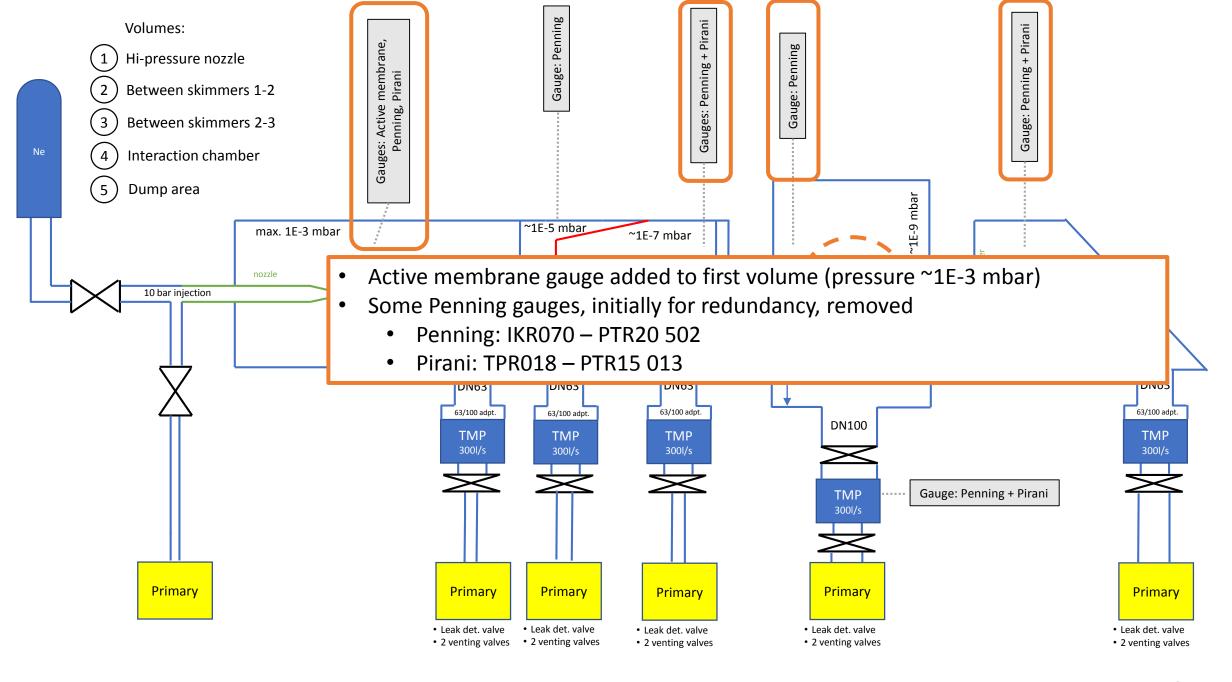
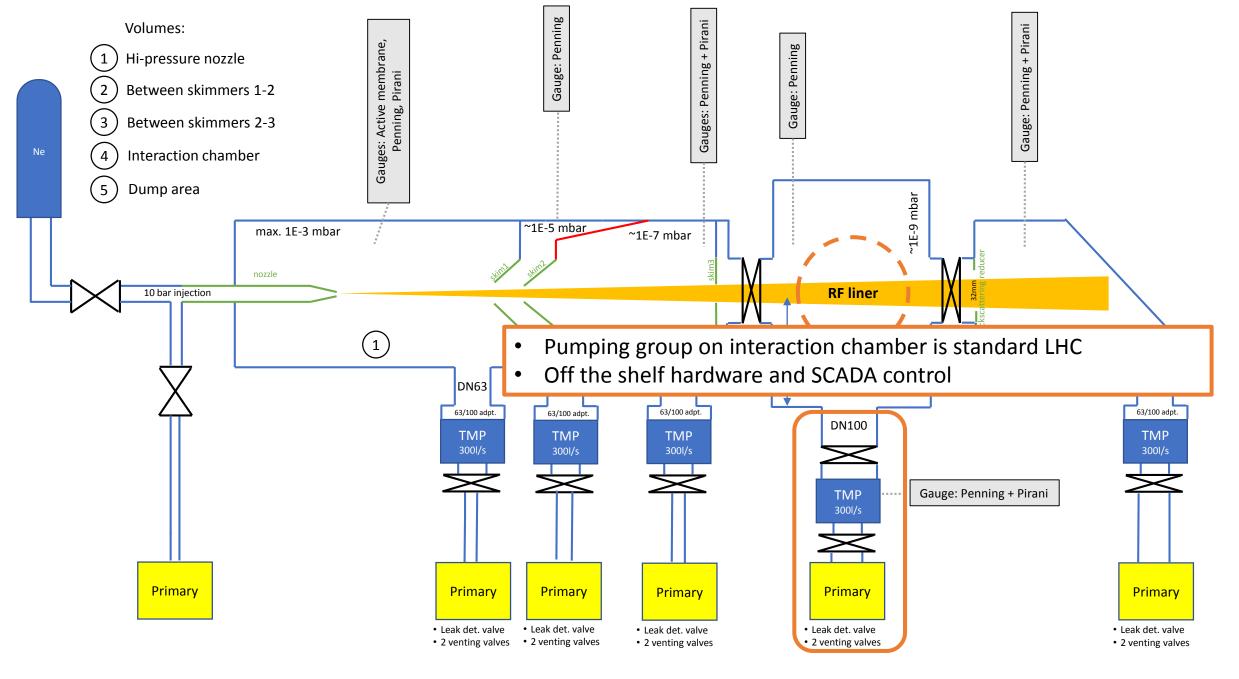
V3 instrument Controls and integration update

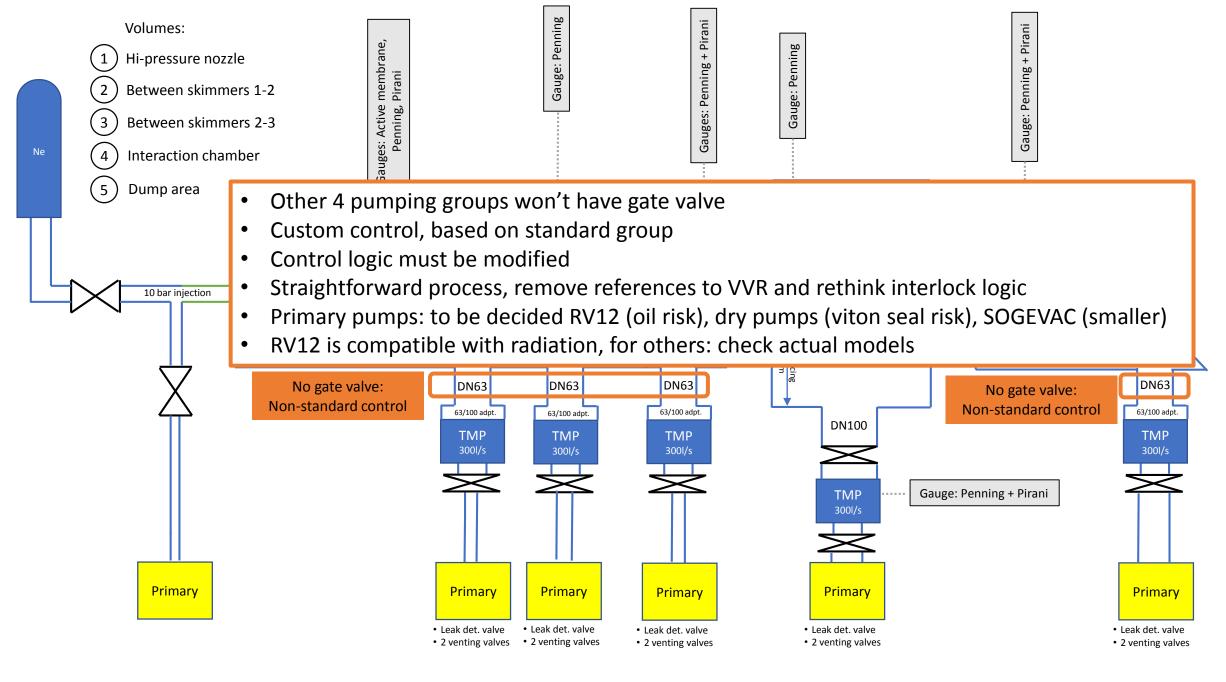
Marton Ady

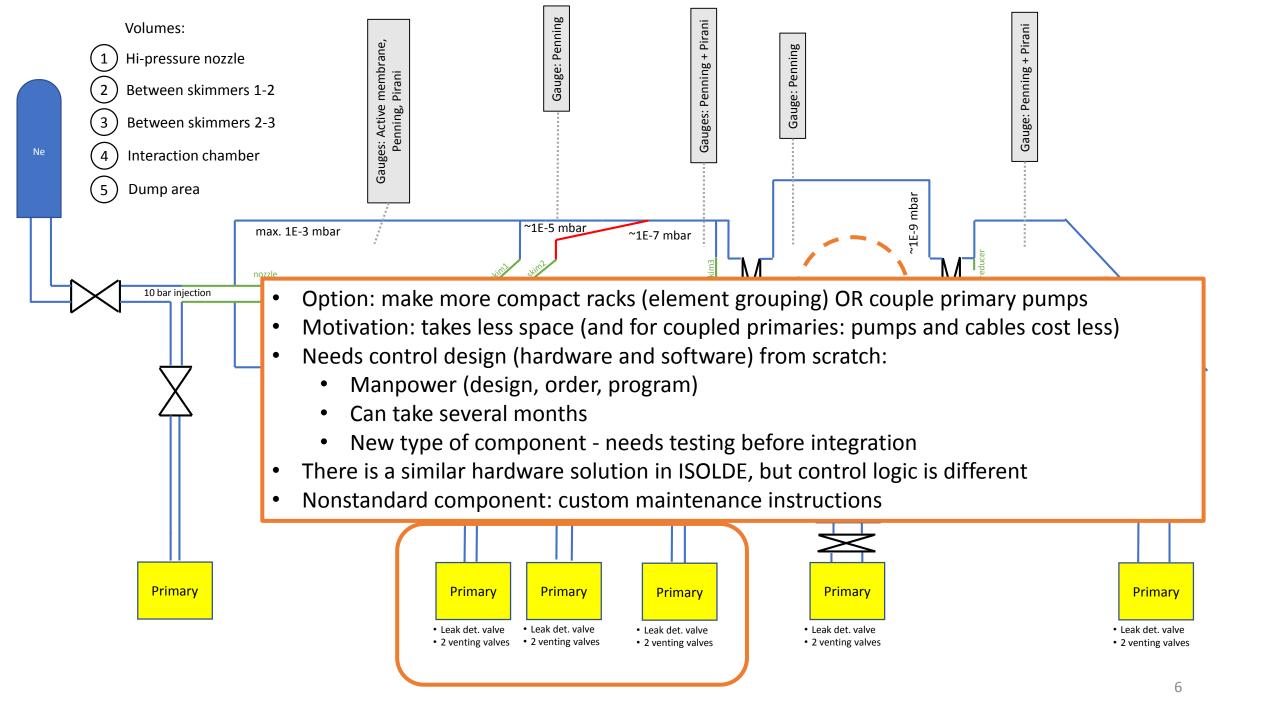
BGC collaboration meeting 10.12.2020

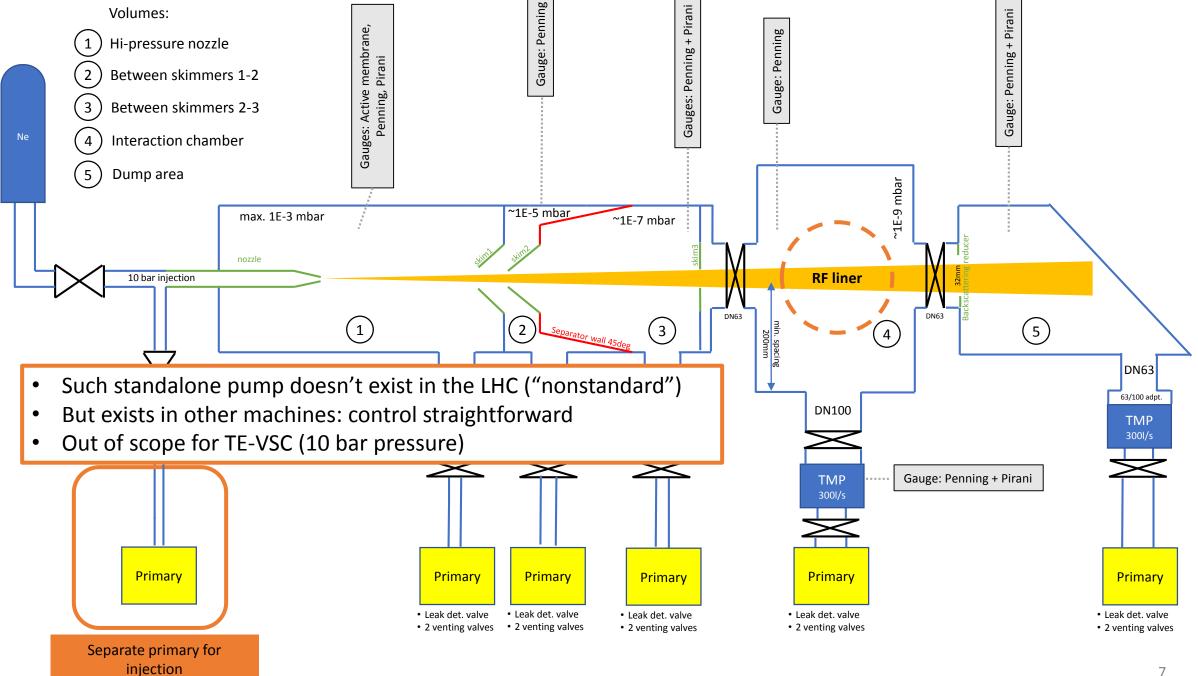
Latest schematics











Status & schedule

- TMP pumps (5xPfeiffer HiPace 300) already ordered, arrived at Cockroft Institute
- C.I. will operate these with own primaries (sending CERN equipment would require backing infrastructure)
- Between March and May 2021, v3 instrument will arrive to CERN for surface testing
- Controls will be developed and tested once the system is here
 - TE-VSC requests hands-on access for testing and optimization
 - This testing will answer open questions (coupling of primaries, type of primaries, etc)
- Surface testing: TE-VSC can provide "spare" pumping groups
- Once setup finalized, crates can be ordered
 - Max. 3 months if using standard components
 - Significantly longer if custom hardware and logic
- If BGC automation is required, +1PLC is needed with custom software

Backup: component list

	BGC - Gas injection			LHC beam vac	DUMP
	Vol1	Vol2	Vol3	Vol4	Vol5
GAUGES	Active Membrane Gauge				
	Penning	Penning	Penning	Penning	Penning
	Pirani		Pirani		Pirani
GATE VALVE	-	-	-	GATE VALVE DN100	GATE VALVE DN63
TMP	Hipace 300 - CF - 1000m				
VVT - venting turbo	VAT - Angle valve DN16KF				
VVD - leak detector	VAT - Angle valve DN25KF				
VVI - valve to primary	VAT - Angle valve DN25KF				
VVP - venting primary	VAT - Angle valve DN25KF				
Primary pump	Edwards - RV12				