



**FMH Aerospace**

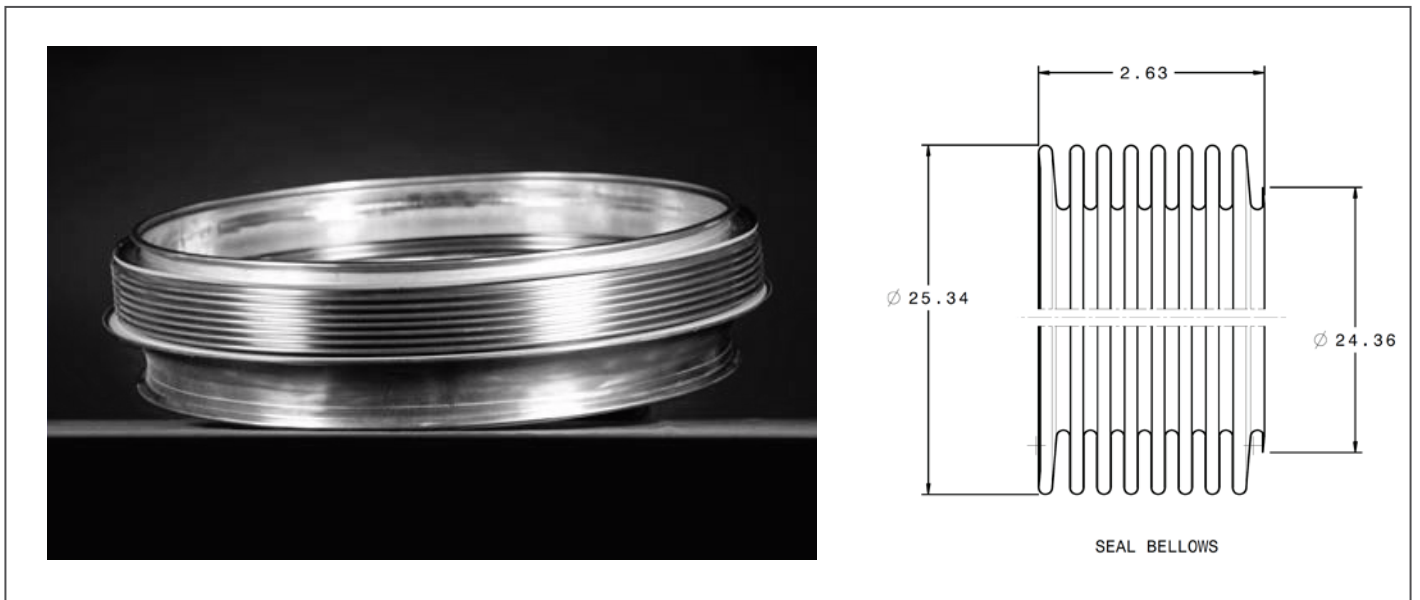
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**Get in touch**

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## BELLOWS

AMETEK FMH manufactures a wide range of custom-designed bellows for use in the high-temperature, high-pressure, and high-vibration transfer of air and fluids. Bellows are formed from tubes manufactured to radiographic standards and then incorporated into braided metallic hose assemblies, flexible (ball and gimbal style) joints, in tube and duct assemblies, or are used in a variety of direct applications. Materials used include: Stainless Steel, Inconel, Titanium and Aluminum. Sizes range from 1/4" to 36" ID. As an industry leader and innovator in bellows design and manufacture, our product is used in challenging applications throughout space, military and commercial aerospace.



### 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 1/4" – 36" ID (0.64 cm – 91.33 cm ID)
- May include braid wire or in combination with ducting where needed

## Features:

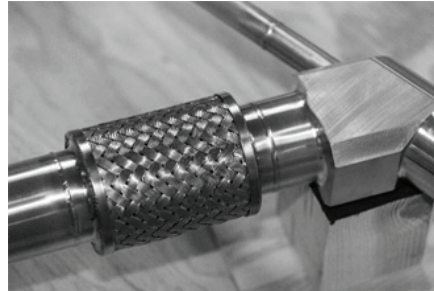
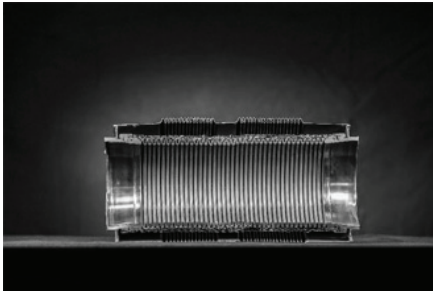
- Custom designed to applications, including qualification testing, or built to print

## Performance:

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



- 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