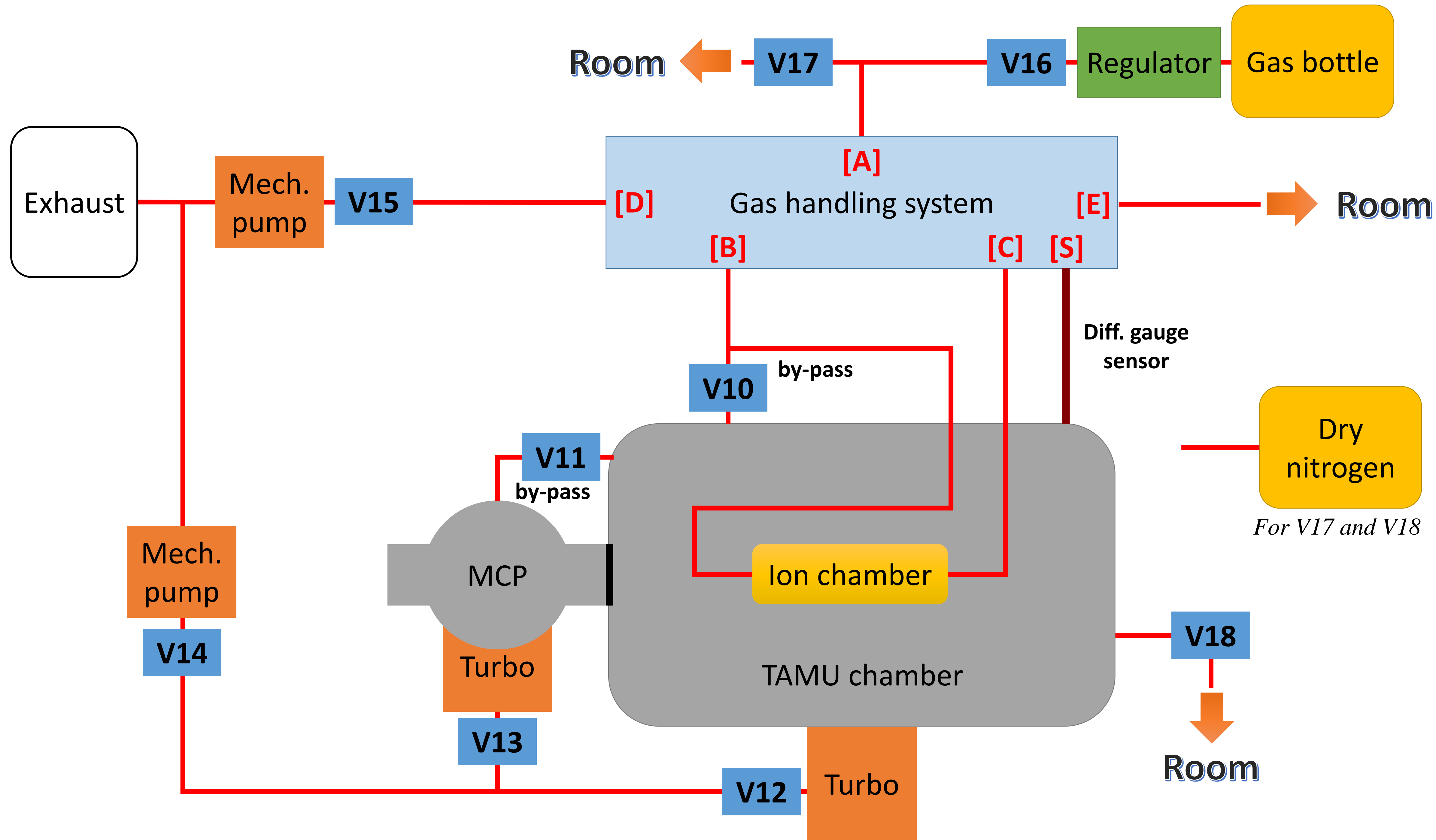
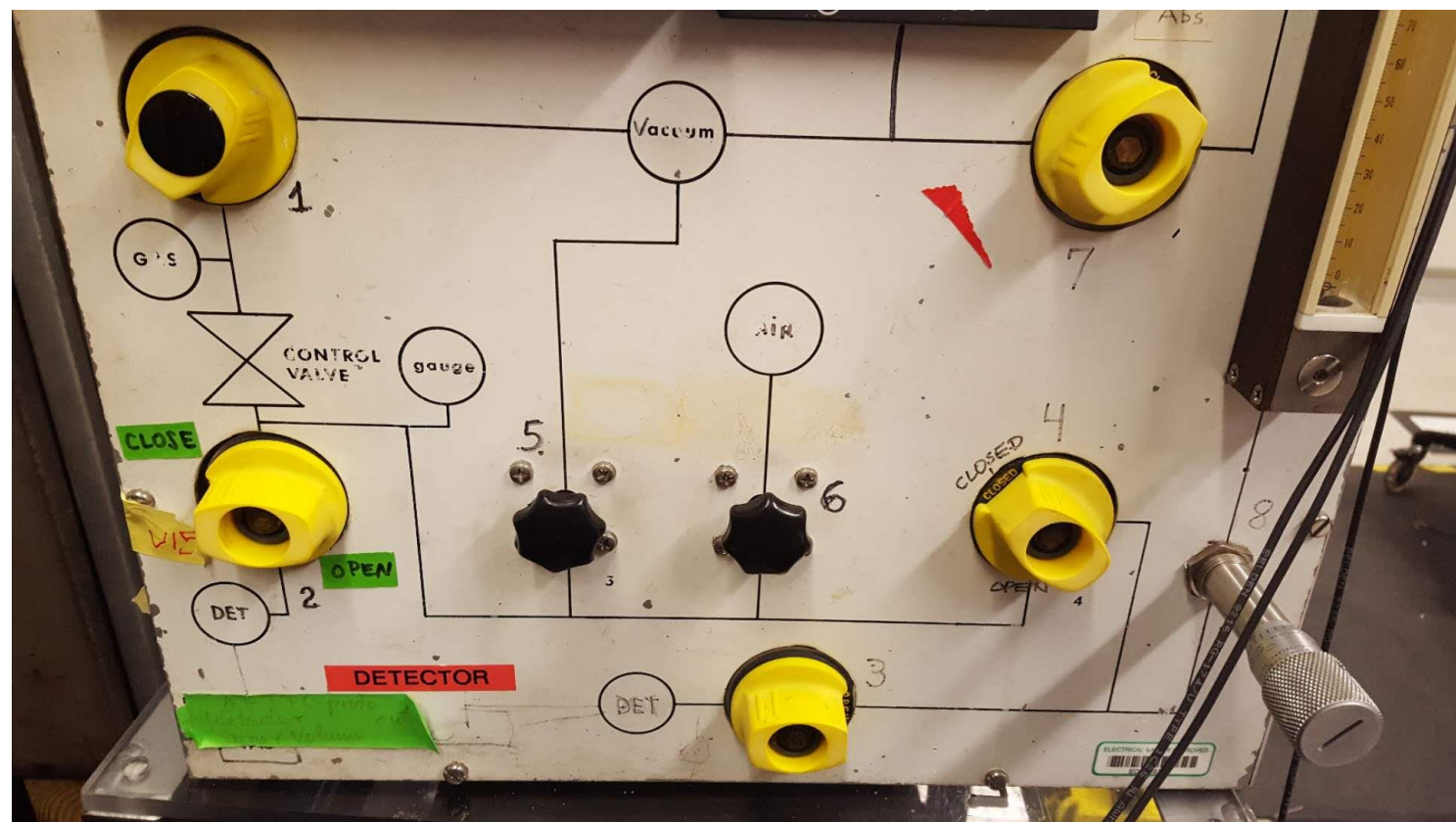
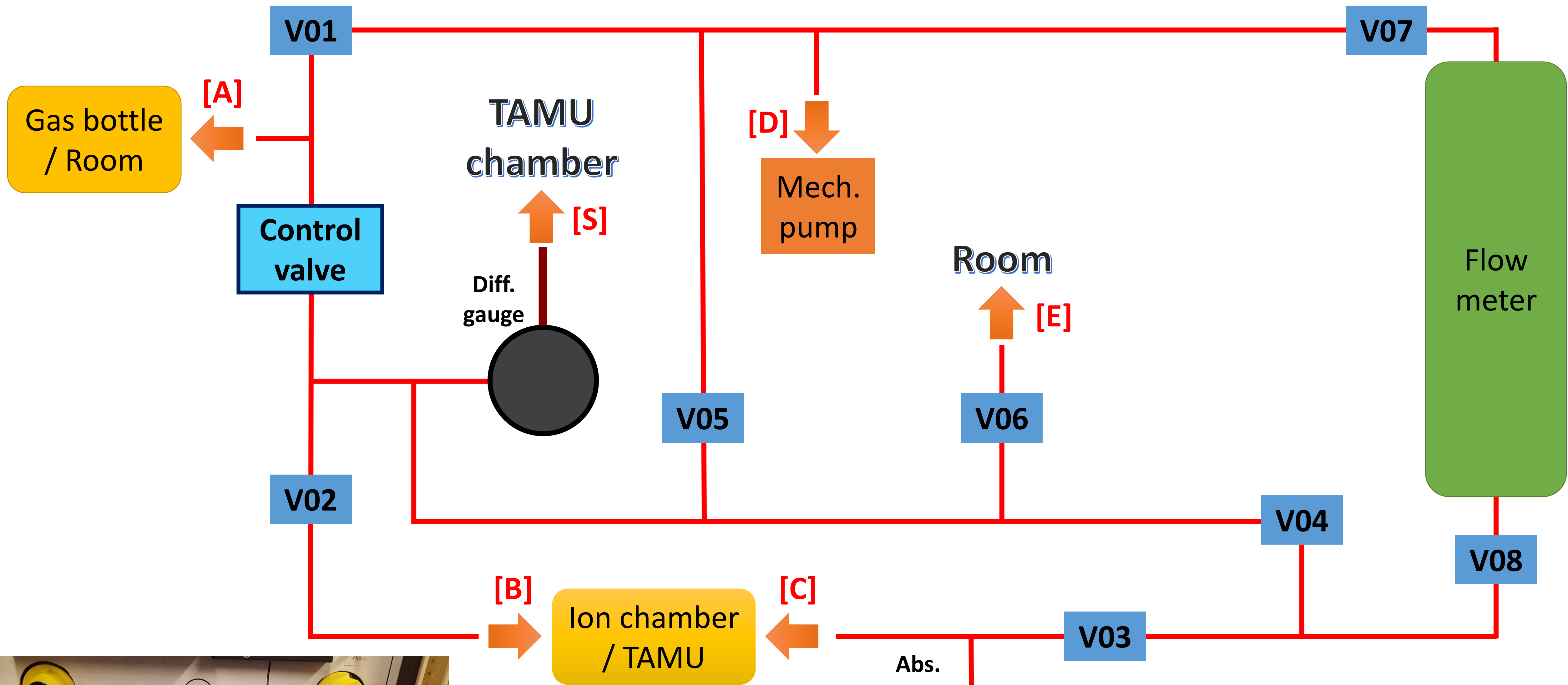


Steps:	P0	P1	P2	P3	P4	P5	P6	P7	P8
Remarks:	Initialize. Merge IC, TAMU, MCP, GHS volumes.	Start pumping. Wait till 500 mTorr. Monitor diff. pressure.	Isolate each component, turn on turbos	While waiting to reach 1 mTorr, turn on GHS mech. pump	Reached high vacuum, turn on ion gauges.	Gas to IC. Gradually set the control valve. Wait till IC 300 Torr.	Before switching to abs. gauge.	Switch to abs. gauge.	Running experiment.
Mechanical components: 0 means closed, 1 means open, 0.5 means in between (usually needs manual adjustment)									
AT-TPC is vacuum	0	0	1	1	1	1	1	1	1
V1	1	1	0	0	0	0	0	0	0
V2	1	1	1	1	1	1	1	1	1
V3	1	1	1	1	1	1	1	1	1
V4	1	1	1	1	1	1	1	1	1
V5	0	0	0	0	0	0	0	0	0
V6	0	0	0	0	0	0	0	0	0
V7	1	1	1	1	0	0	0	0	0
V8	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
gas regulator	0	0	0	0	0	0.5	1	1	1
V10, IC-TAMU by-pass	1	1	0	0	0	0	0	0	0
V11, MCP-TAMU by-pass	1	1	0	0	0	0	0	0	0
V12, turbo for TAMU	0	1	1	1	1	1	1	1	1
V13, turbo for MCP	0	1	1	1	1	1	1	1	1
V14, mech to turbos	0	1	1	1	1	1	1	1	1
V15, mech to GHS	0	0	0	1	1	1	1	1	1
V16, gas to GHS	0	0	0	0	0	1	1	1	1
V17, Room/N2 to GHS	0	0	0	0	0	0	0	0	0
V18, Room/N2 to TAMU	0	0	0	0	0	0	0	0	0
Components that run on electricity: 0 means off/closed, 1 means on/open, 0.5 means auto									
mech. pump for turbo	1	1	1	1	1	1	1	1	1
mech. pump for GHS	1	1	1	1	1	1	1	1	1
turbo for MCP	0	0	1	1	1	1	1	1	1
turbo for TAMU	0	0	1	1	1	1	1	1	1
control valve	1	1	0	0	0	0.5	0	0	0.5
diff. gauge	1	1	1	1	1	1	1	0	0
abs. gauge	0	0	0	0	0	0	0	1	1
HV for IC, Si, MCP	0	0	0	0	0	0	0	0	1
HV for HPGe	1	1	1	1	1	1	1	1	1
Pre. Amp of IC	0	0	0	0	0	0	0	0	1
Regular gauge for TAMU	1	1	1	1	1	1	1	1	1
Ion gauge for TAMU	0	0	0	0	1	1	1	1	1
Ion gauge for MCP	0	0	0	0	1	1	1	1	1





TAMU volume

Ion chamber

VCO-M 1/4"

VCO-M 1/4"

VCO-F 1/4" ~ 50cm tube

VCO-F 1/4" ~ 50cm tube

VCO-M 1/4"

VCO-M 1/4"

KF-16

VCO-M 1/4"

VCO-M 1/4"

VCO-M 1/4"

