

A non CE approved Adapter for Poseidon Disco DSV to Poseidon Atmosphere

What is written here is what I did..and it may have errors, so please do not copy it.



The Adapter with set screws, to be fit to the DSV



Inside view, this o-ring is sealing! It must be in the proper position and in good shape, greased.



DSV and adapter. The o-ring on the mouthpiece, left side, on the DSV is only for stability reason, it has NO sealing function!!!



Mask, Discovery DSV house and adapter

Right side: the original o-ring in the mask, take care it is lying in the correct position.





Put the two original Atmosphere regulator holders to the adapter, as seen in the picture. As later on you are not able to put in the screws.



Take care, the inner o-ring is lying correct and in good shape

Place the adapter with the holders in the correct way to the mask





When tighten the screws, you must screw each screw step by step in a row, so start with one, screw a bit in...go to the next screw a bit in..go the the next and screw a bit in...and so on...until they are all in and the holder are flat and perfect shape with the mask. As they should be.



Review the o-ring is still in good position.

Then, you can fit in the DSV



Be sure the second o-ring is installed as seen on the mouthpiece side. This o-ring does NOT seal. It is for stability and fixing reason only.

Before you try to slip it on make sure the 4 set screws are not screwed in too deep. Then the adapter will not slip over the shoulder of the mouthpiece



Slip it on in the correct way as seen here. (do not tight the set screws now as long the DSV in this position!!!)



Now push the DSV into the adapter, so the o-ring is nearly covered

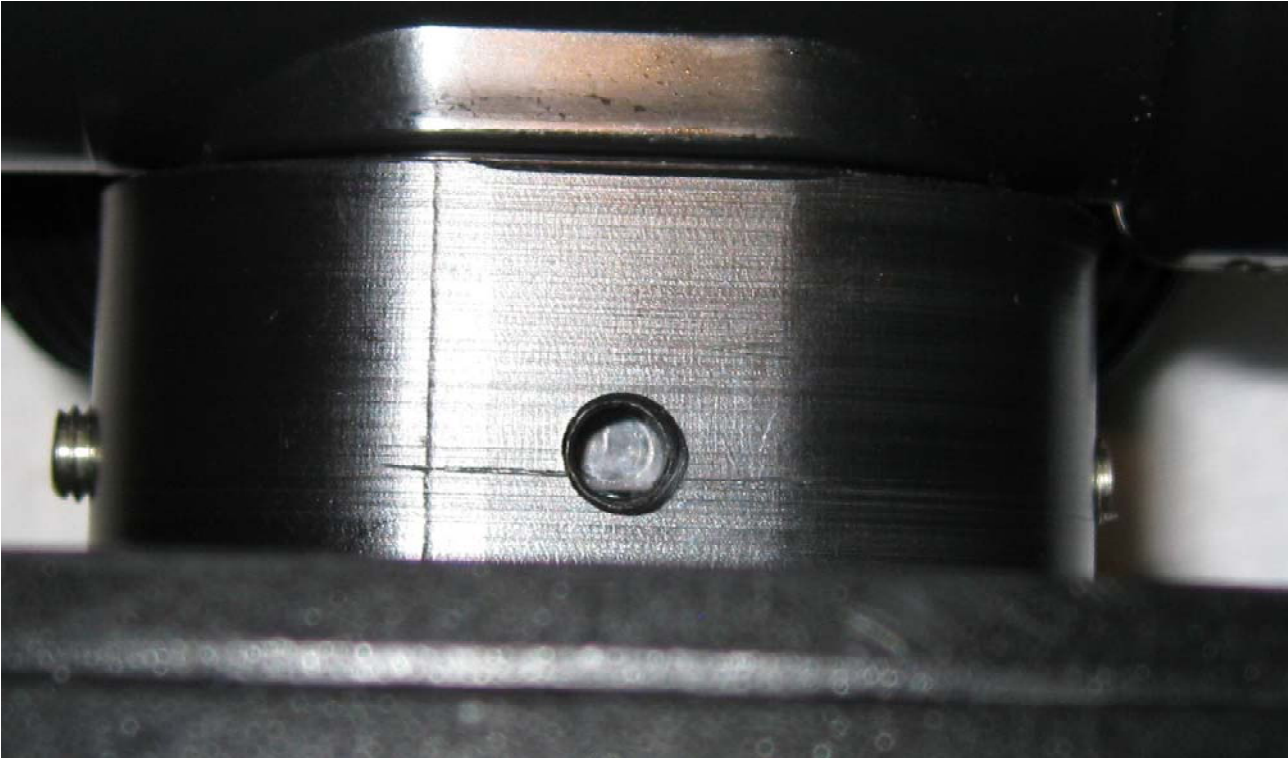
And now you can softly tight the set screws. DO NOT TIGHT them too much. It is enough if you feel the first “ pressure” when screwing in- see next section why!

When screw in with too much force you may break the mouthpiece section of the DSV !!!!!!!!!!!!!



When the DSV is not pushed in enough the o-ring will not sealn and further more the set screw will be on the small shoulder of the mouthpiece!!! And this will cause a malfunction.

When pressed in ...the o-ring seals and the set screw wil grab just behind the shoulder and will hold the DSV in position and a slip off is impossible, unless you brake it by heavy force.



Here you see that the mouthpiece shoulder is just behind the threaded hole, so the setscrew will fit and grap directly behind.



Here you see where the screw has to be!!!



The set screw should only be tighten softly, one by one!!! If done, they are less than a mm below the surface of the adapter

And finally it looks like this....



As of now the most compact and easiest to mount adapter for the combi Atmosphere-Disco DSV