

## Accumulator Eliminates Peristaltic Ink Surge

**T**he G2 ProPump™ is arguably one the best peristaltic pumps available today. It's durable design, along with it's patented auto-hose feed and guide rollers will provide years of trouble-free service.

As you may know, a peristaltic pump uses a series of compression rollers that create a vacuum which then sucks ink through the hose. This process could potentially cause an "ebb-and-flow" or *surging effect* in the ink stream. Depending upon your printing process, this could be a problem.

A simple, inexpensive remedy for this challenge when using water based ink (a stainless steel accumulator is required when using solvent based inks) is an *accumulator (fig.1)*. When integrated in between the pump and chamber or anilox roll/cylinder, it will eliminate the surging effect.

It can be made with a variety of different materials. The parts and instructions below is just one way an accumulator can be fabricated. You may need to alter the size and length of this unit to accommodate your environment and space availability.

### Accumulator Parts Include:

1. 2" PVC Cap
2. 2" PVC (8" long)
3. 2" - 1/2" Reducer
4. 1/2" male-to-male nipple
5. 1/2" Female Threaded "T"
6. 1/2" Male to 5/8" Barbs (you may choose different hose barbs specs depending upon your hose ID)

### Assembly Supplies Include:

1. PVC Primer
2. PVC Glue
3. Teflon Tape
4. Pliers

### Assembly Instructions

1. Apply primer to the inside of the 2" PVC Cap. (part #1)
2. Apply PVC glue to the inside of the 2" PVC Cap and immediately affix to the top of the 8" long PVC pipe.
3. Press down securely to ensure an air-tight fit.
4. Repeats steps 1-3 as you assemble the other end of the 8" PVC pipe to the reducer (part #3)
5. Apply Teflon tape around the threads of the male-to-male PVC nipple (part #4)
6. Screw one end of the nipple into the reducer (part # 3). Tighten till snug with pliers.
7. Screw the 1/2" PVC "T" (part #5) into the other end of the male-to-male nipple. Tighten until snug with pliers.
8. Wrap Teflon tape around threaded end of hose barb (part #6) and screw into PVC "T" (part #5).

It is important that the unit remain vertical to ensure proper operation. This can be achieved by fabricating a mounting post that is affixed to the accumulator and a flat surface.

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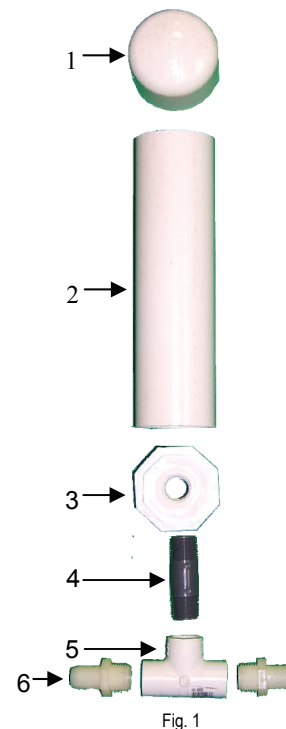


Fig. 1



Assembled Accumulator

tins coming in January, 2008 or call FLXON at 800-756-6474 to learn more about our PTC Consulting services.