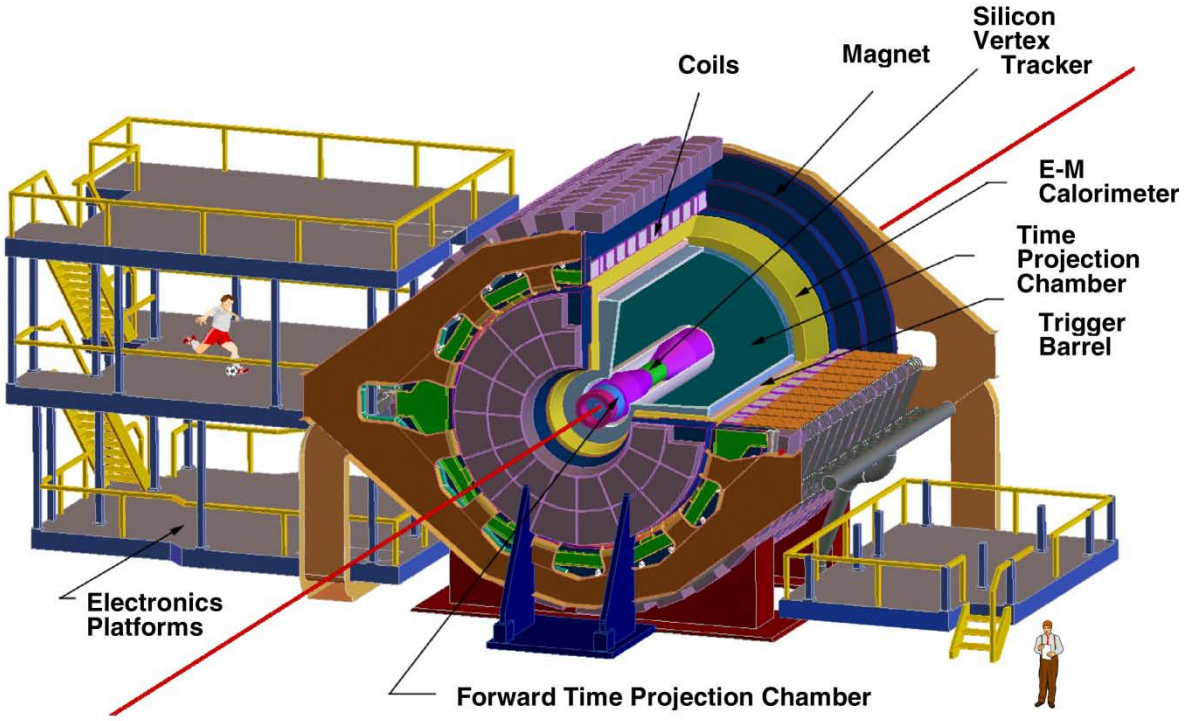
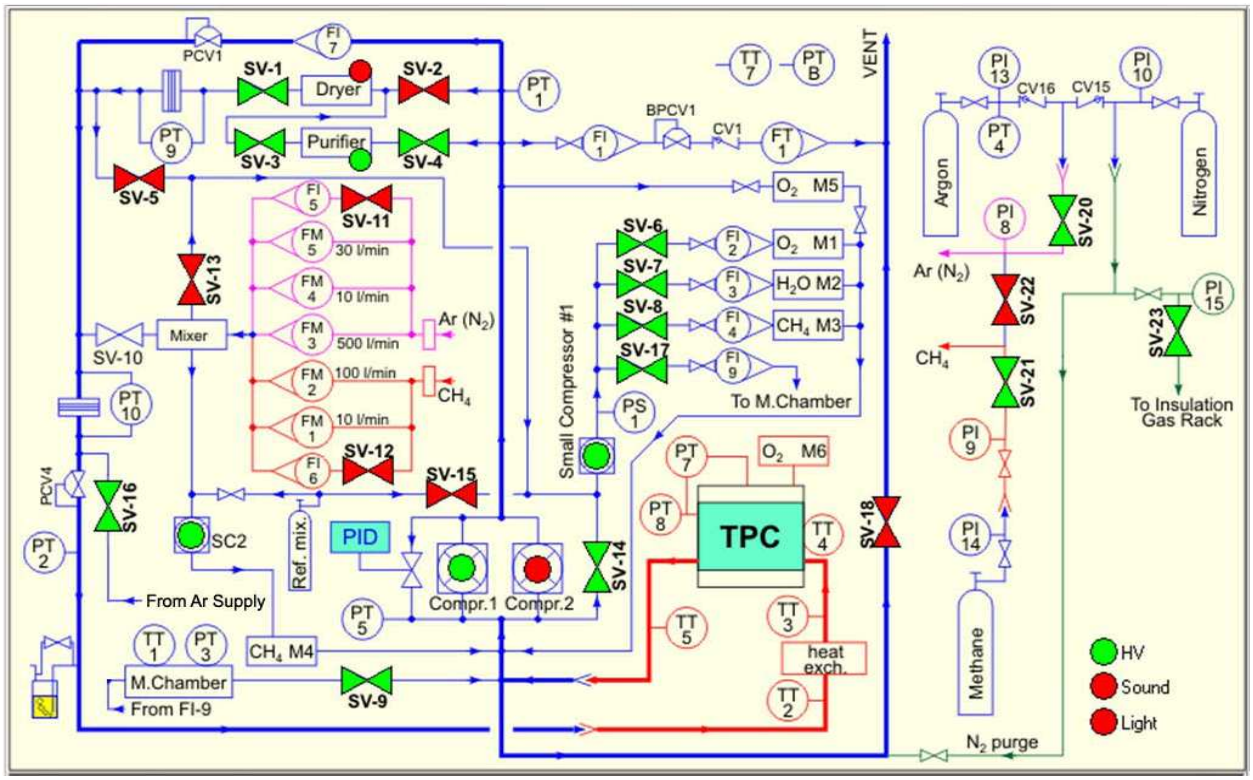
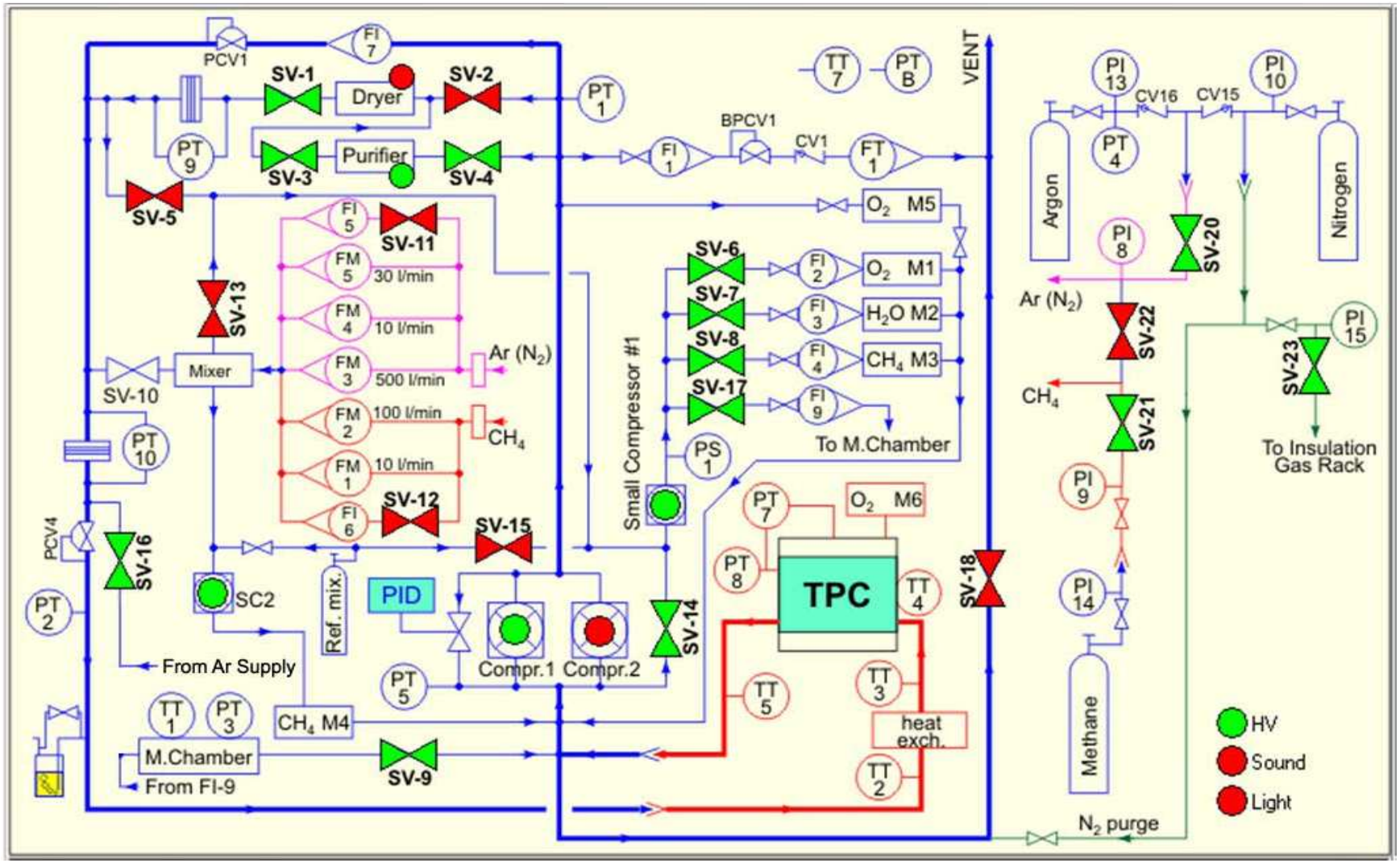
The STAR TPC – Simplified Schematic of the Gas System






PCV1
FI 7
SV-1
Dryer
SV-2
PT 1
PT 9
SV-3
Purifier
SV-4
SV-5
FI 5
SV-11
FM 5 30 l/min
FM 4 10 l/min
FM 3 500 l/min
FM 2 100 l/min
FM 1 10 l/min
FI 6
SV-12
SV-15
SV-13
Mixer
SV-10
Ar (N2)
CH4
PT 10
PCV4
SV-16
PT 2
SC2
Ref. mix.
PID
From Ar Supply
TT 1
PT 3
M.Chamber
From FI-9
CH4 M4
SV-9
PT 5
Compr.1
Compr.2
SV-14
Small Compressor #1
PS 1
SV-6
SV-7
SV-8
SV-17
FI 2
FI 3
FI 4
FI 9
O2 M1
H2O M2
CH4 M3
To M.Chamber
TT 7
PT B
VENT
BPCV1
CV1
FT 1
FI 1
O2 M5
PT 7
PT 8
TPC
TT 4
O2 M6
SV-18
TT 5
TT 3
heat exch.
TT 2
PI 13
CV16
CV15
PI 10
PT 4
Argon
Nitrogen
PI 8
SV-20
Ar (N2)
SV-22
CH4
SV-21
PI 9
PI 14
Methane
SV-23
PI 15
To Insulation Gas Rack
N2 purge
HV
Sound
Light