



Burkert Fluid Control Systems in Electronic and Semiconductor Industry

Whether in clean room production in machines for etching or coating, or media supplies and distribution, water treatment or exhaust gas treatment: Burkert offers customized fluid technology solutions for gases and liquids.

Space-saving and compact solutions for your temperature control applications

Optimal cooling is important for the functioning of coating systems based on chemical vapor deposition (CVD) or physical vapor deposition (PVD). With the space-optimized cooling solution from Burkert, it is even easier to manufacture systems that are individually tailored to the needs of your customers.

Burkert Advantages



Increased efficiency



Process reliability



Customized solutions



Compact construction

We make ideas flow.

bürkert
FLUID CONTROL SYSTEMS

Applications in the Semiconductor Industry

Example applications where Burkert offers fluid control solutions



1. EXHAUST GAS AFTERTREATMENT

Precisely controls the ratio of fuel gas to oxygen in a wide load range.

2. VACUUM PUMPS

Our gas inlet system reliably monitors and controls argon to the areas where aggressive or corrosive gases could im-pair or damage the function of the pump.

3. CARBON DIOXIDE CARBONATOR

Precisely dose carbon dioxide into ultra-pure water to the wafer dicing machine or process.

4. NITROGEN BLANKETING

Burkert solution for automatic nitrogen dosing with optimal level and flow measurement prevents contamination of the D.I. water and also ensures that the resistance value of ultra-pure water remains stable at 18.3 MΩ.cm.

5. AIR HANDLING UNIT

Pneumatic valves controls the water in the cooling/ heating circuit.

6. WET PROCESSES

Products for conductivity, pH and flow measurement providing you with the optimum results in wet etching processes. In addition, diaphragm valves can control the process fluids in your wet etching process.

7. PHYSICAL VAPOUR DEPOSITION (PVD)

Our cooling system is compact and customised to your machine.

8. CHEMICAL VAPOUR DEPOSITION (CVD)

Our compact, customised cooling solution ensures the constant temperature of the reactor wall in the CVD machine.



The complete package for semiconductor Industries

Burkert offers a full package of solutions for semiconductor industry. Discover our solutions.

Did you know?

Bürkert supports you with individual system development -- precisely adapted to your requirements

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