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### 4.2.3 – PACKING GLAND LUBRICATION

The pump gland should drip approximately 1 drop per minute at 150°F (66°C) operating temperature.

**EXERCISE EXTREME CAUTION WHILE WORKING ON OR IN THE AREA OF THE MOKON TEMPERATURE CONTROL SYSTEM. THE HIGH TEMPERATURE OF THE FLUID WILL CAUSE THE PROCESS LINES, SYSTEM COMPONENTS, AND METAL CABINETS TO BECOME VERY HOT AND THEREFORE THEY SHOULD NOT BE TOUCHED.**

To check/correct the packing gland lubrication:

1. Remove the front and back panels from the system (system should not be on at this point).
2. Remove the splashguard from the pump gland area.
3. Start pump by pressing the start button.
4. Set temperature controller to 150°F (66°C). (See section 5 for controller instructions)
5. Observe the oil dripping from the packing gland. If it is not dripping at the recommended 1 drip per minute, adjustment is needed.  
**NOTE: If installing new packing rings it will be necessary to allow the system to run for a period of time before checking the dripping rate of the oil.**
6. The pumps adjustment collar mechanism consists of two capscrews (11), one on each side. They may be tightened to decrease the dripping or loosened to increase the dripping. See figure 1.

**NOTE: The adjustment collar capscrews must be EVENLY tightened or loosened, one flat at a time, to achieve proper adjustment. Failure to do so will result in damage to the pump. Overtightening will destroy the packing.**

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### 4.2.4 – REPLACING PUMP PACKING

To replace the pump packing:

1. Loosen the adjustment collar capscrews (11).
2. Remove the adjustment collar (9).
3. Using a packing hook, remove the packing rings (12).
4. Install new packing rings (12), staggering the joints left to right. Lubricate the packing rings with oil, grease, or graphite to aid assembly. A length of pipe will help seat each packing ring. Install the same quantity of rings removed. (Typically, 6-7 rings)
5. Replace the adjustment collar (9). Make sure that it is installed squarely.
6. Reinstall the capscrews (11). Tighten wrench tight then back off until gland is slightly loose.  
**NOTE: The capscrews must be tightened EVENLY.**
7. See section 4.2.3 to check &/or correct the packing gland lubrication.