

Semiconductors

Gas flow rate control

N2 flow rate control for chemical spray nozzle

# More uniform application of wafer cleaning chemicals!



## **Current Situation**

- The nitrogen flow rate for chemical spray nozzles is controlled by adjusting the regulator pressure.
- Due to miniaturization, the chemical flow rate must be minutely adjusted for each type of product or process.

## **Current Issues**

#### Problem 1

When the relationship of pressure and flow rate changes due to clogging, etc., the amount of chemical changes, affecting the quality of cleaning.

#### Problem 2

For existing regulators, it is difficult to make fine changes in settings from a control device.





### Solutions



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