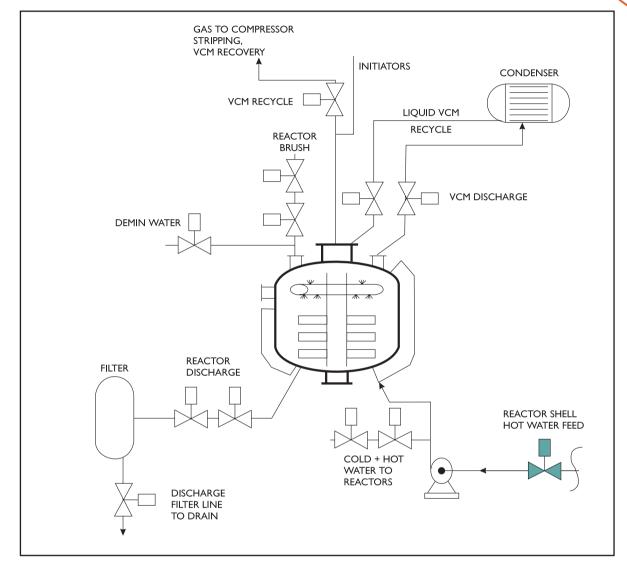
# **PVC Reactor wash**



## Introduction

After the PVC reaction has taken place, the PVC product is discharged and the reactor is prepared for the next cycle. Before the new cycle can begin, the PVC reactor must be washed out. This is done with demineralized water. This bulletin describes the application, it's requirements, and Metso Automation solution.

## **The Process**

The reactor wash is an important element of the cycle, to prepare the reactor for the next charge of product.

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The process conditions are usually:

- □ Fluid: demineralized water
- □ Flow:
  - 12 bar / 174 psi
- Pressure: 20/30 °C / 68/86 °F Temperature:
- Application demands



The reactor cleaning needs are twofold:

cleaning time as short as possible, for maximum production no leakage of demineralized water into reactor

### Valve selection

For this application a Wafer-Sphere disc or triple eccentric Neldisc valve are the best solution.

## Features and benefits

The benefits are:

- Full flow provides maximum capacity for rapid cleaning
- Bubble tight shutoff assures integrity of reactor process conditions
- Economical solution with long lifetime and minimum maintenance

## Valve selected

Type: Wafer-Sphere Double eccentrically mounted

- disc valve
- Body and disc in Stainless Steel
- Soft, PTFE filled seat providing long term, tight shut-off, (with Neldisc tight shut-off metal seat)

Type: Neldisc Triple Eccentric Disc Valve

- □ Economical solution
- If pressure drop creates excessive noise, S-Disc noise reduction available
- □ Tight shutoff over long lifetime
- □ Temperature and application proven solution



Metso Automation nelesCV Wafer-Sphere disc valve



Metso Automation Neldisc triple eccentric disc with S-Disc® design

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The information provided in this bulletin is advisory in nature, and is intended as a guideline only. For specific circumstances and more detailed information, please consult with your local automation expert at Metso

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