



Compressed Air Gun - Luer Lock Adapter



kaje

VIEW IN BROWSER

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Summary

I got this idea from a video by Stefan Gotteswinter : <https://youtu.be/GLtdXvL7cpl?t=1402> The basic idea is to be able...



0.96 hrs



1 pcs



0.20 mm



0.40 mm



PLA



4 g



Prusa
MK3/S/S+

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I got this idea from a video by Stefan Gotteswinter :

The basic idea is to be able to use blunt dispensing needles (see photos) with a standard compressed air gun in able to direct air into small openings.

I took a slightly different approach from Stefan - he used small pins to lock the adapter to the air gun tube. Instead of pins, I threaded the air gun tube and just screwed the adapter onto the tube.

In order to thread the air gun tube I just picked a threading die which would fit with a fairly coarse thread (#12-24 for my air gun, that's about 5.5mm metric). The small thread does not print well, so I ran a tap into the completed print.

To adapt this to other tubing sizes I would suggest printing with additional layers and then drilling out to the required size (or just modify the CAD file below). Do not scale the print or it will not fit Luer standard fittings.

The OnShape 3D CAD file for this is here :

<https://cad.onshape.com/documents/ffa10fcb1474a8f08919ea99/w/ddd0d016f18bb3db61164f3/e/19d87aa1b1e351b441114712>

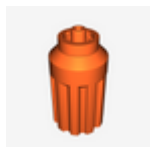
Print instructions

Print in PLA using the 3mf file provided; otherwise :

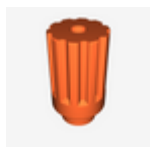
The Luer connector part of the print needs to be printed with a small layer height (0.1mm). Stefan Gotteswinter printed his entire adapter with 0.1mm layer height, but I printed with 0.2mm layer height and used adaptive layers to print the Luer portion with 0.1mm layers - this reduces print time considerably.

I used perimeters = 3 and a brim. The brim was probably not necessary but I was playing it safe.

Model files

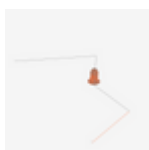


lueradapter-airgun.3mf



lueradapter-airgun.stl

Print files



lueradapter-airgun_02mm_pla_mk3s_58m.gcode

🌀 PLA 🌀 0.40 mm 🌀 0.20 mm 🕒 0.96 hrs 📊 4 g 🖨️ Prusa MK3/S/S+

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

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