



## Some typical questions answered about CPI Valvealert™

- Q** Can Valvealert be used on any reciprocating compressor?
- a** Yes, including Hyper compressors.
- Q** Can Valvealert be used to establish ring condition?
- a** No, but please refer to a CPI representative as this may be possible at a later date.
- Q** Is Valvealert only for use with CPI Radius Disc valves?
- a** No, Valvealert can be used with any type of compressor valve metallic or non-metallic.
- Q** Can Valvealert be used for general rotating machinery vibration analysis?
- a** No, it is intended for use only on reciprocating compressors.
- Q** Does the compressor have to be shut down to fit the TDC marker?
- a** Yes, as this needs to be located in the flywheel guard and a bolt needs to be fitted to the flywheel as a marker.
- Q** Will different operating conditions affect the readings taken?
- a** Yes, base line data needs to be obtained for each process condition at 100% load for the readings to be meaningful.
- Q** Is the software available in other languages?
- a** Not currently, but this is planned as a future development.
- Q** Is there a software update service?
- a** Yes, this is free for the first year after which time it will be a chargeable option through one of the Valvealert aftercare packages.

- Q** Can data be analysed for trending purposes?
- a** Yes.
- Q** Is set up and training included?
- a** No, this is usually an extra for which we offer an estimated price at the point of quotation for hardware.
- Q** How long will set up and training take?
- a** A 4 cylinder compressor will usually take around 3 days on site.
- Q** How long does it take to capture data from each valve cap?
- a** Usually about 30-60 seconds.
- Q** What happens if the battery is low in the Handheld unit and how long will it usually last?
- a** Normal battery life is 150 hours but should it discharge fully, data will not be lost.
- Q** Is Valvealert I.S. (Intrinsically Safe)?
- a** Yes, there is an I.S. option certified by CSA/ATEX.
- Q** What information is obtained by the handheld sensor?
- a** The sensor captures acoustic and temperature data.
- Q** How are the valve cap fittings (quick connectors) attached?
- a** These are attached using a structural acrylic glue supplied with the initial kit of parts although it is advisable to clean dirt and paint from the covers prior to fitment.
- Q** Can the user change the base line data and therefore alter alarm and trip points (red and amber lights) for valve problems?
- a** Yes, this can be done after training.
- Q** Can CPI offer periodic Valvealert analysis?
- a** Valvealert is generally aimed at users who want to carry out the monitoring themselves, although it can be carried out by CPI if required.
- Q** What information from the compressor and process is required prior to set up?
- a** Basic operating conditions similar to that required when specifying valves, ie. pressure, temperature, speed stroke, crank angles, etc.

**Q Can one sensor be used for all applications?**

**A** *Potentially there are a maximum of three different types of sensors required dependant upon operating conditions. These are colour coded and are configured during the initial set up. After that, during data acquisition, the handheld data collector will instruct the user as to which sensor to use for each particular cylinder.*

**Q What is the typical lead time for a Valvealert handheld unit and kit of parts?**

**A** *Usually ex-stock for the hardware, although availability of personnel for set up and training can take a little longer, so as much notice as possible is preferred.*

**Q Can additional accessories be purchased later?**

**A** *Yes, there is a standard price list for all the extra parts required, including items such as extra valve cap studs, TDC encoders, cable fittings, etc.*

**Q Can the On-Line Valvealert system be integrated within existing DCS type compressor control systems?**

**A** *Yes, the valve cap sensors and TDC marker can be wired to a local junction box and integrated into the users system by using a standard ethernet connection. So no additional expensive cabling is required.*

**Q Which is best Valvealert Handheld or the On-line system?**

**A** *This depends on the available budget, obviously a permanent On-line system is always preferable, but it is also more expensive.*

**Q Does the equipment need to be re-calibrated?**

**A** *To ensure correct operation it is recommended that the Handheld data collector and sensor be returned every year for re-calibration.*

**● For any further questions not covered, please contact a CPI representative or CPI Corporate Headquarters in Hungerford.**