

Edoburg®



# Irrigation Drip & Sprinkler

IRRIGATION: ENHANCING GROWTH, ONE  
DROP AT A TIME



**Edoburg**<sup>®</sup>  
PIPING SYSTEMS

# About Edoburg

**Edoburg**, an ISO 9001 certified company, specialises in supplying high-quality piping systems that consistently meet stringent international standards, ensuring unparalleled performance of the piping systems. Our experienced team, equipped with extensive technical knowledge, coupled with our efficient operations and fast turnaround time, enables us to provide top-tier supply of piping products tailored to your needs.

## Our Mission

Edoburg's mission is to supply high-quality piping systems worldwide, offering a complete solution that meets international standards to ensure superior performance in every project.

## Product Range

Our stellar lineup of pipes, ready for every project:

- PEX Pipe: PEX-A, PEX-B, PEX-A EVOH, PEX-B EVOH
- PPR Pipe
- PERT Pipe
- HDPE Pipe
- MDPE Pipe
- PVC-C Pipe: Portable water, Reclaim water, Industrial
- PVC-U Pipe: Drainage, Portable water, Reclaim water, Industrial
- PVC-O
- Composite Pipe: PEX-AL-PEX, HDPE-AL-HDPE
- PVC Electrical Conduit
- PVC Hose

## Complete Solution Concept

Our wide range of products represent our complete solution concept.

With our products intended for diverse sectors, we offer individual and comprehensive system solutions. Focusing on the needs of projects and entire system.

We provide high standards of products in the market at all times. We always stand by our piping systems and reliable service network.

As a global pipe supplying company that stands out with successful operations ever since our incorporation, we act as a solution point to meet all your needs based on our technical knowledge, specialization and reliability.

## Quality Assurance

We are committed to excellence in every aspect of our operations. The products we supply comply with the international standards and certifications, ensuring reliability, durability, and safety in every application. With Edoburg, you can trust that you're receiving top-notch piping solutions that meet your specifications and exceed your expectations.

## Our Presence in the World

Our warehousing are strategically located in various places in **India**, **Vietnam** and **China**, to ensure efficient distribution of the products. We ensure fast deliveries with our modern logistics partners deployed at our local distribution hubs which are strategically located near the ports to ease the export of products. Edoburg Piping Systems exports its products all over the world.

## Our Market Segments

Based on our experience and high-quality standard of products in the sector, Edoburg Piping Systems supports its clients with a complete piping solutions for every project requirement.

- Chemical and Petrochemical
- Water and Wastewater
- Mining and Mineral Processing
- Power Generation
- Marine and Offshore
- Building and Construction
- Manufacturing Industries
- Agriculture
- Pharmaceuticals
- Infrastructure

# About Plastics

Plastics are polymers created by the chemical conversion of natural products or synthesized from organic materials. The primary components that make up the building blocks of plastics are long chains of carbon (C) and hydrogen (H) known as monomers.

The raw materials used for the production of plastics are natural compounds such as cellulose, coal, oil and natural gas. In the plastics industry, around 6 % of the petroleum products that come out from refineries is used.

Plastics fall into three main categories on the basis of their internal structure and the resulting mechanical characteristics: thermoplastics, thermosetting plastics and elastomers.

## Advantages of Plastics

Thermoplastics obviously demonstrate different characteristics than those of the metals traditionally used for piping.

Metal	Plastic
<b>High density</b> <ul style="list-style-type: none"> <li>Crane is needed for transport.</li> <li>Requires wide spacing for fixings.</li> <li>High anchoring forces, fixing required.</li> </ul>	<b>Low density</b> <ul style="list-style-type: none"> <li>Can be carried by hand up to d110.</li> <li>Requires minimal spacing for fixings.</li> <li>Simple and economical.</li> </ul>
<b>Thermal conductivity</b> <ul style="list-style-type: none"> <li>Insulation is needed to limit heat loss.</li> <li>Formation may result in corrosion.</li> </ul>	<b>Low thermal conductivity</b> <ul style="list-style-type: none"> <li>Limited heat loss.</li> <li>Low levels of condensation and resistance to corrosion.</li> </ul>
<b>Corrosion Behaviors</b> <ul style="list-style-type: none"> <li>Galvanic corrosion can occur.</li> <li>Corrosion reduces internal diameter.</li> <li>Reduced diameter causes pressure losses.</li> </ul>	<b>High Corrosion Resistance</b> <ul style="list-style-type: none"> <li>Galvanic Corrosion Free.</li> <li>Prevents corrosion and diameter reduction.</li> <li>No pressure losses.</li> </ul>
<b>Chemical resistance</b> <ul style="list-style-type: none"> <li>Low Resistance to Acids.</li> <li>Damage from Incrustation.</li> </ul>	<b>High chemical resistance</b> <ul style="list-style-type: none"> <li>A minimum of 25-years of life with correct jointing methods.</li> <li>Incrustation free.</li> </ul>

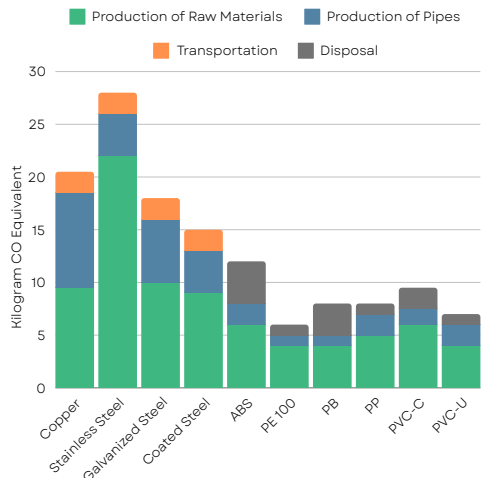
Thermoplastics in turn can be split into two main categories as partially-regulated (semi-crystalline) and irregular (amorphous) molecular structures.

- Semicrystalline thermoplastics, which have a partially ordered molecular structure: this category includes the polyolefins (polypropylene, polyethylene, polybutylene) and fluoropolymers (PP, PE, etc.)
- Amorphous thermoplastics, which have no crystalline regions and no packed molecular structure: this category includes the vinyl chlorides (PVC-U, PVC-C, etc.) and styrenes (ABS, polystyrene, etc.)

Semicrystalline materials are more suitable for hot welding, while amorphous thermoplastics are ideal for cementing or cold welding (solvent cementing).

## Carbon Footprint of Plastics Vs Metal

It is the total of all greenhouse gases emitted to the atmosphere during the entire lifetime including the processes for extracting a product having carbon footprint from under the ground, refining, producing, using and disposing of that product.





# Irrigation Drip & Sprinkler

Edoburg presents a superior range of Irrigation Drip & Sprinkler Systems, meticulously designed to ensure efficient and effective water distribution across agricultural and landscaping applications. Engineered with precision, our irrigation solutions are renowned for their durability, ease of installation, and exceptional performance in both small-scale and large-scale environments.

- **High-Quality Material:** Made from top-grade materials, ensuring excellent resistance to weathering, UV radiation, and mechanical stress.
- **Efficient Water Distribution:** Designed to deliver water directly to the roots, minimizing waste and ensuring optimal plant growth and health.
- **Easy Installation:** Quick and simple setup process that saves time and reduces labor costs, with no need for specialized tools or equipment.
- **Wide Range of Applications:** Suitable for agricultural fields, greenhouses, gardens, lawns, and landscapes, providing versatile irrigation solutions.
- **Versatile and Adaptable:** Available in various sizes and configurations, including drip lines, sprinklers, and emitters, to meet diverse application requirements and offer maximum flexibility.
- **Customization:** Options available for tailored solutions to fit specific project needs, enhancing efficiency and cost-effectiveness.

## Fields of Application

- Agricultural fields
- Greenhouses
- Gardens
- Lawns
- Landscapes

## Certifications



## Technical data

### Working Temperature

- 0°C to 50°C

(Suitable for a wide range of diverse climatic conditions.)

### Pipe Standard

- IS 13488
- IS 12786

### Pressure Rating

- Up to 4 Bar

# Product Range

## 1) Emitting Pipe (Integral Drip Line) Hydrogol



Size	Discharge	Thickness	Dripper Spacing
12mm	2 LPH, 4 LPH	0.45mm, 0.65mm	30cm To 120cm
16mm	2 LPH, 4 LPH	0.55mm, 0.80mm	30cm To 120cm
20mm	2 LPH, 4 LPH	0.75mm	30cm To 120cm

## 2) Emitting Pipe (Integral Drip Line) Flat Drip



Size	Discharge	Thickness	Dripper Spacing
12mm	2 LPH, 4 LPH	0.45mm, 0.65mm	30cm To 120cm
16mm	2 LPH, 4 LPH	0.2mm, 0.25mm, 0.3mm, 0.4mm, 0.55mm, 0.8mm	30cm To 120cm
20mm	2 LPH, 4 LPH	0.75mm	30cm To 120cm

## 3) LLDPE Plain Lateral



Size	Thickness
12mm	1.0mm
16mm	1.2mm
20mm	1.0mm & 1.3mm
32mm	2.2mm

## 4) Dripper (Emitter )



Discharge
4 LPH
8 LPH
14 LPH

## 5) Sprinkler Pipes



Type	Size	Thickness
C -Type & L -Type	63 mm	2.2 mm
	75 mm	2.2 mm, 2.7 mm
	90 mm	2.4 mm

## 6) Sprinkler Accessories



## 7) Nozzle / Sprinkler



Type	Operating Pressure	Discharge	Radius
Mini Sprinkler Plastic	2 Kg	8.13 LPM	9.0 Mtr
Overhead Sprinkler Bronze	2 Kg	34. 50 LPM	12.6 Mtr

## 8) Ventury Assembly



Size	Inlet Pressure	Motive Flow L/H	Water Suction L/H
3/4"	2	1355	111
1"	2	4290	219
1.5"	2	6590	650
2"	2	6590	670

## 9) Filter Screen Metal (Also Available in Plastic Body)



Inlet / Outlet	Max. Working Pressure	Range of Flow	Filtration Surface Area
2"	8 Kg/cm <sup>2</sup>	20m <sup>3</sup> /hr	492 cm <sup>2</sup>
2.5"	8 Kg/cm <sup>2</sup>	30m <sup>3</sup> /hr	492 cm <sup>2</sup>
3"	8 Kg/cm <sup>2</sup>	40m <sup>3</sup> /hr	1193 cm <sup>2</sup>

## 10) Filter Disc Plastic



Inlet / Outlet	Max. Working Pressure	Range of Flow	Filtration Surface Area
2"	8 Kg/cm <sup>2</sup>	20m <sup>3</sup> /hr	878 cm <sup>2</sup>
2.5"	8 Kg/cm <sup>2</sup>	30m <sup>3</sup> /hr	878 cm <sup>2</sup>
3"	8 Kg/cm <sup>2</sup>	40m <sup>3</sup> /hr	1193 cm <sup>2</sup>

## 11) Sand Separator / Filter



Inlet / Outlet	Range of Flow
2"	20m <sup>3</sup> /hr
2.5"	30m <sup>3</sup> /hr
3"	40m <sup>3</sup> /hr
3"	50m <sup>3</sup> /hr

## 12) Emitting Pipe Accessories



Size 12mm, 16mm, 20mm

## 13) Control Valve



Size
63mm,
75mm,
90mm,
110mm

## 14) Foggers



Type	4 Way
Pattern	3600
Operating Pressure	4 K.g
Flow Rate (Lph)	30

## 15) Rain Pipe



Size	Packing	Micron
32 mm	100 meter	300
40 mm	100 meter	300

Disclaimer: The information and technical data (altogether "Data") herein are not binding. The Data neither constitutes any expressed, implied or warranted characteristics, nor guaranteed properties or a guaranteed durability. All Data is subject to modification. The General Terms and Conditions of Sale of Edoburg Piping Systems apply.

# Edoburg®

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