

State-Owned 2220 MW Thermal Power Plant Reduces Maintenance and Manhours Costs with the Yarway Welbond 5600 High-Pressure Globe Valve

RESULTS

- Reduced unexpected maintenance and manhours expenses by using globe valves designed for high-pressure drops in steam vents and drains
- Extended lifecycle of valves by preventing erosion with solid Stellite® valve plugs and seats
- Simplified restorations by switching to a cost-effective in-line repair valve design



APPLICATION

High-pressure steam vent and drain

CUSTOMER

A large state-owned 2220 MW thermal power plant in Asia

CHALLENGE

The high-pressure steam vent and drain applications at the customer's power plant site would create huge pressure drops that seriously damaged the 10 existing 1500-class steam isolation valves. The resulting cracks and leaks would let out a huge steam loss, demanding increased frequency in maintenance activities and associated costs.

The innovative design of the Yarway Welbond high-pressure globe valve optimizes operations at a thermal power plant in Asia.

SOLUTION

The customer approached [Enfourtech Corp.Ltd.], a trusted local business partner in the region, to consult about an appropriate solution. [Enfourtech Corp.Ltd.] conducted a walk-down inspection to gain better insights into the problem. After a thorough assessment of the pipeline, Emerson's Yarway Welbond 5600 high-pressure globe valve was proposed as a solution, which the customer accepted.

Yarway Welbond high-pressure globe valves have solid Stellite® valve plug and solid Stellite seat, which is vacuum brazed to the body. This innovative design prevents the inside surface from cracking, wiredrawing and erosion because of high-pressure drops. Additionally, Yarway Welbond valves have dual orifices that dissipates the erosive forces from valve plug and seat area, generous port sizes and fully retractable disc-stem assemblies that offer high-flow capacity and minimized flow velocity—extending seat and disc lifecycles. This model also accommodates cost-effective in-line repairs with its through-the-yoke removable stem, disc and packing, and fully exposed seat design. The valve also meets ASME B31.1 piping code standards, particularly provisions in paragraphs 122.1.7.

Since the last follow-through with the customer, there have been no complaints from the installation and the 10 Yarway Welbond valves are still operating smoothly. Pipeline leakages and maintenance activities have been significantly reduced at the power plant.



Yarway Welbond high-pressure globe valves for high-pressure steam vent and drain applications

Emerson
Address
City, State 123456
T +1 123 456 7890
F +1 123 456 7890
www.Emerson.com

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