

Customer Support Note 003

Cleaning solenoid valve assemblies

Disclaimer: It is vital that this Customer Support Note is read carefully before proceeding and that any instructions contained within the document are followed closely. Markes International will not accept responsibility for any damage done to instrumentation or personnel if any instructions within this document are not followed exactly. Any ongoing warranty or contract may be voided if failure to follow these instructions results in damage to the instrumentation. If anything is unclear, you must clarify the details with a Markes representative before proceeding.

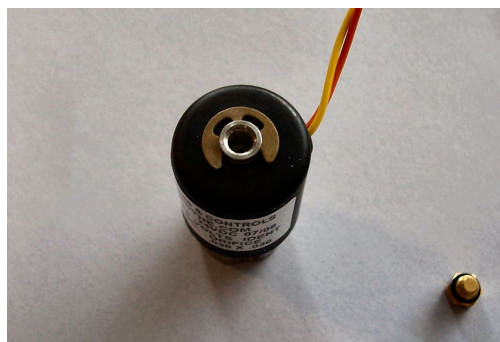
The solenoid valves used in ULTRA and UNITY can develop small leaks after extended periods of operation. Often, this can be resolved by cleaning the sealing faces of the solenoid valve and removing any small pieces of debris that may have built up over time. The following procedure describes the cleaning process.

CAUTION: Please ensure the instrument is switched off and the gases switched off before removing the solenoid valves.

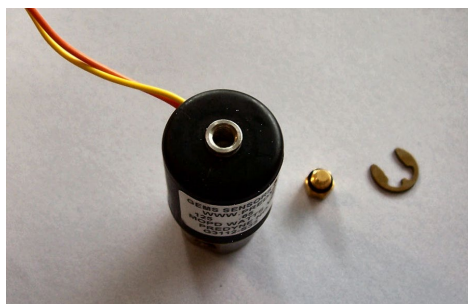
1. If necessary for access, remove the solenoid valve from the instrument:



2. Remove the sealing screw from the top of the solenoid:



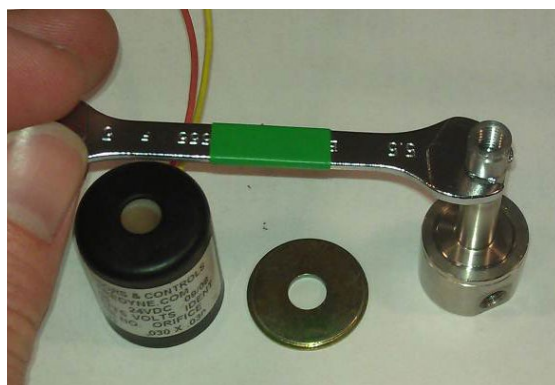
3. Remove the circlip that retains the coil assembly:



4. Remove the coil assembly and stepped washer noting orientation:



5. Unscrew the central pillar of the valve using a 5.5 mm spanner, and disassemble, taking care not to lose any parts:



6. View of the disassembled solenoid valve:



7. Clean any debris from the sealing faces of the valve using a fingernail:



8. Check the lower body of the valve for any particles and blow out with compressed air:



9. To reassemble the solenoid valve assembly, follow these instructions in reverse.

For all technical support queries, please contact Markes International.

Email: support@markes.com Tel.: +44 (0)1443 233922