

State-Owned Oil & Gas Company Streamlines Shutdown, Turnaround and Outage Events; Saves on Maintenance and Manhours Costs with the Yarway Hy-Drop[®] 5800 Throttling Valve

RESULTS

- Saved on additional operational expenses resulting from unexpected replacement, maintenance and labor needs
- Prevented leaks caused by high pressure drops using a throttling valve with a vacuum brazed Stellite[®] seat and single solid Stellite plug
- Simplified planned repair with an in-line repair feature using the Yarway reseating tool



APPLICATION

Boiler blowdown

CUSTOMER

A large state-owned oil and gas company in Asia

CHALLENGE

The plant had several non-ASME-coded globe valves installed for continuous blowdown application. With the valves not meeting industry standards and the design itself not being suitable for high-pressure drop applications, they would constantly leak. To address this issue, the customer would repair or replace the valves during scheduled shutdowns, turnarounds, and outages (STO). Unfortunately, the leakage continued to reoccur. Downtime due to repairs and replacements had to be done more than five times every two years, impacting operational costs for maintenance and manhours.

The Yarway Hy-Drop throttling valve prevents leaks and unexpected costs at an oil & gas company in Asia.

SOLUTION

The customer reached out to [Lumax International Corp Ltd], Emerson's trusted local business partner in the region to inquire about a suitable solution. After listening to an overview of the problem, [Lumax International Corp Ltd], suggested to conduct a walk-down inspection for an ocular input and a better assessment of pipeline conditions. After a thorough examination, Emerson's Yarway Hy-Drop® 5800 throttling valve was proposed as a solution, which the customer accepted.

Blowdown applications have high-pressured ratings and huge pressure drops, which cause serious damage to valve internals within a short period, hence causing them to leak. The Yarway Hy-Drop 5800 throttling valve is specifically designed for continuous blowdown application. It meets ASME B31.1 piping code standards, particularly provisions in paragraphs 122.1.4, 122.1.7(c), and 122.2. Additionally, this model is designed with a solid Stellite® valve plug and an elongated Stellite seat, which is vacuum brazed to the body, preventing the insides from erosion and cracking. Such model also accommodates in-line repair using a reseating tool which cuts a new seat without removing the valve from the piping.

From the most recent follow-through, the customer reported that the installed Yarway valves have been in service for over five years without maintenance or replacement. They also placed multiple orders for Yarway Hy-Drop 5800 throttling valves to replace all the non-ASME-coded globe valves in their other sites.



Yarway Hy-Drop throttling valve for blowdown applications

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