# Anti-vibration products

Field-proven designs to reduce vibration

## 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

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