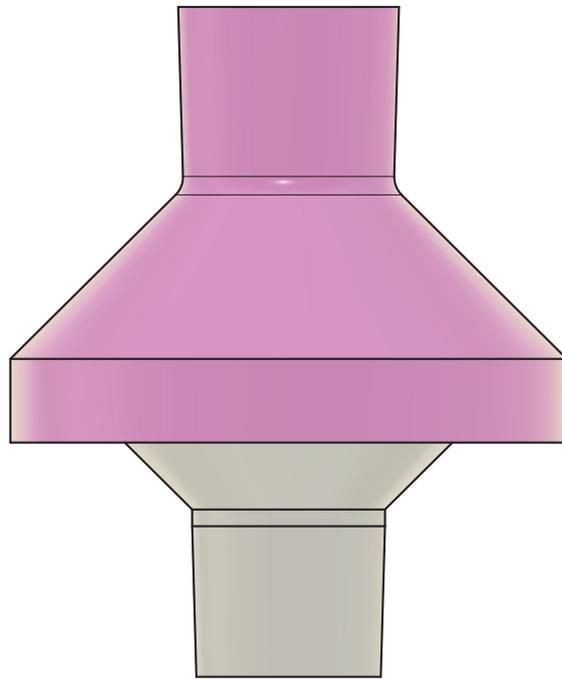


# Filter

Optimized for 3D-Printing



by 

# PROJECT COVID-19

Design is a profession that seeks to create new solutions, objects, and spaces based on everyday end-user needs. New demands and requirements for the treatment of patients with COVID-19 have appeared simultaneously and in high demand.

To address this, the Mexican Maker and Designer Community started rendering and producing 3D-Printable and Laser-Cut pieces to help Hospitals and homes tending the needs of those afflicted by the virus. These pieces were assembled, administered, and distributed to Mexico City Hospitals through Claudia Dorenbaum of TOM Mexico.

Architect Juan Carlos Baumgartner and Makers Mexico invited Ariel Rojo Design Studio (ARDS) to join the Mexico Maker Community, which began exploring how to put their creativity and machinery at the service of the medical community and society in general.

Inspired by similar pieces used in other cities as well as other solutions at first presented to TOM Mexico (while anticipating the probable depletion of medical equipment in highly dense Mexico City) Ariel Rojo designed a new printable “splitter” which allows two patients to share one single respirator at the same time. This unique Design optimized airflow, mechanical resistance, and ease of 3D printing. Note: It’s important to note that this solution is not considered “ideal” but is very viable during the COVID-19 crisis.

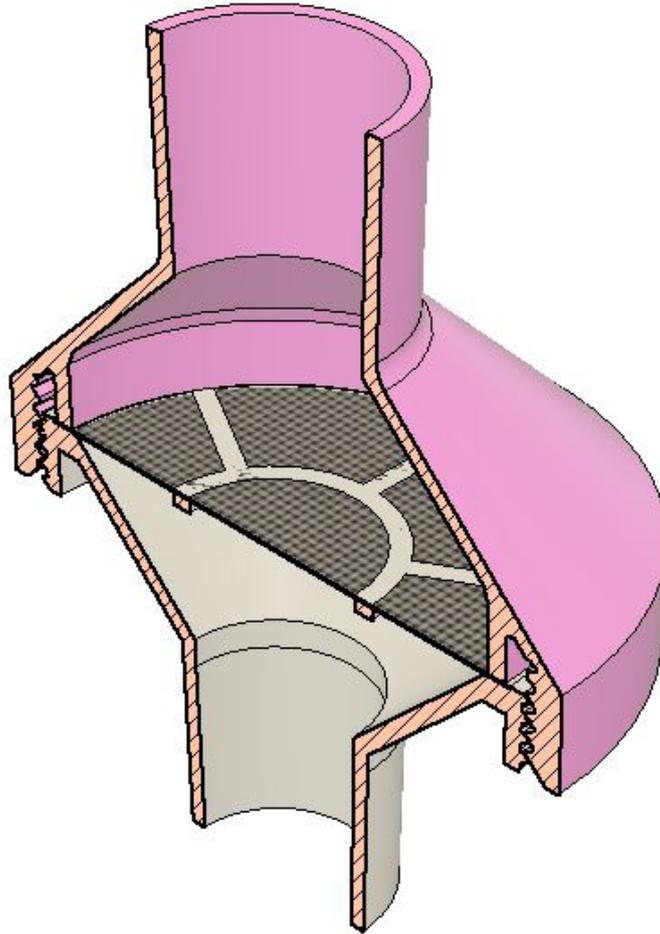
Rojo’s Studio also designed Hospital Ventilator Masks for both doctors and patients, which can connect to other medical ventilator equipment and respirator valves. Both of the above are to be used as Open Source by the worldwide 3D Maker community.

The following people contributed to this project:

Arq. Michael Rodjkind, link and coordination with the specialized medical team, and Carsten Lemme, as a member of our design team.

The PEEP valve was optimized for 3D printing and can be found on Thingiverse. Dtextor’s PandaPeep GEN2 was a great start but needed some adaptation for the Mexican markets, and our Studio designed the required customization. We recognize this small change to the original Design and are grateful to the original author and Thingiverse for promoting and making these solutions available in the service of humankind.

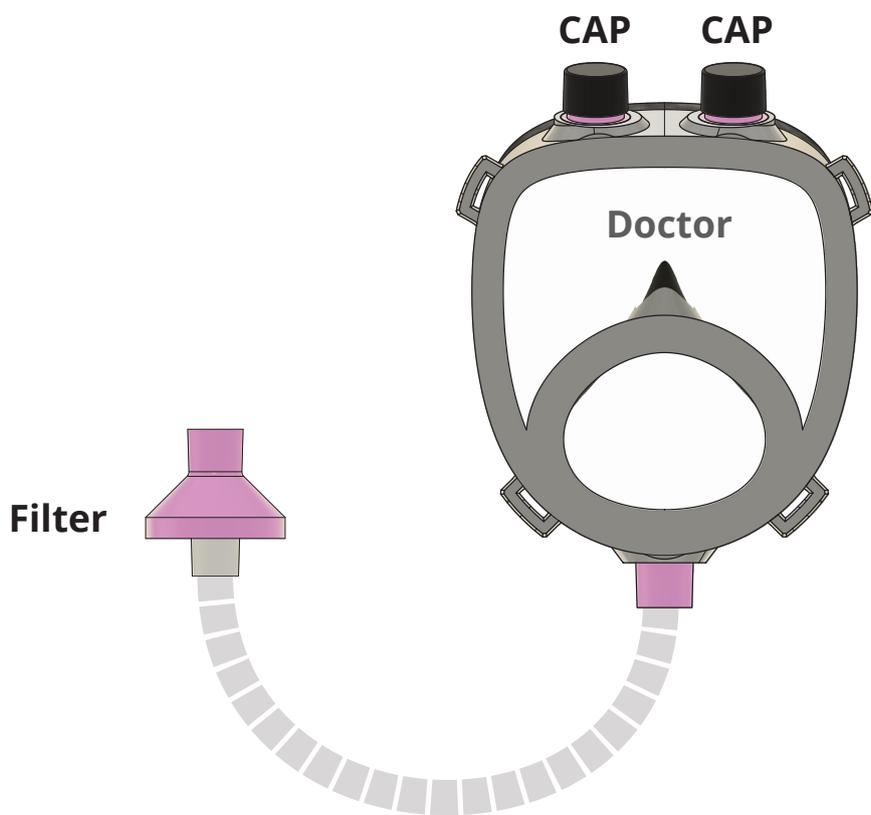
Ariel Rojo Studio and its associates develop products during a time in which we ask ourselves how we can design for a better society in our believe that Design itself must be for the good of society and collaborative.



**The Filter can hold any standart round filter (N95) and can connect to a mask or other parts of our ecosystem.**

Health Centers and producers: Please contact Makers México for additional questions or details.

ALL FILES ARE DELIVERED "AS IS" AND WITH NO GUARANTEE OF ANY MANNER (INCLUDING AND NOT LIMITED ARE COMMERCE WARRANTIES). ARIEL ROJO DESIGN STUDIO, ITS ASSOCIATES AND/OR ANYONE OWNING ANY RELATED COPYRIGHTED MATERIAL, WILL NOT BE HELD ACCOUNTABLE TO ANY CLAIM, DAMAGE OR RESPONSIBILITIES RESULTING FROM THE USAGE OF ANY PRODCUT RESULTING OR DERIVED FROM ITS USAGE, DIRECTLY OR INDIRECTLY. WE HIGHLY SUGGEST YOU GET APPROVAL FROM A SPECIALIZED MEDICAL EXPERT BEFORE USING. USE AT YOUR OWN RISK.



**Filter connected to  
a Mask**



**Ariel Rojo Design Studio**

info@arielrojo.com  
(+52) 55 5553 3856

Cordoba 35 INT. A  
Col. ROMA NORTE  
Del. Cuauhtémoc C.P. 06700  
México, CDMX