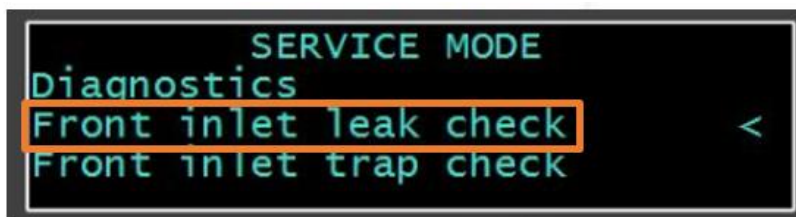


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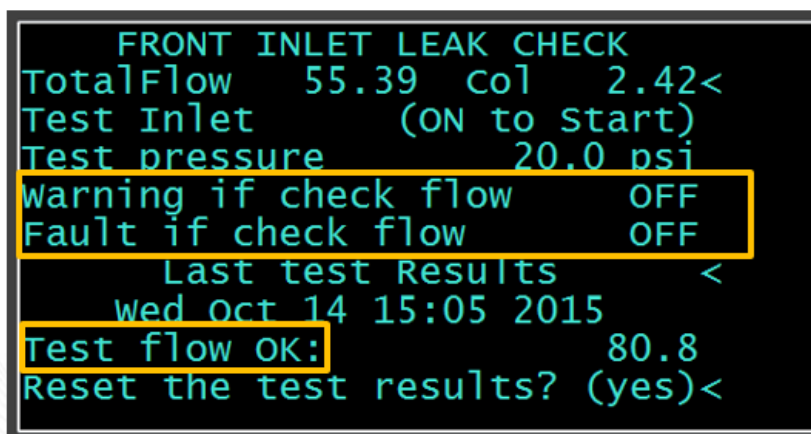
Using the 7890 Service Mode Inlet Leak Check

- For the Split/Splitless (SS), Multimode (MMI) and Programmable Temperature Vaporization (PTV) Inlets
- Used to evaluate the leak rate, and help identify the source of leaks in these Inlet Systems
- Useful for leaks > 2-3 ml/minute

Service Mode



Entire Leak Check Menu:



The Leak Check will report OK until a Warning or Fault threshold is set.

To Run the Test:

- 1 - Confirm the accuracy of the Capillary Column Configuration
- 2 - Select a Test Pressure – Typical Examples:
 - For 30M X 250um on GCMS – 5-20 PSIG
 - For 30m X 530uM column on GC Detector – 5-15 PSIG
 - For 30M X 320 uM column on GC Detector – 5-25 PSIG
 - For 30M X 200uM column on GC Detector – 5-85 PSIG
- 3 - Press “ON” to start the Leak Check

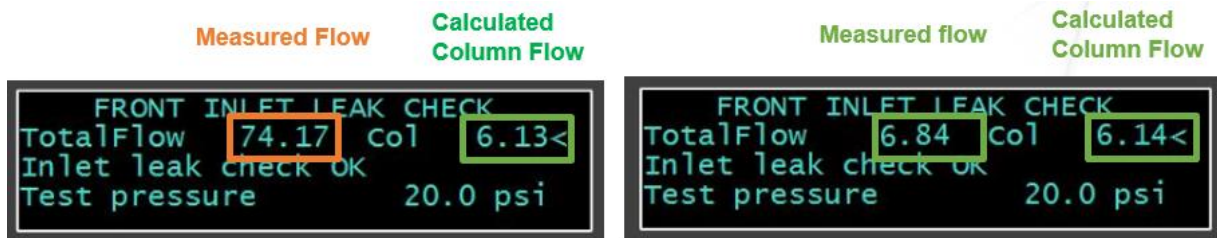
On / Yes



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Interpreting the Results:

Compare the measured “Total Flow” to the calculated “Column Flow”

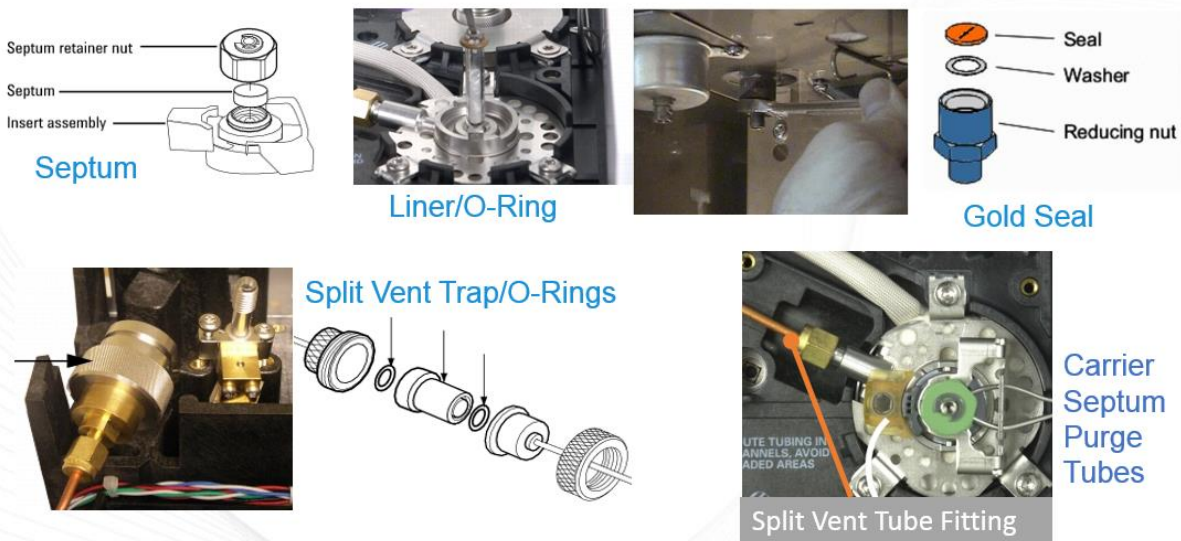


The Leak rate is approximately
74-6 ≈ 68 mL/minute

The Leak rate is negligible!

Potential Leak Points:

Check/Adjust/Tighten these areas while monitoring the Total Flow in the Display:



Applications for the Test

- Before and After Inlet Maintenance
- As a Pre-Run Check before running a sequence
- As a daily check for leaks
- As a Check for Plugged Column - “Total Flow” result will be close to 0.0 ml/minute

Setting Warnings and Faults

Example: Will generate a “Service Due” Warning if Test results are > 5 ml/minute

And a “Fault” with “Not Ready” if > 10.00 ml/minute

