



VOLSTAR™ PE LATERAL PIPES

By Malpani Pipes and Fittings Limited

Product Overview

Introduction to Volstar

Welcome to Volstar, your trusted brand for high-quality Polyethylene (PE) Lateral Pipes. Manufactured by Malpani Pipes and Fittings Limited, Volstar PE Lateral Pipes are designed to meet the highest standards of reliability, efficiency, and durability. With a strong commitment to innovation and quality, we ensure that every pipe delivers exceptional performance in a variety of applications.



Manufacturer: Malpani Pipes and Fittings Limited

Malpani Pipes and Fittings Limited has established itself as a leader in the industry, known for producing superior piping solutions. Our state-of-the-art manufacturing facilities and rigorous quality control processes ensure that our products exceed industry standards. Our dedication to excellence and customer satisfaction makes us a preferred choice for clients worldwide.

Standard Compliance

Volstar PE Lateral Pipes conform to IS 12786:1989 standards, ensuring top-notch quality and consistency. This standard outlines the requirements for polyethylene pipes for irrigation laterals, setting benchmarks for material, dimensions, and performance.

Product Features

1. High-Quality Material

Volstar PE Lateral Pipes are made from premium-grade polyethylene, which offers exceptional resistance to corrosion, chemicals, and environmental stress. The material's flexibility and toughness ensure long-term durability, making it ideal for various irrigation and fluid transport applications.

2. Superior Performance

- **Strength and Durability:** Our PE lateral pipes are designed to withstand high pressure and mechanical stress, ensuring a long service life.



- **Flexibility:** The inherent flexibility of polyethylene allows for easy handling and installation, even in challenging terrains.
- **UV Resistance:** Enhanced UV resistance prevents degradation due to prolonged exposure to sunlight, making these pipes suitable for outdoor applications.

Efficiency and Cost-Effectiveness

1. **Low Friction Loss:** Smooth internal surfaces minimize friction loss, ensuring efficient fluid flow and reducing energy costs.
2. **Leak-Proof Joints:** Precision-engineered joints provide a secure and leak-proof connection, minimizing water loss and maintenance needs.
3. **Cost-Effective:** The durability and low maintenance requirements of Volstar PE Lateral Pipes contribute to their cost-effectiveness over their lifespan.

Versatile Applications

Volstar PE Lateral Pipes are versatile and can be used in various applications, including:

1. **Irrigation Systems:** Ideal for agricultural irrigation, ensuring efficient water distribution to crops.
2. **Water Supply:** Suitable for potable water distribution in residential, commercial, and industrial settings.
3. **Drainage Systems:** Effective for drainage and waste management in various environments.

Technical Specifications

1. Material Properties

- Material : High-Density Polyethylene (HDPE)
- Density : 0.941 - 0.965 g/cm³
- Tensile Strength : ≥ 20 MPa
- Elongation at Break : ≥ 600%
- Thermal Conductivity : 0.41 W/mK

2. Operating Conditions

- Temperature Range: -40°C to 60°C
- Maximum Operating Pressure: 6 kg/cm² (depending on size and application)
- UV Resistance: Enhanced for prolonged outdoor exposure

Installation Guidelines



1. Preparation

- **Site Assessment:** Evaluate the installation site to ensure it meets the requirements for optimal pipe performance.
- **Trench Preparation:** Dig trenches to the required depth and width, ensuring a stable base free from sharp objects that may damage the pipes.
- **Pipe Inspection:** Check the pipes for any visible damage before installation.

Installation Steps

- **Laying the Pipes:** Place the pipes in the trench, ensuring they are laid in a straight line without any sharp bends.
- **Joining the Pipes:** Use appropriate fittings and jointing methods to connect the pipes securely. Ensure that all joints are properly sealed to prevent leaks.
- **Backfilling:** Carefully backfill the trench, ensuring that the fill material is free from sharp objects. Compact the fill material to provide stable support for the pipes.

Testing and Commissioning

1. **Pressure Testing:** Conduct a pressure test to ensure that the system is leak-proof and can handle the specified operating pressure.
2. **Inspection:** Inspect all joints and connections to ensure they are secure and leak-free.
3. **Commissioning:** Once the system passes the pressure test and inspection, it can be commissioned for use.

Quality Assurance

1. Manufacturing Excellence

At Malpani Pipes and Fittings Limited, quality is at the core of our manufacturing process. We employ advanced technology and stringent quality control measures at every stage of production to ensure that our pipes meet the highest standards.

2. Certifications

Volstar PE Lateral Pipes are certified to meet IS 12786:1989 standards. This certification ensures that our pipes are manufactured to precise specifications and deliver consistent performance in all applications.

3. Warranty



We stand behind the quality of our products. Volstar PE Lateral Pipes come with a comprehensive warranty that covers manufacturing defects, ensuring peace of mind for our customers.

Environmental Responsibility

1. Sustainable Manufacturing

We are committed to sustainable manufacturing practices that minimize environmental impact. Our production processes are designed to conserve energy and reduce waste, contributing to a greener planet.

2. Recyclability

Volstar PE Lateral Pipes are made from recyclable materials, promoting sustainability and reducing environmental footprint. At the end of their service life, the pipes can be recycled to create new products, supporting a circular economy.

Customer Support

1. Technical Assistance

Our team of experts is available to provide technical assistance and support throughout the installation and operation of Volstar PE Lateral Pipes. Whether you need help with product selection, installation guidance, or troubleshooting, we are here to help.

2. After-Sales Service

We believe in building long-term relationships with our customers. Our after-sales service ensures that you receive ongoing support and assistance, ensuring the continued performance and reliability of our products.

Contact Us

For more information about Volstar Pipes and Fittings, please contact us:

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