



# Autoclave reactor

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## Summary

Tabletop reactor model

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Tags: **reactor** **autoclave**

My first design after acquiring a 3D printer... Being a chemical engineer, I reckoned that I should model a reactor of sorts and produced this design using Fusion. Although the legs are a bit skinny and the flanges do not match the reactor's "pressure rating", I wasn't too disappointed with the result. It would make an awesome nerdy beer glass (in which case it is advisable to plug the bottom drain).

The lid can be screwed down using printed M6x20 nuts and bolts that can be found elsewhere on Thingiverse / Prusa.

I suggest to use a tree support to prevent the vessel's legs becoming encased in scaffolding (which is what I obtained using default Cura settings).

## Print Settings

**Printer Brand:**

Crealitiy

## Printer:

Ender 3 Pro

Rafts: No

Supports: Yes

Resolution: 200

Infill: 20%

Filament: PLA

As you can tell from the line pattern, the shell was printed lying horizontally. The surface should be smoother when printing upright, but I have not tried this yet - working on a cyclone vacuum cleaner!

Category: Buildings & Structures

## Model files



shell.stl



lid.stl

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

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