Recommended Practice for Flexible Pipe

API RECOMMENDED PRACTICE 17B
SIXTH EDITION, MAY 2024

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Recommended Practice for Flexible Pipe

1 Scope

API 17B provides guidelines for the design, analysis, manufacture, testing, installation, and operation of flexible pipes and flexible pipe systems for onshore, subsea, and marine applications. API 17B supplements API 17J and API 17K, which specify minimum requirements for the design, material selection, manufacture, testing, marking, and packaging of unbonded and bonded flexible pipes, respectively.

API 17B applies to flexible pipe assemblies, consisting of segments of flexible pipe body with end fittings attached to both ends. Both bonded and unbonded pipe types are covered. In addition, API 17B applies to flexible pipe systems and provides input to API 17L1 and API 17L2 coverage of ancillary equipment.

The applications covered by API 17B are sweet and sour service production, including export and injection applications. API 17B applies to both static and dynamic flexible pipe systems used as flowlines, risers, jumpers, downlines, and other temporary applications of flexible pipe. API 17B does cover, in general terms, the use of flexible pipes for offshore loading systems. Refer also to API 17K and OCIMF hose guide for offshore loading systems.

API 17B does not cover flexible pipes for use in choke and kill line (see API 16C or API 7K) or umbilical and control lines (see API 17E).

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

API Specification 17J, *Specification for Unbonded Flexible Pipe*, Fifth Edition

API Specification 17K, *Specification for Bonded Flexible Pipe*, Third Edition

NACE MR0175 [1]/ISO 15156 [2], *Petroleum and natural gas industries—Materials for use in H_2S-containing environments in oil and gas production—Part 1: General principles for selection of cracking-resistant materials*

3 Terms, Definitions, Acronyms, Abbreviations, and Symbols

3.1 Terms and Definitions

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

3.1.1
ancillary components
Components that are attached to the flexible pipe in order to perform one or more of the following functions:

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1 NACE International (now Association for Materials Protection and Performance), 15835 Park Ten Place, Houston, Texas 77084, www.ampp.org.

2 International Organization for Standardization, Chemin de Blandonnet 8, CP 401 - 1214 Vernier, Geneva, Switzerland, www.iso.org.