

CUSTOMER'S ISSUE

Amino acid processing and filling time was calculated to be over 10 hrs. Customer requested solutions to speed up this process.

Objective:

- Optimize the slowest parts of the process which were the powder addition and CIP.

CPME SOLUTION

Description of the CPME solution:

- ✓ Use of automated in-line blending system for fast and reliable powder injection, 500kg in less than 10 minutes in trials.
- ✓ Separation of CIP /SIP of production vessel from storage vessel using automatic valves to allow CIP/SIP of processing system while still filling.

Use of automated in-line blending system for fast and reliable powder injection, 500kg in less than 10 minutes.



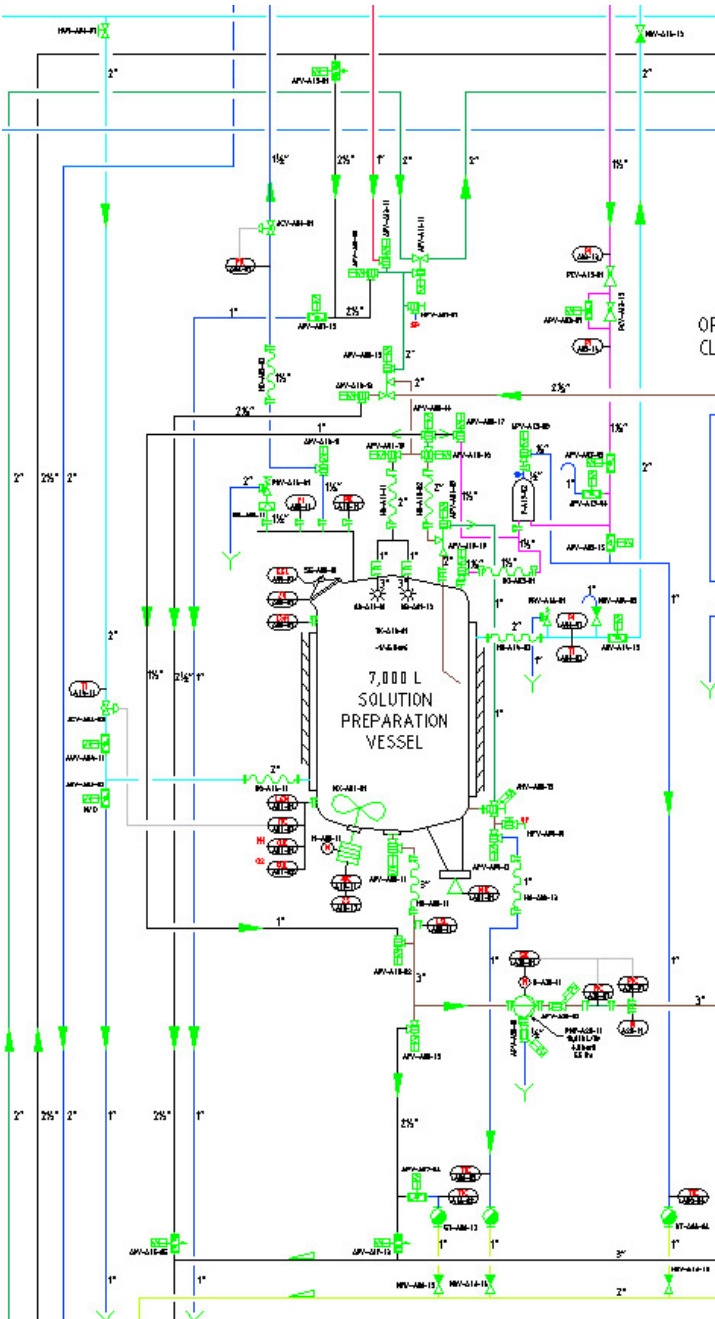
Avoid undesirable waste of valuable product by manual handling



Dissolve large particles by gentle low shear blending directly into the flow stream.



Separation of CIP /SIP of production vessel from storage vessel using automatic valves to allow CIP/SIP of processing system while still filling.



Fully automated, safe and accurate CIP/SIP.

Steam temperature control to assure effective sterilization and condensate recovery.

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