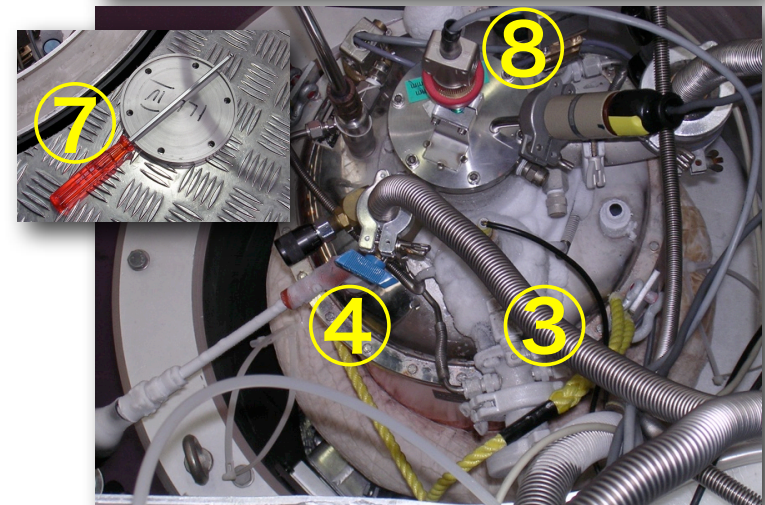
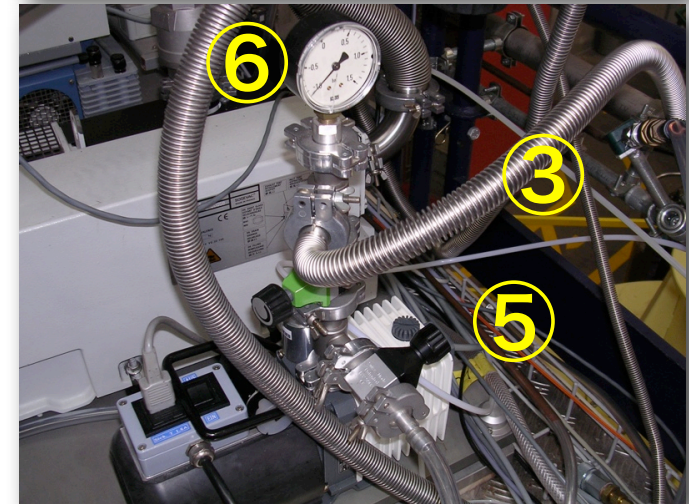
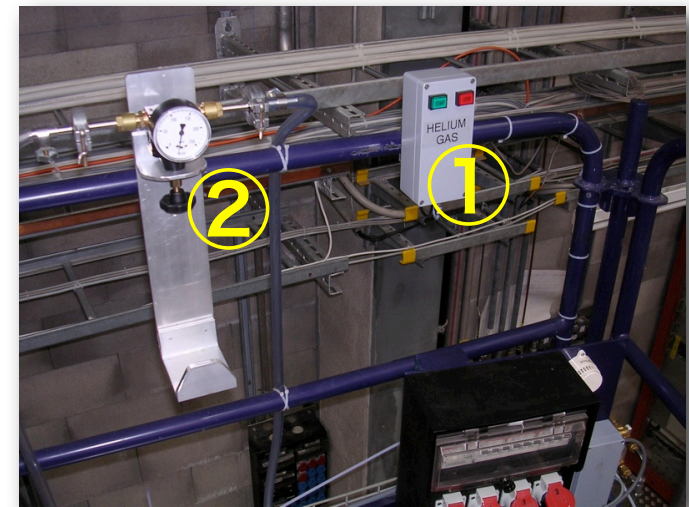


Remove sample on FOCUS cryostat

1. warm up cryostat to 85 K (e.g., 'run tt 85' in SICS)
2. enable He supply: press **GREEN button** ① on the rear side of the FOCUS roof. **manometer** ② will increase (supply will automatically switch off after 15min or press RED button, when not needed anymore).
3. purge **tube** ③ from pump to cryostat
 - a. make sure **blue valve** ④ on cryostat is placed on horizontal position
 - b. close **valve to He supply** ⑤
 - c. switch on pump, see **manometer** ⑥ on pump to decrease
 - d. switch off pump
 - e. open **valve to He supply** ⑤, see **manometer** ⑥ on pump to increase
 - f. repeat 1x again (b)-(e)
4. open **blue valve** ④ on cryostat upwards to vertical position, cryostat will be filled with He gas
5. make sure **cap** ⑦ of cryostat is in reach
6. detach **manometer and thermometer cable** ⑧ on sample stick of cryostat
7. open screws on sample stick of cryostat
8. slowly remove sample stick and immediately place **cap** ⑦ to avoid air contamination
9. attach **cap** ⑦ with screws
10. purge cyostat
 - a. close **valve to He supply** ⑤
 - b. switch on pump, see **manometer** ⑥ on pump to decrease
 - c. switch off pump
 - d. open **valve to He supply** ⑤, see **manometer** ⑥ on pump to increase
 - e. repeat 1x again (a)-(d)
11. put **blue valve** ④ to horizontal position
12. close **valve to He supply** ⑤



Insert sample on FOCUS cryostat

1. warm up cryostat to 85 K (e.g., 'run tt 85' in SICS)
2. make sure sample is at correct height, shielded at top with Cd
3. make sure sample stick is completely dry (otherwise it will get frozen and blocked in cryostat - explain next user yourself!)
4. make sure pump is switched off, **He supply ①** enabled and **tube ②** from pump to cryostat properly purged (otherwise refer to 'REMOVE SAMPLE' above)
5. open **valve to He supply ③**
6. place **blue valve ④** of cryostat upwards to vertical position, cryostat will be filled with He gas
7. make sure sample stick with sample mounted is in reach
8. open screws of cap, remove cap and immediately insert slowly sample
9. attach sample stick with screws
10. purge cryostat (see point 10 above 'REMOVE SAMPLE')
11. close **valve to He supply ③**
12. attach **manometer and thermometer cable ⑤** on cryostat
13. switch on pump and keep on pumping to 10 mbar displayed on **manometer on the rack ⑥**
14. at 10..50 mbar, switch **blue valve ④** of cryostat to horizontal position
15. switch of pump
16. now you may start cooling your sample

