

A photograph of a complex industrial system featuring numerous large, metallic pipes and expansion joints. The pipes are arranged in a dense, interconnected network, with some showing signs of wear and discoloration. The background is slightly blurred, emphasizing the foreground components. The overall color palette is dominated by metallic grays and blues.

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>

