

Performing a vacuum test

STEPS

STEP 1

Check the vacuum pump

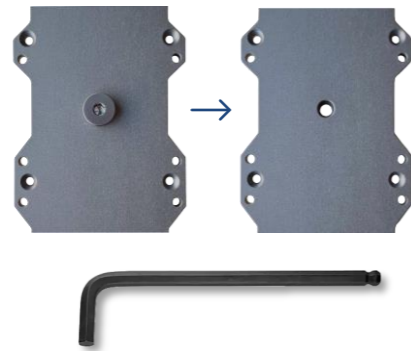
Check the good sealing of the vacuum pump with your finger, during at least 2 minutes, before using it.



STEP 2

Remove the vacuum hole plug

Unscrew the vacuum hole plug with a size 8 Allen key.



STEP 3

Installation of the vacuum pump

Screw the vacuum adaptor plug with a size 22 flat metric wrench.



STEP 4

Vacuum test

Pump till 10" of mercury (in.Hg) or 34 kPa (0.34 bar) then wait for at least 15 minutes in order to verify that the vacuum level is holding.

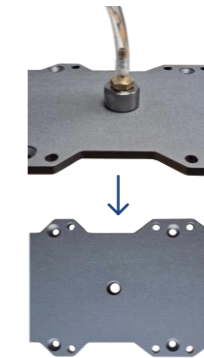


The needle may drop of 1/4" of mercury because of temperature changes.

STEP 5

Remove the vacuum pump and adaptor plug

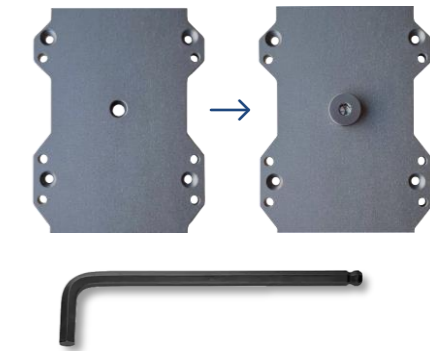
Unscrew the vacuum adaptor plug with a size 22 flat metric wrench. Then, allow time for the system to fill with air.



STEP 6

Put back in place the vacuum hole plug

Check first that the two o-rings on the plug are sufficiently lubricated with silicone grease and in good condition then screw it firmly but not too strongly using a size 8 Allen key.



Bill of materials

Vacuum hole plug (titanium) [Rev. 2]
P/N: 40010-0036-TI-V2



IKELITE 47011 vacuum pump (white or red model)
P/N: 40050-IKELITE-47011/WHITE or 40050-IKELITE-47011/RED



Hose Connector, Straight Hose Tail Adaptor (1/4in ID)
P/N: 40050-RS-5067187



Vacuum adaptor plug (titanium) [Rev. 4]
P/N: 40010-0035-TI-V4



NOTES



WHEN TO PERFORM THIS TEST ?

- After each opening of the unit,
- After a long period of storage,
- If you have any doubt on a potential leakage (for instance, if the main connector and/or the SVS plug and/or the SVS sensor and/or the POD transducer is/are « shaking » when you touch them).



Do not power the system during the vacuum test in order to avoid overheating of the electronics and possible damage of the unit.



If the vacuum test fails then **DO NOT PUT THE SYSTEM INTO THE WATER** and troubleshoot the issue with the help of ITER Systems team (support@iter-systems.com).



For this test, you may have to use PTFE sealing tape on the hose connector (P/N 40050-RS-5067187) in order to get a good sealing.



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1.00	20/09/24	Initial document	MSE	DMA

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DESCRIPTION

Performing a vacuum test on B3 Sigma housing

PROJECT:

Bathyswath-3

All dimensions in mm – Original frame size: 400x280
www.iter-systems.com - info@iter-systems.com

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