

To manage the **Viral Inactivation (VI)** process, the system regulates the **Feed Pump** speed based on the **assigned feed SUSV weight** to maintain either discrete or proportional flow rates. During the **Feed command sequence**, the PAS monitors process variables such as **pH1 (inlet)** and **pH2 (outlet)** using **Analogue Indicating Transmitters**. If the measured pH value falls **outside the High or Low Tolerance Setpoints** for a configurable stabilization time, the system triggers a **divert action**, automatically switching the **VI valve path** from Collection to the **VI Inlet or Outlet Drain** until the specification is met. Additionally, the **Acid Pump** is modulated proportionally to the Feed Pump speed to maintain precise **inline pH control** throughout the operation