Adjustable Flow Splitter & Adjustable Makeup-Flow Splitter Operation

To vary Split Ratio, simply turn Adjustment Knob.

Turning Knob counterclockwise will increase Split Ratio (decreasing Low Split Flow Out); turning Knob clockwise will decrease Split Ratio (increasing Low Split Flow Out). For a given Inlet Flow, Split Ratio and Low Split Flow Out vary inversely.

Varying Inlet Flow at the same Knob Setting changes Low Split Flow Out directly and proportionately (i.e.: doubling Input Flow doubles Low Split Flow Out).

If you wish to keep a constant Low Split Flow Out while varying Input Flow, you must adjust Knob accordingly. When increasing Inlet Flow, turn Knob counterclockwise (increasing Split Ratio). When decreasing Inlet Flow, turn Knob clockwise (decreasing Split Ratio).

To closely approximate desired Low Split Flow Out, consult the Manufacturing Test Log shipped with your splitter. The data in the Test Log is measured with NO Back Pressure downstream from the splitter.

The 2nd column of data shows Low Split Flow Out, labelled "Capillary Flow". The 4th column shows Back Pressure generated by the splitter when providing that particular Low Split Flow Out. These numbers in 2nd and 4th columns are always linked.

When using an Inlet Flow different from the calibration Inlet Flow, adjust Knob until the Back Pressure corresponding to the desired Low Split Flow Out is attained. Confirm and fine tune flow using timed measurement of flow volume, if desired. Turning Knob counterclockwise will decrease Back Pressure and turning Knob clockwise will increase Back Pressure.

The same approach can be used by recording and replicating Back Pressures and Low Split Flow Rates within your system configuration.

Analytical
SALES & SERVICES, Inc.

973-616-0700
www.analytical-sales.com