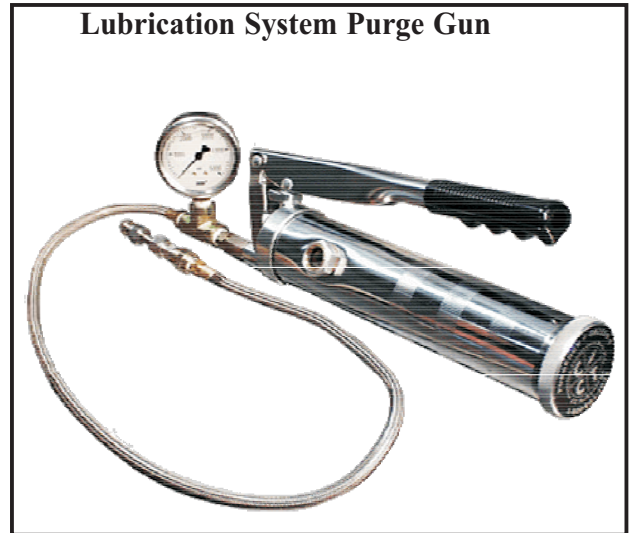




# FROST ENGINEERING SERVICE

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Divider block lubrication systems operate correctly only when all air has been purged from tubing lines and components. Using a lubrication system purge gun for manual air bleeding is necessary in the event any lubrication system components (tubing connections, divider blocks, indicator port plugs or piston enclosure plugs) are loosened, disconnected, or removed after their initial installation. Although lubrication systems can eventually self purge, this severely delays purging air from the total lubrication system and can result in phantom shutdowns, alarms or component failure. The small volume of oil supplied by each stroke of the lube pump results in a much slower rate of oil flow compared to the volume of oil injected by a manual hand pump. Therefore the use of a lubrication system purge gun becomes a necessity before startup or after maintenance. This will ensure that all air trapped in the lubrication system is completely removed.



**Note: Use only clean filtered oil common to the system when purging the divider block lubrication system.**

**Follow this procedure after installing any divider valve assembly, replacing tubing to divider valves, replacing individual divider blocks or when indicator port plugs or piston enclosure plugs are loosened or removed.**

**Step 1:** After maintenance or before compressor start-up loosen the tubing connections at the inlet of the master divider valve, cylinder and packing gland injection points. If there are secondary divider valves loosen tubing connections at the inlet of the secondary divider valves.

**Step 2:** If a purge port is available at the pump head connect the purge gun. If no purge port is available remove the tubing from the discharge side of the pump and connect the purge gun to the tubing.

**Step 3:** Pump clean oil common to the system into the tubing line until there are no air bubbles observed flowing from the tubing connection at the inlet of the master divider valve. Always hold purge gun in a vertical position to eliminate pumping air into the system.

**Step 4:** Tighten the tubing connection at the inlet of the master divider valve while oil is still flowing.

**Step 5:** Continue to operate the purge gun until no air bubbles are observed flowing from the tubing connection at the inlet of the secondary divider valve.

**Step 6:** Tighten the tubing connection at the inlet of the secondary divider valve while oil is still flowing.

**Step 7:** Continue to operate the purge gun until there are no air bubbles observed flowing from the tubing connections at the cylinder or packing gland injection points.

**Step 8:** Tighten the tubing connections at the cylinder and packing gland injection points while oil is still flowing.

**The lubrication system is now ready to operate.**

