

# DBA Installation

Installation and use of the DBA debubbler requires that close attention be paid to controlling flow rates and pressure drops. For reliable separation of gases flow rates through both the bypass and the analyzer must be controlled. The rates will depend on viscosity as well as the liquid and gas components in the sample. To determine the flow rates will require running under actual conditions to determine then operating within a 'safe' area within that envelope. To prevent further bubbles after the separation, the gas-free liquid must pass through the analyzer prior to exiting where a pressure drop occurs. This ensures that dissolved gases do not emerge prior to entering the analyzer.

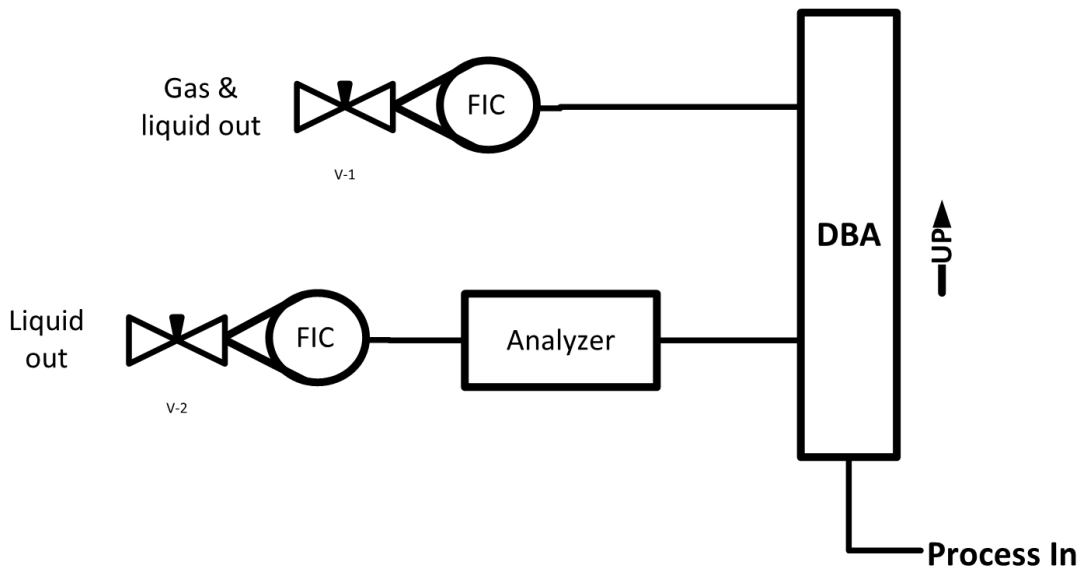


Figure 1: DBA installation detail sketch

During installation ensure that the DBA is mounted vertically with the process entering from the bottom.

Experience has demonstrated the successful operation of the DBA in a variety of chemical processes from high temperature, high pressure resin autoclaves to oxidizer samples containing 60% gas by volume. Two sizes of the DBA are available to help accommodate bypass and sample flow rate requirements.