



BSI Standards Publication

Oil and gas industries including low carbon energy — Design and operation of subsea production systems

Part 1: General requirements and recommendations

This is a preview of BS EN ISO 13628-1:2025. [Click here to purchase the full version from the ANSI store.](#)

National foreword

This British Standard is the UK implementation of EN ISO 13628-1:2025. It is identical to ISO 13628-1:2025. It supersedes BS EN ISO 13628-1:2005+A1:2010, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PSE/17/-/4, Drilling and production equipment for petroleum and natural gas industries.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Oil and gas industries including low carbon energy - Design and operation of subsea production systems - Part 1: General requirements and recommendations (ISO 13628-1:2025)

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This European Standard was approved by CEN on 29 March 2024.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 13628-1:2025) has been prepared by Technical Committee ISO/TC 67 "Oil and gas industries including lower carbon energy" in collaboration with Technical Committee CEN/TC 12 "Oil and gas industries including lower carbon energy" the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2025, and conflicting national standards shall be withdrawn at the latest by August 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 13628-1:2005, EN ISO 13628-1:2005/A1:2010.

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Endorsement notice

The text of ISO 13628-1:2025 has been approved by CEN as EN ISO 13628-1:2025 without any modification.

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 67, *Oil and gas industries including lower carbon energy*, Subcommittee SC 4, *Drilling, production and injection equipment*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 12, *Oil and gas industries including lower carbon energy*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 13628-1:2005), which has been technically revised. It also incorporates the Amendment ISO 13628-1:2005/Amd 1:2010.

The main changes are as follows:

- ISO 13628-1 has been fully re-written compared to the 2005 edition of the document;
- ISO 13628-1 has been aligned with API RP 17A and is now a technically equivalent document.

A list of all parts in the ISO 13628 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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This document has been prepared to provide general requirements and recommendations for the user to the various areas requiring consideration during development of a subsea production system for the petroleum and natural gas industries. The requirements and guidance in this document are intended to complement engineering judgement and facilitate the decision process.

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Oil and gas industries including low carbon energy — Design and operation of subsea production systems —

Part 1: General requirements and recommendations

1 Scope

This document provides general requirements and recommendations for the development and operation of subsea production/injection systems, from the concept development phase to decommissioning and abandonment.

Flexible pipe standards form part of the API 17-series of documents (see [4.3.3](#)); however, this document (technically equivalent to API RP 17A 6th edition) does not generally cover flowlines/pipelines or production/injection risers (associated with flowlines/pipelines). These components form part of a complete subsea production system (SPS), as shown in [Figure 1](#).

2 Normative references

There are no normative references in this document.

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1.1

barrier

element forming part of a pressure-containing envelope that is designed to prevent unintentional flow of production/injected fluids, particularly to the external environment

3.1.2

factory acceptance test

FAT

test conducted to verify that the specified requirements for a product have been fulfilled

3.1.3

first article

first of a product produced using the “normal processes” as will be used to make multiple numbers of the same product

EXAMPLE The first of a new design of SCM manufactured on a production line and intended for use in the field.

Note 1 to entry: As distinct from a prototype, a first article should accurately represent all aspects and functionality of the production-model product.