

Chromatography equipment

RESULTS

- Created single-source custom valve assembly
- Achieved customer's high-pressure, low-flow, and Ethernet connectivity requirements
- Optimized instrument's performance



APPLICATION

Continuous chromatography machine for process development and single-use manufacturing.

CHALLENGE

An analytical instrument manufacturer was designing a continuous chromatography machine for process development and single-use manufacturing. The machine incorporated a pneumatic valve to apply pressure to a proprietary diaphragm valve. The customer required a pneumatic valve that could operate with high pressure (300 psig) and low flow (<.025 Cv), plus be connected to an Ethernet control system.

SOLUTION

The customer turned to ASCO's™ Analytical and Medical Group to design a turnkey fluid automation solution. ASCO was the only supplier that could meet the applications high-pressure, low-flow, and Ethernet connectivity requirements in one package. The custom manifold assembly combined the [411 Series miniature valves](#) with a [G3 Ethernet manifold](#). ASCO's capability to meet the application's demanding requirements meant the customer did not have to redesign the instrument to operate at lower pressure and higher flow. The analytical instrument manufacturer was pleased with the solution's performance and is working with ASCO on the next generation of products.

Integrating multiple components, Emerson's Analytical and Medical Group designed and built a turnkey pneumatic valve. The optimized, custom assembly provides high-pressure, low-flow, and Ethernet connectivity in one package.

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