

# ***Volstar PVC Pipes and Fittings***

*by Malpani Pipes and Fittings Limited*

## **Introduction**

Volstar PVC Pipes and Fittings are designed and manufactured to meet the highest standards of quality and performance. Compliant with IS 4985, Volstar products are ideal for a wide range of applications, including water supply, irrigation, drainage, and chemical processing. With our commitment to excellence, Volstar offers solutions that are durable, flexible, and resistant to corrosion, rusting, and weathering.



## **About Volstar PVC Pipes**

Volstar PVC Pipes are made from unplasticized polyvinyl chloride (uPVC), which ensures high durability and strength. Our pipes are engineered to withstand tough working conditions, including high pressure, chemical exposure, and extreme temperatures. The inherent properties of PVC make our pipes ideal for transporting water, wastewater, chemicals, and hazardous effluents.

## **Key Features**

- 1. Durability:** Volstar PVC Pipes are built to last, offering a long service life and excellent performance under harsh conditions.
- 2. Corrosion Resistance:** Unlike metallic pipes, PVC pipes are immune to rust and corrosion, ensuring a longer lifespan and reduced maintenance costs.



- 3. Chemical Resistance:** PVC pipes are resistant to a wide range of chemicals, including acids, bases, and salts, making them suitable for industrial applications.
- 4. Lightweight:** Easy to handle and install, PVC pipes reduce labor costs and simplify transportation.
- 5. Fire Resistance:** The chlorine content in PVC provides increased resistance to fire and flame spread.
- 6. Flexibility:** PVC pipes can be used in various configurations, including surface installation, buried underground, slip lining, trenchless technology, floating, or submerged applications.

## Product Range

Volstar offers an extensive range of PVC pipes and fittings in various diameters and pressure ratings to cater to diverse applications. Our products are available in the following pressure classes:

1. Class 1 (0.25 MPa)
2. Class 2 (0.40 MPa)
3. Class 3 (0.60 MPa)
4. Class 4 (0.80 MPa)
5. Class 5 (1.00 MPa)
6. Class 6 (1.25 MPa)

## Applications

- 1. Water Supply:** Volstar PVC pipes are ideal for potable water supply, offering a safe and reliable solution for residential, commercial, and industrial water distribution.
- 2. Irrigation:** Our pipes are perfect for agricultural irrigation systems, providing efficient water delivery to crops and fields.
- 3. Drainage and Sewage:** Volstar PVC pipes are designed for wastewater management, ensuring effective drainage and sewage disposal in urban and rural areas.
- 4. Chemical Transport:** Resistant to a wide range of chemicals, our pipes are suitable for industrial applications involving the transport of corrosive substances.
- 5. HVAC Systems:** In building air ventilation, PVC is often used for ductwork in HVAC, air conditioning, and heating systems.

## Standards and Certifications

Volstar PVC Pipes and Fittings comply with IS 4985, ensuring that they meet stringent quality and safety standards. Our products undergo rigorous testing to ensure they perform reliably in various applications. Key tests include:

- 1. Hydrostatic Pressure Test:** Ensures the pipes can withstand internal pressure without failure.
- 2. Tensile Strength Test:** Measures the pipe's ability to resist breaking under tension.
- 3. Impact Resistance Test:** Assesses the pipe's durability and resistance to impact damage.



4. **Vicat Softening Temperature Test:** Determines the temperature at which the material softens, indicating its thermal stability.

## Installation Guidelines

Proper installation is crucial for the optimal performance of Volstar PVC pipes. Here are some key guidelines to follow:

1. **Handling and Storage:** Store pipes in a cool, shaded area away from direct sunlight. Handle with care to avoid damage.
2. **Cutting:** Use a fine-toothed saw or pipe cutter to ensure clean, square cuts.
3. **Cleaning:** Remove any dirt, grease, or moisture from the pipe ends and fittings before joining.
4. **Joining:** Use solvent cement for a secure and leak-proof joint. Apply a uniform layer of cement to both the pipe and fitting surfaces.
5. **Curing:** Allow sufficient curing time for the solvent cement to set before applying pressure.
6. **Pressure Testing:** Conduct a pressure test to ensure the integrity of the installation before commissioning the system.

## Maintenance and Safety

Volstar PVC pipes require minimal maintenance due to their resistance to corrosion and chemical attack. However, regular inspections are recommended to ensure the system's longevity and performance. Here are some maintenance tips:

1. **Visual Inspection:** Regularly check for signs of wear, damage, or leaks.
2. **Cleaning:** Keep the pipes free from debris and obstructions to maintain optimal flow.
3. **Repair:** Promptly repair any damaged sections using appropriate methods and materials.

## Safety Considerations

While Volstar PVC pipes are designed for safety and durability, following proper safety protocols is essential during installation and maintenance:

1. **Personal Protective Equipment (PPE):** Wear appropriate PPE, such as gloves, safety glasses, and protective clothing, to prevent injuries.
2. **Safe Handling:** Use proper lifting techniques and equipment to avoid strain or injury.
3. **Ventilation:** Ensure adequate ventilation when using solvent cement to avoid inhaling fumes.

## Environmental Benefits

Volstar PVC pipes offer several environmental advantages:

1. **Energy Efficiency:** The production and transportation of PVC pipes require less energy compared to metallic pipes, reducing the overall carbon footprint.



- 2. Recyclability:** PVC is a recyclable material, contributing to sustainable waste management practices.
- 3. Longevity:** The long service life of PVC pipes reduces the need for frequent replacements, conserving resources and reducing waste.

## Customer Support

Volstar is committed to providing excellent customer support. Our team of experts is available to assist with product selection, technical support, and installation guidance. We offer comprehensive documentation, including installation manuals, technical data sheets, and safety guidelines, to ensure our customers have all the information they need for a successful project.

## Contact Us

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

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## Conclusion

Volstar PVC Pipes and Fittings are the ideal choice for a wide range of applications, offering durability, chemical resistance, and ease of installation. Compliant with IS 4985, our products provide reliable performance and long-term value. Trust Volstar for all your piping needs, and experience the difference in quality and service.

Disclaimer: The information provided in this brochure is for general guidance only. Specific applications may require additional considerations. Please consult with a Volstar representative for tailored advice and support.