

Second edition
2005-11-15

Petroleum and natural gas industries — Design and operation of subsea production systems —

Part 1: General requirements and recommendations

*Industries du pétrole et du gaz naturel — Conception et exploitation des
systèmes de production immergés —*

Partie 1: Exigences générales et recommandations



Reference number
ISO 13628-1:2005(E)

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Published in Switzerland

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Contents

Page

Foreword.....	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviations	2
3.1 Terms and definitions.....	2
3.2 Abbreviated terms	3
4 Systems and interface descriptions	6
4.1 General.....	6
4.2 System description.....	7
4.3 Subsystem interfaces.....	9
5 Design	9
5.1 General.....	9
5.2 Design criteria	9
5.3 Field development	13
5.4 Design loads.....	14
5.5 System design.....	14
5.6 Subsea wellhead	17
5.7 Tubing hanger/tree system.....	21
5.8 Completion/workover riser system.....	24
5.9 Mudline casing suspension system	24
5.10 Production controls.....	25
5.11 Flowlines and end connections	26
5.12 Template and manifold systems	34
5.13 Production risers	40
5.14 ROV/ROT intervention systems	41
5.15 Colours and marking.....	41
6 Materials and corrosion protection.....	42
6.1 Material evaluation.....	42
6.2 Metallic materials	42
6.3 Non-metallic materials.....	44
6.4 Bolting materials for subsea applications	45
6.5 External corrosion protection	46
6.6 Design limitations for materials	46
7 Manufacturing and testing.....	48
7.1 General requirements and recommendations	48
7.2 Test procedures	48
7.3 Integration testing.....	49
8 Operations	50
8.1 General.....	50
8.2 Transportation and handling	50
8.3 Installation	51
8.4 Drilling and completion	52
8.5 Hook-up and commissioning	53
8.6 Well intervention	58
8.7 Maintenance	59
8.8 Decommissioning	61

This is a preview of "ISO 13628-1:2005". [Click here to purchase the full version from the ANSI store.](#)

9	Documentation	62	
9.1	General	62	
9.2	Engineering and manufacturing	62	
9.3	Operating and maintenance	63	
9.4	As-built/as-installed documentation	63	
Annex A (informative) Description of subsea production systems			64
Annex B (normative) Colours and marking			163
Annex C (informative) Integration testing of subsea production equipment			170
Annex D (informative) Typical procedures for commissioning			175
Annex E (informative) Documentation for operation			179
Annex F (informative) Datasheets			184
Annex G (informative) Structures, process valves and piping			191
Annex H (informative) System engineering in subsea field developments			194
Annex I (informative) Flow assurance considerations			196
Annex J (informative) Barrier philosophy considerations			223
Annex K (normative) Requirements and recommendations for lifting devices and unpressurized structural components			227
Bibliography			231

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 13628-1 was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*, Subcommittee SC 4, *Drilling and production equipment*.

This second edition cancels and replaces the first edition (ISO 13628-1:1999), which has been technically revised.

ISO 13628 consists of the following parts, under the general title *Petroleum and natural gas industries — Design and operation of subsea production systems*:

- *Part 1: General requirements and recommendations*
- *Part 2: Flexible pipe systems for subsea and marine applications* ¹⁾
- *Part 3: Through flowline (TFL) systems*
- *Part 4: Subsea wellhead and tree equipment*
- *Part 5: Subsea umbilicals*
- *Part 6: Subsea production control systems*
- *Part 8: Remotely Operated Vehicle (ROV) interfaces on subsea production systems*
- *Part 9: Remotely Operated Tool (ROT) intervention systems*

The following parts are under preparation:

- *Part 7: Completion/workover riser systems*
- *Part 10: Specification for bonded flexible pipe*
- *Part 11: Flexible pipe systems for subsea and marine applications*

1) Under revision.

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Introduction

This part of ISO 13628 has been prepared to provide general requirements, recommendations and overall guidance for the user to the various areas requiring consideration during development of a subsea production system for the petroleum and natural gas industries. The functional requirements defined in this part of ISO 13628 will allow alternatives in order to suit specific field requirements. The intention is to facilitate and complement the decision process rather than to replace individual engineering judgement and, where requirements are non-mandatory, to provide positive guidance for the selection of an optimum solution.