



## PARAMETRIC VENTILATED FUNNEL



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### Summary

This funnel can be changed simply by changing the opening widths and the wall thickness - customise it to suit any task.

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Tags: [parametric](#) [water](#) [tiny](#) [small](#) [large](#) [paint](#)  
[ventilation](#) [funnel](#) [vented](#) [oil](#) [coolant](#) [huge](#)

If you need a parametric funnel with a bent spout or a funnel with a separate vent tube or just a funnel, you should take a peek [HERE](#).

The stl file provided is for a small funnel with a 70mm diameter opening and an 11mm outlet diameter with a 1.5 millimetre wall thickness. (See the SILVER file screenshot above) however you are free to change any of these dimensions to suit your own requirements.

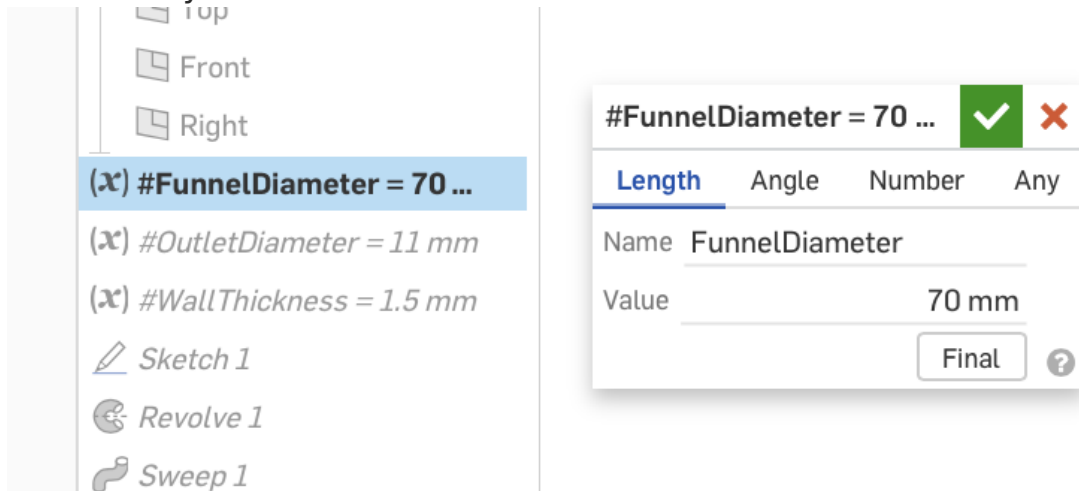
Note however, the vent is a constant diameter with a constant wall thickness, so at some point if the outlet is reduced far enough it will become smaller than it (the vent).

All design dimensions are linked to those three criteria so you can arrange an infinite number of combinations while still keeping the basic form of the funnel.

To modify these parameters you will have to open the document in

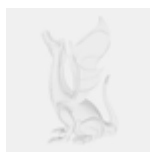
Onshape. If you don't already have one, you will need a free Onshape account. Download the “PARAMETRIC SOURCE FILE” .pdf document to access the download URL.

Modifications are simple. The dimension are at the top of the left hand column and I have provided a few examples above with a red dashed box around the parametric dimensions that need to be modified. Double-click on the parameter you wish to change and then alter the “Value” to the dimension you wish to use.



I haven't tried it yet, but printing this in vase mode might be an interesting experiment if you are looking for a disposable funnel for mixing glues or some other nasty substance.

## This remix is based on



**Onshape**

## Model files



**vented-funnel\_parametric.stl**

## Other files



parametric-source-file.pdf

[Find source .stl files on Thingiverse.com](#)

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