

TECH NOTE

TN-106 – Joint Sealants and Lubricants

ERECTA SWITCH accessories use O-ring seals throughout. The choice of sealant or lubricant at threaded and O-ring joints is important to long-term seal integrity and material compatibility.

Teflon Tape (PTFE Thread Seal Tape). Recommended for all NPT threaded connections in liquid service. Apply to male threads only. Teflon tape is chemically compatible with virtually all process fluids handled by ERECTA SWITCH materials (Polypropylene, Acetal, Kynar PVDF).

Liquid (Rosin) Flux or Hand Soap. Recommended as a thread lubricant and assembly aid for O-ring face seal connections. Scoring nipple threads with a bar of hand soap reduces assembly friction and improves the ability to feel when the face seal O-ring is fully engaged. See Tech Note 103.

Silicone Lubricant. Recommended for O-ring lubrication at cam lock assemblies (see Tech Note 112) and wherever O-ring friction makes assembly difficult. A light coat of silicone lubricant on the O-ring and mating surfaces reduces friction to a tolerable level without attacking elastomeric O-ring materials.

ABS Cement. Can be used to permanently seal and bond cam lock assemblies when access to the interior is not required. See Tech Note 112. Verify chemical compatibility with the process environment before use.

Do Not Use

Petroleum-based lubricants (grease, oil, petroleum jelly) are not recommended for O-ring lubrication — they may attack elastomeric O-ring compounds over time. Use silicone lubricant instead.

Pipe dope (pipe joint compound) is not recommended for ERECTA SWITCH threaded joints. Use Teflon tape.