



**Singardo**

## About Singardo

Singardo International Pte Ltd is a leading supplier of ductile iron pipes & fittings, HDPE (High Density Poly Ethylene) pipes & fittings, PPR (Polypropylene) pipe & fittings and various kinds of valves for all the water and gas infrastructure projects in Singapore. We are closely associated to the infrastructure, construction industry as well for supply of piping and valves materials for high rise skyscrapers and other buildings services.



Singardo was established in the 1970s as Singardo Trading Pte Ltd. Singardo have dealt with many products ranging from palm oil, coffee to sundry goods mainly exporting to Indonesia but finally settled down with the piping industry. We were the first company to introduce ductile iron pipes to the local Singapore market with our source from Japan of brand name Kurimoto.

In the late 1980s, after Japan products started to soar at an unprecedented rate, we came into contact with Electrosteel Casting Limited. We eventually became the first export market for Electrosteel India for their ductile iron pipes and within a year, Electrosteel became the market leader in Singapore.

In order to establish ourselves as a full solution provider we started to expand our product range so that we can offer customer the whole system of solutions. In the 1990s, we started dealing in valves, being the agent of AVK.

With Singardo's continued growth, Singardo and Electrosteel decided to join forces with a joint venture. Singardo Trading Pte Ltd was reorganised as Singardo International Pte Ltd in 2003 with Electrosteel becoming our business partner.

Through the 2000s, we have continued to grow with new product ranges and in 2007 we managed to achieve a L6 grade (highest grade) for supply of pipe products. With this L6 grade, we will be able to participate in supplying to the largest scale government projects tender.

**Furthering our expansion will be new product ranges.**

In 2006 we became the agent for Tyco Water Works, which resulted in an expansion of our valve product range.

In 2009, we entered the gas utilities market with a whole new range of transmission system clinching the sole distributorship rights for Egeplast (HDPE Pipes) and Friatec (HDPE Fittings), both of them from Germany. In just a year, we have approximately clinched 40 - 50% of the HDPE gas market.

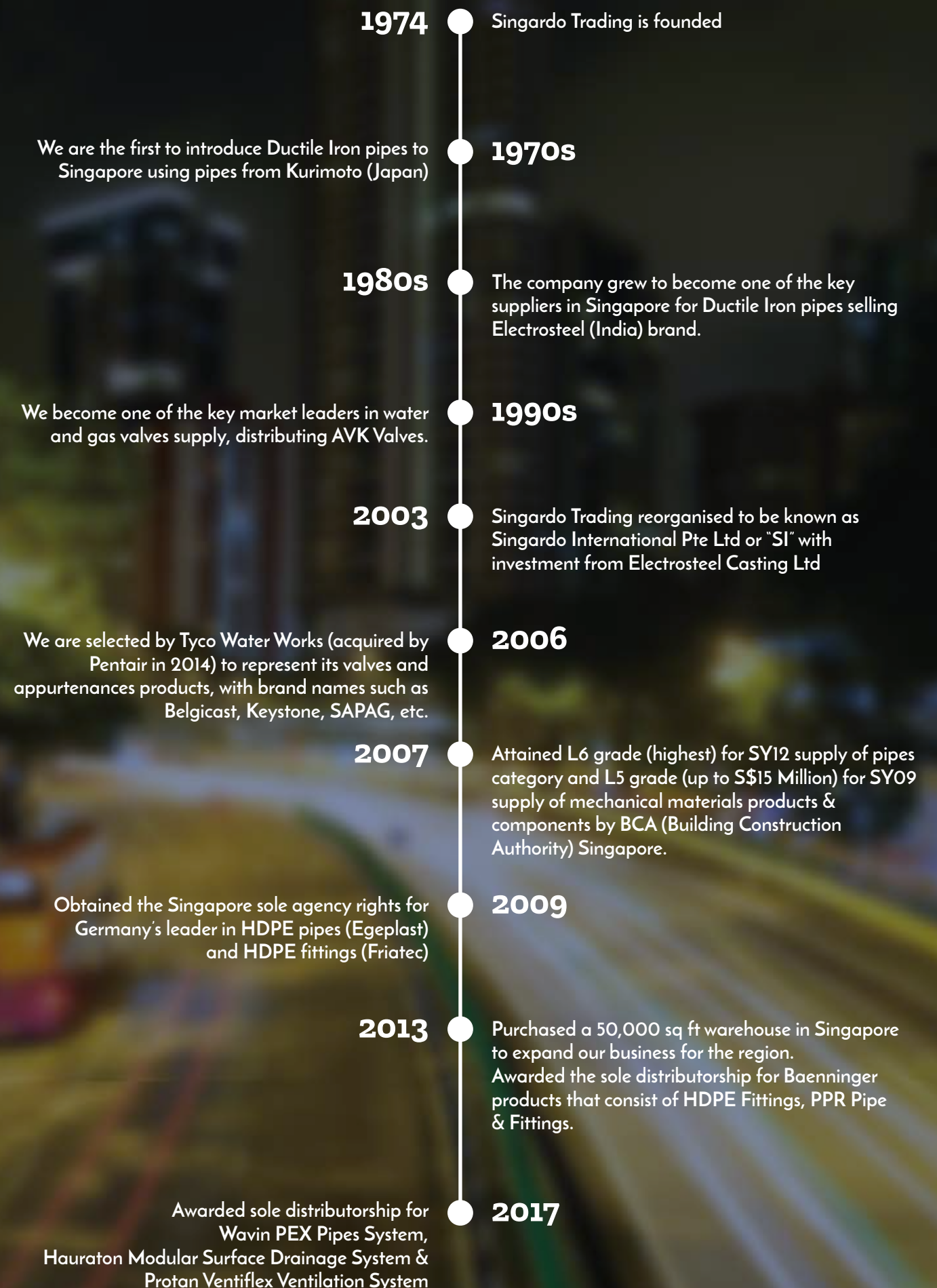
In 2013, we have again successfully entered a new sector of supply, the HVAC/ACMV market. We were awarded a project that utilises PPR-CT piping system for HVAC chilled water piping usage. With this we were awarded the sole distributorship for Baenninger from Germany, a supplier of PP-RCT piping system.

In 2016, we have obtained the PEX system distributorship from Wavin and in a short 6 months secured numerous projects amounting close to a Million Singapore Dollars worth of PEX order.

On the international front, Singardo also managed to secure their first project in Yangon, Myanmar in 2013. In the same year, we have started to actively participate in tenders from Phnom Penh, Cambodia. In 2016, we have also secured an airport water main supply project in Jakarta, Indonesia. With our recent push on internationalising Singardo's business, we are now active in Myanmar, Cambodia, Indonesia and Malaysia.

After 40 years of establishment, Singardo is still constantly looking for new high-quality products with leading technology to introduce into the market. Singardo has never been just a supplier but a complete solution and service provider. With a committed team in Singardo, a strong base on Singapore and a promising start in the region, we hope to eventually grow to become a major pipe solutions provider in South-East Asia.

## Milestones on our journey...





## Our Range of Products

Singardo International's product range includes ductile iron pipes & fittings, HDPE (High Density Poly Ethylene) pipes & fittings, PPR (Polypropylene) pipe & fittings and various kinds of valves for different types of water and gas infrastructure projects.

### Ductile Iron Piping System

Made of Ductile Cast Iron commonly used for Potable Water transmission and distribution that has a lifespan in excess of 100 years. This type of pipe is a direct development of earlier cast iron pipe, which it has superseded. Ideal for underground laying of main transmission lines.

**Main Usage:** Water, Wastewater

**Size Range:** DN80mm - DN2,000mm

**Standard Compliance:**  
ISO2531, ISO4179, BSEN545, BSEN598, AWWAC151, etc.

**Internal Coating available:**

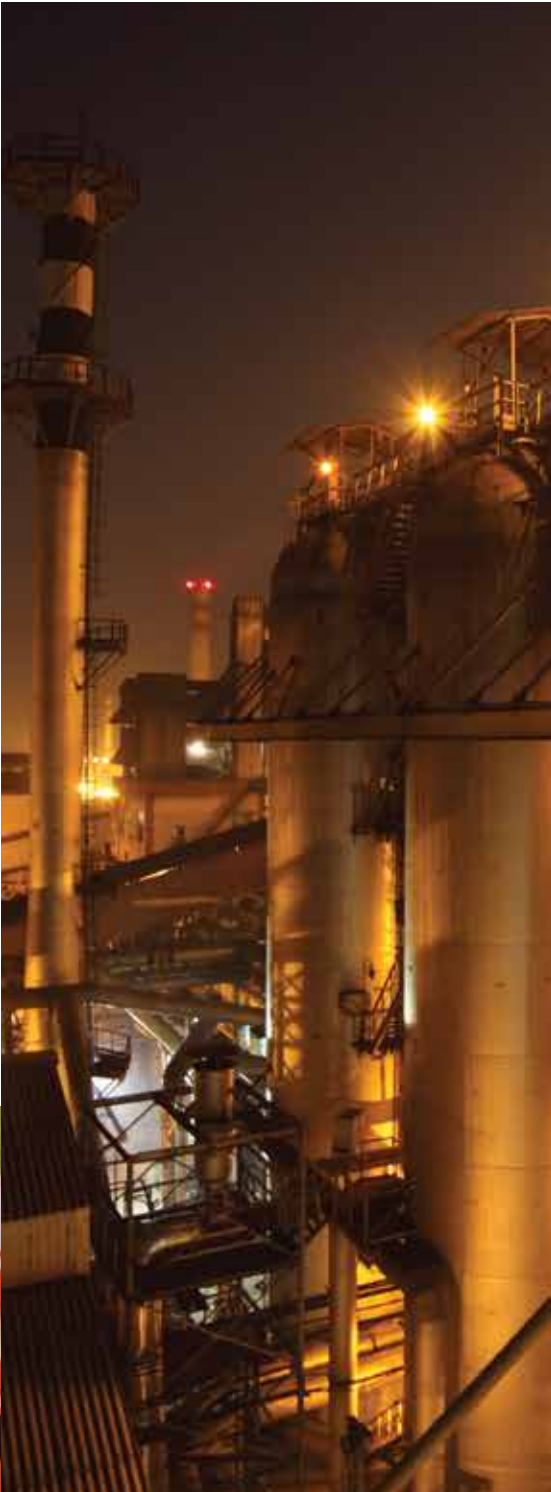
- Cement Mortar Lining
- Seal Coat with Cement Mortar Lining
- Ceramic Epoxy
- Fusion Bonded Epoxy (FBE)
- Polyurethane (PU)

**External Coating available:**

- Metallic Zinc,
- Zinc Alloy
- Bitumen
- Epoxy
- Polyurethane (PU)

**Joints Available:**

- Tyton Joint (Socket Spigot joint)
- Flanged Joint (Fixed/ Rotatable)
- Restraint Joint
- Mechanical/ Express Joint
- Self-Anchoring Joint (Electro-lock)



### High-Density Polyethylene (HDPE) Piping System

Polyethylene (PE) is a thermoplastic material produced from the polymerization of ethylene. PE is available in rolled coils of various lengths or in straight lengths up to 12meters. Ideal for underground laying of utilities' transmission lines.

**Main Usage:** Gas, Water, Wastewater, Protective Ducting, Pipe Rehabilitation

**Size Range:** OD32mm - OD2,000mm

**Standard Compliance:**  
ISO4427, ISO13954, EN1555, EN12201, DIN8074/8075, TIS982-2548

**Thickness Available:** SDR6 - SDR41

**Joints Available:**

- Butt-welding
- Electrofusion
- Compression-fit



### Polypropylene Random Copolymer (PPR/ PPR-CT) Piping System

Traditional usage of PPR pipe and fittings are a hot and cold water supply system suitable for all potable water applications and heating systems. The newest generation of raw material lead to a new material class called PP-RCT- Polypropylene Random Copolymer with modified Crystalline structure and enhanced Temperature performance. New market segments for PPR-CT are chill water system in HVAC/ACMV.

**Main Usage:**  
Hot & Cold Water, Building Services, HVAC (Chill Water), ACMV

**Size Range:** OD16mm - OD500mm

**Standard Compliance:** ISO15874, DIN8077/8078, ASTM F2389

**Thickness Available:** SDR6 - SDR11

**Joints Available:**

- Fusion joint
- Electrofusion





## Cross-linked Polyethylene (PEX) Piping System

Complete press-fit system for metal plastic (multilayer) pipes. The system can be used for sanitary (including potable water) and heating applications.

**Main Usage:** Hot & Cold Water, Building Services

**Size Range:** OD16mm – OD75mm

**Standard Compliance:** ISO21003

**Joints Available:**

- Push-fit
- Press-fit



## Utility Valves

Mechanical devices that controls/isolate the flow and pressure within a system or process. They are essential components of a piping system that conveys liquids, gases, vapors, slurries etc.

**Main Usage:** Water, Wastewater, Gas, Building Services

**Size Range:** DN50 – DN2,200mm

**Standard Compliance:** Various, depending on type of valve

**Joints Available:**

- PE-End Joint
- Flange Joint
- Lugged/Wafer



## Modular Slotted Surface Drainage System

Offering an extensive range of linear drainage and point drainage, rainwater treatment and infiltration, we offer an alternative solution to traditional precast concrete drainage system.

Individual solutions, such as the tailor-made slotted channels are our key strength. Our broad range of linear slotted drainage products encompass wide areas in civils, buildings, landscaping, sports arena, airports and seaports.

With a concept of functionality coupled with faster installation time, our surface drainage product has been a key choice for building owners, designers/architects and installers all over the world

Fully recyclable, our products are Light Weight, Green and Durable yet fully customizable to suit all drainage configuration.

We also offer a unique software app for flow rate capacity calculation in meeting your drainage flow requirements

**Material Selection:**

- Fiber reinforce plastic polymers OR
- Polymer concrete

**Choice of Gratings material/design:**

- Fiber reinforce plastic polymers
- Metal-Alloy/Stainless Steel
- Ductile Iron

**Size range (Width):** 100mm to 450mm and large capacity.

**Standard Compliance:** Load class standard EN 1433





### Wire Rods

Steel wire rods are an all-round talent since they are the key product of steel industry with multiple uses. They are used as the material for fasteners, springs, bearings, wire ropes, chains, cables, wire meshes, wire fencings, tyre cord, reinforcement in railway sleepers, and many other uses. They are used for the components needed for the automotive industry, chemical industry, power stations and machine engineering.

- Main Usage:** Various industries

**Size Range:** DN5.5mm – DN16.0mm

**Grades Available:**

  - Low Carbon
  - Medium Carbon
  - High Carbon
  - Cold Heading Quality Steel
  - Electrode Quality
  - Alloy Steel

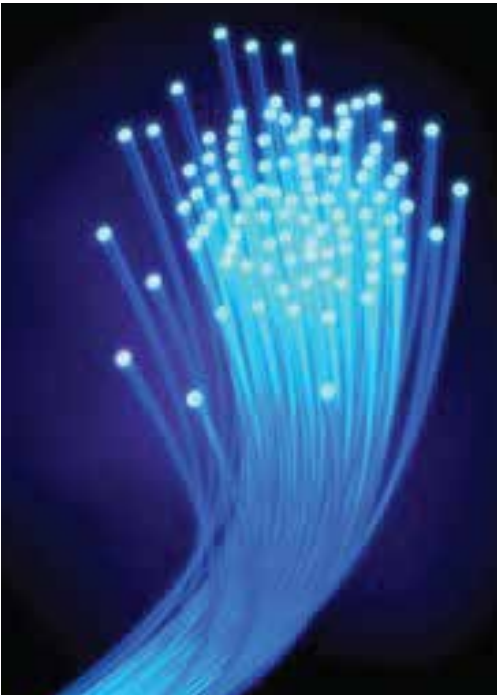


### Optical Fibre Cable

The fibre itself is a strand of silica based glass, it's dimensions similar to those of a human hair, surrounded by a transparent cladding. Light can be transmitted along the fibre over great distances at very high data rates providing an ideal medium for the transport of information.

- Range of Cables:**

  - Loose Buffer Tube Duct Type F/O Cable (4 - 96 cores)
  - Loose Buffer Tube Aerial F/O Cable (4 - 48 cores)
  - Slotted Core F/O Cable (2 - 12 cores)
  - Slotted Core Ribbon F/O Cable (24 - 192 cores)
  - Drop Type F/O Cable (2 - 12 cores)
  - Indoor Type F/O Cable (1 - 2 cores)
  - Slickcore Low Friction Indoor Type F/O Cable (1 - 2 cores)



### Low Noise Soil & Waste System

Ideal for installation in multi-storey buildings and those that are particularly sensitive to noise: hospitals, hotels, social or healthcare buildings, offices, apartment buildings and libraries. It is also excellent for drainage of fluids at high temperature (kitchens, restaurants, launderettes, industrial waste etc.).

- Main Usage:** Wastewater

**Size Range:** OD32mm – OD160mm

**Standard Compliance:** EN1451, DIN4109, EN13501

**Joints Available:** Push-fit



### Air Ventilation System

Tubular Flexible Tunnel Ventilation Ducting made of Plasticised PVC coating reinforced with a polyester textile that is flame retardant to EN 13501-1. Lightweight and extremely durable, it is used solely for tunnel ventilation during construction stage. Available in various tensile strength grades plus optional antistatic properties to suit various performance range, our ventilation ducting is compatible with all series and categories of tunnel ventilation fan. The ventilation ducting has a long history of over 70 years with a long list of worldwide supply project references.

- Main Usage:** Tunnel, Mine, Shipbuilding Air ventilation system

**Size Range:** OD200mm – OD3,200mm

**Joints Available:**

  - Industrial Grade Zip
  - Industrial Grade Velcro
  - Mechanical Steel Coupling



### Reinforcing Bars (Re-Bar)

A steel bar or mesh of steel wires used as a tension device in reinforced concrete and reinforced masonry structures to strengthen and hold the concrete in tension. Rebar's surface is often patterned to form a better bond with the concrete.

- Main Usage:** Building Construction

**Size Range:** DN8mm – DN40mm

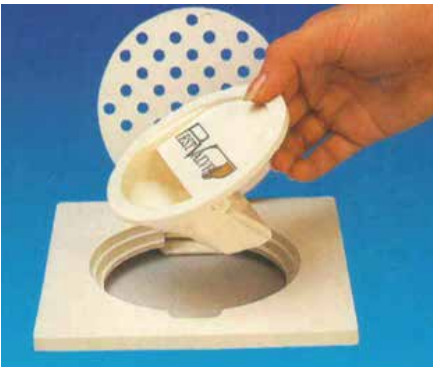
**Standard Compliance:** IS1786:2008



### Pest Valve (Anti Pest Floor Trap)

A simple plastic device that allows water to flow through as usual and yet inhibits pest from entering through the floor traps.

- Size:** DN100mm





# HDPE Corrugated Pipe

Ideal for Gravity Flow Drainage System, Water Pipelines and Industrial Sewer Pipes.

- Size: DN100mm - DN800mm
- Standard Compliance: ISO21138, EN13476, EN50086, DIN16961



# TAGUA Smart Monitoring System

TAGUA is a cloud based system dedicated to asset management for devices requiring a visit or regular maintenance on water/wastewater/gas networks. TAGUA is a 100% web software associated with a mobile application. On field, the mobile application Smart-Inside is available for the Android platform. The devices managed by TAGUA are equipped with a RFID NFC chip. Reading this TAG allows immediate and unfalsifiable identification.







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