

7 MSP \oplus
(2 lines) 5.5×10^{-9} atm. cc/sec
No Response

8 Ta \oplus
(2 lines) 5.5×10^{-9} atm cc/sec $\rightarrow 5.8 \times 10^{-9}$
slow up

9 Ta -
(2 lines) 5.6×10^{-9} atm cc/sec
No Response

10 Tube -
(2 lines) 5.6×10^{-9} atm. cc/sec
No Response

11 Tube \oplus
(2 lines) $\left\{ \begin{array}{l} \textcircled{1} 5.6 \times 10^{-9} \rightarrow 2.8 \times 10^{-6} \text{ atm. cc/sec} \\ \text{quick response after 4 seconds} \\ \textcircled{2} 6.1 \times 10^{-9} \rightarrow \text{Max. pressure} \end{array} \right.$
pressure from 6×10^{-3} torr to

line 2 on Tube \oplus had a directly 1.5×10^{-2} torr
quick response to 60 ps; helium
the leak rate went to maximum in 5 seconds
So the line 2 on Tube \oplus should be
the leaking line.

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TM2 LEAK CHECK AT CS (NO SOURCE TRAY)

BLR 5.0×10^{-9} atm cc/sec BP 6.0×10^{-3} torr.

Leak checked all vacuum connections from leak detector ~~and~~ to CS. All ~~the~~ vacuum lines and connections are leak tight.

IG1 = 5.7×10^{-7} torr IG1S = 5.6×10^{-6} torr IG2 = 6.3×10^{-6} torr

TM2 air to vacuum leak check:

sprayed helium to all flanges, gauges, turbo-pumps, blue insulators, blank-offs ~~and~~ bellow. No response

on leak detector at 5.0×10^{-9} atm cc/sec level.

TM2 water lines helium pressurization

60 PSI helium 2 minutes on each line.

1 EE (+) 5.0×10^{-9} atm cc/sec
2 lines No Response

2 HS (+) 5.1×10^{-9} atm cc/sec
2 lines No Response

3 Coil 1 (+) 5.1×10^{-9} atm cc/sec
No Response

4 Coil 1 (-) $5.1 \times 10^{-9} \rightarrow 5.5 \times 10^{-9}$ atm cc/sec
slow up

5 Coil 2 (+) 5.5×10^{-9} atm cc/sec
No Response

6 Coil 2 (-) 5.5×10^{-9} atm cc/sec $\rightarrow 5.7 \times 10^{-9}$ atm cc/sec
slow up