

# Gas circulation system for C/N-1.0

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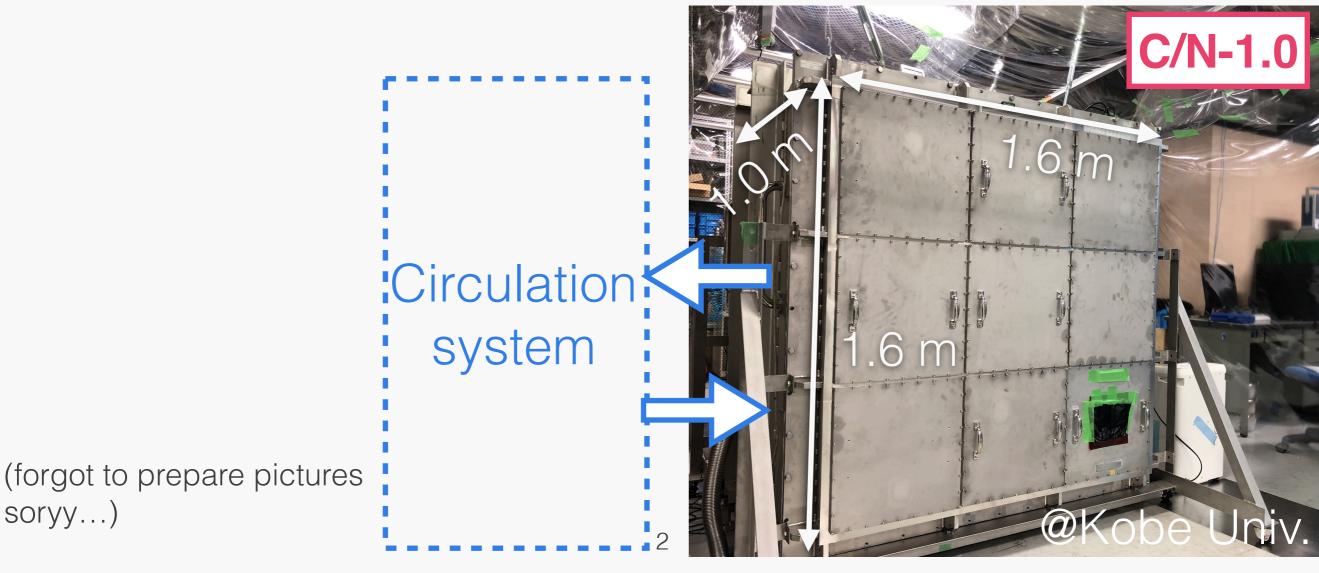
Kobe University

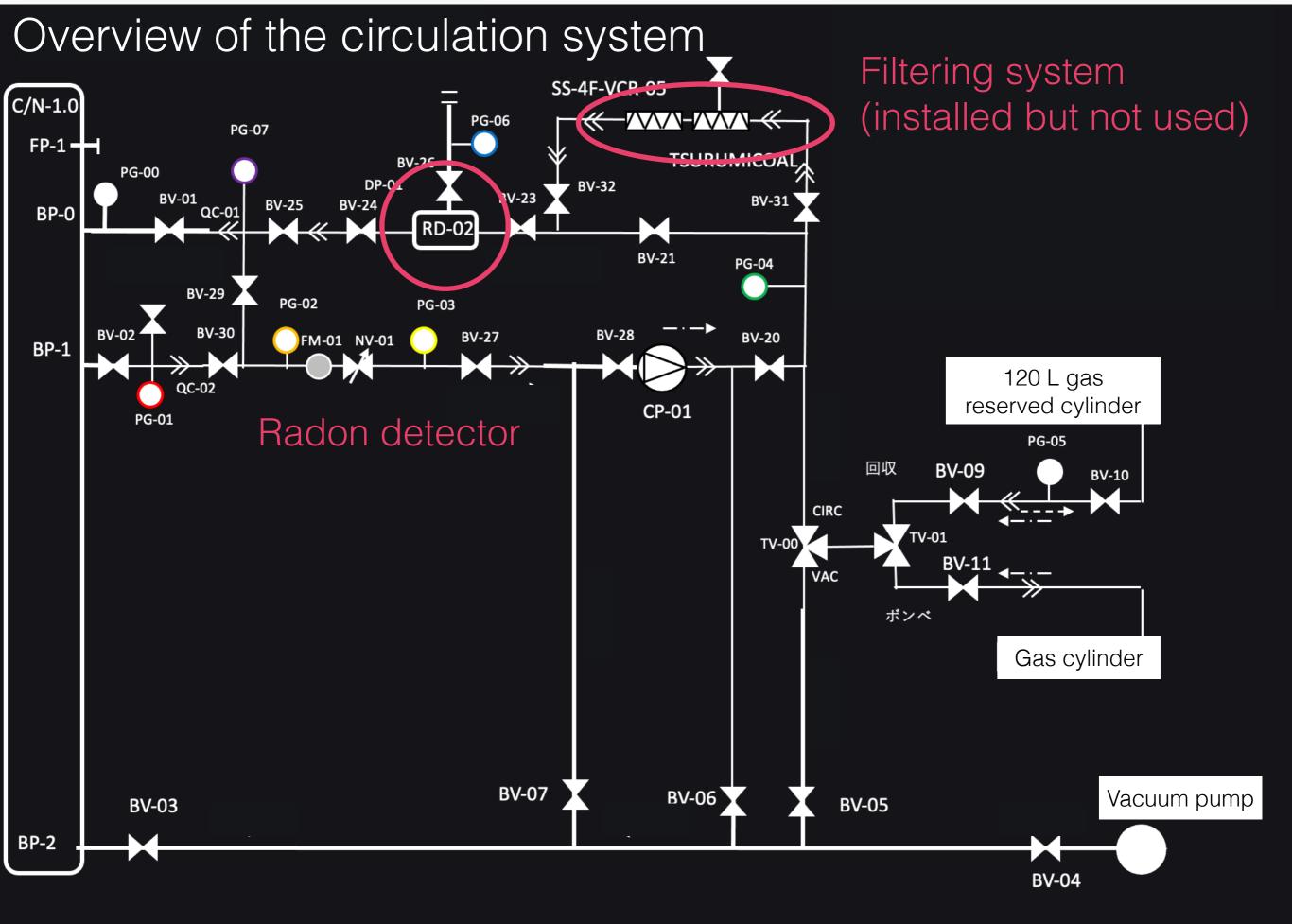
26 / 08 / 2021 CYGNAS gas meeting

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## Review

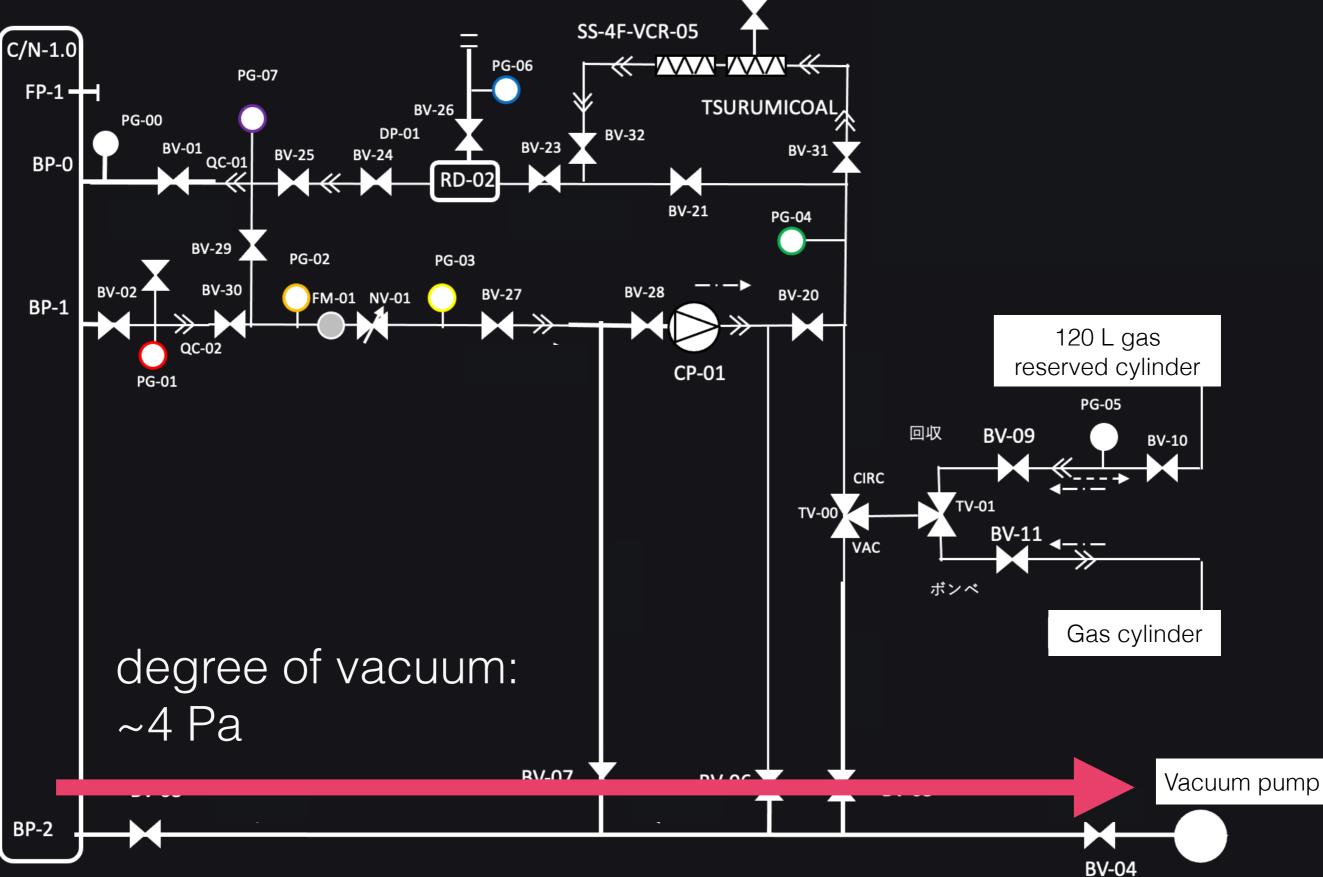
- Our modulated chamber: CYGNUS-KM/NEWAGE-1.0 (C/N-1.0) is under commissioning
  - Observed first signal on the last March (no circulation)
    - Gas leak issue is fixed
    - Circulation system is developed and installed in the single side of the C/N-1.0



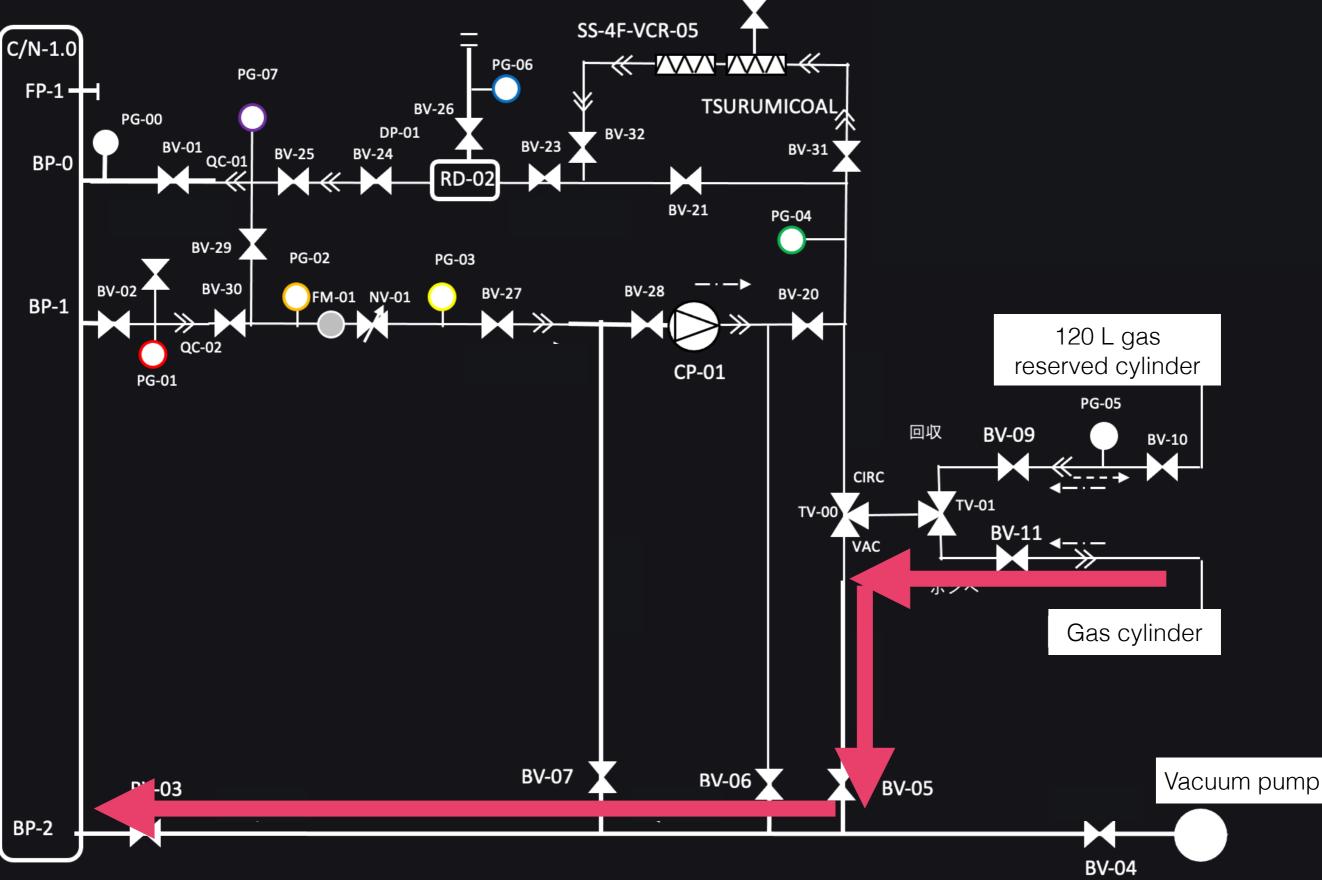


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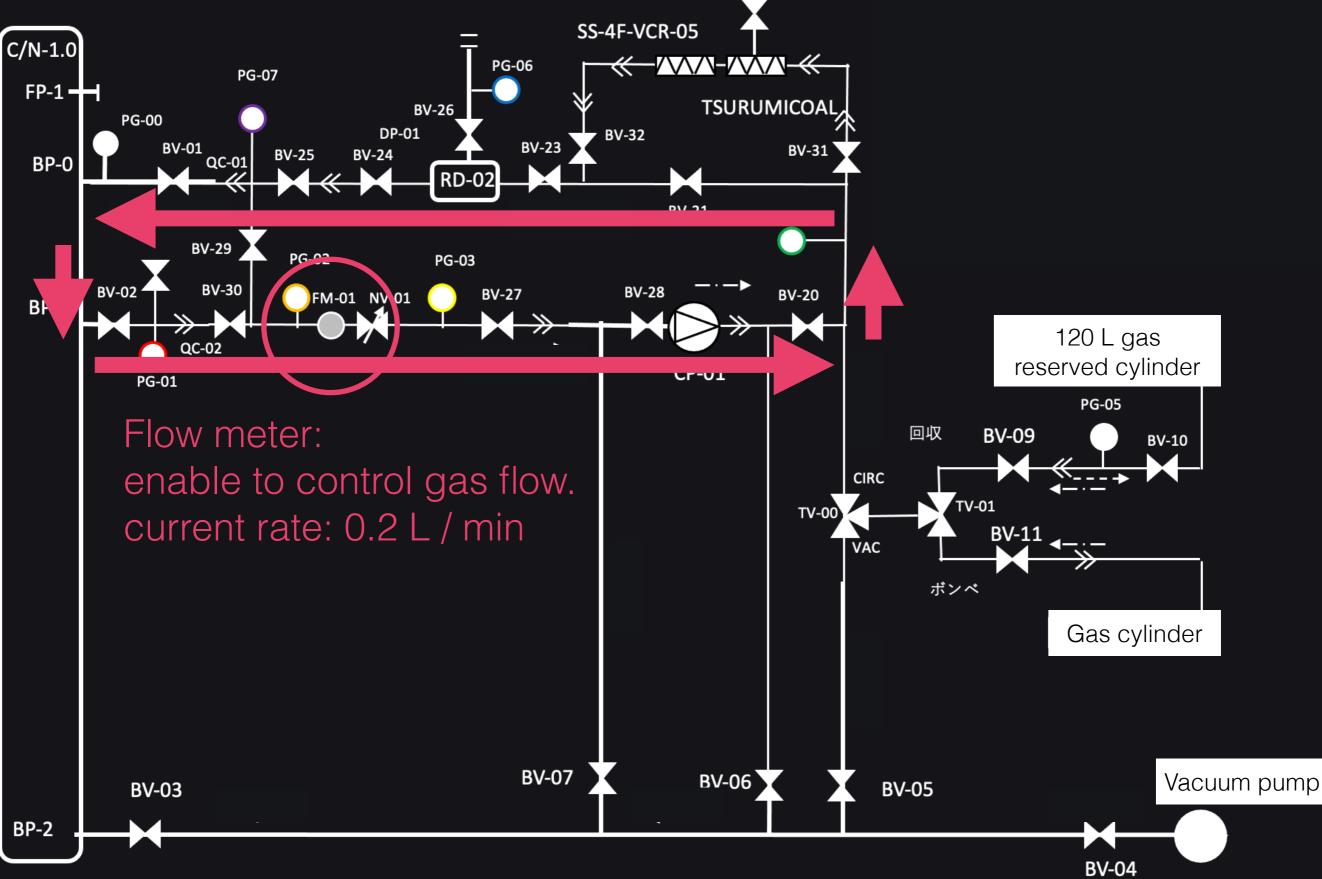
#### **Evacuation line**



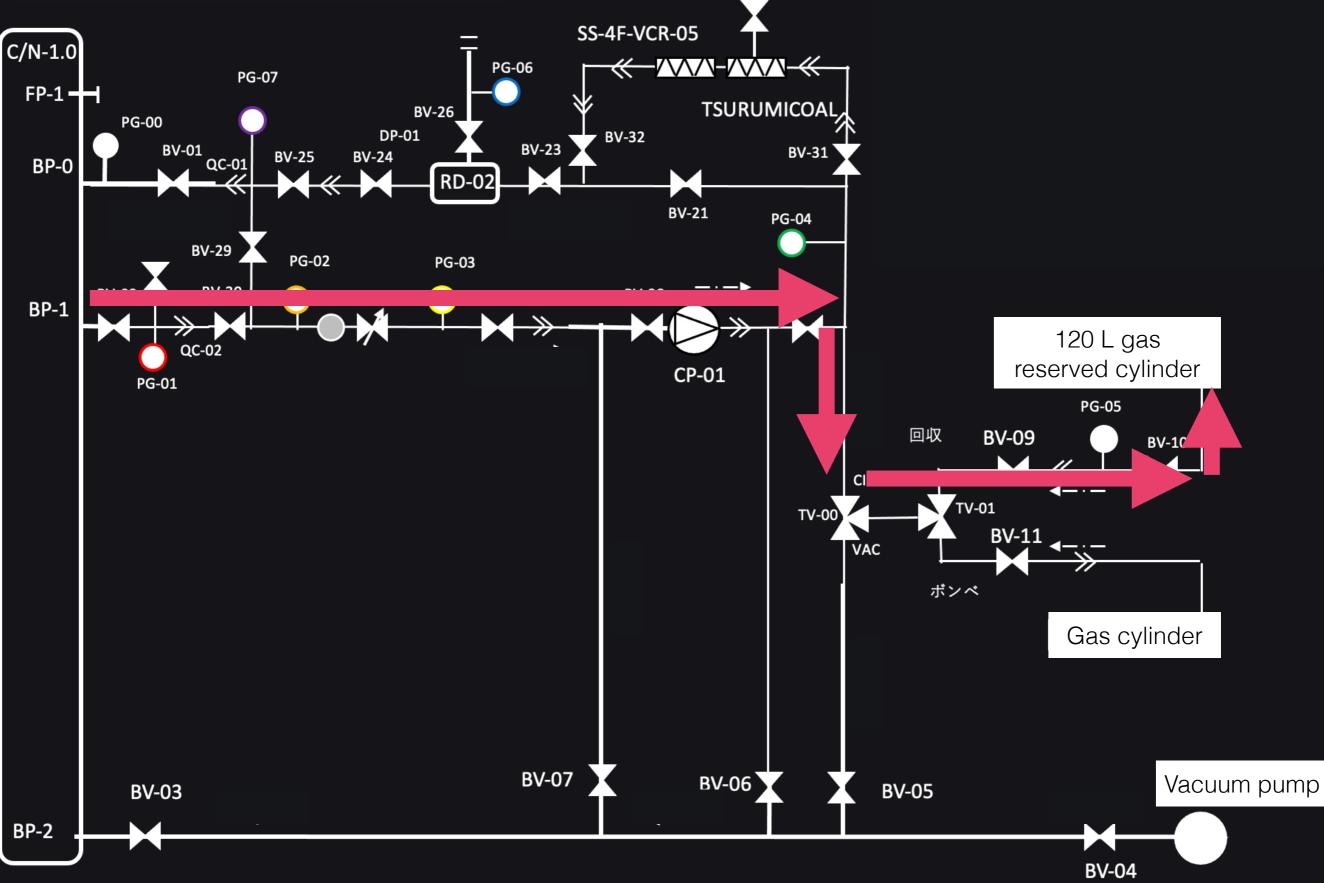
Gas introduction line



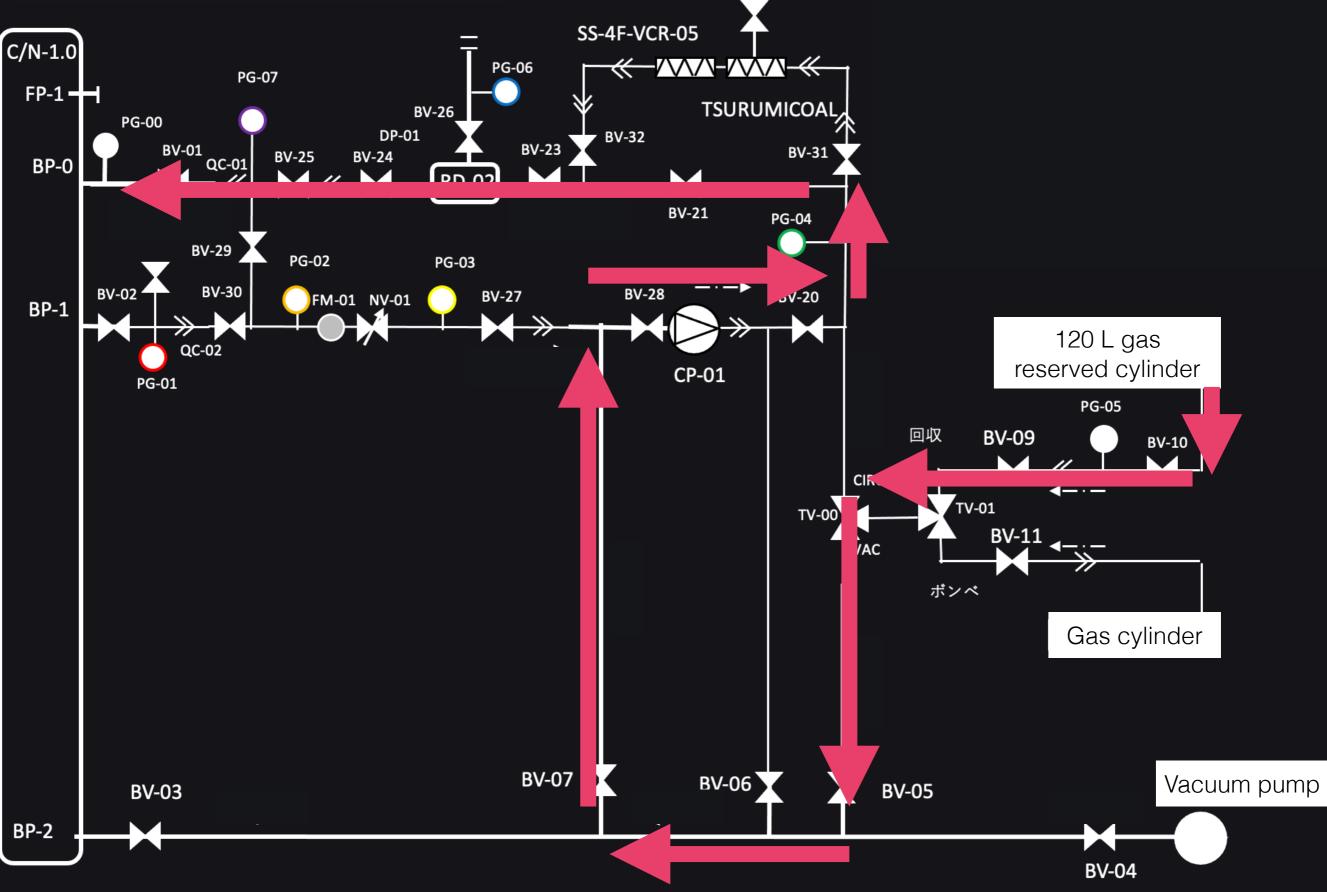
### Circulation line



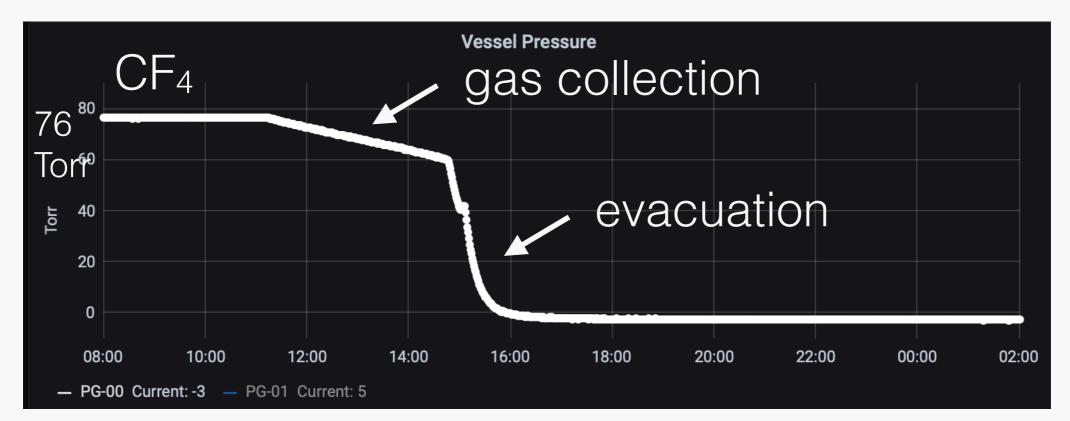
Collection line

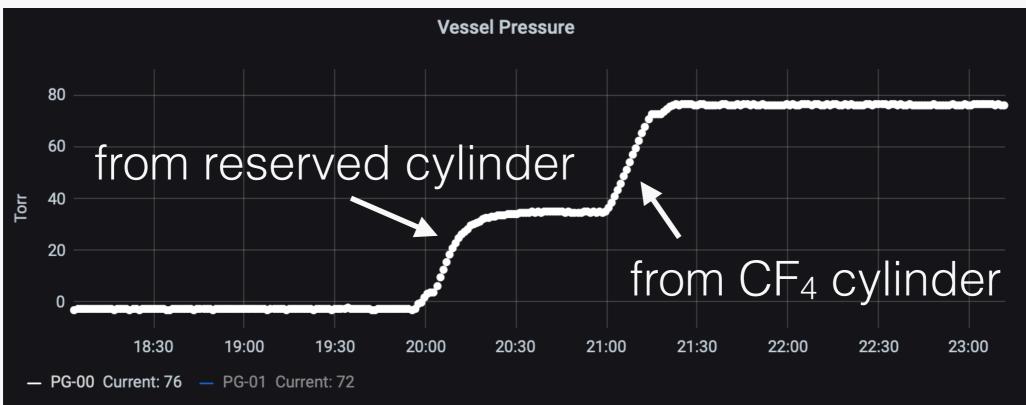


Release line



## Gas evacuation and introduction





## Conclusion and future plan

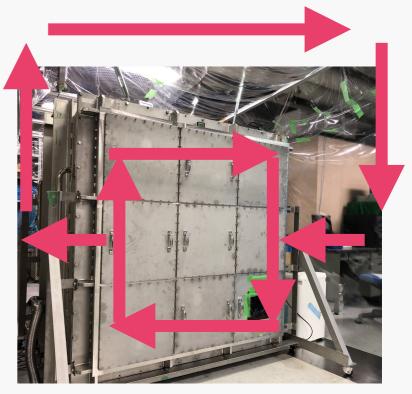
- The gas is successfully evacuated, introduced, collected and released
- The circulation also works
  - ⇒ but it may be a part of the vessel
  - currently one line is moved to the another side and commissioning now
  - the system to circulate whole the vessel in future
- Preparing cooling system for MS (or charcoal) filter to reduce Rn contamination



previous



current (commissioning)



future

