

CUSTOMER'S ISSUE

Customer requested process solution with very low oxygen content therefore ensuring a fresh and chemical free formulation with maximum shelf life.

Objectives:

- Prevent oxidative degradation.
- Prevent reaction with atmospheric oxygen.

CPME SOLUTION

Description of the CPME solution:

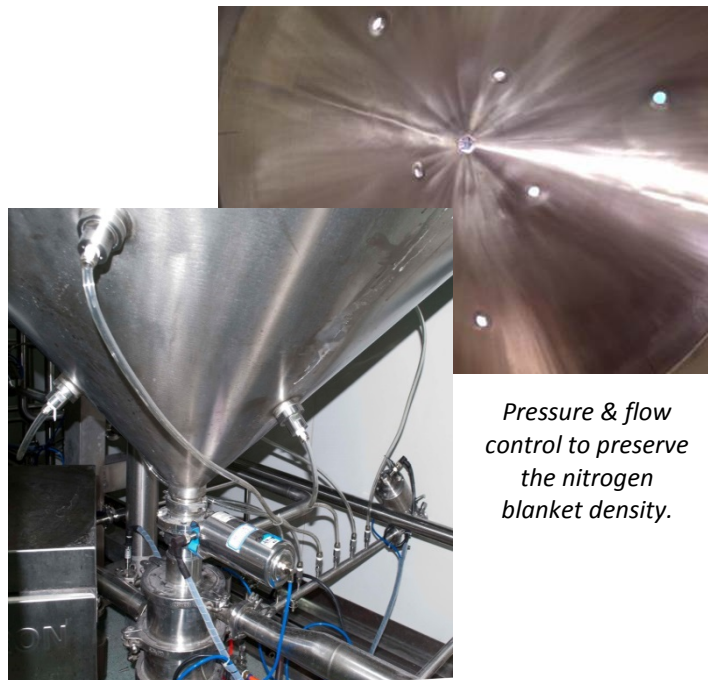
- ✓ Nitrogen blanketing on WFI distribution systems.
- ✓ Use of simplified fluidized bed technology for O2 stripping in bulk powder.
- ✓ Use of vacuum systems during transfers, filling and processing.
- ✓ Use of automated in-line blending system for hands free powder injection.

Nitrogen blanketing on WFI distribution systems.



Extensive use of high purity nitrogen for O2 stripping and blanketing.

Use of simplified fluidized bed technology for O2 stripping in bulk powder.



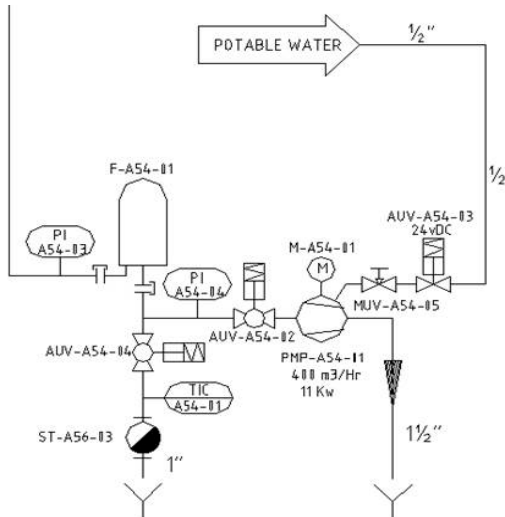
Pressure & flow control to preserve the nitrogen blanket density.

Fluidization accomplished by nitrogen injection to maximize Oxygen removal.

Use of vacuum systems during transfers, filling and processing.



High quality stainless steel components



Vacuum line equipped with sterile filter and SIP ready

Use of automated in-line blending system for hands free powder injection.

