

# Cleaning The Vacuum Relief Valve On Your Profitec Pro 300

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## Introduction

If you're having a difficult time figuring out how to clean your vacuum relief valve on your Profitec Pro 300, we've got the perfect solution to help you tackle even the most stubborn scaling to prevent build-up. To put it simply, scale build-up can occur in the machine over time due to the crustification of minerals from the hot water. Scale builds up on the boiler and can lead to a number of issues with your dual boiler espresso machine including causing your boiler to pressurize incorrectly. To save you time and your wallet, here are the tools and steps that you'll need to properly descale your Profitec Pro 300:

### Tools You Will Need:

- 2.5mm Allen wrench
- 10mm wrench
- 12mm wrench
- 13mm wrench
- 14mm wrench

### Step 1:

Start by removing the lid from your machine. You will not need to remove the housing completely, just the x4 2.5mm Allen screws around the top.



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## Step 2:

Once those have been removed, the top of the machine should come off easily, and you'll see a majority of the internal components. What you're going to be removing next is the assembly shown below. The vacuum relief valves in these machines are actually integrated with the pressure stat.



## Step 3:

I would recommend taking the pressure stat off first. It should unscrew fairly easily. You should label your wires or take a picture beforehand so you'll remember that the black wire goes on the top lead and the grey wire goes on the bottom lead.



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## Step 4:

Next, remove the tubing from either side, it's pressed onto the nipple fittings. Your machine may have a zip-tie holding it to the nipple fitting on the right. If it doesn't, you may otherwise see an extra little piece of tubing either still attached to the right side nipple fitting or stuck inside the end of the tubing, it will look something like the photo above.



**If your machine has this, do not remove it. It is needed for the silicone tubing you are removing to seal onto the nipple fitting appropriately.**

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## Step 5:

Once the tubing is removed, you will start undoing the nuts that hold the assembly in place. You will need to use your 10mm wrench to brace the valve, and your 14mm wrench to break free the nut at the end.



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## Step 6:

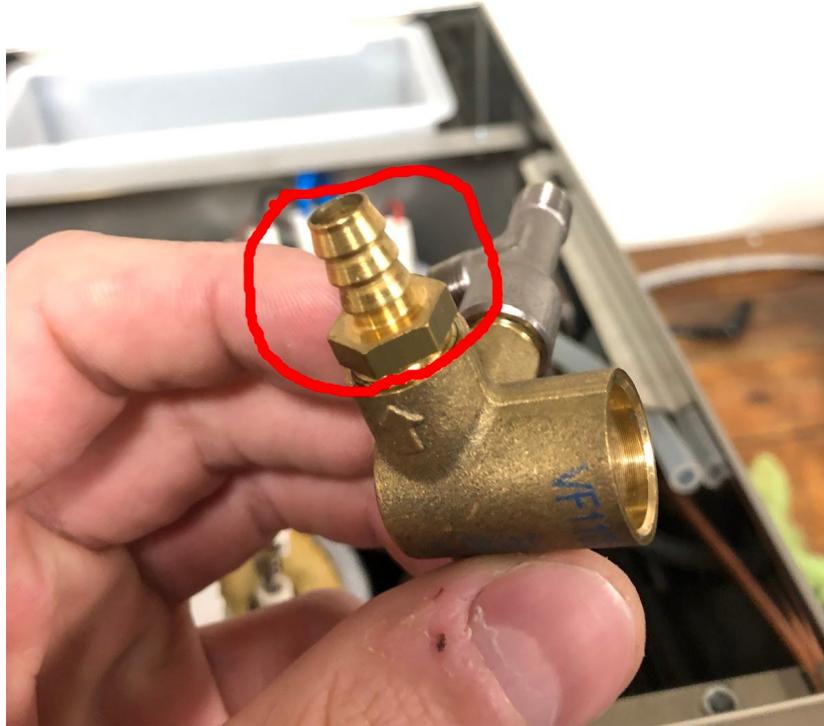
All that should be left is the nut from the underside of the assembly. Use your 13mm wrench to remove the nut.



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## Step 7:

You should now have the assembly removed and in your hand. The side with the arrow, circled in the photo above, is going to be the side you want to undo and clean. To open this side, use your 12mm wrench.



## Step 8:

Once you have it open, there are 2 pieces on the inside; a spring, and a sealing block (see photo below). The spring will come right out. The sealing block can be a little stubborn, so you may need to use a paperclip, grab it, or shimmy it out from its place, but it should come out.



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## Step 9:

You'll want to check over these pieces for build-up, as well as the inside of the assembly. The sealing block also has a rubber seal on the back of it, make sure this is not worn, brittle, cracked, etc. or the block may not seal correctly.



## Step 10:

Once you've cleaned up the valve and made sure everything looks good, you can reassemble your Profitec Pro 300.

Simple enough right? Remember, it's important to properly descale your Profitec Pro 300 to avoid damaging your espresso machine in the long run. Refer back to our steps whenever your machine needs proper cleaning to ensure it runs smoothly and maintains its long-lasting quality.