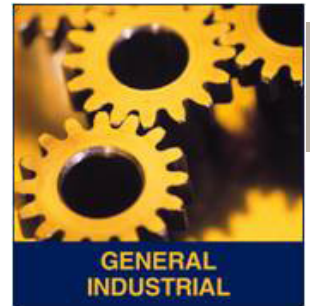


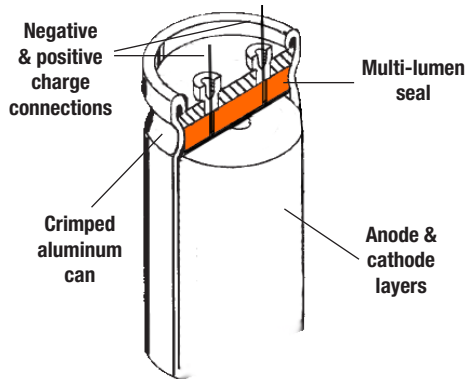
# Problem Solved!



## TECHSEAL INNOVATIONS - MULTI-LUMEN (DUAL ID) SEALS

### Application

Electrolytic capacitors in a heating element for an electric heater.



(The images above are only illustrative, not representative of the actual application.)

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**FEATURED PRODUCTS:** A collection of multi-lumen (dual ID) seals

### Problem

For a long time, a customer in the capacitor manufacturing business had been buying single-ID seals from TechSeal. At the time, this customer was producing capacitors that had the positive and negative charge

connections each coming out from the opposite end of the capacitor. Then, the customer changed the technology and switched to manufacturing capacitors with charge connections both coming out from one end (as illustrated above).

For the new capacitor technology, the customer was evaluating between a set of two single-ID seals and a custom molded solution. TechSeal adapted to the customer's change and recommended multi-lumen seals.

### Parker Solution

The multi-lumen seals are seals with dual IDs and typically used for applications that require two components such as cords or wires to go through the seals. In this case, the two positive and negative connections extended from the anode and cathode layers and through the two IDs of the seal. Furthermore, TechSeal's application engineers selected a silicone compound for this customer's specific applications because silicone materials exhibit a larger spectrum of temperature capability as well as have excellent resistance to electricity and non-hydrocarbon based fluids.

The multi-lumen seal sealed right at the crimped part of the capacitor shell and protected the electrolytic components from damage and contamination. This custom solution was more cost effective than other rubber molded alternatives and saved the customer from having to install two separate single-ID seals in one capacitor.

The graphic above represents some of the custom multi-lumen seals that TechSeal has produced. TechSeal's application engineers can assist with designing the optimal multi-lumen sealing solutions for your applications.

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TECHSEAL\_MULTI-LUMEN (DUAL ID)  
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