



# PharmaChem Cosmetics Industries



WE MANUFACTURE MACHINERY & EQUIPMENTS FOR PHARMACEUTICAL, BIO PHARMA, BULK DRUG, FORMULATION, API, AYURVEDIC, HERBAL, FOOD, COSMETIC, CHEMICAL & BEVERAGES INDUSTRIES.

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## CIP WIP SYSTEM - WASHING SYSTEM OF EQUIPMENTS

Clean-in-place (CIP) is a method of cleaning the interior surfaces of pipes, vessels, process equipment, **filters** and associated fittings, without disassembly.

Closed systems were disassembled and cleaned manually. The advent of CIP was a boon to industries that needed frequent internal cleaning of their processes. Industries that rely heavily on CIP are those requiring high levels of hygiene, and include : **dairy, beverage, brewing, processed foods, pharmaceutical, and cosmetics.**

The benefit to industries that use CIP is that the cleaning is faster, less labor-intensive and more repeatable, and poses less of a chemical exposure risk. CIP started as a manual practice involving a balance tank, **centrifugal pump**, and connection to the system being cleaned. Since the 1950s, CIP has evolved to include fully automated systems with **programmable logic controllers**, multiple balance tanks, **sensors, valves, heat exchangers, data acquisition** and specially designed spray nozzle systems. Simple, manually operated CIP systems can still be found in use today.

### ( PHARMACHEM COSMETICS INDUSTRIES )

Depending on soil load and process geometry, the CIP design principle is one of the following:

- deliver highly turbulent, high flow-rate solution to effect good cleaning (applies to pipe circuits and some filled equipment).
- deliver solution as a low-energy spray to fully wet the surface (applies to lightly soiled vessels where a static spray ball may be used).
- deliver a high energy impinging spray (applies to highly soiled or large diameter vessels where a dynamic spray device may be used).

