



6mm to 4mm adapter and Y connector for air hose or PTFE tube



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Summary

This is just something I made because we needed a very specific thing fast at work for a pneumatic machine

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Tags: [air](#) [4](#) [mm](#) [connector](#) [hose](#) [pneumatic](#) [6](#)
[6mm](#) [4mm](#) [y](#) [collet](#) [collets](#)

I need a 4mm pneumatic tube to split into a 4mm and 6mm tube so its very spesific and probaly wont fit most use case scenarios, but if you do, you're in luck! Also comment on this model if you need something else like 6mm to two 4mm and I might see what I can do ;)

I also made a straight 6mm to 4mm so this is probably way more useful for most.

The collets work's best if printed in PETG or something similar that has a little flex as this is what clamps the tubes in place. It's also important that you get as much layer adhesion as possible with the fasteners themself as the cap is prone to snap when you put force on it, I had some PETG that was probably too wet and it kept snapping but after drying it I had zero issues.

It's pretty straightforward, put the fastener for your desired tube on the tube first, then place the collet with the cone side facing towards the connector, line it up with the correct-sized hole for your tube and screw tight, pull a little on the hose to make sure it's on there, if it easily comes loose, tighten until snug. Try not to overdo it, as it might cause the cap to snap.

I know I flattened the Y adapter but don't print it with the flat side down, or I never tried it but I am confident that will not work. so make sure to use a brim on the connectors, but for the fastener and the collets you can go brimless unless you have issues.

Model files



airhose_6to4mm_connector.stl

☐ print this standing. if you have issues cut the bottom of slightly in the slicer or use brim



airhose_collet_connectors_y.stl

☐ PRINT THIS STANDING on its one leg



airhose_collet_fastener_4mm.stl



airhose_collet_fastener_6mm.stl



airhose_collet_6mm.stl



airhose_collet_4mm.stl

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