CORE LINEPIPE

Frequently Asked Questions

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INTRODUCTION TO CORE LINEPIPE®

CORE Linepipe® is a dual containment pipe-in-pipe pipeline system consisting of an outer carbon steel pressure pipe and an internal HDPE liner. The steel pipe provides structural strength and secondary containment, while the HDPE liner provides primary containment and corrosion resistance. This configuration provides continuous annular space for monitoring and leak detection and provides corrosion protection from flange to flange.

ANNULUS AND DUAL CONTAINMENT

A continuous annular space exists between the HDPE liner and the steel pipe. This allows permeated pressure to migrate to vent points and provides the ability to monitor the annulus for preventative leak detection.

BENDS AND RISERS

CORE Linepipe® can be field cold-bent or factory bent depending on project requirements. The minimum bend radius is 20D and bends greater than 30° are recommended to be completed in a controlled shop environment. Standard risers are commonly provided in 45° configurations.

BORING AND HORIZONTAL DIRECTIONAL DRILLING (HDD)

CORE Linepipe® is well suited for horizontal directional drilling (HDD) and road bore applications.
The pull head is attached to the factory end of the pipe and tensile limits depend on pipe size and product specification.

PRODUCT	MAXIMUM RECOMMENDED TENSILE FORCE (LBS)	kN
CL440 (4”)	90,000	401
CL640 (6”)	130,000	579
CL648 (6”)	160,000	713
CL671 (6”)	230,000	1,024
CL856 (8”)	190,000	846
CL1071 (10”)	380,000	1,692
CL1279 (12”)	510,000	2,271

CLICKWELD® PERFORMANCE

ClickWeld® is a proprietary mechanical joining system that eliminates the need for field welding. It forms a gas-tight and liquid-tight steel connection and significantly reduces installation time.

CONTRACTOR SUPPORT

Pipeline contractors typically perform ROW preparation, pipe hauling, stringing, bending, joint coating, lowering-in, and hydrotesting. CORE Service® technicians perform the ClickWeld® joining process and electrofusion of the HDPE liner unless contractors are certified through CORE training programs.

CORE SERVICE®

CORE Service® teams integrate with pipeline contractors to perform ClickWeld® joining and liner electrofusion operations using specialized field equipment.

CYCLIC SERVICE

CORE Linepipe® is suitable for cyclic pressure service due to the strength of the steel pipe and corrosion resistance provided by the HDPE liner.

DESIGN LIFE

The CORE Liner® system is designed for a minimum service life of 25 years when operated within design parameters.

ELECTROFUSION

Electrofusion fittings used in CORE Linepipe® provide significantly greater fusion area and strength compared to traditional butt fusion. The electrofusion control unit records voltage, current, temperature and fusion parameters, providing full traceability and quality control for every joint.

FIELD CUTS AND TIE-INS

Field cuts and tie-ins can be completed using CORE field press equipment, allowing pipes to be cut to length without requiring prefabricated pups.

HYDROTESTING

One hydrotest is required for the system. Hydrotesting is typically conducted to 1.25 times the maximum allowable operating pressure (MAOP) with a stable pressure hold period. A liner leak test may also be conducted by reducing pressure and monitoring for pressure stability.

JOINT LENGTH

Standard CORE Linepipe® joints are typically supplied in lengths of approximately 18.7 meters (62 feet).

REGULATORY COMPLIANCE

CORE Linepipe® systems are designed to comply with relevant pipeline standards including CSA Z662 and other applicable industry specifications.

RELIABILITY

As of Q1 2026, CORE has installed over 1,200 km across Canada and the USA with no reported environmental releases.

STUB-ENDS AND FLANGES

Flanges are installed using ClickWeld® connections and include HDPE stub-ends to maintain corrosion resistance through the connection.

STRINGING AND HANDLING

CORE Linepipe® is handled similarly to conventional steel pipe but with additional care to protect liner components and joint assemblies. Approved lifting methods include slings, vacuum lifts, or pipe handlers. Stringing hooks should not be used on pipe ends.

TEMPERATURE LIMITS

ClickWeld® and electrofusion processes can be performed in temperatures ranging from -30°C to +45°C. Weather conditions such as snow, rain and dust should be controlled to ensure proper joint quality.

VACUUM CONDITIONS

Vacuum conditions should generally be avoided for liner systems. However, CORE Linepipe® is significantly more resistant to collapse than conventional liner systems due to structural reinforcement from electrofusion fittings and engineered liner thickness.

VENTING AND MONITORING

Venting is required to manage pressure in the annular space between the steel pipe and HDPE liner. Vent spacing is determined during pipeline design and CORE engineering can assist with vent placement.

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