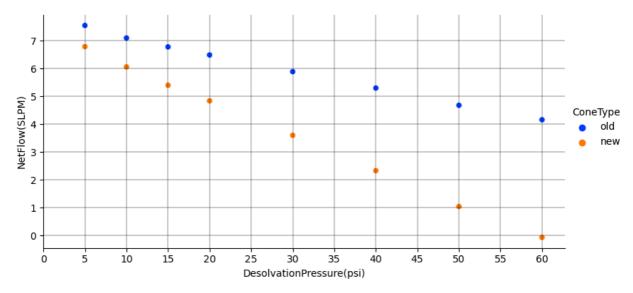
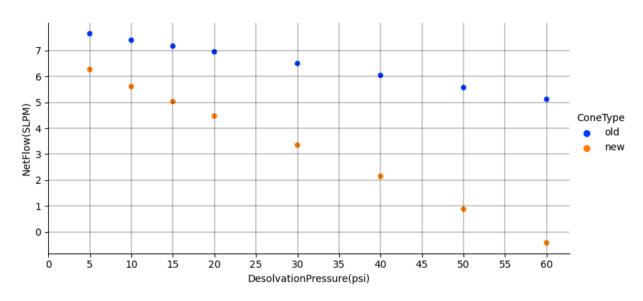
```
import seaborn as sns
In [1]:
         import numpy as np
         import pandas as pd
         import matplotlib.pyplot as plt
         from scipy.optimize import curve_fit
         import os
In [2]:
                                                  Net Flow v.s. Desolvation Pressure Plot, PP1
         fn = 'C:\\Users\
                                                                                            ABCfold€
         df = pd.read csv(fn)
         pp1 = df[df['System'] == 'PP1']
         print(df.columns)
         fig = sns.relplot(pp1, x= 'DesolvationPressure(psi)', y= 'NetFlow(SLPM)', palette = 't
         plt.suptitle('Net Flow vs. Pressure, PP1, Feb. 12, 2025',y=1.1, x=.46)
         for ax in fig.axes.flatten():
             ax.grid(color = 'black', linewidth =.3)
             ax.set xticks(np.arange(0, 61, 5))
             ax.set yticks(np.arange(0, 8, 1))
         Index(['DesolvationPressure(psi)', 'NetFlow(SLPM)', 'ForelinePressure(mbar)',
                 'ConeType', 'System'],
               dtype='object')
                               Net Flow vs. Pressure, PP1, Feb. 12, 2025
           7
           6
           5
         NetFlow(SLPM)
                                                                                           ConeType
                                                                                               old
                                                                                               new
           1
           0
                                     20
                                                                   45
                                                       35
                                                             40
                                                 30
                                           DesolvationPressure(psi)
In [3]:
                                                  Net Flow v.s. Desolvation Pressure Plot, PP2
         fn = 'C:\\Users\)
                                                                                           \BCfold∈
         df = pd.read csv(fn)
         pp1 = df[df['System'] == 'PP2']
         print(df.columns)
```

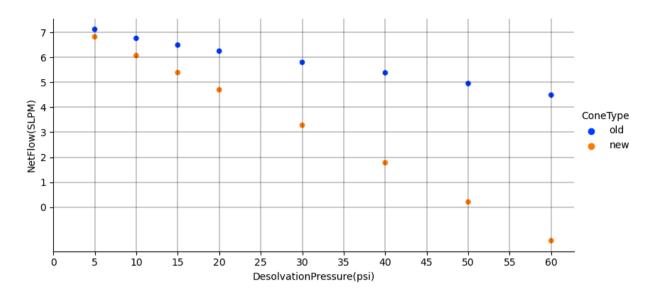
fig = sns.relplot(pp1, x= 'DesolvationPressure(psi)', y= 'NetFlow(SLPM)', palette = 't

plt.suptitle('Net Flow vs. Pressure, PP2, Feb. 14, 2025',y=1.1, x=.46)

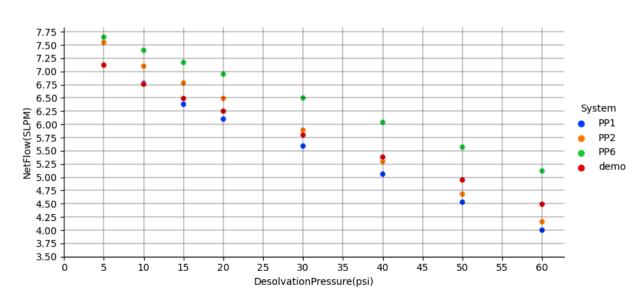
Net Flow vs. Pressure, PP2, Feb. 14, 2025



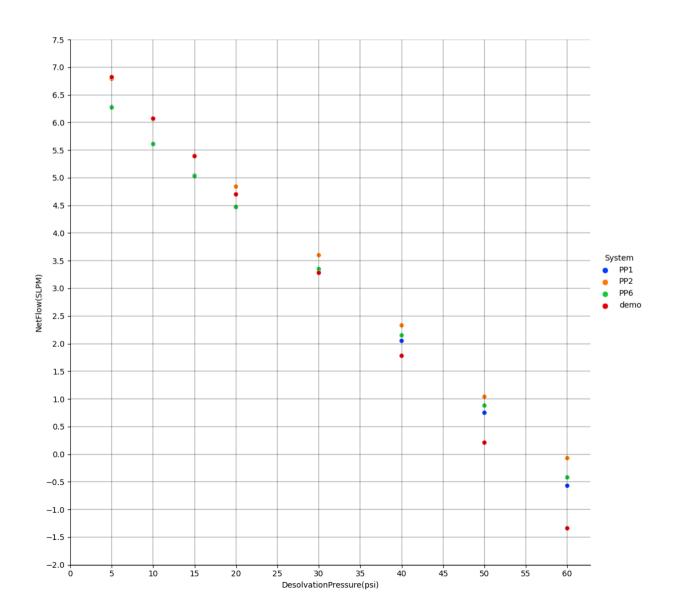




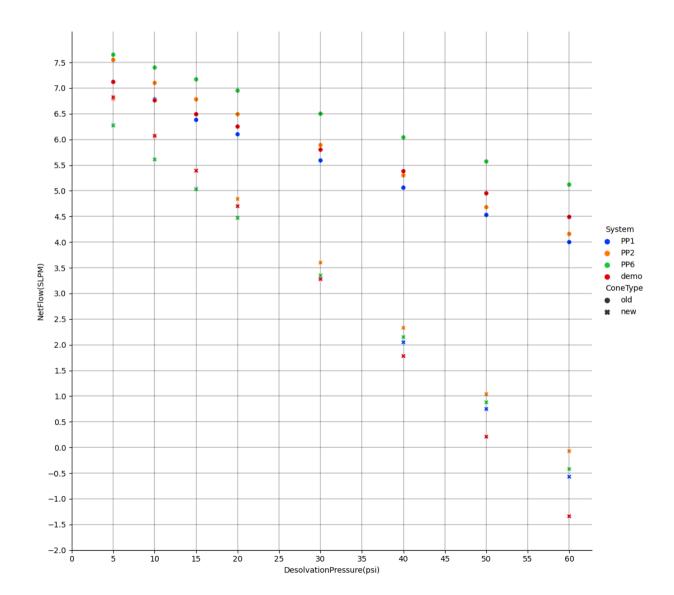




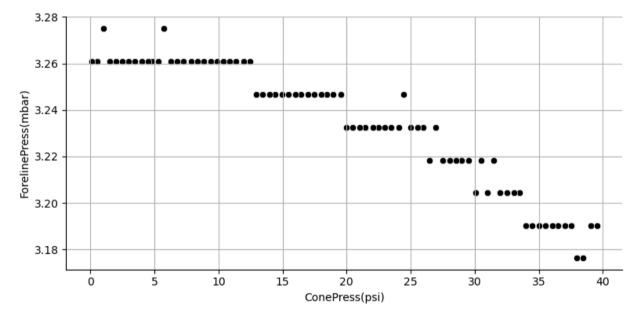
Net Flow vs. Pressure, New Cones

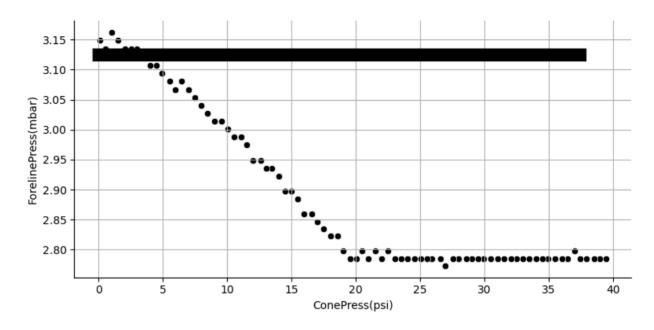


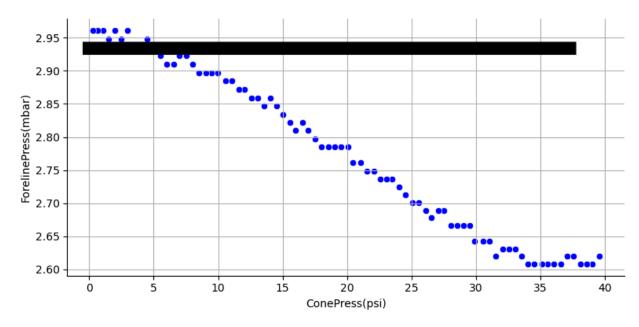
Net Flow vs. Pressure, Both Cones

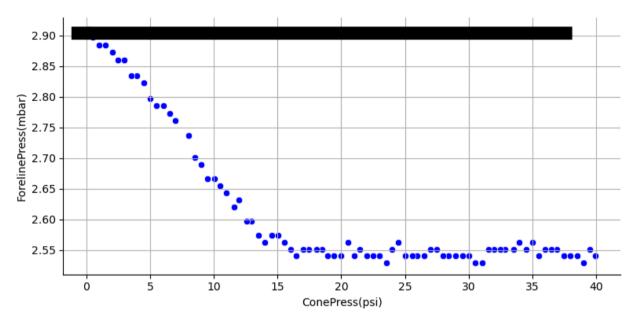


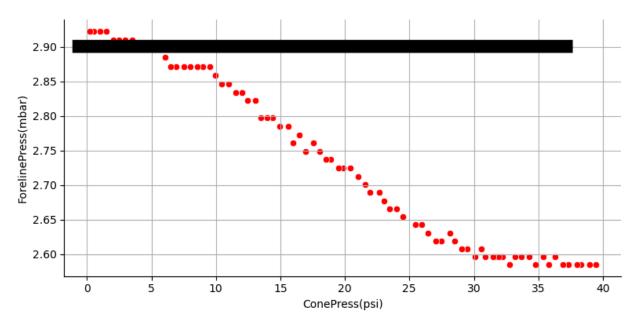
Test Cone Flow Script, Demo, Old Cone, Feb. 12, 2025

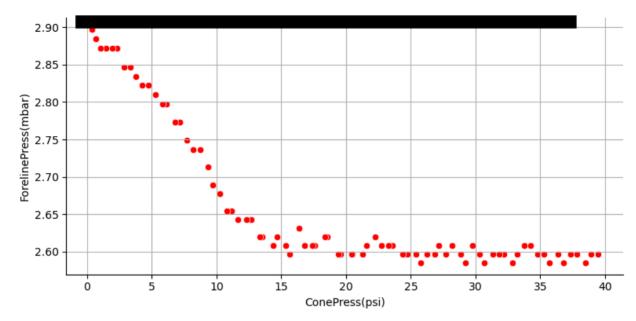


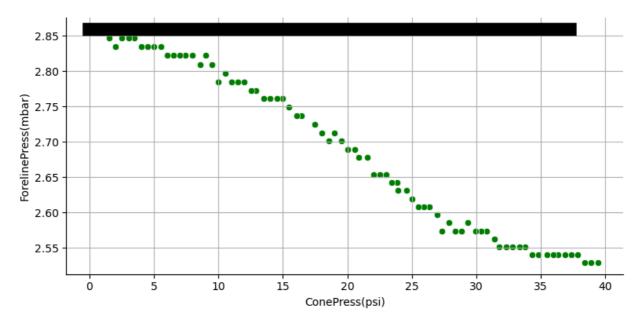


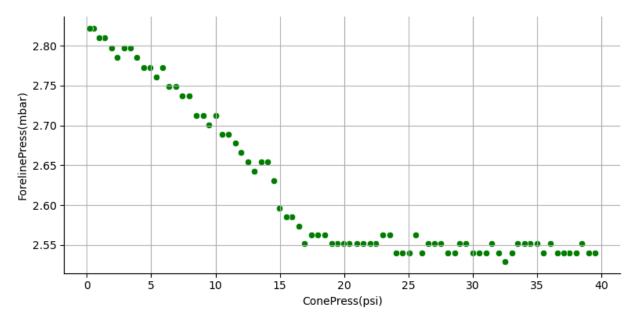


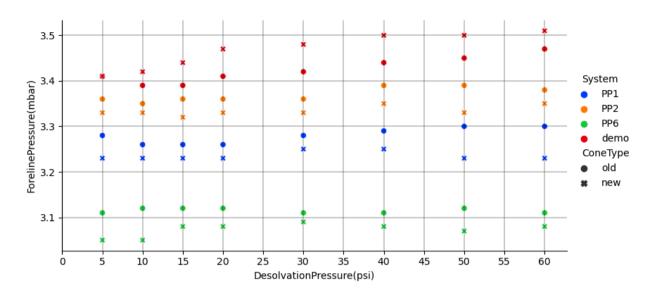


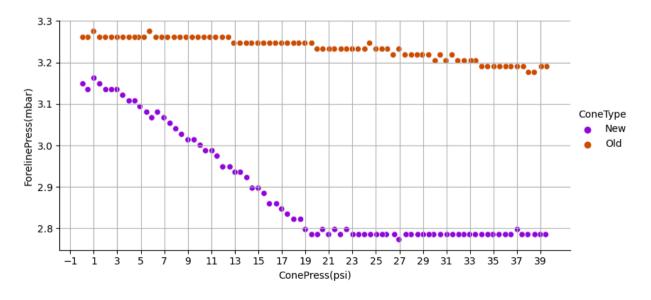










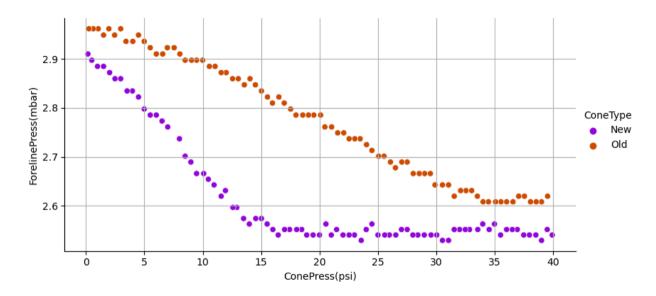


```
fn = 'C:\\Users\

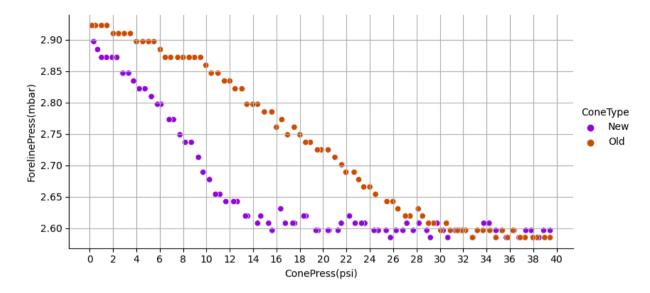
df = pd.read_csv(fn)
print(df.columns)

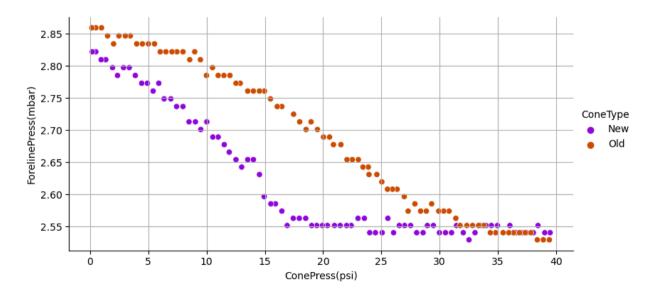
fig = sns.relplot(df,x = 'ConePress(psi)',y='ForelinePress(mbar)', hue = 'ConeType', k
plt.suptitle('Test Cone Flow Script, PP1, Both Cones',y=1.1)

for ax in fig.axes.flatten():
    ax.grid()
```



Index(['ConePress(psi)', 'ForelinePress(mbar)', 'ConeType'], dtype='object')





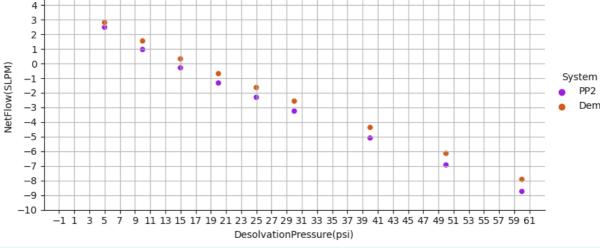
```
In [38]: fn = 'C:\\Users\\

df = pd.read_csv(fn)
    dfdemo = df[df['System'] == 'Demo']
```

```
print(df.columns)
fig = sns.relplot(df,x = 'DesolvationPressure(psi)',y='NetFlow(SLPM)', hue = 'System',
plt.suptitle('NetFlow v.s. DesolvationPressure, ConeTemp = 350c, ExOFF',y=1.1)
for ax in fig.axes.flatten():
    ax.set xticks(np.arange(-1, 62, 2))
    ax.set yticks(np.arange(-10, 6, 1))
    ax.grid()
Index(['DesolvationPressure(psi)', 'NetFlow(SLPM)', 'Foreline(mbar)',
       'System'],
```

NetFlow v.s. DesolvationPressure, ConeTemp = 350c, ExOFF 3 -1-2

dtype='object')



Demo