

# YOUR RELIABLE HDPE INDUSTRIAL PIPES PARTNER!

| Company Profile

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## Arrant Wise Pty Ltd

Arrant Wise Pty Ltd is a reputable company specializing in the supply, fabrication, and installation of HDPE pipes and fittings. Since our establishment in 2016, we have consistently delivered high-quality services to clients in various sectors, including mining, construction, irrigation, chemical, and gas industries. Our commitment to excellence is reflected in our impressive certifications, which include BEE level 1, CIDB 5ME, 5SO, ISO9001 for Quality Management, ISO14001 for Environmental Management, and ISO9001 for Occupational Health and Safety.

As a proud member of the Institute of Plumbing South Africa (IOPSA), we adhere to industry best practices and uphold the highest standards of professionalism. Currently, our operations extend across four provinces in South Africa, namely Limpopo, Mpumalanga, Gauteng, and North West.

At Arrant Wise Pty Ltd, we take pride in our industry expertise, customer-centric approach, and commitment to delivering innovative solutions to meet the evolving needs of our clients. Trust us for all your HDPE pipe and fitting requirements, and experience the difference that our reliable services can make for your projects.

## Some of our Clients



## Our Network

- Angola
- Zimbabwe
- Malawi
- Nigeria
- South Africa

## Sectors Serviced

01 Civil & Infrastructure

02 Irrigation

03 Mining & Industrial

04 Water & Sanitation





## What we do

Arrant Wise Pty Ltd is a supplier of a range of HDPE products for various applications. Our products range from 20mm Diameter to 1000mm Diameter with a pressure class of 04 to 34 (Varies for different sizes).

In addition to our wide range of pipes, we offer a diverse selection of fittings, including valves, molded fittings, and fabricated fittings, all designed to seamlessly complement our piping solutions. Notably, our expert on-site installation services further ensure the seamless integration and optimal performance of our products within your operations.



## HDPE pipes and fittings

High-Density Polyethylene (HDPE) pipes and fittings serve as indispensable components for the efficient and reliable transportation of water, slurry, and a variety of liquids within the rigorous environments of mining operations. Renowned for their exceptional chemical resistance, HDPE fittings offer a robust solution that ensures the safe conveyance of substances, thereby minimizing the risk of pipe damage or potential product contamination.

This superior resistance to corrosive substances underscores the durability and longevity of HDPE pipes and fittings, making them the ideal choice for maintaining the integrity of critical infrastructure in mining applications.



## Why choose HDPE Installation

In most cases, the installation of HDPE-lined pipes proves to be a more cost-effective and straightforward process compared to alternative components. HDPE boasts a significantly lighter weight than materials such as concrete and steel, resulting in reduced travel expenses and eliminating the need for heavy lifting equipment.

HDPE slip lining is typically supplied in extended coils, spools, or straight tubes, offering logistical advantages that can further reduce transportation costs by requiring fewer deliveries. The strategic delivery of HDPE on spools or coils not only streamlines the installation process but also minimizes logistical complexities, contributing to overall cost savings.

The installation of HDPE requires fewer personnel and less equipment compared to other pipe lining solutions, resulting in time and cost savings during the installation process. Due to the high flexibility of High-Density Polyethylene, it can be bent without the need for additional joints or connectors. This flexibility enables HDPE to be installed in unconventional locations outside of channels or in irregular layouts. The joints in HDPE pipes are typically thermally fused, ensuring robust connections that are as durable as the original pipe and effectively prevent leakage.

## Advantages of HDPE pipes

HDPE pipe offers several benefits over other drilling rigs such as

- Reduction Of Installation Costs
- Due To Its Flexible Shape, It Is Easy To Use On Slopes.
- Simple Joining Methods.
- Seismic Resistant
- Wrong Electrical Conductor.
- Low Conflict
- Ability To Relieve Water Shock
- Sun Resistance
- Non-Stick Surface.
- Compatible With Nature
- High Quality
- Does Not Leak Due To Its Seamless Nature.
- Economic. So Easily Affordable
- High Flow Rate Due To Smooth Interior
- Wide Temperature Range
- Do Not Wash
- Resistance To Ultraviolet Rays
- Amazing Strength (Over 50 Years)
- Resistant To Many Solvents
- Solid Material
- Low Maintenance Costs

# HDPE Pipe Lining

HDPE pipe lining is a flexible plastic lining made of high-density polyethylene (HDPE) that is used to protect pipes from corrosion and abrasion. HDPE pipe lining is often used to replace old concrete or steel pipes.

## About HDPE Pipe Lining

### Benefits

- **Corrosion resistance:** HDPE is resistant to chemicals and biological attacks, so it can eliminate the need for corrosion inhibitors or chemical biocide treatment.
- **Abrasion resistance:** HDPE is more resistant to abrasion and erosion than bare carbon steel.
- **Cost effective:** HDPE lining can be a cost-effective solution.
- **Environmentally friendly:** HDPE lining can be an environmentally beneficial solution.

### Benefits of HDPE pipe lining compared to Rubber lining

Rubber has a high surface roughness so there's more energy loss due to resistance compared to HDPE or polyurethane liners. This energy loss affects the pumps too. You either have to run the pumps harder (leading to higher rates of wear on pumps and equipment) or install extra pump stations.



## Service applications

- Water treatment: HDPE lined pipes can be used for potable water
- Chemical processing: HDPE lined pipes can be used for chemical processing
- Sanitary sewers: HDPE lined pipes can be used for pressurized sanitary sewers
- Mining: HDPE lined pipes can be used for slurry and tailings pipelines
- Oil and gas: HDPE lined pipes can be used for oil and gas pipelines



Arrant Wise Pty Ltd stocks a wide range butt-weld, compression, electro-fusion and socket-weld fittings.

All fittings are made from PE100 and sizes range from 16mm to 1000mm (Depends fitting). All moulded fittings conform to various international quality standards and certification.

## JOINTING METHODS

One of the greatest features of HDPE pipe is that a wide range of jointing systems are available to suite any application. The jointing systems can be divided into two main categories with further sub-divisions in each category

### Moulded Fittings Range

#### 01 COMPRESSION FITTINGS

- Coupling
- 90 Degree Elbow
- 90 Degree Elbow(Male/Female)
  - Tees(Reducing/Female/Male)
  - End plugs
- Flanged Adaptor
- ReducingCoupling
- Male/Female Adaptor

#### 02 PE100 ELECTROFUSION FITTINGS

- Couplers

#### 03 CLAMP SADDLES

- Reinforced Saddle
- Unreinforced Saddle
- All Other Saddles Available On Request

#### 04 ELECTROFUSION REDUCERS

#### 05 PP FLANGES

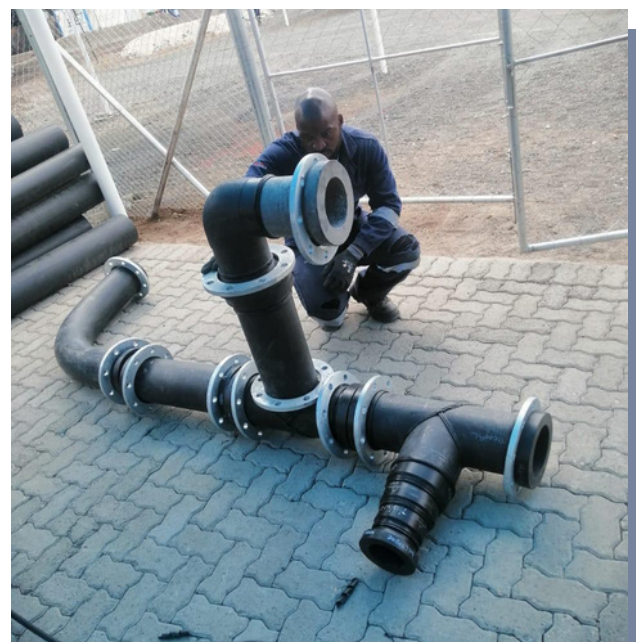
#### 06 TRANSITION FITTINGS

#### 07 ELECTROFUSION TEES

#### 08 ELECTROFUSION ELBOWS

#### 09 ELECTROFUSION BRANCH SADDLES

#### 10 ELECTROFUSION TAPPING SADDLES



# Fabricated Fittings



Arrant Wise Pty Ltd fabricates all types of fittings out of our PE100 piping. Laterals, Tees, Seamless bends, segmented bends and stubs. We can fabricate per drawing and as per requirements

## Product Range

### Available Fabricated fittings

#### 01 PE100 MOULDED BUTTWELD FITTINGS

- 90 Degree Elbow Long Spigot
- Tee Long Spigot
- EndCapLongSpigot
- Reducing Tee Long Spigot
- ReducerLongSpigot
- StubLongSpigotCrossLong

#### 02 Spigot

- Reducing Cross Long Spigot

#### 03 PE100 FABRICATED BUTTWELD FITTINGS

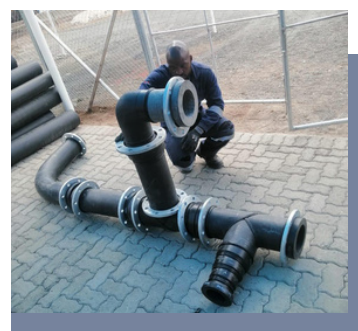
- PE100 Fabricated Stubs
- Segmented Bends
- Seamless Bend
- Fabricated Tees
- Fabricated Lateral



We have our own range of flanges, from 20mm upto 2000mm. The flanges are mildsteel, hot-dipped galvanised and conforms to SANS 1123. All other flanges are available on request

## Product Range

- 1000/3
- Table D
- 1600/3
- ASA150



We have a wide range of valves available in Steel and Thermo-Plastics.

## Product Range

### Available valves

- Flanged Resilient Seated Gate Valve – SABS 664
- Socketed Resilient Seated Gate Valve – SABS 664
- Plain End Resilient Seated Gate Valve
- Manufactured Flanged Resilient Seated Gate Valve – PN16
- Flanged Wedge Gate Valve – PN16 – SABS 664
- Resilient Seated Gate Valve – Rising Spindle – SABS 665
- Wedge Gate Valve Industrial Pattern -Non Rising Spindle – PN10
- Wedge Gate Valve Industrial Pattern – Rising Spindle – PN10
- Shouldered Butterfly Valve – Rubber Lined Disc
- Shouldered Non Return Valve
- Shoulderd Coupling
- Diaphragm Valve
- Butterfly Valve Wafer Nickel Plated Disc -PN16 Pinned
- Gearbox for Butterfly Valve Wafer type
- Butterfly Valve Wafer Type, 304 Stainless Steel Disc Pinned
- Butterfly Valve Wafer Type, 316SS disc, Pinless – PN25
- EPNS Butterfly Valves Wafer 316 Stainless Steel Body & Disc (Spline Shaft) PTFE Liner-PN16
- Butterfly Valve Wafer Type, 316SS disc, Pinless – PN25
- Double Eccentric Flanged Butterfly Valves
- Slurry Wafer Butterfly Valves



# Welding Machines

We manufacture different types of welding machines and Band Saws for all types of thermos-plastics. These include Butt-Weld, Electro-fusion and Fabrication Machines

## Product Range



RIYANG



RIYANG



RIYANG

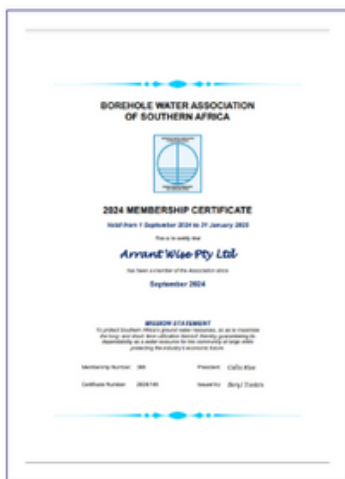


Note: please get this machines by visiting the Wise elastics website at [www.wiseelastics.co.za](http://www.wiseelastics.co.za)

# Our Certifications

The following certifications exist

- BBEE Level 1
- CIDB Grading
- ISO9001
- ISO14001
- ISO45001



Contact us



## Our Locations

Arrant Wise Office Physical Address



Head Office

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