CASE STUDY

Collaborative Design Services Result in Agile Solutions

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ASK AN ENGINEER

The Challenge

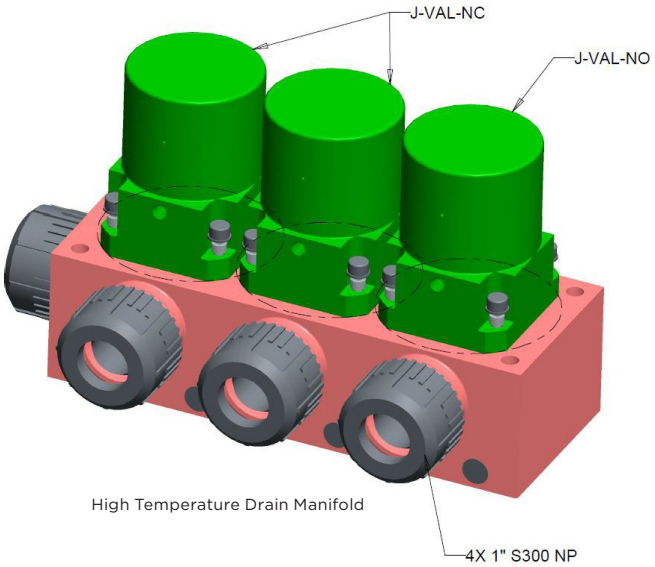
A significant Asian OEM was developing a new cleaning machine, which required incorporating an entirely new high-temperature cleaning module (≥ 302 °F/150 °C). Specifications for this installation required the draining manifold be positioned directly below the process chamber in order to achieve optimum system compactness.

Saint-Gobain's Collaborative Design Services Result in Agile Solutions

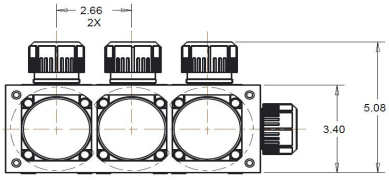
Thanks to a successful collaboration between Saint-Gobain and the OEM in the past and reinforced by the strength of the Furon brand in the semiconductor market, the customer trusted Saint-Gobain's expertise for the chamber design specification. As a result, Saint-Gobain application engineers were trusted with critical and confidential information to develop this unique manifold solution:

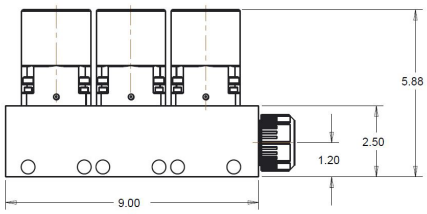
- Positioning and environment > Offer room for the manifold
- Time available to drain the chamber > Allow proper Cv evaluation
- Exact liquid temperature at the drain entry > Define valve and construction material

With the information above, the Saint-Gobain design team was able to quickly propose a solution and offer an initial 3-D drawing. This drawing was used to validate the proper installation of the manifold and offer a basis for fine tuning the component design. After a few adjustments, the design was finalized and manifold produced for the testing phase of the manufacturer's tool.



High Temperature Drain Manifold





Customer Experience

Trusted communications between local Saint-Gobain application engineering and the customer's teams fostered the quick creation of the manifold solution that fits its requirements perfectly. This exchange coupled with Saint-Gobain's fast prototyping services after the manifold design validation offered the OEM an agile solution and enabled them to get their system up and running for the testing phase of their project.

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