

# GENERAL VALVE® Bonding with Integrity



## GENERAL VALVE® BONDING WITH INTEGRITY

### THE CAMERON "BOND SHOP"



Cameron is the Worlds' leading manufacturer of high integrity, positive shut-off Double Block and Bleed expanding plug valves which serve the pipeline, liquid bulk terminals, aviation and military fueling, refining, oil and gas production markets and custody transfer requirements for the petroleum, oil and gas industries.

#### "In House Expertise"

Introduced in 1941, GENERAL VALVE® Twin Seal™ valves were the first to meet the rigid requirements of Double Block and Bleed service – more than 65 years ago. In the ensuing years subtle yet significant design refinements have been made to enhance the valve's performance. Throughout the Twin Seal's operational existence its proven reliability and longevity in service is due in the most part to the integrity of the elastomer bond to metal substrate of the seating slip. The importance of being able to control the quality of this process was recognized very early in the production of the Twin Seal, since it is on this process that the entire sealing integrity of the valve exists. This led to the decision which remains in place to this day, that slip bonding will always be carried out as an "In House" process using our own design of these molds, presses and tooling. Cameron does not manufacture slips for any other valve company.

#### Slip Bonding Process

The meticulous control of quality within the Cameron "Bond Shop" through cleanliness and the creation of our own unique bonding agents ensures that each slip produced will provide the maximum possible life in service.

The "Bond Shop" stores the 16 different elastomers that are necessary, for Cameron to meet the different process conditions that are encountered, in atmospherically and temperature controlled cabinets to ensure the maximum shelf life of the materials. Machined slip castings are heated and shot blasted prior to the application of the bonding agent. The selected elastomer is then cut and placed in the mold prior to undergoing the bonding process in a heated press. Once the bond has taken place the final product is then trimmed, Manganese Phosphate coated, and inspected prior to being released for production.

#### Recent Cameron Investment

As a part of a multi-million dollar renovation and expansion project at the Little Rock, USA plant, Cameron has invested in tooling, equipment and enhancements directly related to the in-house bonding process. Our customers can rest assured that when they own a GENERAL VALVE product the seal integrity within will be of the finest quality and will provide the longest possible operational service.

#### The Cameron "Bond Shop" Highlights

Over 65 years of slip bonding experience

- In house bonding ensures controlled Quality, and seal integrity
- ISO 9001 Certified
- Bonds slips for GENERAL Twin Seal and TruSeal Valves only
- 8800 series slip have bond integrity pull tab
- Slips are Manganese Phosphate coated for corrosion resistance
- 16 available elastomers
- Genuine GENERAL Twin Seal and TruSeal replacement slips
- Slip exchange and re-bond program



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