If you have any questions or comments regarding API standards, please visit www.api.org/standards.

NOTE  Free publications with an asterisk are subject to a $10.00 handling charge for each total order, plus actual shipping charges.

GENERAL: OIL FIELD EQUIPMENT AND MATERIALS

The API Composite List

This is a directory of companies licensed to use the API Monogram and APIQR Registration Mark. This directory also lists the companies who have registered Perforator Designs with API. It provides an alphabetical list of approximately 1,400 manufacturers licensed (at the time of publication) to mark their products with the API Monogram. It also contains a classified listing (by specific API specification) of these licensed manufacturers, as well as over 200 APIQR ISO 9000 registered firms. This directory was developed to assist those individuals desiring to purchase products and services meeting API specifications from companies whose quality systems and capabilities are verified by API’s Quality Programs. It is updated and published quarterly.
A searchable on-line version of the composite list is updated weekly and can be found at www.api.org/compositelist.

Free*

Spec Q1 *

Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry

(includes Errata 1 dated February 2014 and Errata 2 dated March 2014)
Defines the minimum quality management system requirements for organizations that manufacture products or provide manufacturing-related processes under a product specification for use in the petroleum and natural gas industry. This specification identifies requirements of a quality management system for an organization to demonstrate its ability to consistently provide reliable products and manufacturing-related processes that meet customer and legal requirements. This specification identifies requirements of a quality management system for an organization to demonstrate its ability to consistently provide reliable products and manufacturing-related processes that meet customer and legal requirements. The quality management system requirements specified in this specification are in alignment with the clause requirements and format of ISO 9000.

9th Edition  |  June 2013  |  Effective Date: June 1, 2014
Product Number: G0Q109  |  Price: $120.00
You may access Spec Q1 in a read-only platform: publications.api.org

Spec Q1 *

Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry—Chinese

Chinese translation of Spec Q1.
9th Edition  |  June 2013  |  Product Number: G0Q109C  |  Price: $84.00

Spec Q1 *

Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry—Portuguese

Portuguese translation of Spec Q1.
9th Edition  |  June 2013  |  Product Number: G0Q109P  |  Price: $120.00

Spec Q1 *

Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry—Russian

Russian translation of Spec Q1.
9th Edition  |  June 2013  |  Product Number: G0Q109R  |  Price: $96.00

Spec Q2 *

Specification for Quality Management System Requirements for Service Supply Organizations for the Petroleum and Natural Gas Industries—Chinese

Chinese translation of Spec Q2.
1st Edition  |  December 2011  |  Product Number: G0Q201C  |  Price: $56.00

Spec Q2 *

Specification for Quality Management System Requirements for Service Supply Organization for the Petroleum and Natural Gas Industries—Portuguese

Portuguese translation of Spec Q2.
1st Edition  |  December 2011  |  Product Number: G0Q201P  |  Price: $80.00

Spec Q2 *

Specification for Quality Management System Requirements for Service Supply Organization for the Petroleum and Natural Gas Industries—Spanish

Spanish translation of Spec Q2.
1st Edition  |  December 2011  |  Product Number: G0Q201SP  |  Price: $80.00

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersedethe English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
OFFSHORE STRUCTURES

RP 1FSC Facilities Systems Completion Planning and Execution

Applies to a wide variety of projects within the oil and gas industry excluding subsurface. Although intended for oil and gas industry, the process described in this document can be applied to other industries as well. It is intended that the processes and practices established herein can be adapted and applied from a single piece of tagged equipment to a complex petrochemical facility. The process described is intended to be applied at a system level. The systems completion process is the sequential activities within a project that verify and prove the construction, installation, integration, testing, and preparation of systems have been completed as designed, and thus, the facility is ready for start-up and operations. The systems completion process is designed to help prepare and manage the transfer of care, custody, and control of facilities under construction through appropriate certification and documentation, such that the details of progress are evident. Pages: 11

1st Edition | March 2013 | Product Number: G1FSC01 | Price: $60.00

TR 1PER15K-1 Protocol for Verification and Validation of High-Pressure High-Temperature Equipment

Focuses on an evaluation process for HPHT equipment in the petroleum and natural gas industries which includes design verification analysis, design validation, material selection considerations, and manufacturing process verification testing, to ensure the equipment is fit-for-service in the applicable HPHT environment, where HPHT environments are intended to mean one or more of the following well conditions exist:

- the completion of the well requires completion equipment or well control equipment assigned a pressure rating greater than 15,000 psig or a temperature rating greater than 350 °F;
- the maximum anticipated surface pressure or shut-in tubing pressure is greater than 15,000 psig on the seafloor for a well with a subssea wellhead or at the surface for a well with a surface wellhead; or
- the flowing temperature is greater than 350 °F on the seafloor for a well with a surface wellhead or on the surface for a well with a surface wellhead.

The design verification and validation protocols in this report should be used as a guide by the various APIs standards committees to develop future documents on equipment specifications for HPHT service. This report is not intended to replace existing API equipment specifications, but to supplement them by illustrating accepted practices and principles that may be considered in order to maintain the safety and integrity of the equipment. This report is intended to apply to the following equipment: wellheads, tubing heads, tubulars, packers, connections, seals, seal assemblies, production trees, chokes, and well control equipment. It may be used for other equipment in HPHT service. Pages: 90

1st Edition | March 2013 | Product Number: G1PER15K11 | Price: $147.00

Spec 2B Specification for the Fabrication of Structural Steel Pipe

Covers the fabrication of structural steel pipe formed from plate steel with longitudinal and circumferential butt-welded seams. Pipe is typically in sizes of 14 in. outside diameter and greater, with a wall thickness of 3/8 in. and greater (up to a nominal 40 ft in length), and is suitable for use in construction of welded offshore structures. The use of the ERW process or spiral welded pipe is not included in this specification. Pipe fabricated under this specification is intended to be used primarily in piling and main structural members, including tubular truss connections, where internal stiffeners are not usually required. Pages: 8

Product Number: G02B06 | Price: $83.00

Spec 2B Chinese translation of Spec 2B.

6th Edition | July 2001 | Product Number: G02B06C | Price: $59.00

Spec 2C Offshore Pedestal-Mounted Cranes (includes Errata 1 dated March 2013)

Provides requirements for design, construction, and testing of offshore pedestal mounted cranes. Offshore cranes are defined in this specification as pedestal mounted elevating and rotating lift devices for transfer of materials or personnel to or from marine vessels and structures. Offshore cranes are typically mounted on a fixed (bottom supported) or floating platform structure used in drilling and production operations. API Spec 2C is not intended to be used for the design, fabrication, and testing of davits and/or emergency escape devices. API Spec 2C is also not intended to be used for shipboard cranes or heavy lift cranes. Pages: 124

7th Edition | March 2012 | Effective Date: October 1, 2012
Product Number: G02C07 | Price: $143.00
You may access Spec 2C in a read-only platform: publications.api.org

Spec 2C Chinese translation of Spec 2C.

7th Edition | March 2012 | Product Number: G02C07C | Price: $101.00

Spec 2C Kazakh translation of Spec 2C.

7th Edition | March 2012 | Product Number: G02C07K | Price: $115.00

Spec 2D Operation and Maintenance of Offshore Cranes

Intended to serve as a guide to crane owners and operators in developing operating and maintenance practices and procedures for use in the safe operation of pedestal-mounted revolving cranes on fixed or floating offshore platforms, jackup drilling rigs, semi-submersible drilling rigs and other types of mobile offshore drilling units (MODUs). Guidelines are also given for the pre-use inspection and testing of temporary cranes (also called self-elevating, leaping or bootstrap cranes) that are erected offshore. Equipment (e.g. davits, launch frames) used only for launching life-saving appliances (life boats or life rafts) are not included in the scope of this document. Pages: 120

7th Edition | December 2014 | Product Number: G02D07 | Price: $145.00
You may access RP 2D in a read-only platform: publications.api.org

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
Seismic Design Procedures and Criteria for Offshore Structures

Contains requirements for defining the seismic design procedures and criteria for offshore structures and is a modified adoption of ISO 19901-2. The intent of the modification is to map the requirements of ISO 19901-2 to the United States' continental shelf (U.S. OCS). The requirements are applicable to fixed steel structures and fixed concrete structures. The effects of seismic events on floating structures and partially buoyant structures are also briefly discussed. The site-specific assessment of jack-ups in elevated condition is only covered to the extent that the requirements are applicable.

This document defines the seismic requirements for new construction of structures in accordance with API 2A-WSD, 22nd Edition and later. Earlier editions of API 2A-WSD are not applicable. Only earthquake-induced ground motions are addressed in detail. Other geologically induced hazards such as liquefaction, slope instability, faults, tsunamis, mud volcanoes, and shock waves are mentioned and briefly discussed. The requirements are intended to reduce risks to persons, the environment, and assets to the lowest levels that are reasonably practicable. Pages: 54

1st Edition | November 2014 | Product Number: G62EQ01 | Price: $125.00

Spec 2F

Specification for Mooring Chain

Covers flash-welded chain and forged center connecting links used for mooring of offshore floating vessels such as drilling vessels, pipe lay barges, derrick barges, and storage tankers. Pages: 16

Product Number: G62F06 | Price: $89.00

Spec 2F *

Specification for Mooring Chain—Chinese

Chinese translation of Spec 2F.


RP 2FB

Recommended Practice for Design of Offshore Facilities Against Fire and Blast Loading

Provides an assessment process for the consideration of fire and blast in the design of offshore structures and includes guidance and examples for setting performance criteria. This document complements the contents of Section 18 of API RP 2A-WSD, 21st Edition with more comprehensive guidance in design of both fixed and floating offshore structures against fire and blast loading. Guidance on the implementation of safety and environmental management practices and hazard identification, event definition and risk assessment can be found in API RP 75 and the API RP 14 series. The intent of these documents is identified and emphasis throughout, as structural engineers need to work closely with facilities engineers experienced in performing hazard analysis as described in API RP 14J, and with the operator's safety management system as described in API RP 75. Pages: 63

1st Edition | April 2006 | Reaffirmed: January 2012
Product Number: G62FB01 | Price: $157.00

RP 2FPS

Planning, Designing, and Constructing Floating Production Systems

Provides guidelines for design, fabrication, installation, inspection, and operation of floating production systems (FPSs). A FPS may be designed with the capability of one or more stages of hydrocarbon processing, as well as drilling, well workover, production storage, and export. This document addresses only floating systems where a buoyant hull of some form supports the deck, production, and other systems. Bottom-fixed components, such as self-supporting risers, and station keeping systems, such as turret mooring, catenary anchor leg mooring (CALM), single anchor leg Mooring (SALM), etc. are considered as ancillary components and are addressed in more detail in other API recommended practices. Pages: 191

2nd Edition | October 2011 | Product Number: G2FPS02 | Price: $186.00
You may access RP 2FPS in a read-only platform: publications.api.org

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersedes the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.

Fax Orders: 303-397-2740

Online Orders: www.global.ihs.com

RP 2GEO/ISO 19901-2:2004

Seismic Design Procedures and Criteria for Offshore Structures

Contains requirements and recommendations for those aspects of geoscience and foundation engineering that are applicable to a broad range of offshore structures, rather than to a particular structure type. Such aspects are site characterization, soil and rock characterization, design and installation of foundations supported by the seabed (shallow foundations), identification of hazards, and design of pile foundations.

Aspects of soil mechanics and foundation engineering that apply equally to offshore and onshore structures are not addressed. The user of this document is expected to be familiar with such aspects. Pages: 103

1st Edition | April 2011 | Product Number: G62GEO01 | Price: $154.00

Spec 2H

Specification for Carbon Manganese Steel Plate for Offshore Structures

Covers two grades of intermediate strength steel plates up to 4 in. thick for use in welded construction of offshore structures, in selected critical portions which must resist impact, plastic fatigue loading, and lamellar tearing. These steels are intended for fabrication primarily by cold forming and welding as per API Spec 2B. The welding procedure is of fundamental importance and it is presumed that procedures will be suitable for the steels and their intended service. Conversely, the steels should be amenable to fabrication and welding under shipyard and offshore conditions. Pages: 24

9th Edition | July 2006 | Effective Date: February 1, 2007
Reaffirmed: January 2012 | Product Number: G02H09 | Price: $94.00

Bull 2HINS

Guidance for Post-Hurricane Structural Inspection of Offshore Structures

Provides guidance for above- and below-water post-hurricane structural inspections of fixed and floating structures in the Gulf of Mexico. The goal of these special inspections is to determine if a structure sustained hurricane-induced damage that affects the safety of personnel, the primary structural integrity of the asset, or its ability to perform the purpose for which it was intended. This document should be used in conjunction with the applicable API RPs for the structure as well as any structure specific owner or regulatory requirements. Pages: 16

1st Edition | May 2009 | Product Number: G2HINS01 | Price: $83.00

RP 2I

In-Service Inspection of Mooring Hardware for Floating Structures

Provides guidelines for inspecting mooring components of mobile offshore drilling units (MODUs) and permanent floating installations. This edition includes:

- inspection guidelines for steel permanent moorings on permanent floating installations are added;
- inspection guidelines for fiber ropes used for permanent and MODU moorings are included;
- special guidance for MODU mooring inspection in the areas of tropical cyclone is provided.

Although this recommended practice was developed for the primary moorings of MODUs and permanent floating installations, some of the guidelines may be applicable to moorings of other floating vessels such as pipe-laying barges and construction vessels. Also some of the guidelines may be applicable to secondary or emergency moorings such as mooring for jack-up units, shuttle tanker mooring, and dynamic positioning (DP) vessel harbor mooring. The applicability of this document to other floating vessels and moorings is left to the discretion of the user. Pages: 73

3rd Edition | April 2008 | Product Number: G02I03 | Price: $148.00
You may access RP 2I in a read-only platform: publications.api.org

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersedes the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
RP 2L
Recommended Practice for Planning, Designing and Constructing Heliports for Fixed Offshore Platforms
Provides a guide for planning, designing, and constructing heliports for fixed offshore platforms. It includes operational consideration guidelines, design load criteria, heliport size and marking recommendations, and other heliport design recommendations. Pages: 14
4th Edition | May 1996 | Effective Date: June 1, 1996
Reaffirmed: January 2012 | Product Number: G02L04 | Price: $83.00

RP 2MET/ISO 19901-1:2006 ■
Deprivation of Metocean Design and Operating Conditions
Contains general requirements for the determination and use of meteorological and oceanographic (metocean) conditions for the design, construction, and operation of offshore structures in the petroleum and natural gas industries.
The requirements are divided into two broad types:
• those that relate to the determination of environmental conditions in general, together with the metocean parameters that are required to adequately describe them;
• those that relate to the characterization and use of metocean parameters for the design, the construction activities or the operation of offshore structures.
The environmental conditions and metocean parameters discussed in this document comprise the following:
• extreme and abnormal values of metocean parameters that recur with given return periods that are considerably longer than the design service life of the structure,
• long-term distributions of metocean parameters, in the form of cumulative, conditional, marginal, or joint statistics of metocean parameters, and
• normal environmental conditions that are expected to occur frequently during the design service life of the structure.
Metocean parameters are applicable to
• the determination of actions and action effects for the design of new structures,
• the determination of actions and action effects for the assessment of existing structures,
• the site-specific assessment of mobile offshore units,
• the determination of limiting environmental conditions, weather windows, actions and action effects for pre-service and post-service situations (i.e. fabrication, transportation, and installation or decommissioning and removal of a structure), and
• the operation of the platform, where appropriate. Pages: 168
1st Edition | November 2014 | Product Number: GG2MET01 | Price: $200.00

RP 2MOP/ISO 19901-6:2009
Marine Operations
Provides requirements and guidance for the planning and engineering of marine operations, encompassing the design and analysis of the components, systems, equipment, and procedures required to perform marine operations, as well as the methods or procedures developed to carry them out safely. This document is also applicable to modifications of existing structures, e.g. installation of additional topsides modules.
This edition of API RP 2MOP is the identical national adoption of ISO 19901-6:2009. Pages: 168
1st Edition | July 2010 | Product Number: GG2MOP1 | Price: $243.00

Spec 2MT1 ◆
Specification for Carbon Manganese Steel Plate with Improved Toughness for Offshore Structures
Covers one grade of intermediate strength steel plates for use in welded construction of offshore structures. These steels are intended for fabrication primarily by cold forming and welding as per API Spec 2B. The primary use of these steels is for Class “B” applications as defined in API Spec 2A. API Specs 2H, 2W, and 2Y cover other steels providing improved mechanical properties and toughness for Class “A” applications and should be used where substantial z-direction stresses are expected. Pages: 6
2nd Edition | September 2001 | Effective Date: March 1, 2002
Reaffirmed: January 2012 | Product Number: G2M712 | Price: $83.00

Spec 2MT2 ◆
Rolled Shapes with Improved Notch Toughness
Covers rolled shapes (wide flange shapes, angles, etc.), having a specified minimum yield strength of 50 ksi (345 Mpa), intended for use in offshore structures. Commonly available Class A, Class B, and Class C beams refer to degrees of fracture criticality as described in API RP 2A-WSD, with Class C being for the least critical applications. For special critical applications, Class AAZ shapes may be specified, by agreement, using Supplement S101. Pages: 8
1st Edition | June 2002 | Effective Date: December 1, 2002
Reaffirmed: October 2010 | Product Number: G2M721 | Price: $79.00

RP 2N
Recommended Practice for Planning, Designing, and Constructing Structures and Pipelines for Arctic Conditions
(Includes Errata dated December 2009)
Contains considerations that are unique for planning, designing, and constructing Arctic systems. Used with other applicable codes and standards like API RP 2A or RP 1111, this recommended practice provides guidance to those involved in the design of Arctic systems. The systems covered in this recommended practice for the Arctic environment include:
• offshore concrete, steel, and hybrid structures, sand islands, and gravel islands used as platforms for exploration drilling or production;
• offshore ice islands used as platforms for exploration drilling;
• near shore causeways;
• offshore pipelines;
• shore crossings for pipelines. Pages: 82
Product Number: G02N02 | Price: $142.00

Std 2RD
Dynamic Risers for Floating Production Systems
Addresses structural analysis procedures, design guidelines, component selection criteria, and typical designs for all new riser systems used on FPSs. Guidance is also given for developing load information for the equipment attached to the ends of the risers. The recommended practice for structural design of risers, as reflected in this document, is generally based on the principles of limiting stresses in the risers and related components under normal, extreme, and accidental conditions. This document assumes that the risers will be made of steel or titanium pipe or unbonded flexible pipe. However, other materials, such as aluminum, are not excluded if risers built using these materials can be shown to be fit for purpose. Design considerations for unbonded flexible pipe are included primarily by reference to API RP 17B and API Spec 17J. Pages: 81
2nd Edition | September 2013 | Product Number: G2RD02 | Price: $245.00
You may access RP 2RD in a read-only platform: publications.api.org

Bull 2S
Design of Windlass Wildcats for Floating Offshore Structures
Covers the design of windlass wildcats to ensure proper fit and function between wildcat and mooring chain. Wildcats are of the five-wheel type for use with studlink anchor chain conforming to the classification society Grades 1, 2, and 3, ORQ and Grade 4 chain. Wildcat dimensions are provided for chains in integral 1/8 in. (3 mm) steps, ranging in size from 2 in. to 4 in. (51 mm to 102 mm). Wildcat dimensions for chain in intermediate 1/16 in. (1.5 mm) steps are not provided, but wildcats in these sizes are permitted within the scope of this publication. Pages: 7
Product Number: G02S02 | Price: $76.00
Spec 2SC ◆
Manufacture of Structural Steel Castings for Primary Offshore Applications

Castings manufactured to this specification are intended for use in the fabrication of offshore structures, marine risers, TLP tendons and pipelines, or other system components intended for application on permanent offshore structures, or for components used in the construction of offshore tendons, risers and pipelines. This specification defines the minimum requirements for manufacture, testing, and inspection of carbon and low-alloy steel forgings, including extrusions and heavy-wall seamless tubular product, grades 345 N/mm² to 586 N/mm² (50 ksi to 85 ksi) for use in primary steel applications. Service categories A, B, and C (SCA, SCB, and SCC) reflect forging geometry and method of incorporation into the overall system, rather than levels of criticality. They may also be designated by the user (purchaser) to reflect moderately different but standardized levels of performance. Pages: 26

1st Edition | August 2013 | Product Number: G2SC01 | Price: $114.00

Spec 2SF ◆
Manufacture of Structural Steel Forgings for Primary Offshore Applications

Forgings manufactured to this specification are intended for use in the fabrication of offshore structures, marine risers, TLP tendons and pipelines, or other system components intended for application on permanent offshore structures. This specification defines the minimum requirements for manufacture, testing, and inspection of carbon and low-alloy steel forgings, including extrusions and heavy-wall seamless tubular product, grades 345 N/mm² to 586 N/mm² (50 ksi to 85 ksi) for use in primary steel applications. Service categories A, B, and C (SCA, SCB, and SCC) reflect forging geometry and method of incorporation into the overall system, rather than levels of criticality. They may also be designated by the user (purchaser) to reflect moderately different but standardized levels of performance. Pages: 26

1st Edition | September 2009 | Effective Date: March 1, 2010 | Product Number: G2SF01 | Price: $85.00

RP 2SM ◆
Design, Manufacture, Installation, and Maintenance of Synthetic Fiber Ropes for Offshore Mooring

Covers the design, manufacture, and installation of synthetic fiber ropes to include the design and analysis considerations of mooring systems, design criteria for mooring components, rope design and testing, quality assurance, and in-service maintenance and inspection. This document applies to synthetic fiber ropes used in the form of taut leg or catenary moorings for both permanent and temporary offshore installations such as:

- monohull-based floating production, storage, and offloading units (FPSOs);
- monohull-based floating storage units (FSOs, FSUs);
- monohull or semi-submersible based floating production units (FPUs, FPSs);
- mobile offshore drilling units (MODUs);
- spar platforms;
- catenary anchor leg mooring (CALM) buoys;
- mobile offshore units. Pages: 108

2nd Edition | July 2014 | Product Number: G2SM02 | Price: $185.00
You may access RP 2SM in a read-only platform: publications.api.org

RP 2T
Planning, Designing and Constructing Tension Leg Platforms

Contains a guide to the designer in organizing an efficient approach to the design of a tension leg platform (TLP). Emphasis is placed on participation of all engineering disciplines during each stage of planning, development, design, construction, installation, and inspection. This publication contains guidelines developed from the latest practices in designing tension leg platforms and are adapted from successful techniques employed for related structural systems in the offshore and marine industries. Pages: 254

3rd Edition | July 2010 | Product Number: G02T03 | Price: $227.00
You may access RP 2T in a read-only platform: publications.api.org

Bull 2TD
Guidelines for Tie-Downs on Offshore Production Facilities for Hurricane Season

Addresses the need to evaluate the tie-downs in use on offshore production facilities for drilling rigs, permanent equipment, and facilities such as quais, helidecks, etc. The information contained in this document is presented as recommendations to improve tie-down performance during hurricanes. Bull 2TD also addresses situations where failure of a drilling or worker rig would result in significant damage to the platform or adjacent infrastructure. Pages: 3

1st Edition | June 2006 | Product Number: G2TD01 | Price: $51.00

Bull 2U
Bulletin on Stability Design of Cylindrical Shells

Contains semi-empirical formulations for evaluating buckling strength of stiffened and unstiffened cylindrical shells. Pages: 146

3rd Edition | June 2004 | Product Number: G02U03 | Price: $191.00

Bull 2V
Design of Flat Plate Structures
(includes Errata 1 dated March 2008)

Provides guidance for the design of steel flat plate structures. Pages: 139

3rd Edition | June 2004 | Product Number: G02V03 | Price: $191.00

This publication is a new entry in this catalog.
This publication is related to an API licensing, certification, or accreditation program.
Spec 2W ● Specification for Steel Plates for Offshore Structures, Produced by Thermo-Mechanical Control Processing (TMCP)

Covers two grades of high strength steel plates for use in welded construction of offshore structures, in selected critical portions which must resist impact, plastic fatigue loading, and lamellar tearing. Grade 50 is covered in thicknesses up to 6 in. (150 mm) inclusive, and Grade 60 is covered in thicknesses up to 4 in. (100 mm) inclusive. Pages: 15

5th Edition | December 2006 | Effective Date: June 1, 2007
Reaffirmed: January 2012 | Product Number: G02W05 | Price: $94.00

Spec 2W *

Specification for Steel Plates for Offshore Structures, Produced by Thermo-Mechanical Control Processing (TMCP)—Russian

Russian translation of Spec 2W.

5th Edition | December 2006 | Product Number: G02W05R | Price: $76.00

RP 2X

Recommended Practice for Ultrasonic and Magnetic Examination of Offshore Structural Fabrication and Guidelines for Qualification of Technicians

Contains guidance on commonly used NDE methods such as visual (VT), penetrant (PT), magnetic particle (MT), radiography (RT), and ultrasonic (UT) examinations, which are routinely used in offshore structural fabrication. This recommended practice primarily addresses the MT and UT methods. Guidance on VT, PT, and RT is incorporated by reference to AWS D1.1. Further recommendations are offered for determining the qualifications of personnel using MT and UT techniques. Recommendations are also offered for the integration of these techniques into a general quality control program. The interrelationship between joint design, the significance of defects in welds, and the ability of NDE personnel to detect critical-size defects is also discussed. Pages: 77

Product Number: G02X04 | Price: $147.00

Spec 2Y ● Specification for Steel Plates, Quenched-and-Tempered, for Offshore Structures

Covers two grades of high strength steel plate for use in welded construction of offshore structures, in selected critical portions which must resist impact, plastic fatigue loading, and lamellar tearing. Grade 50 is covered in thicknesses up to 6 in. (150 mm) inclusive, and Grade 60 is covered in thicknesses up to 4 in. (100 mm) inclusive. Pages: 13

5th Edition | December 2006 | Effective Date: June 1, 2007
Reaffirmed: January 2012 | Product Number: G02Y05 | Price: $94.00

RP 2Z

Recommendation Practice for Preproduction Qualification for Steel Plates for Offshore Structures

Covers requirements for preproduction qualification, by special welding and mechanical testing, of specific steelmaking and processing procedures for the manufacture of steel of a specified chemical composition range by a specific steel producer. This is a recommended practice for material selection and qualification, but not for the performance of production weld joints. This recommended practice was developed in conjunction with, and is intended primarily for use with, API Spec 2W and 2Y. However, it may be used as a supplement to other material specification s (e.g., API Spec 2H) if so desired. Pages: 19

Product Number: G02Z04 | Price: $119.00

RP 9SJ

Gulf of Mexico Jackup Operations for Hurricane Season

Presents an interim approach to siting jackup mobile offshore drilling units (MODUs) and to recommend certain operational procedures to enhance jackup survivability and stationkeeping during hurricane season in the Gulf of Mexico during drilling and workover and while stacked (idled) at a non-sheltered location. This RP provides guidance and processes, and when combined with an understanding of the environment at a particular location, the characteristics of the unit being utilized, and other factors, it may be used to enhance operational integrity. This RP was developed through a cooperative arrangement with the International Association of Drilling Contractors’ (IADC) Jackup Rig Committee. Specifically, this RP provides guidance in the following areas:

• site—including location-specific, geotechnical, and metocean;
• preloading process;
• air gap recommendations;
• unit preparations and evacuation;
• post storm recovery; and
• post storm inspections. Pages: 15

Product Number: G95J01 | Price: $62.00
You may access RP 9SJ in a read-only platform: publications.api.org

DECKS AND MASTS

Spec 4F ● Specification for Drilling and Well Servicing Structures

Covers the design, manufacture, and use of steel derricks, portable masts, crown block assemblies, and substructures suitable for drilling and well servicing operations in the petroleum industry. It includes requirements for marking, inspection, a uniform method of rating, and design loading for the equipment. This specification provides two product specification levels (PSLs) that define two levels of technical and quality requirements. Pages: 52

4th Edition | January 2013 | Effective Date: August 1, 2013
Product Number: G04G04 | Price: $115.00

Spec 4F *

Specification for Drilling and Well Servicing Structures—Chinese

Chinese translation of Spec 4F.


RP 4G

Operation, Inspection, Maintenance, and Repair of Drilling and Well Servicing Structures

(includes Errata 1 dated September 2013)

Provides guidelines and establishes recommended procedures for inspection, maintenance, and repair of items for drilling and well servicing structures to maintain the serviceability of this equipment. These recommendations should be considered as supplemental to, and not as a substitute for, the manufacturer’s instructions and the recommendations in API 54. Items of drilling and well servicing structures covered are masts/ derricks, substructures, and their accessories. Pages: 57


RP 4G *

Operation, Inspection, Maintenance, and Repair of Drilling and Well Servicing Structures—Chinese

Chinese translation of RP 4G.

4th Edition | April 2012 | Product Number: G04G04C | Price: $82.00

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersedr the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
**RP 5A3/ISO 13678:2010**
Recommended Practice on Thread Compounds for Casing, Tubing, Line Pipe, and Drill Stem Elements
(includes Errata 1 dated April 2011)
Provides requirements, recommendations, and methods for the testing of thread compounds intended for use on threaded casing, tubing, and line pipe connections and for thread compounds intended for use on rotary shouldered connections. The tests outlined are used to evaluate the critical performance properties and physical and chemical characteristics of thread compounds under laboratory conditions.
This edition of API RP 5A3 is the identical national adoption of ISO 13678:2010. Pages: 47
3rd Edition | November 2009 | Product Number: GX5A303 | Price: $145.00
You may access RP 5A3 in a read-only platform: publications.api.org

**RP 5A5/ISO 15463:2003**
Field Inspection of New Casing, Tubing, and Plain-End Drill Pipe
(includes Errata 1 dated December 2009)
 Specifies requirements and gives recommendations for field inspection and testing of oil country tubular goods (OCTG). This International Standard covers the practices and technology commonly used in field inspection; however, certain practices may also be suitable for mill inspections. Covers the qualification of inspection personnel, a description of inspection methods and apparatus calibration and standardization procedures for various inspection methods. The evaluation of imperfections and marking of inspected OCTG are included. Applicable to field inspection of OCTG and is not applicable for use as a basis for acceptance or rejection.
This edition of API RP 5A5 is the identical national adoption of ISO 15463:2003. Pages: 118
7th Edition | June 2005 | Reaffirmed: August 2010
Product Number: GX5A507 | Price: $157.00

**Spec 5B**
Specification for Threading, Gauging, and Thread Inspection of Casing, Tubing, and Line Pipe Threads
Covers dimensions and marking requirements for API Master thread gauges. Additional product threads and thread gauges as well as instruments and methods for the inspection of threads for line pipe, round thread casing, buttress casing, and extreme-line casing connections are included. It is applicable when so stipulated in the API standard governing the product. The inspection procedures for measurements of taper, lead, height, and angle of thread are applicable to threads having 111/2 or less turns per in. (111/2 or less turns per 25.4 mm). All thread dimensions shown without tolerances are related to the basis for connection design and are not subject to measurement to determine acceptance or rejection of product. Pages: 125
15th Edition | April 2008 | Effective Date: October 1, 2008
2-Year Extension: June 2013 | Product Number: G5B015 | Price: $118.00
You may access Spec 5B in a read-only platform: publications.api.org

**Spec 5B**
Specification for Threading, Gauging, and Thread Inspection of Casing, Tubing, and Line Pipe Threads—Chinese
Chinese translation of Spec 5B.
15th Edition | April 2008 | Product Number: G05B15C | Price: $83.00

**Spec 5B**
Specification for Threading, Gauging, and Thread Inspection of Casing, Tubing, and Line Pipe Threads—Kazakh
Kazakh translation of Spec 5B.
15th Edition | April 2008 | Product Number: G05B15R | Price: $114.00

---

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.*
RP 5C5/ISO 13679:2002
Recommended Practice on Procedures for Testing Casing and Tubing Connections
Establishes minimum design verification testing procedures and acceptance criteria for casing and tubing connections for the oil and natural gas industries. These physical tests are part of a design verification process and provide objective evidence that the connection conforms to the manufacturer's claimed test load envelope and limit loads.
This edition of API RP 5C5 is the identical national adoption of ISO 13679:2002. Pages: 139
3rd Edition | July 2003 | Reaffirmed: August 2010
Product Number: G5SC503 | Price: $163.00
You may access RP 5C5 in a read-only platform: publications.api.org

RP 5C6
Welding Connections to Pipe
Created to provide a standard industrial practice for the shop or field welding of connectors to pipe. The technical content provides requirements for welding procedure qualification, welder performance qualification, materials, testing, production welding, and inspection. Additionally, suggestions for ordering are included. Pages: 7
Product Number: G05C62 | Price: $86.00

Spec 5CRA/ISO 13680:2008 ◆
Specification for Corrosion Resistant Alloy Seamless Tubes for Use as Casing, Tubing and Coupling Stock (includes Errata 1 dated August 2011)
Specifies the technical delivery conditions for corrosion-resistant alloy seamless tubulars for casing, tubing, and coupling stock for two product specification levels. This edition of API Spec 5CRA is the identical national adoption of ISO 13680:2010. Pages: 87
1st Edition | February 2010 | Effective Date: August 1, 2010
Product Number: G05C62C | Price: $61.00

Spec 5CT ◆
Specification for Casing and Tubing (includes Errata 1 dated September 2012)
 Specifies the technical delivery conditions for steel pipes (casing, tubing, plain end casing liners, and pup joints) and accessories. This standard is applicable to the following connections in accordance with API Spec 5B:
- short round thread casing (STC);
- long round thread casing (LC);
- buttress thread casing (BC);
- extreme-line casing (XC);
- non-upset tubing (NU);
- external upset tubing (EU);
- integral joint tubing (IJ).
This standard specifies the technical delivery conditions for steel pipes (casing, tubing, and pup joints), coupling stock, coupling material, and accessory material and establishes requirements for three Product Specification Levels (PSL-1, PSL-2, PSL-3). The requirements for PSL-1 are the basis of this standard. The requirements that define different levels of standard technical requirements for PSL-2 and PSL-3, for all grades except H-40, L-80, and C110, are contained in Annex H. This standard can also be applied to tubulars with connections not covered by API standards. This standard is not applicable to threading requirements. This standard is based on the 8th Edition of API Spec 5CT. Pages: 269
9th Edition | July 2011 | Effective Date: January 1, 2012
Product Number: GSCT09 | Price: $237.00
You may access Spec 5CT in a read-only platform: publications.api.org

Spec 5DP/ISO 11961:2008 ◆
Specification for Drill Pipe
Specifies the technical delivery conditions for steel drill-pipes with upset pipe-body ends and weld-on tool joints for use in drilling and production operations in petroleum and natural gas industries for three product specification levels (PSL-1, PSL-2, and PSL-3). This International Standard covers the following grades of drill-pipe:
- grade E drill-pipe;
- high-strength grades of drill-pipe, grades X, G, and S.
This International Standard can also be used for drill-pipe with tool joints not specified by ISO or API standards. This International Standard is based on API Spec 5D and API Spec 7.
This edition of API Spec 5DP is the identical national adoption of ISO 11961:2008. This specification contains the API Monogram Annex as part of the U.S. national adoption. Pages: 112
1st Edition | August 2009 | Effective Date: August 1, 2010
Product Number: GX5DP01 | Price: $181.00

Spec 5DP/ISO 11961:2008 ◆
Specification for Line Pipe
Specifies requirements for the manufacture of two product specification levels (PSL-1 and PSL-2) of seamless and welded steel pipes for use in pipeline transportation systems in the petroleum and natural gas industries. Pages: 180
45th Edition | December 2012 | Effective Date: July 1, 2013
Product Number: G05L45 | Price: $258.00
You may access Spec 5L in a read-only platform: publications.api.org

Spec 5L ◆
Specification for Line Pipe (Chinese)
Chinese translation of Spec 5L.
45th Edition | December 2012 | Effective Date: January 1, 2012
Product Number: G05L45C | Price: $181.00

RP 5L1
Recommended Practice for Railroad Transportation of Line Pipe
Applies to the transportation on railcars of API Spec 5L steel line pipe in sizes 2 3/8” and larger in lengths longer than single random. These recommendations cover coated or uncoated pipe, but they do not encompass loading practices designed to protect pipe coating from damage. Pages: 5
7th Edition | September 2009 | Product Number: G5L107 | Price: $59.00
You may access RP 5L1 in a read-only platform: publications.api.org

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersed the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
### Exploration and Production

Fax Orders: 303-397-2740  
Online Orders: www.global.ihs.com

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Price</th>
<th>Edition</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
</table>
| G05L82R        | $100.00| 2nd     | December 1996 | Russian translation of RP 5L8.  
Effective Date: December 31, 1998 |
| G05L82K        | $100.00| 2nd     | December 1996 | Russian translation of RP 5L8.  
Effective Date: December 31, 1998 |
| G5L204R        | $67.00 | 2nd     | July 2002   | Recommended Practice for Internal Coating of Line Pipe for Non-Corrosive Gas Transmission Service—Russian  
Effective Date: December 31, 1998 |
| G5L204C        | $67.00 | 2nd     | July 2002   | Recommended Practice for Internal Coating of Line Pipe for Non-Corrosive Gas Transmission Service—Russian  
Effective Date: December 31, 1998 |
| G5L304         | $95.00 | 1st     | August 2014 | Recommended Practice for Unprimed Internal Fusion Bonded Epoxy Coating of Line Pipe  
Effective Date: December 31, 1998 |
| G5L901         | $79.00 | 1st     | December 2001 | Recommended Practice for Internal Coating of Line Pipe for Non-Corrosive Gas Transmission Service—Russian  
Effective Date: December 31, 1998 |
| G5L901R        | $79.00 | 1st     | December 2001 | Recommended Practice for Internal Coating of Line Pipe for Non-Corrosive Gas Transmission Service—Russian  
Effective Date: December 31, 1998 |
| G05L82         | $125.00| 2nd     | August 2010  | Recommended Practice for Field Inspection of New Line Pipe  
Effective Date: December 31, 1998 |
| G5LCP2         | $146.00| 2nd     | November 2012 | Recommended Practice on Coiled Line Pipe (includes Errata 1 dated July 2007)  
Effective Date: December 31, 1998 |

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.*
**Recommended Practice for Truck Transportation of Line Pipe**

Applies to the transportation on railcars of API Spec 5L steel line pipe in sizes 2 3/8" and larger in lengths longer than single random. These recommendations cover coated or uncoated pipe, but they do not encompass loading practices designed to protect pipe coating from damage. 

Pages: 6

1st Edition | March 2012 | Product Number: G5LT01 | Price: $59.00

**Recommended Practice for Transportation of Line Pipe on Barges and Marine Vessels**

Applies to the transportation of API Spec 5L steel line pipe by ship or barge. Covers both inland and marine waterways except in cases where the specific requirement of a paragraph references only marine or only inland-waterway transport. 

Pages: 5

3rd Edition | September 2009 | Product Number: G5LW03 | Price: $59.00

You may access RP 5LW in a read-only platform: publications.api.org

**Recommended Practice for Purchaser Representative Surveillance and/or Inspection at the Supplier**

Establishes a set of general guidelines addressing the protocol between purchasers, suppliers, and the purchaser representative for surveillance and/or inspection by the purchaser representative. It is a general document of use at the request of the purchaser of API products and is intended to provide only general guidance to the industry. Addresses the relationship and responsibility of the purchaser, suppliers, and purchaser representatives regarding surveillance and/or inspection of products from placement of the order or the pre-production meeting, as appropriate, through the point of title transfer from suppliers to purchasers. 

Pages: 7


Product Number: G5SI01 | Price: $57.00

---

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersedes the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.

---

This publication is a new entry in this catalog. This publication is related to an API licensing, certification, or accreditation program.
RP 5UE
Recomm ended Practice for Ultrasonic Evaluation of Pipe Imperfections
(includes Addendum 1, dated April 2009)
Describes procedures which may be used to “prove-up” the depth or size of imperfections. Included in this practice are the recommended procedures for ultrasonic prove-up inspection of new pipe using the Amplitude Comparison Technique and the Amplitude-Distance Differential Technique for evaluation of
• surface breaking imperfections in the body of pipe, and
• surface breaking and subsurface imperfections in the weld area of electric resistance, electric induction or laser welded pipe, and
• surface breaking and subsurface imperfections in the weld area of arc welded pipe. Pages: 22
2nd Edition | June 2005 | Reaffirmed: August 2010
Product Number: GSU02 | Price: $79.00

VALVES AND WELLHEAD EQUIPMENT
Spec 6A/ISO 10423:2009 ∗
Specification for Wellhead and Christmas Tree Equipment
Specifies requirements and gives recommendations for the performance, dimensional and functional interchangeability, design, materials, testing, inspection, welding, marking, handling, storing, shipment, purchasing, repair, and remanufacture of wellhead and christmas tree equipment for use in the petroleum and natural gas industries. This document does not apply to field use, field testing, or field repair of wellhead and christmas tree equipment. This document is applicable to the following specific equipment: wellhead equipment (casing head housings, casing head spools, tubing head spools, cross-over spools, multi-stage head housings and spools); connectors and fittings (cross-over connectors, tubing head adapters, top connectors, tees and crosses, fluid-sampling devices, adapter and spacer spools); casing and tubing hangers (mandrel hangers, slip hangers); valves and chokes (single valves, multiple valves, actuated valves, valves prepared for actuators, check valves, chokes, surface and underwater safety valves and actuators, back-pressure valves); loose connectors (weld neck connectors, blind connectors, threaded connectors, adapter and spacer connectors, bullplugs, valve-removal plugs); and other equipment (actuators, hubs, pressure boundary penetrations, ring gaskets, running and testing tools, wear bushings). This document defines service conditions, in terms of pressure, temperature, and material class for the well-bore constituents, and operating conditions. This International Standard establishes requirements for five product specification levels (PSL). These five PSL designations define different levels of technical quality requirements.
This edition of API Spec 6A is the modified national adoption of ISO 10423:2009. Pages: 436
20th Edition | October 2010 | Effective Date: April 1, 2011
Product Number: G606A20 | Price: $260.00
You may access Spec 6A in a read-only platform: publications.api.org

Spec 6A/ISO 10423:2009 ∗
Specification for Wellhead and Christmas Tree Equipment—Chinese
Chinese translation of Spec 6A.
20th Edition | October 2010
Product Number: G606A20C | Price: $182.00

Std 6A718
Nickel Base Alloy 718 (UNS N07718) for Oil and Gas Drilling and Production Equipment
(includes Errata 1 dated April 2010)
Provides requirements for Nickel Base Alloy 718 (UNS N07718) that are intended to supplement the existing requirements of API Spec 6A and ISO 10423. These additional requirements include detailed process control requirements and detailed testing requirements. The purpose of these additional requirements is to ensure that the Nickel Base Alloy 718 used in the manufacture of API Spec 6A or ISO 10423 pressure-containing and pressure-controlling components is not embrittled by the presence of an excessive level of deleterious phases. This standard is intended to apply to pressure containing and pressure controlling components covered by API Spec 6A and ISO 10423, but is not invoked by API Spec 6A and ISO 10423. This standard is applicable when invoked by the equipment manufacturer or the equipment purchaser. Pages: 18
2nd Edition | December 2009 | Product Number: G6A7182 | Price: $71.00

Std 6A718 *
Nickel Base Alloy 718 (UNS N07718) for Oil and Gas Drilling and Production Equipment—Kazakh
Kazakh translation of Std 6A718.
2nd Edition | December 2009
Product Number: G6A7182K | Price: $71.00

Std 6A718 *
Nickel Base Alloy 718 (UNS N07718) for Oil and Gas Drilling and Production Equipment—Russian
Russian translation of Std 6A718.
2nd Edition | April 2010 | Product Number: G6A7182R | Price: $70.00

TR 6AF
Technical Report on Capabilities of API Flanges Under Combinations of Load
Presents the results of analysis work done in to establish the load capacity of all flanges give in the April 1986 editions of API 6A and API 6AB. A total of 69 different geometries were analyzed initially. The various loads considered were bolt makeup (preload), internal pressure, tension, and bending moment. All flanges were analyzed with an axisymmetric finite model for each of the four load cases. A post-processor program was written to calculate the maximum moment capacity for various levels of pressure and tension, based on linear superposition of results. Three different criteria were used to establish the maximum moment:
• ASME Section VIII, Division 2 allowable stress categories for the flange with the basic membrane stress allowable established by API; and
• allowable bolt stresses as established by API; and
• loss of preload on the ring joint.
The results of this post-processing are presented in plots of pressure vs. allowable moment for various tension levels. Limitations to this work include: the effects of transverse shear or torsion were not considered in the analysis; dynamic, fatigue, or fretting phenomena were not considered in these results; and thermal stresses or elevated temperature effects were not considered. The charts are intended to be used only as general guidelines for design. These charts are not intended to replace a critical evaluation of any particular connection in an application where the charts show the flange to be marginal. Pages: 79
3rd Edition | September 2008 | Product Number: G6AF03 | Price: $150.00
TR 6AF1
Technical Report on Temperature Derating of API Flanges Under Combination of Loading

Continuation to the report on the capabilities of flanges under combined loadings (PRCA 85-21) which resulted in the publication of API Bull 6AF. Included in this technical report is an in-depth look into the effect of elevated temperatures of API flanges. The results in this report are analytical and assume a temperature gradient across the flange as stated in this report.

2nd Edition | November 1998 | Product Number: G06AF1 | Price: $157.00

TR 6AF2
Technical Report on Capabilities of API Integral Flanges Under Combination of Loading—Phase II

Result of the evaluation of the load carrying capacity of API 6A integral flanges, including the end tension and bending moment in addition to the conventional rated pressure and makeup forces. The effect of a temperature difference corresponding to 250 °F on the inside and 30 °F on the outside is also evaluated. Three-dimensional finite element meshes are generated for the Type 6B and Type 6BX flanges. The computer program SESAM is used to obtain the stresses at selected critical flange and hub sections and to determine the gasket reaction due to each of the four unit load cases and the temperature difference load case. The leakage criterion is defined as the load combination with the initial makeup compressive force reduced to zero. The stresses in each defined section are linearized in accordance with the ASME Section VIII, Division 2 procedure to determine the membrane and membrane-plus-bending stress intensities. The stress intensities are checked against the allowable conditions specified in Spec 6A.

5th Edition | April 2013 | Product Number: G6AF25 | Price: $170.00

TR 6AM
Technical Report on Material Toughness

Includes CVN toughness requirement that can be used as a quality assurance measure in API Spec 6A equipment to screen materials with poor notch toughness.

2nd Edition | September 1995 | Product Number: G06AM2 | Price: $76.00

Spec 6AV1 ●
Specification for Validation of Wellhead Surface Safety Valves and Underwater Safety Valves for Offshore Service

Establishes design validation requirements for API Spec 6A surface safety valves/underwater safety valves (SSV/USV) and associated valve bore sealing mechanism(s) for Class II and Class III. These classes are intended for use if substances such as sand can be expected to cause an SSV/USV valve failure. Class III adds requirements for the validation of the valve bonnet assembly inclusive of stem seals and may be selected by the user/purchaser. Validation to Class III also validates the same SSV/USV for Class II in accordance with scaling limitations specified in the document. The validation requirements in this specification are not represented as duplicating actual well conditions.

Previous editions of this document included reference to and requirements for verification to PR1, standard service (Class I). Pages: 25

2nd Edition | February 2013 | Product Number: G6AV102 | Price: $80.00
You may access Spec 6AV1 in a read-only platform: publications.api.org

Std 6AV2 ●
Installation, Maintenance and Repair of Surface Safety Valves and Underwater Safety Valves Offshore

(includes Errata 1 dated August 2014)

Provides requirements for installing and maintaining surface safety valves (SSV) and underwater safety valves (USV). Included are requirements for receiving inspection, installation and maintenance, field and offshore repair, testing procedures with acceptance criteria, failure reporting, and documentation. Power and control systems for SSV/USVs are not included. This document is applicable to SSVs/USVs used or intended to be used as part of a safety system, as defined by documents such as API 14C. This standard is the revision of and supersedes API 14H, 5th Edition. Pages: 29

1st Edition | March 2014 | Product Number: G6AV201 | Price: $135.00

Spec 6D ● ●
Specification for Pipeline and Piping Valves

(includes Errata 1 dated October 2014 and Errata 2 dated December 2014)

Specifies requirements and provides recommendations for the design, manufacturing, testing, and documentation of ball, check, gate, and plug valves for application in pipeline systems meeting ISO 13623 or similar requirements for the petroleum and natural gas industries. This specification is not applicable to subsea pipeline valves, as they are covered by a separate specification (API Spec 6DSS). This specification is not for application to valves for pressure ratings exceeding PN 420 (Class 2500).

This edition of API Spec 6D is the identical national adoption of 14313:2007. Pages: 108

24th Edition | August 2014 | Effective Date: August 1, 2015
Product Number: G6D024 | Price: $150.00
You may access Spec 6D in a read-only platform: publications.api.org

RP 6DR
Recommended Practice for the Repair and Remanufacture of Pipeline Valves

Provides guidelines for the repair and remanufacture of steel ball, check, gate, and plug valves normally used in pipeline applications, as defined by API Spec 6D. This RP covers repair or remanufacturing of end user’s (owner’s) valves for continued service in the owner’s production applications. Repaired or remanufactured valves may not meet API and/or the OEM standard requirements for new valves. The owner is responsible for the correct application of valves repaired or remanufactured per this document. It does not cover repair or remanufacture of used or surplus valves intended for resale. Furthermore, field repair is outside the scope of this document.

2nd Edition | May 2012 | Product Number: G06DR2 | Price: $78.00

Spec 6DSS/ISO 14723:2009 ●
Specification for Subsea Pipeline Valves

(includes Errata 2 dated November 2010)

Specifies requirements and gives recommendations for the design, manufacturing, testing, and documentation of ball, check, gate and plug valves for subsea application in offshore pipeline systems meeting the requirements of ISO 13623 for the petroleum and natural gas industries. This International Standard is not applicable to valves for pressure ratings exceeding PN 420 (Class 2500).

This edition of API Spec 6DSS is the identical national adoption of ISO 14723:2009. This specification contains the API Monogram Annex as part of the U.S. national adoption. Pages: 72

2nd Edition | December 2009 | Effective Date: June 1, 2010
Product Number: G6DSS2 | Price: $116.00

Spec 6DSS/ISO 14723:2009 ●
Specification for Subsea Pipeline Valves—Chinese

Chinese translation of Spec 6DSS.


*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersed the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
### Exploration and Production

**Fax Orders:** 303-397-2740  
**Online Orders:** www.global.ihs.com

<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Std 6DX/ISO 12490-2011</strong></td>
<td>Standard for Actuator Sizing and Mounting Kits for Pipeline Valves</td>
<td>$131.00</td>
</tr>
<tr>
<td><strong>TR 6F1</strong></td>
<td>Technical Report on Performance of API and ANSI End Connections in a Fire Test According to API Specification 6FA</td>
<td>$115.00</td>
</tr>
<tr>
<td><strong>TR 6F2</strong></td>
<td>Technical Report on Fire Resistance Improvements for API Flanges</td>
<td>$109.00</td>
</tr>
<tr>
<td><strong>Spec 6FA</strong></td>
<td>Specification for Fire Test for Valves</td>
<td>$97.00</td>
</tr>
<tr>
<td><strong>Spec 6FB</strong></td>
<td>Specification for Fire Test for End Connections (includes Errata/Supplement dated December 2008)</td>
<td>$109.00</td>
</tr>
<tr>
<td><strong>Spec 6FD</strong></td>
<td>Specification for Fire Test for Check Valves</td>
<td>$89.00</td>
</tr>
<tr>
<td><strong>Spec 6FD</strong></td>
<td>Specification for Fire Test for Check Valves—Russian</td>
<td>$72.00</td>
</tr>
<tr>
<td><strong>RP 6HT</strong></td>
<td>Heat Treatment and Testing of Carbon and Low Alloy Steel Large Cross Section and Critical Section Components</td>
<td>$85.00</td>
</tr>
</tbody>
</table>

---

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersed the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.*
Exploration and Production

**Bull 6J**

Bulletin on Testing of Oilfield Elastomers—A Tutorial

Contains a tutorial for the evaluation of elastomer test samples of actual elastomeric seal members intended for use in the oil and gas industry. It also provides a review of the testing criteria, environments, evaluation procedures, guidelines for comparisons, and effects of other considerations on the evaluation of elastomeric seal materials and members. Pages: 15

1st Edition | February 1992 | Product Number: G03230 | Price: $79.00

**TR 6J1**

Elastomer Life Estimation Testing Procedures

The proposed procedure discussed in this publication outlines a technique based on the Arrhenius principle of chemical reaction rates, which permits the life of an elastomeric material to be estimated when exposed to a severe service environment. This is a companion document to API Bulletin 6J, 2nd Edition. Pages: 14

1st Edition | August 2000 | Product Number: G06J11 | Price: $79.00

**TR 6MET**

Metallic Material Limits for Wellhead Equipment Used in High Temperature for API 6A and 17D Applications

Examines mechanical properties of metallic materials used for API 6A and 17D wellhead equipment for service above 250°F. A total of 11 different alloys meeting API 6A, PSL 3 conditions were supplied “in condition” by a variety of suppliers. Materials in this test program included alloys common to the oil and gas industry. The alloys tested included low alloy steels, martensitic, precipitation hardened and duplex stainless steels, and nickel alloys. Yield strength reduction ratios at temperatures of 300, 350, 400, and 450°F are reported. As a result of testing, yield strength reduction ratios at 300°F to 450°F ranged from 92% to 87% for the low alloy steels, 92% to 88% for the martensitic stainless steels, 81% to 73% for super duplex, 93% to 89% for the precipitation hardened stainless steel, and 94% to 89% for the nickel alloys. The reported results represent an average over the different heats for each type of material. These results are intended to expand the data shown in API 6A, Appendix G. Pages: 32

1st Edition | October 2010 | Product Number: G6MET1 | Price: $98.00

**Std 6X**

Design Calculations for Pressure-Containing Equipment

(includes Errata 1 dated May 2014)

Describes the design analysis methodology used in the ASME Boiler and Pressure Vessel Code, 2004 with 2005 and 2006 addenda, Section VIII, Pressure Vessels, Division 2, Alternative Methods, Appendix 4, Methods are included for both elastic and elastic-plastic analysis, and for closed-form as well as finite-element analysis methods of calculation. in accordance with the rules of Appendix 4 of the 2004 Code, Section VIII Division 2. API has adopted slightly different stress limits from the 2004 ASME Code. The criteria used assume defect-free, tough, and ductile material behavior. Pages: 8

1st Edition | March 2014 | Product Number: G06X01 | Price: $60.00

**DRILLING EQUIPMENT**

**Spec 7-1/ISO 10424-1:2004**

Specification for Rotary Drill Stem Elements

(includes Addendum 1 dated March 2007, Addendum 2 dated August 2008, and Addendum 3 dated April 2011)

Replaces, in part, API Spec 7, 40th Edition, API Spec 7, Addendum 2 removes the following products now covered by this standard.

- upper and lower Kelly valves,
- square and hexagon Kellys,
- drill stem subs,

These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersed the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
Exploration and Production

Spec 7F
Oil Field Chain and Sprockets
(includes Errata 1 dated May 2013)

Covers the manufacture of the components for, and the assembly and packaging of, single and multiple strand, numbers 40 through 240, standard and heavy series roller chains for oil field applications, including chain designation, chain length tolerance, tensile strength specifications, pin and bushing press-out specifications, and dynamic test requirements. For informational purposes, Annex A provides recommendations for installation, lubrication, and maintenance of oil field chain drives, and Annex B includes a basic description of roller chain sprockets. Pages: 29

8th Edition | November 2010 | Effective Date: May 1, 2011
Product Number: G7F008 | Price: $116.00

Spec 7F *
Oil Field Chain and Sprockets—Chinese

Chinese translation of Spec 7F.

8th Edition | November 2010 | Product Number: G7F008C | Price: $82.00

RP 7G
Recommended Practice for Drill Stem Design and Operating Limits
(includes Errata 1 dated May 2000, Addendum 1 dated November 2003, and Addendum 2 dated August 2009)

Covers recommendations for the design and selection of drill string members and includes considerations of hole angle control, drilling fluids, weight, and rotary speed. Tables and graphs are included that present dimensional, mechanical, and performance properties of new and used drill pipe; new tool joints used with new and used drill pipe; drill collars; and Kellys. Recommended standards for inspection of used drill pipe, used tubing work strings, and used tool joints are included. Pages: 154

16th Edition | August 1998 | Effective Date: December 1, 1998
Reaffirmed: October 2010 | Product Number: G07G6A | Price: $194.00

RP 7G *
Recommended Practice for Drill Stem Design and Operating Limits—Kazakh

Kazakh translation of RP 7G.

16th Edition | August 1998 | Product Number: G07G6AK | Price: $156.00

RP 7G *
Recommended Practice for Drill Stem Design and Operating Limits—Russian

Russian translation of RP 7G.

16th Edition | September 2009
Product Number: G07G6AR | Price: $155.00

Recommended Practice for Inspection and Classification of Drill Stem Element Inspection
(includes Errata 1 dated October 2009)

Specifies the requirements for each level of inspection and procedures for the inspection and testing of used drill stem elements. This document has been prepared to address the practices and technology commonly used in inspection. This document also specifies the qualification of inspection personnel, a description of inspection methods, and apparatus calibration and standardization procedures for various inspection methods. The evaluation of imperfections and the marking of inspected drill stem elements is included. This edition of API RP 7G-2 is the identical national adoption of ISO 10407-2:2008. Pages: 213

1st Edition | August 2009 | Product Number: GX7G201 | Price: $140.00

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersed the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.

Fax Orders: 303-397-2740
Online Orders: www.global.ihs.com

RP 7G-2/ISO 10407-2:2008 *
Recommended Practice for Inspection and Classification of Drill Stem Element Inspection—Spanish

Spanish translation of RP 7G-2.

1st Edition | August 2009 | Product Number: GX7G201SP | Price: $140.00

RP 7HU1
Safe Use of 2-Inch Hammer Unions for Oilfield Applications
(includes Errata 1 dated February 2014)

Sets forth procedural recommendations as well as an engineering solution to the mismatching of a female 2-inch Figure 402, a female 2-inch Figure 602, or a female 2-inch Figure 1002 hammer union component (sub) with a male 2-inch Figure 1502 hammer union component (wing nut) as described in 3.2. The procedural recommendations described in this RP should be implemented to reduce further incidents. The engineering solution, which makes impossible the mating of female 2-inch Figure 402, 2-inch Figure 602, and/or 2-inch Figure 1002 subs with the wing nut of the 2-inch Figure 1502 hammer union, applies to the manufacture of new hammer union components and should not be applied in the modification of existing hammer union components due to unknown factors caused by field wear. Pages: 12

1st Edition | May 2009 | Product Number: H7HU1 | Price: $37.00

Spec 7K
Drilling and Well Servicing Equipment
(includes Errata 1 dated August 2010)

Provides general principles and specifies requirements for design, manufacture, and testing of new drilling and well-servicing equipment and of replacement primary load-carrying components manufactured subsequent to the publication of this specification. This specification is applicable to the following equipment:

a) rotary tables;

b) rotary bushings;

c) standard rotary slips designed for use in standard rotary bowls with a 33.33 cm/m (4 in./ft) API taper;

d) nonstandard rotary slips without a taper of 33.33 cm/m (4 in./ft) for use in manual spiders as described in Item i);

e) high-pressure mud and cement hoses;

f) piston mud-pump components;

g) drawworks components;

h) manual spiders that use standard rotary slips as described in Item c) that are not capable for use as elevators and are installed on or above the master bushing/rotary table;

i) manual spiders that use nonstandard rotary slips not having a taper of 33.33 cm/m (4 in./ft) not capable of use as elevators, and installed on or above the master bushing/rotary table;

j) spring, pneumatic, or hydraulic spiders with integral slips not capable for use as elevators and are installed on or above the master bushing/rotary table;

k) spring, pneumatic, or hydraulic spiders with integral slips not capable for use as elevators and are installed in, or partly in, the rotary table;

l) manual tongs;

m) safety clamps not used as hoisting devices;

n) power tongs, including spinning wrenches;

o) blowout preventer (BOP) handling systems;

p) pressure-relieving devices for high-pressure drilling fluid circulating systems;

q) snub-lines for manual and power tongs. Pages: 105

5th Edition | June 2010 | Effective Date: December 1, 2010
Product Number: G07K05 | Price: $182.00

Online Orders: www.global.ihs.com

This publication is a new entry in this catalog.

This publication is related to an API licensing, certification, or accreditation program.
Recommended Practice for Procedures for Inspection, Maintenance, Repair, and Remanufacture of Drilling Equipment

Provides owners and users of drilling equipment with guidelines for inspection, maintenance, repair, and remanufacture procedures that may be utilized to maintain serviceability of the drilling equipment. Covers the following drilling equipment:

- rotary tables;
- rotary bushings;
- rotary slips;
- rotary hoses;
- slush pump connectors;
- drawworks components;
- spiders not used as elevators; manual tongs; and
- safety clamps not used as hoisting devices. Pages: 26

1st Edition | December 1995 | Effective Date: April 1, 1996
Reaffirmed: August 2012 | Product Number: G07L01 | Price: $109.00

Spec 7K *
Drilling and Well Servicing Equipment—Chinese

Chinese translation of Spec 7K.
5th Edition | June 2010 | Product Number: G07K05C | Price: $128.00

Spec 7NRV *
Specification for Drill String Non-Return Valves

Provides the minimum acceptable requirements for drill string non-return valve (NRV) equipment. It covers drill string non-return valves, non-return valve sub, non-return valve landing nipples, non-return valve equalizing heads, and all components that establish tolerances and/or clearances which may affect performance or interchangeability of the NRV equipment. Non-return valve subs, non-return valve landing nipples, non-return valve equalizing heads, and NRVs manufactured by different facilities or manufacturers may be supplied as separate items. Pages: 19

Product Number: G7NRV01 | Price: $70.00

Spec 7NRV *
Specification for Drill String Non-Return Valves—Chinese

Chinese translation of Spec 7NRV.
1st Edition | July 2006 | Product Number: G7NRV01C | Price: $49.00

WIRE ROPE

Spec 9A *
Specification for Wire Rope

(includes Errata 1 dated October 2012)

Specifies the minimum requirements and terms of acceptance for the manufacture and testing of steel wire ropes not exceeding rope grade 2160 for the petroleum and natural gas industries. The following products are covered by this specification:

- wire rope;
- bright- or drawn-galvanized wire rope;
- well-measuring wire, and
- well-measuring strand.

Typical applications include tubing lines, rod hanger lines, sand lines, cable-tool drilling and clean out lines, cable tool casing lines, rotary drilling lines, winch lines, horse head pumping unit lines, torpede lines, mast raising lines, guideline tensioner lines, riser tensioner lines, and mooring and anchor lines. Ropes for lifting slings and cranes, and wire for well-measuring and strand for well servicing, are also included. The minimum breaking forces for the more common sizes, grades, and constructions of stranded rope are given in
<table>
<thead>
<tr>
<th>Title</th>
<th>Edition</th>
<th>Reaffirmed</th>
<th>Product Number</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specification for活泼的 cement in a read-only platform: publications.api.org</td>
<td>24th</td>
<td>December 2010</td>
<td>GX10A246</td>
<td>$145.00</td>
</tr>
<tr>
<td>Specification for Cements and Materials for Well Cementing</td>
<td>2nd</td>
<td>April 2013</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Wire Rope—Chinese</td>
<td>26th</td>
<td>May 2011</td>
<td>G9A026C</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>6th</td>
<td>March 2002</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>1st</td>
<td>July 2010</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>1st</td>
<td>November 2010</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>1st</td>
<td>August 2010</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>6th</td>
<td>September 1, 2002</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>1st</td>
<td>November 2010</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>1st</td>
<td>August 2010</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>6th</td>
<td>September 1, 2002</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>1st</td>
<td>November 2010</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>1st</td>
<td>August 2010</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>6th</td>
<td>September 1, 2002</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>1st</td>
<td>November 2010</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>1st</td>
<td>August 2010</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>6th</td>
<td>September 1, 2002</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>1st</td>
<td>November 2010</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>1st</td>
<td>August 2010</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>6th</td>
<td>September 1, 2002</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>1st</td>
<td>November 2010</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>1st</td>
<td>August 2010</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
<tr>
<td>Specification for Bow-Spring Casing Centralizers</td>
<td>6th</td>
<td>September 1, 2002</td>
<td>GX10B31</td>
<td>$77.00</td>
</tr>
</tbody>
</table>

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
**Exploration and Production**

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>G10TR2R</td>
<td>$97.00</td>
</tr>
<tr>
<td>G10TR2</td>
<td>$63.00</td>
</tr>
<tr>
<td>G10TR3</td>
<td>$157.00</td>
</tr>
<tr>
<td>G10TR4</td>
<td>$61.00</td>
</tr>
<tr>
<td>G10TR5</td>
<td>$48.00</td>
</tr>
<tr>
<td>G10TR6</td>
<td>$49.00</td>
</tr>
</tbody>
</table>

**Spec 10D/ISO 10427-1:2001**
Specification for Bow-Spring Casing Centralizers—Chinese
Chinese translation of Spec 10D.

**RP 100D-2/ISO 10427-2:2004**
Recommended Practice for Centralizer Placement and Stop Collar Testing
Provides calculations for determining centralizer spacing, based on centralizer performance and desired standoff, in deviated and dogleg holes in wells for the petroleum and natural gas industries. It also provides a procedure for testing stop collars and reporting test results.
This edition of API RP 100D-2 is the identical national adoption of ISO 10427-2:2004. Pages: 14
1st Edition | August 2004 | Reaffirmed: July 2010
Product Number: G610D21 | Price: $77.00
You may access RP 100D-2 in a read-only platform: publications.api.org

**RP 10F/ISO 10427-3:2003**
Recommended Practice for Performance Testing of Cementing Float Equipment
(includes Errata 1 dated September 2003)
Describes testing practices to evaluate the performance of cementing float equipment for the petroleum and natural gas industries. This recommended practice is applicable to float equipment that will be in contact with water-based fluids used for drilling and cementing wells. It is not applicable to float equipment performance in non-water-based fluids.
This edition of API RP 10F is the identical national adoption of ISO 10427:2003. Pages: 12
3rd Edition | April 2002 | Reaffirmed: August 2010
Product Number: GX10F03 | Price: $64.00

**TR 10TR1**
Cement Sheath Evaluation
Provides the current principles and practices regarding the evaluation and repair of primary cementsations of casing strings in oil and gas wells. Cement bond logs, compensated logging tools, ultrasonic cement logging tools, and borehole fluid-compensated logging tools are covered. Pages: 124
2nd Edition | September 2008
Product Number: G10TR12 | Price: $145.00
You may access TR 10TR1 in a read-only platform: publications.api.org

**TR 10TR1**
Cement Sheath Evaluation—Kazakh
Kazakh translation of TR 10TR1.
2nd Edition | September 2008
Product Number: G10TR12K | Price: $116.00

**TR 10TR1**
Cement Sheath Evaluation—Russian
Russian translation of TR 10TR1.
2nd Edition | September 2008
Product Number: G10TR12R | Price: $116.00

**TR 10TR2**
Shrinkage and Expansion in Oilwell Cements
Presents the results of research into shrinkage and expansion of oilwell cements in the wellbore as well as a series of test methods and procedures developed to measure these phenomena. Pages: 57
Product Number: G10TR2 | Price: $122.00

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersedes the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.*
Recommended Practice for Care and Use of Subsurface Pumps

Contains a compilation of technology and practices used by many operators drilling wells in deep water. It is meant to highlight key parameters for increasing the chance of successfully drilling and cementing casings where there is a risk of shallow water flow and to discuss options that are available. Pages: 44

Product Number: G56001 | Price: $121.00
You may access RP 65 in a read-only platform: publications.api.org

Cementing Shallow Water Flow Zones in Deepwater Wells—Kazakh
Kazakh translation of RP 65.
1st Edition | September 2002 | Product Number: G56001K | Price: $97.00

Cementing Shallow Water Flow Zones in Deepwater Wells—Russian
Russian translation of RP 65.
1st Edition | September 2002 | Product Number: G56001R | Price: $96.00

Isolating Potential Flow Zones During Well Construction
Contains best practices for zone isolation in wells to prevent annular pressure and/or flow through or past pressure-containment barriers that are installed and verified during well construction. Well construction practices that may affect barrier sealing performance are mentioned along with methods to help ensure positive effects or to minimize any negative ones. The objectives of this guideline are two-fold. The first is to help prevent and/or control flows just prior to, during, and after primary cementing operations to install or “set” casing and liner pipe strings in wells. The second objective is to help prevent sustained casing pressure (SCP). The guidance from this document covers recommendations for pressure-containment barrier design and installation and well construction practices that affect the zone isolation process to prevent or mitigate annular fluid flow or pressure. Pages: 83
2nd Edition | December 2010 | Product Number: G65202 | Price: $130.00
You may download a PDF of this document from the Policy & Issues/Hydraulic Fracturing section of the API website.

PRODUCTION EQUIPMENT

Recommended Practice for Care and Use of Subsurface Pumps
(Includes Errata dated December 2013)
Provides information on the proper selection, operation, and maintenance of subsurface pumps so the best economical life can be obtained. Pages: 50
Product Number: G11AR4 | Price: $124.00

Specification for Subsurface Sucker Rod Pumps and Fittings
(Includes Addendum 1 dated August 2011 and Addendum 2 dated October 2012)
Covers rod pumps and tubing pumps in commonly used bore sizes. Sufficient dimensional requirements are provided to assure interchangeability and standardization of all component parts; however, details of design are not specified. Standard materials are specified. Pages: 94
12th Edition | June 2006 | Effective Date: October 1, 2006
Reaffirmed: January 2012 | Product Number: G11AX12 | Price: $134.00

These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersed the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.

* This publication is a new entry in this catalog. ◆ This publication is related to an API licensing, certification, or accreditation program.
Exploration and Production

Phone Orders: 1-800-854-7179 (Toll-free: U.S. and Canada)

Progressing Cavity Pump Systems for Artificial Lift—Surface-Drive Systems

Provides requirements for the design, design verification and validation, manufacturing and data control, performance ratings, and repair of progressing cavity pump systems for use in the petroleum and natural gas industry. This standard is applicable to those products meeting the definition of surface-drive systems. Additionally, informative annexes provide information on brake system selection, installation, and operation and sucker rod selection and use. Equipment not covered by this standard, unless integral by design, includes bottom drive systems, sucker rods, polished rod clamps, stuffing boxes, electrical controls, instrumentation, external power transmission devices, auxiliary equipment, such as belts, sheaves, and equipment guards.

This edition of API Std 11D3 is the identical national adoption of ISO 15136-2:2006.

1st Edition | June 2008 | Product Number: G11D301 | Price: $106.00

Spec 11E
Specification for Pumping Units

Provides the requirements and guidelines for the design and rating of beam pumping units for use in the petroleum and natural gas industry. Included are all components between the carrier bar and the speed reducer input shaft. This includes the beam pump structure, the pumping unit gear reducer, and the pumping unit chain reducer. Only loads imposed on the structure and/or gear reducer by the polished rod load are considered in this specification. Also included are the requirements for the design and rating of enclosed speed reducers wherein the involute gear tooth designs include helical and herringbone gearing. The rating methods and influences identified in this specification are limited to single and multiple stage designs applied to beam pumping units in which the pitch-line velocity of any stage does not exceed 5,000 ft/min and the speed of any shaft does not exceed 3,600 r/min. This standard does not cover chemical properties of materials, installation and maintenance of the equipment, beam type counterbalance units, prime movers and power transmission devices outside the gear reducer, or control systems.

This specification is not intended to replace specific instruction provided by the pumping unit manufacturer. This document further establishes certain minimum requirements intended to promote the safe installation, operation, and servicing of pumping unit equipment.

Pages: 26

5th Edition | November 2013 | Product Number: G11G05 | Price: $85.00

TR 11L
Design Calculations for Sucker Rod Pumping Systems (Conventional Units)

Covers recommendations for design calculations for conventional unit sucker rod pumping systems based on test data submitted to API by Sucker Rod Pumping Research, Inc. The topics include vibration characteristics of sucker rod strings, physical characteristics of sucker rods, and dimensional analysis of sucker rod pumping systems. The calculations apply to the broad category of average, normal pumping wells fitting the assumed conditions defined therein. Unusual or out-of-the-ordinary conditions will cause deviations from calculated performance.

Pages: 24

5th Edition | June 2008 | Product Number: G11L05 | Price: $106.00

Bull 11L2
Bulletin on Catalog of Analog Computer Dynamometer Cards

Contains over 1,100 polished rod dynamometer cards taken with the electronic analog simulator and arranged in convenient form for comparison with field tests.

Pages: 77

1st Edition | December 1969 | Reaffirmed: September 1, 1999 | Product Number: G05700 | Price: $122.00

Bull 11L3
Sucker Rod Pumping System Design Book (includes Errata 1 dated November 1973 and Supplement 1 dated February 1977)

Contains print-out tables of computer calculated values for selecting sucker rod systems. Values are included for depths of 200 ft to 12,000 ft in increments of 500 feet, and production rates of 100 barrels per day to over 1,500 barrels per day in varying increments. Various rod string pump stroke, pump size, and pumping speed combinations that will do the job within the limiting parameters are listed.

Pages: 574

1st Edition | May 1970 | Product Number: G05800 | Price: $132.00

TR 11L6
Technical Report on Electric Motor Prime Mover for Beam Pumping Unit Service

Covers polyphase, squirrel-cage, induction motors for use as the prime mover for beam pumping units (size range of 200 hp and below). Motors to be operated from solid-state or other types of variable frequency/variable voltage power supplies for adjustable speed applications will require individual consideration to provide satisfactory performance and are beyond the scope of this document. Motors conforming to this document are suitable for operation in accordance with their full load rating under ambient temperature at a maximum altitude of 1000 m (3300 ft) above sea level with outdoor sever duty application, including blowing dust or snow, corrosive atmospheres, high humidity, and cyclic loading.

Pages: 13

2nd Edition | May 2008 | Product Number: G11L602 | Price: $86.00

TR 11L6 *
Technical Report on Electric Motor Prime Mover for Beam Pumping Unit Service—Chinese


Pages: 13

2nd Edition | May 2008 | Product Number: G11L602C | Price: $61.00

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
Exploration and Production

Fax Orders: 303-397-2740  Online Orders: www.global.ihs.com

RP 11S
Recommended Practice for the Operation, Maintenance and Troubleshooting of Electric Submersible Pump Installations

Covers all of the major components that comprise a standard electric submersible pumping system, their operation, maintenance, and troubleshooting. It is specifically prepared for installations in oil and water producing wells where the equipment is installed on tubing. It is not prepared for equipment selection or application. Pages: 18

Product Number: G11S03 | Price: $83.00

Examples are given to illustrate the basic design procedure and illustrate how PVT correlations, multiphase flow correlations, and inflow performance relationships are used. Summary designs and computer examples using the detailed design principles are presented which show how design considerations fit together and how tools such as computer programs allow faster solutions resulting in easier trial and error calculations for optimization of designs and study of existing installations. Topics such as PVT correlations, multiphase flow correlations, and inflow performance relationships are discussed in the appendices. Pages: 31

Product Number: G11S43 | Price: $79.00

RP 11S1
Recommended Practice for Electrical Submersible Pump Teardown Report

Covers a recommended electrical submersible pump teardown report form. It also includes equipment schematic drawings which may provide assistance in identifying equipment components. These schematics are for generic equipment components, and there may be differences between manufacturers on the exact description or configuration of the assemblies. Pages: 36

Reaffirmed: October 2013 | Product Number: G11S13 | Price: $122.00

RP 11S2
Recommended Practice for Electric Submersible Pump Testing

Provides guidelines and procedures covering electric submersible pump performance testing intended to establish product consistency. These practices are generally considered appropriate for the majority of pump applications. This document covers the acceptance testing of electric submersible pumps (sold as new) by manufacturers, vendors, or users to the prescribed minimum specifications. Pages: 12

2nd Edition | August 1997 | Effective Date: October 1, 1997
Reaffirmed: October 2013 | Product Number: G11S22 | Price: $83.00

RP 11S2 *
Recommended Practice for Electric Submersible Pump Testing—Russian

Russian translation of RP 11S2.

2nd Edition | August 1997 | Product Number: G11S22R | Price: $67.00

RP 11S3
Recommended Practice for Electrical Submersible Pump Installations

Addresses the installation and replacement of all major components comprising an electrical submersible pumping system. Specifically, it addresses equipment installation on tubing in oil and gas production operations. Pages: 11

Product Number: G11S32 | Price: $89.00

RP 11S3 *
Recommended Practice for Electrical Submersible Pump Installations—Russian

Russian translation of RP 11S3.


RP 11S4
Recommended Practice for Sizing and Selection of Electric Submersible Pump Installations

Discusses in some detail each component of the ESP system (pump, motor, intake, seal or protector, cable, switchboard, etc.) as far as what must be considered for the best selection at a desired rate and well conditions.

Examples are given to illustrate the basic design procedure and illustrate how PVT correlations, multiphase flow correlations, and inflow performance relationships are used. Summary designs and computer examples using the detailed design principles are presented which show how design considerations fit together and how tools such as computer programs allow faster solutions resulting in easier trial and error calculations for optimization of designs and study of existing installations. Topics such as PVT correlations, multiphase flow correlations, and inflow performance relationships are discussed in the appendices. Pages: 31

2nd Edition | October 2012 | Product Number: G11S802 | Price: $78.00

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
Specification for Field Welded Tanks for Storage of Production Liquids

Covers material, design, fabrication, and testing requirements for vertical, cylindrical, aboveground, closed and open top, bolted steel storage tanks in various standard sizes and capacities for internal pressures approximately atmospheric. This specification is designed to provide the oil production industry with safe and economical bolted tanks of adequate safety and reasonable economy for use in the storage of crude petroleum and other liquids commonly handled and stored by the production segment of the industry. This specification is for the convenience of purchasers and manufacturers in ordering and fabricating tanks. Pages: 27

11th Edition | October 2008 | Effective Date: March 31, 2009
Product Number: G12J08 | Price: $97.00
You may access Spec 12J in a read-only platform: publications.api.org

Spec 12J *
Specification for Oil and Gas Separators—Russian

Covers minimum requirements for the design, fabrication, and plant testing of oil and gas separators and oil-gas-water separators that are used in the production of oil and gas and are located at some point on the producing flow line between the wellhead and pipeline. Separators covered by this specification may be vertical, spherical, or single or double barrel horizontal. Unless otherwise agreed upon between the purchaser and the manufacturer, the jurisdiction of this specification terminates with the pressure vessel as defined in Division 1 of the ASME Boiler and Pressure Vessel Code. Pressure vessels covered by this specification are normally classified as natural resource vessels. Separators outside the scope of this specification include centrifugal separators, filter separators, and desanding separators. Pages: 25

8th Edition | October 2008 | Effective Date: March 31, 2009
Product Number: G12J08R | Price: $78.00
You may access Spec 12K in a read-only platform: publications.api.org

Spec 12K *
Specification for Oil and Gas Separators—Chinese

Covers minimum requirements for the design, fabrication, and plant testing of oilfield indirect type fired heaters that are used in the production of oil, gas, and associated fluid. The heaters are located at some point on the producing flowline between the wellhead and pipeline. Heater components covered by this specification include the pressurized coils, the shell, heater bath, firetube, and the firing system. For purposes of this specification, the termination of a heater coil is at the first bevel when coils are furnished beveled for welding, or the face of the first fitting when fittings are furnished as the inlet or outlet connection to the coil. All fittings and valves between the inlet and outlet of the coil are to be considered within the coil limit. Heaters outside the scope of this specification include steam and other vapor generators, reboilers, indirect heaters employing heat media other than water solutions, all types of direct fired heaters, shell-and-tube bundles or electrical heating elements, and coils operating at temperatures less than −20 °F. Pages: 35

8th Edition | October 2008 | Effective Date: March 31, 2009
Product Number: G12K08 | Price: $115.00
You may access Spec 12K in a read-only platform: publications.api.org

Spec 12J *
Specification for Oil and Gas Separators—Russian

Covers minimum requirements for the design, fabrication, and plant testing of oil and gas separators and oil-gas-water separators that are used in the production of oil and gas and are located at some point on the producing flow line between the wellhead and pipeline. Separators covered by this specification may be vertical, spherical, or single or double barrel horizontal. Unless otherwise agreed upon between the purchaser and the manufacturer, the jurisdiction of this specification terminates with the pressure vessel as defined in Section VII, Division 1 of the ASME Boiler and Pressure Vessel Code. Pressure vessels covered by this specification are normally classified as natural resource vessels. Separators outside the scope of this specification include centrifugal separators, filter separators, and desanding separators. Pages: 25

8th Edition | October 2008 | Effective Date: March 31, 2009
Product Number: G12J08C | Price: $68.00

Spec 12J *
Specification for Oil and Gas Separators—Chinese

Covers minimum requirements for the design, fabrication, and plant testing of oilfield indirect type fired heaters that are used in the production of oil, gas, and associated fluid. The heaters are located at some point on the producing flowline between the wellhead and pipeline. Heater components covered by this specification include the pressurized coils, the shell, heater bath, firetube, and the firing system. For purposes of this specification, the termination of a heater coil is at the first bevel when coils are furnished beveled for welding, or the face of the first fitting when fittings are furnished as the inlet or outlet connection to the coil. All fittings and valves between the inlet and outlet of the coil are to be considered within the coil limit. Heaters outside the scope of this specification include steam and other vapor generators, reboilers, indirect heaters employing heat media other than water solutions, all types of direct fired heaters, shell-and-tube bundles or electrical heating elements, and coils operating at temperatures less than −20 °F. Pages: 35

8th Edition | October 2008 | Effective Date: March 31, 2009
Product Number: G12J08C | Price: $68.00
You may access Spec 12K in a read-only platform: publications.api.org

Spec 12K *
Specification for Oil and Gas Separators—Chinese

Covers minimum requirements for the design, fabrication, and plant testing of oilfield indirect type fired heaters that are used in the production of oil, gas, and associated fluid. The heaters are located at some point on the producing flowline between the wellhead and pipeline. Heater components covered by this specification include the pressurized coils, the shell, heater bath, firetube, and the firing system. For purposes of this specification, the termination of a heater coil is at the first bevel when coils are furnished beveled for welding, or the face of the first fitting when fittings are furnished as the inlet or outlet connection to the coil. All fittings and valves between the inlet and outlet of the coil are to be considered within the coil limit. Heaters outside the scope of this specification include steam and other vapor generators, reboilers, indirect heaters employing heat media other than water solutions, all types of direct fired heaters, shell-and-tube bundles or electrical heating elements, and coils operating at temperatures less than −20 °F. Pages: 35

8th Edition | October 2008 | Effective Date: March 31, 2009
Product Number: G12K08C | Price: $81.00
You may access Spec 12K in a read-only platform: publications.api.org

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
recommended practice is intended primarily for application to tanks in production service, but its basic principles are applicable to atmospheric tanks fabricated to API Specs 12F, 12D, 12F, and 12P when employed in on-land environments. The specification considers tanks through which heat is applied to the water and/or emulsion to aid in the separation of gas from liquids in a vessel referred to as a treater or sometimes as a heater treater. High gas-oil ratio wells or those produced by gas lift may require the installation of an oil and gas separator upstream of the treater to remove most of the associated gas before the emulsion enters the treater. Where the water to oil ratio is high, freewater knockouts may be required upstream of the treater.

The specification includes requirements for material, design, fabrication, and testing of vertical and horizontal emulsion treaters. Emulsion treaters are usually equipped with one or more removable firetubes or heat exchange elements through which heat is applied to the water and/or emulsion to aid in the emulsion breaking process.

5th Edition | October 2008 | Effective Date: March 31, 2009
Product Number: G12L05 | Price: $97.00

RP 12N
Recommended Practice for the Operation, Maintenance and Testing of Firebox Flame Arrestors
Covers practices that should be considered in the installation, maintenance, and testing of firebox flame arrestors installed on the air intake of oilfield production equipment.

Product Number: G12N02 | Price: $83.00

Spec 12P
Specification for Fiberglass Reinforced Plastic Tanks
Covers material, design, fabrication, and testing requirements for fiberglass reinforced plastic (FRP) tanks. Only shop-fabricated, vertical, cylindrical tanks are covered. Tanks covered by this specification are intended for aboveground and atmospheric pressure service at various sizes and capacities ranging from 90 to 1500 barrels. Unsupported cone bottom tanks are outside the scope of this specification. Standard designs are based on a maximum working pressure equal to the hydrostatic head of the stored fluid plus 6 in. of water column (0.217 psig) and 2 in. of water column vacuum. Design criteria are dependent on method of construction. Filament winding, chop-spray, and combinations of these methods (commonly referred to as chop-hoop) are covered. Tanks constructed using hand lay-up (contact molding) are to be designed to the same standard as chop-spray construction.

3rd Edition | October 2008 | Effective Date: March 31, 2009
Product Number: G12P03 | Price: $97.00
You may access Spec 12P in a read-only platform: publications.api.org

RP 12R1
Recommended Practice for Setting, Maintenance, Inspection, Operation, and Repair of Tanks in Production Service
Should be considered as a guide on new tank installations and maintenance of existing tanks. It contains recommendations for good practices in the collection of well or lease production; gauging; delivery to pipeline carriers for transportation; and other production storage and treatment operations. This recommended practice is intended primarily for application to tanks fabricated to API Specs 12F, 12D, 12F, and 12P when employed in on-land production service, but its basic principles are applicable to atmospheric tanks of other dimensions and specifications when they are employed in similar oil and gas production, treating, and processing services. It is not applicable to refineries, petrochemical plants, marketing bulk stations, or pipeline storage facilities operated by carriers.

Product Number: G12R15 | Price: $132.00

DRILLING FLUID MATERIALS
Spec 13A/ISO 13500:2009
Specification for Drilling Fluid Materials
(includes Errata 1 dated August 2014)
Covers physical properties and test procedures for materials manufactured for use in oil- and gas-well drilling fluids. The materials covered are barite, haematite, bentonite, nontreated bentonite, OCMA-grade bentonite, attapulgite, sepiolite, technical-grade low-viscosity carboxymethylcellulose (CMC-LVT), technical-grade high-viscosity carboxymethylcellulose (CMC-HVT), starch, low-viscosity polyanionic cellulose (PAC-LV), high-viscosity polyanionic cellulose (PAC-HVT), drilling-grade Xanthan gum, and barite 4.1.

This International Standard is intended for the use of manufacturers of named products.

This edition of API Spec 13A is the identical national adoption of ISO 13500:2009. This specification contains the API Monogram Annex as part of the U.S. national adoption.

18th Edition | February 2010 | Effective Date: August 1, 2010
Product Number: GX13A018 | Price: $181.00

Spec 13A/ISO 13500:2009 *
Specification for Drilling Fluid Materials—Chinese
Chinese translation of Spec 13A.

18th Edition | February 2010
Product Number: GX13A018C | Price: $127.00

RP 13B-1/ISO 10414-1:2008
Recommended Practice for Field Testing Water-Based Drilling Fluids
(includes Errata 1 dated August 2014)
Provides standard procedures for determining the following characteristics of water-based drilling fluids:

- drilling fluid density (mud weight);
- viscosity and gel strength;
- filtration;
- water, oil, and solids contents;
- sand content;
- methylene blue capacity;
- pH;
- alkalinity and lime content;
- chloride content;
- total hardness as calcium.

Annexes A through K provide additional test methods.

This edition of API 13B-1 is the identical national adoption of ISO 10414-1:2008.

Product Number: GX13B14 | Price: $165.00
You may access RP 13B-1 in a read-only platform: publications.api.org

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
Recommended Practice for Field Testing Oil-Based Drilling Fluids (includes Errata 1 dated August 2014)
Provides standard procedures for determining the following characteristics of oil-based drilling fluids:
- drilling fluid density (mud weight);
- viscosity and gel strength;
- filtration;
- oil, water, and solids concentrations;
- alkalinity, chloride concentration, and calcium concentration;
- electrical stability;
- lime and calcium concentrations, calcium chloride, and sodium chloride concentrations;
- low-gravity solids and weighting material concentrations.
The annexes provide additional test methods or examples that can optionally be used for the determination of:
- shear strength (Annex A);
- oil and water concentrations from cuttings (Annex B);
- drilling fluid activity (Annex C);
- aniline point (Annex D);
- lime, salinity, and solids concentration (Annex E);
- sampling, inspection, and rejection (Annex F);
- rig site sampling (Annex G);
- cuttings activity (Annex H);
- active sulfide (Annex I);
- calibration and verification of glassware, thermometers, viscometers, retort kit cups, and drilling fluid balances (Annex J);
- high-temperature/high-pressure filtration using the permeability-plugging apparatus (PPA) (Annex K);
- elastomer compatibility (Annex L);
- sand content of oil-based fluid (Annex M);
- identification and monitoring of weight-material sag (Annex N);
- oil-based drilling fluid test report form (Annex O). Pages: 141
5th Edition | April 2014 | Product Number: G13B205 | Price: $205.00
You may access RP 13B-2 in a read-only platform: publications.api.org

RP 13C
Recommended Practice on Drilling Fluid Processing Systems Evaluation
Specifies a standard procedure for assessing and modifying the performance of solids control equipment systems commonly used in the field in petroleum and natural gas drilling fluids processing. The procedure described in this standard is not intended for the comparison of similar types of individual pieces of equipment. Pages: 60
5th Edition | October 2014 | Product Number: G13C05 | Price: $135.00

RP 13D
Rheology and Hydraulics of Oil-Well Fluids
Provides a basic understanding of and guidance about drilling fluid rheology and hydraulics, and their application to drilling operations. For this RP, rheology is the study of flow characteristics of a drilling fluid and how these characteristics affect movement of the fluid. Specific measurements are made on a fluid to determine rheological parameters under a variety of conditions. From this information the circulating system can be designed or evaluated regarding how it will accomplish certain desired objectives. Pages: 79
6th Edition | May 2010 | Product Number: G13D06 | Price: $134.00

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersed the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
Exploration and Production

Fax Orders: 303-397-2740

RP 13L
Recommended Practice for Training and Qualification of Drilling Fluid Technologists
Summarizes basic training and knowledge that an employee or contractor shall possess to be identified as a drilling fluids technologist. This RP seeks to formalize the specific knowledge base, professional skills, and application skills needed to ensure the competency and professionalism of individuals working in the drilling fluids industry. Drilling fluids technologists should use this RP as an outline to self-determine any gaps in learning and seek to improve their skills. A company contracting the service of a drilling fluids technologist should use this RP as a checklist of knowledge that a technologist should be able to demonstrate proficiency in applying. Pages: 7
1st Edition | February 2003 | Reaffirmed: October 2010
Product Number: G13L01 | Price: $53.00

RP 13M/ISO 13503-1:2003
Recommended Practice for the Measurement of Viscous Properties of Completion Fluids
Provides methods for measuring the viscosity of completion fluids used in the petroleum and natural gas industries. Specific methods are also provided to determine the rheological properties of a fluid. This edition of API RP 13M is the identical national adoption of ISO 13503-1:2003. Pages: 21
1st Edition | July 2004 | Reaffirmed: October 2010
Product Number: GX13M01 | Price: $98.00

Recommended Practice for Measuring Stimulation and Gravel-Pack Fluid Leakoff Under Static Conditions
Provides consistent methodology to measure fluid loss of stimulation and gravel-pack fluid under static conditions. However, the procedure in this recommended practice excludes fluids that react with porous media. This edition of API RP 13M-4 is the identical national adoption of ISO 13503-4:2006. Pages: 14
1st Edition | December 2006 | Product Number: GG13M41 | Price: $57.00

OFFSHORE SAFETY AND ANTIPOLLUTION

Spec 14A
Specification for Subsurface Safety Valve Equipment
Provides the requirements for subsurface safety valves (SSSVs), and the secondary tools as defined herein necessary to operate the features included within them, including all components that establish tolerances and/or clearances that may affect performance or interchangeability of the SSSV components. It includes repair operations and the interface connections to control conduits and/or other equipment, but does not cover the connections to the primary well conduit. Pages: 140
Product Number: G14A12 | Price: $225.00
You may access Spec 14A in a read-only platform: publications.api.org

RP 14B/ISO 10417:2004
Design, Installation, Repair and Operation of Subsurface Safety Valve Systems
Establishes requirements and provides guidelines for configuration, installation, test, operation, and documentation of subsurface safety valve (SSSV) systems. In addition, this standard establishes requirements and provides guidelines for selection, handling, redress, and documentation of SSSV downhole production equipment.
This edition of API RP 14B is the identical national adoption of ISO 10417:2004. Pages: 31
Product Number: GX14B05 | Price: $115.00
You may access RP 14B in a read-only platform: publications.api.org

RP 14C
Recommended Practice for Analysis, Design, Installation, and Testing of Basic Surface Safety Systems for Offshore Production Platforms
Provides for consistent methodology to measure fluid loss of stimulation and gravel-pack fluid under static conditions. However, the procedure in this recommended practice excludes fluids that react with porous media. This edition of API RP 13M-4 is the identical national adoption of ISO 13503-4:2006. Pages: 14
1st Edition | December 2006 | Product Number: GG13M41 | Price: $57.00

RP 14E
Recommended Practice for Design and Installation of Offshore Production Platform Piping Systems
Recommends minimum requirements and guidelines for the design and installation of new piping systems on offshore production platforms. Includes general recommendations on design and application of pipe, valves, and fittings for typical processes; general information on installation, quality control, and items related to piping systems such as insulation; and specific recommendations for the design of particular piping systems. Pages: 61
2-Year Extension: December 2012
Product Number: G07185 | Price: $149.00
You may access RP 14E in a read-only platform: publications.api.org

RP 14F
Design, Installation, and Maintenance of Electrical Systems for Fixed and Floating Offshore Petroleum Facilities for Unclassified and Class I, Division 1, and Division 2 Locations
Recommends minimum requirements and guidelines for the design, installation, and maintenance of electrical systems on fixed and floating petroleum facilities located offshore. For facilities classified as Zone 0, Zone 1, or Zone 2, refer to API RP 14FZ. These facilities include drilling, producing, and pipeline transportation facilities associated with oil and gas exploration and production. This recommended practice (RP) is not applicable to Mobile Offshore Drilling Units (MODUs) without production facilities. This document is intended to bring together in one place a brief description of basic desirable electrical practices for offshore electrical systems. The recommended practices contained herein recognize that special electrical considerations exist for offshore petroleum facilities. Pages: 150
Product Number: G14F05 | Price: $119.00
You may access RP 14F in a read-only platform: publications.api.org

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall replace or supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
Exploration and Production

RP 14FZ
Recommended Practice for Design, Installation, and Maintenance of Electrical Systems for Fixed and Floating Offshore Petroleum Facilities for Unclassified and Class I, Zone 0, Zone 1, and Zone 2 Locations

Provides minimum requirements and guidelines for the design, installation, and maintenance of electrical systems on fixed and floating petroleum facilities located offshore. For facilities classified as Division 1 or Division 2, reference API RP 14F. These facilities include drilling, producing, and pipeline transportation facilities associated with oil and gas exploration and production. This recommended practice (RP) is not applicable to Mobile Offshore Drilling Units (MODUs) without production facilities. This document is intended to bring together in one place a brief description of basic desirable electrical practices for offshore electrical systems. The recommended practices contained herein recognize that special electrical considerations exist for offshore petroleum facilities. These include:

- inherent electrical shock possibility presented by the marine environment and steel decks;
- spaces and locations that require that equipment be installed in or near hazardous (classified) locations;
- corrosive marine environment;
- motion and buoyancy concerns associated with floating facilities.

Pages: 177

2nd Edition | May 2013 | Product Number: G14FZ02 | Price: $280.00
You may access RP 14FZ in a read-only platform: publications.api.org

RP 14G
Recommended Practice for Fire Prevention and Control on Fixed-Open Type Offshore Production Platforms

Provides useful procedures and guidelines for planning, designing, and arranging offshore production facilities and performing a hazards analysis on open-type offshore production facilities. Discusses several procedures that can be used to perform a hazards analysis, and presents minimum requirements for process safety information and hazards analysis that can be used for satisfying API RP 75. Pages: 75

Product Number: G14G04 | Price: $124.00
You may access RP 14G in a read-only platform: publications.api.org

RP 14J
Recommended Practice for Design and Hazards Analysis for Offshore Production Facilities

Formulated to provide for the availability of safe, dimensionally and functionally interchangeable high pressure fiberglass line pipe with a Spec 15HR Standard Pressure Rating from 500 psi to 5000 psi, inclusive, in 250 psi increments. This specification is limited to mechanical connections. Pages: 25

3rd Edition | August 2001 | Reaffirmed: October 2010
Product Number: G15HR3 | Price: $97.00

Spec 15HR

Specification for High Pressure Fiberglass Line Pipe—Chinese Translation

Chinese translation of Spec 15HR.

3rd Edition | August 2001 | Product Number: G15HR3C | Price: $68.00

---

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersedes the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
**Exploration and Production**

**Fax Orders:** 303-397-2740 **Online Orders:** www.global.ihs.com

---

**Spec 15LE**

*Specification for Polyethylene Line Pipe (PE)*

Provides standards for polyethylene (PE) line pipe suitable for use in conveying oil, gas, and non-potable water in underground, aboveground, and reline applications for the oil and gas producing industries. The technical content of this document provides requirements and guidelines for performance, design, materials inspection, dimensions and tolerances, marking, handling, storing, and shipping. Pages: 38

4th Edition | January 2008 | Effective Date: July 1, 2008
Reaffirmed: October 2013 | Product Number: G15LE4 | Price: $101.00

---

**Spec 15LE**

*Specification for Polyethylene Line Pipe (PE)—Chinese*

Chinese translation of Spec 15LE.


---

**Spec 15LR**

*Specification for Low Pressure Fiberglass Line Pipe*

Covers filament wound (FW) and centrifugally cast (CC) fiberglass line pipe and fittings for pipe in diameters up to and including 24 in. in diameter and up to and including 1000 psig cyclic operating pressures. In addition, at the manufacturer's option, the pipe may also be rated for static operating pressures up to 1000 psig. It is recommended that the pipe and fittings be purchased by cyclic pressure rating. The standard pressure ratings range from 150 psig to 300 psig in 50 psig increments, and from 300 psig to 1000 psig in 100 psig increments, based on either cyclic pressure or static pressure. Pages: 25

7th Edition | August 2001 | Effective Date: February 1, 2002
Reaffirmed: October 2013 | Product Number: G15LR7 | Price: $97.00

---

**Spec 15LR**

*Specification for Low Pressure Fiberglass Line Pipe—Chinese*

Chinese translation of Spec 15LR.

7th Edition | August 2001 | Product Number: G15LR7C | Price: $68.00

---

**RP 15S**

*Qualification of Spoolable Reinforced Plastic Line Pipe*

Provides guidelines for the design, manufacture, qualification, and application of spoolable reinforced plastic line pipe in oilfield flowline applications, including transport of multiphase fluids, hydrocarbon gases, hydrocarbon liquids, and water. Such products typically consist of a continuous plastic liner reinforced with either glass reinforced epoxy-Spoolable Composite Pipe (SCP), or aramid fibers-Reinforced Thermoplastic Pipe (RTP). They are continuous flowline systems capable of being reeled for storage, transport, and installation. For offshore use, additional requirements may apply. Pages: 26

Product Number: G15SS01 | Price: $97.00

---

**RP 15TL4**

*Recommended Practice for Care and Use of Fiberglass Tubulars*

Provides information on the transporting, handling, installing, and reconditioning of fiberglass tubulars in oilfield usage. Appendices are also included to cover adhesive bonding, repair procedures, and inspection practices. Pages: 20

Product Number: G15TL4 | Price: $97.00

---

**Spec 16A/ISO 13533:2001**

*Specification for Drill-Through Equipment*

Provides requirements for performance, design, materials, testing and inspection, welding, marking, handling, storing, and shipping of drill-through equipment used for drilling for oil and gas. It also defines service conditions in terms of pressure, temperature, and wellbore fluids for which the equipment will be designed. This specification is applicable to and establishes requirements for the following specific equipment:

- ram blowout preventers;
- ram blocks, packers, and top seals;
- annular blowout preventers;
- annular packing units;
- hydraulic connectors;
- drilling spools;
- adapters;
- loose connections;
- clamps.

This International Standard does not apply to field use or field testing of drill-through equipment.

This edition of API RP 16A is the modified national adoption of ISO 13533:2001. Pages: 109

3rd Edition | June 2004 | Effective Date: December 1, 2004
Reaffirmed: August 2010 | Under Revision
Product Number: GX16A03 | Price: $165.00

---

**Spec 16A/ISO 13533:2001**

*Specification for Drill-Through Equipment—Chinese*

Chinese translation of Spec 16A.

3rd Edition | June 2004 | Product Number: GX16A03C | Price: $116.00

---

**Spec 16C**

*Specification for Choke and Kill Systems*

Provides for safe and functionally interchangeable surface and subsea choke and kill systems equipment utilized for drilling and gas wells. Other parts of the choke and kill system not specifically addressed in this document shall be in accordance with the applicable sections of this specification. Technical content of this document provides the minimum requirement for performance, design, materials, welding, testing, inspection, storing, and shipping. Pages: 61

1st Edition | January 1993 | Reaffirmed: July 2010 | Under Revision
Product Number: G07242 | Price: $132.00

---

**Spec 16C**

*Specification for Choke and Kill Systems—Chinese*

Chinese translation of Spec 16C.

1st Edition | January 1993 | Product Number: G07242C | Price: $93.00

---

**Spec 16C**

*Specification for Choke and Kill Systems—Kazakh*

Kazakh translation of Spec 16C.

1st Edition | January 1993 | Product Number: G07242K | Price: $106.00

---

**Spec 16C**

*Specification for Choke and Kill Systems—Russian*

Russian translation of Spec 16C.

1st Edition | January 1993 | Product Number: G07242R | Price: $105.00

---

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersed the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.*
The requirements provided in this specification apply to the following control of the BOP control system and therefore are included in this specification.

- control systems for surface mounted BOP stacks;
- control systems for subsea BOP stacks (common elements);
- discrete hydraulic control systems for subsea BOP stacks;
- electro-hydraulic/multiplex control systems for subsea BOP stacks;
- control systems for diverter equipment;
- auxiliary equipment control systems and interfaces;
- emergency disconnect sequenced systems;
- backup systems;
- special deepwater/harsh environment features. Pages: 97

**Spec 16D**

Specification for Control Systems for Drilling Well Control Equipment and Control Systems for Diverter Equipment

Establishes design standards for systems used to control blowout preventers (BOPs) and associated valves that control well pressure during drilling operations. The design standards applicable to subsystems and components do not include material selection and manufacturing process details but may serve as an aid to the purchaser. Although diverters are not considered well control devices, their controls are often incorporated as part of the BOP control system and therefore are included in this specification. The requirements provided in this specification apply to the following control system categories:

- riser running equipment;
- drape hoses and jumper lines for flex/ball joints;
- flex/ball joints;
- connection of the lower flex/ball joint. It specifically excludes the diverter, between the top connection of the upper flex/ball joint and the bottom connection of the lower flex/ball joint. It specifically excludes the diverter, LMRP, BOP stack, and hydraulic connectors. Pages: 48

1st Edition | January 1997 | Effective Date: June 1, 1997
Reaffirmed: August 2010 | Under Revision
Product Number: G16R01 | Price: $97.00

**Spec 16R**

Specification for Marine Drilling Riser Couplings (replaces API RP 2R)

Covers the design, rating, manufacturing, and testing of marine drilling riser couplings. Coupling capacity ratings are established to enable the grouping of coupling models according to their maximum stresses developed under specific levels of loading, regardless of manufacturer or method of make-up. This specification relates directly to API 16Q, which covers the design, selection, and operation of the marine drilling riser system as a whole. Pages: 18

1st Edition | February 2005 | Reaffirmed: August 2013
Product Number: G16R01 | Price: $151.00

**Spec 16Q**

Recommended Practice for Design, Selection, Operation and Maintenance of Marine Drilling Riser Systems (formerly API RP 2Q and RP 2K)

Pertains to the design, selection, operation, and maintenance of marine riser systems for floating drilling operations. Its purpose is to serve as a reference for designers, for those who select system components, and for those who use and maintain this equipment. For the purposes of this standard, a marine drilling riser system includes the tensioner system and all equipment between the top connection of the upper flex/ball joint and the bottom connection of the lower flex/ball joint. It specifically excludes the diverter, LMRP, BOP stack, and hydraulic connectors. Pages: 48

1st Edition | November 1993 | Reaffirmed: August 2010 | Under Revision
Product Number: G07249 | Price: $109.00

**Spec 16RCD**

Specification for Drill Through Equipment—Rotating Control Devices

Formulated to provide for the availability of safe and functionally interchangeable rotating control devices (RCDs) utilized in air drilling, drilling operations for oil and gas, and in geothermal drilling operations. Technical content provides requirements for design, performance, materials, tests and inspection, welding, marking, handling, storing, and shipping. This specification does not apply to field use or fieldtesting of RCDs. Critical components are those parts having requirements specified in this document. Pages: 71

1st Edition | February 2005 | Reaffirmed: August 2013
Product Number: G16RCD01 | Price: $151.00

**Spec 16RC**

Specification for Drill Through Equipment—Rotating Control Devices—Kazakh

Kazakh translation of Spec 16RCD.

1st Edition | February 2005
Product Number: G16RCD01K | Price: $121.00

**Spec 16RCD**

Specification for Drill Through Equipment—Rotating Control Devices—Russian

Russian translation of Spec 16RCD.

1st Edition | February 2005
Product Number: G16RCD01R | Price: $120.00

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
Recommended Practice for Diverter Systems Equipment and Operations—Russian

Russian translation of RP 64.

2nd Edition | November 2001 | Product Number: G64002R | Price: $85.00

SUBSEA PRODUCTION SYSTEMS

RP 17A/ISO 13628-1:2005

Design and Operation of Subsea Production Systems—General Requirements and Recommendations (includes Addendum 1 dated December 2010)

Provides guidelines for the design, installation, operation, repair, and decommissioning of subsea production systems. The elements of subsea production systems included are wellheads (both subsea and mudline casing suspension systems) and trees; pipelines and end connections; controls, control lines, and control fluids; templates and manifolds; and production riser (both rigid and flexible). Other sections cover operations, quality assurance, materials, and corrosion. This is intended as an umbrella document to govern other parts of the subsea document suite of standards dealing with more detailed requirements for the subsystems which typically form part of a subsea production system. However, in some areas (e.g. system design, structures, manifolds, lifting devices, and color and marking) more detailed requirements are included herein, as these subjects are not covered in a subsystem standard. The complete subsea production system comprises several subsystems necessary to produce hydrocarbons from one or more subsea wells and transfer them to a given processing facility located offshore (fixed, floating, or subsea) or onshore, or to inject water/gas through subsea wells. Specialized equipment, such as split trees and trees and manifolds in atmospheric chambers, are not specifically discussed because of their limited use. However, the information presented is applicable to those types of equipment.

This edition of API RP 17A is the identical national adoption of ISO 13628:2005. Pages: 232

Product Number: GX17A04 | Price: $182.00

Recommended Practice for Flexible Pipe

Provides guidelines for the design, analysis, manufacture, testing, installation, and operation of flexible pipes and flexible pipe systems for onshore, subsea, and marine applications. This RP supplements API Specs 17J and 17K, which specify minimum requirements for the design, material selection, manufacture, testing, marking, and packaging of unbonded and bonded flexible pipe, respectively. This RP 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, this RP applies to flexible pipe systems, including ancillary components. The applications covered by this RP are sweet- and sour-service production, including export and injection applications. This RP applies to both static and dynamic flexible pipe systems used as flowlines, risers, and jumpers. This RP does cover, in general terms, the use of flexible pipes for offshore loading systems. This RP does not cover flexible pipes for use in choke and kill lines or umbilical and control lines. Pages: 268

5th Edition | May 2014 | Product Number: G017B05 | Price: $230.00

Recommended Practice on TFL (Through Flowline) Systems

Presents recommendations for designing, fabricating, and operating TFL (through flowline) equipment. Procedures and guidelines presented are for hydraulic servicing of downhole equipment, subsea tree and tubing hanger, and pipelines and equipment within the pipelines. This document primarily addresses TFL systems for offshore, subsea applications but it may also be
This publication is a new entry in this catalog.

This publication is related to an API licensing, certification, or accreditation program.

used in other applications such as highly deviated wells or horizontally drilled wells. Subsea separation, boosting, metering, and downhole pumps are outside the scope of this document.

This edition of API RP 17C is the identical national adoption of ISO 13628-3:2000. Pages: 67

Product Number: GX17C02 | Price: $125.00

Spec 17D/ISO 13628-4

Design and Operation of Subsea Production Systems—Subsea Wellhead and Tree Equipment
(includes Errata 1 dated September 2011, Errata 2 dated January 2012, Errata 3 dated June 2013, Errata 4 dated July 2013, and Errata 5 dated October 2013)

Provides specifications for subsea wellheads, mudline wellheads, drill-through mudline wellheads, and both vertical and horizontal subsea trees. It specifies the associated tooling necessary to handle, test, and install the equipment. It also specifies the areas of design, material, welding, quality control (including factory acceptance testing), marking, storing, and shipping for both individual sub-assemblies (used to build complete subsea tree assemblies) and complete subsea tree assemblies. The user is responsible for ensuring subsea equipment meets any additional requirements of governmental regulations for the country in which it is installed. This is outside the scope of this document. Where applicable, this document can also be used for equipment on satellite, cluster arrangements and multiple well template applications. This document includes equipment definitions, an explanation of equipment use and function, an explanation of service conditions and product specification levels, and a description of critical components. This document is not applicable to the rework and repair of used equipment.

This edition of API Spec 17E is the identical national adoption of ISO 13628-4. Pages: 254

2nd Edition | May 2011 | Effective Date: November 1, 2011
Product Number: GX17D02 | Price: $186.00
You may access Spec 17D in a read-only platform: publications.api.org

Spec 17D

Design and Operation of Subsea Production Systems—Subsea Wellhead and Tree Equipment—Chinese

Chinese translation of Spec 17D.

2nd Edition | May 2011 | Product Number: GX17D02C | Price: $131.00

Spec 17E/ISO 13628-5:2009

Specification for Subsea Umbilicals

Specifies requirements and gives recommendations for the design, material selection, manufacture, design verification, testing, installation, and operation of subsea control systems, chemical injection, gas lift, utility and service umbilicals, and associated ancillary equipment for the petroleum and natural gas industries. This also applies to umbilicals containing electrical conductors, optical fibers, thermoplastic hoses, and metallic tubes, either alone or in combination, and applies to umbilicals that are for static or dynamic service, and with routings of surface-surface, surface-subsea, and subsea-subsea.

This edition of API Spec 17E is the identical national adoption of ISO 13628-5:2009. Pages: 167

4th Edition | October 2010 | Effective Date: April 1, 2011
Product Number: GX17E04 | Price: $194.00

Spec 17F

Standard for Subsea Production Control Systems

Applies to design, fabrication, testing, installation, and operation of subsea production control systems. Spec 17F covers surface control system equipment, subsea-installed control system equipment, and control fluids.

This equipment is utilized for control of subsea production of oil and gas and for subsea water and gas injection services. Where applicable, this specification may be used for equipment on multiple-well applications. This document establishes design standards for systems, subsystems, components, and operating fluids in order to provide for the safe and functional control of subsea production equipment. It contains various types of information related to subsea production control systems that includes; informative data that provide an overview of the architecture and general functionality of control systems for the purpose of introduction and information; basic prescriptive data that shall be adhered to by all types of control system; selective prescriptive data that are control-system-type sensitive and shall be adhered to only when they are relevant; and optional data or requirements that need be adopted only when considered necessary either by the purchaser or the vendor. In view of the diverse nature of the data provided, control system purchasers and specifiers are advised to select from this document only the provisions needed for the application at hand. Repair and rework of used equipment are beyond the scope of this specification. Pages: 114

3rd Edition | May 2014 | Product Number: G017F03 | Price: $220.00

RP 17G/ISO 13628-7:2005

Recommended Practice for Completion/Workover Riser

Gives requirements and recommendations for the design, analysis, materials, fabrication, testing, and operation of subsea completion/workover (C/WO) riser systems run from a floating vessel. This document is intended to serve as a common reference for designers, manufacturers, and operators/users, thereby reducing the need for company specifications. This recommended practice is limited to risers, manufactured from low alloy carbon steels. Risers fabricated from special materials such as titanium, composite materials, and flexible pipes are beyond the scope of this document. Specific equipment covered is listed as follows: riser joints; connectors; workover control systems; surface flow trees; surface tree tension frames; lower workover riser packages; lubricator valves; retainer valves; subsea test trees; shear subs; tubing hanger orientation systems; swivels; annulus circulation hoses; riser spiders; umbilical clamps; handling and test tools; and tree cap running tools. Associated equipment not covered includes: tubing hangers; internal and external tree caps; tubing hanger running tools; surface coiled tubing units; surface wireline units; and surface tree kill and production jumpers.

This edition of API RP 17G is the identical national adoption of ISO 13628-7:2005. Pages: 242

Product Number: GX17G02 | Price: $182.00

RP 17H

Remotely Operated Tools and Interfaces on Subsea Production Systems

(includes Errata 1 dated January 2014)

Provides recommendations for development and design of remotely operated subsea tools and interfaces on subsea production systems in order to maximize the potential of standardizing equipment and design principles. This document does not cover manned intervention, internal wellbore intervention, internal flowline inspection, tree running, and tree running equipment. However, all the related subsea remotely operated vehicle (vehicle/vehicle) interfaces are covered by this standard. It is applicable to the selection, design, and operation of ROVs and ROVs including ROV tooling, hereafter defined in a common term as subsea intervention systems.

This document was written to include the information from RP 17M, 1st Edition (2004). With the release of API RP 17H, 2nd Edition (2013), RP 17M is withdrawn. Pages: 83

2nd Edition | June 2013 | Product Number: G17H02 | Price: $160.00
You may access RP 17H in a read-only platform: publications.api.org

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersed the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
Spec 17J  ●  Specification for Unbonded Flexible Pipe

Defines the technical requirements for safe, dimensionally and functionally interchangeable flexible pipes that are designed and manufactured to uniform standards and criteria. Minimum requirements are specified for the design, material selection, manufacture, testing, marking, and packaging of flexible pipes, with reference to existing codes and standards where applicable. See API RP 17B for guidelines on the use of flexible pipes and ancillary components. This specification applies to unbonded flexible pipe assemblies, consisting of segments of flexible pipe body with end fittings attached to both ends. This specification does not cover flexible pipes of bonded structure. This specification does not apply to flexible pipe ancillary components. Guidelines for bend stiffeners and bend reducers are given in Annex B. This specification does not apply to flexible pipes that include non-metallic tensile armour wires. Pipes of such construction are considered as prototype products subject to qualification testing. The applications addressed by this document are sweet and sour service production, including export and injection applications. Production products include oil, gas, water, and injection chemicals. This specification applies to both static and dynamic flexible pipes used as flowlines, risers, and jumpers. This specification does not apply to flexible pipes for use in choke-and-kill line applications. Pages: 90

4th Edition  |  May 2014  |  Product Number: G017J04  |  Price: $135.00
You may access Spec 17J in a read-only platform: publications.api.org

Spec 17K/ISO 13628-10:2005  ●  Specification for Bonded Flexible Pipe

Defines the technical requirements for safe, dimensionally and functionally interchangeable bonded flexible pipes that are designed and manufactured to uniform standards and criteria. Minimum requirements are specified for the design, material selection, manufacture, testing, marking, and packaging of bonded flexible pipes, with reference to existing codes and standards where applicable. This document applies to bonded flexible pipe assemblies, consisting of segments of flexible pipe body with end fittings attached to both ends. It does not cover flexible pipes of unbonded structure or to flexible pipe ancillary components. This document can be applied to flexible pipes that include non-metallic reinforcing layers, though no effort was made to address the specific and unique technological aspects of this product.

This edition of API Spec 17K is the identical national adoption of ISO 13628-10:2005. Pages: 74

2nd Edition  |  November 2005  |  Effective Date: May 1, 2006
Reaffirmed: May 2010  |  Product Number: GX17K02  |  Price: $151.00


Defines the technical requirements for safe, dimensionally and functionally interchangeable flexible pipe ancillary equipment that is designed and manufactured to uniform standards and criteria. Minimum requirements are specified for the design, material selection, manufacture, testing, documentation, marking, and packaging of flexible pipe ancillary equipment, with reference to existing codes and standards where applicable. The applicability relating to a specific item of ancillary equipment is stated at the beginning of the particular clause for the ancillary equipment in question. This document applies to the following flexible pipe ancillary equipment: bend stiffeners; bend reducers; bellmouths; buoyancy modules and ballast modules; subsea buoys; tethers for subsea buoys and tether clamps; riser and tether bases; clamping devices; piggy-back clamps; repair clamps; 1/1-tube seals; pull-in heads/installation aids; connectors; load-transfer devices; mechanical protection; and fire protection. This document may be used for bonded flexible pipe ancillary equipment, though any requirements specific to these applications are not addressed. Where relevant, the applicability of recommendations to umbilicals is indicated in the Applicability subclause for the ancillary equipment in question. This document does not cover flexible pipe ancillary equipment beyond the connector, with the exception of riser bases and load-transfer devices. Therefore, this document does not cover turrets structures or I-tubes and J-tubes. J-tubes, for example. In addition, this document does not cover flexible pipe storage devices such as reels, for example. This specification is intended to cover ancillary equipment made from several material types, including metallic, polymer and composite materials. It may also refer to material types for particular ancillary components that are not commonly used for such components currently, but may be adopted more frequently in the future. Pages: 340

1st Edition  |  March 2013  |  Product Number: G17L101  |  Price: $170.00

RP 17L2/ISO 13628-1:2005  ●  Recommended Practice for Flexible Pipe Ancillary Equipment

Provides guidelines for the design, materials selection, analysis, testing, manufacture, handling, transportation, installation, and integrity management of flexible pipe ancillary equipment. It presents the current best practice for design and procurement of ancillary equipment and gives guidance on the implementation of the specification for standard flexible pipe products. In addition, this document presents guidelines on the qualification of prototype products. The applicability relating to a specific item of ancillary equipment within this recommended practice is stated at the beginning of the clause dedicated to that item of ancillary equipment. This document applies to bonded flexible pipe ancillary equipment, though any requirements specific to these applications are not addressed. Where relevant, the applicability of recommendations to umbilicals subject to the applicable subclause for the ancillary equipment in question. This document does not cover flexible pipe ancillary equipment beyond the connector, with the exception of riser bases and load-transfer devices. Therefore, this document does not cover turret structures or I-tubes and J-tubes, for example. In addition, this document does not cover flexible pipe storage devices, for example. This recommended practice is intended to cover ancillary equipment made from several material types, including metallic, polymer, and composite materials. It may also refer to material types for particular ancillary components that are not commonly used for such components currently, but may be adopted in the future. Pages: 275

1st Edition  |  March 2013  |  Product Number: G17L201  |  Price: $170.00

RP 17N  ●  Recommended Practice for Subsea Production System Reliability and Technical Risk Management

Provides a structured approach which organizations can adopt to manage this uncertainty throughout the life of a project. This may range from the management of general project risk through to the identification and removal of local failure modes in particular equipment. This API recommended practice aims to provide operators, contractors, and suppliers with guidance in the application of reliability techniques to subsea projects within their scope of work and supply only. It is applicable to: standard and non-standard equipment and all phases of projects from feasibility studies to operation. This API recommended practice does not prescribe the use of any specific equipment or limit the use of any existing installed equipment or indeed recommend any action, beyond good engineering practice, where current reliability is judged to be acceptable. It is also not intended to replace individual company processes, procedures, document nomenclature, or numbering; it is a guide. However, this recommended practice may be used to enhance existing processes, if deemed appropriate. Most organizations will find much that is familiar and recognized as good practice. Some sections of the annex may be of interest to the reliability specialist. The basic approach, however, is simple and consistent and when applied correctly has the potential to greatly reduce the financial risk of designing, manufacturing, installing, and operating subsea equipment. Pages: 99

1st Edition  |  March 2009  |  Product Number: G17N01  |  Price: $178.00
RP 170
Recommended Practice for Subsea High Integrity Pressure Protection Systems (HIPPS)

Addresses the requirements for the use of high integrity pressure protection systems (HIPPS) for subsea applications. API 14C, IEC 61508, and IEC 61511 specify the requirements for onshore, topsides, and subsea safety instrumented systems (SIS) and are applicable to HIPPS, which are designed to autonomously isolate downstream facilities from overpressure situations. This document integrates these requirements to address the specific needs of subsea production. These requirements cover the HIPPS pressure sensors, logic solver, shutdown valves, and ancillary devices including testing, communications, and monitoring subsystems. Pages: 45

2nd Edition | July 2014 | Product Number: G17002 | Price: $120.00

RP 17P/ISO 13628-1:2005
Design and Operation of Subsea Production Systems--Subsea Structures and Manifolds

Addresses specific requirements and recommendations for subsea structures and manifolds, within the frameworks set forth by recognized and accepted industry specifications and standards. As such, it does not supersede or eliminate any requirement imposed by any other industry specification.

This recommended practice covers subsea manifolds and templates utilized for pressure control in both subsea production of oil and gas, and subsea injection services. Equipment within the scope of this recommended practice is listed as follows: production and injection manifolds; modular and integrated single satellite and multwell templates; subsea processing and subsea boosting stations; flowline riser bases and export riser bases (FRB, ERB); pipeline end manifolds (PLEM); pipeline end terminations (PLET); T- and Y-connections; subsea isolation valve structures (SSIV); subsea control and distribution structures; and associated protection structures. Pages: 69

1st Edition | January 2013 | Product Number: GG17P01 | Price: $150.00

RP 17Q
Subsea Equipment Qualification--Standardized Process for Documentation

Provides guidance on relevant qualification methods that may be applied to facilitate subsea project execution. Qualification of subsea equipment is based on a breakdown of individual subsea components and categorization of those individual components based on classes of equipment and component functionality. A comprehensive component-level breakdown can cater to wide flexibility for field-specific configurations. The qualification process presented in this recommended practice is governed by component-level evaluation and referencing using two separate forms of documentation: failure mode assessments (FMAs) and product qualification sheets (PQSs). Detailed documentation resources related to the proactive qualification methodology presented in this recommended practice are provided in the annexes. These resources include an index of components and individual PQS documents. Documents relating to manufacturing inspection and Factory Acceptance Testing are outside the scope of this document.

The templates in Annex B (PMA Templates) and Annex C (PQS Templates) may be purchased separately in a Microsoft® Excel format for $59.00--Single User, or $308.00--Internet Licensing. Pages: 65

1st Edition | June 2010 | Product Number: G17Q01 | Price: $134.00

TR 17TR1
Evaluation Standard for Internal Pressure Sheath Polymers for High Temperature Flexible Pipes

Defines the methodology and test procedures necessary for the evaluation of polymeric materials suitable for use as the internal pressure sheath of an unbonded flexible pipes in high temperature applications. It describes the processes by which the critical material properties, both static and dynamic, can be measured and evaluated against relevant performance criteria.

This document relates primarily to the properties necessary for an internal pressure sheath required for oil and gas production. These are most relevant to high temperature applications. Only thermoplastic materials are considered for the internal pressure sheath. Elastomeric materials, which are used in bonded flexible pipes, are not considered in this document. Pages: 47

1st Edition | March 2003 | Product Number: G17TR11 | Price: $132.00

TR 17TR2
The Aging of PA-11 In Flexible Pipes

Provides comprehensive guidance on materials and pipe issues regarding the use and operation of PA-11 in flexible pipe applications and concentrates on the use of PA-11 in the internal sheath of flexible pipes. The collective goal of this document is to prevent failure of the internal pressure sheath, as a result of aging and associated loss of mechanical properties, by determining and disseminating the necessary scientific and practical information. Pages: 31


TR 17TR3
An Evaluation of the Risks and Benefits of Penetrations in Subsea Wellheads Below the BOP Stack

Provides an evaluation of the risks and benefits of allowing penetrations in subsea wellheads below the blowout preventer (BOP) stack so annular other than the production tubing (commonly referred to as the “A” annulus) could be monitored. Current industry standards (API Spec 17D and ISO 13628-4) for the design of subsea wellheads prohibit penetrations below the (BOP) stack. In contrast, U.S. regulations (30 CFR 250.517) require that all annuli be monitored for sustained casing pressure and that every occurrence of sustained casing pressure be reported immediately. The study concludes that the risks outweigh the benefits since the risk of maintaining the pressure barrier using a wellhead with penetrations is approximately 2.5 times that of a system without penetrations.

The scope of this study is limited to completed subsea wells in the Gulf of Mexico (GOM). The risks were evaluated using fault tree analysis for three systems:

- wellhead system without penetrations,
- wellhead system with one penetration, and
- wellhead system with two penetrations.

Pages: 123

1st Edition | November 2004 | Product Number: G17TR31 | Price: $132.00

TR 17TR4
Subsea Equipment Pressure Ratings

The impact of operation in deep water on the pressure rating of equipment is a special concern. The objective of this document is to foster a better understanding of the effects of simultaneous internal and external pressures on the internal pressure rating of well control equipment. Pages: 6

1st Edition | January 2012 | Product Number: G17TR41 | Price: $65.00

TR 17TR5
Avoidance of Blockages in Subsea Production Control and Chemical Injection Systems

Addresses the avoidance of blockages in subsea production control and chemical injection systems (CISs). It includes requirements and gives recommendations for the design and operation of subsea production systems (SPs) with the aim of preventing blockages in control and production chemical fluid (PCF) conduits and associated connectors/fittings. In the context of design, this covers not only installed subsea hardware (trees, manifolds, etc.) and the connecting linkages (jumper arrangements, umbilical systems, etc.) but also the fluids to be conveyed, initially from the fluid manufacturers’ facilities through to bunkering at the host facility and, ultimately, injection or usage at remote subsea locations.

The document also addresses the issues of topside equipment which ultimately, injection or usage at remote subsea locations.

Pages: 44

1st Edition | March 2012 | Product Number: G17TR501 | Price: $98.00

This publication is a new entry in this catalog.

This publication is related to an API licensing, certification, or accreditation program.
TR 17TR6
Attributes of Production Chemicals in Subsea Production Systems

Identifies and specifies the essential attributes of production chemicals intended to be introduced to subsea oil and gas production systems. The document is intended for use by chemical suppliers to facilitate the provision of chemicals compatible with existing and intended subsea production systems (SPS) although it is envisaged that use of the document for specification purposes by the operators of such processes will assist in ensuring the completeness of requests to supply.

This document specifies parameters that address manufacture, storage, and transportation of the production chemical, as well as its deployment using the SPS chemical injection system. The document provides for two approaches, requiring that parameters be either:
• measured and reconciled with SPS design and operation, or
• meet, or exceed, acceptance criteria specified, either in this document or by manufacturers of production chemicals or equipment used to deliver production chemicals.

This document is intended to be applicable to all subsea developments, irrespective of whether the development is in shallow or deep water. Pages: 42
1st Edition | March 2012 | Product Number: G17TR601 | Price: $98.00

RP 17W
Recommended Practice for Subsea Capping Stacks

Contains subsea capping stack recommended practices for designing, building, and using, as well as maintaining and testing during storage. The document focuses on:
• topics for drafting a Basis of Design (BOD) document that could be used to constructing a new subsea capping stack,
• topics that may drive improvements for existing subsea capping stack equipment, and
• topics for drafting plans for storing, transporting, maintaining, and testing a subsea capping stack.

Other important elements of a complete subsea capping stack system that are addressed in this document include:
• minimal documentation requirements,
• minimal analysis and modeling that should accompany any subsea capping stack design,
• competencies of personnel who operate, maintain, and test subsea capping stacks, and
• potential unknowns/risks that may be encountered with incident wells that impact the use of a subsea capping stack and relevant contingency procedures.

While it is not within the scope of this document to recommend procedures to use a subsea capping stack, this document does contain example procedures for reference only. These procedures are not presented as a recommended practice but rather to indicate to industry that the preparation and use of such procedures is a recommended practice. Pages: 65
1st Edition | July 2014 | Product Number: G17W01 | Price: $125.00

COMPLETION EQUIPMENT

Spec 11D1/ISO 14310:2008 *
Packers and Bridge Plugs

Provides requirements and guidelines for packers and bridge plugs as defined herein for use in the petroleum and natural gas industry. This specification provides requirements for the functional specification and technical specification, including design, design verification and validation, materials, documentation and data control, repair, shipment, and storage. In addition, products covered by this specification apply only to applications within a conduit. Installation and maintenance of these products are outside the scope of this specification.

These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
Exploration and Production

Phone Orders: 1-800-854-7179 (Toll-free: U.S. and Canada)

contains mathematical derivations and models of some of the most pertinent intermittent gas-lift calculations. Annex B contains a comprehensive example of an intermittent gas-lift design. Annex C describes how to use the Field Units Calculator and SI Units Calculator. These are two spreadsheets that are part of this RP Pages: 165

1st Edition | June 2008 | 2-Year Extension: June 2013
Product Number: G11V1001 | Price: $179.00

RP 19B •
Recommended Practice for Evaluation of Well Perforators—Kazakh
(formerly RP 43)
(includes Addendum 2 dated December 2014)
Describes standard procedures for evaluating the performance of perforating equipment so that representations of this performance may be made to the industry under a standard practice. Also contains tests to gauge performance under the following conditions:
- ambient temperature and pressure,
- simulated wellbore (stressed Berea sandstone),
- elevated temperature.
This edition also introduces a procedure to quantify the amount of debris that comes out of the perforating gun during detonation. Pages: 42
Product Number: G019B2 | Price: $122.00

RP 19B *
Recommended Practice for Evaluation of Well Perforators—Chinese
(formerly RP 43)
Chinese translation of RP 19B.
2nd Edition | September 2006
Product Number: G019B2C | Price: $86.00

RP 19B *
Recommended Practice for Evaluation of Well Perforators—Kazakh
(formerly RP 43)
Kazakh translation of RP 19B.
2nd Edition | September 2006
Product Number: G019B2K | Price: $98.00

RP 19B **
Recommended Practices for Evaluation of Well Perforators—Russian
Russian translation of RP 19B.
2nd Edition | September 2006
Product Number: G019B2R | Price: $97.00

RP 19C/ISO 13503-2:2006
Measurement of Properties of Proppants Used in Hydraulic Fracturing and Gravel-Packing Operations
Provides standard testing procedures for evaluating proppants used in hydraulic fracturing and gravel packing operations. The objective of this recommended practice is to provide a consistent methodology for testing performed on hydraulic fracturing and/or gravel packing proppants. These procedures have been developed to improve the quality of proppants delivered to the well site. They are for use in evaluating certain physical properties used in hydraulic fracturing and gravel packing operations. These tests should enable users to compare the physical characteristics of various proppants tested under the described conditions and to select materials useful for hydraulic fracturing and gravel packing operations.
This edition of API RP 19C is the identical national adoption of ISO 13503-2:2006 and replaces RP 56 and RP 58. Pages: 30
Product Number: G19C001 | Price: $113.00

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.

**This publication is a new entry in this catalog.
◆ This publication is related to an API licensing, certification, or accreditation program.

Phone Orders: 303-397-7956 (Local and International)

RP 19D/ISO 13503-5:2006
Measuring the Long-Term Conductivity of Proppants
(includes Errata 1 dated July 2008)
Provides standard testing procedures for evaluating proppants used in hydraulic fracturing and gravel packing operations. The proppants mentioned in this publication refer to sand, ceramic media, resin coated proppants, gravel packing media, and other materials used for hydraulic fracturing and gravel packing operations. The objective of RP 19D is to provide consistent methodology for testing performed on hydraulic fracturing and/or gravel packing proppants. It is not intended for use in obtaining absolute values of proppant pack conductivities under downhole reservoir conditions. The tests and test apparatus herein have been developed to establish standard procedures and conditions for use in evaluating the long-term conductivity of various hydraulic fracture proppant materials under laboratory conditions. This procedure enables users to compare the conductivity characteristics under the specifically described test conditions. The test results can aid users in comparing proppant materials for use in hydraulic fracturing operations.
This edition of API RP 19D is the identical national adoption of ISO 13503-5:2006 and replaces API RP 61. Pages: 24
1st Edition | March 2008 | 2-Year Extension: June 2013
Product Number: GX19D01 | Price: $107.00

Spec 19G1/ISO 17078-1:2004 ◆
Side-Pocket Mandrels
(includes Errata 1 dated December 2014)
Provides requirements for side-pocket mandrels used in the petroleum and natural gas industry. API 19G1 includes specifying, selecting, designing, manufacturing, quality control, testing, and preparation for shipping of side-pocket mandrels. This specification does not address nor include requirements for end connections between the side-pocket mandrels and the well conduit. The installation and retrieval of side-pocket mandrels is outside the scope of this part of ISO 17078. Additionally, this International Standard does not include specifications for center-set mandrels, or mandrels that employ or support tubing-retrievable flow control devices. This specification does not include gas-lift or any other flow-control valves or devices, latches, and/or associated wire line equipment that may or may not be covered in other ISO specifications. The side-pocket mandrels to which this specification refers are independent devices that can accept installation of flow control or other devices down-hole. Pages: 43
1st Edition | May 2010
Product Number: G19G11 | Price: $103.00

Flow-Control Devices for Side-Pocket Mandrels
Provides requirements for subsurface flow-control devices used in side-pocket mandrels (heretofore called flow-control devices) intended for use in the worldwide petroleum and natural gas industry. This includes requirements for specifying, selecting, designing, manufacturing, quality control, testing, and preparation for shipping of flow-control devices. Additionally, it includes information regarding performance testing and calibration procedures. The installation and retrieval of flow-control devices is outside the scope of Spec 19G2. Additionally, Spec 19G2 is not applicable to flow-control devices used in center-set mandrels or with tubing-retrievable applications. Spec 19G2 does not include requirements for side-pocket mandrels, running, pulling, and kick-over tools, and latches that might or might not be covered in other API/ISO specifications. Reconditioning of used flow-control devices is outside of the scope of Spec 19G2.
This edition of API Spec 19G2 is the modified national adoption of ISO 17078-2:2007. Pages: 132
1st Edition | June 2010
Product Number: GX19G21 | Price: $155.00
Specifications and practices for Subsurface Barrier Valves and Related Equipment

This International Standard does not cover installation and maintenance, flow controlling safety device. This International Standard does not cover the connections to the well conduit.

This edition of API Spec 19G3 is the identical national adoption of ISO 17078-3:2009. This specification contains the API Monogram Annex as part of the U.S. national adoption. Pages: 43
1st Edition | June 2011 | Product Number: GG19G301 | Price: $145.00

Practices for Side-Pocket Mandrels and Related Equipment
Provides informative documentation to assist the user/purchaser and the supplier/manufacturer in specification, design, selection, testing, calibration, reconditioning, installation, and use of side-pocket mandrels, flow-control devices, and associated latches and installation tools. The product-design and manufacturing-related requirements for these products are included within the other parts of ISO 17078. The content and coverage of several industry documents are compiled and refined within RP 19G4 (all parts). This edition of API RP 19G4 is the identical national adoption of ISO 17078-4:2009. Pages: 48

RP 19G9
Design, Operation, and Troubleshooting of Dual Gas-Lift Wells
Provides recommended practices for the design, operation, optimization, and troubleshooting of dual gas-lift wells. RP 19G9 also contains suggestions on practices that should be avoided to minimize problems, inefficiencies, and poor economics that may be associated with ineffective dual gas-lift operations. Pages: 108
1st Edition | February 2010 | Product Number: G19G901 | Price: $143.00

Spec 19V/ISO 28781:2010
Subsurface Barrier Valves and Related Equipment
Provides the requirements for subsurface barrier valves and related equipment as they are defined herein for use in the petroleum and natural gas industries. Included are the requirements for design, design validation, manufacturing, functional evaluation, repair, redress, handling, and storage. Subsurface barrier valves provide a means of isolating the formation or creating a barrier in the tubular to facilitate the performance of pre- and/or post-production/injection operational activities in the well.

The subsurface barrier valve is not designed as an emergency or fail-safe flow controlling safety device.

This International Standard does not cover installation and maintenance, control systems such as computer systems, and control conduits not integral to the barrier valve. Also not included are products covered under ISO 17078, ISO 16070, ISO 14310, ISO 10432, and ISO 10423 and the following products: downhole chokes, wellhead plugs, sliding sleeves, casing-mounted flow-control valves, injection valves, well-condition-activated valves or drill-stem test tools. This International Standard does not cover the connections to the well conduit.

This edition of API Spec 19V is the modified national adoption of ISO 28781:2010. This specification contains the API Monogram Annex as part of the U.S. national adoption. Pages: 58
1st Edition | May 2013 | Product Number: GG19V01 | Price: $150.00
RP 51
Onshore Oil and Gas Production Practices for Protection of the Environment
Provides environmentally sound practices to promote protection of the environment in onshore oil and gas production operations. Pages: 17
3rd Edition | March 2001 | Reaffirmed: January 2013
Product Number: GS1003 | Price: $51.00

RP 51R
Environmental Protection for Onshore Oil and Gas Production Operations and Leases
Provides environmentally sound practices, including reclamation guidelines, for onshore oil and gas production operations. It is intended to be applicable to contractors as well as operators. Facilities within the scope of this document include all production facilities, including produced water handling facilities. Pages: 92
3rd Edition | August 2012 | Product Number: G20D01 | Price: $74.00

DRILLING AND PRODUCTION OPERATIONS

RP 31A
Standard Form for Hardcopy Presentation of Downhole Well Log Data
Provides an improved standard format for hardcopy presentation of downhole well log data. Standardizing the log form and data presentation allows the user to more easily combine a broad range of log data in order to interpret well status and performance. Pages: 18
Product Number: G31A01 | Price: $97.00

RP 45
Recommended Practice for Analysis of Oilfield Waters
Provides analysis methods for the determination of dissolved and dispersed components in oilfield waters (produced water, injected water, aqueous workover fluids, and stimulation fluids). Also includes applications of oilfield water analyses; the proper collection, preservation, and labeling of field samples; a description of the various analytical methods available, including information regarding interferences, precision, accuracy, and detection limits; as well as the appropriate reporting formats for analytical results. Pages: 60
Product Number: G45003 | Price: $142.00

RP 50
Natural Gas Processing Plant Practices for Protection of the Environment
Assists gas plant operators in understanding their environmental responsibilities. It is intended to be used primarily by environmental, engineering, and operations personnel and by management involved in building, maintaining, modifying, and operating gas processing plants. Pages: 23
Product Number: G50002 | Price: $109.00

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
RP 68
Recommended Practice for Oil and Gas Well Servicing and Workover Operations Involving Hydrogen Sulfide
Addresses personnel training, personnel protective equipment, contingency planning, and emergency procedures. Also included are classification of locations, materials and equipment, operations, rig practices, special operations, offshore operations, characteristics of hydrogen sulfide and sulfur dioxide, and evaluation and selection of hydrogen sulfide monitoring equipment. Pages: 54
Product Number: G86801 | Price: $76.00
You may access RP 68 in a read-only platform: publications.api.org

RP 80
Guidelines for the Definition of Onshore Gas Gathering Lines
Developed by an industry coalition that included representatives from over 20 petroleum industry associations, provides a functional description of onshore gas gathering pipelines for the sole purpose of providing users with a practical guide for determining the application of the definition of gas gathering in the federal Gas Pipeline Safety Standards, 49 CFR Part 192, and state programs implementing these standards. Pages: 53
1st Edition | April 2000 | Reaffirmed: January 2013
Product Number: G80801 | Price: $125.00
You may access RP 80 in a read-only platform: publications.api.org

RP 90
Annular Casing Pressure Management for Offshore Wells
Serves as a guide for managing annular casing pressure in offshore wells. This guide is meant to be used for offshore wells that exhibit annular casing pressure, including thermal casing pressure, sustained casing pressure (SCP), and operator-imposed pressure. Covers monitoring, diagnostic testing, the establishment of a maximum allowable wellhead operating pressure (MAWOP), and documentation of annular casing pressure for the various types of wells that occur offshore. Included also is a discussion of risk assessment methodologies that can be used for the evaluation of individual well situations where the annular casing pressure is not within the MAWOP guidelines. Provides guidelines in which a broad range of casing annuli that exhibit annular pressure can be managed in a routine fashion while maintaining an acceptable level of risk. Pages: 84
1st Edition | August 2006 | Reaffirmed: January 2012
Product Number: G09001 | Price: $182.00
You may access RP 90 in a read-only platform: publications.api.org

RP 92U
Underbalanced Drilling Operations
Provides information that can serve as a guide for planning, installation, operation, and testing of underbalanced drilling equipment systems on land and offshore drilling rigs [barge, platform, bottom-supported, and floating with surface blowout preventers (BOP) installed] thereby ensuring consideration of personnel safety, public safety, integrity of the underbalanced drilling (UBD) equipment, and the environment for onshore and offshore UBD operations (including tripping of drill string). Pages: 72
Product Number: G92U01 | Price: $105.00

RP 96
Deepwater Well Design and Construction
Provides engineers a reference for deepwater (DW) well design as well as drilling and completion operations. This recommended practice (RP) will also be useful to support internal reviews, internal approvals, contractor engagements, and regulatory approvals. The scope of this RP is to discuss DW drilling and completion activities performed on wells that are constructed using subsea blowout preventers (BOPs) with a subsea wellhead. This document addresses the following.

- Identifies the appropriate barrier and load case considerations to maintain well control during DW well operations (drilling, suspension, completion, production, and abandonment).
- Supplements barrier documentation in Std 65-2 with a more detailed description of barriers and discussion of the philosophy, number, type, testing, and management required to maintain well control. This document also supplements the barrier documentation in RP 90 in regard to annular pressure buildup. Abandonment barrier requirements are described for use when designing the well.
- Discusses load assumptions, resistance assumptions, and methodologies commonly used to achieve well designs with high reliability. The load case discussion includes less obvious events that can arise when unexpected circumstances are combined.
- Describes the risk assessment and mitigation practices commonly implemented during DW casing and equipment installation operations.

The purpose of this document is to enhance safety and minimize the likelihood of loss of well control or damage to the environment. These practices are generally intended to apply to subsea wells drilled with subsea BOPs in any water depth. Some of the descriptions of rig hardware and operations, such as remotely operated vehicles, are less relevant in shallower water depths [e.g., less than 500 ft (152 m)]. In these shallower water depths the operator may substitute alternative hardware or operations that maintain safety and system reliability.

The following aspects of DW well design and construction are outside the scope of this document.

- Detailed casing design load case definitions (does not include specific casing designs or design factors). Individual companies combine differing severities of loads and resistances or differing calculation methods to achieve designs with similar high levels of reliability.
- Wells drilled and/or completed with a surface BOP and high pressure riser from a floating production system; however, considerations for wells predrilled with floating rigs to be completed to a floating production system are included.
- Well control procedures (refer to RP 59 for well control information).
- Managed pressure drilling operations (including dual gradient drilling).
- Production operations and fluids handling downstream of the tree (subsea facilities/subsea architecture and surface facilities/offloading hydrocarbons).
- Intervention operations.
- Quality assurance programs. Pages: 158

1st Edition | December 2013 | Product Number: G09701 | Price: $65.00

Bull 97
Well Construction Interface Document Guidelines
Contains the structure and contents of a well control interface document (WCID) that links the drilling contractor's safety case with the lease operator's safety management system. It includes well-specific information such as the basis of design, the well execution plan, and critical well activity risk assessment. This document exhibits how management of change and risk assessment processes will apply during well construction activities and assure personnel competency. A WCID also aligns all parties to assure their health, safety, and environment (HSE) standards are not compromised and all applicable regulatory requirements are met while undertaking shared activities. A WCID will assign or delineate specific responsibilities for the lease operator's personnel as well as provide a vehicle for the drilling contractor to intervene in the case that unsafe acts are identified. Pages: 18
Product Number: G92U01 | Price: $105.00

RP 98
Personal Protective Equipment Selection for Oil Spill Responders
Provides general information and guidance for the development of oil spill responder Personal Protective Equipment (PPE) control measures. Although an extensive amount of information has been developed on the topic of PPE for emergency responders, this document focuses on the PPE selection process as well as its technical evaluation based on the hazards present.
The purpose of this recommended practice is to assist users in developing effective PPE control measures for oil spill responses using a systematic approach. This recommended practice is intended for any company, organization, or agency that oversees or responds to oil spills. It is not a comprehensive “how-to” guide to selecting PPE for every type of situation that may be encountered; rather, it is a guidance document that discusses how proper PPE selection may be a useful control measure for responders when engineering and administrative controls may not be feasible or effective in reducing exposure to acceptable levels. Pages: 79

1st Edition | August 2013 | Product Number: G09801 | Price: $130.00
You may access RP 99 in a read-only platform: publications.api.org

**DRILLING AND PRODUCTION OPERATIONS:**

**Gas Lift**
*(Book 6 in the Vocational Training Series)*

Familiarizes field personnel with basic gas lift principles; operating procedures for adjusting, regulating, operating, and troubleshooting gas-lift equipment; and well conditions. Covers conventional practices and concepts. Illustrated with drawings of typical gas-lift installations and related equipment, as well as actual charts illustrating operation of and problems encountered in gas-lifted wells. Pages: 143

Product Number: GVT063 | Price: $157.00

**Introduction to Oil and Gas Production**
*(Book 1 in the Vocational Training Series)*

Serves as a primer for oil and gas operations. It covers the origins and accumulation of oil and gas, the well, well treatment and wellhead, artificial lift, well testing, separation, treatment and storage, gauging and metering, production, offshore production and structures, corrosion, enhanced recovery, production personnel, tools and equipment, pipe, valves and fittings, reports and records, state and federal regulations, environmental, health, and safety concerns, economic considerations, and future trends. Pages: 120

Product Number: GVT015 | Price: $157.00

**Subsurface Salt Water Injection and Disposal**
*(Book 3 in the Vocational Training Series)*

A handbook for the planning, installation, operation, and maintenance of subsurface disposal systems. Design criteria and formulas are given for gathering systems, treating plants, and injection facilities. Alternative equipment and methods are discussed and illustrated. Economic considerations are presented. Pages: 47

Product Number: GVT033 | Price: $97.00

**Wireline Operations and Procedures**
*(Book 5 in the Vocational Training Series)*

A handbook outlining to operators of oil and gas wells what applications are possible with wireline tools and equipment. Also a guide for field personnel. Surface equipment, service tools (standard and special), and subsurface equipment (both permanent and removable) are described and illustrated. Their various applications are included. Also presented is a general discussion of special problems which wireline operations and procedures may serve to eliminate, minimize, or control, and methods by which this may be accomplished. Pages: 60

Product Number: GVT053 | Price: $122.00
You may access RP T-1 in a read-only platform: publications.api.org

**Recommended Practice for Qualification Programs for Offshore Production Personnel Who Work with Safety Devices**

Provides guidelines for the qualification of personnel engaged in installing, inspecting, testing, and routinely maintaining surface and subsurface devices that are used to insure safety and to prevent pollution during the production of oil and gas on offshore platforms. The guidelines provide expected candidate performance levels, instructional content, and recommendations for testing. The guidelines are divided into instructional and testing phases. Pages: 3

2nd Edition | December 2001 | Reaffirmed: January 2013
Product Number: GT7002 | Price: $59.00
You may access RP T-2 in a read-only platform: publications.api.org

**Training of Offshore Personnel in Nonoperating Emergencies**

Represents an industry guide for the training of workers who work offshore. It presents recommendations for training these personnel in handling nonoperating emergencies, such as fires, transportation emergencies, platform abandonment procedures, use of survival crafts, and water survival guidelines. Pages: 3

2nd Edition | October 1995 | Reaffirmed: June 2010
Product Number: GT4002 | Price: $59.00
You may access RP T-4 in a read-only platform: publications.api.org

**Recommended Practice for Training and Qualification of Personnel in Well Control Equipment and Techniques for Wireline Operations on Offshore Locations**

Provides criteria for the qualification of wireline personnel in well control equipment operations and techniques. Although it does include recommendations for training wireline personnel on general rig well control equipment and theory, it should be noted that the main focus for training should be those operations using a lubricator as the primary well control mechanism. Wireline personnel classifications to which this RP is applicable are the Helper/Assistant and Operator/Supervisor. Pages: 2

1st Edition | October 2002 | Reaffirmed: January 2013
Product Number: GT0601 | Price: $59.00
You may access RP T-6 in a read-only platform: publications.api.org
Operators recognize that stakeholders within the community can have diverse interests, issues and levels of concern. Some of these interests can be in direct conflict with one another. Working together with stakeholders to seek mutually agreeable solutions is an important aspect of community engagement. Operators can have different approaches to addressing the concerns and issues.

These guidelines are intended primarily to support onshore oil and gas projects in the United States for shale developments; however, they can be adapted to any oil and gas projects in the United States. This document provides non-technical guidance only, and practices included herein cannot be applicable in all regions and/or circumstances. This document does not constitute legal advice regarding compliance with legal or contractual requirements or risk mitigation. It is not intended to be all-inclusive. The operator is responsible for determining compliance with applicable legal and regulatory requirements.

1st Edition | July 2014 | Product Number: G100301 | Price: $60.00
You may download a PDF of this document from the Policy & Issues/Hydraulic Fracturing section of the API website.

VOLUNTARY OPERATING AGREEMENTS AND BULLETINS

Bull D16
Suggested Procedure for Development of a Spill Prevention Control and Countermeasure Plan

Assists the petroleum industry in understanding the SPCC regulation in light of the latest rule (40 CFR Part 112) and to offer guidance for developing SPCC Plans wherever they are needed. Included is a template for developing SPCC plans (i.e. onshore excluding production; onshore oil production, oil drilling or workover; or offshore oil drilling, production, or workover) in accordance with the regulation and guidance, instruction, and clarification for completing each section of the template. The purpose of this rulemaking was to establish procedures, methods, and equipment to prevent and contain discharges of oil from non-transportation-related onshore and offshore facilities, thus preventing pollution of navigable waters of the United States. The development of this bulletin was commissioned by API and performed by O’Brien’s Response Management Inc. The purchase of D16 includes: Bulletin D16, the Plan Template, and a CD-ROM with the Microsoft® Word version of the Plan Template.

5th Edition | April 2011 | Product Number: GD1605
Price: $258.00 | Template Only: Price: $95.00

HEALTH, ENVIRONMENT, AND SAFETY: EXPLORATION AND PRODUCTION SAFETY STANDARDS

API HF1
Hydraulic Fracturing Operations—Well Construction and Integrity Guidelines

Provides guidance and highlights industry recommended practices for well construction and integrity for wells that will be hydraulically fractured. The guidance provided here will help to ensure that shallow groundwater aquifers and the environment will be protected, while also enabling economically viable development of oil and natural gas resources. This document is intended to apply equally to wells in either vertical, directional, or horizontal configurations. Maintaining well integrity is a key design principle and design feature of all oil and gas production wells. Maintaining well integrity is essential for the following reasons:

- To isolate the internal conduit of the well from the surface and subsurface environment. This is critical in protecting the environment, including the groundwater, and in enabling well drilling and production.
- To isolate and contain the well's produced fluid to a production conduit within the well.

Although there is some variability in the details of well construction because of varying geologic, environmental, and operational settings, the basic practices in constructing a reliable well are similar. These practices are the result of operators gaining knowledge based on years of experience and technology development and improvement. These experiences and practices are communicated and shared via academic training, professional and trade associations, extensive literature and documents, and very importantly, industry standards and recommended practices. Pages: 24

1st Edition | October 2009 | Product Number: GHF101 | Price: $42.00
You may download a PDF of this document from the Policy & Issues/Hydraulic Fracturing section of the API website.
## Exploration and Production

<table>
<thead>
<tr>
<th>API HF2</th>
<th>Water Management Associated with Hydraulic Fracturing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identifies and describes many of the current industry best practices used to minimize environmental and societal impacts associated with the acquisition, use, management, treatment, and disposal of water and other fluids associated with the process of hydraulic fracturing. While this document focuses primarily on issues associated with hydraulic fracturing pursued in deep shale gas development, it also describes the important distinctions related to hydraulic fracturing in other applications. Moreover, this guidance document focuses on areas associated with the water used for purposes of hydraulic fracturing and does not address other water management issues and considerations associated with oil and gas exploration, drilling, and production. These topics will be addressed in future API documents. Pages: 26</td>
<td></td>
</tr>
<tr>
<td>1st Edition</td>
<td>June 2010</td>
</tr>
<tr>
<td>You may download a PDF of this document from the Policy &amp; Issues/Hydraulic Fracturing section of the API website.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>API HF3</th>
<th>Practices for Mitigating Surface Impacts Associated with Hydraulic Fracturing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identifies and describes practices currently used in the oil and natural gas industry to minimize surface environmental impacts—potential impacts on surface water, soils, wildlife, other surface ecosystems, and nearby communities—associated with hydraulic fracturing operations. While this document focuses primarily on issues associated with operations in deep shale gas developments, it also describes the important distinctions related to hydraulic fracturing in other applications. Pages: 18</td>
<td></td>
</tr>
<tr>
<td>1st Edition</td>
<td>January 2011</td>
</tr>
<tr>
<td>You may download a PDF of this document from the Policy &amp; Issues/Hydraulic Fracturing section of the API website.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RP 49</th>
<th>Recommended Practice for Drilling and Well Service Operations Involving Hydrogen Sulfide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provides recommendations that apply to oil and gas well drilling and servicing operations involving hydrogen sulfide. These operations include well drilling, completion, servicing, workover, downhole maintenance, and plug and abandonment procedures conducted with hydrogen sulfide present in the fluids being handled. Coverage of this publication is applicable to operations confined to the original wellbore or original total depth and applies to the selection of materials for installation or use in the well and in the well drilling or servicing operation(s). The presence of hydrogen sulfide in these operations also presents the possibility of exposure to sulfur dioxide from the combustion of hydrogen sulfide. Pages: 29</td>
<td></td>
</tr>
<tr>
<td>3rd Edition</td>
<td>May 2001</td>
</tr>
<tr>
<td>Product Number: G49003</td>
<td>Price: $88.00</td>
</tr>
<tr>
<td>You may access RP 49 in a read-only platform: publications.api.org</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RP 51R</th>
<th>Environmental Protection for Onshore Oil and Gas Production Operations and Leases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provides environmentally sound practices, including reclamation guidelines, for domestic onshore oil and gas production operations. It is intended to be applicable to contractors as well as operators. Facilities within the scope of this document include all production facilities, including produced water handling facilities. Offshore and arctic areas are beyond the scope of this document. Operational coverage begins with the design and construction of access roads and well locations and includes reclamation, abandonment, and restoration operations. Gas compression for transmission purposes or production operations, such as gas lift, pressure maintenance, or enhanced oil recovery (EOR), is included. Annex A provides guidance for a company to consider as a “good neighbor” Pages: 35</td>
<td></td>
</tr>
<tr>
<td>1st Edition</td>
<td>July 2009</td>
</tr>
<tr>
<td>You may download a PDF of this document from the Policy &amp; Issues/Hydraulic Fracturing section of the API website.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RP 54</th>
<th>Recommended Practice for Occupational Safety for Oil and Gas Well Drilling and Servicing Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes procedures for promotion and maintenance of safe working conditions for employees engaged in rotary drilling operations and well servicing operations, including special services. Applies to rotary drilling rigs, well servicing rigs, and special services as they relate to operations on locations. Pages: 35</td>
<td></td>
</tr>
<tr>
<td>3rd Edition</td>
<td>August 1999</td>
</tr>
<tr>
<td>Product Number: G54003</td>
<td>Price: $125.00</td>
</tr>
<tr>
<td>You may access RP 54 in a read-only platform: publications.api.org</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RP 54</th>
<th>Recommended Practice for Occupational Safety for Oil and Gas Well Drilling and Servicing Operations—Kazakh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kazakh translation of RP 54.</td>
<td></td>
</tr>
<tr>
<td>3rd Edition</td>
<td>August 1999</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RP 54</th>
<th>Recommended Practice for Occupational Safety for Oil and Gas Well Drilling and Servicing Operations—Russian</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russian translation of RP 54.</td>
<td></td>
</tr>
<tr>
<td>3rd Edition</td>
<td>August 1999</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RP 55</th>
<th>Recommended Practice for Oil and Gas Producing and Gas Processing Plant Operations Involving Hydrogen Sulfide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Covers recommendations for protection of employees and the public, as well as conducting oil and gas producing and gas processing plant operations where hydrogen sulfide is present in the fluids being produced. Pages: 40</td>
<td></td>
</tr>
<tr>
<td>Product Number: G55002</td>
<td>Price: $115.00</td>
</tr>
<tr>
<td>You may access RP 55 in a read-only platform: publications.api.org</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RP 67</th>
<th>Recommended Practice for Oilfield Explosives Safety</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to explosives used in oil and gas well operations, more specifically, explosives used inside the wellbore. Guidance is provided for explosives transportation, on-site explosives loading and unloading operations, electrical wireline operations, tubing conveyed operations, self-contained activating tools, setting tools, sidewall sample taker tools, select fire perforating guns, and bullet perforating guns. Recommendations are</td>
<td></td>
</tr>
</tbody>
</table>

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.
Exploration and Production

presented regarding surface equipment and downhole equipment. Recommended training and minimum qualifications are presented for personnel who participate in handling and using explosives at the well site. Pages: 18

Product Number: G06702 | Price: $85.00
You may access RP 67 in a read-only platform: publications.api.org

RP 67 *
Recommended Practice for Oilfield Explosives Safety—Kazakh
Kazakh translation of RP 67.
2nd Edition | May 2007 | Product Number: G09308K | Price: $68.00

RP 67 *
Recommended Practice for Oilfield Explosives Safety—Russian
Russian translation of RP 67.
2nd Edition | May 2007 | Product Number: G09309R | Price: $69.00

RP 74
Recommended Practice for Occupational Safety for Onshore Oil and Gas Production Operation
Recommends practices and procedures for promoting and maintaining safe working conditions for personnel engaged in onshore oil and gas production operations, including special services. Pages: 23
1st Edition | October 2001 | Reaffirmed: January 2013
Product Number: G74001 | Price: $61.00
You may access RP 74 in a read-only platform: publications.api.org

RP 75
Recommended Practice for Development of a Safety and Environmental Management Program for Offshore Operations and Facilities
Provides guidance for use in preparing safety and environmental management programs (SEMP) for oil, gas, and sulphur operations and facilities located on the outer continental shelf (OCS). These guidelines are applicable to well drilling, servicing, and production; and pipeline facilities and operations that have the potential for creating a safety or environmental hazard at OCS platform sites. Eleven major program elements are included for application to these facilities and operations. Identification and management of safety and environmental hazards are addressed in design, construction, startup, operation, inspection, and maintenance of new, existing, and modified facilities. Pages: 41
Product Number: G07503 | Price: $89.00
You may access RP 75 in a read-only platform at publications.api.org

Bull 75L
Guidance Document for the Development of a Safety and Environmental Management System for Onshore Oil and Natural Gas Production Operations and Associated Activities
Provides general information and guidance for the development of a safety and environmental management system (SEMS) for onshore oil and natural gas operations, including drilling, production, and well servicing activities. Although there is an extensive amount of information that has been developed on the topic of safety and environmental management systems, this document focuses on this industry sector to help foster continued improvement in our industry's safety and environmental performance. It is recognized that many onshore oil and natural gas companies have effective SEMS in place; however, the intent of this document is to provide an additional tool that can assist these and especially other operators in taking the next step toward implementing a complete system at a pace that complements their business plan. For those who already have a mature SEMS in place, this document can be used for continuous improvement of the system. Pages: 12
1st Edition | November 2007 | Product Number: G75L01 | Price: $34.00
You may access Bull 75L in a read-only platform: publications.api.org

RP 76
Contractor Safety Management for Oil and Gas Drilling and Production Operations
Intended to assist operators, contractors, and subcontractors (third parties) in the implementation of a contractor safety program and improve the overall safety performance while preserving the independent contractor relationship. It is intended for the Upstream Segment of the petroleum industry; however, since the operator requirements and the contracted work are diverse, this publication may not be applicable to all operations at each company or to all contract work performed in those operations. Many oil and gas exploration and production companies contract for equipment and personnel services for a wide range of activities, including drilling, well servicing, equipment repair, maintenance, and construction. Certain activities of contractors have the potential to take place either contractor and/or operator personnel and/or equipment at risk. It is important that operations are carried out in a safe manner. Operators and contractors need to provide safe work places and to protect the safety of their work forces and the general public. When they work together to improve safety, both benefit. Pages: 60
2nd Edition | November 2007 | Reaffirmed: January 2013
Product Number: G07602 | Price: $57.00
You may access RP 76 in a read-only platform: publications.api.org

HEALTH, ENVIRONMENT, AND SAFETY:
GENERAL

Achieving Common Sense Environmental Regulation: Oil and Gas Exploration & Production
Discusses proposals to achieve a balanced approach to environmental regulation of the oil and gas exploration and production industry that protects the environment as well or better than the current system and does the job more efficiently. Pages: 36
May 1996 | Product Number: G13715 | Price: Free*

Exploration and Production: Protecting the Environment
Discusses work the E&P industry does to protect the environment while exploring for and producing oil and natural gas. Describes a number of innovative and socially responsible actions taken by exploration and production companies to minimize impacts to air, water, land, and wildlife. This document is only available in a PDF format. Pages: 24
September 1997 | Product Number: G13650 | Price: Free*

Publ 4702
Technologies to Reduce Oil and Grease Content of Well Treatment, Well Completion, and Workover Fluids for Onboard Disposal
Technologies to reduce oil and grease content of well treatment, well completion, and workover fluids for onboard disposal. Pages: 54
March 2001 | Product Number: I47020 | Price: $122.00

*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any Addenda or Errata to the document. Please check the English-language versions for any updates to the documents.

This publication is a new entry in this catalog. This publication is related to an API licensing, certification, or accreditation program.
A government agency. Pages: 106

which are unplanned and typically are not covered under a permit issued by the Emergency Planning and Community Right-to-Know Act (EPCRA). Also covers the Environmental Response, Compensation, and Liability Act (CERCLA) and the

substances into the environment as required by the Comprehensive Environmental Response, Compensation, and Liability Act, and the Emergency Planning and Community Right-to-Know Act (EPCRA). (includes Errata 1 dated September 1991)

Under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986, owners and operators of oil and gas exploration and production facilities must provide to state and local emergency response agencies information on hazardous chemicals they produce or use. This bulletin provides a simplified means of compliance with these regulations. Pages: 86

Product Number: G11000 | Price: $142.00

Bull E3

Addresses the environmental concerns related to well abandonment and inactive well practices. The primary environmental concerns are protection of freshwater aquifers from fluid migration; and isolation of hydrocarbon production and water injection intervals. Additional issues in the document include protection of surface soils and surface waters, future use, and permanent documentation of plugged and abandoned wellbore locations and conditions. Pages: 52

Product Number: G11007 | Price: $142.00
You may access Bull E3 in a read-only platform: publications.api.org

Bull E4
Environmental Guidance Document: Release Reporting for the Oil and Gas Exploration and Production Industry as Required by the Clean Water Act, the Comprehensive Environmental Response, Compensation and Liability Act, and the Emergency Planning and Community

Developed to provide the oil and gas production industry guidance on reporting releases of hazardous substances and petroleum to water as required by the Clean Water Act (CWA) and reporting releases of hazardous substances into the environment as required by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Emergency Planning and Community Right-to-Know Act (EPCRA). Also covers the reporting of what most in the industry consider "emergency" releases, which are unplanned and typically are not covered under a permit issued by a government agency. Pages: 106

2nd Edition | May 2003 | Product Number: GE4002 | Price: $169.00

HEALTH, ENVIRONMENT, AND SAFETY: NATURALLY OCCURRING RADIOACTIVE MATERIALS

Bull E2
Management of Naturally Occurring Radioactive Materials (NORM) in Oil and Gas Production

Naturally occurring radioactive materials (NORM) are present in oil and gas operations at some locations and can deposit in well tubulars, surface piping, vessels, pumps, and other producing and processing equipment. The purpose of this document is to inform oil and gas operators of the possible presence of NORM and to provide relevant information on protecting workers, the public, and the environment. The objective of this document is to provide general information to users so that they have an understanding of the fundamental radiation issues associated with the management of NORM. Issues where the advice of a professional health physicist, industrial hygienist, or other technical expert may be useful are identified and guidance provided. Readers are advised to contact their state regulatory office and work very closely with that office on all NORM issues. Pages: 50

2nd Edition | March 2006 | Product Number: GE2002 | Price: $122.00

Publ 7100
A Naturally Occurring Radioactive Material (NORM) Disposal Cost Study
Details the reported quantities of NORM that have accumulated over the years and the annual rate of NORM production for 1993 from U.S. oil and gas condensate production. The document also determines the 1992 cost of available NORM disposal options and the annual costs of complying with existing and proposed NORM regulations. Pages: 59

1st Edition | November 1996 | Product Number: G71001 | Price: $115.00

Publ 7101
A National Survey on Naturally Occurring Radioactive Material (NORM) in Petroleum Producing and Gas Processing Facilities
Defines the general occurrence of NORM in the United States based on statistical analysis of gamma measurements taken external to certain petroleum producing and gas processing equipment. Pages: 265

October 1997 | Product Number: G71011 | Price: $115.00

Publ 7102
Methods for Measuring Naturally Occurring Radioactive Materials (NORM) in Petroleum Production Equipment
The use and capabilities of common field-survey equipment are characterized for measuring NORM in sludges and scales accumulated in oil and gas production equipment. A correlation between radium concentrations in accumulated scales and sludges and measured external radiation is presented. Pages: 85

October 1997 | Product Number: G71021 | Price: $115.00

Publ 7103
Management and Disposal Alternatives for Naturally Occurring Radioactive Material (NORM) Wastes in Oil Production and Gas Plant Equipment
Presents radiological analyses of disposal alternatives that will protect against elevated radiation exposures and facilitate cost-effective precautions that are proportionate to any hazards posed by the NORM. Four waste forms and 12 waste disposal alternatives were analyzed. Pages: 65

October 1997 | Product Number: G71031 | Price: $115.00

Publ 7104
Proceedings of the 1995 API and GRI Naturally Occurring Radioactive Material (NORM) Conference
A compilation of 17 papers presented at the 1995 API/GRI NORM Conference. Subjects include measurement and survey; regulatory issues and activities; management and disposal; and scale prediction and control. Pages: 225

October 1997 | Product Number: G71041 | Price: $115.00

Publ 7105
Probabilistic Estimates of Dose and Indoor Radon Concentrations Attributable to Remediated Oilfield Naturally Occurring Radioactive Material (NORM)
Evaluates the concentration limit of 30 pCi/g Ra-226 in pipe scale and sludge left near the surface of remediated oilfield sites and returned to unrestricted public use. Includes an extensive bibliography of NORM research. Pages: 97

October 1997 | Product Number: G71051 | Price: $115.00

This publication is a new entry in this catalog. This publication is related to an API licensing, certification, or accreditation program.
Exploration and Production

Fax Orders: 303-397-2740

Online Orders: www.global.ihs.com

HEALTH, ENVIRONMENT, AND SAFETY:

GUIDELINES FOR COMMERCIAL EXPLORATION AND PRODUCTION WASTE MANAGEMENT

Provides guidelines for the design and operations of commercial E&P waste management facilities to allow operators to identify areas where their facility could have impacts on the surrounding community and environment, and gives options for preventing/reducing those impacts. The guidelines are not meant to supersede any applicable local, state, or federal requirements.

Pages: 80


PROTECTING LIVESTOCK ANSWERS TO FREQUENTLY ASKED QUESTIONS ABOUT LIVESTOCK EXPOSURE TO CRUDE OIL IN OILFIELD OPERATIONS

Describes ways livestock might be significantly exposed to petroleum hydrocarbons via a conceptual site model and outlines how to make a screening level determination of whether or not livestock are at risk from the exposure.

2006 | Product Number: 10PLO6 | For a free copy, please visit www.api.org/aboutoilgas/sectors/explore/livestock.cfm

APIS E5

ENVIRONMENTAL GUIDANCE DOCUMENT: WASTE MANAGEMENT IN EXPLORATION AND PRODUCTION OPERATIONS

Includes recommendations for the environmentally sound management of solid waste resulting from the exploration and production of oil and gas. Guidance is provided for the management of drilling fluids, produced waters, and other wastes associated with the operation of gas plants, field facilities, drilling, and workover.

Pages: 84

2nd Edition | February 1997 | Product Number: GE5002 | Price: $125.00

SECURITY

API STANDARD FOR THIRD PARTY NETWORK CONNECTIVITY

Provides guidance for implementing secure third-party connections between the information technology systems and a network of two companies that have a business relationship and a common objective. The standard provides suggestions for companies to follow to establish third-party network connections, while protecting their individual systems and data from unauthorized access or manipulation.

Pages: 36

1st Edition | November 2007 | Product Number: TSTP01 | Price: $90.00

SECURITY GUIDELINES FOR THE PETROLEUM INDUSTRY

API's 3rd Edition of this document is now in use at oil and gas facilities around the world to help managers decide how to deter terrorist attacks. Covering all segments of the industry (production, refining, transportation, pipeline, and marketing), this guidance builds on the existing solid foundation of design and operational regulations, standards, and recommended practices, which relate to facility design and safety, environmental protection, emergency response, and protection from theft and vandalism. Produced in close collaboration with the U.S. Department of Homeland Security and other federal agencies, these guidelines, viewed as a living document, are broadly applicable to facility security in light of September 11, 2001 and provide the starting point for developing security plans at oil and natural gas facilities and operations.

Pages: 58

3rd Edition | April 2005 | Product Number: OS0002 | Price: $191.00

You may access this document in a read-only platform: publications.api.org

SECURITY VULNERABILITY ASSESSMENT METHODOLOGY FOR THE PETROLEUM AND PETROCHEMICAL INDUSTRIES

The American Petroleum Institute and the National Petrochemical & Refiners Association jointly developed a new methodology for evaluating the likelihood and consequences of terrorist attacks against refineries and petrochemical facilities. Security Vulnerability Assessment Methodology for Petroleum and Petrochemical Facilities is designed for companies to use in assessing vulnerabilities and potential damages from different kinds of terrorist attacks. In the post September 11 era, companies have reevaluated and enhanced security at their facilities. The methodology will provide officials with a new analytical tool to determine “the likelihood of an adversary successfully exploiting vulnerability and the resulting degree of damage or impact.” This vulnerability assessment methodology was produced in close collaboration with the U.S. Department of Homeland Security and other federal agencies.

Pages: 155

October 2004 | Product Number: OSVA02 | Price: $191.00

You may access this in a read-only platform: publications.api.org

RP 70

SECURITY FOR OFFSHORE OIL AND NATURAL GAS OPERATIONS

Intended to assist the offshore oil and natural gas drilling and producing operators and contractors in assessing security needs during the performance of oil and natural gas operations. It includes information on security awareness, conducting security vulnerability assessments when warranted, and developing security plans for offshore facilities.

Pages: 15

1st Edition | March 2003 | Reaffirmed: September 2010

Product Number: G07001 | Price: $57.00

RP 70I

SECURITY FOR WORLDWIDE OFFSHORE OIL AND NATURAL GAS OPERATIONS

Intended to assist the offshore oil and natural gas drilling and producing operators and contractors in assessing security needs during the performance of oil and natural gas operations worldwide.

Pages: 14

1st Edition | April 2004 | Reaffirmed: January 2012

Product Number: G70013 | Price: $61.00