Adjustable Flow Splitter & Adjustable Makeup-Flow Splitter Operation

To vary Split Ratio, simply turn Adjustment Knob.

Turning Knob clockwise will increase Split Ratio (decreasing Low Split Flow Out); turning Knob counterclockwise 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 clockwise (decreasing Low Split Flow Out). When decreasing Inlet Flow, turn Knob counterclockwise (increasing Low Split Flow Out).

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 2\textsuperscript{nd} column of data shows Low Split Flow Out, labelled “Capillary Flow”. The 4\textsuperscript{th} column shows Back Pressure generated by the splitter when providing that particular Low Split Flow Out. These numbers in 2\textsuperscript{nd} and 4\textsuperscript{th} 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 clockwise will decrease Back Pressure and turning Knob counterclockwise 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.