FIELDVUE[™] DVC6200 Instrument Improves Reliability and Monitoring of Critical Valve in Liquid-Ammonia Service

RESULTS

- Improved valve monitoring and reliability
- Saved thousands of dollars by avoiding repairs and downtime
- Improved workers' safety by enabling them to avoid trips into areas with ammonia vapors

APPLICATION

Liquid-ammonia service.

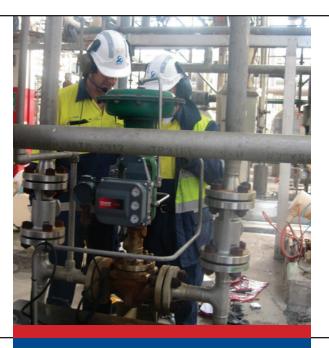
CUSTOMER

Orica Mining Services' Kooragang Island facility.

CHALLENGE

Orica Mining Services is a leading supplier of commercial explosives and blasting systems for the mining and construction industries and a long-time user of Fisher[™] products. The Orica facility at Kooragang Island is one of the largest in the world producing ammonium nitrate. The process includes complex chemical reactions, absorption processes, and the careful handling of nitric acid.

The site has standardized on Fisher control valves and FIELDVUE DVC6000 instruments with Performance Diagnostics, which are applied in processes involving complex and sometimes hazardous chemical reactions. The plant also uses the 375 Field Communicator and AMS Device Manager with ValveLink[™] SNAP-ON[™] applications software as part of its calibration, valve-monitoring, and predictive maintenance system.



Using basic hand tools, Orica's instrument technician Richard Fielding installed a FIELDVUE DVC6200 digital valve controller. "The device was easy to install, program and setup," he said. "Operating trouble-free, the device enables this critical, hazardous-service valve to provide accurate and repeatable response throughout its range of travel."





For more information: www.Fisher.com Orica personnel worked with the local Emerson sales office to improve the performance of a Fisher valve in liquid ammonia service. The valve's high-cycle service conditions and the ammonia atmosphere in which it operates represent one of the most severe environments in any process plant.

SOLUTION

Southern Controls, the Emerson sales office, initiated a field trial using the FIELDVUE DVC6200 instrument with linkage-less, non-contact feedback technology for the harsh application.

Using basic hand tools, Orica's instrument technician Richard Fielding installed the FIELDVUE DVC6200 instrument on the ammonia-service valve. He is pleased with its trouble-free performance. "The reliability of the FIELDVUE DVC6200 instrument, plus its on-line monitoring capabilities, enables our operators to avoid manual checks and valve repairs into areas filled with ammonia vapors," he said.

Since installing the FIELDVUE DVC6200 instrument, Orica has not experienced any production losses due to valve failures. "This single instrument application has saved us thousands of dollars," Fielding said. Orica plans to order 30 new Fisher valves with the FIELDVUE DVC6200 digital valve controllers for an upgrade at the Kooragang ammonia plant.

RESOURCES

FIELDVUE DVC6200 Instrument Product Webpage https://www.emerson.com/en-gb/catalog/fisher-dvc6200



The new FIELDVUE DVC6200 digital valve controller, shown above, makes linkage-less, non-contact feedback technology available in an explosion-proof, flame-proof, and intrinsically-safe package.

f http://www.Facebook.com/FisherValves

http://www.Twitter.com/FisherValves

Emerson Automation Solutions

Marshalltown, Iowa 50158 USA Sorocaba, 18087 Brazil Cernay, 68700 France Dubai, United Arab Emirates Singapore 128461 Singapore



http://www.YouTube.com/user/FisherControlValve



http://www.LinkedIn.com/groups/Fisher-3941826

© 2010, 2018 Fisher Controls International LLC. All rights reserved.

FIELDVUE, Fisher, ValveLink, and SNAP-ON are marks owned by one of the companies in the Emerson Automation Solutions business unit of Emerson Electric Co. Emerson and the Emerson logo are trademarks and service marks of Emerson Electric Co. All other marks are the property of their respective owners.

The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, nothing herein is to be construed as a warranty or guarantee, express or implied, regarding the products or services described herein or their use, performance, merchantability or fitness for a particular purpose. Individual results may vary. All sales are governed by our terms and conditions, which are available upon request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice. Responsibility for proper selection, use and maintenance of any product or service remains solely with the purchaser and end user.





For more information: www.Fisher.com