Mechanical Interference Fit Connection

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Mechanical Interference Fit Connection

1 Scope

This standard contains information for the use of mechanical interference fit connections in the assembly process of API 5L pipe, after production by the pipe manufacturer. Mechanical interference fit connections, as considered within this standard, are to establish common aspects that can then be used by connection manufacturers and end users.

This standard provides fundamental guidance to educate the end users, connection manufacturers, and suppliers by identifying the critical features of the technology. This standard is intended for use by project engineers as they evaluate mechanical interference fit connections for pipeline applications and designs; it is not intended for use as an equipment-purchasing specification.

This standard does not prevent suppliers/manufacturers from offering alternative equipment or engineering solutions to users/purchasers. There can be additional requirements, beyond the information outlined in this standard, that may be needed for specific applications; this may be particularly applicable where there is innovative or developing technology.

2 Normative References

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any addenda) applies.

API Specification 5L, *Line Pipe*

3 Terms and Definitions

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

3.1
assembly
The fitting together of the prepared pipe ends into a complete structure.

3.2
assembly contractor
The party performing any connection operation, including subcontractors.

3.3
axial compression
The stress imposed on a body that tends to make it become shorter.

3.4
axial tension
The stress imposed on a body that tends to make it become longer.

3.5
company
The pipeline owner/operator.

3.6
connection manufacturer
Service provider that modifies pipe ends.