



VALVTECHNOLOGIES' SUCCESS STORY

JULY 2018

INDUSTRY: Downstream
PLANT TYPE: Chemical
APPLICATION: Hydrogen Isolation
LOCATION: Texas
PRODUCT: V1-1

THE WIN:

This customer had a long-standing history of using "Y" pattern globe valves for isolation valves in hydrogen isolation service. After reviewing the benefits of the ValvTechnologies' zero-leakage design, the customer changed their specification to require ValvTechnologies' zero-leakage, metal seated ball valves.



CHALLENGE: Achieving tight shut off on high-pressure hydrogen (1,160 psig) service in a single direction, much less on a bi-directional valve, is very difficult for plants to realize. ValvTechnologies, however, was able to custom-engineer a perfect solution to not only meet, but exceed the customers requirements and expectations.



SOLUTION: ValvTechnologies supplied V1-1 zero-leakage A105 seat supported valves with Colmonoy® 69 coating on the integral seat and an Inconel® 718 ball also with Colmonoy® 69. The valves were tested to zero-leakage in the primary direction and class V in the reverse direction.

These will be the first valves installed in high-pressure hydrogen service at this customer's plant.



BENEFIT: This customer will recognize repeatable, long-term, reliable tight shut off, allowing for a longer run time with significantly reduced maintenance and lower total cost-of-ownership.

FUTURE PROJECTS: ValvTechnologies will replace the existing installed base of "Y" pattern globe valves throughout the plant with V1-1 zero-leakage valves.

INFORMATION: For more information, contact ValvTechnologies at info@valv.com.