



How-To:

Adjust the Pump Bypass on Positive Displacement Pumps

Safety Precautions:

- Always turn the unit "OFF" and unplug it from its power supply

Required Tools:

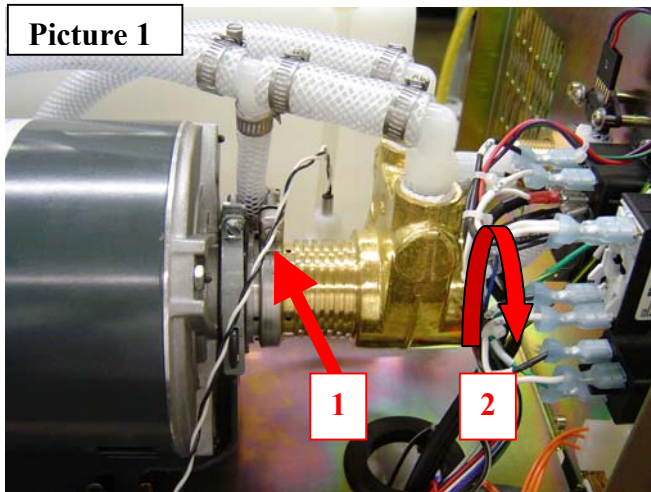
- Philips and a flat head screwdriver

Note:

- It is not recommended to set the bypass to its maximum setting (i.e. to turn the bypass screw clockwise to its maximum value). Needing to do this likely indicates that a pump's vanes have worn out and that the net flow out the pump is too low. In this case, the pump should be replaced

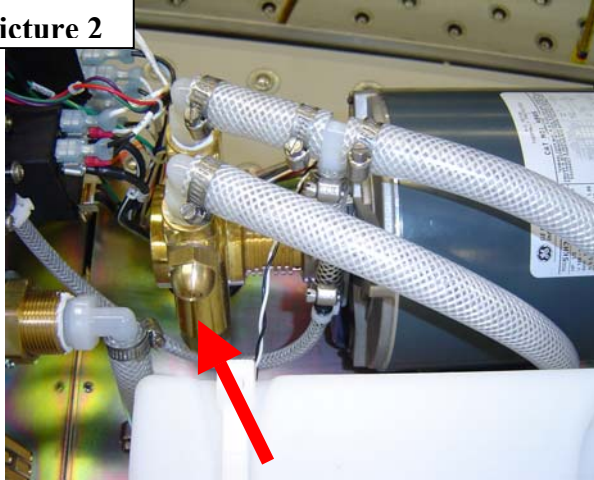
Procedure:

Picture 1



1. Disconnect the chiller from its power supply.
2. Loosen the pump clamp, without removing it, as shown in picture 1 by arrow 1. The pump clamp fastens the pump head to the pump motor, if you completely remove it, it will be difficult to adjust the pump bypass.
3. Rotate the pump as shown in picture 1 by arrow 2. Again, do not remove the pump head from the pump motor.

Picture 2



4. The arrow in picture 2 indicates the position of the pump bypass valve. To increase the bypass pressure (i.e. to decrease the amount of bypassed flow at a given pressure), use your flat head screwdriver to turn the bypass screw clockwise. Turn the bypass screw by $\frac{1}{2}$ turn increments, and do not turn it more than 3 turns. The bypass is a safety mechanism and setting it too high will cause your system to operate at pressures that it was not designed for.
5. Rotate the pump back to its original position, and tighten the clamp.
6. Turn the chiller on and verify its proper performance.