

## Anti-vibration products

Field-proven designs to reduce vibration

# wood.

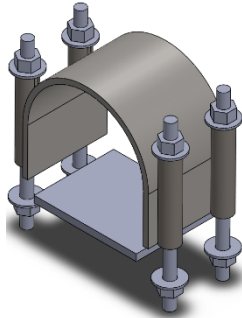
### Standard anti-vibration clamp

#### Applications

- Hold-down clamps for piping in vibration service
- Sizes from NPS 1" (DN 25) to NPS 24" (DN 600)
- Model number CL-1

#### Features

- **More bolt stretch** than conventional pipe clamps, which reduces chance of vibration loosening
- **Customized finishes** available: electroplated in nickel, zinc, or cadmium for sour gas, corrosive environments, or offshore exposure
- Can be lined using PTFE to allow **axial pipe movement due to thermal expansion**
- Hardware and installation instructions included
- **Carbon steel** construction



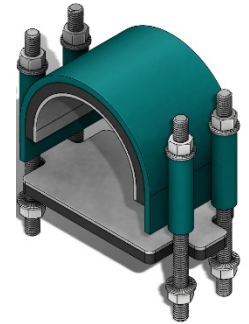
### DamperX™ clamp

#### Applications

- Hold-down clamps with damping for superior resonant vibration control. Sizes from NPS 1" (DN 25) to NPS 20" (DN 500)
- Model DCL-1-HD (standard), DCL-1-HT (high temperature) and DCL-1-HT-T (high temperature + thermal).

#### Features

- Same features as *Standard Vibration Clamp*, but with **additional resonant vibration damping** due to liner and wear pad made of viscoelastic material (*Dampion™ Black*)
- **Reduces vibration 40% to 90%** compared to regular clamps
- **Allows for axial pipe movement due to thermal expansion** when lined with PTFE (option)
- Standard temp. (DCL-1-HD): 1°F to 140°F (-17°C to 60°C)
- High temp. (DCL-1-HT): 15°F to 400°F (-9°C to 204°C)
- PTFE-lined (DCL-1-HT-T): 15°F to 400°F (-9°C to 204°C)



### DamperX™ vibration absorber

#### Applications

- Reduces vibration on piping, vessels, equipment, and small bore branch connections **when bracing is difficult**
- Most effective on **single-frequency vibrations** and **fixed speed machinery**
- Effective on vibrations from **10 Hz to 150 Hz** and equipment weights up to 9000 lb (4080 kg)

#### Features

- **Cost effective** compared to bracing and structural modifications
- **Field adjustable** if operating conditions change
- **No maintenance** required
- Can be installed **while equipment is operating**
- Constructed using coated steel, stainless steel, damping technology, and an aluminum cover. Hardware and installation instructions included
- Attached to piping, vessel, equipment or small-bore connection using band clamp (provided separately)



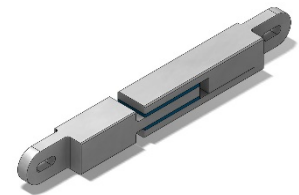
### DamperX™ brace

#### Applications

- **Reduces resonant vibration** on piping, vessels, equipment, and small-bore branch connections
- Works across a **wide frequency range** and thus ideal for **variable speed machinery**
- Effective on vibrations from **5 Hz to 150 Hz**, and equipment weights up to 9000 lb (4080 kg)

#### Features

- **Superior resonant vibration reduction** compared to bracing and supports that only add stiffness
- **Adds vibration damping** due to viscoelastic material (*Dampion™ Blue*)
- Constructed using aluminum or stainless steel (depending on application)
- Attached to piping, vessel, machinery, or structural beams using band clamp or lugs (provided separately)
- Most effective when used in conjunction with a design study and/or field audit



### Contact

For more information and to order, please contact our products team:

- Email [products.vdn@woodplc.com](mailto:products.vdn@woodplc.com)
- Call 1 800 561 2382 (North America) or +1 403 245 5666 (international, UTC -7:00, MST)