



TORONTECH

END CLOSURE AND END CAPS FOR PLASTIC PIPES



ASTM D 1598, ASTM D 1599, ISO 1167

The internal pressure test determines how well thermoplastic pipes withstand constant hydrostatic pressure at a fixed temperature. Samples are tested for a set duration or until failure occurs. The length of the test depends on the pressure-induced stress and the temperature conditions.

End closures are used to seal the pipe samples, allowing internal pressure to build up. The maximum pressure applied varies based on standards, specifications, and the diameter of the pipe sample.

APPLICATIONS

Plastic Pipe Manufacturers & Extrusion Plants – Used for hydrostatic pressure testing during product development and batch quality control to validate compliance with ASTM, ISO, and other standards.

Research & Testing Laboratories – Essential for material science studies and performance evaluation of thermoplastic pipes under long-term and short-term pressure conditions.

Water Supply & Irrigation Industry – Applied in quality assurance testing of PE, PVC, and PP pipes for potable water and irrigation networks, ensuring durability and leak resistance.

Gas Distribution & Energy Industry – Enables safe testing of pipes intended for natural gas, district heating, and industrial fluid transport under high-pressure conditions.

Construction & Infrastructure Projects – Used in certification and acceptance testing of plastic piping systems for sewage, drainage, and municipal applications.

Certification & Standards Agencies – Supports independent third-party verification of pipe reliability and performance according to ASTM D1598, ASTM D1599, and ISO 1167 standards.

Pipeline Maintenance & Failure Analysis – Facilitates hydrostatic pressure failure testing for defect identification and safety validation in field or lab environments.

Universities & Technical Institutes – Training tool for teaching pressure testing methods, materials performance, and compliance with international piping standards.

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FEATURES

End Closure and End Caps for Plastic Pipes Features

1. Specially designed for easy installation and secure sealing. Split-type clamps allow for automatic centering.
2. Made from high-quality stainless steel, offering corrosion resistance, long-lasting performance, and reduced weight.
3. The design provides a lightweight structure and enables quick assembly.
4. End caps are manufactured with a defined depth from the O-ring to the internal bottom, ensuring a proper fit—even on chamfered or oval-shaped PE pipes.
5. Simple and reliable venting system located directly at the sample.

- 6. Includes a stainless steel chain to prevent the lower enclosure from sinking to the bottom of the water tank in case of sample failure.
- 7. Equipped with an air inlet and a drain port to remove water after testing, specifically for large-diameter end caps.

TECHNICAL SPECIFICATIONS

Specification	Details
Material	Stainless steel (carbon steel optional)
Diameter range	Ø12mm up to Ø3500mm
Connection	1/4" male connection
Maximum test pressure	Up to 160 bar
Processing technique	Machining / Casting



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