Power Plant Improves Facility Safety & Solves Valve Noise Issues with Fisher™ OEM Part

RESULTS

- Avoided unplanned plant shutdowns and contractual penalties.
- Improved plant safety and reliability by using Original Equipment Manufacturer (OEM) part and OEM-accredited service provider.

APPLICATION

This proven result involves a boiler feedwater valve. Boiler feedwater control valves are crucial to protect the boiler feed water pumps. Unexpected maintenance and failures have the potential to bring down power production, which can incur significant contractual penalties.

CUSTOMER

A power plant in Asia Pacific.

CHALLENGE

A Fisher ET valve with anti-cavitation trim installed in the boiler feedwater was recently serviced, and its cage was replaced. However, the replacement cage was a non-OEM part. A few weeks later, the valve started vibrating and noise levels were significantly increasing. Eventually, water was found leaking from the body-bonnet joint. To resolve the issue and avoid compromising employee safety, the power plant had to be shut down.

SOLUTION

When Emerson's technical team assessed the recently serviced valve, it was found that a non-OEM cage was used in the valve assembly. Fisher OEM parts are custom engineered for each valve application, and it is highly encouraged for customers to avoid replicator parts.



An original and carefully measured Fisher ET valve cage ensures safety in boiler feed of a power plant in Asia Pacific.



Figure 1. Fisher ET Control Valve with Fisher Cavitrol[™] cage





For more information: www.Fisher.com Unfortunately, the replicator did not understand the significance of each dimension. The replicator cage dimension was not within the tolerance limit leading to improper gasket loading and water leakage through the body-bonnet joint.

The Fisher Cavitrol cage has a special hole design that mitigates cavitation, but the non-OEM replacement's hole size was larger. This resulted in noise and vibration issues.

The technical team thoroughly emphasized to the customer how genuine Fisher parts have proprietary specifications and design tolerances, allowing them to seamlessly fit into your installed Fisher control valves the same way, every time. Because of this, the customer decided to revert to using the original Fisher Cavitrol cage. The valve has been operating in good condition since installation.

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