

BUFFER MANAGEMENT AND IDENTIFICATION IN BIOPROCESSING SYSTEM

ABSTRACT

A buffer management system includes at least one workstation configured to support a supply of concentrated buffer solution and an inline dilution skid having a manifold and at least one workstation to support delivery of diluted (surge) buffers from the inline dilution skid. The latter workstation also serves to supply ready-made (diluted) buffers to a bioprocessing unit. The manifold is in fluid communication with the supply of concentrated buffer solution and is adapted to be placed in fluid communication with a source of water for injection (WFI). The inline dilution skid is configured to variably mix the supply of concentrated buffer solution and the source of WFI to obtain a range of diluted buffer solutions. Processes for automatically identifying the arrangement of buffer solutions in a bioprocessing application use signals from various sensors to identify the fluid connections between components of the system.

[Figure 1]