

Reconnecting the manipulator to MST

When all the operations of substitution, modification etc. have been executed, the diagnostic(s) can be mounted on the vessel in the following way (repeat actions 4...10 for each manipulator):

1. ask permission to the run coordinator of the day, and to the coordinators of the remaining days of the week, to install the probe on MST;
2. annotate both MST and roughing system pressure;
3. close the V1 (or V2) valves (see Fig.2) used to rough pump the VAT valves, and disconnect the KF adapters from the VAT valves. The remaining V1,V2 valves should be already closed
4. put the instrument in the same porthole, with the same orientation (use the signs on the vessel); close, without tightening, the clamp (2) and the support (1) of SXR1,3,4 (see Fig.3);
5. rotate the instrument around its axis until it is in the same position as before (help with the signs on the vessel);
6. tighten the support (1) of SXR1,3,4 and AFTER THAT tighten the clamp (2) (see Fig.3) (the alignment of the diagnostic is made with the rigid supports, not with the clamp!);
7. connect the electrical cables on the flange;
8. connect the tubes of the roughing line;
9. open the valves of the roughing line. First the V1 valve (Fig.2), and the roughing line should increase and then decrease quickly. When roughing pressure is around 13 mTorr open the second valve, V2 (Fig.2) (for SXR2 this valve is in the rear part). Pressure will increase to several mTorr and will decrease slowly; it will take up to two hours to get to 10 mTorr;
10. after a few hours, if there are no objections from the other, or (better) the following day, and if the MST vacuum is ok it is possible to open the VAT valves and then shutter them. Pressure should not change;
11. for probe SXR1, use the white spacer (see Fig.1) and put it horizontally.

Remember to annotate the installation of the probe and the opening of the VAT valve in the MST vacuum logbook, along with the date, time, and pressures.

If the probes need to be inserted then follow the *Checklist (Inserting/Extracting the probe)*.

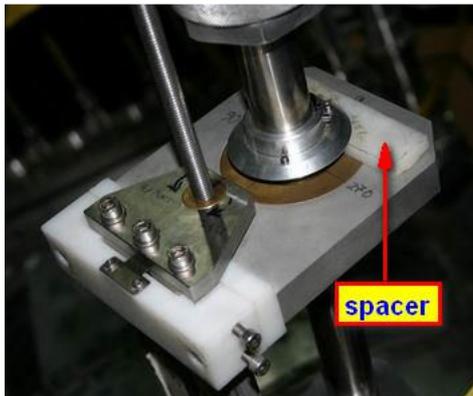


Fig.1

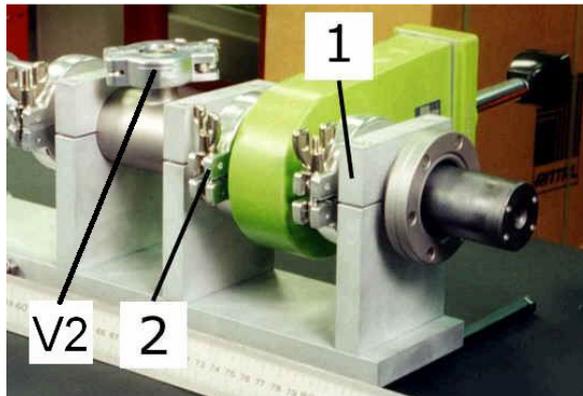


Fig.3

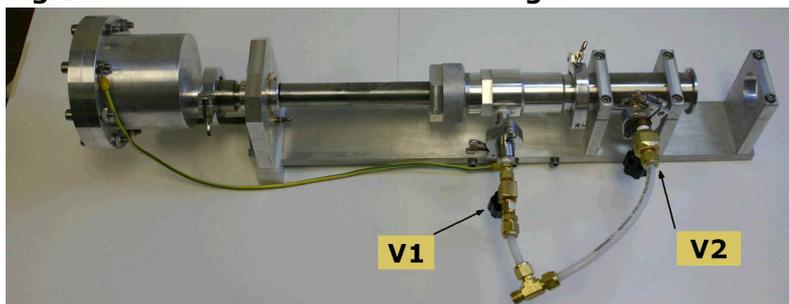


Fig.2