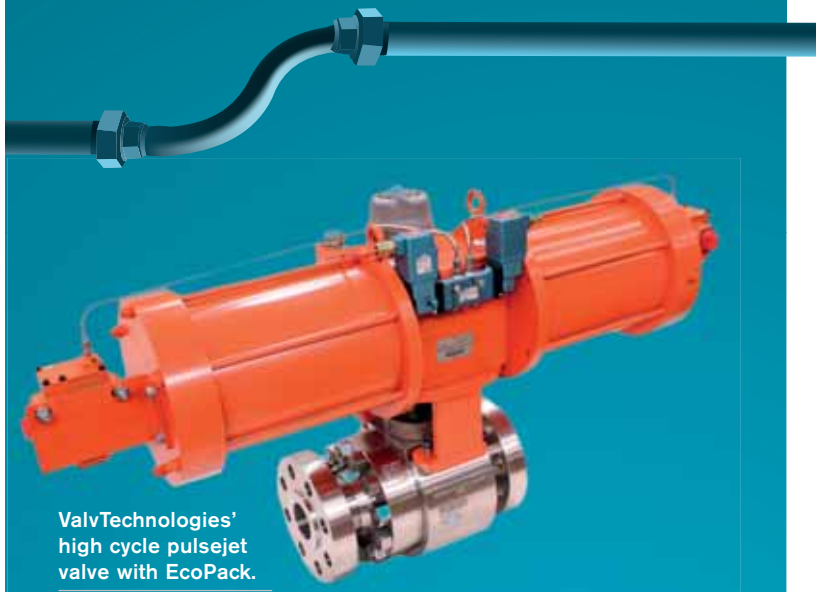


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ValvTechnologies' high cycle pulsejet valve with EcoPack.

VALVTECHNOLOGIES

ValvTechnologies is a leading manufacturer of zero leakage, severe service isolation valve solutions. The company has introduced a fast-acting, high cycle NexTech® pulsejet valve with an EcoPack™ stem packing solution for the reduction of fugitive emissions.

Reducing fugitive emissions is a key concern in the fight against climate change. The EPA estimates that the production segment of the oil and natural gas industry is responsible for 45% of total methane emissions. In 2015, the first ever plan to regulate emissions from this industry was launched: because valve leakage is responsible for more than 50% of total fugitive emissions, valves have been a considerable focus in the effort to reduce fugitive emissions.

ValvTechnologies' is leading the charge in the reduction of fugitive emissions with the development of its pulsejet valve with EcoPack technology; a superior stem packing solution for high cycle, fast acting valves that meets stringent fugitive emissions requirements.

Pulsejet valves are designed to send a pulse of gas through a pipeline system. A trunnion-mounted ball valve, ValvTechnologies NexTech pulsejet valve is capable of 90° or 180° rotation in speeds as low as 0.5 sec. or faster. This fast actuation speed is what creates the gas 'pulse' through the pipeline system. Pulsejet systems can be used to clean system filters, spray chemicals in an injection type system or pulse debris/media through a pipeline to prevent clogging.

These systems cycle many thousands of times per day. Conventional packing systems cannot handle the abuse of the fast cycle speed and the high cycle count. ValvTechnologies' EcoPack solution was designed to address and overcome this challenge.

Typical stem sealing technology requires packing adjustment. With high cycle valves, these adjustments would have to occur very often, causing disruptions in plant operation, safety concerns and non-compliance with tightening emissions regulations. ValvTechnologies' pulsejet valve with EcoPack was recently tested at high pressure and line temperature to 450°F for over 500 000 cycles: lab results verified the solution not only met but exceeded endurance testing standard performed while retaining a maximum leakage rate equivalent to ISO 15848-1 2006 Class BH for the entirety of the test, requiring zero adjustments or maintenance. This equals longer plant operation between maintenance intervals, improved site safety and less emissions from the stem packing.

This solution is perfect for users requiring a quickly rotating valve that completes many cycles annually (i.e. 250 000/y or more) and must also meet fugitive emissions requirements. 