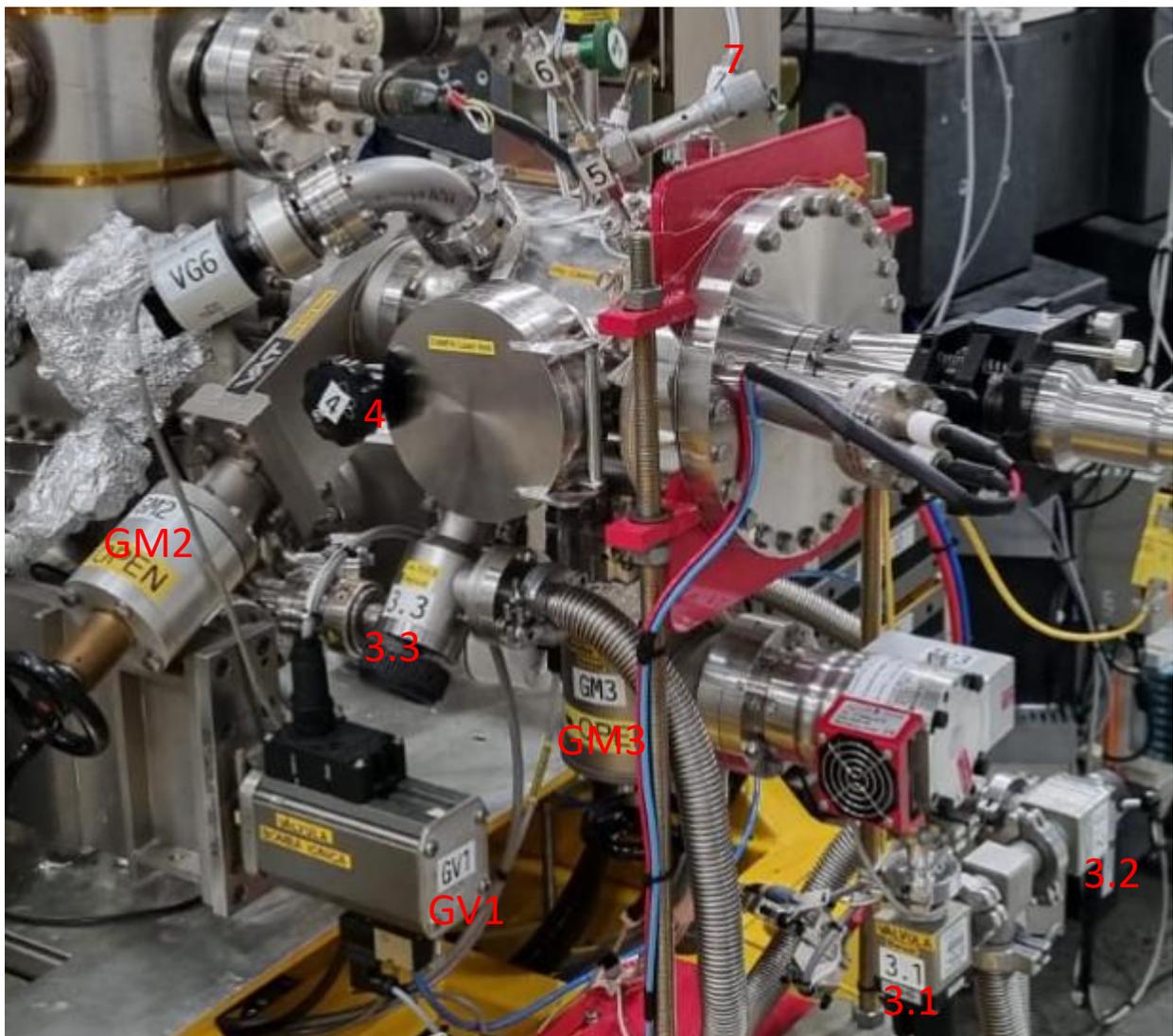




Venting

1. Certify that the valves **GM2**, **3.3** and **GM3** are closed;
2. Unlock the door lock **4**;
3. Open the venting valve **7** to introduce N₂;
4. Wait until the loadlock pressure reaches 1000 mbar
5. Open the load-lock door and remove/insert the sample holder.





Pumping

1. Close the load-lock door **4** and switch off the venting valve **7**;
2. Switch off valve **3.1**, open the valve **3.2** and slowly open valve **3.3**;
3. Wait until the pressure reaches $\sim 1 \cdot 10^{-2}$ mbar;
4. Close valve **3.3** and then switch off valve **3.2**.
5. Switch on valve **3.1** and slowly open valve **GM3**.
6. Before transferring the sample, close **GV1** and the M6 valve **GV3**.
Switch off the analyzer.
7. Wait until the pressure reaches $\sim 6 \cdot 10^{-6}$ mbar before transfer.



8. After transferring and closing **GM2** open **GV1** (ionic pump)