

Salt Cake Slurry Isolation for a Bleach Plant

Case Study: Arkansas
June 2008

Industry: Chemical



Process Conditions:	
Size	1"
Valve Model	CBA Style Ball Valve
Quantity	2 pcs
Temperature	Ambient
Application	Isolation of slurry
Media	Abrasive and Corrosive Salt cake Slurry for an R8 [®] ClO ₂ Process Bleach generator
Pressure	Less than 100 psi
Problem	The customer had used alternative valves in the R8 Bleach generator with limited success. The Salt cake slurry with high chlorides content would corrode alloy valves and the high salt solids content would erode the seats in the valves, leading to leakage very quickly. Previous valves included Teflon Lined Ball Valves and Titanium Ball Valves that had lasted 3 months to 1 year in service.
SKYCERA Solution	SKYCERA [®] offered a CBA Style Ball valve for this application. The fully lined body cavity isolates the process from the valve body, eliminating corrosion of the body. The internal ceramics are virtually inert to the highly corrosive chlorides and erosive effects of the salt cake slurry. This customer also required special o-rings for the valve body for customer process requirements.