

For Immediate Release  
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### **Improved Quality of DC Contactors for the Hydraulic Industry**

A hydraulics manufacturer was experiencing several problems with their DC contactors on their hydraulic motor applications. One problem they experienced was water corrosion to the DC contactor; they could not find a DC contactor in the market that was completely sealed that could withstand submersion in water. Another problem they faced was quality. They were experiencing inconsistent quality issues with all manufacturers of DC contactors. Lastly, this manufacturer saw that their applications were becoming more demanding, which impacted the DC contactor. The contactors could not withstand the high inrush currents that were being generated from their hydraulic motors.

Trombetta then demonstrated engineering support and expertise by building a product to solve this hydraulics manufacturer's problems. First Trombetta's sales and engineering staff did research in a variety of hydraulic motor applications. They found there was a need for a product with the electrical performance equal to or preferably exceeding that of the metal DC contactors with the corrosion resistance and the sealing level of the plastic DC contactors. Secondly, this robust electrical performance, along with being environmentally resistant was to be combined in one cost effective package. The conclusion was the development of the PowerSeal, a product with higher inrush, carry and interrupt current capabilities and sealing level that meets the International Electrotechnical Commission (IEC) ratings. The design also improved other performance areas that include increased max on time, pull in hold performance at extreme temperatures and interrupt current capabilities. These areas were defined through application research and customer dialogue in advance of the product development.

Once the performance requirements were set, evaluating Trombetta's existing product lines identified critical DC contactor design features. The specifics included providing a low millivolt drop across the high current contacts and a housing that was sealed against moisture and corrosion resistant. Each of these features was key in making the PowerSeal a successful design.

With the development of the PowerSeal this customer improved on several major issues. The quality and water corrosion issues were reduced which in turn reduced their warranty costs. With the higher inrush capabilities, the PowerSeal could handle harsher applications which lead to less downtime on the hydraulic applications. This customer also reduced their part numbers and hardware variations by only having to purchase one DC contactor for all of their applications.

13901 Main Street  
Menomonee Falls  
Wisconsin 53051  
p 262/251-5454  
f 262/251-5757

Based in Menomonee Falls, Wisconsin, Trombetta has been a leading manufacturer of industrial work solenoids, DC contactors, electronic controls and engineering services for over seventy years.

For more information call (262) 251-5454 or visit [www.Trombetta.com](http://www.Trombetta.com)

Media Contact:  
Stacy Wessell, Marketing Coordinator  
P: 1.262.251.5454  
F: 262.251.5757  
E: [swessell@trombetta.com](mailto:swessell@trombetta.com)

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Menomonee Falls  
Wisconsin 53051  
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f 262/251-5757

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