

DIY Breathe Port for use with Breathe Easy Mask



Breathe port allows heavy or waterproof materials to be used with face shield designs, and helps prevent eyeglasses from fogging up.



You will need:

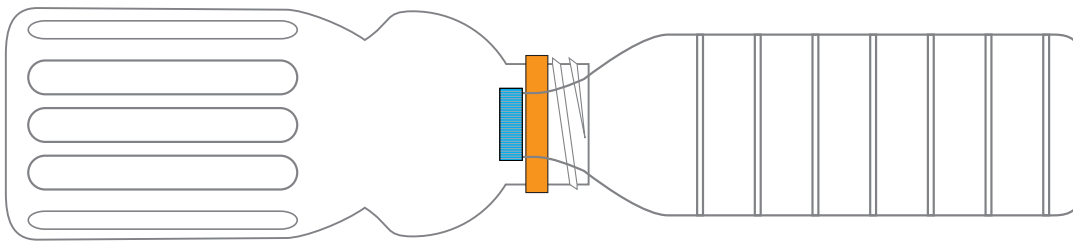
- 1 small neck water bottle
- 1 large neck drink bottle (sports drink bottle or large juice bottle)
- scissors
- marker
- something to make small holes (example: nail or screw)

Filter Material Ideas

HEPA vacuum filter, HVAC filter, activated charcoal filter, lightweight interfacing, lightweight batting, non-woven dryer sheet)

BEFORE YOU CUT ANYTHING....

Test the sizing of your bottles. Take the cap off of the larger bottle, and make sure the smaller one will fit inside WITH THE CAP ON.

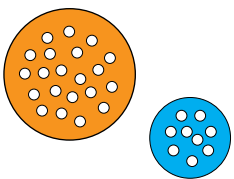


Some water bottles have ridges or wider caps, and won't fit in some sport bottle necks.

Mix and match until you find a combo that works.

Step 1

Take the caps off of both bottles, and poke holes in them.



Test to make sure you can easily breathe in and out through the caps. (Too much resistance will cause back pressure in the mask.)

Put the cap back on the water bottle after this step.

Step 2

Cut the tops off of both bottles, 2" from the top.

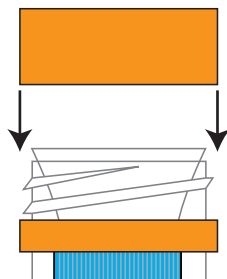
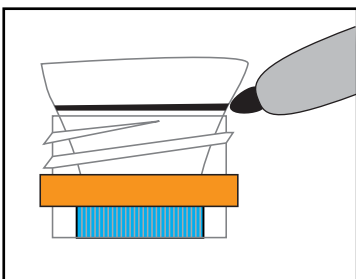


On the larger bottle, use the scissors to trim the excess until only the neck remains. (This is where the plastic gets thick.)

Important: Do not remove ring from bottle.

Step 3

Set water bottle top inside of larger bottle neck, and use marker to trace cut line. Trim to fit.



Test fit by screwing large cap on. If it closes firmly, and interior bottle doesn't wiggle, the port is ready to use.

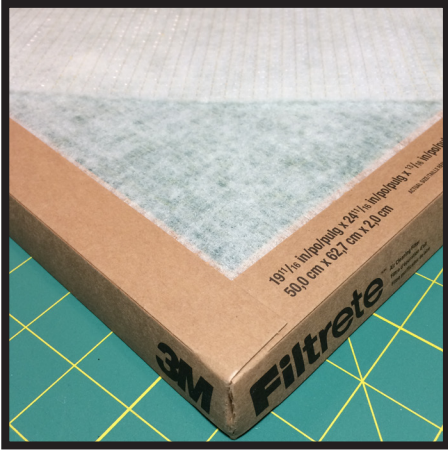
See next page for filter and installation information.

DIY Breathe Port for
"Breathe Easy"
Face Mask Pattern
by Katie Bair
www.pettingzoowigs.com

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**NOT FOR PROFESSIONAL
MEDICAL USE**

DIY Breathe Port for use with Breathe Easy Mask (Continued)



When looking for materials to repurpose for filter inserts, take time to research the properties of each type. Most commercially available filters will have technical specs available on the manufacturer's website.

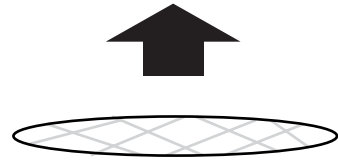
Keep in mind that some materials that work well in air filters or vacuum cleaners may be too thick to use in the port. These are designed to have air pulled through them by powerful suction pumps, not lungs.

Also consider any possible allergic reactions to irritating materials. For instance, some individuals may have increased sensitivity to synthetic fibers or natural wool.

This breathe port uses a combination of two types of filtration...



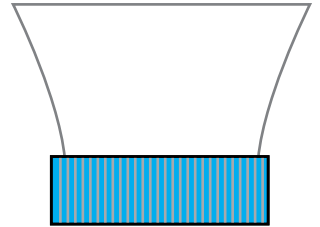
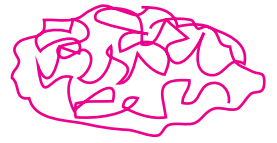
Flat Filter Disc
(light interfacing, HVAC filter, woven or non-woven cotton fabric in layers)



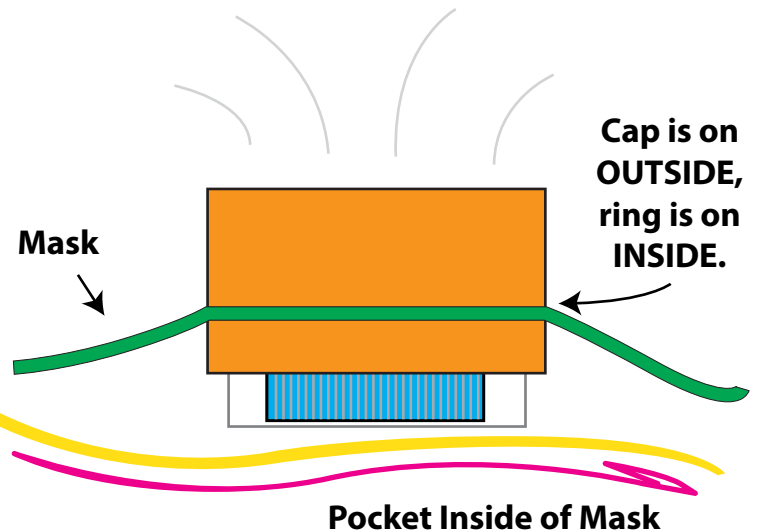
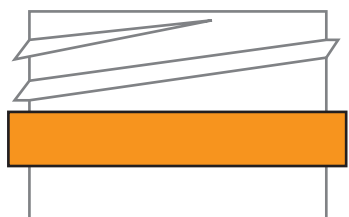
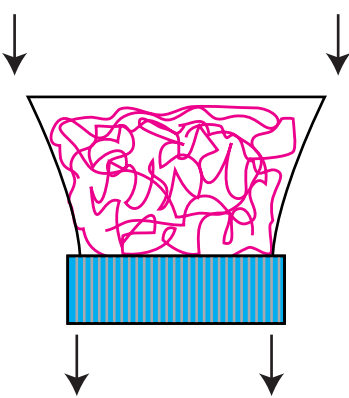
Do not use heavy interfacing or felt (too dense, blocks airflow)

Non-Woven Filler Material
(Filter floss, loose batting, used dryer sheet)

Do not use cotton ball or cellulose sponge (too dense, blocks airflow)



The two types of filtration are layered when the port is put together.



For additional filtration, a filter insert can be tucked inside of the mask pocket as well.

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by Katie Bair - www.pettingzoowigs.com

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