



Adjustable Angle 3-Way Elbow, 1/2 Inch PVC Pipe Fitting Series

#HalfInchPVCFittings

UPDATE 2015-07-03



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Summary

Here is a 3-Way Elbow that you can adjust from angles 60 degrees to 180 degrees, designed to fit 1/2" Schedule 40 PVC...

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Here is a 3-Way Elbow that you can adjust from angles 60 degrees to 180 degrees, designed to fit 1/2" Schedule 40 PVC pipe. It's part of a series of 1/2" PVC fittings I'm designing to supplement conventional plumbing fittings.

After creating the reconfigurable 22.5 and 45 degree angle elbows, I wondered if there was an easier way. They take a long time to print and use a lot of plastic. And then I realized I could use the pipe itself as the axle. That brought about the adjustable elbow. Check my other designs for other 1/2" PVC fittings.

Print the base twice and the nut of your choice once. The 3-way nut lets you use connector as a 3-way elbow. The 2-way nut lets you cut a small piece of pvc to use as a hinge for a 2-way elbow. If you want to use the elbow in the middle of a piece of pipe, simply use it without a nut. See pictures. Once you have the angles positioned, glue to secure.

I put the triangular holes in the pipes to help the glue dry. On the first iteration, I noticed that being air tight prohibited drying. The ledges on the top of the horizontal holes make it printable without support structures.

I will continue to add new fittings to the series and share them as a derivative of my original 3-Way Elbow. Please let me know if there is a fitting you need that I haven't created yet.

You are highly encouraged to make new derivatives. Please tag your new creations with #HalfInchPVCFittings.

UPDATE 2015-07-03 - I tightened the tolerances slightly for a better fit. Make sure your printer is well calibrated before printing.

This remix is based on



Adjustable Angle 3-Way Elbow, 1/2 Inch PVC Pipe Fitting Series #HalfInchPVCFittings UPDATE 2015-07-03

by [tonyyoungblood](#)

Model files



adjustableelbow2waynut.stl

adjustableelbow3waynut.skp



adjustableelbow3waynut.stl

adjustableelbow2waynut.skp



adjustableelbowbase.stl

adjustableelbowbase.skp

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