



Auto-Lube™ Lubrication Pump Upgrade Kit

MSI Technical Bulletin 023

Subject: Upgrade Kit for Auto-Lube™ Lubrication Pump (ALSA9000)
(Supersedes TECH021)

The intent of this bulletin is to familiarize our customers with a new upgrade kit for the MSI Auto-Lube™ Lubrication Pump. This is not required for the system to function properly but will eliminate possible malfunctions that may occur due to improper use. The upgrade kit will prevent grease from entering the pneumatic side of the pump while also filtering unintended particles from the supply line.

The procedure remains the same for refilling the grease pump. First, close the air supply valve by switching to the off position. Next, relieve the trapped air pressure by pressing the handle on the drain valve located on the top of the reservoir (3). This may be pressed at any point of the refilling process to alleviate pressure. Finally, begin pumping new grease in through the Y-strainer (8) until the piston gets close to the top of the reservoir.

If air becomes entrapped in the reservoir below the piston, hold down the handle on the drain valve and fill with grease until the air is purged.

Note: The same procedure should be followed if grease is observed on the top side of the piston.

As stated in the technical manual, recycled grease should never be used in the Auto-Lube™ system. Any small particulate in the grease will clog the blue lubrication pumps, preventing grease from being delivered to the well service pump packing. If grease steadily flows from the weep hole in the side of the blue lubrication pump bank, at least one of them is clogged and needs to be cleaned. For further details regarding the cleaning process, contact MSI service technicians.

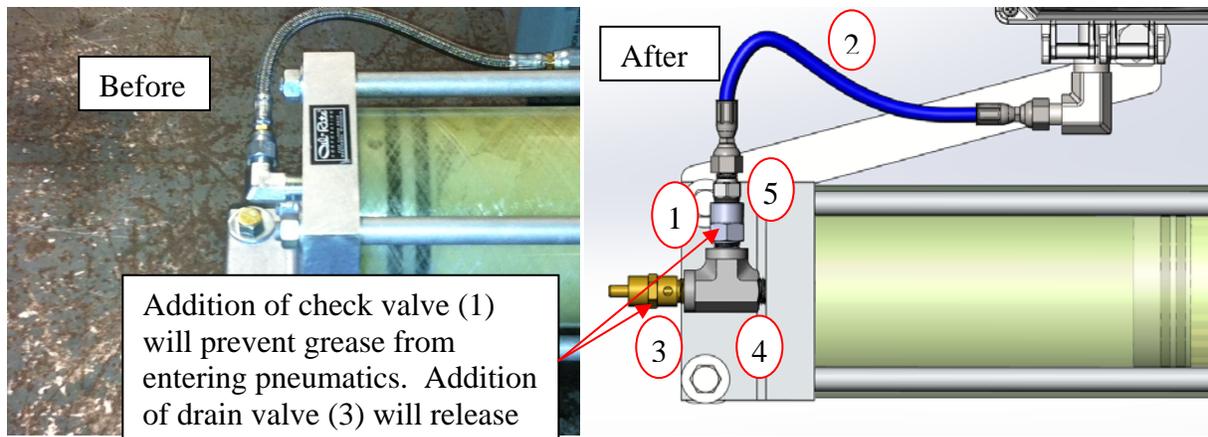


Figure 1. Auto-Lube™ system with air input

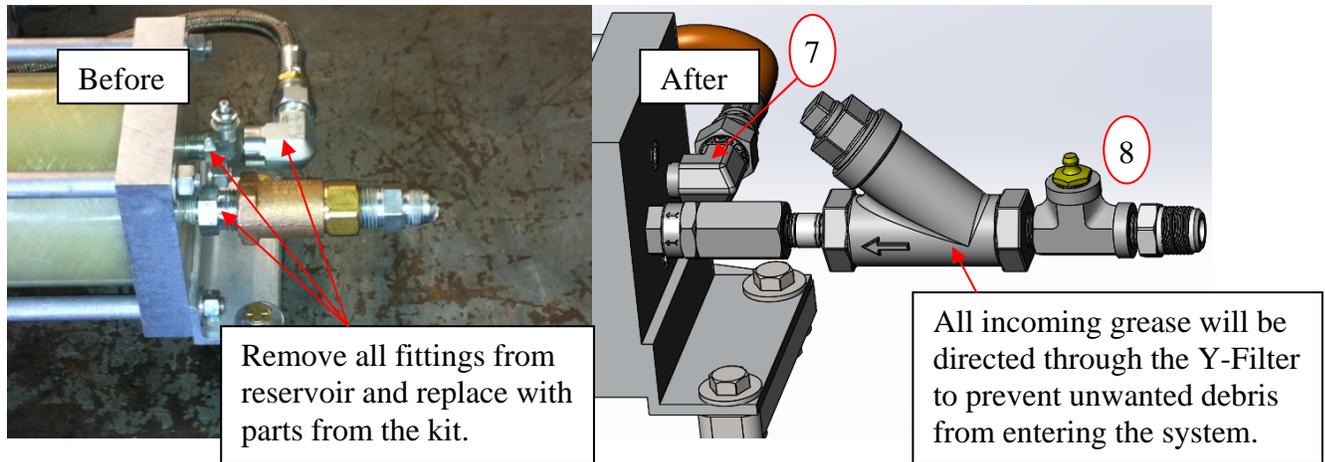


Figure 2. Auto-Lube™ system with grease input.

The Upgrade Kit will consist of 8 separate parts corresponding to the photos:

Bill of Materials

1. **HC0818** - CHECK VALVE - COMPACT, LOW PRESSURE 1/4" NPT M X F
2. **HA-0.25-09.000** - HOSE W/JIC FITTINGS, 1/4" X 9"
3. **ALSC0042** - POP-OFF SAFETY VALVE, 75 PSI, ALS
4. **HC0693P** - TEE, 1/4" NPT MxFxF, 5000 PSI, STEEL, ZINC PLATED
5. **HF0005** - HOSE ADPT, NIPPLE 1/4" JIC M x 1/4" PIPE M
6. **UC0486** - BLANK PLUG, 1/4" NPT FLUSH SEAL (SOCKET TYPE)
7. **HC0820** - EL, BULKHEAD, 1/4" M NPT 1/2" M JIC
8. Preassembled Subassembly
 - a. **HC0818** - CHECK VALVE - COMPACT, LOW PRESSURE 1/4" NPT M X F
 - b. **HC0655P** - PIPE NIPPLE, 1/4 SCH 40 x 1.50" LONG, SS
 - c. **HC0819** - Y-STRAINER, BRONZE, 200 PSI 100 MESH
 - d. **HC0693P** - TEE, 1/4" NPT MxFxF, 5000 PSI, STEEL, ZINC PLATED
 - i. **HC0821** - Grease Fitting, 1/4" x 9/16" HEX
 - e. **HF0071** - HOSE ADPT, NIPPLE 1/2" JIC M x 1/4" PIPE M

You may contact an MSI representative at sales@diwmsi.com or engineering@diwmsi.com if you have any further questions or concerns. Thank you for your understanding and cooperation in this matter.

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