APPLICATION BULLETIN

CIP return line turbidity monitoring

Application

Install the VOM on the CIP return line before the drain valve. At the start of rinsing, a mixture of water and product flows past the sensor. Monitor the transition to determine the rinse endpoint. Use the measured turbidity to improve the first rinse and adjust timer-based flushing where the cleaning process permits.

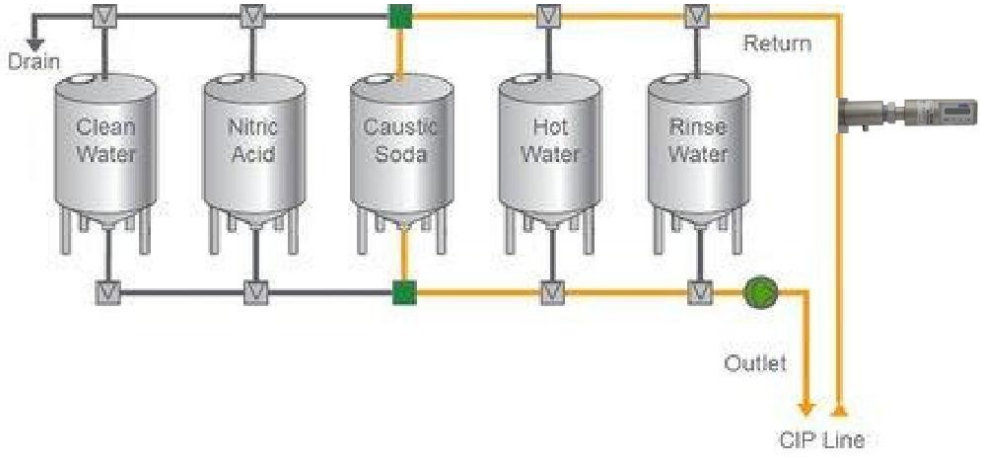
Measurement and control

The online sensor continuously sends a 4-20 mA turbidity signal to the PLC. At the validated rinse endpoint, the PLC can stop flushing. During acid washing, detected product carryover can trigger diversion to protect the acid tank. HART communication supports setup and diagnostics. Stainless steel construction, IP67 or IP68 configurations, and EPDM, Viton or Kalrez seals are specified. Select the configuration for the process conditions and maintain the sensor as required.

VOM configurations for the CIP return line

Features and application details

- Configurable calibration through the display, HART communicator or laptop
- Measurement history
- Four recipes with up to 16 calibration points each
- Integrated USB port
- Long-life LED with automatic compensation
- No display, local display or remote display
- Process fitting options available



CIP supply and return arrangement