



A Division of National Instrument, LLC

Manufacturers of Liquid Filling, Capping, and Integrated Systems

Filamatic Pumps

Operational Checklist

1. Make sure your pump is thoroughly clean. Take the pump apart and check that all items are clean and assembled correctly. Check pump assembly with the pump schematic and instructions.
2. Make sure all pump connections are tight. Check the condition of all seals and gaskets. Replace these if they are worn or cracked.
3. Check that the piston rings are adjusted properly. They need to only be tight enough to prevent the product from leaking past the rings. If you are using an o-ring piston check the condition of the o-ring and replace if needed.
4. Check the condition of the cylinder bore. If the bore is scratched or scored replace the cylinder.
5. If you have an adjustable suckback make sure the adjustment is correct. The adjustment stem should be screwed in only enough to prevent dripping at the nozzle. If the adjustment is turned in too far you will get air bubbles back up inside the nozzle. Also check the seals around the adjustment stem. If they are loose air will seep into the pump. Tighten the seal if needed.
6. Be sure to use hose clamps on all connections, and make them tight.
7. Check the speed of your machine. If you are running too fast the product may not be pulled into the pump cylinder and starve the pump.
8. Check that you are using the correct pump for the product. Glass FU-50 syringe pumps and FUS pumps are for water thin liquids. FKS pumps are for more viscous liquids. FSV pumps are for very viscous liquids.
9. Check that you are using the correct nozzle. Straight through nozzles work well with most liquids. Valve nozzles and nozzles with screens help prevent drips. Make sure the nozzle is clean and assembled correctly.