



COMPANY INTRODUCTION

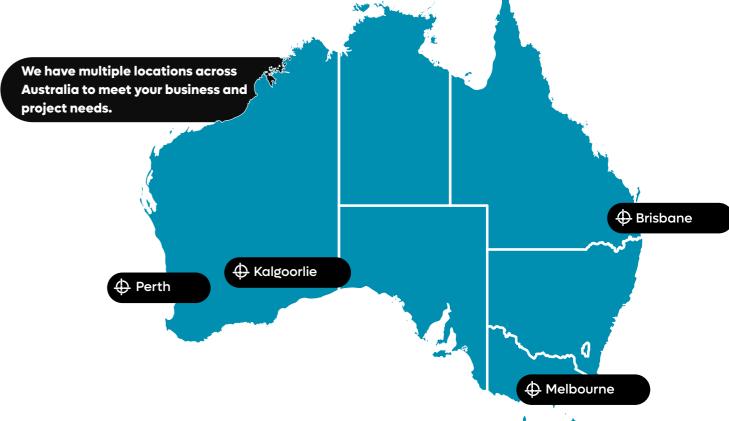
Introduction

cu-Tech Pty Ltd joined forces with JAG Poly, a distinguished name renowned for its excellence in manufacturing high-density polyethylene (HDPE) piping systems

This merger reflects our steadfast commitment to delivering reliable, durable, and sustainable piping solutions that align seamlessly with our core values. The collaboration is set to fortify our market presence across Perth, Melbourne, Brisbane, and Australia as a whole, enhancing our ability to cater to diverse industries, including mining, infrastructure, agriculture, and water utilities.

Our clients can look forward to an extended product portfolio that continues to meet the high standards of quality and exceptional customer service they have come to expect. The synergy between Acu-Tech and JAG Poly is poised to drive innovation in the polyethylene piping industry, fostering a commitment to excellence.

As we embark on this exciting journey together, the teams at Acu-Tech and JAG Poly are confident that this collaboration will not only reinforce our positions as industry leaders but also bring added value to our existing and new clients. Together, we are setting new standards for quality in the poly-pipe sector.





About JAG POLY

AG Poly is a leading provider of innovative polyethylene fabrication solutions, specialising in a wide range of products designed to meet the diverse needs of industries worldwide.

With a commitment to quality, sustainability, and customer satisfaction, JAG Poly has established itself as a trusted name in the polyethylene fabrication industry.

From flexible packaging solutions to robust industrial applications, JAG Poly offers a comprehensive range of polyethylene products, including:

OUR MISSION

Our mission is to revolutionise the polyethylene industry through cuttingedge technology, sustainable practices, and unwavering commitment to customer satisfaction. We aim to provide superior polyethylene solutions that enhance efficiency, durability, responsibility. environmental

pecialty Polyethylene:

Customised polyethylene solutions tailored to unique applications, providing unparalleled performance and reliability.

ndustrial Polyethylene:

High-performance polyethylene engineered to withstand the toughest industrial environments while maximising efficiency and safety.

Our Commitment to Excellence





We pride ourselves on a foundation of trust, built over years of combined team experience. Our industry-leading experts, with the direct involvement of our company's Directors, ensure swift, effective decision-making to address and meet your needs promptly. Our extensive portfolio, featuring numerous completed projects, stands testament to our capability and reliability, with references available to vouch for our excellence.

We place immense value on confidence, working closely with each client to deeply understand their business, meet their specific needs, and prioritise their goals. Our unmatched proficiency in delivering precisely as promised, on schedule, and with comprehensive documentation stems from our role as the manufacturer, allowing us total quality control from raw materials to the final delivery.

Our technical expertise and support services are unparalleled, designed to assist designers, engineers, and installers.

- → In collaboration with a Registered Training Organisation, we offer specialised welding training, enhancing the skills and knowledge within the industry.
- → Our NATA accredited laboratory is equipped to perform destructive joint and material testing, complemented by on-site Quality Assurance (QA) services, ensuring the highest standards of quality and reliability.

Quality assurance is at the core of our operations.

- We are certified in Quality Management Systems, including ISO 9001 and ISO/TS 29001, catering specifically to the demanding requirements of the petroleum, petrochemical, and natural gas industries.
- Our products, including polyethylene (PE) pipes and fittings for pressure applications, are certified to meet and exceed the stringent AS/NZS 4130:2018 and AS/NZS 4129:202 standards, respectively. This commitment to quality ensures that we provide only the best, most reliable products to our clients.





PRODUCT INTRODUCTION

Product Overview

e lead the way in designing and manufacturing custom fabrications from polyethylene with a relentless focus on innovation, quality, and sustainability.

Our comprehensive portfolio encompasses:

uality Craftsmanship: Quality is at the core of everything we do at Jag Poly. From the initial design phase to the final production, we adhere to rigorous quality standards to ensure that every fabrication meets or exceeds our customers' expectations. Our commitment to quality craftsmanship is evident in the durability, reliability, and performance of our products.

ustainable Solutions: As stewards of the environment, Jag Poly is dedicated to sustainability in all aspects of our operations. We utilise eco-friendly manufacturing processes and prioritise the use of recycled materials whenever possible. By choosing Jag Poly's custom fabrications, clients can reduce their environmental footprint without compromising on quality or performance.

omprehensive Product Range: Our extensive product range encompasses a wide variety of custom fabrications, including but not limited to:

- Polyethylene tanks and containers
- Custom-designed components for industrial machinery
- Protective barriers and enclosures
- Agricultural and horticultural equipment
- → Environmental containment solutions

ollaborative Partnership: At Jag Poly, we view our clients as partners in success. We work closely with each client to understand their specific needs and objectives, providing personalised solutions that deliver tangible results. Our collaborative approach ensures that every project is executed seamlessly, from concept to

With a steadfast commitment to innovation, quality, and sustainability, Jag Poly is the premier choice for custom fabrications made from polyethylene. Whether you require a bespoke solution for a specific application or are seeking to enhance the performance of your existing products, we have the expertise and resources to meet your needs. Partner with Jag Poly and experience the difference that our custom fabrications can make for your business.



POLY FLOATS & PONTOONS

Introducing JAG Poly Floats

Experience unparalleled safety and versatility with JAG Poly Floats, featuring a revolutionary 'closed cell' foam core. Our innovative design, coupled with corrugated float modules, enables our floats to support a wide range of weights, from several kilograms to several tonnes. This flexibility opens up a myriad of design applications, ensuring suitability for diverse projects.

Explore the array of versions available and discover the perfect solution for your needs!

Single Floats

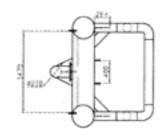
Key features and benefits:

- → Our Single Floats mark the inception of our pioneering journey.
- → With a straightforward design, optional foam core, and equipped with lugs, these floats are meticulously crafted to fulfill their intended purpose.
- → Access our comprehensive data sheet to delve into the specifications tailored to meet your specific needs.



| Floatation @ 50% draft | | | | | | | | |
|------------------------|----------------------------------|--------|----------|--|--|--|--|--|
| Code | Diam | Length | Capacity | | | | | |
| PFS16015 | 160mm | 1.5mtr | 10kg | | | | | |
| PFS20010 | 200mm | 1.0mtr | 11kg | | | | | |
| PFS20015 | 200mm | 1.5mtr | 17kg | | | | | |
| PFS20020 | 200mm | 2.0mtr | 22kg | | | | | |
| PFS20025 | P200mm | 2.5mtr | 28kg | | | | | |
| PFS31510 | 315mm | 1.0mtr | 32kg | | | | | |
| PFS31515 | 315mm | 1.5mtr | 48kg | | | | | |
| PFS31520 | 315mm | 2.0mtr | 62kg | | | | | |
| PFS31525 | 315mm | 2.5mtr | 77kg | | | | | |
| PFS31530 | 315mm | 3.0mtr | 92kg | | | | | |
| C | Other sizes available on request | | | | | | | |

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| | | |



Double Floats

Key features and benefits:

- → Elevate your aquatic projects with our Double Floats, meticulously engineered with a central rigid platform for heightened stability.
- → Experience unparalleled support and reliability as you embark on your ventures.



| | | Floatation @ 5 | 0% draft | |
|-----|-------|----------------|----------|----------|
| Co | de | Diam | Length | Capacity |
| PFD | 20015 | 200mm | 1.5mtr | 35kg |
| PFD | 20025 | 200mm | 2.5mtr | 60kg |
| PFD | 20030 | 200mm | 3.0mtr | 80kg |
| PFD | 31515 | 315mm | 1.5mtr | 100kg |
| PFD | 31520 | 315mm | 2.0mtr | 135kg |
| PFD | 31525 | 315mm | 2.5mtr | 165kg |
| PFD | 31530 | 315mm | 3.0mtr | 200kg |
| PFD | 31535 | 315mm | 3.5mtr | 230kg |



POLY FLOATS & PONTOONS

Pipeline floats

Kev features and benefits:

- → Our Pipeline Floats offer a simple yet ingenious solution: instead of floating the pipe, we prevent it from sinking.
- → Designed to support the pipe just beneath the surface, even when used alongside power cables, our floats ensure uninterrupted functionality and protection for your infrastructure.



Float Modules

Key features and benefits:

- → Experience our latest innovation, Float Modules, offering an extensive selection of sizes and buoyancies to suit your specific needs.
- → These modules can be seamlessly rafted together at customisable widths, providing exceptional stability for various applications. What's more, they can be easily disassembled for convenient transport, ensuring flexibility and efficiency in your projects.



Single Float with Shroud Hanger Fin

Key features and benefits:

- → Cost-Effective Solution for Varied Applications
- → Benefit from the remarkable rigidity and size range of our corrugated pipe floats with the Single Float featuring a Shroud Hanger Fin.
- → Designed to optimise cost efficiency, these single units offer an impressive alternative to doubles, particularly in budget-sensitive projects. Ranging from 15kg to 1500kg, our floats ensure versatility and reliability across a wide spectrum of applications.



Wheeled Floats

Key features and benefits:

- → For those meticulous about dam liners, our Wheeled Floats offer a paramount solution: roll,
- → Engineered with precision in mind, these floats ensure gentle and controlled movement, minimising the risk of damage to your valuable dam liners. Trust in our wheeled floats for seamless transportation without compromising on the integrity of your infrastructure.



PROTECT DAM LINERS:

Utilise Poly Rails for Dragging Floats to Shore and Keep Intakes Clear of Mud

Foot Valve Floats

Key features and benefits:

- → Customization: Tailored design ensures suitability for diverse applications.
- → Versatility: Adaptable to various water bodies and environments.
- → Enhanced Efficiency: Optimises water intake by preventing debris and sediment infiltration.
- → Durability: Constructed with high-quality materials for long-lasting performance.
- → Easy Installation: Simplifies setup and integration into existing systems.
- → Maintenance-Friendly: Facilitates access for inspection and upkeep as needed.



Key features and benefits:

- Enhanced Stability: Increased buoyancy provides reliable support.
- → Pump Protection: Shroud safeguards against damage from debris and impacts.
- → Extended Lifespan: Reduces maintenance costs by prolonging pump life.
- → Versatile: Suitable for various water bodies and environments.
- Easy Maintenance: Facilitates access for inspection and repairs.
- Efficient Performance: Ensures optimal pump operation.





POLY FLOATS & PONTOONS

Single Float & Submersible Pump Cooling Shroud

Key features and benefits:

- → **Efficient Cooling**: Shroud ensures pump performance.
- → **Mud Foot Protection:** Prevents damage in muddy conditions.
- → **Easy Installation:** Quick setup for various environments.
- → **Versatile:** Suitable for ponds to industrial use.
- **Durable:** Withstands harsh conditions.
- Maintenance-Friendly: Easy access for upkeep.



Surface Mounted Pump Pontoons

Key features and benefits:

- → **Efficient Pump Operation:** Ensures optimal performance of surface-mounted pumps.
- → **Stability:** Provides a stable platform for pump installation on water surfaces.
- **Easy Installation:** Simplifies setup for quick deployment.
- → **Versatility:** Suitable for various water bodies and applications.
- → **Durable Construction:** Built to withstand outdoor conditions for long-term reliability.
- → Low Maintenance: Requires minimal upkeep for continued operation.



"Stand-Off" Floats

Key features and benefits:

- Enhanced Elevation: Keeps equipment elevated above water surfaces.
- Stability: Provides a stable platform for equipment mounting.
- Versatility: Suitable for diverse applications and environments.
- Easy Installation: Simplifies setup for quick deployment.
- Durability: Built to withstand outdoor conditions for longterm use.
- → **Efficient Design:** Supports efficient equipment operation with minimal maintenance



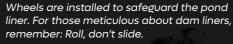
Floating Intake Strainer

Key features and benefits:

- → Efficient Water Intake: Filters debris from water sources without clogging.
- → **Adaptability:** Suitable for various water bodies and applications.
- → **Easy Deployment:** Simplifies installation and relocation as needed.
- **Durability:** Designed to withstand water conditions for long-lasting use.
- → Low Maintenance: Requires minimal upkeep for continued effectiveness.
- → Versatility: Compatible with a wide range of pumps and water systems.









Prepared for transportation.



JAGPOLY.COM.AU 15



SUBMERSIBLE PUMP COOLING SHROUDS

Cubmersible Pump Cooling Shrouds, also referred To as pump shrouds, pump sleeves, flow inducer sleeves, or submersible pump flow sleeves, are essential for borehole-style electric submersible pump motors installed in open bodies of water such as dams or rivers.

These shrouds play a critical role in enhancing motor cooling, thereby extending the overall lifespan of the

Poly pump shrouds are meticulously crafted to envelop both the pump and motor, ensuring that water flows closely past the motor for effective cooling.

By maintaining proper cooling conditions, these shrouds safeguard the pump motor against damage, guaranteeing optimal performance.

Each shroud is custom-designed to meet specific motor cooling requirements, adhering to manufacturers' recommendations for flow velocities, typically ranging from a minimum of 0.15 m/s to a maximum of 3.0 m/s.

To ensure optimal functionality, it's imperative to mount the shrouds clear of the well or dam floor. This prevents the accumulation of sludge or sand at the shroud entrance, which could compromise cooling performance.

Additionally, protective measures such as a 'MUD SLED' can be incorporated, along with strainers, even when suspended under a float, to further enhance durability and efficiency.

Advantages:



Enhanced Motor Lifespan: By facilitating adequate cooling of the pump motor, shrouds contribute to prolonging its operational life.



Protection Against Damage: Shrouds shield the pump motor from potential damage caused by overheating, ensuring consistent and reliable performance over time



Optimal Cooling Efficiency: These shrouds are designed to direct water flow closely past the motor, optimizing cooling efficiency and preventing overheating issues.



Customized Design: Each shroud is individually designed to match specific motor cooling specifications, ensuring precise fit and functionality.



Versatile Applications: Suitable for both horizontal and vertical installations, shrouds can be utilized in various settings where motor cooling may be insufficient, such as dams, rivers, or other open bodies of water.



Compatibility with **Protective** Accessories: Shrouds can be paired with additional protective accessories like 'MUD SLEDs' and strainers to further enhance durability and performance, even when suspended under a float.



Cost-Effective Solution: Investing in submersible pump cooling shrouds can potentially save costs associated with motor repairs or replacements due to overheating-related issues.

Standard submersible pump flow sleeves/shrouds are available with options for low flow or oversize screens, all equipped with motor centralisers. These units are suitable for vertical installation.

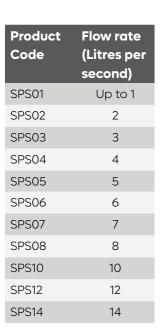
PUMP SHROUDS

Current Range By Flow Rate:

When inquiring about our submersible pump shrouds, we may request the following details to ensure the right fit for your needs:



- Pump duty point
- Pump and motor dimensions, particularly motor size
- Net weight
- Installation orientation: horizontal or vertical
- Discharge pipe connection type: flange or spigot
- Requirement for a float
- Need for mud sled or bottom protection
- Minimum pump submergence
- Requirement for discharge pipe and cable flotation
- → Installation environment (e.g., dam, river, irrigation channel, sump, pump well, etc.)



| Product Code | Flow rate (Litres per second) |
|-----------------|-------------------------------------|
| SPS16 | 16 |
| SPS18 | 18 |
| SPS20 | 20 |
| SPS22 | 22 |
| SPS24 | 24 |
| SPS26 | 26 |
| SPS28 | 28 |
| SPS30 | 30 |
| SPS35 | 35 |
| SPS40 | 40 |
| SPS45 | 45 |
| | |

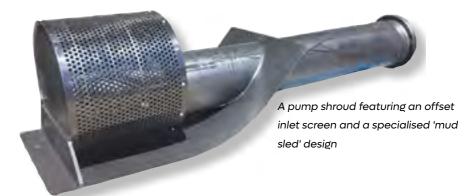
| 50 |
|-----|
| 55 |
| 60 |
| 70 |
| 80 |
| 90 |
| 100 |
| 110 |
| |



Pump shroud featuring a unique offset inlet screen and innovative 'mud sled'.



A straightforward float and pump shroud equipped with a mud sled for efficient performance





POLY FOOT VALVES

Features:







Electro-polished stainless steel hinge assembly for longevity



Draw-down inlet design for efficient fluid intake



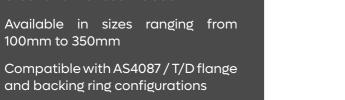
Incorporates anti-vortex vanes to prevent turbulence

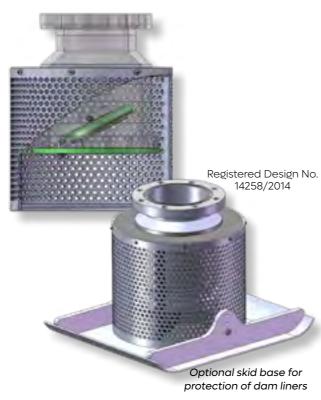


area for enhanced filtration

Offers 10 times the inlet open screen

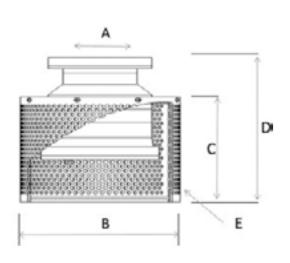






Dimension Sheet:

The innovative design of this new poly foot valve ensures a trouble-free service experience, boasting a large screen area to minimise trash buildup. With no welded metal parts to create corrosion points, it offers enhanced durability. The valve seat and flap are crafted from G10 high tensile strength resin material for reliable performance.



| Nom. Size | Screen Dia. | Screen Length | Overall Length | Screen Hole Size |
|--------------|----------------|------------------|-------------------|---------------------|
| Α | В | С | D | E |
| 80 | 360 | 245 | 415 | 13 |
| 100 | 360 | 245 | 415 | 13 |
| 125 | 410 | 370 | 510 | 13 |
| 150 | 480 | 370 | 490 | 13 |
| 200 | 630 | 370 | 540 | 13 |
| 250 | 630 | 495 | 620 | 13 or 20 |
| 300 | 795 | 590 | 740 | 20 |
| 350 | 795 | 750 | 950 | 20 |
| 400 | 950 | 750 | 1050 | 20 |
| 450 | 950 | 750 | 1050 | 20 |
| | | | | |



Explore our Foot Valve Range











PRE-PUMP SUCTION STRAINERS

Leaf and Lint Suction Strainers

Features:



Body constructed from tough HDPE material



New and improved stainless steel punched screen strainer basket with durable poly ends and high flow channel



Safe and easy-to-use toggle eye bolt lid



Custom inlet and outlet flanges sized to suit each installation



Optional view port available for added convenience



Available in sizes ranging from 15 to 150 litres per seconds.



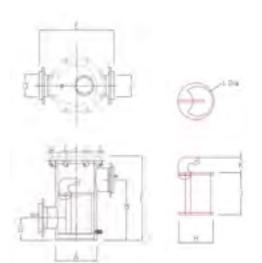
Features a new squat design for improved functionality

(Low Profile ONLY)



Registered Design No.

Low Profile Dimension Sheet:

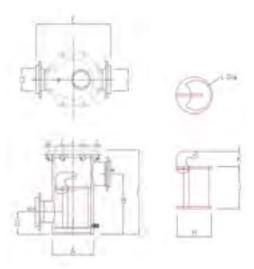


| Strainer | LLP15 | LLP30 | LLP50 | LLP75 | LLP100 | LLP150 |
|--------------------|-------|---------|------------|-------|--------|--------|
| Flow range (liters | up to | 15 to | 30 to | 50 to | 75 to | 100 to |
| per sec.) | 15 | 30 | 50 | 75 | 100 | 150 |
| | Во | dy Dime | ensions (r | mm) | | |
| А | 280 | 315 | 400 | 450 | 500 | 630 |
| В | 390 | 500 | 525 | 550 | 580 | 670 |
| C* | 100 | 150 | 200 | 250 | 250 | 300 |
| D* | 80 | 100 | 125 | 200 | 250 | 300 |
| E | 550 | 570 | 750 | 760 | 900 | 1000 |
| F | 600 | 760 | 820 | 900 | 880 | 1050 |
| G | 150 | 200 | 225 | 225 | 250 | 300 |
| | | | | | | |

Note* - Flange dimensions and drilling pattern to order. Specify height of outlet to suit pump connection.

| Strainer Dimension (mm) | | | | | | | |
|-------------------------|----------------|----------|-------------|-------------|-------------|---------|--|
| Н | 245 | 278 | 351 | 395 | 440 | 555 | |
| J | 270 | 340 | 340 | 340 | 340 | 430 | |
| K | 122.5 | 139 | 175.5 | 197.5 | 220 | 277.5 | |
| L | 205 | 235 | 300 | 345 | 395 | 510 | |
| 316 1.5mm Stai | nless steel pu | nched so | reen 4.76 | x 6.35 hole | s = 51% ope | en area | |

Standard Profile Dimension Sheet:



| Strainer | LLP15 | LLP30 | LLP50 | LLP75 | LLP100 | LLP150 |
|---------------------|-----------|---------|----------------------|-------|---------------|--------------|
| Flow range (liters | up to | 15 to | 30 to | 50 to | 75 to | 100 to |
| per sec.) | 15 | 30 | 50 | 75 | 100 | 150 |
| | Вс | dy Dime | ensions (| mm) | | |
| А | 280 | 315 | 400 | 450 | 500 | 630 |
| В | 390 | 650 | 675 | 705 | 730 | 780 |
| C* | 100 | 125 | 150 | 250 | 250 | 300 |
| D* | 80 | 100 | 125 | 200 | 250 | 300 |
| E | 550 | 570 | 750 | 760 | 900 | 1000 |
| F | 600 | 910 | 970 | 970 | 1020 | 1210 |
| G | 150 | 200 | 225 | 225 | 250 | 300 |
| Note* - Flange dime | nsions an | | attern to connection | | cify height o | of outlet to |
| | | | | | | |

| and the strip an | | | | | | | |
|--|-----------------|-----------|-------------|-------------|-------------|---------|--|
| Strainer Dimension (mm) | | | | | | | |
| Н | 245 | 278 | 351 | 395 | 440 | 555 | |
| J | 270 | 490 | 490 | 490 | 490 | 490 | |
| K | 122.5 | 139 | 175.5 | 197.5 | 220 | 277.5 | |
| L | 205 | 235 | 300 | 345 | 395 | 510 | |
| 316 1.5mm Sta | inless steel pu | unched so | reen 4.76 | x 6.35 hole | s = 51% ope | en area | |

FITTINGS

With a commitment to excellence, we offer a comprehensive range of fittings tailored to meet your specific needs.

From durable HDPE construction to innovative design features such as stainless steel punched screens and customisable flanges, our fittings ensure reliable performance and ease of use.

Whether you require fittings for irrigation, drainage, or industrial purposes, Jag Poly has you covered.

SHORT SPIGOT

- Bends Short Radius
- Drilled Flanges
- PE BSP Threaded Adaptors
- Reducers Concentric BW
- Reducers Eccentric BW
- → Shouldered Ends
- → Stub Flanges BW
- Tees Equal BW
- → Tees Reducing BW

LONG SPIGOT

- → Bends Long Spigot Multi Type
- → Elbow Moulded Long Spigot
- → End Caps Long Spigot
- → Reducers Concentric Long Spigot
- Stub Flanges Long Spigot
- → Tees Equal Long Spigot
- Tees Reducing Long Spigot



OTHER FITTINGS:

Backing Rings

Butterfly Valve Spacers

Electrofusion Couplings

Fabricated Fittings

The joint venture between JAG POLY and Acu-Tech Piping Systems marks a significant milestone in the poly pipe and fittings industry.

As an integral part of the Acu-tech organisation, JAG POLY now offers an extensive range of poly pipe and fittings, along with comprehensive system solutions that include pumps, filtration, valves, and installation services.

This collaboration combines JAG POLY's expertise in quality fittings with Acu-Tech's reputation for excellence and innovation.

Together, they provide customers with unparalleled access to top-tier products and support, ensuring seamless integration and superior performance across a wide range of applications.





Contact us on 1300 36 7659 or info@polyweldtech.com.au.

olyweld Tech Academy is your premier destination for mastering the art and science of polyethylene welding, more commonly known as poly welding.

As a trusted partner of Acu-Tech Piping Systems, we share a common goal: to empower professionals with the knowledge and skills necessary to excel in the rapidly evolving landscape of piping technology.

Our academy offers a comprehensive curriculum carefully crafted to empower participants with practical expertise in this specialised field. Our courses delve into essential techniques such as Butt Welding, **Electrofusion Welding, and Extrusion Techniques**, all tailored specifically for polyethylene materials.

With convenient locations in Perth, Brisbane, Adelaide, Melbourne & Victoria, as well as the flexibility to provide training at various locations across Australia, we ensure accessibility and thorough training experiences for our students. Additionally, we offer Refresher/Biennial Welder Assessments to help professionals stay updated with the latest advancements in poly welding practices.

Our NATA accredited testing facilities are dedicated to quality assurance tests relevant to poly welding, ensuring the highest standards are upheld in every aspect of this specialised discipline.

Embark on a rewarding journey in the world of poly welding with Polyweld Tech Academy, where we combine technical expertise, cutting-edge technology, and hands-on training to equip you for success in this vital and dynamic industry. Your future in poly welding starts here.

Polyweld Tech is a NATA accredited laboratory offering:

- Specialising in tensile testing for butt welds and peel decohesion for electrofusion welds, coupled with an extensive range of QA/QC tests.
- · Our advanced technology, combined with the expertise of our seasoned technicians, ensures precise and swift results.

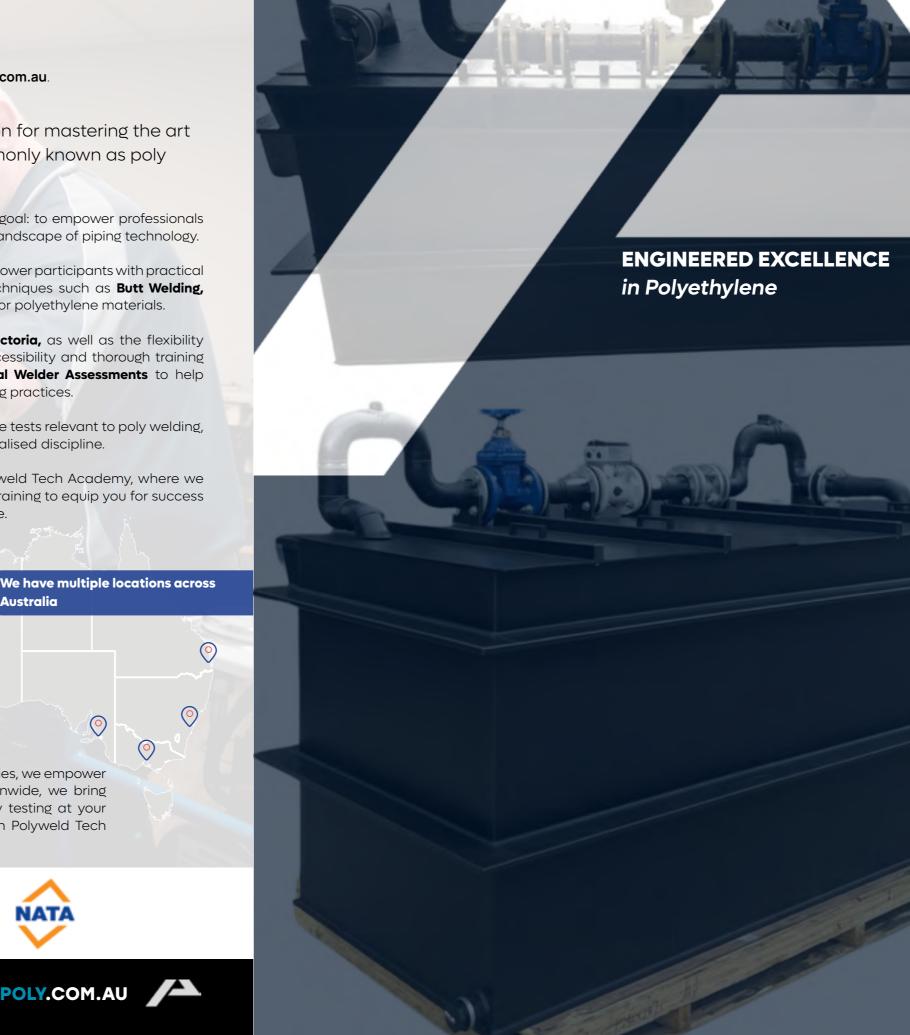
With our QA/QC quality inspections and NATA accredited testing facilities, we empower your company to uphold superior joint techniques. Operating nationwide, we bring our services to your doorstep, offering training, inspection, and poly testing at your organisation's convenience. Elevate your polyethylene practices with Polyweld Tech Academy, where excellence meets expertise.







Australia



PE Pipe Systems Specialists



Contact us

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