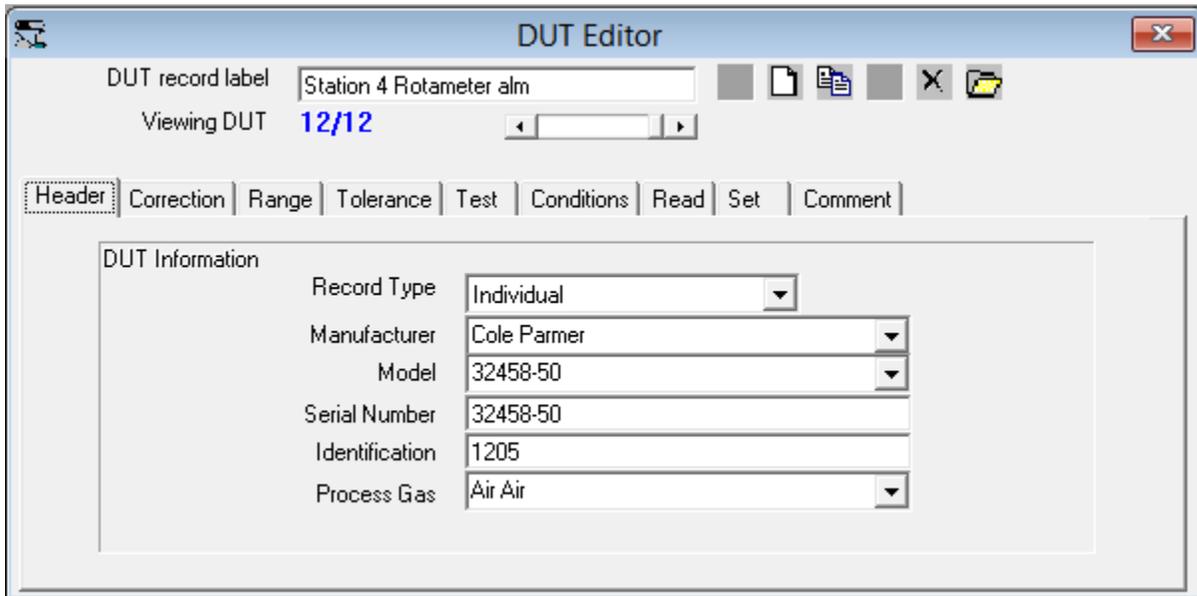


# Flow Training Class - Station 4 COMPASS for molbox Setup

DUT setup for 5 liter per minute (volumetric flow, not mass flow) rotameter that is manufactured for use in air (but run in nitrogen) with outlet at 14.7 psi and 70F (21.11C)



DUT Editor

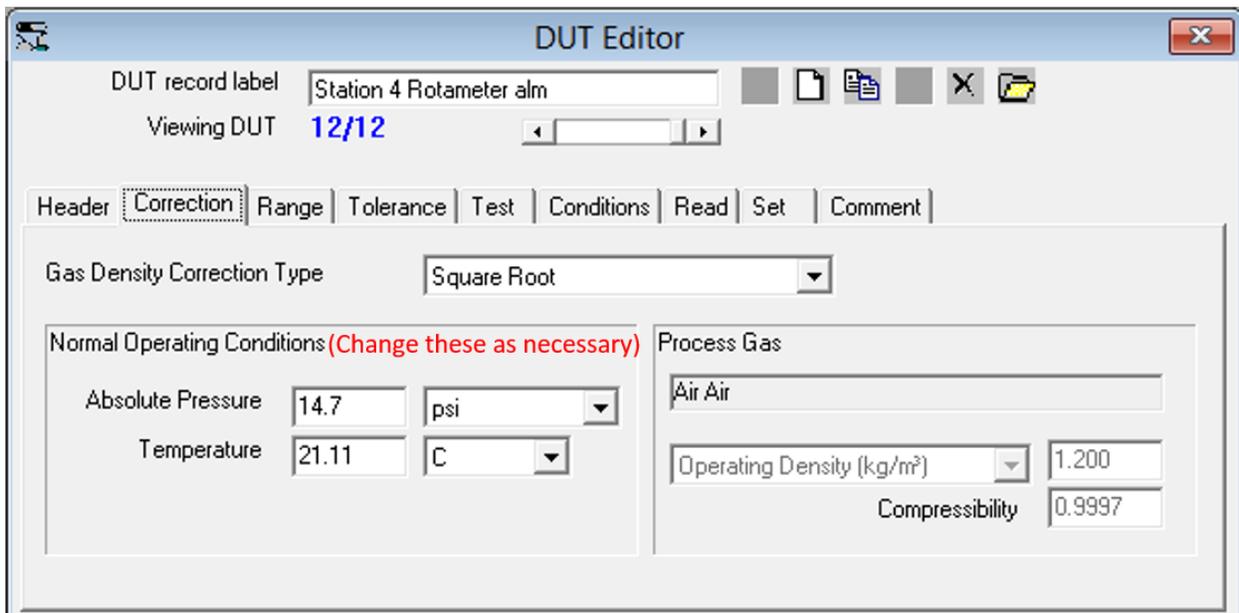
DUT record label: Station 4 Rotameter alm

Viewing DUT: 12/12

Header: Correction | Range | Tolerance | Test | Conditions | Read | Set | Comment

DUT Information

Record Type	Individual
Manufacturer	Cole Parmer
Model	32458-50
Serial Number	32458-50
Identification	1205
Process Gas	Air Air



DUT Editor

DUT record label: Station 4 Rotameter alm

Viewing DUT: 12/12

Header: Correction | Range | Tolerance | Test | Conditions | Read | Set | Comment

Gas Density Correction Type: Square Root

Normal Operating Conditions (Change these as necessary)

Absolute Pressure	14.7	psi
Temperature	21.11	C

Process Gas: Air Air

Operating Density (kg/m <sup>3</sup> )	1.200
Compressibility	0.9997

**DUT Editor**

DUT record label: Station 4 Rotameter alm

Viewing DUT: 12/12

Header | Correction | **Range** | Tolerance | Test | Conditions | Read | Set | Comment

Flow Range		Unit	alm	Output Range		Unit	alm
Minimum	0.00	Minimum	0.00	Minimum	0.00	Minimum	0.00
Maximum	5.00	Maximum	5.00	Maximum	5.00	Maximum	5.00
Resolution	0.00	Resolution	0.00	Resolution	0.00	Resolution	0.00

Set Range		Is the DUT a flow controller? <input type="checkbox"/>		Output Adjustment		Slope	1.00000
Unit	N/A	Unit	N/A	Offset	0.00	Offset	0.00
Minimum	N/A	Minimum	N/A	Date		Date	
Maximum	N/A	Maximum	N/A				

**DUT Editor**

DUT record label: Station 4 Rotameter alm

Viewing DUT: 12/12

Header | Correction | Range | **Tolerance** | Test | Conditions | Read | Set | Comment

DUT Tolerance

Tolerance Type: %DUTFS

5 %DUTFS

**DUT Editor**

DUT record label: Station 4 Rotameter alm

Viewing DUT: 12/12

Header | Correction | Range | Tolerance | **Test** | Conditions | Read | Set | Comment

Test Information

Process Gas: Air Air

Calibration Gas: N2 Nitrogen

K Factor: N/A

Default Test: Station 4 Rotameter Select

**DUT Editor**

DUT record label: Station 4 Rotameter alm

Viewing DUT: 12/12

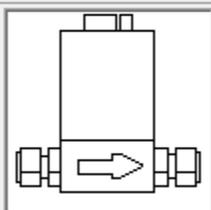
Header | Correction | Range | Tolerance | Test | **Conditions** | Read | Set | Comment

Attitude 1/6

Flow Direction: Horizontal

Mount: Base Down

Description: Standard



Exhaust

Normal Exhaust Condition: Atmosphere

Exhaust Pressure: N/A kPa

**DUT Editor**

DUT record label: Station 4 Rotameter alm

Viewing DUT: 12/12

Header | Correction | Range | Tolerance | Test | Conditions | **Read** | Set | Comment

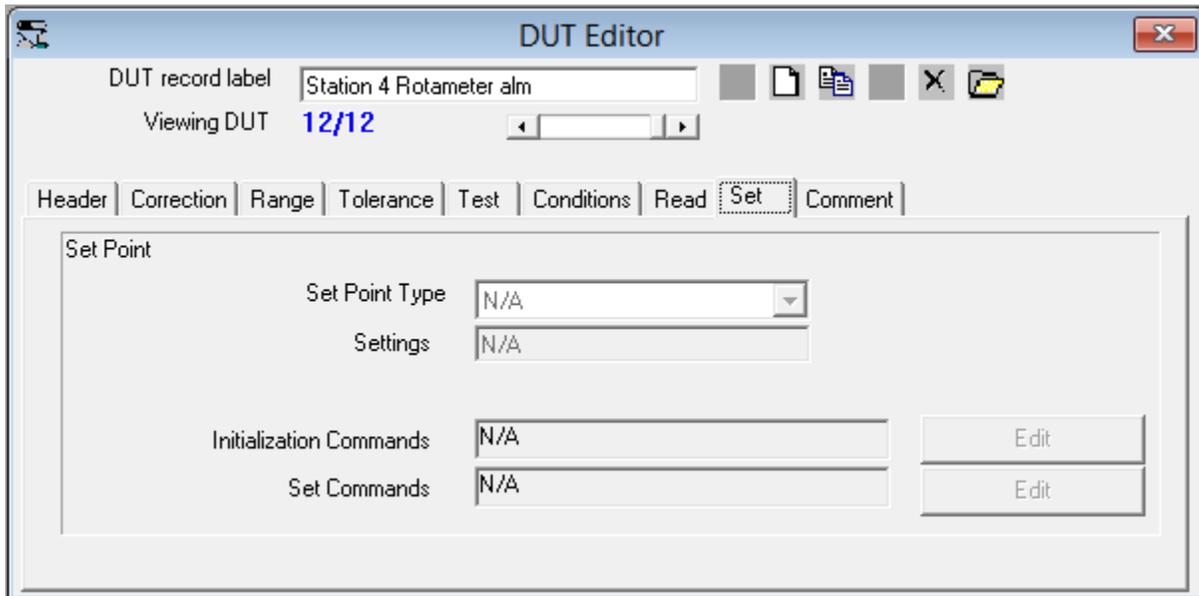
DUT Data Acquisition

Output Type: Manual

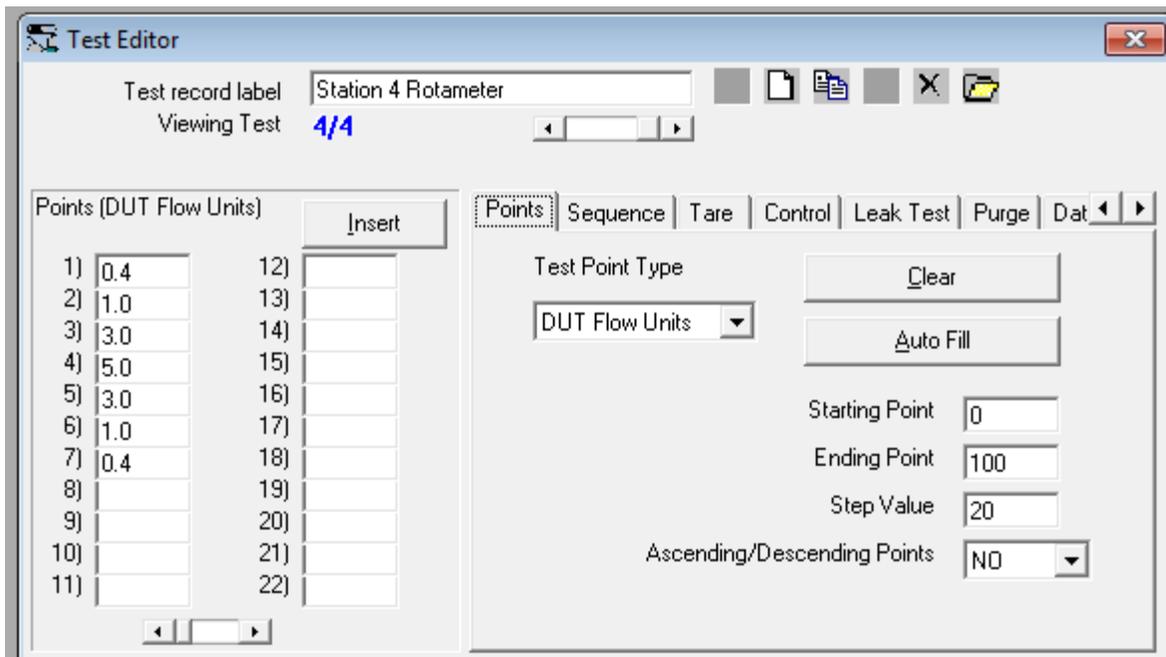
Settings: N/A

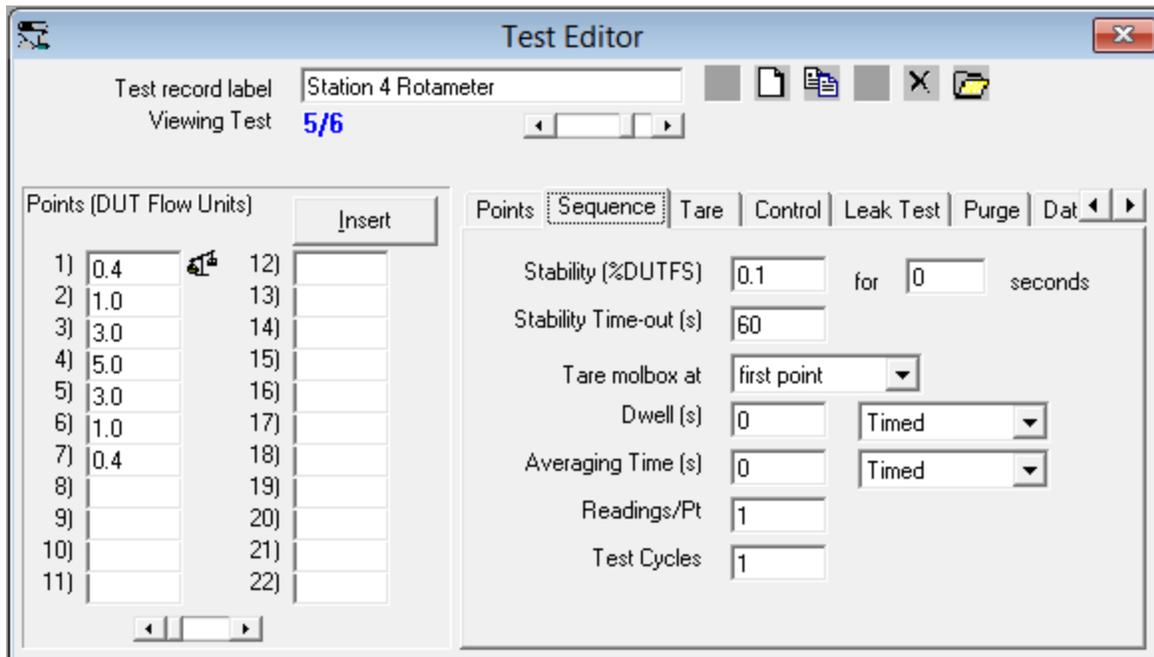
Initialization Commands: N/A Edit

Read Commands: N/A Edit

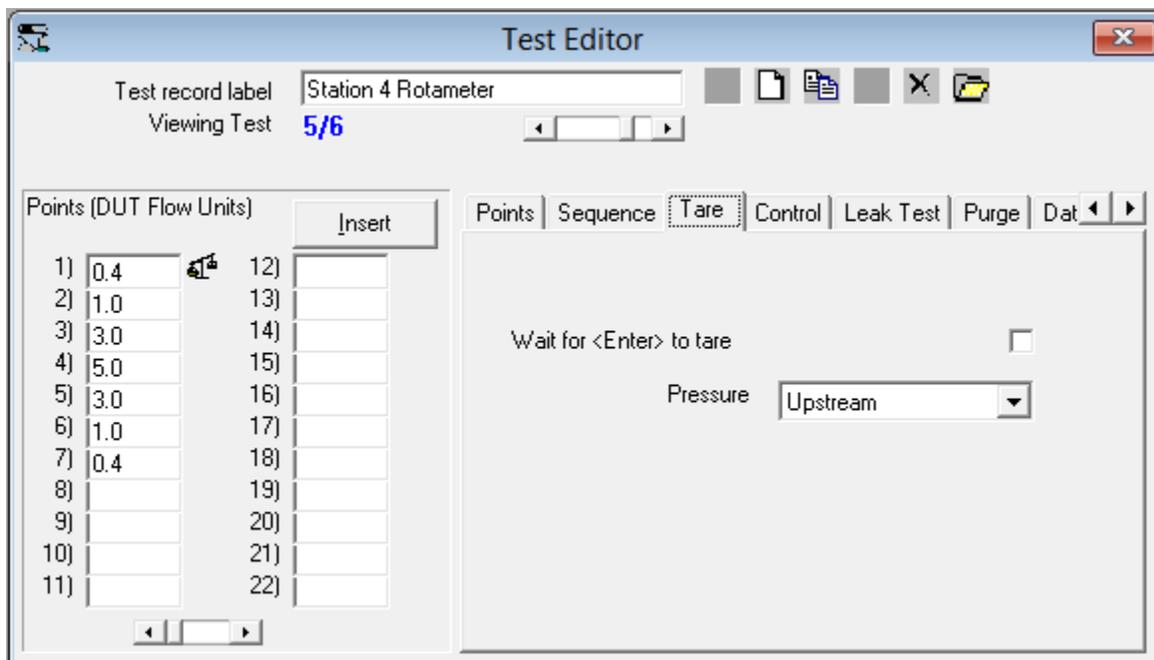


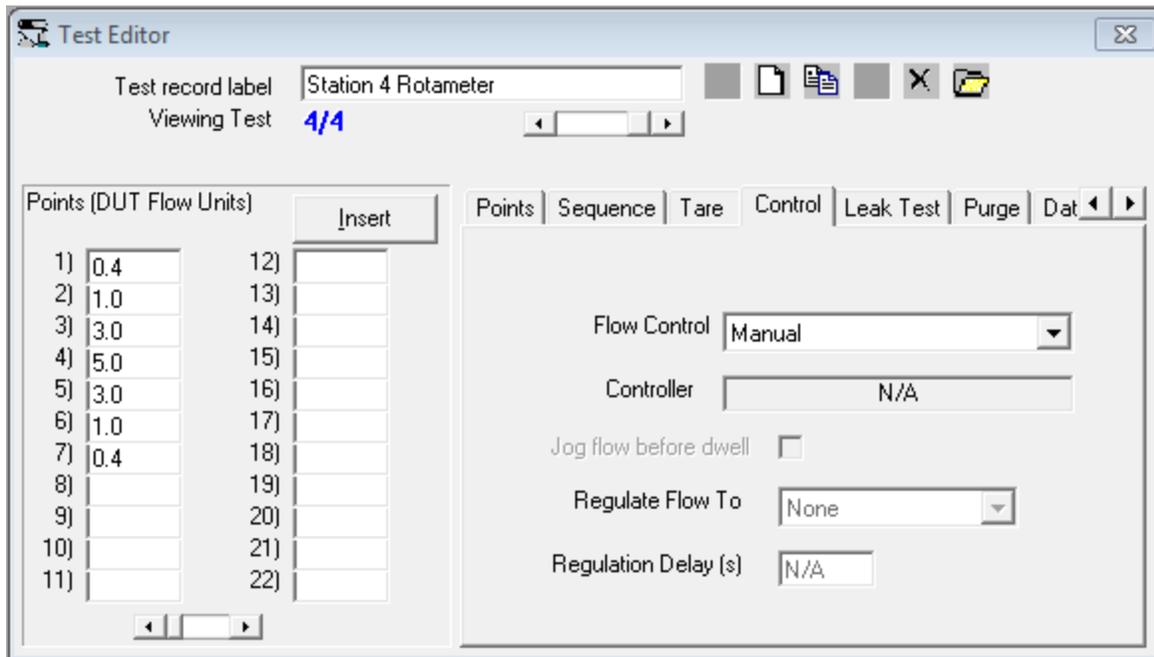
**Test setup for 5 liter per minute (volumetric flow, not mass flow) rotameter**



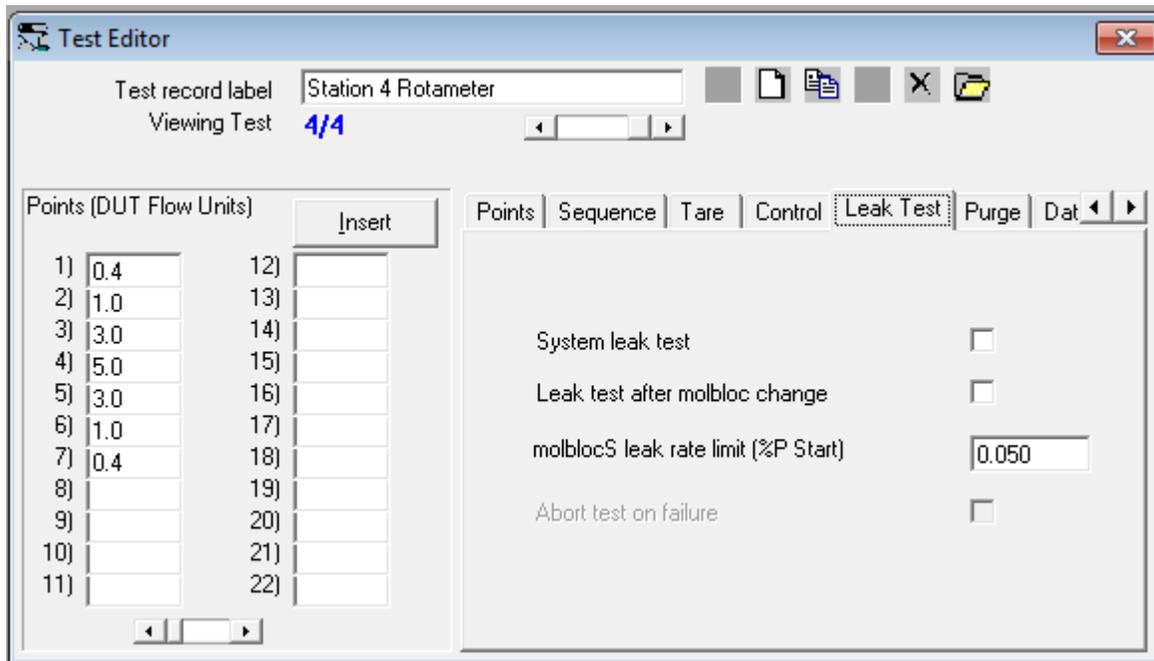


**We do a manual tare before the test also so the tare in the test is optional**





**We leak test manually before the test**



## We didn't purge. Flow is high enough to purge any existing air

Test Editor

Test record label: Station 4 Rotameter  
Viewing Test: 4/4

Points (DUT Flow Units)

1)	0.4	12)	
2)	1.0	13)	
3)	3.0	14)	
4)	5.0	15)	
5)	3.0	16)	
6)	1.0	17)	
7)	0.4	18)	
8)		19)	
9)		20)	
10)		21)	
11)		22)	

Points | Sequence | Tare | Control | Leak Test | Purge | Data

Automatic system purge.

Purge after molbloc changes.

Purge target flow (%DUTFS) N/A

Purge time (s) N/A

Test Editor

Test record label: Station 4 Rotameter  
Viewing Test: 4/4

Points (DUT Flow Units)

1)	0.4	12)	
2)	1.0	13)	
3)	3.0	14)	
4)	5.0	15)	
5)	3.0	16)	
6)	1.0	17)	
7)	0.4	18)	
8)		19)	
9)		20)	
10)		21)	
11)		22)	

Sequence | Tare | Control | Leak Test | Purge | Data | Aux

Read DUT Output

Read DUT Set Point

Read DUT Pressure (if not already required)

Read DUT Temperature (if not already required)

