

Spectra S-Class: SL-128, SM-128 and SE-128 Print Head Recovery Quick Guide

Step 1. Reverse Flush the print head

This step is required for severely clogged print heads. You may skip this step and get back to it later if you don't have a satisfactory results from the Forward Flushing methods. If you have a Reverse Flushing cap, set up your print head for reverse flushing as shown on the picture in this document. If you don't have RF Cap, use a suction method of reverse flushing as shown here. Run Syphon cycle. After it's completed, set up your print head for Forward Flushing and run it with Syphon cycle again. Use fluid # 1UV if you are cleaning a UV print head, or fluid # 1X for solvent print head, or fluid # 1W for water-based one. Temperature can be 30°-35°C. Do not exceed Max Temperature indicated on the picture. Remember that the temperature will rise due to the ultrasonic power.

Step 2. Forward flush the print head

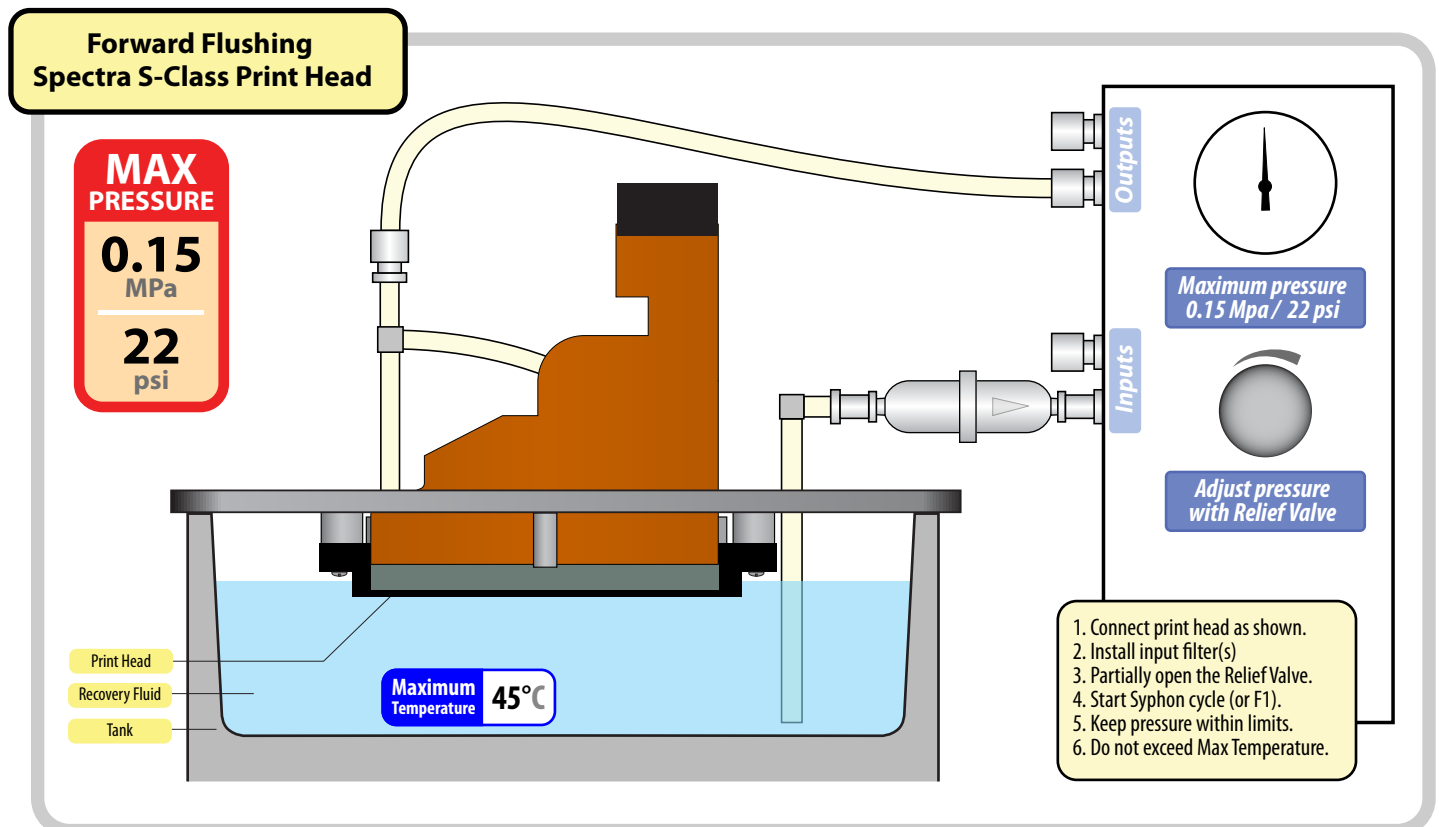
Set your print head for forward flushing as shown on the picture below. If the fluid is foamy, run Syphon cycle only. For non-foamy fluids you can run Normal (F1) cycle. Start with temperature of 30°C. After the cycle has been finished, run Drain cycle (to turn on the pumps) and check nozzles. If there is improvement, repeat the cycle with a slightly higher temperature. Do not exceed Maximum Temperature or Maximum Pressure. Since Nova 256 print head has larger nozzles, you may not have enough flow to check the nozzles. Turn on Air cycle for a few seconds, to get a better flow.

Step 3. Change fluids if necessary

If you don't see improvements in the nozzles condition, move on to the next fluid (the fluid with the next number). When changing fluids, follow instructions from our videos. Set temperature to 30°C and go to Step 3.

After the print head has been recovered, fill it with the flushing solution that comes with your ink.

Important: do not leave recovery fluids with number higher than 1 inside the machine overnight. They will affect the pumps. Always drain the fluid and run distilled water through the machine for 1 minute, then purge the water out by allowing the machine to suck in the air and by running the AR cycle for a few seconds.



Reverse Flushing Spectra S-class print head using Reverse Flushing cap

**MAX
PRESSURE**

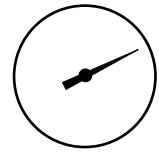
**0.2
MPa**

**30
psi**

Print Head
RF Cap
Recovery Fluid
Tank

**Maximum
Temperature 40°C**

Outputs



**Maximum pressure
0.2 Mpa / 30 psi**

Inputs



**Adjust pressure
with Relief Valve**

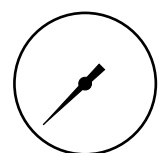
1. Install Reverse Flushing cap.
2. Install 1st stage filter(s).
3. Connect RF cap tubing to output.
4. Plug the second output port.
5. Connect print head to adapter.
6. Run LPRF cycle.
7. Keep pressure within limits.

Reverse Flushing Spectra S-Class print head using Suction Method

Print Head
Recovery Fluid
Tank

**Maximum
Temperature 40°C**

Outputs



Pressure at zero

Inputs



Relief valve open

1. Fluid and tank must be clean.
2. Plug both output ports.
3. Open Relief Valve (one turn).
4. Fluid must reach Print head.
5. Connect print head as shown.
6. Run Syphon cycle.