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Installing Value bulkhead fitting into the reservoir

Tools needed: 9/16 Spade Drill Bit, Power Drill, Adjustable wrench



Using your power drill, make a hole with a 9/16" spade drill bit. You can use other types of bits, as long as you make a perfect 9/16". Spade bits cut into the plastic with ease and are well guided by the sharp tip. Do not make your hole at the very bottom of the reservoir (plastic bucket in the photo). In case you do have some debris falling into your container, you will not suck it into your misting kit and prematurely clog your nozzles, just keep about 1" from the bottom to be on the safe side. For a reservoir you can use any container that fits your needs. The preferred choice of many is an inexpensive plastic painter's bucket available at Home Depot. It comes with a lid and is available in various sizes.



Push the fitting from the inside of the bucket out. Make sure that the rubber 'O ring' is securely placed against the lip of the bulkhead. This will be a very tight fit and you will need to use quite a bit of strength to force the bulkhead through the wall of your reservoir.



Screw on the bulkhead nut. Hand tighten for now. Take a look inside the bucket and make sure that the bulkhead is pushed in all the way in.



You will now need to use an adjustable wrench and tighten the bulkhead nut in order to make a water tight seal. Do not try to over tighten. If you feel that the nut is very snug, take a look inside the bucket and make sure there is a marked compression on the rubber 'O ring'. This will be tight enough. Push your tubing into the bulkhead. Before plugging the other end of the tube into your pump, it's a good idea to test for any leaks. Fill the bucket with water and leave it for 30 minutes. If you do not spot any leaks you're done. If there are leaks, tighten the nut a little bit more. The bulkhead comes with a plug in case you want to close the opening.