

VALVE BODY SUPER WRAP WITH BELZONA 1984

ID: 10129

Industry: Power
 Application: VPF-Valves, Pipes and Fittings
 Substrate: Carbon steel
 Products: Belzona 1161 (Super UW-Metal), Belzona 1984, Belzona SuperWrap II

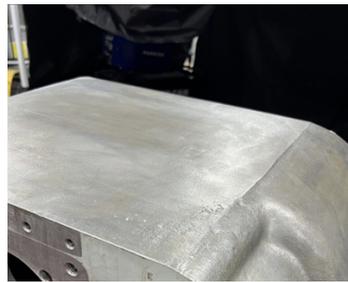
Customer Location: FLORENCE, AL
 Application Date: March 2025

Problem

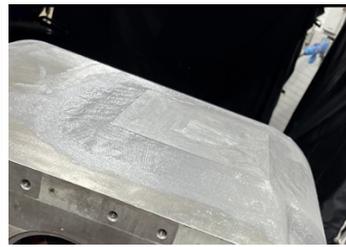
THE VALVE BODY RUNS AT OVER 1000 PSI AND UNDER YEARS OF STRESS CREATED A HAI LINE CRACK IN THE TOP OF THE VALVE BODY. THE ITEM IS OBSOLETE AND CAN NOT BE REPLACE EASILY.



THIS PHOTO IS BEFORE WE MADE ANY REPAIRS TO THE VALVE BODY.



IN THIS PHOTO WE PREPPED THE SURFACE AREA USING MEK TO REMOVE ANY OILS FOLLOWED BY HEATING THE SURFACE AREA TO REMOVE ANY OILS THAT HAD BEEN ABSORBED IN THE METAL. FOLLOWED UP WITH A BRISTLE BLATER FOR A 3MIL PROFILE.



THIS PHOTO SHOWS HOW WE USED A PLATE AND BELZONA 1161 TO COLD BOND PLATE OVER THE HAIR LINE CRACK BEFORE ADDING THE SUPER WRAP.



FINAL PHOTO SHOWS HOW WE WRAPPED THE ENTIRE VALVE BODY USING BELZONA 1984 AND CARBON FIBER SUPER WRAP. WE APPLIED 6 WRAPS TO THIS APPLICATION FOLLOWED BY BELZONA 9382 RELEASE FILM TO COMPRESS THE WRAPS AND 1984.

Application Situation

THE COST SAVINGS OF THIS PARTICULAR APPLICATION WAS SUBSTANTIAL TO THE CLIENT. THIS ITEM WAS OBSOLETE AND COULD NOT BE FOUND TO PURCHASE. HAD WE NOT BEEN ABLE TO SAVE THIS ITEM THE CLIENT WOULD HAVE HAD TO SEND THIS OFF TO SEE IF THEY COULD HAVE ONE MADE.

Application Method

THIS APPLICATION TOOK SEVERAL DAYS TO COMPLETE. WE PLANNED FOR THIS PROJECT FOR ALMOST A MONTH BEFORE STARTING THE REPAIR PROCESS. ONCE WE STARTED WE FIRST BEGAN BY USIMNG MEK TO REMOVE OILS, DIRT AND DEBRIS FROM THE SURFACE. FOLLOWED BY HEATING THE SURFACE AREA TO SWEAT OUT ANY REMAINING OILS THAT HAD BEEN ABSORBED IN THE METAL. THEN WE USED A BRISTLE BLASTER TO ACHIEVE A 3 MIL SURFACE PROFILE. THEN WE MADE A COLD BOND PLATE USING BELZONA 1161. THEN APPLYING SIX BELZONA SUPER WRAPS USING 1984 TO ENCAPSULATE THE ENTIRE VALVE BODY.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015
 FS 695214
 ISO 14001:2015
 EMS 695213

Belzona products are
 manufactured under an ISO
 9000 Registered Quality
 Management System.

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THE CLIENT HAS REQUESTED A SIX MONTH EVALUATION ON THIS REPAIR OVER THE NEXT TWO YEARS.

Belzona Facts

COST SAVINGS FOR THE CLIENT WAS OVER \$100,000 FOR THE VALVE BODY ALONE PLUS ALL THE DOWN TIME THAT THEY WOULD HAVE OCCURRED WAITING ON A NEW VALVE BODY TO BE MADE. THEY CHOSE BELZONA DUE TO OUR PAST HISTORY WITH THEM AND UNDERSTANDING HOW THE PRODUCT WORKS AND ITS RELIABILITY.

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