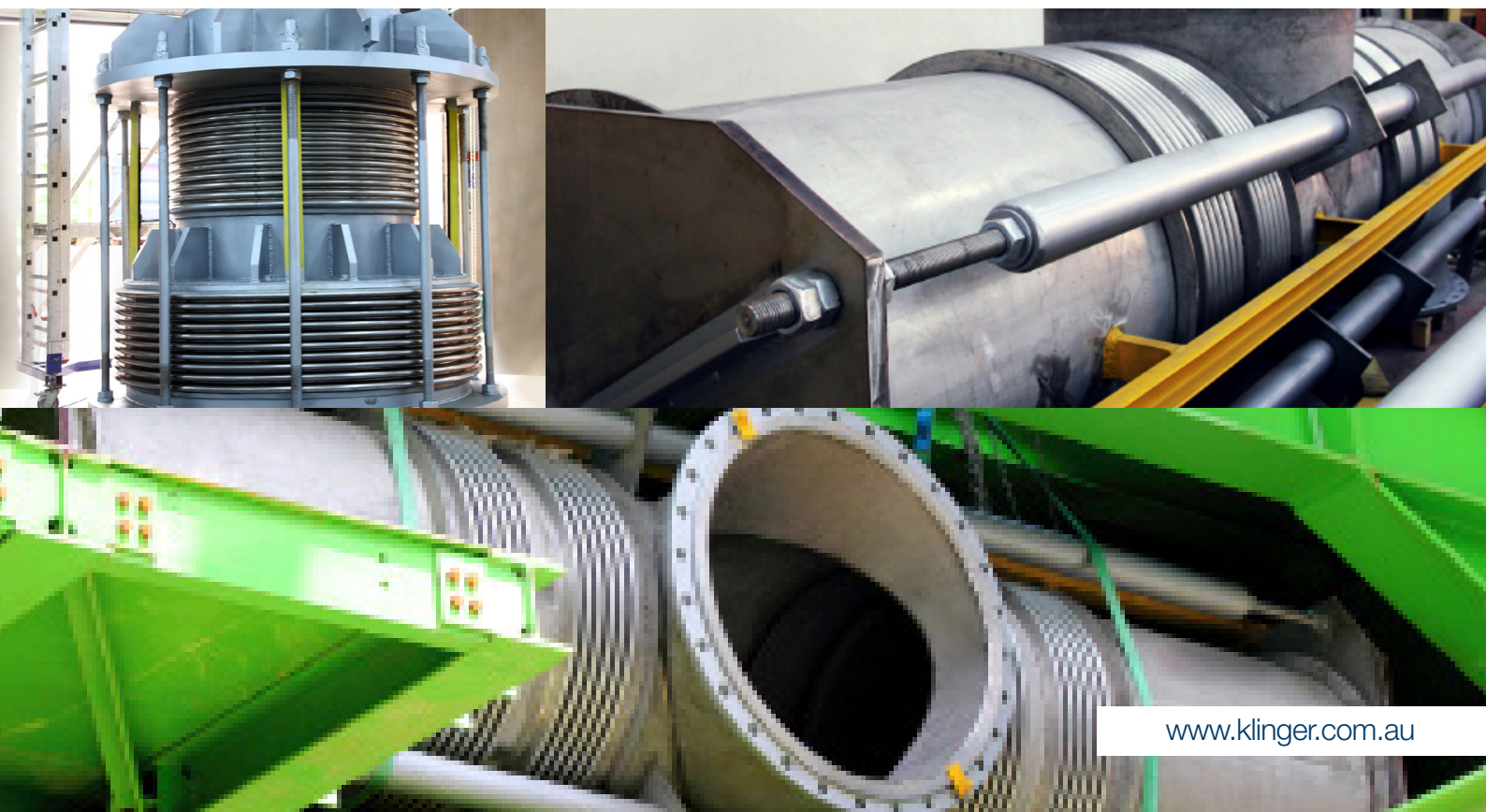




METAL EXPANSION JOINTS PRESSURE TESTING

best practice checklist



PRESSURE TESTING

An Expansion Joint must be pressure-tested to prove it can withstand its intended operating pressure and is free from leaks and defeats. The test process is straightforward, but the test must be carried out under controlled conditions with the correct procedure to make sure your Expansion Joints are leak-tight, built to last.

When designing the test, consider the following tips.

- ☐ Always follow the stated test specifications on the drawing and/or the tag plates on the Expansion joint.
- ☐ If the medium intended for pressure testing differs from the system design in weight and flow, consider if the system can accommodate the test without getting damaged.
- ☐ Never exceed more than 1.5 x design pressure without previous written confirmation from the manufacturer.
- ☐ Ensure all pressurised parts are accessible to be inspected properly.

To prepare for the test, you should always make sure that:

- ☐ The Expansion Joint has no signs of damage.
- ☐ All components of the pipe system are installed according to the installation instructions.
- ☐ The Expansion Joint is not used to compensate for fabrication errors.
- ☐ The flow direction of the Expansion Joint is correct.
- ☐ The bellows or other moving parts of the Expansion Joint are free from foreign objectives.
- ☐ The pipe system moves as expected.

Increase pressure slowly until the required pressure is reached. Then, thoroughly check for these signs of problems:

- ☐ Any sign of leakage.
- ☐ Pressure drops at the gauges.
- ☐ Any signs of instability or squirm at the bellows or components.
- ☐ Check anchors and their attachments for signs of distress.

After completing the test, act immediately to:

- » Remove any residual testing fluid likely to affect the system's performance.
- » Investigate and repair/replace any Expansion Joints performed less than satisfactory.
- » Repeat the test to ensure your Expansion Joints function properly.

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