Installation and Handling of Spoolable Reinforced Plastic Line Pipe

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Installation and Handling of Spoolable Reinforced Plastic Line Pipe

1 Scope

This document establishes recommended practices for onshore installation and handling of spoolable reinforced plastic line pipe (API Specification 15S products) to prevent damage to pipe and field-fitting (couplings, connectors, and end fittings) in the field environment and to assure assembly integrity prior to use. This document covers handling, layout planning, and installation by direct bury (trench and backfill), surface lay, directional drilling, plowing, and pull-through methods. Post-installation inspection and field testing are also covered.

This recommended practice outlines and identifies the important items that should be considered by each manufacturer and installer in their detailed procedures. This document is not intended to serve as a procedure or checklist for the installation and handling of spoolable reinforced plastic line pipe products, nor is it inclusive of all items that may be required for the installation and handling of these products.

2 Normative References

The following referenced document is indispensable for the application of this document. The latest edition of the referenced document applies (including any addenda/errata).

API Specification 15S, *Specification for Spoolable Reinforced Plastic Line Pipe*

3 Terms, Definitions, Acronyms, and Abbreviations

3.1 Terms and Definitions

For the purposes of this document, the following terms and definitions apply.

3.1.1
adjacent pipe
Pipe attached to spoolable reinforced plastic line pipe using a connector.

NOTE The adjacent pipe can be metallic, spoolable composite, or another material.

3.1.2
connector
A device used to provide a leak-tight (except to intentionally vent gas) structural connection between the end fitting and adjacent pipe (e.g., bolted flanges, clamped hubs, and proprietary connectors).

3.1.3
coupling
A fitting developed for joining one section of spoolable pipe to another. (e.g., in-line connector, pipe-to-pipe).

3.1.4
cover
The protective outer sheath of the pipe (also known as “jacket” or “shield”).

3.1.5
end fitting
A mechanical device that forms the transition from the spoolable reinforced plastic line pipe to the connector.

3.1.6
end user
The entity that is responsible for pipeline operation.