



## COMPRESSOR ADAPTER FOR JABSCO PARMAX PUMP CONNECTOR



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### Summary

An adapter to make cleaning out water lines in your boat, caravan or RV a breeze. (Literally). UNTESTED - DANGEROUS!

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Tags: [water](#) [press](#) [boat](#) [air](#) [winter](#) [dry](#) [pump](#)  
[caravan](#) [compressor](#) [rv](#) [fitting](#) [blow](#) [grey](#) [winterise](#)

This is NOT a PRESSURE FITTING - it's an adapter to blow through an open air line.

If you have a boat or cabin or rv or anything which you need to prepare for winter, blowing out the water lines is the simplest way of ensuring nothing freezes.

If you have a PAR MAX or JABSCO pump and a compressor, this will make it easy but please use this model in the knowledge that you are a test dummy. How big a dummy depends on how careful you are when you are using it.

I have been using a cobbled together mix of metal fittings which screw into the system use with a direct fitting this leaves no margin for error if the system is over-pressurised, and something in the system is likely to

break.

The printed version should blow off the air line without damage if that happens.

**NOTE - I HAVE NOT TESTED EITHER OF THESE IN USE** - that won't happen until September 2023, and I expect that the following performance issues may arise if you wish to test before then:

1. Boyle's and Charle's Laws might be working against us. The reduction in area at the fitting compressor fitting does cause the fitting to heat. I have included the fully printed fitting and am curious to see if it works, but recommend the one with the metal fitting screwed in. Even then, I have no way of knowing if it will heat to the point of destruction of the threads.
2. Adding compressed air to your water system may have nasty consequences if you don't have a tap or two open when you fire up the compressor.
3. The fitting is designed for a push-fit of a standard Jabsco spear-type fitting. This SHOULD provide plenty of safety margin in the event of accidentally pressurising the system and act as a blow-off valve, and after a little use will need to be held in place so it will be easy to monitor temperature. I consider that to be a safety feature!

If you've read all that and still think this is a great idea (it is!) and you feel like living dangerously - print as follows:

PETG - 5 perimeters 0.4 nozzle, 0.2 QUALITY layer height - a 4mm brim will ensure that you don't have any printing mishaps. No need supports if you can tolerate cleaning up a little mess on the inside- otherwise supports just for the internal step.

## Model files



### **fully\_printed.stl**

☐ UNTESTED - not recommended



### **threaded.stl**

☐ UNTESTED - recommended version

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