

VACUUM PUMP FLUSHING PROCEDURE

For ease of operation, Fruitland recommends installing our Pump Flushing Kit (Part #FK500) to assist in this procedure.

Flushing Fluid: $\frac{3}{4}$ of diesel fuel mixed with $\frac{1}{4}$ of pump oil by volume.

Procedure:

Step 1. Stop the pump and remove $\frac{1}{4}$ " npt plug (See below for location):

- On RCF250, it is located on the pump diverter valve. (#38 on exploded view drawing)
- On RCF370 and RCF500, it is located on the intake flange.
- On RCF800 and RCF1200, it is located on the diverter valve housing.

Step 2. Connect a brass fitting, rubber hose, ball valve and flushing fluid bottle to the port.

Step 3. Run the Pump, switch to vacuum and slowly open the ball valve.

Step 4. Pass approximately 2 to 3 liters of the flushing fluid through the pump while restricting/controlling the flushing fluid flow through the ball valve.

Step 5. Close the ball valve and run the pump for an additional minute to remove all the flushing fluid from the pump.

Step 6. Drain the oil catch muffler or oil separator

Step 7. If you remove the Pump flushing fittings from the pump, make sure to re-install the $\frac{1}{4}$ " npt plug back to the port.

Step 8. Resume pumping operation.

For further assistance please call: 1-800-663-9003

Pump Out of Use for Prolonged Period(s):

If the pump is not operated for 2 or more months (before new installation or sitting idle), the above flushing procedure should be performed.

HOW TO FLUSH A VACUUM PUMP IN THE FIELD

Flushing procedure will not work if the pump is running in pressure mode.

Procedure:

Use flushing fluid: $\frac{3}{4}$ of diesel fuel mixed with $\frac{1}{4}$ of pump oil by volume.

Run the pump under vacuum and slowly open the ball valve

Pass approx. 2 -3 liters of flushing fluid through the pump while throttling (restricting and releasing) the flushing fluid through the ball valve.

After flushing, close ball valve and run the pump for few minutes to remove all the flushing fluid from the pump.

Drain used flushing fluid from the oil catch muffler or oil separator.

Step 1. Mix 1 gallon of Diesel Fuel Fluid w/ 2 or 3 quarts of pump oil used in vacuum pump

Step 2. Shake and mix flushing fluid mixture thoroughly

Step 3. Remove Filter Lid & Filter Cartridge. Clean Filter Cartridge prior to placing back into filter canister Remove any/all large debris

Step 4. Place pail/pan under oil catch muffler drain valve. Open Drain Valve on Oil Catch Muffler Canister. Verify drain is flowing freely, unclog if necessary

Step 5. Engage/Start vacuum pump

Step 6. Ensure pump is in vacuum mode

Step 7. Slowly ingest flushing fluid or pump oil mixture into filter during vacuum mode only

Step 8. Complete process with entire mixture

Step 9. Repeat if required - and or - until vacuum pump has been thoroughly flushed/cleaned

Step 10. Slowly ingest 1 quart of pump oil after completing this vacuum pump diesel flush.

**Suggested Weekly Flushing for pump internal cleanliness
and prior to prolonged storage**