

CASE STUDY:

STREAMLINING HIGH-VOLUME VALVE ASSEMBLY



▶ How Fluid Flow Streamlined Valve Assembly for a Major Order

Fluid Flow's engineering expertise and precision assembly processes allowed us to deliver over 190 custom-built, high-performance butterfly valve assemblies—on time and on spec—amid tight deadlines and complex integration requirements.



Valve assembly as received from the factory.



Installed components: limit switches, filter regulator, stainless steel tubing & fittings.



Testing the modified valve assembly.



Ready to Ship



THE CHALLENGE:



When a major customer needed over 190 butterfly valves for a large-scale project, Fluid Flow was tasked with not only providing high-quality valves but also integrating components from multiple manufacturers. The customer required pneumatic actuators, limit switch packages, stainless steel flexible tubing, and filter regulators—all of which needed to meet exacting standards for precision and performance. The challenge was significant: large volumes, high precision, and tight timelines.

OUR SOLUTION:



Fluid Flow took a structured, process-driven approach to overcome these challenges:

1

Standardized Assembly:

Developed a repeatable process to ensure consistent quality and minimize variation.

2

Multi-Manufacturer Integration:

Coordinated components from various suppliers for seamless valve performance.

3

Rigorous QA Testing:

Conducted bench tests for actuation, leaks, and full performance verification.

RESULTS:



- Delivered 191 valves on schedule, with no rejected units.
- Reduced onsite assembly time by 30–50%, improving installation efficiency.
- Ensured operational confidence by providing clear documentation, including performance and testing records.

