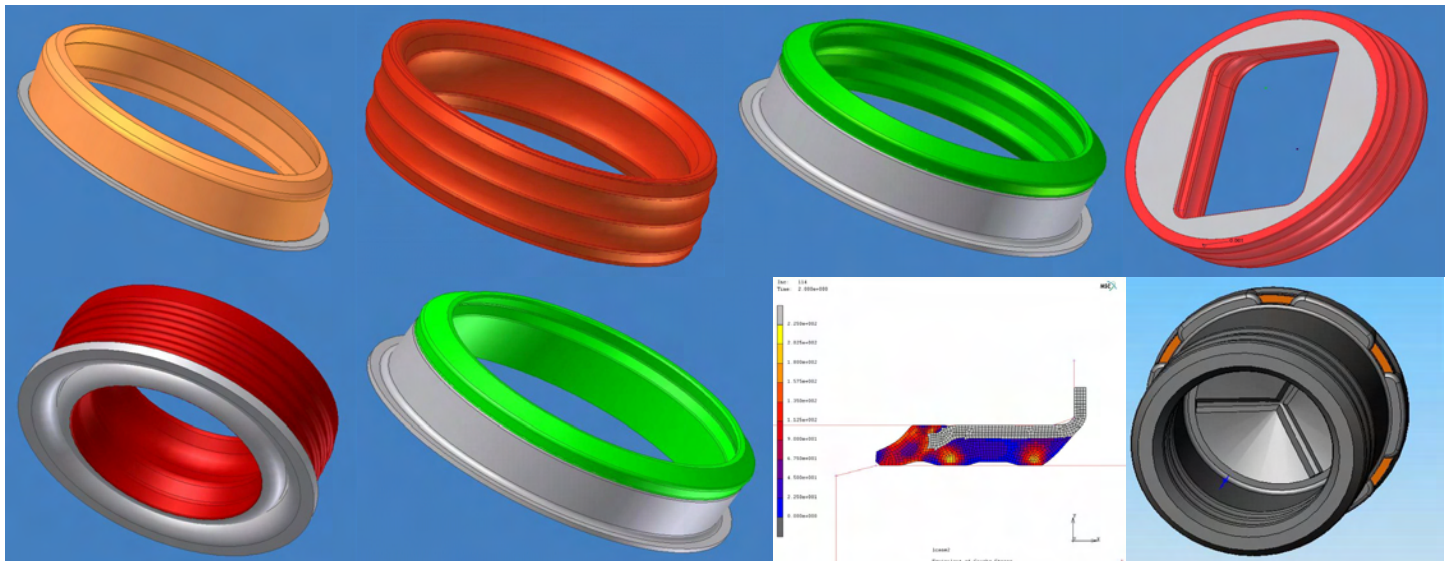


Application:

Tube seals for fluid & gas applications under positive or negative pressure (Pressure or Vacuum).

Problem:

Sealing of joints between tubes & bore housings historically has been accomplished by using conventional compression seals. The previous seal option has only one seal contact point which is not self energizing & is entirely dependant on rubber compression. Previous seal options can twist in the application groove during installation of the tube & they typically require a groove to be added to either the tube OD or the bore ID which adds cost to the application hardware..



Solution:

Parker-ESD tube seals can offer multiple contact points for added sealing capability, and there is no need for a groove in the application. This type of seal concept can use compression beads, self energizing sealing lips or a combination of these technologies. The flexible sealing lip technology allows seal to function during extreme tube OD to bore misalignment.

Most tube seal concepts have an over-molded metal insert to provide some structural integrity. With some configurations, this metal insert can also function as an integral back-up support ring for extreme pressure applications. Tube seals are available in various material options to meet your application temperature & fluid compatibility requirements. Typical application pressures range up to approximately 250 PSI, but with integral seal back-up ring, application pressures up to 3000 PSI are possible. Tube seals can also be equipped with an integral break-away membrane to allow seal to act as a dual purpose seal. This type of seal can function as a shipping plug prior to installing the tube & then perform the final sealing function when tube is inserted. The tube punctures the membrane & it folds neatly out of the way.

Similar Applications:

Parker-ESD tube seals are used in a wide variety of automotive, agricultural, & industrial applications such as coolant lines, filter neck seals, fill tubes, turbo charger pipes, fluid transfer, etc.