

Medium-diameter distribution box with iron casing

Article Overview

A medium-diameter distribution box with an iron casing is typically a cast iron or steel enclosure designed for water, gas, or utility distribution systems, offering durability, corrosion resistance, and traffic-rated protection.

Material and Construction

Medium-diameter distribution boxes are commonly made from cast iron, galvanized steel, or concrete with cast iron covers. Cast iron provides excellent strength, durability, and resistance to vehicular traffic, making it suitable for both residential and commercial installations . Galvanized steel enclosures are also used for custom dimensions and tight-fit applications, offering corrosion resistance and structural integrity . Concrete boxes with cast iron lids are standard in municipal water systems, providing long-term durability and protection against environmental damage .

Size and Diameter

Medium-diameter boxes generally accommodate 5/8" to 2" meters or distribution lines, with enough internal space for maintenance access, valve operation, and emergency shutoffs . The exact dimensions depend on the application, whether for residential service, commercial installations, or industrial setups.

Features and Options

- o Traffic-rated lids: Cast iron covers can be rated for pedestrian or vehicular traffic, preventing damage in driveways or roadways .
- o Locking mechanisms: Some boxes include locking lids for tamper-prone areas or secure utility access .
- o Custom branding: Many suppliers offer stamped or cast logos, city names, or meter size markings on the lid .
- o Corrosion resistance: Galvanized or coated steel options enhance longevity in harsh environments .

Suppliers and Availability

- o Ferguson: Offers a range of cast iron boxes, frames, and covers suitable for plumbing and utility applications .
- o Pollardwater: Supplies valve boxes, lids, and accessories for waterworks and utility contractors .
- o Bass & Hays: Provides American-made water meter boxes, concrete enclosures, galvanized steel boxes, and cast iron covers, with options for traffic-rated lids, locking mechanisms, and custom branding .

Considerations for Selection

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When selecting a medium-diameter distribution box with an iron casing, consider:

- o Load rating: Ensure the lid and box can withstand expected traffic.
- o Environmental exposure: Choose corrosion-resistant materials for outdoor or wet environments.
- o Maintenance access: Adequate internal space for valves, meters, and emergency operations.
- o Compliance: Verify ASTM or local utility standards for installation and safety. These boxes are widely available from suppliers with same-day or next-day shipping for standard sizes, and custom options can be manufactured to meet specific project requirements .

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