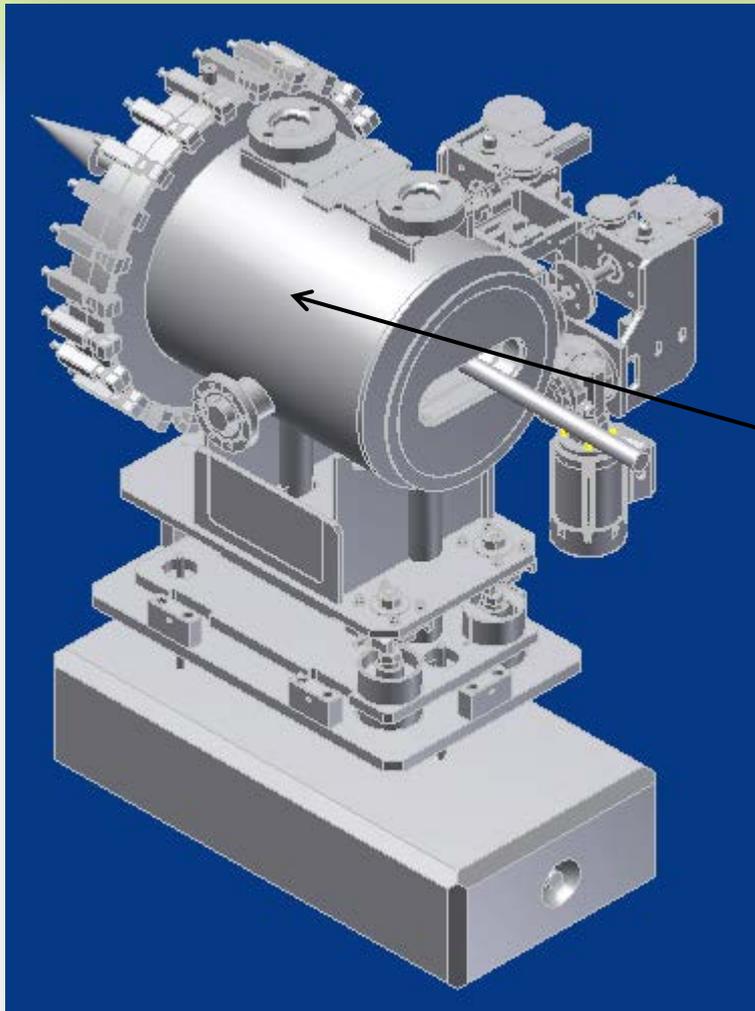


WHERE TO PUT AN EXTRA PUMPING PORT?



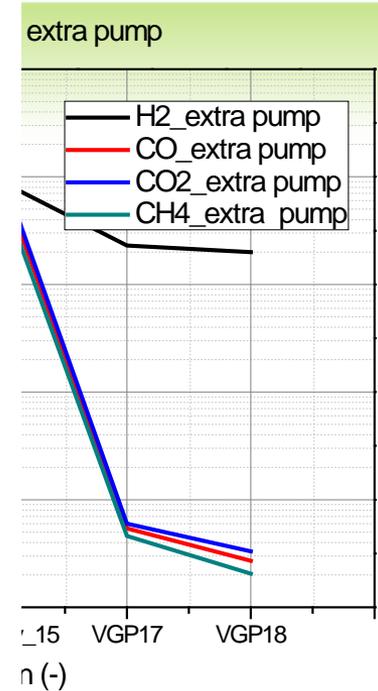
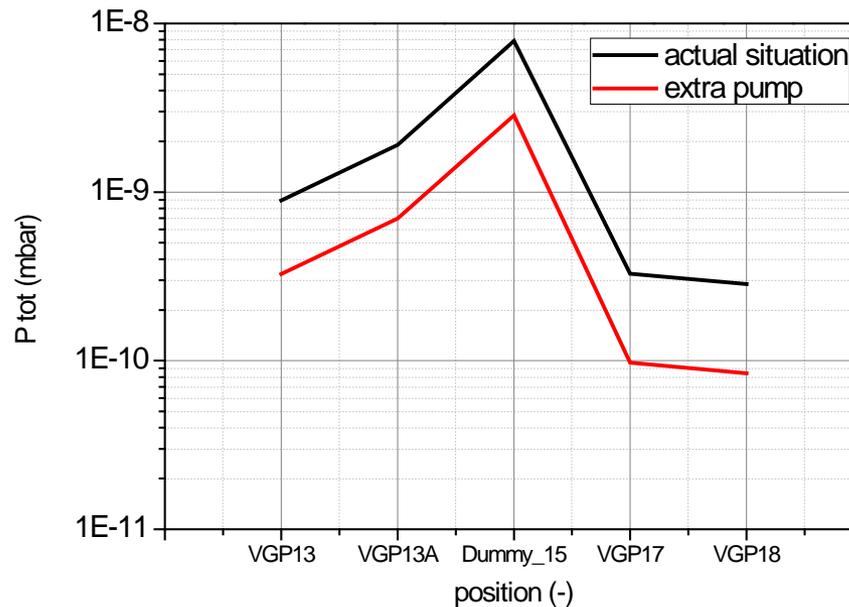
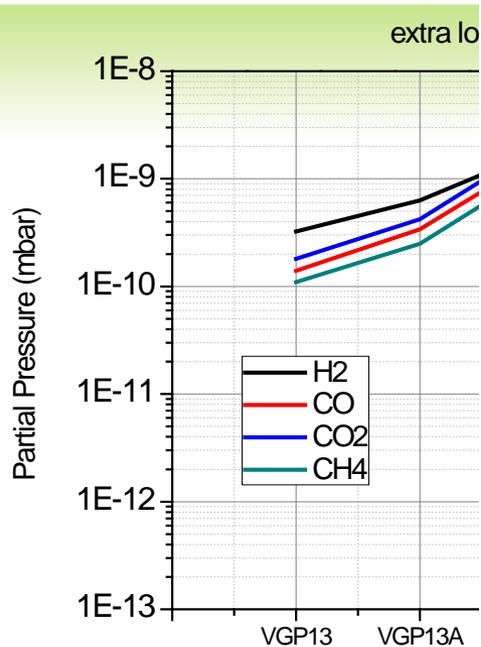
DUMMY 15 EXTRA PUMPING PORT



DN 150 flange on the side of
the dummy 15:

- Beam screen conductance!
- Pump installed outside of
the shielding! (?)

DUMMY 15 EXTRA PUMPING PORT: CASE STUDY



Input data:

- Gas load multiplied by a factor 100;
- No water gas load considered (pump-down time > 1000 hours);
- Beam screen conductance taken into account;
- Extra Sputter Ion Pump connected + sublimator;
- Extra SIP connected outside of the shielding;
- Data in the middle of the dummy 15 added.

* Magnets gas load on septum 16 added: thanks Mike!

CONCLUSIONS

- ③ The sector has been simulated in the very worst conditions (enormous gas loads; low pumping speed);
- ③ The extra pumping port located on the dummy 15 helps coping with these gas loads;
- ③ A different position and a different connection would be more effective.

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