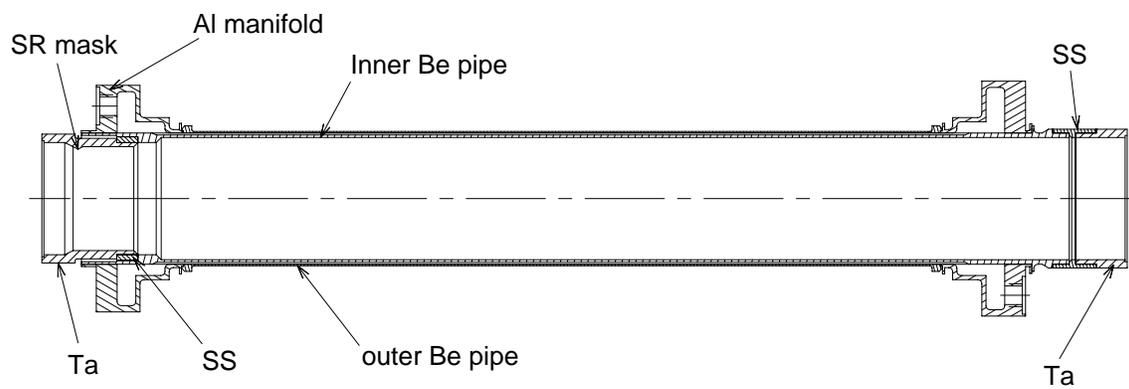
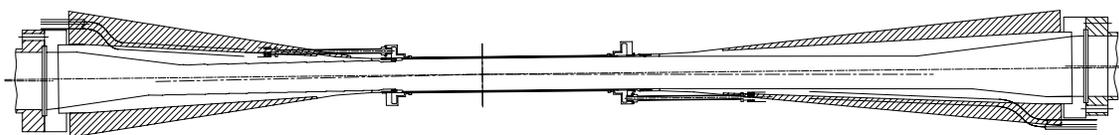


SVD2.0 Beampipe Status and Plan

Two double-wall Beryllium beam pipes are being made.
(Including the Al coolant manifolds and SR mask)



One beampipe from-flange-to-flange is being made.



Beryllium beampipe status

1. Both beampipes now delivered to KEK.
2. Both passed dimensional specs, heat cycling, and leak tests at BW.
 - **Heat cycling:** ramping up to 300°C at 5°C/min kept there for 1 hour and ramping down to 60°C. Repeat it twice.
 - **Leak tests:** vacuum inside and He outside and in the cooling channel. Then, He bag the entire beampipe. Not to exceed 2E-10 He·atm·cc/s each time.
Vacuum in the cooling channel, not to exceed 2E-10 He·atm·cc/s.
 - The possible leak observed on Apr 19 was a false alarm.
3. On May 7 (Mon), the first beampipe has been successfully leak-tested at KEK with the same criteria as above.
4. First beampipe has been gold coated ($11 \pm 1 \mu\text{m}$) at Japan ULVAC (Tsukuba).
5. Both beampipes are leak tested on May 13 (Mon).

Tapered section status

1. Cooling block brazing test was successful.
2. Tantalum pipes, flanges, and masks have been fabricated.
3. Jigs for brazing the flanges have been made.
4. The design for the EBW of tapered section to the Beryllium section have been finished.

PF200 cooling system status

1. Alternative to PF200 ordered.
Tests to follow. (chemical analysis, with Be)
2. Circulation system is more or less designed.
(All-stainless system)

Plan

- 5/13-17 Forward tapered section brazing.
- 5/20 Second Be beampipe gold coating completed.
- 5/20-24 Backward tapered section brazing.
- 5/24-6/7 EBW of the tapered sections to the Be section.
- 6/10-28 Assembly of the whole beampipe
(masks, cooling blacks, PF200 tubes.)
- 7/1 Delivery to KEK.
- 7/1-5 BR127 coating and attachment of thick gold foil.

(Trying to shorten the schedule - probably possible)