

Pilot Valve Solution Reduces Costs and Piping Rework During Plant Shutdown

RESULTS

- Upgrade of existing direct spring-operated pressure relief valves to pilot operated pressure relief valve without piping modification
- \$20,000 cost savings and reduction of 100 working hours for piping modification
- Eliminated potential valve chattering issue due to high inlet pressure loss

APPLICATION

Pressure Relief Valves

CUSTOMER

Gas processing plant in Asia

CHALLENGE

A natural gas processing plant in Southeast Asia was working on an asset life extension and improvement project of their 20-year-old facility.

Emerson supported the customer review and selection of their PRVs (which included a force balance assessment) for over 150 valves. Five valves were identified with high inlet loss and the potential chatter by using direct spring-operated pressure relief valves.

Due to the tight shutdown schedule and budget, it was critical for the customer to minimize piping modification work.

SOLUTION

The team offered the Anderson Greenwood™ 400 Series modulating pilot operated relief valve, which can operate effectively in high inlet loss installations, to replace the existing direct spring-operated pressure relief valve.

The main valve body of the Anderson Greenwood™ pilot valves met API 526 spring-operated PRV dimensions and enabled a direct replacement without piping modification.

Unlike other valve manufacturers offering more complicated and costly options, Anderson Greenwood was able to offer a solution utilizing our field-proven standard valves, with a track record of over 60 years, and no additional components. All main valve internals, pilots and sensing options were standard.

RESOURCES

Anderson Greenwood High Pressure Pilots

Emerson Automation Solutions

Americas

T +1 800 558 5853
T +1 972 548 3574

 webadmin.regulators@emerson.com

 Emerson.com

Europe

T +39 051 419 0611

 [Facebook.com/EmersonAutomationSolutions](https://www.facebook.com/EmersonAutomationSolutions)

Asia Pacific

T +65 6777 8211

 [LinkedIn.com/company/emerson-automation-solutions](https://www.linkedin.com/company/emerson-automation-solutions)

 [Twitter.com/emr_automation](https://twitter.com/emr_automation)

Middle East / Africa

T +971 4811 8100



A gas processing plant saved \$20,000 and over 100 working hours for piping modification by selecting pilot operated relief valves to replace direct spring valves.

