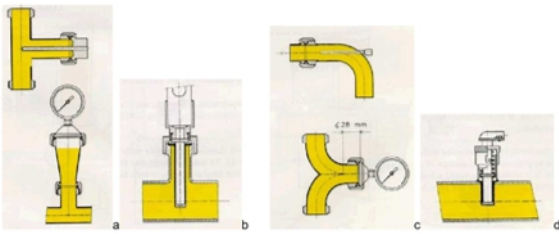


Achieve Sustainable & low cost Clean-In-Place

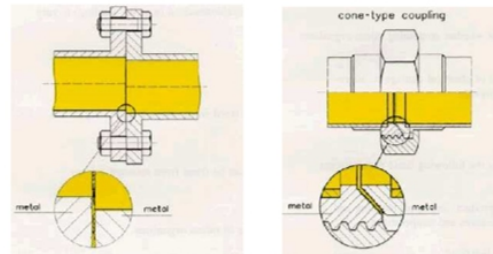
A clean-in-place (CIP) system is among the largest users of consumables at a hygienic processing plant. Presented here are some tips for reducing the consumption of water, chemicals and time in CIP operations. It is one of the most important aspects of hygienic production; however, many plants ignore CIP procedures unless issues arise. Due to this oversight, opportunities to make CIP more sustainable are lost.

There are many process design philosophies, mechanical components and automation solutions that make this not only feasible, but cost effective. Based on these philosophies some of the tips are as follows-

1. Interface management of two solution during CIP Steps
2. Identification and removal of dead legs and pockets.



Incorrect Dead Leg configurations (a,b) & correct Dead Leg configurations (c,d)



Incorrect mating of metal joints; note that pipes are also not aligned

3. Integrating good practices early in the design of a new plant or expansion - Such as locating the CIP units central to the largest users, will minimize dedicated CIP piping and cost per CIP. It can result in savings that more than offset the initial capital cost. There are more ways to do it.
4. Product recovery and instrument optimized rinses - In the case of existing plants, where resizing piping and moving or adding additional CIP units may be impractical, there are still many opportunities to improve CIP sustainability.
5. Self-priming liquid - ring pumps improve CIP robustness.
6. Pre-rinses targeted at the dirtiest piping first.
7. Revalidate CIP system design at least once a year period - Specially flowrate, pressures at spray devices of tanks, conductivities of solutions and temp. Overdoing of these parameters have been found. You will see lots of opportunities and surprises to save Money.

Happy to help.
Feel free to ask more on Cleaning In Place.

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