

Company Overview

Australian Owned. Designed & Manufactured.



ABOUT US

Today, Aflex is recognised as Australia's leading manufacturer of Metal Expansion Joints and Bellows, servicing industries across Australia, New Zealand, and Asia.

Operating from our industry-leading manufacturing facility in Northern Sydney, our team of engineers, tradespeople, and technical specialists are driven by innovation, exceptional craftsmanship, and outstanding customer service. With extensive stock holdings, advanced forming machinery, and state-of-the-art welding technology, Aflex delivers customised solutions with rapid turnaround and uncompromising quality.



Established in 1998

Australian Owned & Manufacturing



Global Presence

Servicing Australia, NZ & Asia



Advanced Welding & Automation Systems



Customer Focused
Built on Trust and Partnership

OUR VISION



To lead the future of expansion joint manufacturing through excellence, innovation and advanced technology.

OUR MISSION



ENGINEER WITH PRECISION

Deliver custom metal bellows and expansion joint solutions built to the highest engineering and manufacturing standards.



DRIVE INNOVATION

Continuously invest in research, development, and proprietary software to improve manufacturing quality, traceability, and efficiency.



ENSURE QUALITY

Maintain industry-leading quality assurance systems accredited to ISO 9001, ensuring reliability across every stage of production.




BUILD TRUST


Provide exceptional customer service through transparency, technical expertise, and dependable delivery.

QUALITY.
ONSHORE.
GUARANTEED.

AUSTRALIAN MADE AND OWNED

AFLEX

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NEWSLETTER



Australian Metal Bellows Expansion Joint Manufacturers



Stainless Steel in Data Centres: Small Components, Big Impact

As Australia's digital infrastructure accelerates, so too does the demand for materials that can deliver performance, reliability and longevity at scale.

A great example is the role stainless steel is playing in the rapidly expanding data centre sector, where even the smallest components can have a big impact. ASSDA Member and Accredited Fabricator Aflex Pty Ltd recently delivered precision-engineered stainless steel expansion joints for a major hyperscale data centre in Melbourne.

Award-Winning Innovation

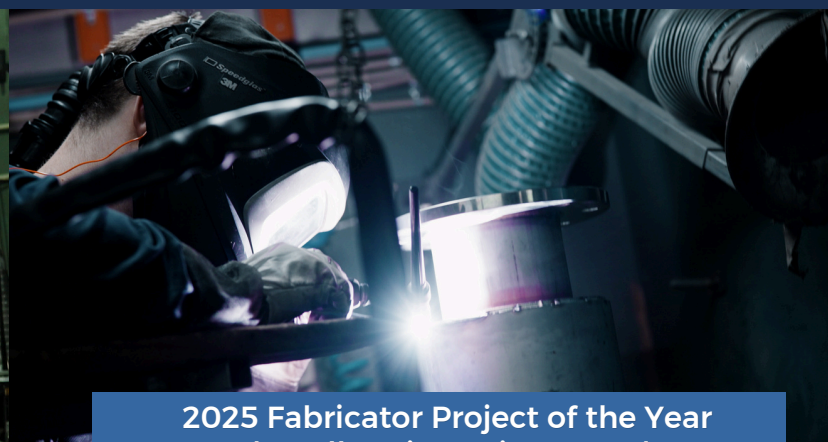
Designed for high-purity cooling systems, these components are critical to maintaining efficiency and operational reliability. By replacing traditional pipe loops with compact grade 316 stainless steel bellows, Aflex achieved reduced pumping energy, improved cooling efficiency, and space savings with simplified installation.

In environments where water purity exceeds drinking standards and system performance is non-negotiable, stainless steel stands out for its corrosion resistance, strength and flexibility under thermal stress, long service life with minimal maintenance, and sustainability through 100% recyclability.



Growth Market: Data Centres & Stainless Steel

With billions being invested into AI and cloud infrastructure, data centres are fast becoming one of Australia's most significant growth markets, and stainless steel is right at the heart of it. This award-winning project is a strong example of how local capability, innovation and the smart application of stainless steel are enabling the next generation of high-performance infrastructure.



2025 Fabricator Project of the Year (Small Project, Big Impact)

In recognition of its excellence in design, engineering and fabrication, Aflex was awarded the 2025 Australian Industry Stainless Steel Fabricator Project of the Year (Small Project, Big Impact). This highlights how local expertise and the smart application of stainless steel are shaping Australia's digital future.



Full MDR Traceability - Including Weld Consumables

In critical water infrastructure, the expansion joint itself is rarely the biggest risk.









The risk is often what isn't documented. When utilities review installed equipment years later, whether for maintenance planning, asset verification, or failure investigation, the first question becomes simple:

Can every part of the assembly be traced?

Across many water utilities today, documentation requirements are becoming more detailed. Traceability now often extends beyond base materials to include weld procedures, QA checks, and the filler materials used during fabrication.

At Aflex, every expansion joint can be supplied with a Manufacturer Data Report (MDR) that records the full manufacturing history of the assembly.

Typical MDR documentation includes:

-  Assembly data sheets
-  EJMA bellows calculations
-  Master drawings
-  Weld maps and WPS records
-  Material certificates
-  Hydrotest records
-  QA release documentation
-  Weld consumable traceability

Each assembly is tagged with a unique **ADSN** serial number, linking the full documentation package to that specific expansion joint within Aflex's digital QA system. This approach supports what many water utilities now require, clear lifecycle documentation and asset accountability for critical piping components.







Access our Aflex Sample MDR by scanning the QR code and learn more about us



Designed for Critical Infrastructure



Aflex expansion joints are engineered for long service life, reliability and compliance with global standards.

-  Proven performance
-  Quality you can trust
-  Documentation you can rely on
-  Built for the lifecycle of critical assets

We Support Your Project - From Design to Delivery



-  Consult
-  Design
-  Manufacture
-  Test & QA
-  Delivery



COMPANY CULTURE

PEOPLE. PURPOSE. PERFORMANCE.

Our culture is built on respect, teamwork, and a passion for excellence. Together, we shape the future of metal bellows and create lasting impact.

PEOPLE FIRST

We value each other, support one another, and celebrate our wins together.

OWNERSHIP & ACCOUNTABILITY

We take pride in our work, stand by our commitments, and deliver on promises.

QUALITY & INNOVATION

We never stop improving, solving problems, and raising the standard.

TEAMWORK & RESPECT

We collaborate openly, listen actively, and treat everyone with respect.

SAFETY & WELLBEING

We look out for each other and ensure everyone goes home safe, every day.



Behind Every Detail

Carefully Considered



Stephen

General Manager, Aflex

