ICP #1 Gas Change: CF_4 – SF_6 – CF_4 SYSTEM MUST BE LEFT CONFIGURED FOR CF_4!!

Switching CF_4 to SF_6

1. On the Gas Switch Box, flip the **CF4/SF6** switch to the center **VALVES CLOSED** position.
2. Using the soft key pad press the **TEST** key.
3. Using the keyboard; press **F6 [TEST]**, **F3 [SECURITY]**, and then **F5 [DEGAS]**.
4. Set **DEGASSING TM SET** for **5:00**.
5. Set **CF_4** gas to **YES** (2), and all other gases to **NO** (1).
6. Press **F4 [REGISTER]**, and then press the green **START** soft key button.
7. The **DEGASSING TM GET** field will count up to 5:00, this evacuates the line and MFC of CF_4.
8. Once the degas is finished, press **F5 [RETURN]** to get to the main menu.
9. Press **F8 [MACH PARAM]** and then **F2 [FULL SCALE]**. Verify that **E-CH** is displayed in the upper left corner of the screen. If it is not, press **F1** until it is.
10. Change **CF_4** to **SF_6** and then scroll to the right and change the gas correction factor (**C.F.** column) to **0.26**.
11. Press **F4 [REGISTER]** and then press **F5 [RETURN]** to get to the main menu.
12. On the Gas Switch Box flip the **CF4/SF6** switch to **SF6**.
13. Press **F6 [TEST]**, **F2 [TEST]**, **F1 [ETCH TEST]**, and then **F2 [SELECTION]**.
14. Scroll to recipe **# 151 CF4lnprg**.
15. Press **F2 [SELECT]** and **F4 [REGISTER]**.
16. Press the green **START** soft key button, then **F5 [RETURN]**, and **F3 [MONITOR]**.
17. Once the recipe is finished, press **F5 [RETURN]** to get to the main menu and then press the **AUTO** soft key. You can now run your processes with SF_6.

Switching SF_6 back to CF_4

1. On the Gas Switch Box, flip the **CF4/SF6** switch to the center **VALVES CLOSED** position.
2. Using the soft key pad press the **TEST** key.
3. Using the keyboard; press **F6 [TEST]**, **F3 [SECURITY]**, and then **F5 [DEGAS]**.
4. Set **DEGASSING TM SET** for **5:00**.
5. Set **SF_6** gas to **YES** (2), and all other gases to **NO** (1).
6. Press **F4 [REGISTER]**, and then press the green **START** soft key button.
7. The **DEGASSING TM GET** field will count up to 5:00, this evacuates the line and MFC of SF_6.
8. Once the degas is finished, press **F5 [RETURN]** to get to the main menu.
9. Press **F8 [MACH PARAM]** and then **F2 [FULL SCALE]**. Verify that **E-CH** is displayed in the upper left corner of the screen. If it is not, press **F1** until it is.
10. Change **SF_6** to **CF_4** and then scroll to the right and change the gas correction factor (**C.F.** column) to **0.42**.
11. Press **F4 [REGISTER]** and then press **F5 [RETURN]** to get to the main menu.
12. On the Gas Switch Box flip the **CF4/SF6** switch to **CF4**.
13. Press **F6 [TEST]**, **F2 [TEST]**, **F1 [ETCH TEST]**, and then **F2 [SELECTION]**.
14. Scroll to recipe **# 151 CF4lnprg**.
15. Press **F2 [SELECT]** and **F4 [REGISTER]**.
16. Press the green **START** soft key button, then **F5 [RETURN]**, and **F3 [MONITOR]**.
17. Once the recipe is finished, press **F5 [RETURN]** to get to the main menu and then press the **AUTO** soft key. You can now run your processes with CF_4.