

Bellows

APPLICATION

- *Used in the conveyance of fluids and air in high vibration environments*
 - Airframe level: High pressure, high temperature seals and joints
 - Engine level: Exhaust seals, bleed air applications
 - System level:
 - Used in Ball Joints, Gimbals, and Flexible Metal Hoses
 - Conveyance of air and fluids in high vibration areas

CONSTRUCTION

- *Fully metallic, from Stainless Steel, Inconel or Titanium*
- *Rolled and welded, pressure formed*
 - May be seamless if required
- *Temperature ranges from -420°F to +1,200°F (-251°C to +649°C)*
- *From 1-4 layers as needed*
- *Size ranges from ¼" – 36" ID (0.64cm – 91.33cm ID)*
- *May include braid wire or in combination with ducting where needed*

FEATURES

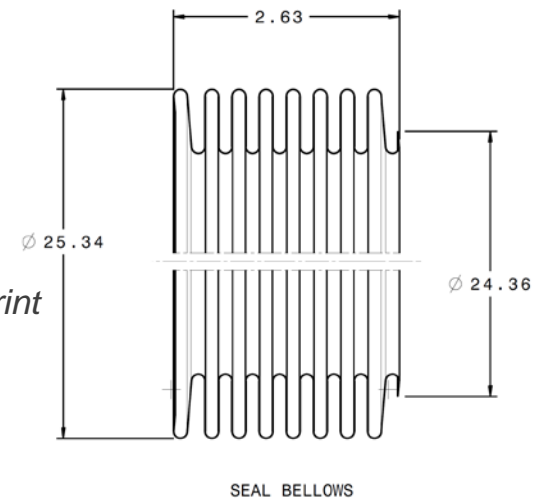
- *Custom designed to applications, including qualification testing, or built to print*

PERFORMANCE

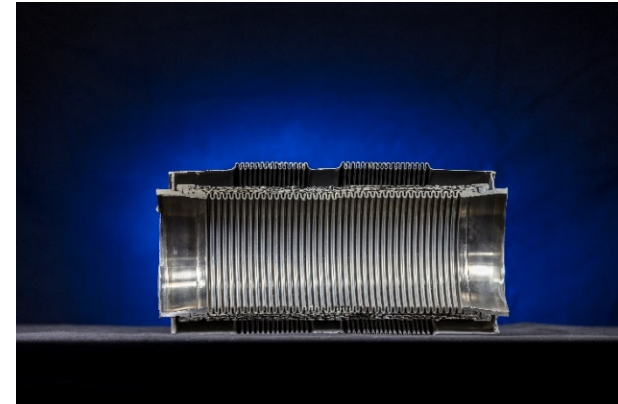
- *Pressure ranges up to 5,000psi in fluid, up to 16,000psi in air*

WHERE USED

- *In Bleed Air Ball Joints from 1.5" to 4" in various commercial engine applications*
- *Exhaust Seals in 1" to 4" in length and from 6" to 36" in diameter, typically in Inconel*



Bellows



- Welded and formed Bellows for flexible Joints
- 1/4" to 36" ID
- Tube manufacturing to Radiographic standards
- Polyurethane Bellows forming 1/4" – 12"; mechanical die forming for larger sizes
- In-house tube manufacturing and Bellows forming machines

