

Challenge

Background

Critical valves were blowing out the packing twice a year during startups and shutdowns. In an application involving the sealing of extremely high pressure steam, this situation posed major safety issues as well as very high downtime expense.

Associated Costs Included:

- Online leak injection at \$1,200+ per valve
- Forced outages
- Damaged motor actuator
- Valve repair after online injection: average cost of \$12,000-\$25,000 per valve



Steam isolation valve.

Solution

Install **Chesterton's Valve Sealing System** which provides a precise system for predictable sealing loads and friction.

System includes:

- Chesterton 5300 Sealing Rings
- Chesterton Style One End Rings
- Chesterton 5100 Carbon Bushing
- Chesterton 5150 Live Load Assemblies



Chesterton Valve Sealing System.

Results

Improved Performance & Reliability

- These crucial valves are now reliable
- Major safety and repair issues were eliminated
- The asset life of vital equipment has been greatly extended

Savings

The overall savings are considerable and the asset preservation, overall reliability, and reduction of forced outages are the real winning combination.

\$=USD



Critical plant valves have extended equipment life.