Standards & Regulations for Flange Gaskets

22.05.2020

European Sealing Association e.V.

Standard I.D.	Revision	Standard Title	Description	Type	Jurisdiction	Applicable Region(s)	Standard Status	Status & Comment
EN 1514 - 1	2013	Flanges and Joints - Dimensions of Gaskets for PN-Designated Flanges Part 1: Non-Metallic Flat Gaskets With or Without Inserts	This standards specifies dimensions for non-metallic flat gaskets with or without inserts for PN flanges	Industry	Europe	Primarily Europe	Under review	
EN 1514 - 2	2014	Flanges and Joints - Dimensions of Gaskets for PN-Designated Flanges Part 2: Spiral Wound Gaskets for Use with Steel Flanges	This standard specifies the dimensions and marking of spiral wound gaskets for use in conjunction with flat face and raised face flanges complying with the requirements of EN 1092-1 for PN 10, PN 16, PN 25, PN 40, PN 63, PN 100 and PN 160 and up to and including DN 1 000	Industry	Europe	Primarily Europe	Under review	
EN 1514 - 3	1997	Flanges and their Joints - Dimensions of Gaskets for PN-Designated Flanges - Part 3: Non-Metallic PTFE Envelope Gaskets	This standard specifies the dimensions and marking of IBC (inside bolt circle) non-metallic envelope gaskets for use with flanges complying with EN 1092 Parts 1, 2, 3, 4, for PN 6 up to and including PN 63, up to and including DN 600.	Industry	Europe	Primarily Europe	Active	
EN 1514 - 4	1997	Flanges and their joints - Dimensions of gaskets for PN-designated flanges - Part 4: Corrugated, flat or grooved metallic and filled metallic gaskets for use with steel flanges	This standard specifies the dimensions and marking of IBC (inside bolt circle) corrugated, flat or grooved metallic and filled metallic gaskets for use in conjunction with flanges complying with EN 1092: Part 1 for PN 10, PN 16, PN 25,PN 40, PN 63 and PN 100, up to and including DN 900.	Industry	Europe	Primarily Europe	Active	
EN 1514 - 6	2003	Flanges and their Joints - Covered Serrated Metal Gaskets for Use with Steel Flanges	Describes the construction, dimensions and marking of covered serrated metal gaskets for use with flanges complying with EN 1092-1 for PN 10, PN 16, PN 25, PN 40, PN 63 and PN 100 up to and including DN 3000.	Industry	Europe	Primarily Europe	Active	
EN 1514 - 7	2004	Flanges and their Joints - Covered Metal Jacketed Gaskets for Use with Steel Flange	Details the construction, dimensions and marking of covered metal jacketed gaskets for use with flanges complying with EN 1092-1 for PN 2,5, PN 6, PN 10, PN 16, PN 25, PN 40, PN 63 and PN 100 up to and including DN 900.	Industry	Europe	Primarily Europe	Active	
EN 1514 - 8	2004	Flanges and their Joints - Polymeric O-Ring Gaskets for Grooved Flanges	Specifies the dimensions of polymeric O-Ring gaskets for use with grooved flanges complying with EN 1092 for PN 10, PN 16, PN 25, PN 40.	Industry	Europe	Primarily Europe	Active	
EN 1591 - 1	2013	Flanges And Their Joints - Design Rules For Gasketed Circular Flange Connections	This European Standard defines a calculation method for bolted, gasketed, circular flange joints. Its purpose is to ensure structural integrity and control of leak tightness. It uses gasket parameters based on definitions and test methods specified in EN 13555.	Industry	Europe	Primarily Europe	Active	
EN 1591 - 2	2008	Flanges and their joints - Design rules for gasketed circular flange connections - Gasket parameters	BS EN 1591-2 details generic gasket parameters for use in BS EN 1591-1 during preliminary calculations during which the type of gasket to be used in an application is to be decided.	Industry	Europe	Primarily Europe	Withdrawn	Replaced by PD CEN/TR 1591-2:2020

EN 1591 - 3	2004	Flanges and their joints - Design rules for gasketed circular flange connections - Calculation method for metal to metal contact type flanged joint	This standard describes a calcuation method for metal to metal contact flanges. It serves as an alternative to design validation by other means e.g.: Special testing or proven practice.	Industry	Europe	Primarily Europe	Draft	
EN 1591 - 4	2013	Flanges and their joints - Qualification of Personnel Competency in the Assembly of Bolted Joints Fitted to Equipment	This European Standard is applicable to the bolting technicians, and their supervisors, the responsible engineers, who disassemble, assemble and tighten the bolted connections of whatever shape of critical service pressurised systems.	Industry	Europe	Primarily Europe	Under review	
EN 1591 - 5	2012	Flanges and their Joints - Calculation Method for Full Face Gasketed Joints	This Technical Report gives guidance for the calculation of full face gasketed joints on the basis of the calculation method given in EN 1591-1.	Industry	Europe	Primarily Europe	Active	
EN 1759	2004	Flanges and their joints. Circular flanges for pipes, valves, fittings and accessories, class-designated. Steel flanges, NPS 1/2 to 24	This standard specifies the flange types and their facings, dimensions, tolerances, threading, bolt sizes, flange jointing face surface finish, marking, materials and pressure/temperature ratings.	Industry	Europe	Primarily Europe	Active	
EN 12560 - 1	2001	Flanges and their joints. Gaskets for Class-designated flanges. Non-metallic flat gaskets with or without inserts	This standard specifies the dimensions, types, design, materials and marking requirements of non-metallic flat gaskets with or without inserts, for use with flanges complying with EN 1759-1, EN 1759-3 and EN 1759-4, for Class designations 150, 300, 600 and 900 for sizes up to and including NPS 24 (DN600).	Industry	Europe	Primarily Europe	Under review	
EN 12560 - 2	2013	Flanges and their joints. Dimensions of gaskets for Class-designated flanges. Spiral wound gaskets for use with steel flanges	This European Standard specifies the dimensions, design, types, designation, materials and marking of spiral wound gaskets for use with type A flat face or type B raised face flange facings complying with EN 1759-1 for the following Class designations: - Class 150, to Class 1 500 for nominal sizes DN 15 to DN 600, and - Class designation 2 500 up to and including DN 300.	Industry	Europe	Primarily Europe	Under review	
EN 12560 - 3	2001	Flanges and their joints - Gaskets for class-designated flanges - Part 3: Non-metallic PTFE envelope gaskets	This standard specifies the dimensions, types, design, materials and marking requirements of IBC (inside bolt circle) non-metallic PTFE envelope gaskets for use with flanges complying with EN 1759-1, EN 1759-3, EN 1759-4 for Class designation 150 and 300 for sizes up to and including NPS 24 (DN600).	Industry	Europe	Primarily Europe	Active	

EN 12560 - 4	2001	Flanges and their joints. Gaskets for Class-designated flanges. Corrugated, flat or grooved metallic and filled metallic gaskets for use with steel flanges	This standard specifies the dimensions, types, design and marking requirements of corrugated, flat or grooved metallic filled metallic gaskets for use in conjunction with flanges complying with EN 1759-1 for Class designations 150, 300, 600, 900 and 1500 for sizes up to and including NPS 24 (DN600), and for Class designation 2500 for nominal size designations up to and including NPS 12 (DN300).	Industry	Europe	Primarily Europe	Active	
EN 12560 - 5	2001	Flanges and their joints - Gaskets for class-designated flanges - Part 5: Metallic ring-joint gaskets for use with steel flanges	This standard specifies the dimensions, types, design, materials and marking requirements of metallic ring-joint gaskets for use in conjunction with specific flange facings (type J) of flanges complying with EN 1759-1 for Class designations 150, 300, 600, 900 and 1500 for nominal size designations up to and including NPS 24 (DN600), and for Class designation 2500 up to and including NPS 12 (DN300).	Industry	Europe	Primarily Europe	Active	
EN 12560 - 6	2003	Flanges and their joints. Gaskets for class-designated flanges. Covered serrated metal gaskets for use with steel flanges	This European Standard specifies the construction, dimensions and marking of covered serrated metal gaskets for use with flanges complying with prEN 1759-1 for Class 150, Class 300, Class 600, Class 900, Class 1500 and Class 2500 up to and including NPS 24.	Industry	Europe	Primarily Europe	Under review	
EN 12560 - 7	2004	Flanges and their joints. Gaskets for class-designated flanges. Covered metal jacketed gaskets for use with steel flanges	This European Standard specifies the construction, dimensions and marking of covered serrated metal jacketed gaskets for use with flanges complying with prEN 1759 1 for Class 150, Class 300, Class 600, Class 900.	Industry	Europe	Primarily Europe	Active	
En 13555	2014	Flanges And Their Joints – Gasket Parameters And Test Procedures Relevant To The Design Rules For Gasketed Circular Flange Connections	This standard specifies the gasket parameters required by EN 1591-1 and provides the test procedures for establishing the values of these parameters.	Industry	Europe	Primarily Europe	Active	
EN 14772	2005	Flanges And Their Joints – Quality Assurance Inspection And Testing Of Gaskets In Accordance With The Series Of Standards CEN EN 1514 And CEN EN 12560	This standard describes inspection and testing procedures for gaskets in relation to quality assurance.	Industry	Europe	Primarily Europe	Active	
DIN 2696	1999	Flange connections with lens shaped gasket	Applicable to lenticular ring joint gaskets for flanged joints in piping systems operating at pressures exceeding 63 bar. Describes dimensions and the design of DN 10 to DN 200 gaskets rated for pressures from 63 bar to 400 bar.	Industry	Germany	Primarily Europe	Active	
DIN 3535-6	2011	Gaskets for gas supply - Part 6: Gasket materials based on fibres, graphite or polytetrafluoroethylene (PTFE) for gas valves, gas appliances and gas mains	This standard specifies requirements and tests for materials based on fibres, graphite or PTFE for flat gaskets used for gas valves, gas appliances and gas mains.	Industry	Germany	Primarily Europe	Active	

DIN 28090-1	1995	Static gaskets for flange connections - Part 1: Characteristic values and test procedures	This standard describes gasket values and their related test procedures	Industry	Germany	Primarily Europe	Withdrawn	Replaced by EN 13555
DIN 28090-2	2014	Static gaskets for flange connections - Gaskets made from sheets - Part 2: Special test procedures for quality assurance	This standard describes quality related test procedures for gaskets	Industry	Germany	Primarily Europe	Active	
DIN 86076	2007	Gasket sheets for ship building - Requirements and tests	This standard covers gasket sheets made from elastomers, fibers and graphite and gaskets made from these materials, especially for pipe and valve flanges on ships.	Industry	Germany	Primarily Europe	Active	
ISO 7005-1	2005	Pipe flanges — Part 1: Steel flanges for industrial and general service piping systems	This document establishes a base specification for pipe flanges suitable for general purpose and industrial applications including, but not limited to, chemical process industries, electric power generating industries, petroleum and natural gas industries.	Industry	World wide	World wide	Active	
ISO 7005-2	1988	Metallic flanges — Part 2: Cast iron flanges	This part of ISO 7005 is based on the American and European cast iron flange systems which have been combined to produce one International Standard with some changes to the dimensions specified in the two systems.	Industry	World wide	World wide	Active	
ISO 7005-3	1988	Metallic flanges — Part 3: Copper alloy and composite flanges	This part of ISO 7005 for a single system of flanges specifies requirements for circular copper alloy and composite flanges for nominal pressure ratings.	Industry	World wide	World wide	Active	
ISO 7483	1991	Dimensions of gaskets for use with flanges to ISO 7005	Specifies dimensions for the following types of gaskets: non-metallic flat; spiral wound; metallic ring-joint; non-metallic envelope; corrugated, flat or grooved metallic and filled metallic.	Industry	World wide	World wide	Active	
BS 10	2019	Specification for flanges and bolting for pipes, valves and fittings	Details design temperature and pressure, designation, dimensions and materials, attachment of flanges, hydraulic testing, certification and low temperature flanges and bolting. For use with pipes, valves and fittings containing steam, oil, compressed air or water within specific stated temperature ranges and pressure.	Industry	UK	Primarily UK	Under review	
BS 1759-1	2004	Flanges and their joints. Circular flanges for pipes, valves, fittings and accessories, class-designated. Steel flanges, NPS 1/2 to 24	This standard specifies the flange types and their facings, dimensions, tolerances, threading, bolt sizes, flange jointing face surface finish, marking, materials and pressure/temperature ratings.	Industry	UK	Primarily UK	Active	
BS 3063	1965	Specification for dimensions of gaskets for pipe flanges	'Plan' dimensions for 'inside bolt circle' and 'full face' gaskets or pipe flanges in accordance with BS 10 and BS 2035, and 'full face' gaskets for flanges to BS 1770. The tables giving dimensions bear the same designation as the flange tables in the appropriate pipe flange standard. Marking of gaskets for purchasing and identification.	Industry	UK	Primarily UK	Active	
BS 3381	1989	Specification for spiral wound gaskets for steel flanges to BS 1560	Materials, dimensions, marking and packaging of gaskets for use with flat face and raised face flanges to BS 1560-3.1.	Industry	UK	Primarily UK	Active	
BS 4882	1990	Specification for bolting for flanges and pressure containing purposes	General requirements and details of dimensions for metric and inch series.	Industry	UK	Primarily UK	Active	

ASTM F36	2015	Standard Test Method for Compressibility and Recovery of Gasket Materials	This test method covers determination of the short-time compressibility and recovery at room temperature of sheet-gasket materials, form-in-place gaskets, and in certain cases, gaskets cut from sheets.	Industry	USA	Primarily USA	Active	
ASTM F37	2006	Standard Test Methods for Sealability of Gasket Materials	These test methods provide a means of evaluating the sealing properties of sheet and solid form-in-place gasket materials at room temperature.	Industry	USA	Primarily USA	Active	
ASTM F38	2018	Creep Relaxation of a Gasket Material	ASTM F38 provide a means of measuring the amount of creep relaxation of a gasket material at a predetermined time after a compressive stress has been applied.	Industry	USA	Primarily USA	Active	
ASTM F104	2011	Standard Classification System for Nonmetallic Gasket Materials	This classification system provides a means for specifying or describing pertinent properties of commercial nonmetallic gasket materials.	Industry	USA	Primarily USA	Active	
ASTM F112	2000	Standard Test Method for Sealability of Enveloped Gaskets	This test method covers the evaluation of the sealing properties of enveloped gaskets for use with corrosion-resistant process equipment.	Industry	USA	Primarily USA	Active	
ASTM F118	2013	Standard Definitions of Terms Relating to Gaskets	This standard is a compilation of terminology, relateddefinitions, and descriptions of terms used in the gasket industry.	Industry	USA	Primarily USA	Active	
ASTM F145	1972	Standard Practice for Evaluating Flat-Faced Gasketed Joint Assemblies	This practice permits measurement of gasket compression resulting from bolt loading on a flat-face joint assembly at ambient conditions.	Industry	USA	Primarily USA	Active	Reapproval notice 2016
ASTM F146	2012	Standard Test Methods for Fluid Resistance of Gasket Materials	These test methods cover the determination of the effect on physical properties of nonmetallic gasketing materials after immersion in test fluids.	Industry	USA	Primarily USA	Active	Updated by ASTM F146-12(2019)E1
ASTM F147	1987	Standard Test Method for Flexibility of Non-Metallic Gasket Materials	This test method covers the determination of the flexibility of non-metallic gasket materials.	Industry	USA	Primarily USA	Active	Reapproval notice 2017
ASTM F148	2013	Standard Test Method for Binder Durability of Cork Composition Gasket Materials	This test method covers three procedures for determination of the binder durability of cork-containing materials.	Industry	USA	Primarily USA	Active	Reapproval notice 2019
ASTM F363	1999	Standard Test Method for Corrosion Testing of Gaskets	This test method covers the evaluation of gaskets under corrosive conditions at varying temperature and pressure levels.	Industry	USA	Primarily USA	Active	Reapproval notice 2019
ASTM F433	2002	Standard Practice for Evaluating Thermal Conductivity of Gasket Materials	This practice covers a means of measuring the amount of heat transfer quantitatively through a material or system.	Industry	USA	Primarily USA	Active	Reapproval notice 2020
ASTM F434	1993	Standard Test Method for Blow-Out Testing of Preformed Gaskets	This test method covers the determination of the resistance against blow-out of preformed gaskets.	Industry	USA	Primarily USA	Active	Reapproval notice 2017
ASTM F495	1999	Standard Test Method for Weight Loss of Gasket Materials Upon Exposure to Elevated Temperatures	This test method covers the determination of gasket material weight loss upon exposure to elevated temperatures.	Industry	USA	Primarily USA	Active	Reapproval notice 2019
ASTM F607	2003	Standard Test Method for Adhesion of Gasket Materials to Metal Surfaces	This test method provides a means of determining the degree to which gasket materials under compressive load adhere to metal surfaces.	Industry	USA	Primarily USA	Active	Reapproval notice 2019
ASTM F806	1999	Standard Test Method for Compressibility and Recovery of Laminated Composite Gasket Materials	This test method covers determination of the short-time compressibility and recovery at room temperature of laminated composite gasket materials.	Industry	USA	Primarily USA	Active	Reapproval notice 2017

ASTM F868	2017	Standard Classification for Laminated Composite Gasket Materials	This classification covers a means for specifying or describing pertinent properties of commercial laminate composite gasket materials (LCGM).	Industry	USA	Primarily USA	Active	
ASTM F1087	2002	Standard Test Method for Linear Dimensional Stability of a Gasket Material to Moisture	This test method covers a procedure to determine the stability of a gasket material to linear dimensional change due to hygroscopic expansion and contraction.	Industry	USA	Primarily USA	Active	Reapproval notice 2016
ASTM F1276	1999	Standard Test Method for Creep Relaxation of Laminated Composite Gasket Materials	This test method provides a means of measuring the amount of creep relaxation of a laminated composite gasket material at a predetermined time after a compressive stress has been applied.	Industry	USA	Primarily USA	Active	Reapproval notice 2016
ASTM F1277	2002	Standard Test Method for Determination of Leachable Chloride in Packing and Gasketing Materials by Ion-Selective Electrode Technique	This test method provides for the measurement of chloride ion leached from flexible graphite, asbestos, or paper-based packing and gasketing materials.	Industry	USA	Primarily USA	Active	Reapproval notice 2009
ASTM F1315	2017	Standard Test Method for Density of a Sheet Gasket Material	This test method covers a procedure for determining the density of a gasket material.	Industry	USA	Primarily USA	Active	
ASTM F1574	2003	Standard Test Method for Compressive Strength of Gaskets at Elevated Temperatures	Defines the determination of compressive strength characteristics (crush-extrusion resistance) of gasket materials at elevated temperature.	Industry	USA	Primarily USA	Active	Reapproval notice 2017
ASTM F1909	1998	Standard Specification for Preformed Open–Cell Sponge Rubber Pail and Drum Gaskets	This specification covers preformed open-cell sponge rubber gaskets, for use in new or reconditioned pails or drums	Industry	USA	Primarily USA	Active	Reapproval notice 2020
ASTM F2325	2014	Standard Classification for Multi-Layer Steel (MLS) and Other Metal Layer Gaskets for Transportation Applications	This classification is intended to encourage uniformity in reporting properties of MLS and Metal Layer gaskets, to provide a common language for communications between producers and users, and to guide engineers and designers in the application and construction of commercially available gaskets.	Industry	USA	Primarily USA	Active	Reapproval notice 2020
ASTM F2378	2005	Standard Test Method for Sealability of Sheet, Composite, and Solid Form-in-Place Gasket Materials	This test method is designed to compare sealing characteristics of gasket materials under controlled conditions by providing a precise measure of leakage rate at different press loads up to 32 MPa (4640 psi).	Industry	USA	Primarily USA	Active	Reapproval notice 2016
ASTM F2467	2006	Standard Practice for Measuring Static Sealing Pressure Using Pressure-Indicating Film (PIF) in Transportation Applications	This practice is a screening tool and should be used in conjunction with other more accurate real-time load-measuring techniques.	Industry	USA	Primarily USA	Active	Reapproval notice 2019
ASTM F2716	2008	Standard Practice for Comparison of Nonmetallic Flat Gaskets in High Pressure Saturated Steam	This practice may be used to evaluate Classification F104 gasket materials using saturated steam and standard ASME RF (raised face) flanges.	Industry	USA	Primarily USA	Active	Reapproval notice 2020
ASTM F2837	2011	Standard Test Method for Hot Compression Properties of Gasket Materials	This test method covers a means of measuring the hot compression properties of a gasket material by measuring its creep under a constant load at both room temperature and while increasing the temperature.	Industry	USA	Primarily USA	Active	Reapproval notice 2018

ASME B16.5	2017	Pipe Flanges & Flanged Fittings	This standard covers Steel Pipe Flanges and Flanged Fittings from NPS 1/2 through NPS 24 Metric/Inch in pressure class 150 to class 2500. It covers pressure-temperature ratings, materials, dimensions, tolerances, marking, testing, and methods of designating openings for pipe flanges and flanged fittings.	Industry	USA	Primarily USA	Active	
ASME B16.20	2017	Metallic Gaskets for Pipe Flanges	B16.20 offers comprehensive solutions applying to materials, dimensions, tolerances and marking.	Industry	USA	Primarily USA	Active	
ASME B16.21	2016	Nonmetallic Flat Gaskets for Pipe Flanges	This Standard covers types, sizes, materials, dimensions, tolerances, and markings for nonmetallic flat gaskets.	Industry	USA	Primarily USA	Active	
ASME PCC-1	2019	Guidelines for Pressure Boundary Bolted Flange Joint Assembly	The bolted flange joint assembly (BFJA) guidelines described in this document apply to pressure-boundary flanged joints with ring-type gaskets that are entirely within the circle enclosed by the bolt holes and with no contact outside the circle.	Industry	USA	Primarily USA	Active	
JIS B2205	1991	Basis for calculation of pipe flanges	This Japanese Industrial Standard specifies the basis for stress calculation of bolt-fastening pipe flanges using a ring gasket.	Industry	Japan	Japan	Active	Amendment 1 in 2006
JIS B2206	1995	Basis for calculation of aluminium alloy pipe flanges	This Japanese Industrial Standard specifies the basis for stress calculation of bolt-fastening aluminium alloy pipe flanges.	Industry	Japan	Japan	Active	Amendment 1 in 2006
JIS B2207	1995	Basis for calculation of aluminium alloy pipe flanges with full face gasket	This Japanese Industrial Standard specifies the basis for stress calculation of bolt-fastening aluminium alloy pipe flanges using a full face gasket.	Industry	Japan	Japan	Active	Amendment 1 in 2006
JIS B2220	2012	Steel pipe flanges	This Standard specifies steel pipe flanges (hereafter referred to as "flanges") of nominal sizes 10 A to 1 500 A for nominal pressures 5 K, 10K, 10K light type, 16K, 20K, 30K, 40K and 63K which are used to join parts for piping.	Industry	Japan	Japan	Active	
JIS B2239	2004	Cast iron pipe flanges	This Standard specifies cast iron pipe flanges for the nominal pressure 5K, 10K, 10K (thin type), 16K and 20K and with the nominal diameter 10A to 1 500A, which are used for joining steel pipes.	Industry	Japan	Japan	Active	
JIS B2240	2006	Copper Alloy Pipe Flanges	This Japanese Industrial Standard specifies classification of copper alloy pipe flanges of connect pipes and valves used for general pipe arrangements of vapor, air, gas, water, oil, etc.	Industry	Japan	Japan	Active	
JIS B2241	2006	Aluminium alloy pipe flanges	This Japanese Industrial Standard specifies the basic dimensions of aluminium alloy pipe flanges, hereinafter referred to as the "flanges", of 5 K, 10 K and 16 K in nominal pressure to connect pipes, valves, etc. used for piping system of liquid, air, gas, etc.	Industry	Japan	Japan	Active	
JIS B2251	2008	Bolt tightening procedure for pressure boundary flanged joint assembly	This standard describes tightening procedures for flanges.	Industry	Japan	Japan	Active	
JIS B2290	1998	Vacuum technology - Flange dimensions	This Standard specifies the dimensions for flanges and collars used in vacuum technology.	Industry	Japan	Japan	Active	

JIS B2404	2018	Dimensions of gaskets for use with pipe flanges	This Japanese Industrial Standard specifies the dimensions of gaskets for use with the pipe flanges for fluids of steams, water, oils and the like.	Industry	Japan	Japan	Active	
JIS B2490	2008	Test method for sealing behavior of gaskets for pipe flanges	This Japanese Industrial Standard specifies the test method for sealing behaviour of gaskets for pipe flanges at room temperature on which internal pressure works.	Industry	Japan	Japan	Active	
JIS K7036	1998	Plastics piping systems -- Glass-reinforced thermosetting plastics (GRP) pipes and fittings -- Test methods to prove the design of bolted flange joints	This standards describes test methods for design approvals of bolted flange joints.	Industry	Japan	Japan	Active	
API594	8th ed., July 2017	Check Valves: Flanged, Lug, Wafer and Butt-welding	Covers design, material, face-to-face dimensions, pressure-temperature ratings, and examination, inspection, and test requirements for two types of check valves.	Industry	USA	Primarily U.S. and petro-chemical industries	Active	
API598	10th, ed. Oct.2016	Valve Inspection And Testing	Valve production test	Industry	USA	Primarily U.S. and petro-chemical industries	Active	
API599	7th, ed. January 2013	Metal Plug Valves—Flanged, Threaded, and Welding Ends	Valve standard covering design, materials, face-to-face dimensions, pressure-temperature ratings, and examination, inspection, and test requirements for metallic plug valves	Industry	USA	Primarily U.S. and petro-chemical industries	8th, ed. - in revision	
API600	13th ed. Jan , 2015	Steel Gate Valves—Flanged and Butt-welding Ends, Bolted Bonnets	Valve standard Covering design, material, dimensions, ratings, examination and inspection, and test requirements.	Industry	USA	Primarily U.S. and petro-chemical industries	Active	
API602	10th ed. May 2015	Gate, Globe, and Check Valves for Sizes DN 100 (NPS 4) and Smaller	Valve standard Covering design, material, dimensions, ratings, examination and inspection, and test requirements.	Industry	USA	Primarily U.S. and petro-chemical industries	Active	
API603	9th. Ed. September 2018	Corrosion-resistant, Bolted Bonnet Gate Valves	Valve standard Covering design, material, dimensions, ratings, examination and inspection, and test requirements.	Industry	USA	Primarily U.S. and petro-chemical industries	Active	
API608	6th, ed. January 2020	Metal Ball Valves - Flanged, Threaded and Welding Ends	Valve standard Covering design, material, dimensions, ratings, examination and inspection, and test requirements.	Industry	USA	Primarily U.S. and petro-chemical industries	Active	
API609	8 th, ed. Feb.2016	Butterfly Valves: Double-flanged, Lug-and Wafer-type	Valve standard Covering design, material, dimensions, ratings, examination and inspection, and test requirements.	Industry	USA	Primarily U.S. and petro-chemical industries	Active	
API RP621	4rd, ed. January 2018	Reconditioning of Metallic Gate, Globe, and Check Valves	Recommended practice providing guidelines for reconditioning heavy wall carbon steel, ferritic alloy, stainless steel, and nickel alloy gate, globe, and check valves for ASME pressure classes up to 2500. The guidelines apply to flanged and butt weld cast or forged valves.	Industry	USA	Primarily U.S. and petro-chemical industries	\Active	
API623	1st. ed. September 2013	Steel Globe Valves—Flanged and Butt-welding Ends, Bolted Bonnets	Valve standard Covering design, material, dimensions, ratings, examination and inspection, and test requirements.	Industry	USA	Primarily U.S. and petro-chemical industries	2nd. Ed. in revision	Requirement of API-624.
API 641	1st. ed. October 2016	Type Testing of Quarter-turn Valves for Fugitive Emissions	Valve Type Test, VOC Emisssions	Industry	USA	Primarily U.S. and petro-chemical industries		

ISO 15848-1	June 2015	Classification system and qualification procedures for type testing of valves	This standard gives testing procedures that classify the performance of fully assembled valves as dependent on the varying valve designs in sealing fugitive emissions.	International	World wide	World wide	Active	
ISO 15848-2	June 2015	Production acceptance test of valves	The aim of this standard is to establish standard practice for the evaluation of production valves whose design has been successfully type-tested according to ISO 15848-1	International	World wide	World wide	Active	
VDI 2440		Emission Control Mineral Oil Refineries	VDI 2440 is a German guideline created by experts from industry, universities and public bodies for emission control in mineral oil refineries. The sources of gaseous emissions are stated and the relevant best available technologies (BAT) for emission reduction are described. Also specific leakage rates for the emissions from valves and flanges are defined as well as the specific testing methods. These leakage rates have been implemented into the German emission directive “TA-Luft”	National	Germany	Europe	Active	
BAM			German approval for articles to be used in oxygen applications	National	Germany	Germany	Active	
EC 1935/2004	2004	Food safety — safe packaging	Covers materials and articles intended to come into contact with food	National	Europe	Europe	Active	
ACS			French Drinking Water Approval	National	France	France	Active	A E.U. working group is working on alignment of all individual water approvals in the E.U.
WRAS			U.K. Drinking Water Approval	National	U.K.	U.K.	Active	
KTW			German Drinking Water Approval	National	Germany	Germany	Active	A E.U. working group is working on alignment of all individual water approvals in the E.U.
DVGW			German Approval for use of articles in Water and Gas applications	National	Germany	Germany	Active	
KIWA			Netherlands Drinking Water Approval	National	Netherlands	Netherlands	Active	A E.U. working group is working on alignment of all individual water approvals in the E.U.
FDA		Food Safety	Approvals for materials for food use	National	USA	USA and World wide	Active	