ORD Problem Solved!

Cleaning for O_2 Service

Oxygen cleaning is a post operative process that removes organic and inorganic contaminants from O-rings, preparing them to effectively be used in applications with pure oxygen environments. This is a crucial requirement found primarily in the aerospace and life sciences industries. Without oxygen cleaning, contaminants may reside on the surface of an O-ring, potentially causing a fire or explosion. For more information on Parker's post operative processes and pricing, please contact an O-Ring Division customer service representative at 859-269-2351.

Success Story

Application:
O-rings for aircraft oxygen delivery system.

Problem:
Customer uses O-rings in a pure oxygen environment, where any surface contamination could result in a fire. After cleaning, the O-rings needed to be coated with an oxygen-rated lubricant and individually packaged prior to use. The customer had been purchasing O-rings and cleaning them in-house, but this resulted in large raw material WIP and high labor costs. Because their equipment was designed to wash metal components, it was not well suited for handling rubber O-rings. This resulted in ineffective cleaning and damaged O-rings.

Parker Solution:
Parker provided O-rings that had already been specially cleaned, lubricated, individually packaged, and tested for use in a pure oxygen environment.

Outcome:
By purchasing pre-cleaned O-rings from Parker, the customer was able to eliminate the cleaning and lubricating process steps necessary to make the O-rings usable. In addition to the labor savings, they were able to shorten their manufacturing process time by several days without adding a vendor to their approved base. In addition, this eliminated the raw material scrap caused when O-rings were damaged during the cleaning operation.