

# Beckett Injector Housing

by Ben Vella

I basically used some clear acrylic, this I had left over from my skimmer and happened to fit perfectly. I used the two end peices that come in the Beckett and are used to hold it together. These are glued into my housing, and although they dont form a perfect seal, the water can only leak into the housing, so this isnt a problem. A layer of PTFE thread tape would seal it better if needed.

Firstly I got a piece of clear acrylic (you can use white PVC as well, but I had this lying around) and cut it to about the same length as the Beckett injector. Then I took off the end of the injector (flanged end shown in left side of this pic) and then sanded it down until it was smooth as it has some lumpy writing on it.

Beckett 1408 injector, disassembled to show parts.

Then I used a holesaw to cut a peice of clear acrylic that can seal up one of the ends of the tube. I also cut a hole in the middle to take some 3/4" PVC pressure pipe. I then glued this onto the acrylic tube, glued the sanded flange bit on one side and then the 3/4" pressure pipe to the other (I pushed it in until it almost touched the flange).

Base.

Then I cut another peice of acrylic that was about 15mm larger around the edges than the clear acrylic pipe. I then cut a hole in the middle of this so it fits snugly over the acrylic tube (shown below) and glued it (Weldon 16).

Top flange.

The top part was made in a similar fashion to the flange but the hole in the middle was cut to fit 3/4" pressure pipe.

Top flange plate.

A short length of 3/4" pressure pipe was glued into this, and then a 90o bend. A threaded adaptor was then glued to this in which a 3/4" barbed fitting was screwed in with some PTFE thread tape. Then the other end of the Beckett was glued onto this end. Once this was all dried, the Beckett was pushed into the bottom holder, and this pushed over the top, then some screw holes were drilled (drill screw holes last to make sure it is all aligned. Then the two flange peices were sanded together so they look neat.

Completed.

Then, I took the injector out, drilled a hole and glued in a 13mm fitting I got from Bunnings.

Air inlet.

Make sure this is drilled above the line of the inlet holes in the Beckett. This was glued in with superglue.

I will connect the air inlet to a short hose which has a 13mm ball valve (also from Bunnings) to control air supply. It is just one of those black/green ball valves they use for the watering systems. It is not perfectly airtight, but its only \$2.50 and the other plumbing place wasn't open on Sunday.

On the big flange, I put a 1 mm layer of silicone on it, then some gladwrap and then put the other peice on top and lightly did up the screws so there was some pressure on the silicone. Then I let this cure, and removed the glad wrap. This now gives a excellent seal, I find this method works better then using a rubber seal.