



SERVICING THE ASF INTERNAL PUMP

I. SCOPE:

To guide you through servicing the ASF internal pumps in API analyzers.

II. PARTS:

Cleaning compound (isopropyl alcohol)
Light weight lubricant (20-30 wt lubricant)

III. TOOLS:

2.5 mm Allen wrench
Flat tip screwdriver
#2 crosspoint screwdriver

IV. PROCEDURE:

1. Turn off the analyzer and remove the power cord from the rear.
 2. Remove the cover from the analyzer and remove the pneumatic connections to the pump, making sure that you know which lines go to which fitting on the pump.
 3. Remove the pump from the chassis of the analyzer.
 4. Remove the plastic plate from the pump end of the pump assy (not the motor end of the pump assy).
 5. Remove the pump head assy.
- Note:** Ensure that you notice the orientation of the pump head, so that when you install the head of the pump you will know how the unit goes back together. You will also notice that there are several shims in the head of the motor. Ensure that you know what order the shims go into the head of the pump.
6. Remove the flyweight from the motor shaft.
 7. Remove the connecting rod from the motor shaft.
 8. Clean all of the dirt from the bearing on the pump shaft, try NOT to get any cleaning solvent onto the piston.
 9. Lubricate the bearing (do not over lubricate the pump, a little lightweight lubrication will do) and re-install the pump connecting rod onto the shaft but do not tighten the connecting rod onto the shaft yet.
 10. Install the pump head onto the pump, making sure that the orientation of the pump head is correct and that all of the shims are in place.
 11. Once you have the head of the pump assembled and tight tighten the connecting rod onto the shaft of the motor ensuring that the setscrew is on the flat side of the motor shaft.
 12. Install the flyweight onto the shaft and tighten the setscrew onto the flat spot of motor shaft.

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13. Install the cover onto the end of the pump chassis.
14. Install the pump back into the chassis of the analyzer and connect the pneumatic and electrical connectors.
15. Turn the unit on and calibrate per your normal calibration procedure.

If you have questions regarding this procedure or any API equipment, please contact an API Customer Service representative:

Phone: (619) 657-9800

Fax: (619) 657-9816

Email: customerservice@advpol.com

WWW: <http://www.advpol.com>

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