CIP – Clean In Place

Dispelling the myths
Ball Valves

- NOT CIP’able, even if 3-A design
- Must be disassembled and cleaned out of place
Final Rinse Tank

- Should have NO foreign material or scale build-up
- Any foreign material means you’re rinsing with dirty water!
Heat Exchanger

- Commonly missed inspection point
- Look for damage or build-up
Spray Balls

Ensure:

• Correct position
• Shape/type
• Full coverage
• Inspectable
• No foreign material
• No damage
COP

Clean out of Place

- Pumps
- Ball Valves
- Angled tubing
- Gaskets
- Other parts that can’t be CIP’d

Figure 5. Example of COP tank used for small parts.
Dead Zones

- Prime harborage for bacteria
- Consider design to eliminate
Strainer

• Prevent reintroduction of foreign material after washing
• Install on return of CIP washing solution
Validation

- Time
- Temperature
- Flow Rate
- Pressure
- Conductivity
- Pump/Valve Sequencing
- Chemicals
Questions?