

Electroformed (Electrodeposited) Metal Bellows



Applications

- Hermetic seal
- Volume compensation
- Temperature sensors
- Pressure sensor and switches
- Precision instruments
- Connectors

Features

- Lightweight
- Seamless
- Leak tight
- Flexible

There are 5 kinds of metal bellows: rolled, hydroformed, welded, chemically deposited, electroformed. We electroplate metal onto a mandrel with aluminum material. The mandrel will be dissolved after electroforming. We have completed testing equipment like helium mass spectrometer.

In the process of plating, the mandrel acts as cathode, the electroformed material is anode. Controlling time, current, and current density can decide the electroform thickness. Our bellows can be designed for compression stroke up to 50% of the free length. It is seamless, so no dust, dirt or moisture can get in.

Electroforming process

During the depositing process, the mandrel acts as the cathode, while the electroform material is the anode. The electroform thickness can be controlled by time, current, density in plating tank.

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