High-Sensitivity Low-Pressure Diaphragms

High-sensitivity low-pressure diaphragms are designed for applications requiring a diaphragm that will flex or move in response to a relatively low amount of applied pressure. Common applications include:

- Sensitive aerospace components such as altimeters
- Pressure sensor isolation in food processing and pharmaceutical manufacturing

Low-Sensitivity High-Pressure Diaphragms

Low-sensitivity high-pressure diaphragms are used when the diaphragm needs to remain securely in place, even under high levels of pressure. Common applications include:

- Pressure regulation in pressure-based equipment
- Gas-liquid barriers and failure points for overpressure protection

Metal Pressure Transducer Diaphragms

Metal pressure transducer diaphragms convert pressure fluctuations into a measurable electrical signal that can quantify changes in pressure. These specialized diaphragms are used to sense and create motion in a range of mechanical devices, medical instruments, and industrial equipment. For example, metal pressure transducer sensors and diaphragms are key components of the industrial machinery used to direct semiconductor chips through the fabrication process.