



## **Emissions Testing of SSP Instrumentation Valves**

Due to increased awareness of the potential negative effect of fugitive emissions on the environment, many companies have implemented Leak Detection and Repair (LDAR) programs.

A wide number of test standards have been developed, a commonly referenced group of tests being those developed by the American Petroleum Institute (API). There are three commonly used standards relating to valve emissions:

- API 622 Type testing of Process Valve Packing for fugitive emissions
- API 624 Type testing of Rising Stem Valves equipped with Graphite packing for fugitive emissions
- API 641 Type testing of Quarter turn valves for fugitive emissions.

The testing to these standards is to be performed using Methane gas, 97% purity. These standards are generally considered to be applicable to valves larger than the SSP Instrumentation series of valves.

In 2011 an Engineering Technical Report was issued by TUV SUD America, having witnessed, reviewed, and approved the testing of a range of SSP Instrumentation valves against the TA Luft standard and criteria. The testing medium was Helium, and included tests under vacuum, and pressurized, at low temperature and at high temperature. Additionally, hydrostatic hold and burst tests were performed.

Copies of this test report, **ILETR 110929**, are available upon request for inspection.

In the absence of specific instrumentation valve emissions tests, SSP will refer to the TA Luft testing, as it is both more stringent and more applicable.