

Originally appeared in:
Valve Supplement
July 2013 pgs V90-V91.
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HYDROCARBON PROCESSING®

FARRIS' SMARTPRV™ GIVES VALVES A VOICE

A HISTORY OF INNOVATION

Farris Engineering, a business unit of Curtiss-Wright Flow Control Company, is celebrating 70 years of innovation and manufacturing excellence in 2013. Farris has a legacy of providing unique pressure relief solutions starting with the balanced bellows pressure relief valve (PRV) design. Introduced in the 1950s, the balanced bellows mitigated the effects of back pressure and chemical erosion on internal valve components. The balanced bellows remains a standard feature used in PRVs to this day. In the 1980s, Farris introduced SizeMaster, the original PRV sizing software. SizeMaster automated and simplified the complex process of sizing and selecting PRVs and is the foundation for our patented iPRSM™ software. Farris manufactures a complete line of spring loaded and pilot operated relief valves, servicing refining and hydrocarbon processing facilities. Farris has earned its reputation as “the First Line of Safety” providing automatic and positive protection against overpressure situations in thousands of industrial facilities around the world.

SMARTPRV™ VALVE MONITORING SOLUTION

In processing plants, overpressure events are unpredictable and often go unnoticed. Traditional PRV monitoring solutions such as limit switches and other wired technologies have experienced limited success due to difficult and expensive implementations. This has left processing facilities unable to monitor PRVs and unable to estimate amount of product being released. Farris, in partnership with Emerson Process Management, now offers the SmartPRV, a 2600 bellows design pressure relief valve equipped with a Fisher® 4320 wireless position monitor. SmartPRV is a simple, powerful solution providing plants with the ability to track and monitor valves in real time, providing immediate feedback during an overpressure event. Feedback includes the time and duration of an event which allows plants to more accurately estimate overpressure releases.

Plants can achieve next generation emission reporting by leveraging the technology of SmartPRV with Farris Engineering Services powerful iPRSM™ software. iPRSM, a powerful engineering calculation and document repository tool can use SmartPRV's time stamp data to accurately calculate the volume of discharge from an overpressure event. iPRSM also automatically generates the documentation and reports needed in emission reporting. In addition, iPRSM can be used to diagnose the cause of the overpressure scenario and provide actions toward mitigation. iPRSM is an elegant alternative to the arduous task of manual calculations for long term emissions management.



BEYOND THE VALVE

With Farris, a trustworthy valve is only part of our promise. Farris provides customers with total pressure relief management solutions that support a facility's entire lifecycle, transforming the way you ensure plant safety:

Design—Using the power of iPRSM technology and our Farris Engineering Services team, correctly design your pressure relief system to respond to every overpressure scenario.

Build—Equip your plant with Farris' full line of spring loaded and pilot operated PRV hardware, knowing your plant is protected by 70 years of manufacturing experience.

Monitor—Monitor your pressure relief valves with the SmartPRV™ and leverage the technology of proven leaders, Farris and Emerson.

Maintain—Localized aftermarket service and repair assistance through the Farris Authorized Service Team—or “FAST” Centers.

Audit—Our Farris Engineering Services team and iPRSM technology will keep your pressure relief systems audited and in compliance.



CONTACT INFORMATION

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If safety valves could talk...

Farris SmartPRV™ gives
pressure relief valves a voice.



Silent sentinels. Until now, PRV's have been difficult and expensive to monitor allowing associated overpressure events to go undetected. What modern processing plants need are PRV's with a voice. Farris Engineering is proud to introduce the first wireless monitored relief valve, SmartPRV.

SmartPRV technology provides feedback using a Fisher® wireless position monitor for every PRV discharge. Plants can now accurately record and estimate costs related to overpressure events. Your facility, accurately monitored and safer. SmartPRV is part of Farris' Total Pressure Relief Management Solutions. Please contact your local Farris representative or FAST Center to learn more today.

**CURTISS
WRIGHT**
Flow Control Company
Farris Engineering

Learn more at farris.cwfc.com