



Valvealert™


Compressor Valve Monitoring System



The Valvealert™ Compressor Valve Monitoring System is a total solution that allows the user to pinpoint anomalies with reciprocating compressor valves. It is cost effective, simple to use and does not require extensive training.

Valvealert™ records an acoustic emission (AE) and temperature fingerprint for the operation of each valve (baseline). New data is analyzed against the baseline to determine the anomalies with the operation of the compressor.

Valvealert™ provides automatic detection, alerting and reporting of anomalies with the operation of reciprocating compressor valves.

 Patent Number: 7,318,350

 **CPI** COMPRESSOR
PRODUCTS INTL
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Proven Solutions for the Global Compression Industry™



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VA2 - Handheld Portable Data Collector

The handheld data collector records acoustic emission data and temperature. A sensor from the handheld unit is attached to a quick release connector bonded to the valve cover. Once the data is collected and stored on the VA2 unit, it is uploaded to a PC or laptop where the data is automatically analyzed by the Valvealert™ software. Making this a versatile way of monitoring compressor valves in all applications.

Valvealert™ Software

Data is analyzed using the sophisticated algorithms embedded within the software, with the results of the analysis presented to the user through simple graphic displays. In addition the Valvealert™ software provides a full complement of trending and diagnostic features. The usability of the Valvealert™ software means an accurate assessment of valve performance can be established without the need for specialist training.

Valvealert™ Platforms

- Valvealert™ is a handheld data system that has the option of having hard wired sensors terminating at a local control panel for safe and efficient data collection
- Valvealert™ software is available as standalone or networked versions.

Valvealert™ provides detection of:

- Leaking Valves
- Stiff/Weak springs
- Slamming
- Valve Flutter
- Late and early valve opening and closing events

Key benefits of Valvealert™:

- Valvealert™ is intrinsically safe
- Valvealert™ is non-intrusive
- No drilling or tapping of the cylinders
- Simple and fast data collection
- Automatic analysis of the data
- Automatic triggering of alerts
- Simple graphical status display



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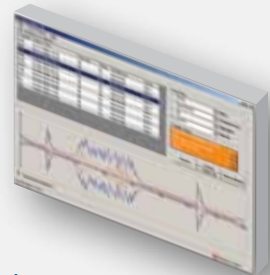
Traffic light warnings

Potential anomalies or problem areas are highlighted using a simple traffic light graphic display.



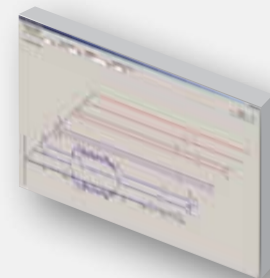
Location pinpointed

Problem areas are highlighted using a simple graphic display together with bar charts that indicate operational anomalies.



Valve signature

Valve problems are analyzed using the AE signature obtained from the data collected from the compressor, and displayed in simple to navigate graphic displays.



Valve performance trends

The software features 'Trending' of valve performance, using data and graphics such as a cascading view of AE signatures recorded over time, as shown in this example.



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