



Sampling/Point Of Use System

Allegheny Bradford Corporation is recognized as the world leading manufacturer of shell & tube heat exchangers. Our system is custom designed for sanitary environments, supporting CIP and SIP of the process fluid lines.

Features & Benefits

- Easy to install, operate and maintain. Systems are self contained, shipped fully tested, passivated and ready for installation
- Sample/Point of Use available instantly
- Designed with a single use point that can be configured as a low point drain during CIP and SIP operations
- Custom designed coil-tube heat exchanger to meet your specific requirements, either heating or cooling
- ASME BPE double tubesheet leak detection compliant
- Continuous flow through system ensures constant sterility
- 316L stainless steel seamless construction, with surface finishes down to <15 Microinches Ra. & Electropolished available
- Accurately designed Pitot tube for optimum flow
- Complete documentation & turn-over packages. Systems are provided with full traceability, including (MTR's) and welding logs for all process contact materials. Data sheets are supplied with every design
- Many software programming options available
- Superior quality utilizing hygienic Top Line or customer specified valves
- Included shellside & cabinet drain



Available Options

Mechanical:

- Fully enclosed stainless steel cabinet
- Customer specified valves
- Multiple surface finishes available

Operational:

- Complete or partial automation
- DCS interface
- HMI/PLC, local controls
- Data collection via memory card or USB flash drive
- Steam In Place (SIP) capability
- Clean In Place (CIP) lowpoint drain



Operation

Our system design employs a continuous flow of process fluid through the system when idle (Figure 1). This operation allows instant availability of process fluid and the system remains sterile at all times. Other modes of operation include Hot Use/Sample (Figure 2), Purge (Figure 3), Cold Use/Sample (Figure 4).

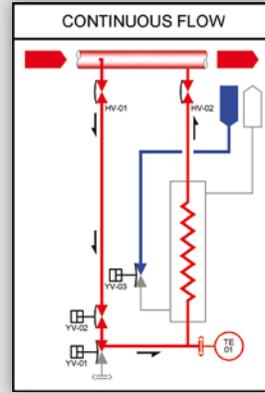
CIP & SIP

Clean In Place (CIP)

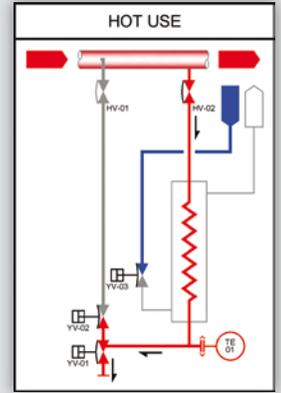
Allegheny Bradford Corporation's automated POU System allows for CIP of the system whenever the process fluid supply line is cleaned.

Steam In Place (SIP)

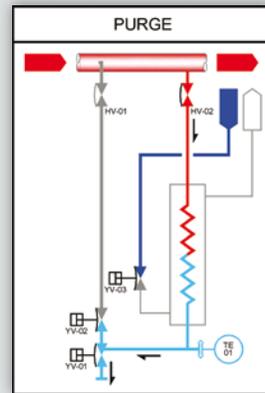
Allegheny Bradford Corporation POU System will support SIP operation. Required to enable this capability is an updated PLC program. This can be ordered with the unit, or retrofitted to an existing system. Additional piping would be required to supply condensate piping, 1 steam trap, and a drain for the disposal of the condensate.



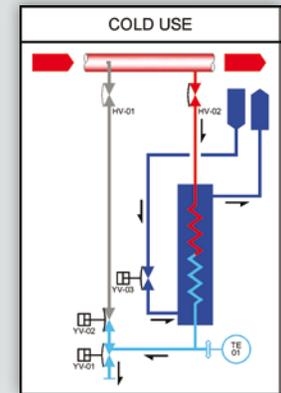
1



2



3



4



Total Project Management:

The Added Value with ABC

With more than 40 years of experience in the ultra-pure processing industry, Allegheny Bradford Corporation knows what it takes to make effective modular process systems for sanitary applications: expert project management. At ABC, total project management ensures the successful on-time and on-budget fabrication of your system as well as seamless validation and startup.

Our comprehensive project management approach is built around a relentless attention to detail, with full documentation every step of the way. Your ABC project manager supervises and verifies each procedure through a team of managers carefully selected for their expertise in all the individual disciplines required

to design, fabricate, test, install and commission your modular process system. We have also developed proven protocols to ensure seamless communication and tight customer coordination, so you always know what to expect. And as the premier manufacturer of stainless steel components, we offer the flexibility to customize skids for any application, plus the quality control experience to meet the highest industry standards.

This exacting project management process, combined with our manufacturing expertise, allows ABC to deliver modular process systems of unsurpassed quality down to the smallest detail.



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