

## Torque Values for Spiral Wound Gaskets with Outer Ring only

NPS	Class 150					Class 300					Class 600				
	Stud Dimensions			SA 193 87	SA 193 87M	Stud Dimensions			SA 193 87	SA 193 87M	Stud Dimensions			SA 193 87	SA 193 87M
	Number of Studs	Diameter (in.)	Length (in.)	Torque (ft.-lbs)	Torque (ft.-lbs)	Number of Studs	Diameter (in.)	Length (in.)	Torque (ft.-lbs)	Torque (ft.-lbs)	Number of Studs	Diameter (in.)	Length (in.)	Torque (ft.-lbs)	Torque (ft.-lbs)
¾	4	¾	2 ¾	35	30	4	¾	2 ¾	35	30	4	¾	3	35	30
¾	4	¾	2 ¾	35	30	4	¾	3	65	60	4	¾	3 ¾	65	60
1	4	¾	2 ¾	35	30	4	¾	3	65	60	4	¾	3 ¾	65	60
1 ¼	4	¾	2 ¾	35	30	4	¾	3 ¾	65	60	4	¾	3 ¾	65	60
1 ½	4	¾	2 ¾	45	35	4	¾	3 ¾	110	100	4	¾	4 ¾	110	100
2	4	¾	3 ¾	75	60	8	¾	3 ¾	65	60	8	¾	4 ¾	65	60
2 ½	4	¾	3 ¾	85	65	8	¾	4	110	100	8	¾	4 ¾	110	100
3	4	¾	3 ¾	105	90	8	¾	4 ¾	110	100	8	¾	5	110	100
3 ½	8	¾	3 ¾	75	60	8	¾	4 ¾	110	100	8	¾	5 ¾	190	170
4	8	¾	3 ¾	95	75	8	¾	4 ¾	120	100	8	¾	5 ¾	215	190
5	8	¾	3 ¾	130	100	8	¾	4 ¾	135	110	8	¾	6 ¾	320	280
6	8	¾	4	165	130	12	¾	4 ¾	135	110	12	¾	6 ¾	295	260
8	8	¾	4 ¾	190	180	12	¾	5 ¾	220	180	12	1 ¼	7 ¾	455	400
10	12	¾	4 ¾	245	190	16	¾	6 ¾	270	250	16	1 ¼	8 ¾	545	500
12	12	¾	4 ¾	280	240	16	1 ¼	6 ¾	290	260	20	1 ¼	8 ¾	555	500
14	12	¾	5 ¾	395	300	20	1 ¼	7	390	360	20	1 ¼	9 ¾	740	680
16	16	¾	5 ¾	400	310	20	1 ¼	7 ¾	545	500	20	1 ¼	10	870	800
18	16	1 ¼	5 ¾	605	500	24	1 ¼	7 ¾	590	500	20	1 ¼	10 ¾	1195	1100
20	20	1 ¼	6 ¾	570	435	24	1 ¼	8	620	500	24	1 ¼	11 ¾	1195	1100
24	20	1 ¼	6 ¾	810	620	24	1 ¼	9	915	800	24	1 ¼	13	2170	2000
26	24	1 ¼	8 ¾	585	500	28	1 ¼	10 ¾	1190	1100	28	1 ¼	14	1495	1320
28	28	1 ¼	9	585	500	28	1 ¼	11	1390	1100	28	2	14 ¾	1625	1420
30	28	1 ¼	9 ¾	585	500	28	1 ¼	11 ¾	1625	1500	28	2	14 ¾	1725	1610
32	28	1 ¼	10 ¾	935	800	28	1 ¼	12 ¾	2165	2000	28	2 ¼	15 ¾	2340	2000
34	32	1 ¼	10 ¾	935	800	28	1 ¼	13	2165	2000	28	2 ¼	15 ¾	2450	2245
36	32	1 ¼	11 ¾	935	800	32	2	13 ¾	2385	2200	28	2 ¼	16 ¾	3200	2740

# Bolt Torque Specs For Cast Iron Flanges

**ASTM International, American Society  
for Testing and Materials**

A decorative red circular graphic element with a gradient, positioned to the right of the text box.

## **Bolt Torque Specs For Cast Iron Flanges:**

**Practical Plant Failure Analysis** P.E. Sachs,2019-10-08 This is a practical guide for those who do the work of maintaining and improving the reliability of mechanical machinery It is for engineers and skilled trades personnel who want to understand how failures happen and how the physical causes of the great majority can be readily diagnosed in the field It explains the four major failure mechanisms wear corrosion overload and fatigue and using easy to read charts how they can be diagnosed at the site of the failure Then knowing the physical failure mechanics involved the reader can accurately solve the human causes To improve the reader s understanding all the diagrams and most of the tables have been redrawn The number of actual failure examples has been increased plus the last chapter on miscellaneous machine elements includes new material on couplings universal joints and plain bearings Features A practical field guide showing how to recognize how failures occur that can be used to solve more than 85% of mechanical machinery failures Incorporates multiple easy to follow logic trees to help the reader diagnose the physical causes of the failure without needing detailed laboratory analysis Explains how the mechanics corrosion materials science and tribology of components can fit together to improve machinery reliability Includes more than 150 completely redrawn charts and tables plus almost 250 actual failure photographs to help guide the reader to an accurate analysis Contains clear and detailed explanations of how lubricants function and the critical roles of corrosion and lubrication play in causing mechanical failures **Sprinkler Fitter** NCCER Staff,1996 *Marks' Standard Handbook for Mechanical Engineers* Eugene A. Avallone,Theodore Baumeister,Ali M. Sadegh,2006-12-07 Solve any mechanical engineering problem quickly and easily with the world s leading engineering handbook Nearly 1800 pages of mechanical engineering facts figures standards and practices 2000 illustrations and 900 tables clarifying important mathematical and engineering principle and the collective wisdom of 160 experts help you answer any analytical design and application question you will ever have **Annual Report on Hazardous Materials Transportation** United States. Materials Transportation Bureau,1974 *Marks' Standard Handbook for Mechanical Engineers, 12th Edition* Ali M. Sadegh,William M. Worek,2017-11-10 The 100th Anniversary Edition of the Bible for Mechanical Engineers Fully Revised to Focus on the Core Subjects Critical to the Discipline This 100th Anniversary Edition has been extensively updated to deliver current authoritative coverage of the topics most critical to today s Mechanical Engineer Featuring contributions from more than 160 global experts Marks Standard Handbook for Mechanical Engineers Twelfth Edition offers instant access to a wealth of practical information on every essential aspect of mechanical engineering It provides clear concise answers to thousands of mechanical engineering questions You get accurate data and calculations along with clear explanations of current principles important codes standards and practices All new sections cover micro and nano engineering robotic vision alternative energy production biological materials biomechanics composite materials engineering ethics and much more Coverage includes Mechanics of solids and fluids Heat Strength of materials Materials of engineering Fuels and furnaces

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**Pick-ups Automotive Repair Manual** David Hayden, John Harold Haynes, 1990      **World Wastes** ,1994      Product Engineering ,1961 Vol for 1955 includes an issue with title Product design handbook issue 1956 Product design digest issue 1957 Design digest issue      PERRY'S CHEMICAL ENGINEER'S HANDBOOK 8/E SECTION 10 TRANSP&STORAGE FLUIDS (POD) Don W. Green, 2007-10-26 Now in its eighth edition Perry's Chemical Engineers Handbook offers unrivaled up to date coverage of all aspects of chemical engineering For the first time individual sections are available for purchase Now you can receive only the content you need for a fraction of the price of the entire volume Streamline your research pinpoint specialized information and save money by ordering single sections of this definitive chemical engineering reference today First published in 1934 Perry's Chemical Engineers Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data Now updated to reflect the latest technology and processes of the new millennium the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering from fundamental principles to chemical processes and equipment to new computer applications Filled with over 700 detailed illustrations the Eighth Edition of Perry's Chemical Engineers Handbook features Comprehensive tables and charts for unit conversion A greatly expanded section on physical and chemical data New to this edition the latest advances in distillation liquid liquid extraction reactor modeling biological processes biochemical and membrane separation processes and chemical plant safety practices with accident case histories      Annual Book of ASTM Standards American Society for Testing and Materials, 1987 Index to ASTM standards issued as last part of each vol      Annual Book of ASTM Standards ASTM International, American Society for Testing and Materials, 2004      *Perry's Chemical Engineers' Handbook, 9th Edition* Don W. Green, Marylee Z. Southard, 2018-07-13 Up to Date Coverage of All Chemical Engineering Topics from the Fundamentals to the State of the Art Now in its 85th Anniversary Edition this industry standard resource has equipped generations of engineers and chemists with vital information data and insights Thoroughly revised to reflect the latest technological advances and processes Perry's Chemical Engineers Handbook Ninth Edition provides unsurpassed coverage of every aspect of chemical engineering You will get comprehensive details on chemical processes reactor modeling biological processes biochemical and membrane separation process and chemical plant safety and much more This fully updated edition covers Unit Conversion Factors and Symbols Physical and Chemical Data including Prediction and Correlation of Physical Properties Mathematics including Differential and Integral Calculus Statistics Optimization Thermodynamics Heat and Mass Transfer Fluid and Particle Dynamics Reaction Kinetics Process Control and Instrumentation Process Economics Transport and Storage of Fluids Heat Transfer Operations and Equipment Psychrometry Evaporative Cooling and Solids Drying Distillation Gas Absorption and Gas Liquid System Design Liquid Liquid Extraction Operations and Equipment Adsorption and Ion Exchange Gas Solid Operations and Equipment Liquid Solid Operations and Equipment Solid Solid Operations and Equipment Chemical Reactors Bio based Reactions and Processing Waste Management including Air

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