



## API 17D flange specification

### Size range

1/2" to 48"

### Flange pressure rating

Class 150 - 2500

### Production process

- Forging
- Casting
- Cutting
- Rolling



MTC EN 10204 3.1 & 3.2

### Dimensional standards

- ASME B16.5
- ASME B16.47 Series A & B
- MSS SP44

### Types of flanges

- Blind Flange
- Weld Neck Flange
- Slip On Flange
- Socket Weld Flange
- Threaded Flange
- Lap Joint Flange
- Spectacle Blind Flange
- Forged Flanges
- Plate Flange

# Api 17d Standard

**Weicheng Cui, Shixiao Fu, Zhiqiang Hu**

## Api 17d Standard:

*Subsea Valves and Actuators for the Oil and Gas Industry* Karan Sotoodeh, 2021-05-29 Piping and valve engineers rely on common industrial standards for selecting and maintaining valves but these standards are not specific to the subsea oil and gas industry. *Subsea Valves and Actuators for the Oil and Gas Industry* delivers a needed reference to go beyond the standard to specify how to select test and maintain the right subsea oil and gas valve for the project. Each chapter focuses on a specific type of valve with a built-in structured table on valve selection helping guide the engineer to the most efficient valve. Covering subsea specific protection, the reference also gives information on high pressure protection systems HIPPS and discusses corrosion management within the subsea sector such as Hydrogen Induced Stress Cracking Corrosion HISC. Additional benefits include understanding the concept of different safety valves in subsea, selecting different valves and actuators located on subsea structures such as Christmas trees, manifolds and HIPPS modules with a full detail review including sensors, logic solver and solenoid which is designed to save cost and improve the reliability in the subsea system. Rounding out with chapters on factory acceptance testing FAT and High Integrity Pressure Protection Systems HIPPS, *Subsea Valves and Actuators for the Oil and Gas Industry* gives subsea engineers and managers a much needed tool to better understand today's subsea technology. Understand practical information about all types of subsea valves and actuators with over 600 visuals and several case studies. Learn and review the applicable standards and specifications from API and ISO in one convenient location. Protect your assets with a high pressure protection system HIPPS and subsea specific corrosion management including Hydrogen Induced Stress Cracking Corrosion HISC. [Prevention of Actuator Emissions in the Oil and Gas Industry](#) Karan Sotoodeh, 2021-06-02 *Prevention of Actuator Emissions in the Oil and Gas Industry* delivers a critical reference for oil and gas engineers and managers to get up to speed on all the factors in actuator fugitive emissions. Packed with a selection process, the benefits of switching to an electric system and the technology around open and closed loop hydraulic systems helps today's engineer understand all their options. Rounding with a detailed explanation around High Integrity Pressure Protection Systems HIPPS, this book gives provides the knowledge necessary to lower emissions on today's equipment. Gives readers all they need to understand all the sources and key factors contributing to fugitive emissions and leakage from oil and gas actuators. Teaches how to select environmentally friendly actuators particularly all electric systems. Introduces the High Integrity Pressure Protection System HIPPS and the ways it reduces flaring. *The ROV Manual* Robert D Christ, Robert L. Wernli Sr, 2013-10-16 Written by two well known experts in the field with input from a broad network of industry specialists, *The ROV Manual* Second Edition provides a complete training and reference guide to the use of observation class ROVs for surveying, inspection and research purposes. This new edition has been thoroughly revised and substantially expanded with nine new chapters, increased coverage of mid-sized ROVs and extensive information on subsystems and enabling technologies. Useful tips are included throughout to guide users in gaining the maximum benefit.

from ROV technology in deep water applications Intended for marine and offshore engineers and technicians using ROVs The ROV Manual Second Edition is also suitable for use by ROV designers and project managers in client companies making use of ROV technology A complete user guide to observation class ROV remotely operated vehicle technology and underwater deployment for industrial commercial scientific and recreational tasks Substantially expanded with nine new chapters and a new five part structure separating information on the industry the vehicle payload sensors and other aspects Packed with hard won insights and advice to help you achieve mission results quickly and efficiently

*Metallurgy and Corrosion Control in Oil and Gas Production* Robert Heidersbach, 2018-09-17 Details the proper methods to assess prevent and reduce corrosion in the oil industry using today's most advanced technologies This book discusses upstream operations with an emphasis on production and pipelines which are closely tied to upstream operations It also examines protective coatings alloy selection chemical treatments and cathodic protection the main means of corrosion control The strength and hardness levels of metals is also discussed as this affects the resistance of metals to hydrogen embrittlement a major concern for high strength steels and some other alloys It is intended for use by personnel with limited backgrounds in chemistry metallurgy and corrosion and will give them a general understanding of how and why corrosion occurs and the practical approaches to how the effects of corrosion can be mitigated Metallurgy and Corrosion Control in Oil and Gas Production Second Edition updates the original chapters while including a new case studies chapter Beginning with an introduction to oilfield metallurgy and corrosion control the book provides in depth coverage of the field with chapters on chemistry of corrosion corrosive environments materials forms of corrosion corrosion control inspection monitoring and testing and oilfield equipment Covers all aspects of upstream oil and gas production from downhole drilling to pipelines and tanker terminal operations Offers an introduction to corrosion for entry level corrosion control specialists Contains detailed photographs to illustrate descriptions in the text Metallurgy and Corrosion Control in Oil and Gas Production Second Edition is an excellent book for engineers and related professionals in the oil and gas production industries It will also be an asset to the entry level corrosion control professional who may have a theoretical background in metallurgy chemistry or a related field but who needs to understand the practical limitations of large scale industrial operations associated with oil and gas production

**High-Performance Bolting**

**Technology for Offshore Oil and Natural Gas Operations** National Academies of Sciences, Engineering, and Medicine, National Academy of Engineering, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Connector Reliability for Offshore Oil and Natural Gas Operations, 2018-07-12

Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States Advances in locating deposits and improvements in drilling and recovery technology have made it technically and economically feasible to extract these resources under harsh conditions But extracting these offshore petroleum resources involves the possibility however remote of oil spills with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of

those performing the extraction The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can quickly disperse the oil over a large area and thus cleanup can be problematic Bolted connections are an integral feature of deep water well operations High Performance Bolting Technology for Offshore Oil and Natural Gas Operations summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment as well as best practices from other industrial sectors It focuses on critical bolting bolts studs nuts and fasteners used on critical connections API 17D : specification for subsea wellhead and christmas tree equipment, including supplements 1 & 2

API.,1992 **Proceedings - Offshore Technology Conference** ,1998 Handbook of Nondestructive Evaluation 4.0  
Norbert Meyendorf,Nathan Ida,Ripudaman (Ripi) Singh,Johannes Vrana,2025-06-29 This handbook now as second edition continues to comprehensively cover the cutting edge trends and techniques essential for the integration of nondestructive evaluation NDE into the changing face of the modern industrial landscape In particular it delves into the marriage of NDE with new techniques in e g data mining and management cloud computing autonomous operation AI for data analysis and decision making as well as cyber security highlighting the potential for cyber physical controlled production and discussing the myriad possible applications across many different industries The Handbook of NDE 4 0 centers around the Industry 4 0 philosophy the next generation of industrial production encompassing all aspects of networking across all industrial areas It discusses the adaptation of existing NDE techniques to emerging new technological areas such as 3D printing via the introduction of cyber systems into the inspection and maintenance processes In addition the handbook covers topics such as the management and processing of big data with respect to real time monitoring of structural integrity and reliable inspection of individual components Remote NDE to include competence not available on site will be a potential technique to increase reliability of NDE inspections by integrating additional specialist inputs into the decision process by methods such as telepresence thereby better leveraging the scarce resources of senior inspectors into industrial inspections at multiple sites The handbook also includes non technical topics of direct relevance to leadership management and adoption of this new philosophy The handbook houses a wealth of essential information to help academics industry professionals regulatory bodies and entrepreneurs navigate through this burgeoning new field The material in this handbook is presented with the intention of ultimately improving human safety through reliable inspections and dependable maintenance of critical infrastructure while also enhancing business value through reduced downtime affordable maintenance and talent optimization The content is positioned to inspire NDE professionals to think broadly in terms of their role as continuous value add rather than discrete decision support This second edition contains many new chapters and half of all chapters were revised from the 1st edition based on the engagement of authors through global platforms such as the ICDNT Specialist International Group on NDE 4 0 and the International conference series on NDE 4 0 **Case Studies of Material Corrosion Prevention for Oil and Gas Valves** Karan Sotoodeh,2022-06-07 Case Studies of Material Corrosion Prevention for Oil and Gas Valves delivers a critical

reference for engineers and corrosion researchers Packed with nearly 30 real world case studies this reference gives engineers standardized knowledge on how to maintain select and prevent typical corrosion problems in a variety of oil and gas settings Subsea offshore refineries and processing plants are all included covering a variety of challenges such as chloride stress cracking how to use Teflon powder to prevent cross contamination and carbon dioxide corrosion Organized for quick discovery this book gives engineers a much needed tool to safely protect their assets and the environment Engineers working in oil and gas operations understand that corrosion is a costly expense that increases emissions and damages the environment but many standards do not provide practical examples with solutions leaving engineers to learn through experience This resource provides comprehensive information on topics of interest Provides solutions to common oil and gas corrosion valve failures with standard case studies Helps readers improve safety and reliability with the addition of references for further training Presents tactics on how to reduce environmental impact and use methods to prevent corrosion across offshore subsea and refinery activities

**Corrosion Control in the Oil and Gas Industry** Sankara Papavinasam, 2013-10-15 The effect of corrosion in the oil industry leads to the failure of parts This failure results in shutting down the plant to clean the facility The annual cost of corrosion to the oil and gas industry in the United States alone is estimated at 27 billion According to NACE International leading some to estimate the global annual cost to the oil and gas industry as exceeding 60 billion In addition corrosion commonly causes serious environmental problems such as spills and releases An essential resource for all those who are involved in the corrosion management of oil and gas infrastructure Corrosion Control in the Oil and Gas Industry provides engineers and designers with the tools and methods to design and implement comprehensive corrosion management programs for oil and gas infrastructures The book addresses all segments of the industry including production transmission storage refining and distribution Selects cost effective methods to control corrosion Quantitatively measures and estimates corrosion rates Treats oil and gas infrastructures as systems in order to avoid the impacts that changes to one segment if a corrosion management program may have on others Provides a gateway to more than 1 000 industry best practices and international standards

[Dictionary of Industrial Terminology](#) Michael D. Holloway, Emma Holloway, 2020-12-09 This is the most comprehensive dictionary of maintenance and reliability terms ever compiled covering the process manufacturing and other related industries every major area of engineering used in industry and more The over 15 000 entries are all alphabetically arranged and include special features to encourage usage and understanding They are supplemented by hundreds of figures and tables that clearly demonstrate the principles concepts behind important process control instrumentation reliability machinery asset management lubrication corrosion and much much more With contributions by leading researchers in the field Zaki Yamani Bin Zakaria Department Chemical Engineering Faculty Universiti Teknologi Malaysia Malaysia Prof Jelenka B Savkovic Stevanovic Chemical Engineering Dept University of Belgrade Serbia Jim Drago PE Garlock an EnPro Industries family of companies USA Robert Perez President of Pumpcalcs

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*Deepwater Flexible Risers and Pipelines* Yong Bai, 2021-02-03 The technology processes materials and theories surrounding pipeline construction application and troubleshooting are constantly changing and this new series Advances in Pipes and Pipelines has been created to meet the needs of engineers and scientists to keep them up to date and informed of all of these advances This second volume in the series focuses on flexible pipelines risers and umbilicals offering the engineer the most thorough coverage of the state of the art available The authors of this work have written numerous books and papers on these subjects and are some of the most influential authors on flexible pipes in the world contributing much of the literature on this subject to the industry This new volume is a presentation of some of the most cutting edge technological advances in technical publishing The first volume in this series published by Wiley Scrivener is Flexible Pipes available at [www.wiley.com](http://www.wiley.com) Laying the foundation for the series it is a groundbreaking work written by some of the world s foremost authorities on pipes and pipelines Continuing in this series the editors have compiled the second volume equally as groundbreaking expanding the scope to pipelines risers and umbilicals This is the most comprehensive and in depth series on pipelines covering not just the various materials and their aspects that make them different but every process that goes into their installation operation and design This is the future of pipelines and it is an important breakthrough A must have for the veteran engineer and student alike this volume is an important new advancement in the energy industry a strong link in the chain of the world s energy production

*Subsea Engineering Handbook* Yong Bai, Qiang Bai, 2018-11-15 The offshore industry continues to drive the oil and gas market into deeper drilling depths more advanced subsea systems and cross into multiple disciplines to further technology and equipment Engineers and managers have learned that in order to keep up with the evolving market they must have an all inclusive solution reference Subsea Engineering Handbook Second Edition remains the go to source for everything related to offshore oil and gas engineering Enhanced with new information spanning control systems equipment QRA electric tree structures and manifold designs this reference is still the one product engineers rely on to understand all components of subsea technology Packed with new chapters on subsea processing and boosting equipment as well as coverage on newer valves and actuators this handbook explains subsea challenges and discussions in a

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engineering is vital in the 21st century      *Prevention of Valve Fugitive Emissions in the Oil and Gas Industry* Karan Sotoodeh,2021-05-24 Prevention of Valve Fugitive Emissions in the Oil and Gas Industry delivers a critical reference for oil and gas engineers and managers to get up to speed on all factors surrounding valve fugitive emissions New technology is included on monitoring with special attention given to valve seals which are typically the biggest emitting factor on the valve Proper testing requirements to mitigate future leaks are also covered Rounding out with international standards laws and specifications to apply to projects around the world this book gives today s engineers updated knowledge on how to lower emissions on today s equipment Helps readers understand the sources and key factors that contribute to fugitive emissions and leakage from oil and gas valves Teaches ways to select proper seals and perform valve testing to mitigate future emissions Includes international standards laws and specifications to help readers stay compliant and environmentally responsible      *Ship-Shaped Offshore Installations* Jeom Kee Paik,Anil Kumar Thayamballi,2007-01-15 Ship shaped offshore units are some of the more economical systems for the development of offshore oil and gas and are often preferred in marginal fields These systems are especially attractive to develop oil and gas fields in deep and ultra deep water areas and remote locations away from existing pipeline infrastructures Recently the ship shaped offshore units have been applied to near shore oil and gas terminals This 2007 text is an ideal reference on the technologies for design building and operation of ship shaped offshore units within inevitable space requirements The book includes a range of topics from the initial contracting strategy to decommissioning and the removal of the units concerned Coverage includes both fundamental theory and principles of the individual technologies This book will be useful to students who will be approaching the subject for the first time as well as designers working on the engineering for ship shaped offshore installations      Proceedings ... SPE Annual Technical Conference and Exhibition Society of Petroleum Engineers (U.S.). Technical Conference and Exhibition,1995

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