



HDPE PIPING SYSTEMS FOR

RURAL & IRRIGATION SOLUTIONS



ACU-TECH.COM.AU



About Us

Acu-Tech® Piping Systems (Acu-Tech) specialises in manufacturing and supplying advanced polyethylene (HDPE) pipe systems tailored for efficient fluid or gas transfer and cable protection. Our state-of-the-art pipe systems are predominantly made from polyethylene (PE) thermoplastics, integrating the latest advancements in pipe technology. These systems are extensively utilised across various industries, including mining, resource extraction, civil engineering, plumbing, rural applications, irrigation, and industrial sectors.

Founded in 2000, Acu-Tech commenced its journey within three shipping containers, evolving into a thriving Australian company privately owned and operated. The company's founders and owners actively participate in day-to-day operations, fostering a culture of inspiration, strong leadership, flexible decision-making, and unwavering accountability throughout the organisation.

With our expanding operations nationwide, the dedicated Acu-Tech team is committed to providing the highest level of service and support throughout every stage of your project. Our team members bring decades of collective experience and embrace a positive “can-do” attitude, deeply committed to ensuring the sustained success of your business.

We Care.

Acu-Tech prioritises high quality customer service and support, focusing on always having a positive ‘can-do’ attitude.

Our Solutions.

With state-of-the-art manufacturing facilities and decades of combined experience, Acu-Tech prioritises continuous innovation and superior products for your HDPE piping needs. Offering turnkey solutions and project management services with a strong emphasis on customer support and success, we ensure tailored solutions that align perfectly with your requirements, whether it's fluid or gas transfer, cable protection, or any other application.

Your Success.

Your Success is our priority. Our durable and cost-effective products, combined with premium client service and support, demonstrate our unwavering commitment to ensuring the long-term success of your business. At Acu-Tech, we are more than just a supplier; we are your partner in success.



OUR VISION

To deliver world-class piping solutions throughout Australia, and support customers who are building Australia's reliable infrastructure for the future.

OUR MISSION

To assist our customers to deliver successful projects through innovation, value, and reliability.

OUR VALUES



S

Safety



T

Trustworthy



R

Reliable



I

Innovative



V

Value



E

Energy

Safety

We promote wellbeing first – by following our health and safety practices and speaking up immediately if something seems unsafe.

Trustworthy

We move fast with a high level of trust. We honour our commitments to our customers, team, and community.

Reliable

We have grit, perseverance, and bravery to overcome obstacles, and do what we say we will.

Innovative

We bravely challenge, explore, and implement, effective and improved ways to deliver the best solution.

Value

We are humble, hungry, smart and believe that our team is our greatest asset - every role and every person with great attitude brings value.

Energy

We are hungry, driven by fearless energy 'hustle muscle' to achieve exceptional outcomes by motivating ourselves and those around us to give our best.



Quality Assurance



ISO 9001: DELIVERING EXCELLENCE

At Acu-Tech Piping Systems, we go above and beyond to ensure exceptional quality, epitomised by our ISO 9001 certification - a symbol of excellence in quality assurance.

Our ISO 9001 certification reflects our unwavering commitment to delivering top-tier products and services, while continually refining our processes.

- ✓ **Elevating Product Excellence**
- ✓ **Prioritising Customer Satisfaction**
- ✓ **Streamlining Efficiency and Enhancing Processes**
- ✓ **Mitigating Risk**
- ✓ **Achieving Global Recognition**

In summary, Acu-Tech Piping Systems' ISO 9001 certification is not just a label; it signifies our commitment to providing excellence in quality assurance, ensuring our customers receive the best products and services available.



What sets us apart?

Consistent reliability: We consistently provide the ideal solution at the most cost-effective value.

Client-focused approach: We actively listen and collaborate closely with our clients to grasp the challenges they face.

Tailored solutions: Leveraging our materials, technology, training, and installation methods, we help determine and implement the right solutions for our clients.

Problem-solving expertise: Leveraging our vast knowledge and experience, we address challenges and deliver effective solutions.

Industry-specific delivery: We excel in providing bespoke pipeline solutions specifically tailored to the distinctive requirements of the industries we serve.

Acu-Rural

Red Line Pipe

A sought after product in the agricultural and farming industry, Acu-Rural high-quality pipe is manufactured in Australia to Australian standards. Its high resistance to impact and weathering makes Acu-Rural HDPE pipe ideal for the most demanding applications, as it will remain robust even in harsh environments and guaranteed to last a long lifespan due to its high impact strength and UV resistance.

Acu-Rural poly pipe are supplied in coils in imperial sizes to suit the industry standard requirements and existing pipelines.

- Lightweight coils for fast installation with minimal joints.
- Compatible with rural compression fittings.
- All sizes rated to 1000 kPa (at 20°C), PN 10 (SDR 17).
- Bright red color striping for easy identification.
- Co-extruded outer layer for added durability.
- Manufactured in Australia to AS/NZS 4130 standards for 'Polyethylene (PE) pipes for pressure applications' and AS/NZS 4129 standards for 'Fittings for polyethylene (PE) pipes for pressure applications'.

CODE	SIZE (INCH)	COIL LENGTH (M)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	COIL DIMENSIONS (MM)			WEIGHT (KG)
					OD	ID	WIDTH	
RRS02517200	1 inch	200*	1.8	28.9	1590	1280	260	30.4 (ea)
RRS03217150	1 1/4 inch	150*	2.2	36.0	1650	1325	285	35.3 (ea)
RRS04017150	1 1/2 inch	150*	2.6	43.2	1855	1580	300	49.8 (ea)
RRS04017300	1 1/2 inch	300	2.6	43.2	1540	865	430	99.6
RRS05017100	2 inch	100*	3.4	57.6	2010	1600	335	58.2 (ea)
RRS05017200	2 inch	200	3.4	57.6	2110	1600	370	116.5

Dimensions are nominal only.

* Selected coils are supplied as 'nested' and must be ordered in multiples of 2. One coil will be strapped inside the other.

Acu-Rural

Green Line Pipe

Suitable for basic rural applications, particularly in agriculture and farming for irrigation or stock watering, our green line poly pipe is a light weight and easy to handle product that can be used at pressures up to 800kPa (PN 8).

These lightweight coils provide a flexible and easy installation solution that is corrosion and weathering resistant.

- Acu-Rural Green compatible with various rural compression fittings for a comprehensive piping system.
- Pressure rating of PN8, capable of withstanding a maximum pressure of 800 kilopascals (kPa).
- Bright green color striping for easy identification.
- Co-extruded outer layer for enhanced durability.

CODE	SIZE (INCH)	COIL LENGTH (M)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	COIL DIMENSIONS (MM)			WEIGHT (KG)
					OD	ID	WIDTH	
RGS02021200	¾ inch (19)	200	1.4	21.6	950	600	250	16.9
RGS02521200	1 inch (25)	200	1.5	27.9	1180	730	240	23.9
RGS03221150	1 1/4 inch (32)	150	1.9	35	1380	1000	285	28.6
RGS04021150	1 1/2 inch (40)	150	2.2	42	1580	1100	320	31.3
RGS05021100	2 inch (50)	100	3	56.2	1870	1460	330	48.4

Dimensions are nominal only.

Acu-Water

Blue Line Pipe

Used for potable water, Acu-Tech's range of metric blue line poly pipe is suitable for pressurised systems when installed according to AS 3500.1:2003 'Water Services' and is Watermark certified. With a minimum design life of 50 years, it is manufactured from food grade polyethylene material and does not rust, rot, pit or corrode.

Acu-Water HDPE pipe is extremely tough and flexible, and can be bent to a radius 25 times the nominal pipe diameter (SDR 11 and SDR 17 $\geq 20^{\circ}\text{C}$). This flexibility reduces the need for fittings, and therefore reduces potential leak points. Acu-Water suits metric compression fittings, and can also be welded with electrofusion fittings or butt welding.

- Available in diameters of 20mm-1200mm.
- Pipe lengths and coils come in 6 and 12 meter options.

- Custom lengths up to 21 meters available upon request.
- Pressure ratings include PN 12.5 (1250 kPa) or PN 16 (1600 kPa) at 20°C , with a safety factor of 1.25 applied.
- Additional pressure ratings are also available.
- Bright blue color striping for easy identification.
- Co-extruded outer layer enhances durability.
- Manufactured in Australia to AS/NZS 4130 standards for 'Polyethylene (PE) pipes for pressure applications' and AS/NZS 4129 standards for 'Fittings for polyethylene (PE) pipes for pressure applications'.

SIZE	PN 10 / SDR 17	PN 12.5 / SDR 13.6	PN 16 / SDR 11	WEIGHT (KG)
20mm	-	50m & 200m Coils	50m & 200m Coils	0.1 kg/m
25mm	-	50m & 200m Coils	50m & 200m Coils	0.2 kg/m
32mm	-	50m & 200m Coils	50m & 200m Coils	0.3 kg/m
40mm	-	50m & 150m Coils	50m & 200m Coils	0.4 kg/m
50mm	100m Coil	50m & 150m Coils	50m & 100m Coils	0.7 kg/m
63mm	100m Coil	100m Coil	100m Coil	1 kg/m
75mm	100m Coil	100m Coil	100m Coil	1.25 kg/m
90mm	100m Coil	100m Coil	100m Coil	1.5 kg/m
110mm	100m Coil	100m Coil	100m Coil	2.7 kg/m

Dimensions are nominal only.

Acu-Therm

COEX - White Red Line Pipe

The ideal solution for exposed above-ground applications, Acu-Rural White is made from the same high quality HDPE material as the Acu-Rural, with more than 95% of the pipe being made from standard black PE material but with a white co-extruded coating.

The white co-extruded coating reduces the solar heating of the pipe by 50%, as it reflects the sunlight which reduces the amount of absorbed heat. This results in the temperature of the pipe only reaching slightly above ambient (air) temperature, which makes it ideal and cost-effective for above-ground applications, pipe water or other fluids, especially temporary water supply for animals or irrigation.

- High impact strength and UV resistance ensure a long lifespan.
- All sizes rated to 1000 kPa (at 20°C), PN 10 (SDR 17).
- White jacket exterior with red color striping for easy identification.
- Co-extruded outer layer enhances durability.
- Manufactured in Australia to AS/NZS 4130 standards for 'Polyethylene (PE) pipes for pressure applications' and AS/NZS 4129 standards for 'Fittings for polyethylene (PE) pipes for pressure applications'.

CODE	SIZE (INCH)	COIL LENGTH (M)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	COIL DIMENSIONS (MM)			WEIGHT (KG)
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RWR03217150	1 1/4 inch	150*	2.2	36.0	1650	1325	285	35.3 (ea)
RWR04017150	1 1/2 inch	150*	2.6	43.2	1855	1580	300	49.8 (ea)
RWR04017300	1 1/2 inch	300	2.6	43.2	1540	865	430	99.6
RWR05017100	2 inch	100*	3.4	57.6	2010	1600	335	58.2 (ea)
RWR05017200	2 inch	200	3.4	57.6	2110	1600	370	116.5

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One coil will be strapped inside the other.

Fabrication Services



Our fully qualified ACU-FAB team has decades of combined experience, we can fabricate almost anything from poly pipe and sheet.

We work in partnership with our clients to provide bespoke, pre-fabricated solutions and can provide a diverse range of products including custom degree bends, assemblies, spool packages, tank fabrication and strainers, manufactured in our 6000m² fully equipped fabrication facility.

We pride ourselves in working to the highest possible standards, in accordance with AS/NZS 4131, AS/NZS 4130 and AS/NZS 4129.

Equipment Hire & Servicing

Acu-Tech hires out welding equipment and provides service and calibration for welders.

Our hire division has a full range of butt welders, extrusion welders and electrofusion welders that can weld pipe diameters from 20mm up to 1000mm. This includes a wide variety of electrofusion equipment, which can be useful if your team is trained to use a particular model.

If you are welding on a site without power supply, we also provide portable generators, designed to be used with poly welding equipment.

New equipment is available for sale if you prefer to invest in equipment upfront.





Transport & Warehouse Logistics

At Acu-Tech we recognise that our customers need the whole package, not just pipe and fittings, but also personal service, technical support, and on-time deliveries.

That is why we offer delivery using our own transport fleet that goes the distance to deliver bigger and better solutions.

Our transport team deliver far and wide within Western Australia, ensuring prompt deliveries and efficient unloading.

With our Overhead Permit and Main Roads Accreditation, we can deliver your goods safely and on-time.

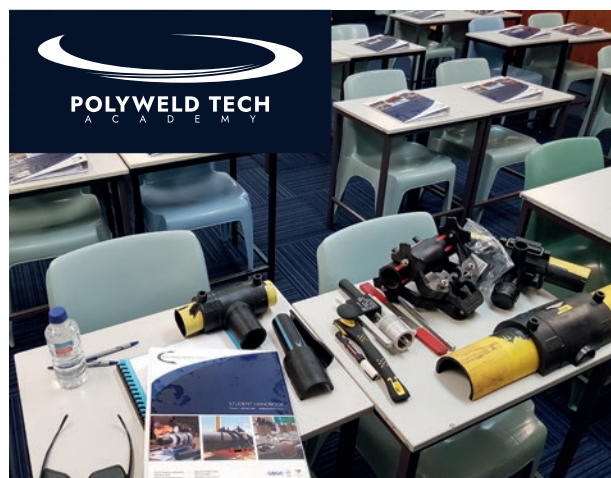
We hold large stocks in our warehouse, providing you with consistent product availability and reliving the stress of time-constrained projects.

Training & Testing Facility

Let Polyweld Tech Academy (PWT) assist with your organisation's polyethylene welding practices.

PWT is equipped with accredited NATA Laboratory testing facilities, specialising in tensile testing of butt welds and peel decohesion of electrofusion welds, along with a complete range of QA/QC inspection services.

PWT is a nationally accredited training organisation, offering specialized courses in HDPE butt welding (PMBWELD301E), electrofusion welding (PMBWELD302E) and extrusion welding (PMBWELD309E) techniques. Two-year reaccreditation courses are also available.



For more information and course enrolments: **1300 36 7659 (GO POLY)**
info@polyweldtech.com.au | www.polyweldtech.com.au



Rural Compression Fittings



Acu-Tech Piping Systems' range of HDPE rural compression fittings are designed for connecting imperial-size polyethylene pipes with an outside diameter from ¾" to 2", although adaptors to metric pipe sizes are readily available.

- Compatible with PELD, PEHD, PE40, PE80, and PE100 pipes complying with AS/NZS 4130 Series 1.
- Used for conveying irrigation or drinking water and fluids at low pressures.
- Rural compression fittings offer outstanding physical and performance benefits.
- Strong, lightweight, and reduce the amount of material used, serving as a greener alternative to metal pipe fittings.

- Designed specifically for the Australian outback, resistant to etching by numerous chemical substances, and to UV rays.
- HDPE compression fittings made of high-performance thermoplastic materials, providing long service life and resistance to corrosion.
- Designed for jointing, reduction, and repair, featuring distinctive longer red barbs for reliable pipe joins, and hand-tightened fittings.
- Sourced from leading manufacturers, ensuring quality and performance.

Acu-Tech Piping Systems offer an extensive range of rural compression fittings to meet varying requirements across different sectors.

Couplings (Pipe-to-Pipe Joiners)	Tee with Male or Female BSP Threaded Outlet
90° and 45° Elbows Joiners	Reducing Tee & Equal Tee Fittings
Compression Reducer Fittings	Elbow with Male or Female End
Threaded Fittings	Flanged Ends and End Caps
Adaptor Fittings	Male & Female Adaptors
Clamp Saddles – PN10 & PN16	Imperial to Metric Conversion Kits
Tapping Saddles	Hand Tools & Equipment, including Tighteners

Our Capabilities

Technical Support:

We provide technical support for designers, engineers, and installers.

Training:

Through our training partner we can offer our clients the ability to train staff with nationally accredited polyethylene plastic welding courses.

QA/QC:

We are also qualified to provide Quality Assurance and Quality Control documentation.

Testing:

We have a fully accredited in-house NATA testing facility to provide destructive and pressure testing as per project requirements.

Equipment Hire, Sales, and Servicing:

Acu-Tech offers welding equipment available for hire or sale and providing servicing and collaboration for welders.

Transport:

Products are delivered using our own fleet of hiab of trucks. By not using an external transport provider we can ensure that the product is delivered directly to site in a safe and timely manner.

**National Manufacturer of
HDPE piping systems**





The HDPE Pipe Systems Specialists



Contact us

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WE CARE. OUR SOLUTIONS. YOUR SUCCESS.

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