

CASE STUDY

Premium Products and Collaborative Design Service Provide Timely Solution

FURON®

Pure Performance

www.processsystems.saint-gobain.com

ASK AN ENGINEER

The Challenge

In the process of independently developing their first single wafer cleaning machine, a leading Chinese OEM wet-bench manufacturer needed fluid components able to handle harsh chemicals and high temperature. Given this was a new endeavor for the OEM and it required a tight development schedule, they sought a trusted industry partner for these components.

Saint-Gobain Solution Combines a Premium Product and Collaborative Design Service

Working with the customer's engineering team and in step with our co-development model, our Saint-Gobain engineers were able to quickly understand the critical requirement and potential pain points of the project, which revolved around the following three items:

- Reliability in an high temperature environment
- Flow stability
- Cleanliness

Our team was then able to adapt our Furon® valves and pressure regulators using O-ring-free and metal-free design to meet the high temperature requirements defined the OEM to ensure optimal safety, system performance and media purity.

Created through rapid prototyping, these newly designed products were then tested and validated by the customer to ensure their process performance. Collectively, Saint-Gobain's co-development model and rapid prototyping capabilities resulted in the completion of the project in a very short period of time.

Customer Experience

Ultimately the customer was able to utilize the broad but specific Saint-Gobain product offerings, including customized manifolds, pressure regulators (Furon® UPRP), suckback valves (Furon® SBVM) and premium valves (Furon® UPX) to manufacture their first wafer cleaning machine successfully. Furthermore, our manifold solution, specifically engineered for this tool, yielded significant operational benefits through a relatively quicker & safer installation, which Saint-Gobain engineers also identified as a critical point for the OEM.



Furon® UPRP Valve



Furon® UPX Valve