

A sound solution

Acoustic leak detection for neles ValvGuard system reduces hazards and production loss

A highly reliable and accurate on-line acoustic leak detection system is now available for Metso Automation's neles ValvGuard™ testing and monitoring system for emergency venting (ESV) valves. This system, which automatically monitors normally closed venting valves, is capable of detecting internal leakage as low as a few bub-

bles. The leak test can also be part of the complete test stroke of normally open ESD valves.

Acoustic leak detection is an invaluable tool for reducing safety hazards and production losses posed by ESV or process isolation valve leakage at refineries, petrochemical and chemical processing plants. If leakage is present at unac-

ceptable levels, the neles ValvGuard system will activate an alarm and/or send messages to appropriate parties via intranet, digital phone or email.

Leakage data is collected as a trend that can be viewed at any time with Metso Automation's Valve Manager™ software. With this information, the plant can take action

before leakage becomes hazardous or results in excessive financial loss.

Prior to the advent of acoustic leak detection, the only way to monitor venting valve leakage was to take the valve off-line and dismantle it for testing. Now, leak monitoring can be performed in real time at a 'reasonable' cost (low or at no additional cost) with neles ValvGuard.


Leak detection can significantly improve safety coverage of the neles ValvGuard system. A recent third-party study confirms that the Diagnostic Coverage Factor of the standard neles ValvGuard system for ESV valves is greater than 90%. It is believed that incorporating acoustic leak detection will bring neles ValvGuard's diagnostic coverage for most ESV valves to about 99%.

The unique neles ValvGuard system may be purchased in conjunction with Metso Automation ESD/ESV packages, integrated with Metso Automation actuators, or purchased separately for use with other brands of valves and actuators. With leakage detection, neles ValvGuard will remarkably improve the monitoring of ESV valves, and can be retrofitted to existing valves in the field.

FIELD BROWSER SYSTEM

Maintenance planning

ON-LINE functional and leakage testing helps to avoid unnecessary shutdowns



NO MORE GUESS WORK

LEAKAGE detection answers to

- Is there a leak
- How big is the leak
- Which of the valves leak

