



Part Number: 154-1209

Part Name: Oil Control Valve Maintenance

Revision Date: 12/15/06

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Maintenance Instructions for 154-1209

Tools Required:

Phillips Screwdriver

9/16" Wrench

Rags

Crescent Wrench

KEGEL MAINTENANCE: Procedure for Cleaning Oil Control Valve

The following steps outline the procedure for disassembling the conditioner metering valve. Be careful when removing the oil lines from the fittings since they will leak.

Block off the stem elbows to prevent them from leaking all over the machine (do not split the stem). Open 1/4" lines can be blocked off with a #8 screw.

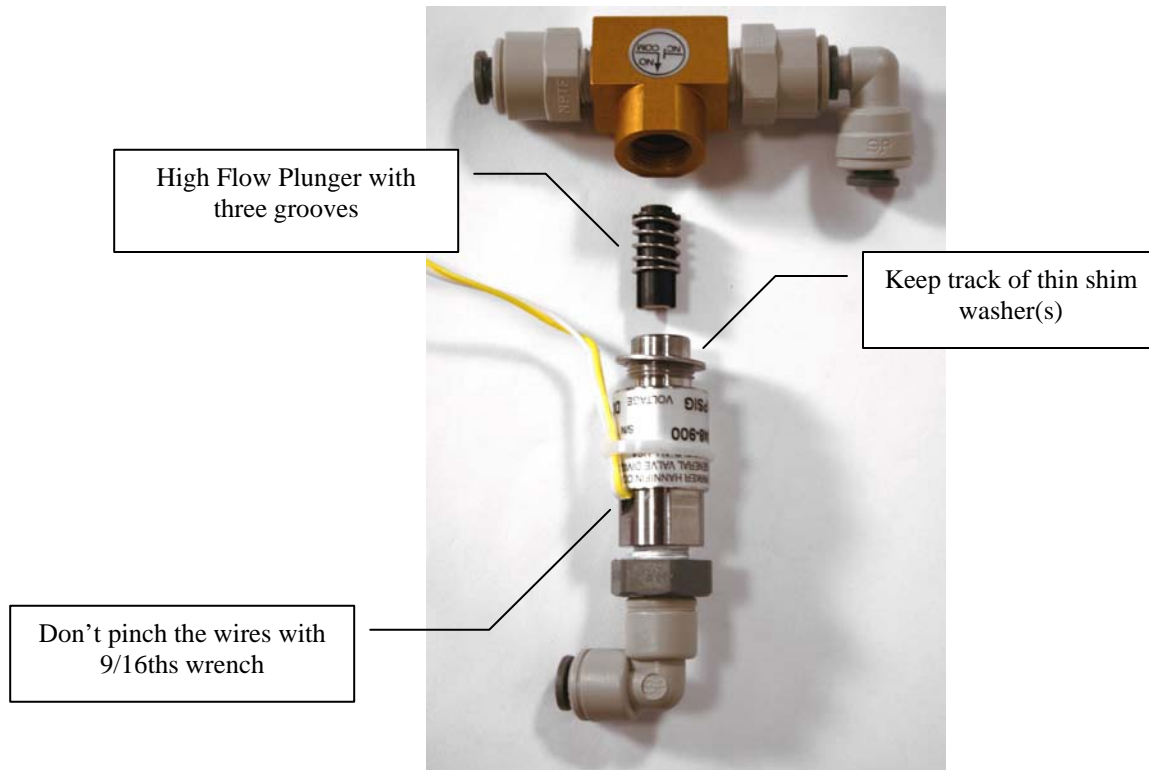
Keep the oil lines and the valve free from dirt and debris while they are disassembled. Clean up any conditioner spills immediately, the sensors and electronic components do not like oil baths.

1. Disconnect power and place the machine in the operating down position.
2. Remove the oil assembly from the rear wall.
3. Clean the area around the oil assembly.
4. Use a Phillips screwdriver to remove the two screws holding the valve to the back plate.
5. Remove the two stem elbows on the top of the valve. **PUSH IN** on the outer collet to release each elbow. Plug the open ends of the elbows to prevent dirt from entering the lines and to stop the oil from leaking (do not split the elbow).
6. Use a crescent wrench & a 9/16" open-end wrench to remove the bottom half of the valve. Do not pinch the small wires on the base of the valve. Keep track of the thin shim washers on the valve. Make sure to use the same washers during re-assembly.



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or internationally at 863-734-0200 and via e-mail at
LMC@Kegel.net





7. The top section of the valve should be blown out with a canister of compressed air. Air should flow freely from the bottom through both sides at the top. A few short bursts of canned air in both holes should displace any debris. Alcohol can also be used to remove any build-up of sediment. (Do not use an air compressor to blow out the valves; water in the lines may be forced into the manifold.)
8. The bottom section contains a plunger and spring. Make sure the three grooves on the sides of the plunger are clean. This part should be cleaned with a cotton swab and alcohol to remove the debris.

IMPORTANT: If a valve is found to have only one groove please call KEGEL for an immediate replacement. All machines should have the "high flow" valves which are machined with three grooves. Please call (863) 734-0200 if a replacement is needed.
9. Replace the valve body on the head of the valve using the same shim washers.
10. Replace the valve on the back plate.
11. Plug each elbow back into the proper fitting and clean around all the connections.
12. Return the oil assembly to the machine and plug in the connections.
13. Run the * **PUMP OUTPUT VOLUME TEST**. Run this test once to clear the lines out. Then check the volume of conditioner output for a typical program and adjust the pump if necessary.