

Date: April 15, 2004

Subj: APS drawings [25030101-00032](#) PAR stripline chamber S-8

Spare status: Spare S-8 chambers: Five chambers available in various conditions;
One chamber cleaned but not vacuum certified;
Stored at bldg 382
Request for vacuum certification pending



Fig. 1: Storage location of S-8 chamber in 382 (open cabinets on mezzanine)

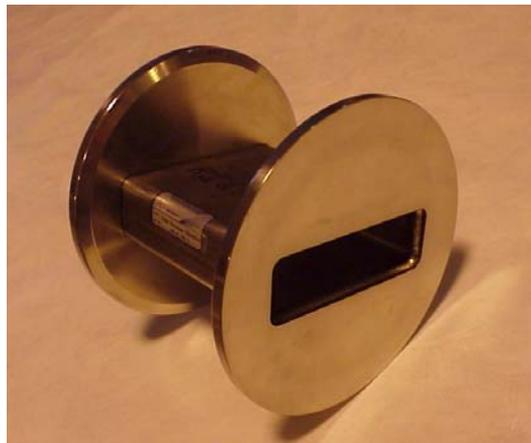


Fig. 2: Spare S-8 chamber

Further details:

- **S-8 Chamber (APS drawing [25030101-00032](#))**

This chamber is installed in PAR in one place. It is a section of beamtube with flanges only. The intended spare for this chamber is a direct replacement.'

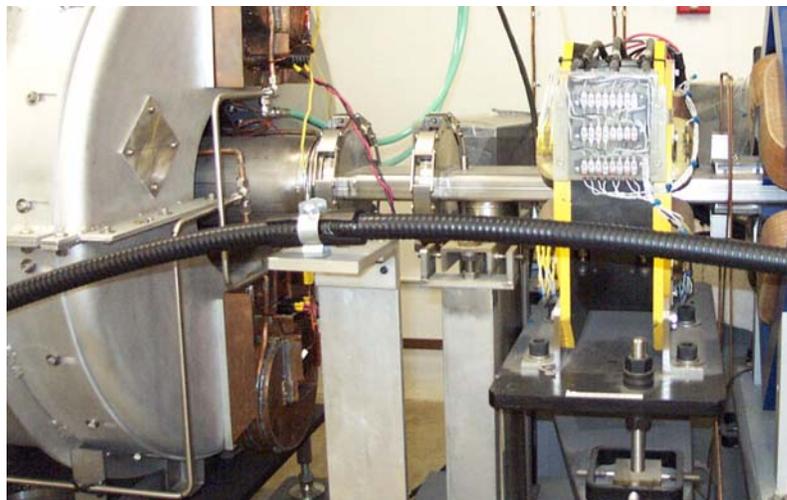


Fig. 3: S-8 vacuum chamber installed in PAR

The S-8 chamber is installed beside the RF fundamental cavity as shown in Fig. 3.

- **History of S-8 vacuum chambers**

In the original construction, four S-8 chambers were installed. Since that time, two of the S-8 chambers, one on either side of the septum, have been replaced with vacuum valves. A third S-8 chamber was replaced with the RF welded bellows (APS drawing [25040101-570201](#)).

The three S-8 chambers removed from PAR were stored in the “hot cage” for several years. In 2004, these were surveyed by ANL-HP group and allowed to be stored in bldg 382.