Taking process control to

a new level

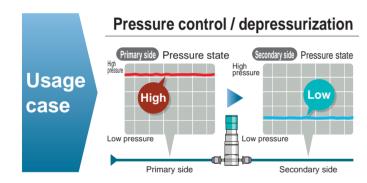
Regulator for process gases

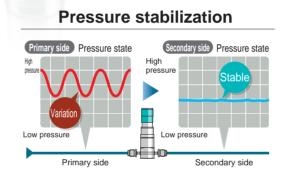
PGM Series

CKD's process gas regulators boast industry-leading sealing performance, hysteresis, and repeatability. Achieves a stable process through high-precision pressure/flow rate adjustment of supply gas.



HIGH PRECISION CONTROL OF PROCESS GAS IN ETCHING / FILM DEPOSITION APPARATUS



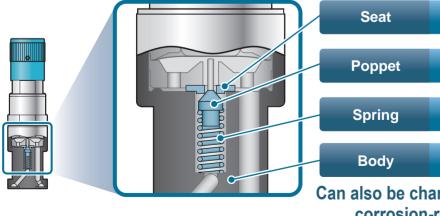


High corrosion / High quality material

- High corrosion-resistant material
- Electropolishing / ultra-precision machining / ultra-precision cleaning

Optimum design

- Reduced sliding parts to the limit
- Optimized diaphragm structure
- Material optimization for smooth operation



Seat PFA

Poppet SUS316L

Spring SUS316

Body SUS316L

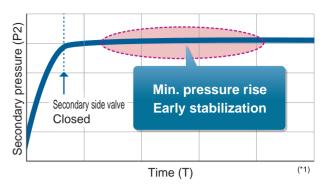
Can also be changed to different highly corrosion-resistant materials

High-spec materials and design realize actual durability of more than 3 million cycles Ensures high controllability and high cleanliness even after long-term use

High sealability

Contributes to process stabilization

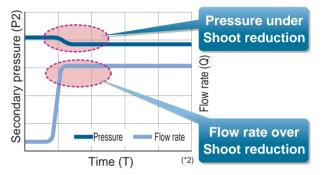
- Optimal design of valve seat and ultra-precise machining
- Minimizes leakage (outflow) to the secondary side when the valve is closed
- *1: Secondary pressure rise image assuming valve closing operation in which the secondary pressure is maintained at flow rate 0.



High micro flow rate controllability

Achieves stable and smooth operation

- Optimized design of valve seat shape
- Stable control even at very small flow rates
- *2: Pressure fluctuation image when controlled with a flow rate of 10sccm.

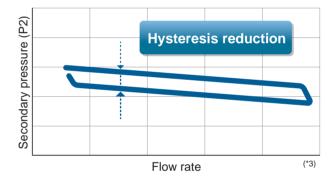


Hysteresis reduction

Goals pressure is met securely

- High-quality materials
- Ultra-precise machining

^{*3:} Secondary → when flow rate is increased or decreased.



Diverse product lineup

