

Bleeding Air From The System

During the initial moments of activation or after prolonged use, a significant amount of air may accumulate within the hydraulic system. This entrapped air may cause the cylinder to respond slowly or behave in an unstable manner. To remove the air, operate the system through several cycles (extending and retracting the ram) free of any load. Make certain the ram is at a lower level than the pump with the coupling pointing upwards to allow air to be released into the pump reservoir. Once all the air has been bled from the system, inspect the oil level and fill the reservoir to the proper level if necessary.

Inspecting The Hydraulic Fluid Level

IMPORTANT: Always retract the ram completely before attempting this procedure.

Check the oil level in the reservoir after approximately every ten hours of use. Place the pump in a vertical position with the reservoir cap up. While holding the reservoir, unscrew the cap to determine if the oil level is between the fill marks on the inside of the reservoir (Figure 5). If oil is low, add enough to bring level between lines. If oil is dirty, following instructions below in the section entitled, "Draining and Flushing the Reservoir".

NOTE! On Foot Pump Model HF-18, a dipstick is attached to the filler cap. To check oil level, hold pump in a vertical position with filler cap up, remove dipstick and wipe clean. Insert dipstick and remove to view oil level. Proper oil level is indicated by upper mark on dipstick (Figure 5).

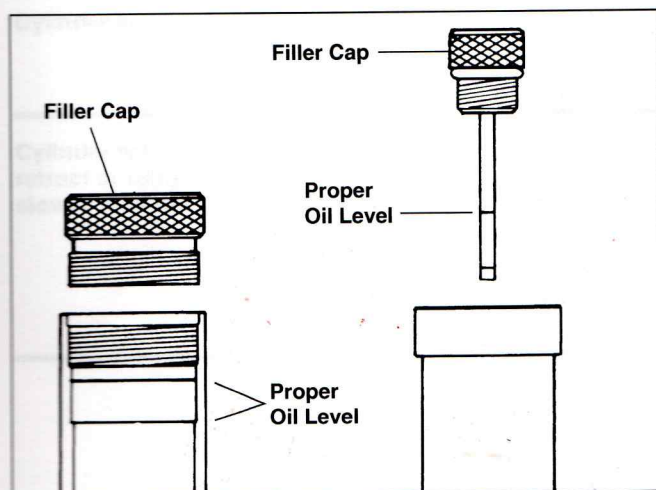


Figure 5 - Checking Oil Levels

Before replacing the reservoir cap, visually inspect the o-ring which seals the cap/reservoir assembly. Replace this o-ring if it is damaged. Reinstall reservoir cap to reservoir and tighten securely. Check for leaks.

CAUTION Do not overfill the pump reservoir as this will adversely affect pump performance.

Draining and Flushing The Reservoir

Wipe the pump exterior completely clean before attempting this procedure.

It is important that after 300 hours of operation, the pump be drained of oil completely and flushed out with a suitable, compatible flushing solution before refilling it with clean hydraulic fluid. To do this, unscrew the reservoir cap from the reservoir and properly discard the used hydraulic fluid. Flush the reservoir vigorously to ensure that no contaminants remain. Clean or replace the pump intake screen at this time. Refill the reservoir in the manner described below in the section entitled "Refilling The Reservoir".

NOTE! Drain and clean the other hydraulic system components (hoses, cylinders, etc.) before reconnecting them to the pump. This will prevent contaminated oil from reentering the pump.

Refilling The Reservoir

NOTE! Always retract the ram completely before attempting this procedure.

Place and support the pump in a vertical position with the filler cap facing upward. Unscrew and remove the reservoir cap from the reservoir. If additional oil must be added to the reservoir, use only an approved high grade hydraulic oil. Clean the entire area around the open rim of the reservoir cap, visually inspect the o-ring which seals the cap/reservoir assembly. Replace this o-ring if it is damaged. Reinstall cap to reservoir and tighten securely. Check for leaks.

CAUTION Do not overfill the pump reservoir as this will hinder pump performance.

Tool Storage

⚠ WARNING

Tools must be kept indoors or well covered in rainy weather. Store the Hydraulic Knockout in a locked area that is out of reach of children and people unfamiliar with these tools. This tool can cause serious injury in the hands of untrained users.