

BELLOWS MANUFACTURING

Unleashing Flexibility, Ensuring Reliability

For almost a century, Alloy Precision Technologies has delivered superior Bellows and Bellows Assemblies engineered for extreme reliability and longevity in the most demanding applications. Our precision-crafted Bellows perform in high-temperature, high-pressure environments, resisting vibration and ensuring zero leakage even after extensive duty cycles. When failure

most challenging scenarios.

DUR GUARANTEE

Your growth partner for products and projects

is not an option, industry leaders trust our

bellows to maintain system integrity in the

- Certified and specialized expertise
- Proven reliability in demanding applications
- Integrated, turnkey solutions









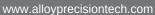














(440) 266-7700

PRECISION, PASSION, PERFORMANCE

OUR PROCESS



APPLICATIONS

- Seals
- Aneroids
- Valves
- Expansion Joints
- Pressure Regulators
- Ball and Gimbal Joints



INDUSTRIES

- Aerospace & Defense
- Instrumentation & Controls
- Energy & Power Gen
- Oil & Gas
- · Industrial Manufacturing



MATERIALS

- Stainless Steel
- Inconel
- Monel
- Hastelloy
- Titanium
- Yellow Metals

HYDROFORMED BELLOWS

Alloy's exclusive hydroforming process meticulously crafts our metal bellows, ensuring unparalleled dimensional accuracy and structural integrity. Each convolution shape, specially designed in-house, is perfect along the profile, ensuring superior performance in even the most critical applications.

- Bellows components and complete bellows assemblies
- Proprietary tooling & automated manufacturing technologies
- Outer diameters between 0.200" 8" diameter
- Wall Thickness: 0.005" 0.030"
- Bellows are custom made to your requirements (variety of materials, single or multi-ply, and closed-end capabilities)

Quality Assurance & Validation

- X-Ray Film & Computer Radiography
- Spring Rate Test
- Fatigue Cycle Test
- Fluorescent Penetrant Inspection (FPI)
- Nitrogen Bubble Testing
- Helium Leak Testing to 1 x 10⁻⁹
- Pressure Test & Helium Bomb Test
- Al Inspection Technology
- Metallographic Evaluation





