

# Pinch Valves

High-quality pinch valves customized to meet the functional and design requirements of our customers' fluid management system needs.

Since every fluid management system is unique, Moog has the experience and ability to adapt and customize our designs, enabling us to meet a wide range of design requirements.



## Moog provides pinch valves that are customized around the following design requirements:

- ▶ Tubing size and type
- ▶ Pinch valve stroke
- ▶ Normal position (open or closed)
- ▶ Actuation time
- ▶ Power requirements
- ▶ Position sensing
- ▶ Space/mounting constraints
- ▶ Audible noise constraints
- ▶ End use environment
- ▶ Additional sensing requirements (integrated sensing capabilities)

## Examples of Moog fluid management sub-systems utilizing pinch valve technology:



### AAR-1000 Active Air Removal Device

Moog developed and manufactures the AAR-1000 Active Air Removal Device for Medtronic®. The AAR-1000 is a sensing and fluid management sub-system for a cardiopulmonary bypass application. It employs ultrasonic sensors to detect air in the blood circuit, pinch valves to regulate flow, and accesses a vacuum system to purge potentially dangerous air from the blood circuit.



### LifePort® Kidney Transporter

The LifePort controls the flow of critical fluids through kidneys for transplantation using a rotary peristaltic pump, integrated sensor technologies for temperature, pressure and air bubble detection, and pinch valves to regulate fluid flow. The LifePort won a Gold Medical Design Excellence Award presented by Canon Communications.