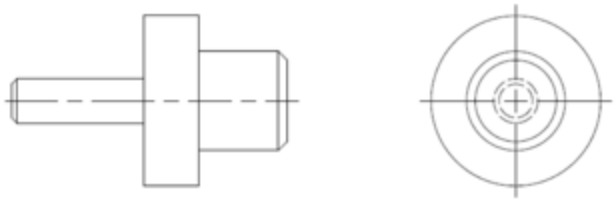
Instructions for Polishing Reliance Probe Sealing Gasket Surfaces

Caution: Before proceeding, follow any and all plant lock out - tag out procedures required. Verify that all power is turned off to the probes. If under pressure, the equipment should be isolated, or the boiler should be shut down *before* proceeding with the installation. Open drain valve to eliminate any trapped pressure. Any trips or alarms connected to the controller should be bypassed. All inspection and installation steps should be performed by a qualified technician and should be executed in accordance with all applicable national and local codes.

Reliance®
A PRODUCT OF CLARK-RELIANCE
16633 Foltz Parkway ● Strongsville, OH 44149 USA Telephone: +1 (440) 572-1500
www.clark-reliance.com ● sales@clark-reliance.com



Example of a probe gasket surface lapping tool

The following procedure should be followed to remove slight damage from the gasket sealing surfaces on Electrolev Columns, Water Columns, and Levalarm Chambers

1. Inspect damage to the gasket surfaces. If it appears that more than .015” of material will need to be removed, the column or chamber must be replaced. If the damage is within the guidelines and repairable proceed to step 2.
2. Install the lapping tool into an electric or cordless drill. *The lapping tool is available from Clark-Reliance. Please contact the factory to request the special tool.*
   - For applications with T, V, or Z type probes, use P/N: PROBE-TVZ-TOOL
   - For applications with FG or FB type probes use P/N: PROBE-F-TOOL
3. Apply a generous amount of automotive valve grinding compound (such as Permatex Grease Mix Valve Grinding Compound or equal) to the lapping tool and also to the surface to be polished.
4. Begin by polishing at approximately 600 RPM for about one minute.
5. Clean and inspect the polished surface.
6. The gasket sealing surface should have a finish of approximately 32 to 64 RMS.
7. Repeat the procedure if necessary.
8. If the gasket surface is smooth and free of scratches and cuts, install the probe per Clark-Reliance IOM R500.E189. Return the device back into surface and perform the hot torque procedure to the probe that was just replaced (see IOM R500.E239).
9. If this procedure does not repair the gasket surface properly, the chamber must be replaced. Contact your local Reliance Sales Representative or contact the factory and ask to speak to a Reliance Applications Engineer.

Consult the factory or your local Clark-Reliance Representative with any questions. Please have the model numbers and/or reference drawing numbers available when calling. You can also contact us at our website www.relianceboilertrim.com or RelianceAppEng@clark-reliance.com.

A PRODUCT OF CLARK-RELIANCE
16633 Foltz Parkway ● Strongsville, OH 44149 USA Telephone: +1 (440) 572-1500
www.clark-reliance.com ● sales@clark-reliance.com