

Ventilators

RESULTS

- Provided technical support and fluidics education
- Designed comprehensive fluid automation solution
- Modified valves to perform to customer's specifications
- Supported customer's global manufacturing centers

APPLICATION

Ventilators for continuous respiratory support.

CHALLENGE

A startup company was developing a low-cost respiratory ventilator with a user-friendly design targeted at developing countries. The ventilator incorporated valves that controlled the containment, mixing, and distribution of air to the patient. The company needed technical support and education on the functionality of the fluidics, a turnkey product solution, plus manufacturing support on a global basis.

SOLUTION

ASCO™ supported the customer's project team with technical assistance and responded to changing requirements as the ventilator was designed. The final design used an ASCO fluid automation solution consisting of standard [411 Series miniature solenoid valves](#) and four custom solenoid valves modified to deliver the required performance. ASCO's global footprint enabled local support at the customer's design center in California and at its manufacturing centers in India and Singapore. The customer chose ASCO because it was the only supplier that could provide a high level of global application expertise, plus a comprehensive fluid automation package.



Providing global expertise and support, Emerson helped develop a low-cost respiratory ventilator for developing countries. The new fluid automation solution with modified valves performed according to customer expectations.

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