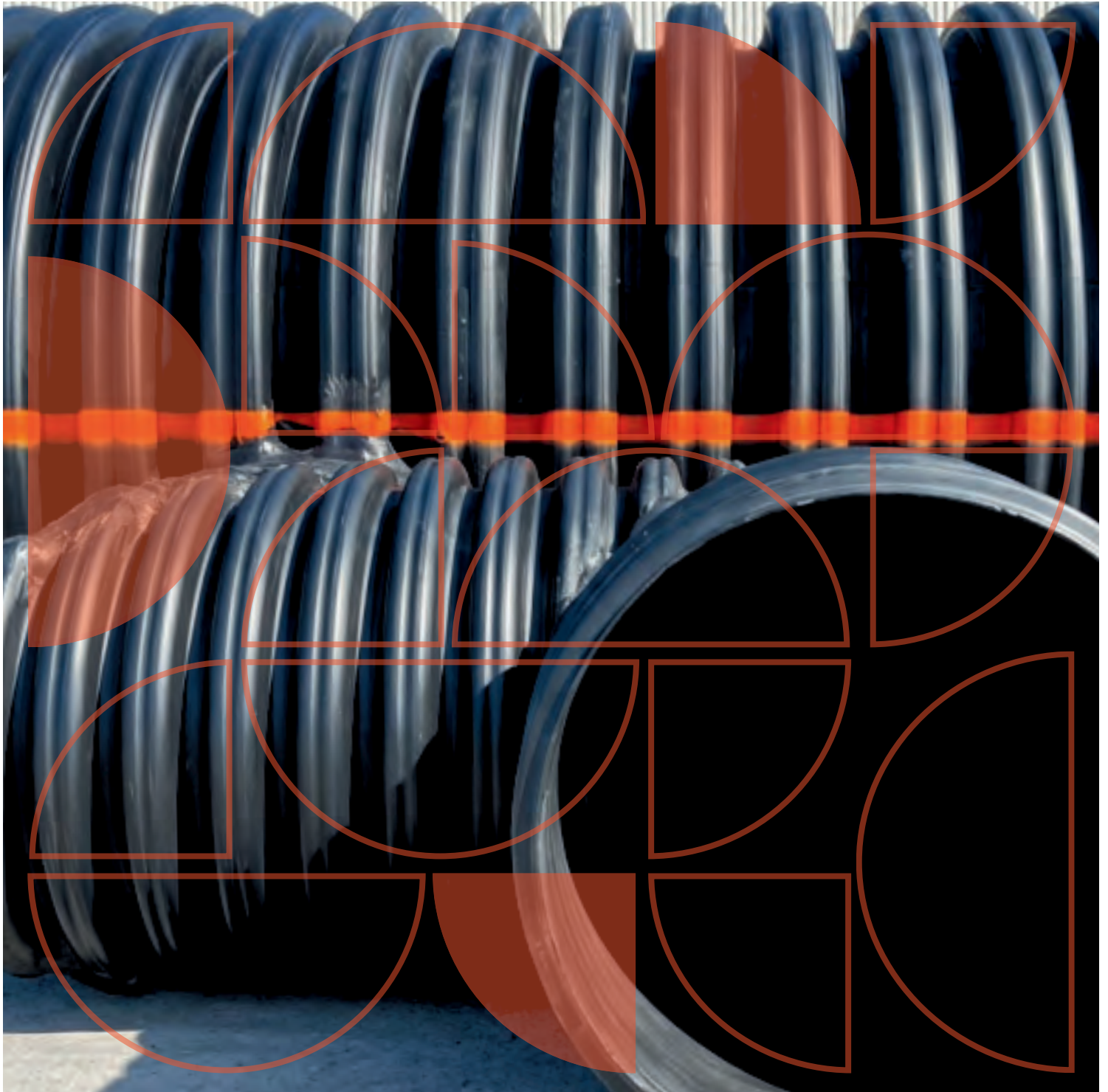


TDR BRID-JET®

WATER QUALITY UNIT



The TDR BRID-JET® is a water quality treatment device constructed of high-density polyethylene (HDPE) engineered to efficiently reduce stormwater pollution and improve particle separation from stormwater flows. It is designed for flexible connection configurations that adapt to various sewer network configurations and project requirements.

SCOPE

The TDR BRID-JET® is a specialized water quality treatment device manufactured from high-density polyethylene (HDPE) that directs stormwater flows between two manholes to achieve maximum pollutant removal efficiency.

Treatment Mechanism:

The device utilizes the principles of density differences and gravity-driven separation to remove suspended solids, floatable materials such as hydrocarbons, and floating debris from stormwater runoff, achieving greater than 80% pollutant removal under design conditions.

CHARACTERISTICS

- Custom-engineered design for simplified field installation and operation
- Flexible inlet and outlet configurations accommodating various connection angles
- Integrated bypass structure for management of high-flow storm events
- Compatible with standard sewer network configurations and installation methods
- Proprietary toothed internal structure (TDR Pipe® patented) to prevent resuspension of separated solids and maintain treatment efficiency
- Internal vortex element for enhanced particle separation and settling
- Vacuum relief mechanism for system performance optimization

APPLICABLE CURRENT STANDARDS

- ASTM C857 – Standard Test Method for Microscopy and Petrography of Hardened Concrete
- ASTM C858 – Standard Test Method for Water Loss from Concrete Cured in Air
- ASTM F2764 – Standard Practice for Testing Underground Pipeline Burst Prevention and Mitigation Devices
- ASTM D3350 – Standard Specification for Polyethylene Resins Used in Building and Construction Products
- ASTM F477 – Standard Specification for Elastomeric Seals (Gaskets) for Joining Concrete Pipe and Structures

PRESENTATION AND SPECIFICATIONS

Tank Configuration:

TDR BRID-JET® water quality treatment units feature a cylindrical tank constructed from corrugated high-density polyethylene (HDPE) available in internal diameters ranging from 24 inches (610 mm) to 60 inches (1,524 mm).

Standard Connection Configuration:

- Inlet Pipe: 10-inch (254 mm) spigot connection
- Outlet Pipe: 15-inch (381 mm) bell connection
- Alternative inlet and outlet pipe diameters available: 4 inches through 24 inches (102 mm through 610 mm)

Internal Components:

- Vortex Element: 20-inch (508 mm) diameter, positioned within the tank to enhance particle separation and settling
- Vacuum Relief Pipe: 25-inch (635 mm) length, positioned near the inlet connection for system pressure regulation and air relief during high-flow conditions

The modular design allows customization for specific project requirements and existing sewer network configurations..

FEATURES, BENEFITS, AND ADVANTAGES

Installation & Setup:

- Quick field installation due to pre-assembled internal components
- Flexible connection configurations adapt to existing sewer networks
- No complex field assembly required

Operation & Maintenance:

- Easy field adjustment of internal components for flow optimization
- Accessible internal design for routine sediment removal and maintenance
- Simplified inspection procedures through integral access ports

Durability & Performance:

- Extended product life through HDPE construction (resistant to corrosion, chemicals, and environmental degradation)
- Consistent long-term treatment performance due to proprietary internal separation geometry
- Maintenance-free internal operation when installed per specifications

