
**Petroleum and natural gas industries —
Drilling and production equipment —
Drilling and well-servicing structures**

*Industries du pétrole et du gaz naturel — Équipement de forage et de
production — Structures de forage et d'entretien des puits*



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Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Product specification levels	4
5 Marking and information	4
5.1 Nameplate	4
5.2 Derrick and mast nameplate information	4
5.3 Substructure nameplate information	5
5.4 Crown block assembly nameplate information (required only for crown block assemblies for use with derricks)	6
6 Standard ratings	6
6.1 General	6
6.2 Derrick — Stationary base	6
6.3 Mast with guy lines	6
6.4 Mast without guy lines	7
6.5 Derrick and mast under dynamic conditions	7
6.6 Substructure	7
6.7 Substructure under dynamic conditions	7
6.8 Crown block assembly	8
7 Design loading	8
7.1 General	8
7.2 Derrick (stationary base)	8
7.3 Mast with guy lines	9
7.4 Mast without guy lines	10
7.5 Derrick and mast under dynamic conditions	10
7.6 Substructure	11
7.7 Substructure under dynamic conditions	11
7.8 Guide tracks and dollies	11
7.9 Crown block assemblies	11
8 Design specification	11
8.1 Allowable stresses	11
8.2 Wind	12
8.3 Dynamic loading (induced by floating hull motion)	15
8.4 Earthquake	16
8.5 Design verification	16
9 Materials	16
9.1 General	16
9.2 Written specifications	17
9.3 Mechanical properties	17
9.4 Material qualification	17
9.5 Material manufacture	17
9.6 Bolts	17
9.7 Wire rope	17
10 Welding requirements	18
10.1 General	18

10.2	Welding qualifications	18
10.3	Written documentation	18
10.4	Control of consumables	18
10.5	Weld properties	18
10.6	Post-weld heat treatment.....	18
10.7	Quality control requirements	18
10.8	Specific requirement — repair welds	19
11	Quality control	19
11.1	General	19
11.2	Quality control personnel qualifications	19
11.3	Measuring and test equipment	19
11.4	Non-destructive examination	20
11.5	Dimensional verification.....	21
11.6	Workmanship and finishing	21
11.7	Purchaser's inspection and rejection	21
11.8	Testing	22
11.9	Traceability.....	22
12	Documentation	23
12.1	General	23
12.2	Documentation to be kept by the manufacturer	23
12.3	Documentation to be delivered with equipment	24
Annex A (normative)	Supplementary requirements.....	25
Annex B (normative)	Standard derricks	27
Bibliography.....		31

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 13626 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*.

Introduction

This International Standard is based on API Spec 4F, second edition, June 1995.

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Petroleum and natural gas industries — Drilling and production equipment — Drilling and well-servicing structures

1 Scope

This International Standard specifies requirements and gives recommendations for suitable steel structures for drilling and well-servicing operations in the petroleum industry, provides a uniform method of rating the structures, and provides two product specification levels.

This International Standard is applicable to all new designs of all standard steel derricks, special steel derricks, portable masts and substructures.

Annex A provides a number of standard supplementary requirements which apply only if specified by the purchaser.

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.

ISO 9712, *Non-destructive testing — Qualification and certification of personnel*

ISO 13535, *Petroleum and natural gas industries — Drilling and production equipment — Hoisting equipment*

ISO 10425, *Steel wire ropes for the petroleum and natural gas industries — Minimum requirements and terms of acceptance*

AISC¹⁾ 335, 1989, *Specification for structural steel buildings, allowable stress design and plastic design*

API²⁾ RP 2A-WSD, *Recommended Practice for Planning, Designing and Constructing Fixed Offshore Platforms — Working Stress Design*

API Spec 8A, *Specification for Drilling and Production Hoisting Equipment*

API RP 9B, *Recommended Practice on Application, Care and Use of Wire Rope for Oilfield Service*

ASTM³⁾ A 370, *Standard Test Methods and Definitions for Mechanical Testing of Steel Products*

ASTM A 578/A 578M, *Standard Specification for Straight-Beam Ultrasonic Examination of Plain and Clad Steel Plates for Special Applications*

AWS⁴⁾ D1.1/D1.1M:2002, *Structural Welding Code — Steel*

1) American Institute of Steel Construction, 1 East Wacker Drive, Suite 3100, Chicago, Illinois 60601.

2) American Petroleum Institute, 1220 L Street, Northwest, Washington, DC 20005-4070.

3) American Society for Testing and Materials, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, Pennsylvania 19428-2959.

4) American Welding Society, Incorporated, 550 Northwest LeJeune Road, Box 351040, Miami, Florida 33135.