



Effox-Flextor Metallic Expansion Joints

2017

CECO
ENVIRONMENTAL

The world leader in the design and manufacturing of heavy-duty utility and industrial dampers and expansion joints for use in solid fuel combustion and exhaust systems.



Omega (Round) Metallic Bellows



- Pitch: **Adjustable**
- Shape: **Adjustable**
- Height: **Adjustable**





Accordion (V Shape) Bellows



- Pitch: **Not Adjustable**
- Shape: **Not Adjustable**
- Height: **Adjustable**



Doghouse Metallic Bellows



- Pitch: **Adjustable**
- Shape: **Adjustable**
- Height: **Adjustable**

Note: Single miter corners can be a weak point.



Is a Metallic Expansion Joint Right For Your Application?

Advantages:

- Extremely long lasting service life
- Superior corrosion resistance
- Allow for extremely high pressure applications
- Can be designed to carry duct loads
- Handles straight axial movements-
compression/elongation
- Excellent on steam service

Disadvantages:

- Cannot handle lateral, torsion, and radial growth movements well
- Often, due to movements, must utilize double tandem assemblies
- Alloy expense increases with temperatures and/or acid resistance
- Heavy, burdensome to install
- High spring rates and large face to face in most instances





Which Metallic Expansion Joint Right For Your Application?

- Accordion (V shape) and Doghouse designs have a central peak at the top of the convolution and must absorb all the movements. Box (square bellows are not made any longer and are being replaced)
- Omega configurations distribute the forces to deflect more evenly
- Omega designs take more movement and are long lasting because stresses are distributed evenly
- The omega configuration can be changed in bellows width and height to adapt better to the actual application and thermal movements
- All metallic piping expansion joints only employ omega bellows and other configurations are never seen or ever considered
- EJMA promotes Omega bellows for piping and ducting applications





Why choose Effox-Flextor?

- ISO-9001 2016 Certified Manufacturing
- 100% of our metal expansion joints are tested before leaving facility
- Custom manufacturing per each application
- Corten, Carbon Steel, and Stainless Steel materials all kept in stock for competitive pricing and quick turn-around
- Custom manufacturing per each application
- Certified Welders working on all applications





Questions?

Contact your local representative today!

<https://www.cecoenviro.com/effox-flextor-sales-representatives>

