

Fusible PVC™ Pipe for Trenchless Applications

IPEX FUSIBLE™

**FUSIBLE BRUTE™
FUSIBLE SERIES™**



M U N I C I P A L S Y S T E M S

FUSIBLE PVC™ PIPE FOR HDD AND OTHER TRENCHLESS APPLICATIONS

- 100mm – 900mm (4" – 36")
CIOD & IPS Sizes
- 12.2m (40 ft) lengths

We build tough products for tough environments®



IPEX FUSIBLE™

GO TRENCHLESS WITH PVC™



IPEX has introduced new Fusible Brute™ and Fusible Series™ PVC pipes. By combining the

mechanical properties of PVC with a patented butt fusion process, IPEX provides the only available method of installing a continuous, monolithic, fully restrained PVC pipe system. Capable of being used in a variety of trenchless or conventional direct bury applications, Fusible PVC™ pipe systems have been installed at numerous sites throughout the United States, Canada and Mexico for both pressure and non-pressure installations in the water and sewer industries.

With PVC's proven long service life, Fusible Brute (CIOD) and Fusible Series (IPS) pipes are available in sizes ranging from 100mm (4") to 900mm (36") with larger sizes in development. The proprietary PVC patented fusion process as well as our licensing and training program allow for the consistent, reliable fusion of Fusible Brute and Fusible Series pipes to create piping systems of unparalleled strength.

The Fusion Process

Fusible Brute and Fusible Series PVC pipe have distinctive properties allowing for full strength butt fusion joints. While other thermoplastic materials have been fused routinely, the patented fusion process incorporates a proprietary PVC formulation and a

unique combination of heat, pressure and time, using slightly modified standard industry fusion machines.

All fusion times are comparable to other thermoplastic materials. All joints are fully restrained. Testing performed in accordance with ASTM D-638 methods, demonstrates that the tensile strength of the fused joint equals the tensile strength of the pipe.

Installation Methods:

- Horizontal Directional Drilling (HDD)
- Sliplining
- Pipe Bursting
- Direct Bury

Applications:

- Water Mains
- Sanitary Sewers
- Process and Raw Water
- Reclaimed Water
- Storm Drains

Pipe Specifications:

- Meets CSA B137.3, AWWA C900, AWWA C905, NSF-61 and ASTM cell classification 12454
- Available in CIOD and IPS sizes
- 12.2m (40') lengths



FUSIBLE BRUTE™
FUSIBLE SERIES™

PRESSURE RATINGS

FUSIBLE BRUTE™ (CIOD)

Dimension Ratio	Pressure (psi)
DR 14	305
DR 18	235
DR 25	165

FUSIBLE SERIES™ (IPS)

Dimension Ratio	Pressure (psi)
DR 21	200
DR 26	160

FEATURES & BENEFITS

- ✓ PVC is the most widely installed material in water systems today
- ✓ Greater pull force rating than HDPE
- ✓ Greater pull force rating than other PVC systems
- ✓ Reduced wall thickness relative to HDPE yields more flow and less material for given pressure class
- ✓ Lower installation costs versus HDPE due to lighter weight and reduced OD dimensions
- ✓ Creates gasket-free joints
- ✓ Has excellent abrasion and scratch-resistant properties
- ✓ Continuous pull-in lengths of over 1500 meters have been achieved

ADVANTAGES

- ◆ Higher flow rates
- ◆ Connect directly to existing PVC systems for material consistency
- ◆ Uses standard CIOD or IPS fittings
- ◆ Creates monolithic, fully-restrained pipe systems

PROJECTS

Central Experimental Farm, Ottawa, Ontario

573m (1,880 LF) of 300mm (12") DR18,
353m (1,158 LF) of 250mm (10") DR25,
170m (558 LF) of 450mm (14") DR25



Fusible PVC was chosen because of less disruption to federally protected land and forest. Also because of traffic control constraints.

Grosse Isle Watermain, Manitoba, Alberta

1,000m (3,281 LF) of 150mm (6") DR18,
3,000m (9,843 LF) of 150mm (6") DR25



Fusible PVC was chosen to minimize restoration costs.

Direct Bury, St-Henri-de-Tailion, Quebec

5,563.2m (18,252 LF) of 150mm (6") DR25,
10,614m (34,823 LF) of 200mm (8") DR25,
610m (2,001 LF) of 250mm (10") DR25



Fusible PVC was chosen for ease of installation and lower cost.

Slipline, Epcor 92nd St & 106a Ave, Edmonton, Alberta

85.4m (280 LF) of 400mm (16") DR25



DR25 Fusible Brute was chosen as it offered the optimal flow characteristics for that slipline.

For more information or to be included on our mailing list for new product announcements, complete this card and fax it back to us at (905) 403-1124.

Name

Title Dept.

Company

Address

City Province

Postal Code Phone

Fax E-mail

Company classification:

- Architect/Design Firm
- Builder/Developer
- Operator/Plant Maintenance
- Contractor
- Distributor/Wholesaler
- Engineering Firm
- Government
- OEM - Product(s) Manufactured: _____
- Utility
- Other: _____

Product interests:

- Trenchless Piping Systems
- PVC Pressure Systems
- PVC Sewer Systems
- Irrigation Systems
- Piping Systems for Water and Waste Water Treatment Plants
- Waste Water Treatment Systems
- Sewage Force Mains
- Service Pipe and Compression Fittings

Please forward information on:

- PVC Pressure System Design
- PVC Sewer System Design
- Surge Pressures in PVC
- Installation Guide
- Longevity of PVC
- Hydraulics of PVC Pipe
- How PVC compares to other materials

I would also like to know about other IPEX products:

- Plumbing and mechanical piping systems
- Electrical or telecommunications piping systems
- Irrigation piping systems
- Industrial piping systems

www.ipexinc.com

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www.ipexinc.com

About IPEX

IPEX is a leading supplier of thermoplastic piping systems. We provide our customers with one of the largest and most comprehensive product lines. All IPEX products are backed by over 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers, the IPEX name is synonymous with quality and performance.

Our products and systems have been designed for a broad range of customers and markets. Contact us for information on:

- Municipal pressure and gravity piping systems
- PE Electrofusion systems for gas and water
- PVC, CPVC, PP, PVCO, FR-PVDF, ABS, PEX and PE pipe and fittings (1/4" to 48")
- Industrial process piping systems
- Plumbing and mechanical piping systems
- Electrical systems
- Telecommunications and utility piping systems
- Irrigation systems
- Industrial, plumbing and electrical cements

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A policy of ongoing product improvement is maintained. This may result in modifications of features and/or specifications without notice.

