
APPENDIX E10

**INTERNATIONAL STANDARDS
AND SPECIFICATIONS**

Soami D. Suri, P.E.
Senior Engineer
Bechtel Power Corporation
Frederick, Maryland

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings

Numbers	Title
BSI BS 21	1985 Amd 1 Pipe Threads for Tubes and Fittings Where Pressure-Tight Joints Are Made on the Threads (Metric Dimensions) AMD 6633; Dec. 21, 1990
BSI BS 61	1969 Amd 1 Threads for Light Gauge Copper Tubes and Fittings
BSI BS 143 & 1256	1986 Amd 2 Malleable Cast Iron and Cast Copper Alloy Threaded Pipe Fittings (AMD 6632) Dec. 21, 1990 (Partially Replaced by BS EN 10242: 1995 but Remains Current)
BSI BS 143 & 1256	1986 Amd 3 Malleable Cast Iron and Cast Copper Alloy Threaded Pipe Fittings (AMD7692) April 15, 1993 (Partially Replaced by BS EN 10242: 1995 but Remains Current)
BSI BS 143 & 1256	1986 Amd 4 Malleable Cast Iron and Cast Copper Alloy Threaded Pipe Fittings (AMD 8467) Sept. 15, 1995 (E) (Partially Replaced by BS EN 10242: 1995 but Remains Current)
BSI BS 806: ENQ CASE 4	1989 Design and Construction of Ferrous Piping Installations for and in Connection with Land Boilers Enquiry Cases: Enquiry Case 4: EFW Alloy Pipe for Wet Steam Application
BSI BS 806: ENQ CASE 6	1991 Design and Construction of Ferrous Piping Installations for and in Connection with Land Boilers Enquiry Cases: Enquiry Case 6: Use of Butt welding Pipe Fittings
BSI BS 806: ENQ CASE 7	1991 Design and Construction of Ferrous Piping Installations for and in Connection with Land Boilers Enquiry Cases: Enquiry Case 7: Testing of Pipe Bends
BSI BS 949: PART 3	1993 Screwing Taps Part 3: Specification for Pipe Thread Taps (E)
BSI BS 949: PART 3	1993 Amd 1 Screwing Taps Part 3: Specification for Pipe Thread Taps AMD 7927; Sept. 15, 1993; (E)
BSI BS 949: PART 3	1982 Screwing Taps: Part 3: Specification for Taps for Pipe Threads (G Series, Rp Series and Rc Series)
BSI BS 1042: SEC 1.2	1989 Methods of Measurement of Fluid Flow in Closed Conduits: Pt 1: Pressure Differential Devices: Section 1.2: Specification for Squared-Edged-Orifice Plates and Nozzles (with Drain Holes, in Pipe Below 50 mm Diameter, as Inlet and Outlet Devices) and other Orifice Plates
BSI BS 1042: SEC 1.6	1993 Measurement of Fluid Flow in Closed Conduits Part 1: Pressure Differential Devices Section 1.6: Method of Measurement of Pulsating Fluid Flow in a Pipe, by Means of Orifice Plates, Nozzles or Venturi Tubes (ISO TR 3313: 1992) (Q)

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI BS 1113: ENQ CASE 5	1988 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) Enquiry Case 5: British Standard Forging and Pipe Materials
BSI BS 1127: PART 2	1990 Screwing Dies and Dies Part 2: Hand-and-Machine-Operated Circular Screwing Dies for Taper Pipe Threads; R Series
BSI BS 1127: PART 3	1990 Screwing Dies and Dies Part 3: Hand-and-Machine-Operated Circular Screwing Dies for Parallel Pipe Threads; G Series
BSI BS 1387	1987 Amd 1 Screwed and Socketed Steel Tubes and Tubulars and for Plain End Steel Tubes Suitable for Welding or for Screwing to BS 21 Pipe Threads (AMD 5830) May 31, 1989
BSI BS 1600	1991 Dimensions of Steel Pipe for Petroleum Industry (Q)
BSI BS 1600	1991 Amd 1 Dimensions of Steel Pipe for the Petroleum Industry (AMD 7204) June 15, 1992 (Q)
BSI BS 1640: PART 1	1962 Amd 3 Steel Butt-Welding Pipe Fittings for the Petroleum Industry Part 1: Wrought Carbon and Ferritic Alloy Steel Fittings
BSI BS 1640: PART 2	1962 Amd 3 Steel Butt-Welding Pipe Fittings for the Petroleum Industry Part 2: Wrought and Cast Austenitic Chromium-Nickel Steel Fittings
BSI BS 1640: PART 3	1968 Amd 1 Steel Butt-Welding Pipe Fittings for the Petroleum Industry Part 3: Wrought Carbon and Ferritic Alloy Steel Fittings
BSI BS 1640: PART 4	1968 Steel Butt-Welding Pipe Fittings for the Petroleum Industry Part 4: Wrought and Cast Austenitic Chromium-Nickel Steel Fittings
BSI BS 1740: PART 1	1971 Amd 3 Wrought Steel Pipe Fittings (Screwed BSP Threads) Part 1: Metric Units (AMD 6240) May 31, 1990
BSI BS 1965: PART 1	1963 Amd 2 Butt-Welding Pipe Fittings for Pressure Purposes Part 1: Carbon Steel
BSI BS 2051: PART 1	(OBSOLESCE) 1973 Amd 2 Tube and Pipe Fittings for Engineering Purposes Part 1: Copper and Copper Alloy Capillary and Compression Tube Fittings for Engineering Purposes
BSI BS 2051: PART 2	(OBSOLESCE) 1984 Tube and Pipe Fittings for Engineering Purposes Part 2: Specification for Olive Type Copper Alloy Compression Tube Fittings
BSI BS 2494	1990 Elastomeric Seals for Joints in Pipework and Pipelines

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI BS 2779	1986 Pipe Threads for Tubes and Fittings Where Pressure-Tight Joints are Not Made on the Threads (Metric Dimensions)
BSI BS 2782: PT11: METH 1103A&B	1995 Plastic Piping and Ducting Systems—Injection-Moulded Thermoplastics Fittings—Test Method for Visually Assessing Effects of Heating (V)
BSI BS 2782: PT11: METH 1103V	1995 Plastic Piping and Ducting Systems—Thermoplastic Pipe and Fittings—Determination of Vicat Softening Temperature (VST) (See BS EN 727) (V)
BSI BS 2782: PT11: METH 1108T	1997 Plastics Piping Systems—Polyethylene (PE) Tapping Tees—Test Method for Impact Resistance of an Assembled Tapping Tee Also Known as BS EN 1716: 1997; (V)
BSI BS 2782: PT11: METH 1112L, M, N, Q	1996 Plastic Piping Systems—Thermoplastics Piping Systems for Buried Non-Pressure Applications—Test Methods for Leaktightness of Elastomeric Sealing Ring Type Joints (V)
BSI BS 2782:PT11: METH 1114F	1995 Plastics Piping and Ducting Systems—Injection-Moulded Thermoplastics Fittings for Pressure Piping Systems—Test Method for Maximum Deformation by Crushing (See BS EN 802) (V)
BSI BS 2782: PT11: METH 1123B	1995 Plastics Piping Systems—Mechanical Joints Between Fittings and Polyolefin Pressure Pipes—Test Method for Leaktightness Under Internal Pressure of Assemblies Subjected to Bending (SEE BS EN 713) (V)
BSI BS 2782: PT11: METH 1123B	1995 Amd 1 Plastics Piping Systems—Mechanical Joints Between Fittings and Polyolefin Pressure Pipes—Test Method for Leaktightness Under Internal Pressure of Assemblies Subjected to Bending (AMD 8876) Oct. 15, 1995 (SEE BS EN 713) (V)
BSI BS 2782: PT11: METH 1123F	1995 Thermoplastics Piping Systems—Non-End-Load-Bearing Elastomeric Sealing Ring Type Joints Between Pressure Pipes and Moulded Fittings—Test Method for Leaktightness Under Internal Hydrostatic Pressure without End Thrust (See BS EN 714) (V)
BSI BS 2782: PT11: METH 1123G	1995 Thermoplastics Piping Systems—End-Load-Bearing Joints Between Small Diameter Pressure Pipes and Fittings—Test Method for Leaktightness Under Internal Water Pressure, Including End Thrust (See BS EN 715) (V)
BSI BS 2782: PT11: METH 1123J	1995 Plastics Piping Systems—Injection-Moulded Thermoplastics Fittings for Elastic Sealing Ring Type Joints for Pressure Piping—Test Methods for Resistance to Short-Term Internal Pressure Without End Thrust (See BS EN 803) (V)

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI BS 2782:PT11: METH 1123K	1995 Plastics Piping Systems—Injection-Moulded Socket Fittings for Solvent-Cemented Joints for Pressure Piping—Test Method for Resistance to a Short-Term Internal Hydrostatic Pressure (See BS EN 804) (V)
BSI BS 2782:PT11: METH 1123W	1996 Plastic Piping Systems-Elastomeric Sealing Ring Type Joints and Mechanical Joints for Thermoplastic Pressure Piping-Test Method for Leaktightness Under External Hydrostatic Pressure (V)
BSI BS 2782:PT12: METH 1123A&B	1997 Plastics Piping Systems—Glass-Reinforced Thermosetting Plastics (GRP) Pipes and Fittings—Test Methods to Prove the Leaktightness of the Wall Under Short-Term Internal Pressure (V)
BSI BS 2782:PT12: METH 1123C	1996 Plastics Piping Systems—Joints for Glass Reinforced Thermosetting Plastics (GRP) Pipes and Fittings—Test Methods for Leaktightness and Resistance to Damage of Flexible and Reduced-Articulation Joints (V)
BSI BS 3506	1969 Amd 2 Unplasticized PVC Pipe for Industrial Purposes
BSI BS 3799	1974 Amd 2 Steel Pipe Fittings, Screwed and Socket-Welding for the Petroleum Industry (AMD 5518) March 31, 1987
BSI BS 3867	(OBSOLESCE) 1987 Method of Specifying Outside Diameters and Pressure Ratings for Pipe of Thermoplastics Materials (Inch Series) Partially Superseded by BS ISO 11922-2: 1997, BS 2782: Part 11: Method 1121 C: and BS ISO 4065: 1996
BSI BS 3908: PART 1	1965 Amd 1 Methods for Sampling and Analysis of Lead and Lead Alloys Part 1: Sampling of Ingot Lead, Lead Alloy Ingots, Sheet Pipe, and Cable Sheathing Alloys
BSI BS 3958: PART 4	1982 Thermal Insulating Materials Part 4: Bonded Preformed Man-Made Fibre Pipe Sections
BSI BS 4346: PART 1	1969 Amd 5 Joints and Fittings for Use With Unplasticized PVC Pressure Pipes Part 1: Injection Moulded Unplasticized PVC Fittings for Solvent Welding for Use with Pressure Pipes, Including Potable Water Supply
BSI BS 4346: PART 2	1970 Amd 3 Joints and Fittings for Use with Unplasticized PVC Pressure Pipes Part 2: Mechanical Joints and Fittings Principally of Unplasticized PVC
BSI BS 4346: PART 3	1982 Amd 1 Joints and Fittings for Use with Unplasticized PVC Pressure Pipes Part 3: Solvent Cements

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI BS 4728	(OBSOLESCE) 1971 Determination of the Resistance to Constant Internal Pressure of Thermoplastics Pipe Replaced by BS EN 921: 1995
BSI BS 4991	1974 Amd 2 Propylene Copolymer Pressure Pipe
BSI BS 5254	1976 Amd 2 Polypropylene Waste Pipe and Fittings (External Diameter 34.6 mm, 41.0 mm and 54.1 mm) (AMD 4438) Dec. 30, 1983
BSI BS 5255	1989 Thermoplastics Waste Pipe and Fittings
BSI BS 5391: PART 1	1976 Acrylonitrile Butadiene-Styrene (ABS) Pressure Pipe Part 1: Pipe for Industrial Uses
BSI BS 5392: PART 1	1976 Acrylonitrile Butadiene-Styrene (ABS) Fittings for use With ABS Pressure Pipe Part 1: Fittings for Use with Pipe for Industrial Uses
BSI BS 5422	1990 Method for Specifying Thermal Insulating Materials on Pipes, Ductwork and Equipment (In Temperature Range 40 Degrees Celsius to +700 Degrees Celcius)
BSI BS 5480	1990 Glass Reinforced Plastics (GRP) Pipes, Joints and Fittings for use for Water Supply or Sewerage
BSI BS 5481	1977 Amd 2 Unplasticized PVC Pipe and Fittings for Gravity Sewers
BSI BS 5500: ENQ CASE 112	1996 Enquiry Case: Case 112: Use of API 5L Pipe Material (Q)
BSI BS 5556	(OBSOLESCE) 1978 General Requirements for Dimensions and Pressure Ratings for Pipe of Thermoplastics Materials (Metric Series) Replaces BS 4159: 1967; Partially superseded by BS ISO 11922-1: 1997, BS 2782: Part 11: Method 1121B and BS ISO 4065
BSI BS 5608	1993 Preformed Rigid Polyurethane (PUR) and Polyisocyanurate (PIR) Foams for Thermal Insulation of Pipework and Equipment (E)
BSI BS 5608	1986 Preformed Rigid Polyurethane (PUR) and Polyisocyanurate (PIR) Foams for Thermal Insulation of Pipework and Equipment
BSI BS 5627	1984 Amd 1 Plastic Connectors for Use With Horizontal Outlet Vitreous China WC Plans
BSI BS 5844	1980 Measurement of Fluid Flow: Estimation of Uncertainty of a Flow rate Measurement
BSI BS 5970	1992 Thermal Insulation of Pipework and Equipment (in the Temperature Range -100 Degrees C to +870 Degrees C)
BSI BS 5970	1981 Amd 1 Thermal Insulation of Pipework and Equipment (in the Temperature Range -100 Degrees C to +870 Degrees C)

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI BS 6209	1982 Solvent Cement for Non-Pressure Thermoplastics Pipe Systems
BSI BS 6281: PART 3	1982 Devices Without Moving Parts for the Prevention of Contamination of Water by Backflow Part 3: Pipe Interrupters of Nominal Size up to and Including DN 42
BSI BS 6362	1990 Stainless Steel Tubes Suitable for Screwing in Accordance with BS 21 Pipe Threads for Tubes and Fittings Where Pressure-Tight Joints are Made on the Threads
BSI BS 7605: PART 2	1992 Agricultural Irrigation Equipment Part 2: Specification for Emitting Pipe Systems (ISO 9261: 1991)
BSI BS 7677	1993 Classification of Imperfections in Pipe Joint Rings (ISO 9691: 1992)
BSI BS 7838	1996 Corrugated Stainless Steel Semi-Rigid Pipe and Associated Fittings for Low Pressure Gas Pipework of up to 28 mm (R)
BSI BS 7892	1997 Bitumen Seal Coatings on Cement Mortar Linings in Ductile Iron Pipes and Fittings (W)
BSI BS 8010: PART 1	1989 Pipelines Part 1: Pipelines on Land: General (Replaces BS CP 2010: Part 1: 1966)
BSI BS EN 253	1995 Preinsulated Bonded Pipe Systems for Underground Hot Water Networks—Pipe Assembly of Steel Service Pipes, Polyurethane Thermal Insulation and Outer Casing of Polyethylene (E)
BSI BS EN 253	1991 Preinsulated Bonded Pipe Systems for Underground Hot Water Networks—Pipe Assembly of Steel Service Pipes, Polyurethane Thermal Insulation and Outer Casing of High Density Polyethylene
BSI BS EN 448	1995 Preinsulated Bonded Pipe Systems for Underground Hot Water Networks—Fitting Assemblies of Steel Service Pipes, Polyurethane Thermal Insulation and Outer Casing of Polyethylene (E)
BSI BS EN 476	1998 General Requirements for Components Used in Discharge Pipes, Drains and Sewers for Gravity Systems (R)
BSI BS EN 489	1995 Preinsulated Bonded Pipe Systems for Underground Hot Water Networks—Joint Assembly for Steel Service Pipes, Polyurethane Thermal Insulation and Outer Casing of Polyethylene (E)
BSI BS EN 681-1	1996 Elastomeric Seals—Material Requirements for Pipe Joint Seals Used in Water and Drainage Applications Part 1: Vulcanized Rubber (E)

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI BS EN 911	1996 Plastic Piping Systems—Elastomeric Sealing Ring Type Joints and Mechanical Joints for Thermoplastics Pressure Piping—Test Method for Leaktightness Under External Hydrostatic Pressure (V)
BSI BS EN 1277	1996 Plastic Piping Systems—Thermoplastics Piping Systems for Buried Non-Pressure Applications—Test Methods for Leaktightness of Elastomeric Sealing Ring Type Joints (V)
BSI BS EN ISO 8497	1997 Thermal Insulation-Determination of Steady-State Thermal Transmission Properties of Thermal Insulation for Circular Pipes (R)
BSI BS EN ISO 11961	1997 Petroleum and Natural Gas Industries—Steel Pipes for Use as Drill Pipe—Specification (Q)
BSI BS 864: PART 2	1983 Amd 2 Capillary and Compression Tube Fittings of Copper and Copper Alloy Part 2: Capillary and Compression Fittings for Copper Tubes (AMD 5651) April 30, 1987
BSI BS 864: PART 2	1983 Amd 3 Capillary and Compression Tube Fittings of Copper and Copper Alloy Part 2: Specification for Capillary and Compression Fittings for Copper Tubes (AMD 7067) Feb. 28, 1992
BSI BS 864: PART 3	(OBSOLESCE) 1975 Capillary and Compression Tube Fittings of Copper and Copper Alloy Part 3: Compression Fittings for Polyethylene Pipes
BSI BS 864: PART 5	1990 Capillary and Compression Tube Fittings of Copper and Copper Alloy Part 5: Compression Fittings for Polyethylene Pipes with Outside Diameters to BS 5556
BSI BS 1113	1992 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) (Q)
BSI BS 1113	1992 Amd 1 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) (AMD 7167) June 15, 1992 (Q)
BSI BS 1113	1992 Amd 2 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) (AMD 8178) June 15, 1994 (Q)
BSI BS 1113	1989 Amd 4 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) (Q) (AMD 6717) May 31, 1991
BSI BS 1113: ENQ CASE INTRO	1994 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) Enquiry Cases-Introduction (Q)

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI BS 1113: ENQ CASE 1	1986 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) Enquiry Case 1: Eddy Current Testing in Lieu of Hydraulic Testing
BSI BS 1113: ENQ CASE 2	1990 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) Enquiry Case 2: Use of ASTM A105, A106, A182, A234, A335, and A312 Materials (Q)
BSI BS 1113: ENQ CASE 3	1987 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) Enquiry Case 3: Local Loads
BSI BS 1113: ENQ CASE 4	1989 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) Enquiry Case 4: Methods for Manual Examination of Fusion Welds in Ferritic Steels
BSI BS 1113: ENQ CASE 6	1990 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) Enquiry Case 6: Use of BS 3604 591 Material
BSI BS 1113: ENQ CASE 7	1992 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) Enquiry Case 7: Use of Butt Welds in Tubes for Manufacture of Coils for Coil Type Boilers/Superheaters (Q)
BSI BS 1113: ENQ CASE 8	1992 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) Enquiry Case 8: Ultrasonic Acceptance Criteria (Q)
BSI BS 1113: ENQ CASE 9	1993 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) Enquiry Case 9: Welding Procedure Specification, Welding Procedure Approval and Welder Approval (Q)
BSI BS 1113: ENQ CASE 10	1995 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) Enquiry Case 10: Use of Steel 91 (Q)
BSI BS 1113: E/C 10: ISSUE 2	1996 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) Enquiry Case 10: Use of Steel 91 Tubing and Piping (Q)
BSI BS 1113: ENQ CASE 12	1996 Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers) Enquiry Case 12: Use of Steel 91 Forgings (Q)

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI BS 1471	1972 Amd 2 Wrought Aluminium and Aluminium Alloys for General Engineering Purposes; Drawn Tube
BSI BS 1471	1972 Amd 3 Wrought Aluminium and Aluminium Alloys for General Engineering Purposes Drawn Tube (AMD 8424) Feb. 15, 1995 (V)
BSI BS 3074	1989 Nickel and Nickel Alloys: Seamless Tube
BSI BS 4300/1	1967 Amd 1 Specification (Supplementary Series) for Wrought Aluminium and Aluminium Alloys Longitudinally Welded Tube Metric Units (AMD 3381) June 30, 1980
BSI BS 4300/10	1969 Amd 1 Specification (Supplementary Series) for Wrought Aluminium and Aluminium Alloys for General Engineering Purposes/10: 5454 Drawn Tube
BSI BS 4300/12	1969 Amd 1 Specification (Supplementary Series) for Wrought Aluminium and Aluminium Alloys for General Engineering Purposes/12 5454 Bar, Extruded Round Tube and Sections
BSI BS 4300/15	1973 Amd 1 Specification (Supplementary Series) for Wrought Aluminium and Aluminium Alloys for General Engineering Purposes/15: 7020 Bar, Extruded Round Tube and Sections
BSI BS 4870: PART 3	1985 Amd 1 Approved Testing of Welding Procedures Part 3: Arc Welding of Tube to Tube-Plate Joints in Metallic Materials (AMD 6292) Feb. 28, 1990
BSI BS 4871: PART 3	1985 Approval Testing of Welders Working to Approved Welding Procedures Part 3: Arc Welding of Tube to Tube-Plate Joints in Metallic Materials
BSI BS 2070: PART 4	1991 Aluminium and Aluminium Alloy Wrought Products Technical Specification Part 4: Tube for Structures
BSI BS 2070: PART 5	1991 Aluminium and Aluminium Alloy Wrought Products Technical Specification Part 5: Tube Used Under Pressure
BSI BS EN 10232	1994 Metallic Materials—Tube (In Full Section)—Bend Test (V)
BSI BS EN 10233	1994 Metallic Materials—Tube-Flattening Test (V)
BSI BS EN 10234	1994 Metallic Materials—Tube-Drift Expanding Test (V)
BSI BS EN 10235	1994 Metallic Materials—Tube-Flanging Test
BSI BS 10236	1994 Metallic Materials—Tube-Ring Expanding Test (V)
BSI BS 10237	1994 Metallic Materials—Tube-Ring Tensile Test (V)
BSI BS EN ISO 9455-12	1994 Soft Soldering Fluxes—Test Methods Part 12: Steel Tube Corrosion Test (F)

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI BS EN ISO 12185	1996 Methods of Test for Petroleum and Its Products Part 365: Crude Petroleum and Petroleum Products—Determination of Density—Oscillating U-Tube Method (ISO 12185: 1996) (W)
BSI BS ISO 8434-1	Metallic Tube Connections for Fluid Power and General Use—Part 1: 24 Degrees Compression Fittings (E)
BSI BS ISO 8434-2	1994 Metallic Tube Connections for Fluid Power and General Use—Part 2: 37 Degrees Flared Fitting (E)
BSI BS ISO 8434-3	1995 Metallic Tube Connections for Fluid Power and General Use—Part 3: O-Ring Face Seal Fittings (E)
BSI BS ISO 8434-4	1995 Metallic Tube Connections for Fluid Power and General Use—Part 4: 24 Degree Cone Connector with O-Ring Weld-On Nipples (E)
BSI B 27	1991 Copper-Zinc-Aluminium-Nickel-Silicon Alloy Tube
BSI 4L 54	1986 Amd 1 Tube of 99% Aluminium (Cold Drawn: Seamless: Tested Hydraulically) (Not exceeding 12 mm Wall Thickness) (AMD 5994) Aug. 31, 1988 (Replaces BS 3L 54: 1971)
BSI 4L 56	1986 Amd 1 Tube of Aluminium-2¼% Magnesium Alloy (Temper Designation-0) (Seamless: Tested Hydraulically) (Not Exceeding 12 mm Wall Thickness) (AMD 5993) Aug. 31, 1988 (Replaces BS 3L 56: 1971)
BSI 3L 63	1971 Tube of Aluminium-Copper-Magnesium-Silicon-Manganese Alloy (Solution Treated and Precipitation Treated) (Cu 4.4, Mg 0.5, Si 0.7, Mn 0.8)
BSI L 105	1971 Tube of Aluminium-Copper-Magnesium-Silicon-Manganese Alloy (Solution Treated and Aged at Room Temperature) (Not Exceeding 10 mm Wall Thickness) (Cu 4.4, Mg 0.5, Si 0.7, Mn 0.8) (Replaces BS 2L 62: 1961)
BSI L 114	1971 Tube of Aluminium-Magnesium-Silicon-Manganese Alloy (Solution Treated and Precipitation Treated)
BSI 2L 116	(OBSOLESCE) 1985 Tube of 99% Aluminium (Cold Drawn: Seamless: Not Tested Hydraulically) (Not Exceeding 12 mm Wall Thickness) Replaces BS L 116: 1973)
BSI L 117	1975 Amd 1 Tube of Aluminium-Magnesium-Silicon-Copper-Chromium Alloy (Solution Treated and Artificially Aged: Not Tested Hydraulically) (Not Exceeding 10 mm Thickness) (Mg 1.0, Si 0.6, Cu 0.28, Cr 0.2)

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI L 118	1975 Amd 2 Tube of Aluminium-Magnesium-Silicon-Copper-Chromium Alloy (Solution Treated and Artificially Aged: Tested Hydraulically) (Not Exceeding 10 mm Thickness) (Mg 1.0, Si 0.6, Cu 0.28, Cr 0.2)
BSI 2L 503	(OBSOLESCE) 1973 Tube of Magnesium-6 Per Cent Aluminium-Zinc Alloy
BSI 2L 509	(OBSOLESCE) 1973 Tube of Magnesium-1¼% Zinc-Zirconium Alloy (Suitable for Welding by Inert-Gas Shielded Arc Techniques) (Zn 1.25, Zr 0.6) (S)
BSI 5T 2	(OBSOLESCE) 1972 4/1 Nickel-Chromium Steel Tube (1300 N/Square mm) Replaces BS 4T 2: 1948
BSI 4T 45	(OBSOLESCE) 1972 Carbon-Manganese Steel Tube (700 N/Square mm) (Tube 12.5 mm Outside Diameter and Greater) (Weldable) (Replaces BS 3T 45: 1948)
BSI 3T 53	1980 Chromium-Molybdenum Steel Tube (700 Mpa) (Tube 12.5 mm Outside Diameter and Greater) (Weldable) (Replaces BS 2T 53: 1972)
BSI 2T 57	(OBSOLESCE) 1972 4/1 Nickel-Chromium Steel Tube (1150 N/Square MM) (Replaces BS T 57: 1948)
BSI 3T 60	1980 Chromium-Molybdenum Steel Tube (1150 MPa) (Maximum Wall Thickness 8 mm) (Replaces BS 2T 60: 1972)
BSI T 64	(OBSOLESCE) 1972 Carbon-Manganese Steel Tube (550 N/Square mm) (Tube Less than 12.5 mm Outside Diameter) (Weldable) (Replaces BS 3T 35: 1948)
BSI 2T 66	1980 18/10 Chromium-Nickel Corrosion-Resisting Steel Tube (Niobium Stabilized: 550 MPa) (Weldable)
BSI 2T 66	1980 Amd 1 18/10 Chromium-Nickel Corrosion-Resisting Steel Tube (Niobium Stabilized: 550 Mpa) (Weldable) (AMD 6853) Nov. 29, 1991 (Replaces BS T 66: 1972)
BSI T 67	(OBSOLESCE) 1972 18/10 Chromium-Nickel Corrosion-Resisting Steel Tube (Titanium mm) (Weldable) (Replaces BS T 55: 1948)
BSI 2T 68	1980 Cold Drawn 18/10 Chromium-Nickel Corrosion-Resisting Steel Tube (Niobium Stabilized: 800 N/Square mm) (Weldable) (Replaces BS T 68: 1972)
BSI T 69	(OBSOLESCE) 1972 Cold Drawn 18/10 Chromium-Nickel Corrosion-Resisting Steel Tube (Titanium Stabilized: 800 N/Square MM) (Weldable) (Replaces BS T 58: 1948)

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI T 72-73	1977 18/10 Chromium-Nickel Corrosion Resisting Steel Tube for Hydraulic Purposes (Niobium/Titanium Stabilized: 550 MPa)
BSI T 72-73	1977 Amd 1 18/10 Chromium-Nickel Corrosion Resisting Steel Tube for Hydraulic Purposes (Niobium/Titanium Stabilized: 550 MPa) (AMD 6852) Dec. 24, 1991
BSI T 74	(OBSOLESCE) 1972 Low Carbon 18/10 Chromium-Nickel Corrosion-Resisting Steel Tube (500 N/Square mm)
BSI T 75	(OBSOLESCE) 1972 Low Carbon 17/12 Chromium-Nickel-Molybdenum Corrosion-Resisting Steel Tube (500 N/Square MM)
BSI T 76	1978 Amd 1 Chromium-Molybdenum Steel Tube (770 MPa) (Weldable)
BSI T 77	1980 Chromium-Molybdenum Steel Tube (900 MPa) (Weldable) Replaces BS T 65: 1972)
BSI BS 65	1991 Vitrified Clay Pipes, Fittings and Ducts, Also Flexible Mechanical Joints for Use Solely with Surface Water Pipes and Fittings
BSI BS 65	1991 Amd 1 Vitrified Clay Pipes, Fittings and Ducts, Also Flexible Mechanical Joints for Use Solely with Surface Water Pipes and Fittings (AMD 8622) May 15, 1995 (R)
BSI BS 78: PART 2	(OBSOLESCE) 1965 Amd 1 Cast Iron Spigot and Socket Pipes (Vertically Cast) and Spigot and Socket Fittings Part 2: Fittings (Partially Superseded by BS 4772)
BSI BS 416: PART 1	1990 Discharge and Ventilating Pipes and Fittings, Sand-Cast or Spun in Cast Iron Part 1: Specification for Spigot and Socket Systems
BSI BS 416: PART 2	1990 Discharge and Ventilating Pipes and Fittings, Sand-Cast or Spun in Cast Iron Part 2: Specification for Socketless Systems
BSI BS 437	1978 Amd 1 Cast Iron Spigot and Socket Drain Pipes and Fittings (Replaces BS 1130: 1943)
BSI BS 567	1973 Amd 1 Asbestos-Cement Flue Pipes and Fittings, Light Quality (AMD 5963) April 28, 1989
BSI BS 835	1973 Amd 1 Asbestos-Cement Flue Pipes and Fittings, Heavy Quality
BSI BS 2598: PART 3	1980 Glass Plant, Pipeline and Fittings Part 3: Pipeline and Fittings of Nominal Bore 15 to 150 mm: Compatibility and Interchangeability
BSI BS 2598: PART 4	1980 Glass Plant, Pipeline and Fittings Part 4: Glass Plant Components

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI BS 2760	1973 Amd 1 Pitch-Impregnated Fibre Pipes and Fittings for Below and Above Ground Drainage (AMD 2675) June 30, 1978 (R)
BSI BS 2782: PT 11: METH 1103D	1997 Plastics Piping and Ducting Systems—Polyolefin Pipes and Fittings—Determination of Oxidation Induction Time Also Numbered as BS EN 728: 1997; (V)
BSI BS 2782: PT 11: METH 1104A	1994 Plastics Piping Systems—Plastic Pipes and Fittings—Determination of Opacity (V)
BSI BS 2782: PT 11: METH 1107A	1996 Plastics Piping and Ducting Systems—Plastic Pipes and Fittings—Method of Exposure to Direct (Natural) Weathering (V)
BSI BS 2782: PT 11: METH 1121A	1996 Thermoplastics Materials for Pipes and Fittings for Pressure Applications—Classification and Designation—Overall Service (Design) Coefficient (See BS EN ISO 12162) (V)
BSI BS 2782: PT 11: METH 1123H	1995 Thermoplastics Piping Systems—End-Load Bearing Mechanical Joints Between Pressure Pipes and Fittings—Test Method for Resistance to Pull Out Under Constant Longitudinal Force (See BS EN 712) (V)
BSI BS 2782: PT 11: METH 1140A	1995 Plastics Piping and Ducting Systems—Pipes and Fittings of Unplasticized Poly(Vinyl Chloride) (PVC_U)—Specimen Preparation for Determination of the Viscosity Number and Calculation of the K-Value (See BS EN 922) (V)
BSI BS 2782: PT 12: METH 1209A&B	1996 Plastics Piping Systems—Glass-Reinforced Thermosetting Plastics (GRP) Pipes and Fittings—Determination of the Resistance to Chemical Attack from the Inside of a Section in a Deflated Condition (V)
BSI BS 2782: PT 12: METH 1220A to C	1995 Plastics Piping Systems—Glass-Reinforced Thermosetting Plastics (GRP) Pipes and Fittings—Methods of Regression Analyses and Their Use (E) Supplement 1: Guide to Functional Performance Values; IEC 977: 1989
BSI BS 4514	1983 Amd 1 Unplasticized PVC Soil and Ventilating Pipes, Fittings and Accessories
BSI BS 4622	(OBSOLESCE) 1970 Amd 3 Grey Iron Pipes and Fittings (Replaces BS 78: Part 1 1961)
BSI BS 4625	1970 Amd 2 Prestressed Concrete Pressure Pipes (Including Fittings)
BSI BS 4660	1989 Unplasticized Polyvinyl Chloride (PVC-V) Pipes and Plastics Fittings of Nominal Sizes 110 to 160 for Below Ground Gravity Drainage and Sewerage

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI BS 4660	1989 Amd 1 Unplasticized Polyvinyl Chloride (PVC-V) Pipes and Plastic Fittings of Nominal Sizes 110 to 160 for Below Ground Gravity Drainage and Sewerage AMD 9132 July 15, 1996 (R)
BSI BS 4825: PART 1	1991 Stainless Steel Tubes and Fittings for the Food Industry and Other Hygienic Application Part 1: Specification for Tubes (Q)
BSI BS 4825: PART 1	1972 Amd 1 Stainless Steel Pipes and Fittings for the Food Industry Part 1: Pipes
BSI BS 4825: PART 2	1991 Stainless Steel Tubes and Fittings for the Food Industry and Other Hygienic Application Part 2: Specification for Bends and Tees (Q)
BSI BS 4825: PART 2	1973 Stainless Steel Pipes and Fittings for the Food Industry Part 2: Bends and Tees
BSI BS 4825: PART 3	1991 Stainless Steel Tubes and Fittings for the Food Industry and Other Hygienic Application Part 3: Specification for Clamp Type Couplings (Q)
BSI BS 4825: PART 3	1976 Stainless Steel Pipes and Fittings for the Food Industry Part 3: Clamp Type Couplings
BSI BS 4825: PART 4	1991 Stainless Steel Tubes and Fittings for the Food Industry and Other Hygienic Application Part 4: Specification for Threaded (IDF Type) Couplings (Q)
BSI BS 4825: PART 4	1977 Stainless Steel Pipes and Fittings for Food Industry Part 4: Screwed Type Couplings
BSI BS 4825: PART 5	1991 Stainless Steel Tubes and Fittings for the Food Industry and Other Hygienic Application Part 5: Specification for Recessed Ring Joint Type Couplings (Replaces BS 1864: 1966)
BSI BS 4962	1989 Plastic Pipe and Fittings for Use as Subsoil Field Drains
BSI BS 4962	1989 Amd 1 Plastic Pipes and Fittings for Use as Subsoil Field Drains (AMD 9131) July 15, 1996 (R)
BSI BS 5114	1975 Amd 2 Performance Requirements for Joints and Fittings for Use With Polyethylene Pipes (AMD 5336) July 31, 1987
BSI BS 5911: PART 2	1982 Amd 1 Precast Concrete Pipes and Fittings for Drainage and Sewerage Part 2: Inspection Chambers and Street Gullies
BSI BS 5911: PART 100	1988 Amd 1 Precast Concrete Pipes and Fittings for Drainage and Sewerage Part 100: Unreinforced and Reinforced Pipes and Fittings with Flexible Joints (AMD 6269) Dec. 22, 1989 (Supersedes BS 5911: Part 1 1981)

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI BS 5911: PART 100	1988 Amd 2 Precast Concrete Pipes, Fittings and Ancillary Products Part 100: Specification for Unreinforced and Reinforced Pipes and Fittings with Flexible Joints (AMD 7588) April 15, 1993 (R)
BSI BS 5911: PART 101	1988 Precast Concrete Pipes and Fittings for Drainage and Sewerage Part 101: Glass Composite Concrete (GCC) Pipes and Fittings with Flexible Joints (Replaces DD 76: Part 1: 1981)
BSI BS 5911: PART 103	1994 Precast Concrete Pipes and Ancillary Concrete Products Part 103: Specification for Prestressed Non-Pressure Pipes and Fittings with Flexible Joints (Replaces BS 5178: 1975) (R)
BSI BS 5911: PART 110	1992 Precast Concrete Pipes, Fittings and Ancillary Products Part 110: Specification for Ogee Pipes and Fittings (Including Perforated)
BSI BS 5911: PART 110	1992 Amd 1 Precast Concrete Pipes, and Ancillary Concrete Products Part 110: Specification for Ogee Pipes and Fittings (Including Perforated) (AMD 8155) March 15, 1994 (R)
BSI BS 5911: PART 114	1992 Precast Concrete Pipes, Fittings and Ancillary Products Part 114: Specification for Porous Pipes (Supersedes BS 1194: 1969)
BSI BS 5911: PART 120	1989 Precast Concrete Pipes and Fittings for Drainage and Sewerage Part 120: Reinforced Jacking Pipes with Flexible Joints
BSI BS 5911: PART 120	1989 Amd 1 Precast Concrete Pipes, Fittings and Ancillary Products Part 120: Specification for Reinforced Jacking Pipes with Flexible Joints (AMD 9020) March 15, 1996 (R)
BSI BS 5911: PART 200	1989 Precast Concrete Pipes and Fittings for Drainage and Sewerage Part 200: Unreinforced and Reinforced Manholes and Soakaways of Circular Cross Section
BSI BS 5955: Part 8	1990 Code of Practice for Plastics Pipework (Thermoplastics Materials) Part 8: Installation of Thermoplastics Pipes and Associated Fittings for Use in Domestic Hot and Cold Water Services and Heating Systems
BSI BS 6076	1996 Polymeric Film for Use as a Protective Sleeving for Buried Iron Pipes and Fittings (For Site and Factory Application) (E)
BSI BS 6076	1981 Tubular Polyethylene Film for use as Protective Sleeving for Buried Iron Pipes and Fittings
BSI BS 6087	1990 Amd 1 Flexible Joints for Grey or Ductile Cast Iron Drain Pipes and Fittings (BS 437) and for Discharge and Ventilating Pipes and Fittings (BS 416) (AMD 6357) June 28, 1991 (R)

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI BS 6464	1984 Amd 1 Reinforced Plastics Pipes, Fittings and Joints for Process Plants
BSI BS 7291: PART 1	1990 Thermoplastics Pipes and Associated Fittings for Hot and Cold Water for Domestic Purposes and Heating Installations in Buildings Part 1: General Requirements
BSI BS 7291: PART 2	1990 Thermoplastics Pipes and Associated Fittings for Hot and Cold Water for Domestic Purposes and Heating Installations in Buildings Part 2: Polybutylene (PB) Pipes and Associated Fittings
BSI BS 7291: PART 2	1990 Amd 1 Thermoplastics Pipes and Associated Fittings for Hot and Cold Water for Domestic Purposes and Heating Installations in Buildings Part 2: Specification for Polybutylene (PB) Pipes and Associated Fittings AMD 9443; April 15, 1997; (R)
BSI BS 7291: PART 3	1990 Thermoplastics Pipes and Associated Fittings for Hot and Cold Water for Domestic Purposes and Heating Installations in Buildings Part 3: Crosslinked Polyethylene (PE-X) Pipes and Associated Fittings (Read in Conjunction with BS 7291: Part 1)
BSI BS 7291: PART 4	1990 Amd 1 Thermoplastics Pipes and Associated Fittings for Hot and Cold Water for Domestic Purposes and Heating Installations in Buildings Part 4: Specification for Chlorinated Polyvinyl Chloride (PVC-C) Pipes and Associated Fittings and Solvent Cement (AMD 6399) July 31, 1991
BSI BS 7336	1990 Polyethylene Fusion Fittings with Integral Heating Elements for Use With Polyethylene Pipes for the Conveyance of Gaseous Fuels
BSI BS 7431	1991 Assessing Solar Water Heaters-Elastomeric Materials for Absorbers, Connecting Pipes and Fittings (ISO 9808: 1990)
BSI BS 7435 PART 1	1991 Fibre Cement Flue Pipes, Fittings and Terminals Part 1: Specification for Light Quality Fibre Cement Flue Pipes, Fittings and Terminals
BSI BS 7435 PART 2	1991 Fibre Cement Flue Pipes, Fittings and Terminals Part 2: Specification for Heavy Quality Fibre Cement Flue Pipes, Fittings and Terminals
BSI BS EN 295: PART 1	1991 Vitrified Clay Pipes and Fittings and Pipe Joints for Drains and Sewers Part 1: Requirements (Replaces BS 65: 1988)
BSI BS EN 295: PART 1	1991 Amd 1 Vitrified Clay Pipes and Fittings and Pipe Joints for Drains and Sewers Part 1: Requirements AMD 9290; Dec. 15, 1996 (R)
BSI BS EN 295-1	1991 Amd 2 Vitrified Clay Pipes and Fittings and Pipe Joints for Drains and Sewers Part 1: Requirements AMD 9429; May 1997; (R)

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI BS EN 295: PART 2	1991 Vitrified Clay Pipes and Fittings and Pipe Joints for Drains and Sewers: Part 2: Quality Control and Sampling (Replaces BS 65: 1988)
BSI BS EN 295: PART 3	1991 Vitrified Clay Pipes and Fittings and Pipe Joints for Drains and Sewers: Part 3: Test Methods (Replaces BS 65: 1988)
BSI BS EN 295-4	1995 Vitrified Clay Pipes and Fittings and Pipe Joints for Drains and Sewers: Part 4: Requirements for Special Fittings, Adaptors and Compatible Accessories (R)
BSI BS EN 295: PART 5	1994 Vitrified Clay Pipes and Fittings and Pipe Joints for Drains and Sewers: Part 5: Requirements for Perforated Vitrified Clay Pipes and Fittings (R)
BSI BS EN 295-6	1996 Vitrified Clay Pipes and Fittings and Pipe Joints for Drains and Sewers: Part 6: Requirements for Vitrified Clay Manholes (R)
BSI BS EN 295-7	1996 Vitrified Clay Pipes and Fittings and Pipe Joints for Drains and Sewers: Part 7: Requirements for Vitrified Clay Pipes and Joints for Pipe Jacking (R)
BSI BS EN 476	1998 General Requirements for Components Used in Discharge Pipes, Drains and Sewers for Gravity Systems (R)
BSI BS EN 545	1995 Ductile Iron Pipes, Fittings, Accessories and Their Joints for Water Pipelines—Requirements and Test Methods (Partially Replaces BS 4772: 1988) (E)
BSI BS EN 588-1	1997 Fibre-Cement Pipes for Sewer and Drains Part 1: Pipes, Joints and Fittings for Gravity Systems Supersedes BS 3656: 1990; (P)
BSI BS EN 598	1995 Ductile Iron Pipes, Fittings, Accessories and Their Joints for Sewerage Applications—Requirements and Test Methods (Replaces BS 4772: 1988) (E)
BSI BS EN 639	1995 Common Requirements for Concrete Pressure Pipes Including Joints and Fittings (Read in Conjunction With BS 4625) (E)
BSI BS EN 640	1995 Reinforced Concrete Pressure Pipes and Distributed Reinforced Concrete Pressure Pipes (Non-Cylinder Type), Including Joints and Fittings (E)
BSI BS EN 641	1995 Reinforced Concrete Pressure Pipes, Cylinder Type, Including Joints and Fittings (Read in Conjunction with BS 639) (E)
BSI BS EN 642	1995 Prestressed Concrete Pressure Pipes, Cylinder and Non-Cylinder, Including Joints, Fittings and Specific Requirements for Prestressing Steel for Pipes (Read in Conjunction with BS 4625: 1970) (R)

TABLE E10.B1 British Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
BSI BS EN 723	1996 Copper and Copper Alloys—Combustion Method for Determination of Carbon on the Inner Surface of Copper Tubes or Fittings (V)
BSI BS EN 922	1995 Plastics Piping and Ducting Systems—Pipes and Fittings of Unplasticized Poly (Vinyl Chloride) (PVC-U)—Specimen Preparation for Determination of the Viscosity Number and Calculation of the K-Value (V)
BSI BS EN 969	1996 Ductile Iron Pipes, Fittings, Accessories and Their Joints for Gas Pipelines—Requirements and Test Methods (Replaces BS 4772: 1988) (E)
BSI BS EN 1056	1996 Plastic Piping and Ducting Systems—Plastic Pipes and Fittings—Method for Exposure to Direct (Natural) Weathering (V)
BSI BS EN 1119	1996 Plastics Piping Systems—Joints for Glass-Reinforced Thermosetting Plastics (GRP) Pipes and Fittings—Test Methods for Leaktightness and Resistance to Damage of Flexible and Reduced-Articulation Joints (V)
BSI BS EN 1120	1996 Plastics Piping Systems—Glass-Reinforced Thermosetting Plastics (GRP) Pipes and Fittings—Determination of the Resistance to Chemical Attack from the Inside of a Section in a Deflected Condition (V)
BSI BS EN 1229	1997 Plastics Piping Systems—Glass-Reinforced Thermosetting Plastics (GRP) Pipes and Fittings—Test Methods to Prove the Leaktightness of the Wall Under Short-Term Internal Pressure (V)
BSI BS EN 10242	1995 Threaded Pipe Fittings in Malleable Cast Iron (Partially Replaces BS 143 & 1256: 1986) (E)
BSI BS ISO 10931-3	1996 Plastic Piping Systems for Industrial Applications—Poly (Vinylidene Fluoride) Part 3: Fittings (V)

TABLE E10.B2 British Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets

Numbers	Title
BSI BS 10	(OBSOLESCE) 1962 Amd 4 Flanges and Bolting Pipes, Valves and Fittings
BSI BS 848 PART 4	1997 Fans for General Purposes Part 4: Dimensions ISO 13351: 1996 (Q)
BSI BS 1560 SEC 3.1	1989 Steel Pipe Flanges and Flanged Fittings (Nominal Sizes Half an Inch to 24 Inch) for The Petroleum Industry Part 3: Steel, Cast Iron and Copper Alloy Flanges Section 3.1: Steel Flanges
BSI BS 1560 SEC 3.1	1989 Amd 1 Circular Flanges for Pipes, Valves and Fittings (Class Designated) Part 3: Steel, Cast Iron and Copper Alloy Flanges Section 3.1: Specification for Steel Flanges (AMD 7557) June 15, 1993 (Q)
BSI BS 1560 SEC 3.1	1989 Amd 2 Circular Flanges for Pipes, Valves and Fittings (Class Designated) Part 3: Steel, Cast Iron and Copper Alloy Flanges Section 3.1: Specification for Steel Flanges (AMD 8593) July 15, 1995 (Q)
BSI BS 1560 SEC 3.2	1989 Steel Pipe Flanges and Flanged Fittings (Nominal Sizes Half an Inch to 24 Inch) for the Petroleum Industry Part 3: Steel, Cast Iron and Copper Alloy Flanges Section 3.2: Cast Iron Flanges
BSI BS 1560 SEC 3.3	1989 Steel Pipe Flanges and Flanged Fittings (Nominal Sizes Half an Inch to 24 Inch) for the Petroleum Industry Part 3: Steel Cast Iron and Copper Alloy Flanges Section 3.3: Copper Alloy and Composite Flanges
BSI BS 2782 PT 12: METH1224F	1997 Plastics Piping System—Glass—Reinforced Thermosetting Plastics (GRP) Components—Test Methods to Prove the Design of the Bolted Flange Joints Also Known as BS EN 1450: 1997: (V)
BSI BS 3293	1960 Amd 1 Carbon Steel Pipe Flanges (OVER 24 in Nominal Size) for the Petroleum Industry
BSI BS 4504 SEC 3.1	1989 Amd 2 Circular Flanges for Pipes, Valves and Fittings (PN Designated) Part 3: Steel Cast Iron and Copper Alloy Flanges Section 3.1 Steel Flanges (AMD 6334) Jan. 31, 1991
BSI BS 4504 SEC 3.1	1989 Amd 3 Circular Flanges for Pipes, Valves and Fittings (PN Designated) Part 3: Steel, Cast Iron and Copper Alloy Flanges Section 3.1 Steel Flanges (AMD 7555) June 15, 1993 (Supersedes BS 4504 Part 1 1969)
BSI BS 4504 SEC 3.3	1989 Amd 1 Circular Flanges for Pipes, Valves and Fittings, (PN Designated Part 3: Steel, Cast Iron and Copper Alloy Flanges) Section 3.3 Specification for Copper Alloy and Composite Flanges (AMD 6274) Nov. 30, 1989
BSI BS 4581	1970 Amd 4 Dimensions for Flanges for the Mounting of Plain Grinding Wheels Renumbered as BS 4581: Part 1: 1970 Per AMD 4393; March 30, 1984

TABLE E10.B2 British Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets
(Continued)

Numbers	Title
BSI BS 4581 PART 2	1984 Flanges for Mounting Grinding Wheels on Grinding Machine Tools Part 2: Specification for Dimensions and Materials of Flanges for Grinding Wheels of Less Than 76.2 mm Bore
BSI BS 4882	1990 Bolting for Flanges and Pressure Containing Purposes (Q)
BSI BS 5500 ENQ CASE 17	1979 Enquiry Cases Case 17: Split Ring Flanges
BSI BS 5500 ENQ CASE 36	1995 Enquiry Cases Case 36: Loose Flanges Split Across a Diameter and Keyed into the Back of a Component (Q)
BSI BS 5500 ENQ CASE 36	1993 Enquiry Case Case 36: Loose Flanges Split Across a Diameter and Keyed into the Back of a Component (Q)
BSI BS 5500 ENQ CASE 36	1981 Enquiry Case Case 36: Loose Flanges Split Across a Diameter and Keyed into the Back of a Component
BSI BS 5500 ENQ CASE 58	1995 Enquiry Case Case 58: Bolted Flanges Complying with ANSI B 16.5 Issue 2: (Q)
BSI BS 5500 ENQ CASE 58	1984 Enquiry Case Case 58: Bolted Flanges Complying with ANSI B 16.5
BSI BS 5500 ENQ CASE 100	1993 Enquiry Case Case 100: Domed and Bolted Ends with Full Face Flange
BSI BS 5500 ENQ CASE 117	1996 Enquiry Case Case 117: Flanges Fitted with Swing Bolts and Clamps (Q)
BSI BS 5587	1978 Amd 1 Coated Abrasives Flap Wheels with Incorporated Flanges or Separate Flanges. Designation and Dimensions
BSI BS 5840 PART 1	1980 Valve Mating Details for Actuator Operation Part 1: Flange Dimensions and Characteristics
BSI BS 6276	1987 Dimensions and Identification Code for Mounting Flanges and Shaft Ends for Hydraulic Fluid Power Pumps and Motors
BSI BS 6339	1983 Dimensions for Circular Flanges for General Purpose Industrial Fans
BSI BS AU 211	1987 Dimensions of Four-Hole Flanges for Gear-Driven Air Compressors for Commercial Vehicles and Buses
BSI BS AU 214A PART 1	1987 Amd 1 Gearbox Flanges Part 1: Dimensions of Cross-Tooth Gearbox Flanges, Type T, for Commercial Vehicles and Buses (Formerly BS AU 214: 1987)
BSI BS AU 214 PART 2	1988 Gearbox Flanges Part 2: Dimensions for Type A Gearbox Flanges for Commercial Vehicles and Buses
BSI BS AU 214 PART 3	1988 Gearbox Flanges Part 3: Dimensions for Type S Gearbox Flanges for Commercial Vehicles and Buses

TABLE E10.B2 British Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets
(Continued)

Numbers	Title
BSI BS AU 259	1995 Components for Commercial Vehicles and Buses—Cross-Tooth Propeller Shaft Flanges, Type T (ISO 12667: 1993) (E)
BSI BS MA 9	(OBSOLESCE) 1970 Amd 3 Flanges, Bolting and Gaskets for Exhaust Gas Piping for Diesel Engines and Boiler Uptakes
BSI BS EN 1092-2	1997 Flanges and Their Joints—Circular Flanges for Pipes, Valves, Fittings and Accessories, PN Designated Part 2: Cast Iron Flanges Supersedes BS 4504: Section 3.2: 1989; (Q)
BSI BS EN 1450	1997 Plastics Piping Systems—Glass-Reinforced Thermosetting Plastics (GRP) Components—Test Methods to Prove the Design of Bolted Flanged Joints Also Known as BS 2782: Part 12: Method 1224 F: 1997; (V)
BSI BS EN 3149	1997 Shank Nuts-Installation Holes, 60 Degree Swage, Flanges-Design Standard (S)
BSI BS EN 60154-1	1996 Flanges for Waveguides Part 1: General Requirements (IEC 154-1: 1982) (S)
BSI BS EN 60154-2	1997 Flanges for Waveguides Part 2: Relevant Specifications for Flanges for Ordinary Rectangular Waveguides Renumbers BS 6569: Part 2: 1985; (S)
BSI BS EN 60264-5-1	1997 Packaging of Winding Wire 5.1: Cylindrical Barrelled Delivery Spools with Conical Flanges—Basic Dimensions IEC 60264-5-1: 1997; (E)
BSI BS EN ISO 5210	1996 Industrial Valves—Multi-Turn Valve Actuator Attachments Supersedes Section 3 of BS 5840: Part 1: 1980 and Section 3 of BS 5840: Part 2: 1982 (E)
BSI BS ISO 666	1996 Machine Tools—Mounting of Plain Grinding Wheels by Means of Hub Flanges Supersedes BS 4581: Part 1: 1970; (F)
BSI BS ISO 7299	1996 Diesel Engines—End-Mounting Flanges for Fuel Injection Pumps (E)
BSI BS ISO 12129-2	1995 Plain Bearings—Part 2: Tolerances on Form and Position and Surface Roughness for Shafts, Flanges and Thrust Collars (E)
BSI PD 6438	1969 Review of Present Methods for Design of Bolted Flanges for Pressure Vessels
BSI BS 57	(OBSOLESCE) 1951 Amd 3 B.A. Screws, Bolts and Nuts
BSI BS 64	1992 Normal and High Strength Steel Bolts and Nuts for Railway Rail Fishplates (Q)
BSI BS 64	1992 Amd 1 Normal and High Strength Steel Bolts and Nuts for Railway Rail Fish Plates (AMD 8210) July 15, 1994 (Q)

TABLE E10.B2 British Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets
(Continued)

Numbers	Title
BSI BS 325	(OBSOLESCE) 1947 Amd 3 Black Cup and Countersunk Bolts and Nuts
BSI BS 916	(OBSOLESCE) 1953 AMD 4 Black Bolts, Screws and Nuts
BSI BS 1083	(OBSOLESCE) 1965 Amd 2 Precision Hexagon Bolts, Screws and Nuts (B.S.W. and B.S.F. Threads)
BSI BS 1768	(OBSOLESCE) 1963 Amd 3 Unified Precision Hexagon Bolts, Screws and Nuts (UNC and UNF Threads) Normal Series
BSI BS 1769	(OBSOLESCE) 1951 Amd 7 Unified Precision Hexagon Bolts, Screws and Nuts (UNC and UNF Threads) Heavy Series
BSI BS 2485	1987 Tee Slots, Tee Bolts, Tee Nuts and Tenons
BSI BS 3692	(OBSOLESCE) 1967 Amd 1 ISO Metric Precision Hexagon Bolts, Screws and Nuts
BSI BS 3692	(OBSOLESCE) 1967 Amd 2 ISO Metric Precision Hexagon Bolts, Screws and Nuts Metric Units (AMD 8227) November 15, 1994 (E)
BSI BS 4190	(OBSOLESCE) 1967 AMD 2 ISO Metric Black Hexagon Bolts, Screws and Nuts
BSI BS 4190	(OBSOLESCE) 1967 AMD 3 ISO Metric Black Hexagon Bolts, Screws and Nuts (AMD 8226) Nov. 15, 1994 (E)
BSI BS 4395 PART 1	1969 Amd 2 High Strength Friction Grip Bolts and Associated Nuts and Washers for Structural Engineering Part 1: General Grade (E)
BSI BS 4395 PART 2	1969 Amd 2 High Strength Friction Grip Bolts and Associated Nuts and Washers for Structural Engineering Part 2: Higher Grade Bolts and Nuts and General Grade Washers (E)
BSI BS 4933	(OBSOLESCE) 1973 ISO Metric Black Cup and Countersunk Head Bolts and Screws with Hexagon Nuts (E)
BSI BS 6040	1981 Nomenclature for Bolts, Screws, Nuts and Accessories
BSI BS 6293 PART 2	1994 Aerospace-MJ Threads Part 2: Limit Dimensions for Bolts and Nuts (ISO 5855-2: 1988) (S)
BSI BS 6293 PART 2	1982 MJ Threads for Aerospace Construction Part 2: Dimensions for Bolts and Nuts
BSI BS 6322 PART 1	1982 Tolerances for Fasteners Part 1: Tolerances of Bolts, Screws and Nuts with Thread Diameter MW 1.6 mm and MV 150 mm and Product Grades A, B and C

TABLE E10.B2 British Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets
(Continued)

Numbers	Title
BSI BS 6322 PART 2	1982 Tolerances for Fasteners Part 2: Tolerances of Bolts, Screws and Nuts with Thread Diameters from 1 mm up to 3 mm and Product Grade F, for Fine Mechanics
BSI BS 6322 PART 3	1992 Tolerances for Fasteners Part 3: Specification for Tolerances of Plain Washers for Bolts, Screws and Nuts with Nominal Thread Diameters from 1 mm up to and Including 150 mm. Product Grades A and C (ISO 4759-3: 1991)
BSI BS 6322 PART 3	1982 Tolerances for Fasteners Part 3: Tolerances of Washers for Metric Bolts, Screws and Nuts with Thread Diameters from 1 mm up to and including 150 mm. Product Grades A and C.
BSI BS 7670 PART 1	1993 Steel Nuts and Bolts for Resistance Projection Welding Part 1: Specification for Dimensions and Properties (E)
BSI BS 7670 PART 1	1993 Amd 1 Steel Nuts and Bolts for Resistance Projection Welding Part 1: Specification for Dimensions and Properties (AMD 8215) July 15, 1994 (E)
BSI BS 7670 PART 2	1997 Steel Nuts and Bolts for Resistance Projection Welding Part 2: Specification for Welding of Weld Nuts and Weld Bolts Supersedes BS 2996: 1958; (E)
BSI BS EN 20225	1992 Fasteners—Bolts, Screws, Studs and Nuts—Symbols and Designations of Dimensions (ISO 225: 1983) (Replaces BS 6565: 1985)
BSI BS EN 28839	1992 Mechanical Properties of Fasteners—Bolts, Screws, Studs and Nuts Made of Non-Ferrous Metals (ISO 8839: 1986) (E)
BSI 2A 58	(OBSOLETE) 1962 Amd 4 Steel Hexagonal Nuts (B.S.F. Threads) for Shear Bolts for Aircraft (Replaces BS A57 and A58: 1952)
BSI 3A 100	1991 General Requirements for Bolts and Free Running Nuts of Tensile Strength not Exceeding 1249 MPa (Supersedes 2A 100: 1968) (S)
BSI 3A 100	1991 Amd 1 General Requirements for Bolts and Free Running Nuts of Tensile Strength not Exceeding 1249 MPa (AMD 7661) April 15, 1993 (S)
BSI 2A 110	1962 Amd 4 Steel Nuts (Unified Hexagons and Unified Threads) for Shear Bolts for Aircraft (Replaces BS A 109 and A 110: 1954)
BSI HR 650	1972 Amd 2 High Expansion Heat-Resisting Steel Bar and Wire for the Manufacture of Bolts, Studs, Set Screws and Nuts (Ni 25.5, Cr 15, Ti 2, Mn 1.5, Mo 1.25, Si 0.7, V 0.3) (Limiting Ruling Section 20 mm)

TABLE E10.B2 British Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets
(Continued)

Numbers	Title
BSI 2S 147	1976 0.5 Per Cent Nickel-Chromium-Molybdenum Steel Bars for the Manufacture of Forged Bolts and Forged Nuts (Replaces BS S 147: 1969)
BSI 2S 147	1976 Amd 1 0.5 Per Cent Nickel-Chromium-Molybdenum Steel Bars for the Manufacture of Forged Bolts and Forged Nuts (AMD 6836) Nov. 29, 1991 (Replaces BS S 147: 1969)
BSI 2S 149	1976 1.75 Per Cent Nickel-Chromium-Molybdenum Steel Bars for the Manufacture of Forged Bolts and Forged Nuts (Replaces BS S 149: 1972)
BSI 2S 149	1976 Amd 1 1.75 Per Cent Nickel-Chromium-Molybdenum Steel Bars for the Manufacture of Forged Bolts and Forged Nuts (AMD 6837) Nov. 29, 1991 (Replaces BS S 149: 1972)
BSI S 158	1977 1 Per Cent Chromium-Molybdenum Steel Bars for the Manufacture of Forged Bolts and Forged Nuts
BSI PD 7300	1979 Nuts and Bolts: Recommended Drawing Ratios for School and Colleges. Teacher's Notes
BSI BSD 3063	(OBSOLESCE) 1965 Amd 1 Dimensions of Gaskets for Pipe Flanges
BSI BS 3381	1989 Spiral Wound Gaskets for Steel Flanges to BS 1560 (Q)
BSI BS 4255 PART 1	1986 Rubber Used in Performed Gaskets for Weather Exclusion from Buildings Part 1: Non-Cellular Gaskets
BSI BS 4332	1989 Phenol-Formaldehyde Resin-Bonded Cork Jointing
BSI BS 7076 PART 1	1989 Dimensions of Gaskets for Flanges to BS 1560 Part 1: Non-Metallic Flat Gaskets (Replaces BS 1560: Part 2: 1970)
BSI BS 7076 PART 2	1989 Dimensions of Gaskets for Flanges to BS 1560 Part 2: Metallic Ring-Joint Gaskets for Use with Steel Flanges (Replaces BS 1560: Part 2 and BS 1970)
BSI BS 7076 PART 2	1989 Amd 1 Dimensions of Gaskets for Flanges to BS 1560 Part 2: Specification for Metallic Ring-Joint Gaskets for Use with Steel Flanges (AMD 8592) June 15, 1995 (Replaces BS 1560: Part 2 and BS 1970) (Q)
BSI BS 7076 PART 3	1989 Dimensions of Gaskets for Flanges to BS 1560 Part 3: Specification for Non-Metallic Envelope Gaskets (Replaces BS 1560: Part 2: 1970)
BSI BS 7076 PART 4	1989 Dimensions of Gaskets for Flanges to BS 1560 Part 4: Corrugated, Flat or Grooved Metallic and Filled Metallic Gaskets (Replaces BS 1560: Part 2: 1970)

TABLE E10.B3 British Standards and Specifications for Valves

Numbers	Title
BSI BS 341: PART 1	1991 Transportable Gas Container Valves Part 1: Specification for Industrial Valves for Working Pressures up to and Including 300 Bar (Supersedes BS 341: Part 2-1963) (E)
BSI BS 341: PART 1	1991 Amd 1 Transportable Gas Container Valves Part 1: Specification for Industrial Valves for Working Pressures up to and Including 300 Bar (AMD 7641) May 15, 1993
BSI BS 759: PART 1	1984 Amd 1 Valves, Gauges and Other Safety Fittings for Application to Boilers and to Piping Installation for and in Connection with Boilers Part 1: Specification for Valves, Mounting and Fittings
BSI BS 1123: PART 1	1987 Safety Valves, Gauges and Fusible Plugs for Compressed Air or Inert Gas Installations Part 1: Code of Practice for Installation
BSI BS 1212 PART 1	1990 Float Operated Valves (Excluding Floats) Part 1: Piston Type Float Operated Valves (Copper Alloy Body) (Excluding Floats)
BSI SI 1212 PART 2	1990 Float Operated Valves (Excluding Floats) Part 2: Diaphragm Type Float Operated Valves (Copper Alloy Body) (Excluding Floats)
BSI BS 1212 PART 3	1990 Float Operated Valves Part 3: Specification for Diaphragm Type Float Operated Valves (Plastic Bodied) for Cold Water Services Only (Excluding Floats)
BSI BS 1212 PART 4	1991 Float Operated Valves Part 4: Specification for Compact Type Float Operated Valves for WC Flushing Cisterns (Including Floats)
BSI BS 1319	1976 Amd 2 Medical Gas Cylinders, Valves and Yoke Connections (AMD 4603) June 29, 1984
BSI BS 1414	1975 Amd 2 Steel Wedge Gate Valves (Flanged and Butt-Welding Ends) for the Petroleum, Petrochemical and Allied Industries (AMD 6562) Aug. 31, 1990
BSI BS 1415: PART 1	1976 Amd 2 Mixing Valves Part 1: Non-Thermostatic, Non-Compensating Mixing Valves
BSI BS 1415: PART 2	1986 Mixing Valves Part 2: Thermostatic Mixing Valves
BSI BS 1552	1995 Open Bottomed Taper Plug Valves for 1st, 2nd and 3rd Family Gases up to 200 mbar (E)
BSI BS 1552	1995 Amd 1 Open Bottomed Taper Plug Valves for 1st, 2nd and 3rd Family Gases up to 200 mbar AMD 9622; Sept. 1997; (E)
BSI BS 1552	1989 Manual Shut-off Valves for Use with 1st, 2nd and 3rd Family Gases
BSI BS 1655	1950 Amd 2 Flanged Automatic Control Valves for the Process Control Industry (Face to Face Dimensions)

TABLE E10.B3 British Standards and Specifications for Valves (*Continued*)

Numbers	Title
BSI BS 1868	1975 Amd 1 Steel Check Valves (Flanged and Butt-Welding Ends) for the Petroleum, Petrochemical and Allied Industries (AMD 6563) July 31, 1990
BSI BS 1873	1975 Amd 1 Steel Globe and Globe Stop and Check Valves (Flanged and Butt-Welding Ends) for the Petroleum, Petrochemical and Allied Industries (AMD 6564) July 31, 1990
BSI BS 1963	1990 Pressure Operated Relay Valves for Domestic, Commercial and Catering Gas Appliances
BSI BS 2080	(OBSOLESCE) 1989 Face-To-Face, Centre-To-Face, End-To-End and Centre-To-End Dimensions of Valves (Partially Superseded by BS EN 558: Part 1: 1994 and BS EN 558: Part 2: 1994)
BSI BS 2080	(OBSOLESCE) 1989 Face-To-Face, Centre-To-Face, End-To-End and Centre-To-End Dimensions of Valves (AMD 8434) May 15, 1995 (Partially Superseded by BS EN 558: Part 1: 1994 and BS EN 558: Part 2: 1994)
BSI BS 2456	1990 Floats (Plastics) for Float Operated Valves for Cold Water Services
BSI BS 2782: PT 11: METH 1101A	1981 Methods of Testing Plastics Part 11: Thermoplastic Pipes, Fittings and Valves Method 1101A: Measurement of Dimensions of Pipes
BSI BS 2782: PT 11: METH 1106A	1983 Methods of Testing Plastics Part 11: Thermoplastic Pipes, Fittings and Valves Method 1106 A: Assessment of Pigment Dispersion in Polyolefin Pipes and Fittings: Microtome Method
BSI BS 2782: PT 11: METH 1108A	1989 Methods of Testing Plastics Part 11: Thermoplastic Pipes, Fittings and Valves Method 1108 A: True Impact Rate (TIR) Boundaries of Pipes (Read in Conjunction with BS 2782: Part 0)
BSI BS 2782: PT 11: METH 1109A	1989 Methods of Testing Plastics Part 11: Thermoplastic Pipes, Fittings and Valves Method 1109 A: Resistance to Environmental Stress Cracking of Polyethylene Pipes and Fitting for Non-Pressure Applications
BSI BS 2782: PT 11: METH 1110	1989 Methods of Testing Plastics Part 11: Thermoplastic Pipes, Fittings and Valves Method 1110: Tensile Properties of Dumb-Bell Specimens from PVC Gutter Profiles or Pipes for Non-Pressure Applications Read in Conjunction with BS 2782: Part 0
BSI BS 2782: PT 11: METH 1112 A	(OBSOLESCE) 1989 Methods of Testing Plastics Part 11: Thermoplastic Pipes, Fittings and Valves Method 1112 A: Leaktightness of Thermoplastic Pipes and Fittings for Non-Pressure Applications Superseded by BS EN 1053: 1996; Read in Conjunction with BS 2782: Part 0

TABLE E10.B3 British Standards and Specifications for Valves (*Continued*)

Numbers	Title
BSI BS 2782: PT 11: METH 1121B	1997 Methods of Testing Plastics Part 11: Pipes, Fittings and Valves Method 1121 B: Thermoplastic Pipes for the Conveyance of Fluids—Nominal Outside Diameters and Nominal Pressures—Metric Series ISO 161-1: 1996; (V)
BSI BS 2782: PT 11: METH 1121C	1997 Methods of Testing Plastics Part 11: Pipes, Fittings and Valves Method 1121 C: Thermoplastic Pipes for the Conveyance of Fluids—Nominal Outside Diameters and Nominal Pressures—Inch-Based Series ISO 161-2: 1996; Together with BS ISO 4065 and BS ISO 11922-2
BSI BS 2782: PT 11: METH 1121H	1996 Methods of Testing Plastics Part 11: Thermoplastic Pipes, Fittings and Valves Method 1121 H: Thermoplastic Pipes for Transport of Liquids under Pressure—Calculation of Head Losses (ISO/TR 10501: 1993) (V)
BSI BS 2782: PT 11: METH 1127P	1997 Methods of Testing Plastics Part 11: Thermoplastic Pipes, Fittings and Valves Method 1127P: Thermoplastic Pipes for the Conveyance of Fluids—Resistance to Internal Pressure—Test Method ISO 1167: 1996; (V)
BSI BS 2782: PT 11: METH 1131	1992 Thermoplastic Valves-Torque-Test Method (ISO 8233: 1988)
BSI BS 2782: PT 11: METH 1132	1992 Thermoplastic Valves-Fatigue Strength-Test Method (ISO 8659: 1989)
BSI BS 2782: PT 11: METH 1133A	1997 Plastic Piping Systems—Valves for Polyethylene (PE)-Piping Systems—Test Methods for Leaktightness Under and after Bending applied to the Operating Mechanism. Also Known as BS EN 1680: 1997; (V)
BSI BS 2782: PT 11: METH 1133B	1997 Plastic Piping Systems—Thermoplastics Valves-Test Methods for the Integrity of a Valve After Temperature Cycling under Bending Also Numbered as BS EN 1704: 1997; (V)
BSI BS 2782: PT 11: METH 1133C	1997 Plastic Piping Systems—Thermoplastics Valves-Test Method for Integrity of a Valve After an External Blow Also Known as BS EN 1705: 1997; (V)
BSI BS 2782: PT 11: METH 1133E	1997 Plastic Piping Systems—Polyethylene (PE) Valves-Test Method for Resistance to Thermal Cycling Also Numbered as BS EN 12119: 1997; (V)
BSI BS 2782: PT 11: METH 1134A	1997 Plastic Piping Systems—Thermoplastics Valves-Test Methods for Resistance to Internal Pressure and Leaktightness Also Numbered as BS EN 917: 1997; (V)
BSI BS 2782: PT 11: METH 1150E	Methods of Testing Plastics Part 11: Thermoplastic Pipes, Fittings and Valves Method 1150E: Plastic Pipe and Fittings—Preparation of Test Piece Assemblies between a Polyethylene (PE) Pipe and Electrofusion Fitting ISO 11413: 1996 (V)

TABLE E10.B3 British Standards and Specifications for Valves (*Continued*)

Numbers	Title
BSI BS 2782: PT12: METH 1211A–F	1997 Plastic Piping Systems—Glass-Reinforced Thermosetting Plastics (GRP) Pipes—Determination of Apparent Initial Circumferential Tensile Strength Also Numbered as BS EN 1394: 1997; (V)
BSI BS 2879	1980 Amd 3 Draining Taps (Screw-Down Pattern)
BSI BS 3457	1973 Material for Water Tap and Stopvalve Seat Washers
BSI BS 4062: PART 1	1982 Valves for Hydraulic Fluid Power Systems Part 1: Methods for Determining Pressure Differential Pressure/Flow Characteristics
BSI BS 4062: PART 2	1990 Valves for Hydraulic Fluid Power Systems Part 2: Methods for Determining Performance
BSI BS 5041: PART 1	1987 Amd 1 Fire Hydrant System Equipment Part 1: Landing Valves for Wet Risers (AMD 5912) Sept. 30, 1988
BSI BS 5041: PART 1	1975 Fire Hydrant System Equipment Part 1: Landing Valves for Wet Risers
BSI BS 5041: PART 2	1987 Amd 1 Fire Hydrant System Equipment Part 2: Landing Valves for Dry Risers (AMD 5776) July 29, 1988
BSI BS 5041: PART 2	1976 Fire Hydrant System Equipment Part 2: Landing Valves for Dry Risers
BSI BS 5041: PART 4	1975 Amd 1 Fire Hydrant Systems Equipment Part 4: Boxes for Landing Valves for Dry Risers
BSI BS 5150	1990 Cast Iron Gate Valves
BSI BS 5151	1974 Amd 2 Cast Iron Gate (Parallel Slide) Valves for General Purposes (Replaces BS 3948: 1965)
BSI BS 5152	1974 Amd 4 Cast Iron Globe and Globe Stop and Check Valve for General Purposes AMD 6042; July 31, 1989; Replaces BS 3961: 1965; (Q)
BSI BS 5153	1974 Amd 3 Cast Iron Check Valves for General Purposes (AMD 6067) July 31, 1989 (Replaces BS 4090: 1966)
BSI BS 5154	1991 Copper Alloy Globe, Globe Stop and Check, Check and Gate Valves
BSI BS 5155	1984 Amd 1 Butterfly Valves
BSI BS 5155	1984 Amd 2 Butterfly Valves (AMD 6990) May 1, 1992
BSI BS 5156	1985 Amd 1 Diaphragm Valves for General Purposes (AMD 6513) June 29, 1990
BSI BS 5157	1989 Steel Gate (Parallel Slide) Valves
BSI BS 5158	1989 Cast Iron Plug Valves
BSI BS 5159	1974 Amd 2 Cast Iron and Carbon Steel Ball Valves for General Purposes
BSI BS 5160	1989 Steel Globe Valves, Globe Stop and Check Valves and Lift Type Check Valves

TABLE E10.B3 British Standards and Specifications for Valves (*Continued*)

Numbers	Title
BSI BS 5163	1986 Amd 2 Predominantly Key-Operated Cast Iron Gate Valves for Waterworks Purposes (AMD 6057) July 31, 1989
BSI BS 5351	1986 Amd 3 Steel Ball Valves for the Petroleum, Petrochemical and Allied Industries (AMD 6271) Sept. 28, 1990 (E)
BSI BS 5352	1981 Amd 2 Steel Wedge Gate, Globe and Check Valves 50 mm and Smaller for the Petroleum, Petrochemical and Allied Industries (AMD 6560) Aug. 31, 1990 (Supersedes BS 2995: 1996)
BSI BS 5353	1989 Steel Plug Valves
BSI BS 5672	1991 Designation of the Direction of Rotation of Cylinders and Valves in Cylinder Heads, and Definition of Right-Hand and Left-Hand in-Line Engines and Locations on an Engine for Reciprocating Internal Combustion Engines (ISO 1204: 1990) (Replaces BS 5673: 1979, BS 5674: 1979)
BSI BS 5793: PART 1	1989 Industrial-Process Control Valves Part 1: Specification and Terminology for Control Valves (IEC 534-1: 1987) (Q)
BSI BS 5793: SEC 3.2	1985 Industrial Process Control Valves Part 3: Dimensions Section 3.2: Face-to-Face Dimensions for Flangeless Control Valves Except Wafer Butterfly Valves
BSI BS 5793: PART 4	1987 Industrial Process Control Valves Part 4: Inspection and Routine Testing
BSI BS 5793: PART 5	1984 Industrial Process Control Valves Part 5: Specification for Marking
BSI BS 5793: PART 6	1986 Industrial Process Control Valves Part 6: Mounting Details for Attachment of Positioners to Control Valve Actuators
BSI BS 5793: SEC 8.1	1986 Industrial Process Control Valves Part 8: Noise Considerations Section 8.1: Method for Laboratory Measurement of Noise Generated by Aerodynamic Flow Through Control Valves
BSI BS 5834 PART 2	1983 Surface Boxes, and Guards for Underground Stopvalves for Gas and Waterworks Purposes Part 2: Small Surface Boxes (Replaces BS 1426 and 3461: 1969)
BSI BS 5834 PART 3	1985 Surface Boxes, and Guards for Underground Stopvalves for Gas and Waterworks Purposes Part 3: Large Surface Boxes
BSI BS 5944: PART 4	1984 Measurement of Airborne Noise From Hydraulic Fluid Power Systems and Components Part 4: Method of Determining Sound Power Levels from Valves Controlling Flow and Pressure
BSI BS 5995	1980 Methods of Test for Electrohydraulic Servovalves

TABLE E10.B3 British Standards and Specifications for Valves (*Continued*)

Numbers	Title
BSI BS 6282: PART 1	1982 Devices with Moving Parts for the Prevention of Contamination of Water by Backflow Part 1: Check Valves of Nominal Size up to and Including DN 54
BSI BS 6282: PART 2	1982 Devices with Moving Parts for the Prevention of Contamination of Water by Backflow Part 2: Terminal Anti-Vacuum Valves of Nominal Size up to and Including DN 54
BSI BS 6282: PART 3	1982 Devices with Moving Parts for the Prevention of Contamination of Water by Backflow Part 3: In-Line Anti-Vacuum of Nominal Size up to and Including DN 42
BSI BS 6282: PART 4	1982 Devices with Moving Parts for the Prevention of Contamination of Water by Backflow Part 4: Combined Check and Anti-Vacuum Valves of Nominal Size up to and Including DN 42
BSI BS 6283: PART 1	1991 Safety and Control Devices for Use in Hot Water Systems Part 1: Specification for Expansion Valves for Pressure up to and Including 10 Bar
BSI BS 6283: PART 1	1982 Safety Devices for Use in Hot Water Systems Part 1: Specification for Expansion Valves for Pressures up to and Including 10 Bar (R)
BSI BS 6283: PART 2	1991 Safety and Control Devices for Use in Hot Water Systems Part 2: Specification for Temperature Relief Valves for Pressures from 1 Bar to 10 Bar
BSI BS 6283: PART 2	1982 Safety Devices for Use in Hot Water Systems Part 2: Specification for Temperature Relief Valves for Pressure up to and Including 10 Bar
BSI BS 6283: PART 3	1991 Safety and Control Devices for Use in Hot Water Systems Part 3: Specification for Combined Temperature and Pressure Relief Valves for Pressures from 1 Bar to 10 Bar
BSI BS 6283: PART 3	1982 Safety Devices for Use in Hot Water Systems Part 3: Specification for Combined Temperature and Pressure Relief Valves for Pressures up to and Including 10 Bar
BSI BS 6283: PART 4	1991 Safety and Control Devices for Use in Hot Water Systems Part 4: Specification for Drop-Tight Pressure Reducing Valves of Nominal Size up to and Including DN 50 for Supply Pressures up to and Including 12 Bar
BSI BS 6494: PART 2	1986 Hydraulic Fluid Power Valve Mounting Devices Part 2: Four-Port and Five-Port Servo Valves
BSI BS 6494: PART 3	1989 Hydraulic Fluid Power Valve Mounting Surfaces Part 3: Pressure-Relief Valves
BSI BS 6494: PART 4	1989 Hydraulic Fluid Power Valve Mounting Surfaces Part 4: Clamping Dimensions of Four-Port Sizes 03 and 05, Modular Stack Valves and Directional Control Valves

TABLE E10.B3 British Standards and Specifications for Valves (*Continued*)

Numbers	Title
BSI BS 6494: PART 6	1989 Hydraulic Fluid Power Valve Mounting Surfaces Part 6: Pressure-Control Valves (Excluding Pressure-Relief Valves), Sequence Valves, Unloading Valves, Throttle Valves and Check Valves
BSI BS 6675	1986 Servicing Valves (Copper Alloy) for Water Services
BSI BS 6683	1985 Amd 1 Installation and Use of Valves (AMD 6604) April 30, 1991 (E)
BSI 6697	1986 Electrohydraulic Proportional Control Valves
BSI 6755: PART 1	1986 Testing of Valves Part 1: Production Pressure Testing Requirements (Replaces the Requirements for Production Pressure Testing in BS 5146: Part 1: 1974 and BS 5146: Part 2: 1984)
BSI 6755: PART 2	1987 Amd 2 Testing of Valves Part 2: Specification for Fire Type-Testing Requirements (AMD 6712) June 28, 1991 (Replaces BS 5146: Part 1: 1974 and BS 5146: Part 2: 1984)
BSI BS 6759: PART 1	1984 Amd 1 Safety Valves Part 1: Specification for Safety Valves for Steam and Hot Water (AMD 5493) March 31, 1987 (Replaces BS 759: Part 2: 1975)
BSI BS 6759: PART 1	1984 Amd 2 Safety Valves Part 1: Specification for Safety Valves for Steam and Hot Water (AMD 8272) Feb. 15, 1995 (Q)
BSI BS 6759: PART 2	1984 Amd 1 Safety Valves Part 2: Specification for Safety Valves for Compressed Air or Inert Gases (AMD 5494) March 31, 1987 (Replaces BS 1123: Part 2: 1975)
BSI BS 6759: PART 2	1984 Amd 2 Safety Valves Part 2: Specification for Safety Valves for Compressed Air or Inert Gases AMD 9276; Jan. 15, 1997; (Q)
BSI BS 6759: PART 3	1984 Amd 1 Safety Valves Part 3: Specification for Safety Valves for Process Fluids
BSI BS 6759: PART 3	1984 Amd 2 Safety Valves Part 3: Specification for Safety Valves for Process Fluids (AMD 8273) Feb. 15, 1995 (Q)
BSI BS 6821	1988 Methods for Aerodynamic Testing of Dampers and Valves
BSI BS 7296: PART 1	1990 Cavities for Hydraulic Fluid Power Cartridge Valves Part 1: Two-Port Slip-in Valves
BSI BS 7350	1990 Double Regulating Globe Valves and Flow Measurement Devices for Heating and Chilled Water Systems
BSI BS 7350	1990 Amd 1 Double Regulating Globe Valves and Flow Measurement Devices for Heating and Chilled Water Systems (AMD 6865) Dec. 24, 1991

TABLE E10.B3 British Standards and Specifications for Valves (*Continued*)

Numbers	Title
BSI BS 7389: PART 1	1990 Pneumatic Fluid Power Valve Mounting Surfaces Part 1: Five Port Directional Control Valves (Without Electrical Connector)
BSI BS 7403: PART 9	1995 Full-Flow Lubricating Oil Filters for Internal Combustion Engines Part 9: Method for Test for Inlet and Outlet Anti-Drain Valves (ISO 4548-9: 1995) (E)
BSI BS 7438	1991 Steel and Copper Alloy Wafer Check Valves, Single Disc, Spring-Loaded Type
BSI BS EN 488	1995 Preinsulated Bonded Pipe Systems for Underground Hot Water Networks—Steel Valve Assembly for Steel Service Pipes, Polyurethane Thermal Insulation and Outer Casing of Polyethylene (E)
BSI BS EN 558-1	1996 Industrial Valves—Face-to-Face and Centre-to-Face Dimensions of Metal Valves for Use in Flanged Pipe Systems Part 1: PN-Designated Valves (F)
BSI BS EN 558-2	1996 Industrial Valves—Face-to-Face and Centre-to-Face Dimensions of Metal Valves for Uses in Flanged Piping Systems Part 2: Class-Designated Valves (F)
BSI BS EN 561	1995 Gas Welding Equipment—Quick-Action Couplings with Shut-off Valves for Welding, Cutting and Allied Processes (F)
BSI BS EN 736-1	1995 Valves—Terminology Part 1: Definition of Type of Valves (V)
BSI BS EN 736-2	1997 Valves—Terminology Part 2: Definition of Components of Valves (E)
BSI BS EN 816	1997 Sanitary Tapware—Automatic Shut-off Valves PN 10 (R)
BSI BS EN 917	1997 Plastic Piping Systems—Thermoplastic Valves—Test Methods for Resistance to Internal Pressure and Leaktightness Also Numbered as BS 2782: Part 11: Methods 1134A and B: 1997; (V)
BSI BS EN 1092-2	1997 Flanges and Their Joints—Circular Flanges for Pipes, Valves, Fittings and Accessories, PN Designated Part 2: Cast Iron Flanges Supersedes BS 4504: Section 3.2: 1989; (Q)
BSI BS EN 1112	1997 Shower Outlets for (PN 10) Sanitary Tapware (L)
BSI BS EN 1680	1997 Plastic Piping Systems—Valves for Polyethylene (PE) Piping Systems—Test Method for Leaktightness Under and After Bending Applied to the Operating Mechanism. Also Known as BS 2782: Part 11: Method 1133 A: 1997; (V)
BSI BS EN 1704	1997 Plastics Piping Systems—Thermoplastics Valves—Test Method for the Integrity of a Valve After Temperature Cycling under Bending Also Numbered as BS 2782: Part 11: Method 1133B: 1997; (V)

TABLE E10.B3 British Standards and Specifications for Valves (*Continued*)

Numbers	Title
BSI BS EN 1705	1997 Plastics Piping Systems—Thermoplastics Valves—Test Method for the Integrity of a Valve After an External Blow Also Known as BS 2782: Part 11: Method 1133C: 1997; (V)
BSI BS EN 12119	1997 Plastics Piping Systems—Polyethylene (PE) Valves—Test Method for Resistance to Thermal Cycling. Also Numbered as BS 2782: Part 11: Method 1133E: 1997; (V)
BSI BS EN 28233	1992 Thermoplastics Valves—Torque-Test Method (ISO 8233: 1988) (Also numbered BS 2782: Part 11: Method 1131: 1992)
BSI BS EN 28659	1992 Thermoplastics Valves—Fatigue Strength-Test Method (ISO 8659: 1989) (Also Numbered BS 2782: Part 11: Method 1132: 1992)
BSI B EN 60534-1	1993 Amd 1 Industrial-Process Control Valves Part 1: Control Valve Terminology and General Considerations (IEC 534-1: 1987) (AMD 7815) July 15, 1993 (Formerly BS 5793: Part 1: 1989) (Q)
BSI BS EN 60534-2-1	1993 Amd 1 Industrial-Process Control Valves Part 2: Flow Capacity Section 1: Sizing Equations for Incompressible Fluid Flow Under Installed Conditions (AMD 7816) July 15, 1993 (Formerly BS 5793: Part 2: Section 2.1: 1979. Replaces BS 4740: Part 1: 1971) (Q)
BSI BS EN 60534-2-2	1993 Amd 1 Industrial-Process Control Valves Part 2: Flow Capacity Section 2: Sizing Equations for Incompressible Fluid Flow Under Installed Conditions (AMD 7817) July 15, 1993 (Formerly BS 5793: Section 2.2: 1981. Replaces BS 4740: Part 2: 1971) (Q)
BSI BS EN 60534-2-3	1993 Amd 1 Industrial-Process Control Valves Part 2: Flow Capacity Section 3: Test Procedures (IEC 534-2-3: 1983) (AMD 7818) July 15, 1993 (Formerly BS 5793: Section 2.3: 1993) (Q)
BSI BS EN 60534-8-2	1993 Amd 1 Industrial-Process Control Valves Part 8: Noise Considerations Section 2: Laboratory Measurement of Noise Generated by Hydrodynamic Flow Through Control Valves (IEC 534-8-2: 1991) (AMD 7819) July 15, 1993 (Formerly BS 5793: Section 8.2: 1991) (Q)
BSI BS EN 60534-8-3	1996 Industrial-Process Control Valves Part 8: Noise Considerations Section 3: Control Valve Aerodynamic Noise Prediction Method (IEC 534-8-3: 1995) (Q)
BSI BS EN 60534-8-4	1994 Industrial-Process Control Valves Part 8: Noise Considerations Section 8.4: Prediction of Noise Generated by Hydrodynamic Flow (IEC 534-8-4: 1994) (Q)

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings

Numbers	Title
DIN 76 PT 2	Thread Run-Outs and Thread Undercuts for Pipe Threads Conforming to ISO 228 Part 1—1984
DIN 259 PT 1	Whitworth Pipe Threads; Parallel Internal and Parallel External Screw Threads; Nominal Dimensions (Not to Be Used for New Design Projects)
DIN 259 PT 2	Whitworth Pipe Threads; Parallel Internal and Parallel External Screw Threads; Tolerances (Not to Be Used for New Design Projects)
DIN 259 PT 3	Whitworth Pipe Threads; Parallel Internal and Parallel External Screw Threads; Limiting Dimensions (Not to Be Used for New Design Projects)
DIN 431	Pipe Nuts with Thread in Accordance with DIN ISO 228 Part 1—1982
DIN 906	Hexagon Socket Pipe Plugs—1992
DIN 909	Hexagon Head Pipe Plugs—1992
DIN 1389 PT 1	Connectors for Water Closets; Dimensions
DIN 1389 PT 2	Connectors for Water Closets; Principles of Construction and Testing
DIN 1986-4	Site Drainage Systems; Use of Sewer Pipes and Fittings Made of Different Materials
DIN 1988 PT 3	Drinking Water Supply Systems; Pipe Sizing (DVGW Code of Practice)—1988
DIN 2406	Pipelines; Symbols; Pipe Classes—1968
DIN 2559 PT 1	Edge Preparation for Welding; Directions Regarding Edge Forms; Fusion Welding of Butt Joints in Steel Tubes
DIN 2559 PT 2	Edge Preparation for Welding; Matching of Inside Diameter for Circumferential Welds on Seamless Pipes
DIN 2559 PT 3	Weld Preparation; Inside Diameters of Steel Pipes Required for Circumferential; Butt Welding
DIN 3567	Pipe Brackets for NW 20 to 500—1963
DIN 3568	Clamping Plates for the Suspension of Pipes on I and IP Steel Beams
DIN 3570	Steel Strap for Tubes of NW 20 to 500
DIN 3575	Hanger Straps with Welding End for Pipe Hanging—1962
DIN 3853	Solderless and Soldered Pipe Unions; Threaded Ends for Union Nuts; Design Sheets—1982
DIN 3858	Whitworth Pipe Threads for Pipe Couplings; Parallel Internal Threads and Taper External Threads; Thread Dimensions—1988
DIN 3861	Solderless Pipe Unions; Cutting Rings; Design and Type W Bore Shape—1982

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
DIN 3867	Solderless Pipe Unions with Cutting Ring; Thrust Collars for Butt Joints—1982
DIN 3870	Soldered and Solderless Pipe Couplings; Coupling Nuts—1985
DIN 3872	Solderless Pipe Couplings with Cutting Ring; Coupling Nuts for Butt Joints—1985
DIN 3904	Olive Type Compression Couplings; Male Stud Elbows
DIN 3907	Olive Type Compression Couplings; Male Stud Tees (Stud Branch)
DIN 3908	Solderless Compression Couplings with Olive; Equal Tees
DIN 3911	Solderless Compression Couplings with Olive; Elbow Bulkhead Compression Couplings
DIN 3914	Olive Type Compression Couplings; Male Stud Tees (Stud Run)
DIN 3952	Solderless Compression Couplings with Olive; Male Stud Elbow Assemblies
DIN 3953	Solderless Compression Couplings with Olive; Male Stud Tee (Stud Branch) Assemblies
DIN 3954	Solderless Compression Couplings with Olive; Male Stud Tee (Stud Run) Assemblies
DIN 4060	Elastomer Seals for Pipe Joints in Drain and Sewers; Requirements and Testing—1988
DIN 4922 PT 1	Steel Filter Pipes for Drilled Wells with Slot Perforation and Fishing; (Butt Strap Joint)
DIN 4941	Screw Threads for Drill Pipes for Seamless Drill Pipes for Water and Rock Drillings According to the Percussion Drilling and Core Drilling Method
DIN 7632	Compression Couplings with Spherical Liner; Reducers
DIN 7639	Compression Couplings with Spherical Liner; Equal Tees
DIN 8975 PT 9	Refrigeration Plants; Safety Principles for Design, Equipment and Installation; Flexible Pipe Elements in the Refrigerant Circuit
DIN 16928	Pipes of Thermoplastic Materials; Pipe Joints, Elements for Pipes, Laying; General Directions—1979
DIN 16962 PT 1	Pipe Joints and Elements for Polypropylene (PP) Pressure Pipelines Types 1 and 2; Bends of Segmental Construction for Butt-Welding; Dimensions—1980

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
DIN 16962 PT 2	Pipe Joint Assemblies and Fittings for Types 1 and 2 Polypropylene (PP) Pressure Pipes; Tees and Branches Produced by Segment Inserts and Necking for Butt Welding; Dimensions—1983
DIN 16962 PT 3	Pipe Joints and Elements for Polypropylene (PP) Pressure Pipelines; Types 1 and 2; Bends Formed from Pipe for Butt-Welding; Dimensions—1980
DIN 16962 PT 5	Pipe Joint Assemblies and Fittings for Types 1 and 2 Polypropylene (PP) Pressure Pipes; General Quality Requirements and Testing—1989
DIN 16962 PT 6	Pipe Joints and Elements for Polypropylene (PP) Pressure Pipelines; Types 1 and 2; Injection Moulded Elbows for Socket-Welding; Dimensions—1980
DIN 16962 PT 7	Pipe Joints and Elements for Polypropylene (PP) Pressure Pipelines; Types 1 and 2; Injection Moulded Tee Pieces for Socket-Welding; Dimensions—1980
DIN 16962 PT 8	Pipe Joints and Elements for Polypropylene (PP) Pressure Pipelines; Types 1 and 2; Injection Moulded Sockets and Caps for Socket-Welding; Dimensions—1980
DIN 16962 PT 9	Pipe Joint Assemblies and Fittings for Types 1 and 2 Polypropylene (PP) Pressure Pipes; Injection Moulded Reducers and Nipples for Socket Welding; Dimensions—1983
DIN 16962 PT 10	Pipe Joint Assemblies and Fittings for Types 1 to 3 Polypropylene (PP) Pressure Pipes; Injection-Moulded Fittings for Butt Welding; Dimensions—1989
DIN 16962 PT 11	Pipe Joints and Elements for Polypropylene (PP) Pressure Pipelines; Types 1 and 2; Turned and Pressed Reducing Sockets for Butt-Welding; Dimensions—1980
DIN 16962 PT 13	Pipe Joint Assemblies and Fittings for Type 1 and Type 2 Polypropylene (PP) Pressure Pipes; Pipe Couplings; Dimensions—1987
DIN 16963 PT 1	Pipe Joints and Elements for High Density Polyethylene (HDPE) Pressure Pipelines; Types 1 and 2; Pipe Bends of Segmental Construction for Butt-Welding; Dimensions—1980
DIN 16963 PT 2	Pipe Joint Assemblies and Fittings for Types 1 and 2 High Density Polyethylene (HDPE) Pressure Pipes; Tees and Branches Produced by Segment Inserts and Necking for Butt Welding; Dimensions—1983
DIN 16963 PT 3	Pipe Joints and Elements for High Density Polyethylene (HDPE) Pressure Pipelines; Types 1 and 2; Pipe Bends for Butt-Welding; Dimensions—1980

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
DIN 16963 PT 5	Pipe Joint Assemblies and Fittings for High Density Polyethylene (PE-HD) Pressure Pipes; General Quality Requirements and Testing—1989
DIN 16963 PT 6	Pipe Joint Assemblies and Fittings for High Density Polyethylene (PE-HD) Pressure Pipes; Injection-Moulded Fittings for Butt Welding; Dimensions—1989
DIN 16963 PT 7	Pipe Joints Assemblies and Fittings for High Density Polyethylene (PE-HD) Pressure Pipes; Fittings for Resistance Welding; Dimensions—1989
DIN 16963 PT 8	Pipe Joints and Elements for High Density Polyethylene (HDPE) Pressure Pipelines; Types 1 and 2; Injection-Moulded Elbows for Socket-Welding; Dimensions—1980
DIN 16963 PT 9	Pipe Joints and Elements for High Density Polyethylene (HDPE) Pressure Pipelines; Types 1 and 2; Injection-Moulded Tee Pieces for Socket-Welding, Dimensions—1980
DIN 16963 PT 10	Pipe Joints and Elements for High Density Polyethylene (HDPE) Pressure Pipelines; Types 1 and 2; Injection-Moulded Sockets and Caps for Socket-Welding; Dimensions—1980
DIN 16963 PT 13	Pipe Joints and Elements for High Pressure Polyethylene (HDPE) Pressure Pipelines; Types 1 and 2; Turned and Pressed Reducing Sockets for Butt-Welding; Dimensions—1980
DIN 16963 PT 14	Pipe Joint Assemblies and Fittings for Types 1 and 2 High-Density Polyethylene (HDPE) Pressure Pipes; Injection Moulded Reducers and Nipples for Socket Welding; Dimensions—1983
DIN 16963 PT 15	Pipe Joint Assemblies and Fittings for High-Density Polyethylene (PE-HD) Pressure Pipes; Pipe Couplings; Dimensions—1987
DIN 16966 PT 1	Glass Fibre Reinforced Polyester Resin (UP-GF) Pipe Fittings and Joint Assemblies; Fittings: General Quality Requirements and Testing—1988
DIN 16966 PT 2	Glass Fibre Reinforced Polyester Resin (UP-GF) Pipe Fittings and Joints; Elbows; Dimensions—1982
DIN 16966 PT 4	Glass Fibre Reinforced Polyester Resin (UP-GF) Pipe Fittings and Joints; Tees; Nozzles; Dimensions—1982
DIN 16966 PT 5	Glass Fibre Reinforced Polyester Resin (UP-GF) Pipe Fittings and Joints; Reducers; Dimensions—1982
DIN 16966 PT 8	Glass Fibre Reinforced Polyester Resin (UP-GF) Pipe Fittings and Joints; Laminated Joints; Dimensions—1982

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
DIN 16970	Adhesives for Bonding Pipes and Pipe System Elements of Rigid PVC; General Quality Requirements and Testings—1970
DIN 19532	Pipelines of Unplasticized Polyvinyl Chloride (Rigid PVC, PVC-U) for Drinking Water Supply; Pipes; Pipe Joints; Pipeline Parts; DVGW Technical Rule—1979
DIN 19559 PT1	Measurement of Flow of Waste Water in Open Channels and Gravity Conduits; General Information
DIN 28065	Thermal Shock Resistance of Enamelled Steel Appliances and Pipe Fittings for Process Engineering Applications—1993
DIN 86041 PT 1	Welding Flanges for Tanks and Sea Boxes; Nominal Pressure 10 and 16
DIN EN 253	Preinsulated Bonded Pipe Systems for Underground Hot Water Networks; Pipe Assemblies of Steel Service Pipes, Polyurethane Thermal Insulation and Polyethylene Outer Casing—1994
DIN EN 448	Preinsulated Bonded Pipe Systems for Underground Hot Water Networks; Fitting Assemblies of Steel Service Pipes, Polyurethane Thermal Insulation and Polyethylene Outer Casing—1994
DIN EN 476	General Requirements for Components Used in Discharge Pipes, Drains and Sewers for Gravity Systems; Supersedes DIN 19543: 1982-08, DIN 19549: 1989-02, DIN 19550: 1987-10 and DIN 19550-2: 1990-05
DIN EN 489	Preinsulated Bonded Pipe Systems for Underground Hot Water Networks; Joint Assemblies for Steel Service Pipes with Polyurethane Thermal Insulation and Polyethylene Outer Casing—1994
DIN EN 681-1	Materials Requirements for Elastomeric Pipe Joint Seals Used in Water and Drainage Applications; Vulcanized Rubber—1996; Supersedes Parts of DIN 4060, December 1988 Edition
DIN EN 911	Elastomeric Sealing Ring Type Joints and Mechanical Joints for Thermoplastics Pressure Piping; Test Method for Leaktightness under External Hydrostatic Pressure—1995
DIN EN 1277	Thermoplastics Piping Systems for Buried Non-Pressure Applications; Test Methods for Leaktightness of Elastomeric Sealing Ring Type Joints—1996
DIN EN 1716	Polyethylene (PE) Tapping Tees; Test Method for Impact Resistance of an Assembled Tapping Tee

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
DIN EN 10242	Threaded Pipe Fitting in Malleable Cast Iron English Version of DIN EN 10242 (Supersedes DIN 2950, April 1983 Edition)—1995
DIN 1478	Turnbuckles Made from Steel Tube or Round Steel Bar—1975
DIN 7340	Tubular Rivets; Made from Tube—1993
DIN 28187	Tube-To-Tube-Sheet Joints in Tubular Heat Exchangers—1991
DIN 52613	Thermal Insulation Testings; Determination of Thermal Conductivity by the Tube Method—1977
DIN EN 754-1	Aluminium and Aluminium Alloy Cold Drawn Rod/Bar and Tube Part 1: Technical Conditions for Inspection and Delivery—1997; Together with DIN 755-1 Supersedes DIN 1746-2 and DIN 1747-2
DIN EN 754-2	Aluminium and Aluminium Alloy Cold Drawn Rod/Bars and Tube Part 2: Mechanical Properties—1997; Together with DIN 755-2 Supersedes DIN 1746-1 and 1747-1
DIN EN 754-3	Aluminium and Aluminium Alloy Cold Drawn Rod/Bar and Tube; Round Bars: Tolerances on Dimensions and Form; (Supersedes DIN 1798, September 1986 Edition)—1996
DIN EN 754-4	Aluminium and Aluminium Alloy Cold Drawn Rod/Bar and Tube; Square Bars: Tolerances on Dimensions and Form; (Supersedes DIN 1796, September 1986 Edition)—1996
DIN EN 754-5	Aluminium and Aluminium Alloy Cold Drawn Rod/Bar and Tube; Rectangular Bars: Tolerances on Dimensions and Form; (Supersedes DIN 1769, September 1986 Edition)—1996
DIN EN 754-6	Aluminium and Aluminium Alloy Cold Drawn Rod/Bar and Tube; Hexagonal Bars: Tolerances on Dimensions and Form; (Supersedes DIN 1797, September 1986 Edition)—1996
DIN EN 755-1	Aluminium and Aluminium Alloy Extruded Rod/Bar, Tube and Profiles Part 1: Technical Conditions for Inspection and Delivery—1997; Replaces DIN 1748-2 February 1983; and Together with DIN EN 754-1 August 1997 Replaces DIN 1746-2 and 1747-2 February 1983
DIN EN 755-2	Aluminium and Aluminium Alloy Extruded Rod/Bar, Tube and Profiles Part 2: Mechanical Properties—1997; Supersedes DIN 1748-1 February 1983; Together with DIN EN 754-2 August 1997 Supersedes DIN 1746-1 January 1987 and DIN 1747-1 February 1983

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
DIN EN 755-3	Aluminium and Aluminium Alloy Extruded Rod/Bar, Tube and Profiles; Round Bars: Tolerances on Dimensions and Form—1995 (Supersedes DIN 1799, September 1986 Edition)
DIN EN 755-4	Aluminium and Aluminium Alloy Extruded Rod/Bar, Tube and Profiles; Square Bars: Tolerances on Dimensions and Form—1995 (Supersedes DIN 59700, August 1986 Edition)
DIN EN 755-5	Aluminium and Aluminium Alloy Extruded Rod/Bar, Tube and Profiles; Rectangular Bars: Tolerances on Dimensions and Form—1995 (Supersedes DIN 1770, September 1987 Edition)
DIN EN 755-6	Aluminium and Aluminium Alloy Extruded Rod/Bar, Tube and Profiles; Hexagonal Bars: Tolerances on Dimensions and Form—1995 (Supersedes DIN 59701, August 1986 Edition)
DIN EN 10232	Metallic Materials; Tube (In Full Section) Bend Test—1994
DIN EN 10233	Metallic Materials; Tube Flattening Test—1994 (Supersedes DIN 50136, June 1979 Edition)
DIN EN 10234	Metallic Materials; Tube Drift Expanding Test—1994 (Supersedes DIN 50135, August 1965 Edition)
DIN EN 10235	Metallic Materials; Tube Flanging Test—1994 (Supersedes DIN 50139, November 1965 Edition)
DIN EN 10236	Metallic Materials; Tube Ring Expanding Test—1994 (Supersedes DIN 50137, June 1979 Edition)
DIN EN 10237	Metallic Materials; Tube Ring Tensile Test—1994 (Supersedes DIN 50138, May 1979 Edition)
DIN 1230 PT 1 (W)	Vitrified Clayware for Sewers; Socket Pipes and Fittings; Dimensions (Intended to be Superseded by DIN EN 295-4, May 1995 Edition)
DIN 1230 PT 2 (W)	Vitrified Clayware for Sewers; Socket Pipes and Fittings; Technical Delivery Conditions
DIN 1230 PT 6 (W)	Clayware for Sewerage; Pipes and Fittings without Sockets; Dimensions (Intended to be Superseded by DIN EN 295-4, May 1995 Edition)
DIN 1230 PT 7 (W)	Clayware for Sewerage; Pipes and Fittings without Sockets; Technical Delivery Conditions
DIN 2353	Compression Fittings and Couplings—1991
DIN 2470 PT 1	Steel Gas Pipelines for Permissible Working Pressures up to 16 Bar; Pipes and Fittings—1987
DIN 2605-2	Steel Butt-Welding Pipe Fittings Part 2: Elbows and Bends for Use at Full Service Pressure—1995
DIN 2605 PT 1	Steel Butt-Welding Pipe Fittings; Elbows and Bends with Reduced Pressure Factor—1991

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
DIN 2609	Steel Butt-Welding Pipe Fittings; Technical Delivery Conditions—1991
DIN 2614	Cement Mortar Linings for Ductile Iron and Steel Pipes and Fittings; Application, Requirements and Testing—1990; Superseded in Part By DIN EN 545, January 1995 Edition
DIN 2615 PT 1	Steel Butt-Welding Pipe Fittings; Tees with Reduced Pressure Factor—1992; Together with DIN 2615 Part 2, May 1992 Edition, Supersedes DIN 2615, June 1964 Edition
DIN 2615 PT 2	Steel Butt-Welding Pipe Fittings; Tees for Use at Full Service Pressure—1992; Together with DIN 2615 Part 1, May 1992 Edition, Supersedes DIN 2615, June 1964 Edition
DIN 2616 PT 1	Steel Butt-Welding Pipe Fittings; Eccentric Reducers with Reduced Pressure Factor—1991
DIN 2616 PT 2	Steel Butt-Welding Pipe Fittings; Reducers for Use at Full Service Pressure—1991
DIN 2617	Steel Butt-Welding Pipe Fittings; Caps—1991
DIN 2618	Butt-Welding Steel Fittings; Welding Saddles; Nominal Pressure 16—1968
DIN 2619	Butt-Welding Steel Fittings; Bends for Welding; Nominal Pressure 16—1968
DIN 2826	Clamp Type Coupling Assemblies for Use with DN 15 to DN 50 Steam and Hot Water Hoses Rated For Pressures up to 18 Bar
DIN 2848	Lined Steel Flanged Pipes and Steel or Cast Iron Flanged Fittings Rated for a Pressure of 10 Bar (PN 10)—1993; Supersedes July Edition and DIN 2848 Parts 10 to 12, January 1982 Editions
DIN 2856	Capillary Solder Fittings; Assembly Dimensions and Testing
DIN 2873	Enamelled Steel Flanged Pipes and Fittings Rated for 10 Bar (PN 10)—1993
DIN 2874	Steel Flanged Pipes and Steel and Cast Iron Flanged Fittings Lined with PTFE or PFA; Technical Delivery Condition—1993
DIN 2875	Steel Flanged Pipes and Flanged Fittings Lined with Soft or Hard Rubber; Technical Delivery Conditions—1993
DIN 2876	Enamelled Steel Flanged Pipes and Fittings; Technical Delivery Conditions—1993
DIN 2950	Malleable Cast Iron Fittings
DIN 2980	Screwed Steel Pipe Fittings—1977

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
DIN 2981	Threaded Steel Pipe Fittings; Fittings with Long Screw Thread—1982
DIN 2982	Screwed Steel Pipe Fittings; Parallel Nipples; Taper Nipples—1977
DIN 2983	Screwed Steel Pipe Fittings; Bends—1977
DIN 2986	Threaded Steel Pipe Fittings; Sockets—1977
DIN 2987 PT 1	Threaded Steel Pipe Fittings; Crosses, Tees, Elbows—1977
DIN 2987 PT 2	Threaded Steel Pipe Fittings; Reducing Tees and Elbows—1977
DIN 2988	Reducing Sockets; Threaded Steel Pipe Fittings—1977
DIN 2990	Threaded Steel Pipe Fittings; Hexagon Nipples; Bushings—1977
DIN 2991	Threaded Steel Pipe Fittings; Plugs, Caps—1977
DIN 2993	Threaded Steel Pipe Fittings; Pipe Unions—1977
DIN 2999 PT 1	Pipe Threads for Tubes and Fittings; Parallel Internal Thread and Taper External Thread; Thread Dimensions—1983
DIN 2999 PT 2	Whitworth Pipe Threads for Tubes and Fittings; Cylindrical Internal Thread and Conical External Thread; Gauging System and Use of Gauges—1973
DIN 2999 PT 3	Whitworth Pipe Threads for Tubes and Fittings; Gauge Dimensions—1973
DIN 2999 PT 4	Pipe Threads for Tubes and Fittings; Sizes for Taper Screw Limit Plug Gauges for Parallel Internal Thread—1986
DIN 2999 PT 5	Whitworth Pipe Threads for Tubes and Fittings; Cylindrical Screw Limit Ring Gauges for Gauging Conical External Threads; Sizes—1973
DIN 2999 PT 6	Whitworth Pipe Threads for Tubes and Fittings; Conical Screw Check Plugs; Sizes—1975
DIN 3871	Male Fittings for Use with Compression Couplings—1995
DIN 3942	Compression Fittings and Couplings; Swivel Type Male Stud Elbows with 24 Degree Cone and O-Ring and with Type W Port as in DIN 3861—1994
DIN 3943	Compression Fittings and Couplings; Swivel Type Male Stud Tees (Stud Branch) with 24 Degree Cone and O-Ring and with Type W Port as in DIN 3861—1994
DIN 3944	Compression Fittings and Couplings; Swivel Type Male Stud Tees (Stud Run) with 24 Degree Cone and O-Ring and with Type W Port as in DIN 3861—1994

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
DIN 3945	Compression Fittings and Couplings; Swivel Type Adaptors with 24 Degree Cone and O-Ring and with Type W Port as in DIN 3861—1994
DIN 4032	Concrete Pipes and Fittings; Dimensions; Technical Conditions of Delivery—1981
DIN 7591	Water Fittings for Domestic Installation; Screwed Unions with Flat Gasket for Hose Connection on Either Side, Designed for Nominal Pressure 10—1981
DIN 7593	Water Fittings for Domestic Installation; Screwed Unions with Flat Gasket for Connection to Copper Tube on Either Side, Designed for Nominal Pressure 10—1981
DIN 8063 PT 1	Pipe Joint Assemblies and Fittings for Unplasticized Polyvinyl Chloride (U-PVC) Pressure Pipelines; Dimensions of Socket Bends—1986
DIN 8063 PT 2	Pipe Joints and Pipe Fittings for Pipes Under Pressure Made of Unplasticized Polyvinyl Chloride (Rigid PVC); Bends Made by Injection Moulding for Bonding; Dimensions—1980
DIN 8063 PT 3	Pipe Joints and Pipe Fittings for Pipes Under Pressure Made of Unplasticized Polyvinyl Chloride (Rigid PVC); Screwed Pipe Joints; Dimensions—1980
DIN 8063 PT 4	Pipe Joint Assemblies and Fittings for Unplasticized Polyvinyl Chloride (PVC-U) Pressure Pipes; Bushings, Flanges, Seals, Dimensions—1983
DIN 8063 PT 5	Pipe Joint Assemblies and Fittings for Unplasticized Polyvinyl Chloride (PVC-U) Pressure Pipes; General Quality Requirements and Testing—1990
DIN 8063 PT 6	Pipe Joints and Pipe Fittings for Pipes Under Pressure Made of Unplasticized Polyvinyl Chloride (Rigid PVC); Injection Moulded Elbows for Bonding; Dimensions—1980
DIN 8063 PT 8	Pipe Joints and Pipe Fittings for Pipes Under Pressure Made of Unplasticized Polyvinyl Chloride (Rigid PVC); Injection Moulded Sockets, Caps and Nipples for Bonding; Dimensions—1980
DIN 8063 PT 11	Pipe Joints and Pipe Fittings for Pipes Under Pressure Made of Unplasticized Polyvinyl Chloride (Rigid PVC); Sockets with Primary Element of Copper-Zinc Alloy (Brass) for Bonding; Dimensions—1980
DIN 8063 PT 12	Pipe Joint Assemblies and Fittings for Unplasticized Polyvinyl Chloride (U-PVC) Pressure Pipelines; Dimensions of Flanged and Socket Fittings—1987
DIN 8076 PT 1	Thermoplastics Pressure Pipelines; Metal Compression Fittings for Polyethylene (PE) Pipes; General Quality Requirements; Testing—1984

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
DIN 8906	PN 40 Flared Flange Solderless Compression Couplings for Use in Refrigerating Systems
DIN 8912	Coupling Nuts and Screwed Plugs for Use with PN 40 Flared Flange Solderless Compression Couplings in Refrigerating Systems
DIN 8914	90 Degree Tapered Seal Rings and Caps for Use with PN 40 Flared Flange Solderless Compression Couplings in Refrigerating Systems
DIN 16450	Nomenclature and Symbols for Fittings for Use with Unplasticized Polyvinyl Chloride (PVC-U) Pressure Pipes—1994
DIN 16451 PT 1	Ductile Iron (GGG) Fittings for Use with Unplasticized Polyvinyl Chloride (PVC-U) Pressure Pipes; Technical Delivery Conditions—1994
DIN 16451 PT 2	Ductile Iron (GGG) Fittings for Use with Unplasticized Polyvinyl Chloride (PVC-U); Pressure Pipes; Dimensions—1994
DIN 16867	Glass Fibre Reinforced Polyester Resin (UP-GF) Pipes, Fittings and Joints for Use in Chemical Pipelines; Technical Delivery Conditions—1982
DIN 16961 PT 1	Thermoplastics Pipes and Fittings with Profiled Outer and Smooth Inner Surfaces; Dimensions—1989
DIN 16961 PT 2	Thermoplastics Pipes and Fittings with Profiled Outer and Smooth Inner Surfaces; Technical Delivery Conditions—1989
DIN 16967 PT 2	Glass Fibre Reinforced Epoxy Resin (EP-GF) Pipe Fittings and Joints; Elbows; Tees; Dimensions—1982
DIN 19522 PT 1	Cast Iron Spigot (SML) Drainpipes and Fittings; Dimensions—1983
DIN 19522 PT 2	Cast Iron Spigot (SML) Drainpipes and Fittings; Technical Delivery Conditions—1983
DIN 19530 PT 1	Steel Socket Pipes and Fittings for Sewers; Dimensions—1983
DIN 19530 PT 2	Steel Socket Pipes and Fittings for Sewers; Technical Delivery Conditions—1983
DIN 19531	Unplasticized Polyvinyl Chloride (PVC-U) Socket Pipes and Fittings for Discharge Systems Inside Buildings; Dimensions and Technical Delivery Conditions—1987
DIN 19535 PT 1	High Density Polyethylene (HDPE) Pipes and Fittings for Hot-Water Resistant Drains and Sewers Inside Buildings; Dimensions—1988 (Together with DIN 19535 Part 2, April 1987 Edition, Supersedes DIN 19535, March 1977 Edition, Withdrawn in January 1986)

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
DIN 19535 PT 2	High Density Polyethylene (HDPE) Pipes and Fittings for Hot-Water Resistant (HT) Drains and Sewers Inside Buildings; Technical Delivery Conditions—1987 (Supersedes Parts of the March 1977 Edition of DIN 19535, Withdrawn in January 1986)
DIN 19537 PT 1	High Density Polyethylene (HDPE) Pipes and Fittings for Drains and Sewers; Dimensions—1983
DIN 19537 PT 2	High Density Polyethylene (HDPE) Pipes and Fittings for Drains and Sewers; Technical Delivery Conditions—1988
DIN 19538	Chlorinated Polyvinyl Chloride (CPVC) Pipes and Fittings with Sockets for Hot Water Resistant (HT) Sanitary Pipework Inside Buildings; Dimensions, Technical Delivery Conditions—1980
DIN 19565 PT 1	Centrifugally Cast and Filled Polyester Resin Glass Fibre Reinforced (UP-GF) Pipes and Fittings for Buried Drains and Sewers; Dimensions and Technical Delivery Conditions—1989; Partially Superseded by DIN EN 1115-3, November 1996 Edition, and DIN EN 1115-5, November 1996 Edition
DIN 19800 PT 1	Asbestos Cement Pipes and Fittings for Pressure Pipelines; Pipes; Dimensions—1973
DIN 19800 PT 3	Asbestos Cement Pipes and Fittings for Pressure Pipelines; Joint Assemblies; Dimensions—1979
DIN 19850-1	Fibre Cement Pipes and Fittings for Drains and Sewers; Part 1: Dimensions of Pipes, Branches and Bends—1996
DIN 24147 PT 1	Fittings for Use in Air Distribution Systems; Overview and Dimensions—1993
DIN 24147 PT 2	Fittings for Use in Air Distribution Systems; Bends
DIN 24147 PT 3	Fittings for Use in Air Distribution Systems; Gusseted Bends
DIN 24147 PT 4	Fittings for Use in Air Distribution Systems; Tapers
DIN 24147 PT 6	Fittings for Use in Air Distribution Systems; 90 Degree and 45 Degree Branches (Tees and Angled Branches)
DIN 24147 PT 7	Fittings for Use in Air Distribution Systems; Reducers with 90 Degree Branch and Crosses (June)
DIN 28600	Ductile Iron Pressure Pipes and Fittings for Gas and Water Pipelines; Technical Delivery Conditions—1983 (Superseded in Part by DIN EN 545, January 1995 Edition, and DIN EN 969, November 1995 Edition)

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
DIN 28603	Ductile Cast Iron Pipes and Fittings; Spigot and Socket Joints; Connecting Dimensions and Masses—1982
DIN 28624	Ductile Iron Collars for Use with Gas and Water Pipes; Dimensions and Mass (Superseded in Part by DIN EN 545, and DIN EN 969, November 1995 Edition)
DIN 28631	Ductile Iron Spigot and Socket Fittings with Branch for Gas and Water Pipelines; Dimensions and Requirements—1996
DIN 28633	Ductile Iron Double Spigot Fittings with Branch for Gas and Water Pipelines; Dimensions and Requirements—1996
DIN 28645	Ductile Iron Double-Flanged Tapers for Use with Gas and Water Pipes; Dimensions and Mass (Superseded in Part by DIN EN 545, January 1995 Edition, and DIN EN 969, November 1995 Edition)
DIN 30670	Polyethylene Coatings for Steel Pipes and Fittings; Requirements and Testing—1991 (Supersedes July 1980 Edition)
DIN 30673	Bitumen Coatings and Linings for Steel Pipes, Fittings and Vessels—1986
DIN 53769 PT 1	Testing of Glass Fibre Reinforced Plastics Pipes; Determination of the Longitudinal Shear Strength of Type B Pipe Fittings—1988
DIN 53769 PT 6	Testing of Glass Fibre Reinforced Plastics Pipes; Testing of Pipes and Fittings Under Pulsating Internal Pressure—1989
DIN 86086	Copper-Nickel Alloy Welding Pipe Fittings; Technical Delivery Conditions—1990
DIN EN 295-4	Vitrified Clay Pipes and Fittings and Pipe Joints for Drains and Sewers; Requirements for Special Fittings, Adaptors and Compatible Accessories—1995 (Intended to Supersede DIN 1230 PT 1 and DIN 1230 PT 6, February 1992 Editions)
DIN EN 295-6	Vitrified Clay Pipes and Fittings and Pipe Joints for Drains and Sewers; Requirements for Vitrified Clay Manholes—1995 (Supersedes DIN 1230 PT 9, November 1990 Edition)
DIN EN 295-7	Vitrified Clay Pipes and Fittings and Pipe Joints for Drains and Sewers; Requirements for Vitrified Clay Pipes and Joints for Pipe Jacking—1995
DIN EN 295 PT 5	Vitrified Clay Pipes and Fittings and Pipe Joints for Drains and Sewers; Requirements for Perforated Vitrified Clay Pipes and Fittings—1994

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
DIN EN 545	Ductile Iron Pipes, Fittings, Accessories and Their Joints for Water Pipelines; Requirements and Test Methods—1995 (Supersedes Parts of DIN 2614, February 1990 Edition, DIN 28600 and DIN 28610 PT 1 January 1983 Editions, DIN 28614, DIN 28615 PT 1, DIN 28615 PT 2, DIN 28622, DIN 28623, DIN 28624, DIN 28625, DIN 28626, DIN 28628, DIN 28629, DIN 28630, DIN 28632, DIN 28634, DIN 28637, DIN 28638)
DIN EN 578	Plastics Piping Systems; Plastics Pipes and Fittings; Determination of the Opacity—1993
DIN EN 588-1	Fibre-Cement Pipes for Drains and Sewers; Pipes, Joints and Fittings for Gravity Systems—1996
DIN EN 598	Ductile Iron Pipes, Fittings, Accessories and Their Joints in Sewerage Applications; Requirements and Test Methods—1994 (Supersedes DIN 19690, DIN 19691, DIN 19692 PT 1, and DIN 19692 PT 2, July 1978 Editions)
DIN EN 607	PVC-U Eaves Gutters and Fittings; Definitions, Requirements and Testing—1995 (Supersedes DIN 18469 May 1988 Edition)
DIN EN 639	Requirements for Concrete Pressure Pipes Including Joints and Fittings—1994 (Together with DIN EN 640, December 1994 Edition, Supersedes DIN 4035, July 1990 Edition)
DIN EN 640	Reinforced Concrete Pressure Pipes and Distributed Reinforcement Concrete Pressure Pipes (Non-Cylinder Type), Including Joints and Fittings—1994 (Together with DIN EN 639, December 1994 Edition, Supersedes DIN 4035, July 1990 Edition)
DIN EN 641	Reinforced Concrete Pressure Pipes, Cylinder Type, Including Joints and Fittings—1994
DIN EN 642	Prestressed Concrete Pressure Pipes, Cylinder and Non-Cylinder Types, Including Joints, Fittings and Specific Requirements for Prestressing Steel for Pipes—1994
DIN EN 705	Glass-Reinforced Thermosetting Plastics (GRP) Pipes and Fittings; Methods for Regression Analyses and Their Use—1994
DIN EN 713	Mechanical Joints Between Fittings and Polyolefin Pressure Pipes; Test Method for Leaktightness Under Internal Pressure of Assemblies Subjected to Bending—1994
DIN EN 714	Not End-Loadbearing Elastomeric Sealing Ring Type Joints Between Thermoplastic Pressure Pipes and Fittings; Test Method for Leaktightness Under Internal Hydrostatic Pressure without End Thrust—1994

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
DIN EN 715	End-Load Bearing Joints Between Small Diameter Thermoplastics Pressure Pipes and Fittings; Test Method for Leaktightness Under Internal Water Pressure, Including End Thrust—1994
DIN EN 723	Combustion Method for Determination of Carbon on the Inner Surface of Copper Tubes or Fittings—1996
DIN EN 727	Thermoplastics Pipes and Fittings; Determination of Vicat Softening Temperature (VST)—1995
DIN EN 728	Plastics Piping and Ducting Systems; Polyolefin Pipes and Fittings; Determination of Oxidation Induction Time—1997
DIN EN 763	Injection-Moulded Thermoplastics Pipe Fittings; Test Method for Visually Assessing Effects of Heating—1994
DIN EN 802	Injection-Moulded Thermoplastics Fittings for Pressure Piping Systems; Test Method for Maximum Deformation by Crushing—1994
DIN EN 803	Injection-Moulded Thermoplastics Fittings for Elastic Sealing Ring Type Joints for Pressure Piping; Test Method for Resistance to a Short-Term Internal Pressure without End Thrust—1994
DIN EN 804	Injection-Moulded Plastics Socket Fittings for Solvent-Cemented Joints for Pressure Piping; Test Method for Resistance to a Short-Term Internal Hydrostatic Pressure—1994
DIN EN 922	Unplasticized Polyvinyl Chloride (PVC-U) Pipes and Fittings; Specimen Preparation for Determination of the Viscosity Number and Calculation of the K-Value—1995
DIN EN 969	Ductile Iron Pipes, Fittings, Accessories and Their Joints for Gas Pipelines; Requirements and Test Methods—1995 (Supersedes DIN 28610 PT 2, January 1983 Edition, and Parts of DIN 28600 and DIN 28610 PT 1, January 1983 Editions, DIN 28614, DIN 28615 PT 1, DIN 28615 PT 2, DIN 28622, DIN 28623, DIN 28624, DIN 28625, DIN 28626, DIN 28628, DIN 28629, DIN 28630, DIN 28632, DIN 28634, DIN 28637)
DIN EN 1056	Plastic Pipe and Fittings; Method for Exposure to Direct (Natural) Weathering—1996
DIN EN 1115-3	Piping Systems for Underground Drainage and Sewerage Under Pressure Made of Glass-Reinforced Thermosetting Plastics (GRP) Based on Unsaturated Polyester (UP) Resin; Fittings—1996; Supersedes Parts of DIN 19565-1, March 1989 Edition

TABLE E10.D1 DIN Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
DIN EN 1119	Joints for Glass-Reinforced Thermosetting Plastics (GRP) Pipes and Fittings; Testing for Leaktightness and Resistance to Damage of Flexible and Reduced-Articulation Joints—1996
DIN EN 1120	Glass-Reinforced Thermosetting Plastics (GRP) Pipes and Fittings Determination of the Resistance to Chemical Attack from the Inside of a Section in a Deflected Condition—1996
DIN EN 1229	Glass-Reinforced Thermosetting Plastics (GRP) Pipes and Fittings; Test Methods to Prove the Leaktightness of the Wall Under Short-Term Internal Pressure—1996
DIN LN 29855	Fitting Assembly, Ring Locked, for Solderless Pipe Fittings with Coupling Sleeves; Flareless; Complete Fitting—1974
DIN LN 29856	Unions, Ring Locked for Solderless Pipe Fittings with Coupling Sleeves; Flareless—1974
DIN LN 29859	Unions, Ring Locked for Solderless Pipe Fittings with Coupling Sleeves; Flareless; Directions for Installation—1974
DIN 16962 PT 4	Pipe Joint Assemblies and Fittings for Types 1 and 2 Polypropylene (PP) Pressure Pipes; Adaptors for Fusion Jointing, Flanges and Sealing Elements; Dimensions—1988
DIN 16963 PT 4	Pipe Joint Assemblies and Fittings for High-Density Polyethylene (PE-HD) Pressure Pipes; Adaptors for Fusion Jointing, Flanges and Sealing Elements; Dimensions—1988
DIN 16966 PT 6	Glass Fibre Reinforced Polyester Resin (UP-GF) Pipe Fittings and Joint Assemblies; Collars, Flanges, Joint Rings, Dimensions

TABLE E10.D2 DIN Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets

Numbers	Title
DIN 2500	Flanges; General Information; Survey—1966
DIN 2501 PT 1	Flanges; Mating Dimensions—1972
DIN 2505 (D)	Flanged Joint Calculation January
DIN 2512	Flanges; Tongue and Groove; Nominal Pressures 10 to 160; Design Sizes; Rings—1975
DIN 2513	Flanges; Projection and Recess; Nominal Pressures 10 to 100; Design Dimensions—1966
DIN 2514	Flanges; Projection with Groove and Recess; Nominal Pressures 10 to 40; Design Dimensions—1975
DIN 2519	Steel Flanges; Technical Conditions of Delivery—1966
DIN 2526	Flanges; Types of Contact Surfaces—1975
DIN 2527	Blank Flanges; Nominal Pressure 6 to 100—1972
DIN 2528	Steel Flanges; Technical Delivery Conditions—1991
DIN 2543	Cast Steel Flanges; Nominal Pressure 16—1977
DIN 2558	Plain Face Oval Screwed Flanges; Nominal Pressure 6—1975
DIN 2561	Oval Screwed Flanges with Socket; Nominal Pressure 10 and 16—1975
DIN 2566	Screwed Flanges with Socket; Nominal Pressure 10 and 16—1975
DIN 2573	Plain Face Flanges for Brazing or Welding; Nominal Pressure 6—1975
DIN 2576	Flanges, Slip-on Type for Brazing or Welding; Nominal Pressure 10—1975
DIN 2627	Welding Neck Flanges; Nominal Pressure 400—1975
DIN 2628	Welding Neck Flanges; Nominal Pressure 250—1975
DIN 2629	Welding Neck Flanges; Nominal Pressure 320—1975
DIN 2630	Welding Neck Flanges; Nominal Pressure 1 and 2.5—1975
DIN 2631	Welding Neck Flanges; Nominal Pressure 6—1975
DIN 2632	Welding Neck Flanges; Nominal Pressure 10—1975
DIN 2633	Welding Neck Flanges; Nominal Pressure 16—1975
DIN 2634	Welding Neck Flanges; Nominal Pressure 25—1975
DIN 2635	Welding Neck Flanges; Nominal Pressure 40—1975
DIN 2636	Welding Neck Flanges; Nominal Pressure 64—1975
DIN 2637	Welding Neck Flanges; Nominal Pressure 100—1975
DIN 2638	Welding Neck Flanges; Nominal Pressure 160—1975
DIN 2641	Lapped Flanges; Welding Neck Flanges; Plain Collars; Nominal Pressure 6—1975
DIN 2642	Slip-on Flanges; Upturned Welding Flanges; Plain Collars; Nominal Pressure 10—1975

TABLE E10.D2 DIN Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets
(Continued)

Numbers	Title
DIN 2655	Lapped Flanges; Plain Collars; Nominal Pressure 25—1975
DIN 2656	Lapped Flanges; Plain Collars; Nominal Pressure 40—1975
DIN 2673	Loose Flanges with Welding Neck; Nominal Pressure 10—1962
DIN 2693	Sealing Rings for Flanges with Groove; Nominal Pressures from 10 to 40—1967
DIN 2695	Diaphragm Packings and Diaphragm Weld Seals for Flanged Connections; Nominal Pressure 64 to 400
DIN 3337	Connections for Part-Turn Valve Actuator Attachment; Dimensions of Driving Components and Flanges—1985
DIN 6352 PT 1	Chuck Backplates with 1:4 Locating Taper; Basic Flanges—1968
DIN 8063 PT 4	Pipe Joint Assemblies and Fittings for Unplasticized Polyvinyl Chloride (PVC-U) Pressure Pipes; Bushings, Flanges, Seals; Dimensions—1983
DIN 16872	Glass Fibre Reinforced Polyester Resin (UP-GRP) Flanges; for Use for Thermoplastics Pipe Fittings; Dimensions—1993
DIN 16962 PT 4	Pipe Joint Assemblies and Fittings for Types 1 and 2 Polypropylene (PP) Pressure Pipes; Adaptors for Fusion Jointing, Flanges and Sealing Elements; Dimensions—1988
DIN 16962 PT 12	Pipe Joints and Elements for Polypropylene (PP) Pressure Pipelines; Types 1 and 2; Bushes, Flanges and Seals for Socket-Welding; Dimensions—1980
DIN 16963 PT 4	Pipe Joint Assemblies and Fittings for High-Density Polyethylene (PE-HD) Pressure Pipes; Adaptors for Fusion Jointing, Flanges and Sealing Elements; Dimensions—1988
DIN 16963 PT 11	Pipe Joints and Elements for High Density Polyethylene (HDPE) Pressure Pipelines; Types 1 and 2; Bushes, Flanges and Seals for Socket-Welding; Dimensions—1980
DIN 16966-7	Glass Fibre Reinforced Polyester Resin (UP-GRP) Pipe Fittings and Joint Assemblies; Requirements for and Testing of Bushes, Flanges, and Flanged and Laminated Joints—1995
DIN 16966 PT 6	Glass Fibre Reinforced Polyester Resin (UP-GF) Pipe Fittings and Joint Assemblies; Collars, Flanges, Joint Rings, Dimensions—1982
DIN 28031	Flanges for Welding for Use on Unalloyed and Stainless Steel Vessels Not Subject to Pressure—1989

TABLE E10.D2 DIN Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets
(Continued)

Numbers	Title
DIN 28032	Flanges for Welding for Use on Unalloyed Steel Pressure Vessels—1989
DIN 28034	Weld-Neck Flanges for Use on Unalloyed Steel Pressure Vessels—1989
DIN 28036	Flanges for Welding for Use on Stainless Steel Pressure Vessels—1989
DIN 28038	Flanges for Welding, with Cylindrical Hub, for Use on Stainless Steel Pressure Vessels—1989
DIN 28117	PN 10 to PN 40 Loose Flanges—1990
DIN 28122	Blank Flanges with Stainless Steel Facing, of Nominal Sizes DN 125 to DN 500 and Rated for Nominal Pressures PN 10 to PN 40—1987
DIN 28141	Connecting Flanges for Unalloyed and Stainless Steel Mixing Vessels for Use in Process Engineering—1992
DIN 28404	Vacuum Technology; Flanges; Dimensions—1984
DIN 28614	Ductile Iron Pipes with Cast-On Flanges for Use with Gas and Water Pipelines; Dimensions and Mass—1990 (Superseded in Part by DIN EN 545, January 1995 Edition, and DIN EN 969, November 1995 Edition)
DIN 28615 PT 1	Ductile Iron Pipes with Welded-On Flanges for Use With Gas and Water Pipelines; Dimensions and Mass—1990 (Together with the January 1990 Edition of DIN 28615 Part 2, Supersedes the March 1976 Edition of DIN 28615) (Superseded in Part by DIN EN 545, January 1995 Edition, and DIN EN 969, November 1995 Edition)
DIN 28615 PT 2	Ductile Iron Pipes with Screwed-On Flanges for Use With Gas and Water Pipelines; Dimensions and Mass—1990 (Together with the January 1990 Edition of DIN 28615 Part 1, Supersedes the March 1976 Edition of DIN 28615) (Superseded in Part by DIN EN 545, January 1995 Edition, and DIN EN 969, November 1995 Edition)
DIN 28646	Ductile Iron Blank Flanges for Use with Gas and Water Pipes; Dimensions and Mass—1990 (Superseded in Part by DIN EN 545, January 1995 Edition, and DIN EN 969, November 1995 Edition)
DIN 86037 PT 1	Loose Flanges and Welded Stub Ends for Pipes of Forged Copper Alloys; Nominal Pressures 10, 16 and 25; Summary—1978
DIN 86037 PT 2	Loose Flanges and Welded Stub Ends for Pipes of Forged Copper Alloys; Nominal Pressures 10, 16 and 25; Welded Stub Ends—1978
DIN 86037 PT 3	Loose Flanges and Welded Stub Ends for Pipes of Forged Copper Alloys; Nominal Pressures 10, 16 and 25; Loose Flanges—1978

TABLE E10.D2 DIN Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets
(Continued)

Numbers	Title
DIN 86041 PT 1	Welding Flanges for Tanks and Sea Boxes; Nominal Pressure 10 and 16—1976
DIN 86041 PT 2	Welding Flanges for Outboard Connections; Nominal Pressure 10, 16, 40, 160—1977
DIN 86042	Dummy Hole Plates (Spectacle Flanges); Mating Dimensions According to Nominal Pressure 10 and 16—1978
DIN 13 PT 13	ISO Metric Screw Threads; Selected Sizes for Screws, Bolts and Nuts from 1 to 52 mm Screw Thread Diameter and Limits of Sizes—1983
DIN 13 PT 51	ISO Metric Screw Threads; External Threads for Transition Fits; Tolerances, Limit Deviations, Limits of Size
DIN 74 PT 3	Counterbores (Holes) for Hexagon Bolts and Nuts—1991
DIN 103 PT 7	ISO Metric Trapezoidal Screw Threads; Limiting Sizes for Bolt Threads from 8 to 100 mm Nominal Diameter
DIN 103 PT 8	ISO Metric Trapezoidal Screw Threads; Limiting Sizes for Bolt Threads from 105 to 300 mm Nominal Diameter
DIN 125 PT 1	Product Grade A Washers with a Hardness up to 250 HV Designed for Use with Hexagon Head Bolts and Nuts—1990
DIN 125 PT 2	Product Grade A Washers with a Hardness up to 300 HV Designed for Use with Hexagon Head Bolts and Nuts—1990
DIN 126	Product Grade C Washers; Designed for Use with Hexagon Head Bolts and Nuts—1990
DIN 186	T-Head Bolts with Square Neck—1988
DIN 188	T-Head Bolts with Double Nib—1987
DIN 261	T-Head Bolts—1987
DIN 267 PT 3	Fasteners; Technical Delivery Conditions; Property Classes for Carbon Steel and Alloy Steel Bolts and Screws; Conversion of Property Classes—1983
DIN 267 PT 12	Bolts, Screws, Nuts and Similar Threaded and Formed Parts; Technical Conditions of Delivery; Self-Tapping Screws
DIN 267 PT 25 (P)	Fasteners; Technical Delivery Conditions; Torsion Testing of M 1 to M 10 Bolts and Screws—1984
DIN 267 PT 27	Fasteners; Adhesive-Coated Steel Screws, Bolts and Studs; Technical Delivery Conditions—1990
DIN 267 PT 28	Fasteners; Steel-Screws, Bolts and Studs with Locking Coating; Technical Delivery Conditions—1990

TABLE E10.B2 DIN Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets
(Continued)

Numbers	Title
DIN 478	Square Head Bolts with Collar—1985
DIN 479	Square Head Bolts with Short Dog Point—1985
DIN 480	Square Head Bolts with Collar and Oval Half Dog Point—1985
DIN 522	Metal Washers; Technical Delivery Conditions
DIN 603	Mushroom Head Square Neck Bolts—1981
DIN 604	Flat Countersunk Nib Bolts—1981
DIN 605	Flat Countersunk Square Neck Bolts with Long Square—1981
DIN 607	Cup Head Nib Bolts—1981
DIN 608	Flat Countersunk Square Neck Bolts with Short Square—1981
DIN 609	Hexagon Fit Bolts—1995
DIN 610	Hexagon Fit Bolts with Short Threaded Dog Point
DIN 649	T-Slots for T-Head Bolts—1987
DIN 787	Tee Bolts May; ISO 299: 1987—1991
DIN 797	Special Foundation Bolts—1970
DIN 798	Special Foundation Nuts for Special Foundation Bolts According to DIN 797
DIN 931 PT 2	M 42 to M 160x6 Hexagon Head Bolts; Product Grade B—1987
DIN 931 SUPPL. 1	Hexagon Head Bolts with Shank; Masses—1986
DIN 974 PT 2	Diameters of Counterbores (Holes) for Hexagon Bolts and Nuts—1991
DIN 976-1	Metric Thread Stud Bolts—1995
DIN 976-2	Metric Interference-Fit Thread Stud Bolts—1995
DIN 1441	Washers; Type Coarse for Bolts—1974
DIN 2507	Bolts, Screws and Nuts for Pipelines—1986
DIN 2510 PT 3	Bolted Connections with Reduced Shank; Stud-Bolts—1971
DIN 6921	Hexagon Flange Bolts
DIN 6922	Hexagon Flange Bolts with Reduced Shank
DIN 7349	Plain Washers for Bolts with Heavy Clamping Sleeves—1974
DIN 7500-1	Thread Rolling Screws for ISO Metric Screw Thread; Dimensions, Requirements and Testing
DIN 7992	T-Head Bolts with Large Head—1970
DIN 17111	Low Carbon Unalloyed Steels for Bolts, Nuts and Rivets; Technical Conditions of Delivery—1980
DIN 17240	Heat Resisting and Highly Heat Resisting Materials for Bolts and Nuts; Quality Specifications—1976

TABLE E10.B2 DIN Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets
(Continued)

Numbers	Title
DIN EN 20225	Fasteners Bolts, Screws, Studs and Nuts; Symbols and Designations for Dimensioning (ISO 225: 1983)—1992 (Supersedes DIN ISO 225, January 1984 Edition)
DIN EN 20273	Fasteners; Clearance Holes for Bolts and Screws (ISO 273: 1979) (Supersedes DIN ISO 273, September 1979 Edition)—1992
DIN EN 20898-7	Mechanical Properties of Fasteners; Torsional Test and Minimum Torques for Bolts and Screws with Nominal Diameters 1 mm to 10 mm (ISO 898-7: 1992)—1995
DIN EN 20898 PT 1	Mechanical Properties of Fasteners; Bolts, Screws and Studs (ISO 898-1: 1988)—1992 (Supersedes DIN ISO 898 Part 1, January 1989 Edition)
DIN EN 24014	Hexagon Head Bolts; Product Grades A and B; (ISO 4014: 1988)—1992 Supersedes DIN 931 Part 1, September 1987 Edition, and DIN ISO 4014, September 1989 Edition)
DIN EN 24015	Hexagon Head Bolts with Reduced Shank; (Shank Diameter = Pitch Diameter; Product Grade B (ISO 4015: 1979)—1991
DIN EN 24016	Hexagon Head Bolts Product Grade C (ISO 4016: 1988)—1992 (Supersedes DIN 601 September 1987 Edition, and DIN ISO 4016, October 1989 Edition)
DIN EN 26157 PT 1	Fasteners; Surface Discontinuities; Bolts, Screws and Studs Subject to General Requirements (ISO 6157-1: 1988)—1991 (Together with the December 1991 Edition of DIN EN 26157 Part 3, Supersedes October 1984 Edition of DIN 267 Part 19)
DIN EN 26157 PT 3	Fasteners; Surface Discontinuities; Bolts, Screws and Studs Subject to Special Requirements (ISO 6157-3: 1988)—1991 (Together with the December 1991 Edition of DIN EN 26157 Part 1, Supersedes October 1984 Edition of DIN 267 Part 19)
DIN EN 28765	Hexagon Head Bolts with Metric Fine Pitch Thread; Product Grades A and B (ISO 8765: 1988)—1992 (Supersedes DIN 960, January 1990 Edition, and DIN ISO 8765, January 1990 Edition)
DIN EN 28839	Mechanical Properties of Fasteners; Nonferrous Metal Bolts, Screws, Studs and Nuts (ISO 8839: 1986)—1991 (Supersedes February 1981 Edition of DIN 267 Part 18)
DIN LN 29962	Bolts and Accessories; Additional Procurement Data for Special Designs and Arrangement of Code Letters in Characteristic Blocks—1976
DIN LN 65010 PT 1	Specification for Screws and Bolts of Unalloyed and Low-Alloy Steel with Minimum Tensile Strength up to 900N/mm ² —1968

TABLE E10.D2 DIN Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets
(Continued)

Numbers	Title
DIN LN 65010 PT 2	Specification for Screws and Bolts of Unalloyed and Low-Alloy Steel with Minimum Tensile Strength up to 900N/mm ² , Minimum Ultimate Tensile Loads, Proof Loads—1968
DIN LN 65018 PT 1	Manufacturer's Acceptance Certificate for Screws and Bolts—1968
DIN LN 65019	Bolts, Countersunk Head with TORQ-Set Recess—1977
DIN 2696	Lenticular Gaskets and Lenticular Seals for ND 64 to ND 400 Flanged Connections—1972
DIN 2698	Corrugated Steel Sheet Gaskets Incorporating Asbestos Ropes for ND 25 to ND 250 Flanged Connections—1972
DIN 3535 PT 6	Synthetic Fibre and Graphite Based Gasket Materials for Use with Gas Valves, Gas Appliances and Gas Pipework
DIN 7603	Ring Seals and Gaskets—1994
DIN 8914	90 Degree Tapered Seal Rings and Caps for Use with PN 40 Flared Flange Solderless Compression Couplings in Refrigerating Systems
DIN 28040	Gaskets for Use with Flanged Joints—1989
DIN 28090-1	Static Seals for Flanged Connections; Characteristic Values and Test Methods
DIN 28090-2	Static Seals for Flanged Connections; In-Process Testing of Sheet Gasket Materials
DIN 28090-3	Static Seals for Flanged Connections; Chemical Resistance of Sheet Gasket Materials
DIN 87107	Gaskets for Non-Return Flaps in Accordance with DIN 87101—1975
DIN EN 1514-1	Flanges and Their Joints Dimensions of Gaskets for PN-Designated Flanges Part 1: Non-Metallic Flat Gaskets with or without Inserts August; Supersedes DIN EN 2690 and DIN 2692 May 1966 and DIN 2691 November 1971—1997
DIN EN 1514-2	Flanges and Their Joints Dimensions of Gaskets for PN-Designated Flanges Part 2: Spiral Wound Gaskets for Use with Steel Flanges—1997
DIN EN 1514-3	Flanges and Their Joints Dimensions of Gaskets for PN-Designated Flanges Part 3: Non-Metallic PTFE Envelope Gaskets—1997
DIN EN 1514-4	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—1997

TABLE E10.D3 DIN Standards and Specifications for Valves

Numbers	Title
DIN 475 PT 1	Widths Across Flats for Bolts, Screws, Valves and Fittings—1984
DIN 477 PT 1	Gas Cylinder Valves Rated for Test Pressures up to 300 Bar; Types, Sizes and Outlets—1990; Superseded in Part by DIN EN 629-1—August 1996 Edition
DIN 477 PT 5	Gas Cylinder Valves Rated for Test Pressures up to 450 Bar; Types, Sizes and Outlets—1990
DIN 1690 PT 10	Technical Delivery Conditions for Castings of Metallic Materials; Supplementary Requirements for Steel Castings Used for Heavy-Duty Valves—1991
DIN 1997 PT 1	Shut-Off Valves for Site Drainage Systems; Backflow Gates for Non-Faecal Sewage; Requirements, Design Principles and Materials—1984
DIN 1997 PT 2	Shut-Off Valves for Site Drainage Systems; Backflow Gates for Non-Faecal Sewage; Testing—1984
DIN 3158	Valves for Use in Refrigerating Systems; Safety Requirements, Testing and Marking—1987
DIN 3202 PT 2	End-To-End and Centre-To-End Dimensions of Valves; Weld-On Valves—1982
DIN 3202 PT 4	Face-To-Face and Centre-To-Face Dimensions of Valves; Valves With Female Thread Connection—1982
DIN 3202 PT 5	Face-To-Face and Centre-To-Face Dimensions of Valves; Valves for Connection With Compression Couplings—1984
DIN 3230 PT 1	Technical Conditions of Delivery for Valves; Enquiry, Order and Delivery—1974
DIN 3230 PT 2	Technical Conditions of Delivery for Valves; General Requirements—1974
DIN 3230 PT 3	Technical Delivery Conditions for Valves; Compilation of Test Methods—1982
DIN 3230 PT 4	Technical Conditions of Delivery for Valves; Valves for Potable Water Service; Requirements and Testing—1977
DIN 3230 PT 5	Technical Delivery Conditions; Valves for Gas Installations and Gas Pipelines; Requirements and Testing—1984
DIN 3230 PT 6	Technical Delivery Conditions for Valves; Requirements and Methods of Test for Valves for Use with Flammable Liquids—1987
DIN 3239 PT 2	Weld-On Ends of Valves for Socket Welding—1978
DIN 3266 PT 1	Valves for Drinking Water Installations on Private Premises; PN 10 Pipe Interrupters, Pipe Disconnectors, Anti-Vacuum Valves—1986

TABLE E10.D3 DIN Standards and Specifications for Valves (*Continued*)

Numbers	Title
DIN 3266 PT 2	Valves for Drinking Water Installations on Private Premises; PN 10 Pipe Interrupters, Pipe Disconnectors, Anti-Vacuum Valves; Testing—1987
DIN 3339	Valves; Body Component Materials—1984
DIN 3352 PT 1	Gate Valves; General Information—1979
DIN 3352 PT 2	Cast Iron Gate Valves with Metallic Seat and Inside Screw Stem—1988
DIN 3352 PT 3	Cast Iron Gate Valves with Metallic Seat and Outside Screw Stem—1988
DIN 3352 PT 4	Cast Iron Gate Valves with Elastomeric Obturator Seatings and Inside Screw Stem—1986
DIN 3352 PT 6	Gate Valves of Unalloyed and Low-Alloyed Steel with Internal Stem Thread—1979
DIN 3352 PT 7	Gate Valves of Unalloyed and Low-Alloyed Steel with External Stem Thread—1979
DIN 3352 PT 9	Gate Valves of Heat-Resistant Steel—1979
DIN 3352 PT 10	Gate Valves of Stainless Steel—1979
DIN 3352 PT 11	Flanged Copper Alloy Gate Valves—1981
DIN 3352 PT 12	Socket End Copper Alloy Gate Valves—1981
DIN 3352 PT 13	Double-Socket Cast Iron Gate Valves with Elastomeric Obturator Seat and Inside Screw Stem—1987
DIN 3354 PT 1	Butterfly Valves; General Data
DIN 3354 PT 2	Butterfly Valves; Soft Material Seat Seal Cast Iron Tight Butterfly Shutoff Valves with Flanged Ends
DIN 3354 PT 3	Butterfly Valves; Soft Material Seat Seal Steel or Cast Steel Tight Butterfly Shutoff Valves with Flanged Ends or Weld-on-Ends
DIN 3354 PT 4	Butterfly Valves; Metallic Seat Seal Steel or Cast Steel Tight Butterfly Shutoff Valves with Flanged Ends or Weld-on Ends
DIN 3356 PT 1	Globe Valves; General Data—1982
DIN 3356 PT 2	Globe Valves; Cast Iron Stop Valves—1982
DIN 3356 PT 3	Globe Valves; Unalloyed Steel Stop Valves—1982
DIN 3356 PT 4	Globe Valves; High Temperature Steel Stop Valves—1982
DIN 3356 PT 5	Globe Valves; Stainless Steel Stop Valves—1982
DIN 3357 PT 1	Metal Ball Valves; General Requirements and Methods of Test—1989
DIN 3357 PT 2	Full Bore Steel Ball Valves—1981
DIN 3357 PT 3	Reduced Bore Steel Ball Valves—1981

TABLE E10.D3 DIN Standards and Specifications for Valves (*Continued*)

Numbers	Title
DIN 3357 PT 4	Full Bore Nonferrous Metal Ball Valves—1981
DIN 3357 PT 5	Reduced Bore Nonferrous Metal Ball Valves—1981
DIN 3357 PT 6	Full Bore Cast Iron Ball Valves
DIN 3357 PT 7	Reduced Bore Cast Iron Ball Valves
DIN 3381	Safety Devices for Gas Supply Installations Operating at Working Pressures up to 100 Bar; Pressure Relief Governors and Safety Shut-Off Devices
DIN 3399	Gas Low-Pressure Cut-Off Valves; Safety Requirements, Testing—1986
DIN 3441 PT 1	Unplasticized Polyvinyl Chloride (PVC-U) Valves; Requirements and Testing—1989
DIN 3441 PT 2	Unplasticized Polyvinyl Chloride (PVC-U) Valves; Ball Valves; Dimensions—1984
DIN 3441 PT 3	Unplasticized Polyvinyl Chloride (PVC-U) Valves; Diaphragm Valves; Dimensions—1984
DIN 3441 PT 4	Valves of Rigid PVC (Unplasticized or Rigid Polyvinyl Chloride); Y-Valves (Inclined-Seat Valves), Dimensions—1978
DIN 3441 PT 5	Unplasticized Polyvinyl Chloride (PVC-U) Valves; PN 6 and PN 10 Wafer Type Butterfly Valves; Dimensions—1984
DIN 3441 PT 6	Unplasticized Polyvinyl Chloride (UPVC) Valves; Gate Valves with Inside Screw Stem Dimensions—1988
DIN 3442 PT 1	Polypropylene (PP) Valves; Requirements and Testing—1987
DIN 3442 PT 2	Fittings of PP (Polypropylene); Ball Valves; Dimensions—1980
DIN 3442 PT 3	Polypropylene (PP) Valves; Diaphragm Valves; Dimensions—1987
DIN 3475	Spheroidal Graphite Cast Iron Valves and Fittings Provided with Internal Corrosion Protection by means of Enamelling, for Use in Drinking Water Supply Systems; Requirements and Testing—1993
DIN 3476	Corrosion Protection of Water Valves and Pipe Fittings by Epoxy Powder or Liquid Epoxy Resin Linings; Requirements and Testing—1996
DIN 3500	PN 10 Piston Type Gate Valves for Use in Drinking Water Supply Systems—1990
DIN 3502	Stop Valves for Drinking Water Supplies on and in Private Property; Straight Pattern Globe Valves with Oblique Bonnet, Rated for Nominal Pressure PN 10—1985

TABLE E10.D3 DIN Standards and Specifications for Valves (*Continued*)

Numbers	Title
DIN 3512	Stop Valves for Drinking Water Supplies on and in Private Property; Straight Pattern Globe Valves with Vertical Bonnet, Rated for Nominal Pressure PN 10—1985
DIN 3535 PT 5	Rubber/Cork and Rubber/Cork Synthetic Fibre Based Gasket Materials for Use With Gas Valves, Gas Appliances and Gas Pipework; Safety Requirements and Testing—1993
DIN 3535 PT 6	Synthetic Fibre and Graphite Based Gasket Materials for Use with Gas Valves, Gas Appliances and Gas Pipework—1994
DIN 3536	Lubricants for Gas Valves and Controls; Requirements, Testing—1982, Superseded in Parts By EN 377
DIN 3537 PT 3	Gas Stop Valves Rated for Pressures up to 4 Bar; Requirements and Acceptance Testing for Laboratory Valves—1992
DIN 3543 PT 1	Metal Tapping Valves; Requirements, Testing—1984
DIN 3543 PT 4	High Density Polyethylene (HDPE) Tapping Valves for HDPE Pipes; Dimensions—1984
DIN 3544 PT 1	High Density Polyethylene (HDPE) Valves; Tapping Valves; Requirements and Test—1985
DIN 3840	Valve Bodies; Strength Calculation in Respect of Internal Pressure
DIN 3852 PT 1 (S)	Stud Ends and Tapped Holes with Metric Fine Pitch Thread, for Use with Compression Couplings, Valves and Screw Plugs; Dimensions—1992: Superseded in Part by DIN 3852 Part 11, May 1994 Edition
DIN 3852 PT 2 (S)	Stud Ends and Tapped Holes with Pipe Thread, for Use with Compression Couplings, Valves and Screw Plugs; Dimensions—1991: (Superseded in Part by DIN 3852 Part 11, May 1994 Edition)
DIN 3852 PT 3	Type F Stud Ends and Type W Tapped Holes with Metric Fine Pitch Thread, for Use with Compression Couplings, Valves and Screw Plugs, Sealed by O-Ring; Dimensions
DIN 3852 PT 11	Stud Ends and Tapped Holes for Use with Compression Couplings; Valves and Screw Plugs Type E Stud End Dimensions—1994; Supersedes Parts of DIN 3852 Part 1, February 1992 Edition, and DIN 3852 Part 2, November 1991 Edition
DIN 17480	Valve Materials; Technical Delivery Conditions (May)
DIN 19208	Flow Measurement; Mating Dimensions and Application of Shut-Off Valves for Differential Pressure Transducers and Differential Pressure Piping—1988

TABLE E10.D3 DIN Standards and Specifications for Valves (*Continued*)

Numbers	Title
DIN 19578 PT 1	Stop Valves for Site Drainage Systems; Anti-Flooding Valves for Faecal Sewage Systems; Requirements—1988
DIN 19578 PT 2	Stop Valves for Site Drainage Systems; Anti-Flooding Valves for Faecal Sewage Systems; Testing and Inspection—1988
DIN 30677 PT 1	External Corrosion Protection of Buried Valves; Normal Duty Coatings—1991
DIN 30677 PT 2	External Corrosion Protection of Buried Valves; Heavy-Duty Thermoset Plastics Coatings—1988
DIN 32509	Hand-Operated Shut-Off Valves for Welding, Cutting and Allied Processes; Designs, Safety Requirements, Testing—1985
DIN 42560	Transformers; Throttle-Valves NW 80; Dimensions; Tightness Testing—1971
DIN 45635 PT 50	Measurement of Noise Emitted by Machines; Airborne Noise Measurement, Enveloping Surface Method; Valves—1987
DIN 74279	Compressed-Air Braking Systems; Overflow Valves—1977
DIN 86500	Valves and Gate Valves with Screwed Connections; Survey of Types for Shipbuilding—1968
DIN 86501	Gunmetal Screwed-Bonnet Type Shut-Off Valves with Non-Soldered Cutting Ring-Type Pipe Unions—1973
DIN 86502	Gunmetal Screwed Bonnet Non-Return Valves with Non-Soldered Pipe Unions with Cutting Ring—1973
DIN 86511	Shut-Off Valves, Screwed-Bonnet Type of Gun Metal with 25 Deg. Taper Bushing Pipe Unions for Brazing
DIN 86512	Shut-Off Check Valves, Screwed-Bonnet Type of Gun Metal with 25 Deg. Taper Bushing Pipe Unions for Brazing
DIN 86528	Tab Washers for Screwed Bonnet Valves—1973
DIN 86545 (W)	Vent Valve; R ¼"; NP 16; up to 110 Deg. C
DIN 86551	Steel Screwed Bonnet Valves with 25 Deg. Taper-Bushing Type Pipe Unions
DIN 86552	Steel Screwed Bonnet Valves with Non-Soldered Cutting Ring-Type Pipe Unions—1973
DIN 86720	Bronze Wedge-Type Flat-Sided Gate Valves with Screwed Bonnet and Flanges; ND 16; NW 20 to 100—1968
DIN 87107	Gaskets for Non-Return Flaps in Accordance with DIN 87101
DIN 87901	Sniffle Valves for Pumps; Size R ⅜" to R ¾"; ND 16 up to 100 Deg. C—1967

TABLE E10.J1 Japanese Standards and Specifications for Pipe, Tube, and Fittings

Numbers	Title
JIS A 5302	Concrete Pipes and Reinforced Concrete Pipes
JIS A 5303	Reinforced Spun and Centrifugal Reinforced Concrete Pipes
JIS A 5314	Mortar Lining for Ductile Iron Pipes (Errata–1995)
JIS A 5322	Reinforced Spun-Concrete Pipes with Socket
JIS A 5333	Core Type Prestressed Concrete Pipes
JIS A 5350	Fiberglass Reinforced Plastic Mortar Pipes (Errata–1995)
JIS A 5405	Asbestos Cement Pipes
JIS G 3429	Seamless Steel Tubes for High Pressure Gas Cylinder
JIS G 3439	Seamless Steel Oil Well Casing, Tubing and Drill Pipe
JIS G 3441	Alloy Steel Tubes for Machine Purposes
JIS G 3442	Galvanized Steel Pipes for Water Service
JIS G 3443	Coated Steel Pipes for Water Service; (Erratum)
JIS G 3444	Carbon Steel Tubes for General Structural Purposes: (Errata–March 1996)
JIS G 3445	Carbon Steel Tubes for Machine Structural Purposes
JIS G 3446	Stainless Steel Pipes for Machine and Structural Purposes
JIS G 3447	Stainless Steel Sanitary Pipes
JIS G 3448	Light Gauge Stainless Steel Pipes for Ordinary Piping
JIS G 3451	Fittings of Coated Steel Pipes for Water Service; Errata–1996
JIS G 3452	Carbon Steel Pipes for Ordinary Piping
JIS G 3454	Carbon Steel Pipes for Pressure Service
JIS G 3455	Carbon Steel Pipes for High Pressure Service
JIS G 3456	Carbon Steel Pipes for High Temperature Service
JIS G 3457	Arc Welded Carbon Steel Pipes
JIS G 3458	Alloy Steel Pipes
JIS G 3459	Stainless Steel Pipes (Errata–1995)
JIS G 3460	Steel Pipes for Low Temperature Service
JIS G 3465	Seamless Steel Tubes for Drilling
JIS G 3466	Carbon Steel Square Pipes for General Structural Purposes
JIS G 3468	Large Diameter Welded Stainless Steel Pipes
JIS G 3469	Polyethylene Coated Steel Pipes
JIS G 3471	Corrugated Steel Pipes and Sections
JIS G 3474	High Tensile Strength Steel Tubes for Tower Structural Purposes
JIS G 3491	Asphalt Protective Coatings for Steel Water Pipe R (1983)

TABLE E10.J1 Japanese Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
JIS G 3492	Coal-Tar Enamel Protective Coatings for Steel Water Pipe R (1983)
JIS G 4903	Seamless Nickel-Chromium-Iron Alloy Pipes
JIS G 5201	Centrifugally Cast Steel Pipes for Welded Structure
JIS G 5202	Centrifugally Cast Steel Pipes for High Temperature and High Pressure Service
JIS G 5525	Cast-Iron Soil Pipes and Fittings; Errata-1996
JIS G 5526	Ductile Iron Pipes
JIS G 5527	Ductile Iron Fittings
JIS G 5528	Epoxy-Powder Coating for Interior of Ductile Iron Pipes and Fittings
JIS H 0502	Method of Eddy Current Testing for Copper and Copper-Alloy Pipes and Tubes
JIS H 0515	Eddy Current Inspection of Titanium Pipes and Tubes
JIS H 0516	Ultrasonic Inspection of Titanium Pipes and Tubes
JIS H 3300	Copper and Copper Alloy Seamless Pipes and Tubes
JIS H 3320	Copper and Copper Alloy Welded Pipes and Tubes
JIS H 3401	Pipe Fittings of Copper and Copper Alloy
JIS H 4080	Aluminum and Aluminum Alloy Seamless Pipes and Tubes
JIS H 4090	Aluminum and Aluminum Alloy Welded Pipes and Tubes
JIS H 4202	Magnesium Alloy Seamless Pipes and Tubes
JIS H 4311	Lead and Lead Alloy Tubes for Common Industries
JIS H 4312	Polyethylene Lining Lead Pipes for Water Supply
JIS H 4552	Nickel and Nickel Alloy Seamless Pipe and Tubes
JIS H 4630	Titanium Pipes for Ordinary Piping
JIS H 4635	Titanium-Palladium Alloy Pipes for Ordinary Piping
JIS K 6739	Unplasticized Polyvinyl Chloride Pipe Fittings for Drain R (1980)
JIS K 6741	Unplasticized Polyvinyl Chloride (PVC) Pipes
JIS K 6742	Unplasticized Polyvinyl Chloride Pipes for Water Works; (Errata-April 1995)
JIS K 6743	Unplasticized Polyvinyl Chloride Pipe Fittings for Water Works
JIS K 6761	Polyethylene Pipes for General Purposes
JIS K 6762	Polyethylene Pipes for Water Works; (Errata-April 1995)
JIS K 6763	Polyethylene Pipe Fittings for Water Works
JIS K 6769	Crosslinked Polyethylene (XPE) Pipes
JIS K 6770	Crosslinked Polyethylene (XPE) Pipe Fusion Fittings

TABLE E10.J1 Japanese Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
JIS K 6774	Polyethylene Pipes for the Supply of Gaseous Fuels
JIS K 6775	Polyethylene Pipe-Fittings for the Supply of Gaseous Fuels
JIS K 6776	Chlorinated Polyvinyl Chloride (CPVC) Pipes for Hot and Cold Water Supply
JIS K 6777	Chlorinated Polyvinyl Chloride (CPVC) Pipe Fittings for Hot and Cold Water Supply
JIS K 6778	Polybutene (PB) Pipes
JIS K 6779	Polybutene (PB) Pipe-Fittings
JIS K 6897	Polytetrafluoroethylene Pipes
JIS R 1201	Clay Pipes
JIS R 1511	Conical Flanged Straight Pipes of Acid Proof Porcelains for Chemical Industry
JIS R 1512	Conical Flanged 90 Degree Bent Pipes of Acid Proof Porcelains for Chemical Industry
JIS R 1513	Conical Flanged 45 Degree Bent Pipes of Acid Proof Porcelains for Chemical Industry
JIS R 1514	Conical Flanged Tee Pipes of Acid Proof Porcelains for Chemical Industry
JIS R 1534	Metal Joint For Conical Flange Pipes of Acid Proof Porcelains for Chemical Industry
JIS R 3511	Ampoule Pipe
JIS S 2080	Exhaust Pipes for Burning Appliances
JIS S 3025	Supply and Exhaust Pipes for Oil Burning Appliances
JIS S 3028	Oil Discharge Copper Pipe for Oil Burning Appliances
JIS T 7101	Medical Gas Pipeline Systems
JIS T 9211	Pipes for Endoskeletal Type of Lower Limb Protheses
JIS B 2301	Screwed Type Malleable Cast Iron Pipe Fittings
JIS B 2302	Screwed Type Steel Pipe Fittings
JIS B 2311	Steel Butt-Welding Pipe Fittings for Ordinary Use
JIS B 2312	Steel Butt-Welding Pipe Fittings
JIS B 2313	Steel Plate Butt-Welding Pipe Fittings
JIS B 2316	Steel Socket-Welding Pipe Fittings
JIS B 2321	Aluminium and Aluminium Alloy Butt-Welding Pipe Fittings
JIS B 2351	25 MPa (250 kgf/cm ²) Bite Type Tube Fittings for Hydraulic Use; (Errata-1994)
JIS B 2354	Crosslinked Polyethylene (XPE) Pipe Clamp Type Fittings
JIS B 6164	Compression Type Tube Fittings for Machine Tools Edition 1
JIS B 8381	Pneumatic System—Flexible Tubes—Tube Fittings

TABLE E10.J1 Japanese Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
JIS C 8380	Plastic Coated Steel Pipes for Cable—Ways
JIS D 3607	Automotive Diesel Engines—Steel Tubes for High-Pressure Fuel Injection Pipes
JIS E 4106	Railway Rolling Stock—Screwed Type Pipe Fittings
JIS E 4308	Railway Rolling Stock—Air Filters
JIS F 0014	Glossary of Terms of Shipbuilding (Hull Part—Piping)
JIS F 0301	Schemes Thermal Insulation of Piping for Small Ships
JIS F 0414	Internal Wirings and Pippings of Marine Engine Control Console
JIS F 0506	Application of Copper Pipes for Marine Use
JIS F 0507	Small Ships—Steel Pipes—Application
JIS F 2007	Mooring Pipes
JIS F 2030	Single Point Mooring Pipes
JIS F 3001	Hinged Caps of Sounding Pipes
JIS F 3002	Deck Pieces for Sounding Pipes R (1977)
JIS F 3016	Ships' Cast Iron Pipe Sleeve Type Expansion Joints
JIS F 3017	Ships' Cast Steel Pipe Sleeve Type Expansion Joints
JIS F 3993	Discharge Pipes for Dredger
JIS F 3994	Floaters of Discharge Pipes for Dredger
JIS F 3995	Rubber Sleeves for Dredger Discharge Pipes
JIS F 7008	Standard Specification of Thermal Insulation for Piping
JIS F 7101	Pipes of Ships' Machinery—Standard Velocity of Flow
JIS F 7102	Application for Gaskets and Packings to Piping System in Machinery Space
JIS F 7435	Brass 30 K Unions with Bite Joint(s) for Marine Use
JIS F 7436	Copper Tube 10 K Brazed Unions for Marine Use
JIS F 7437	Copper Tube 10 K Screwed Unions for Marine Use
JIS F 7438	Steel Pipe 10 K Welding Type Unions for Marine Use
JIS F 7439	Steel Pipe 10 K Screwed Unions for Marine Use
JIS F 7440	Copper Pipe 20 K Brazed Type Unions for Marine Use
JIS F 7441	Copper Pipe 20 K Screwed Unions for Marine Use
JIS F 7442	Steel Pipe 40 K Welded Unions for Marine Use
JIS F 7443	Steel Pipe 40 K Screwed Unions for Marine Use
JIS F 7444	Steel Pipe 100 K Welded Unions for Marine Use
JIS F 7445	Steel Pipe 100 K Screwed Unions for Marine use
JIS B 0151	Iron and Steel Pipe Fittings—Vocabulary
JIS B 2303	Screwed Drainage Fittings Edition 1
JIS B 8602	Pipe Flanges for Refrigerants; (Errata–1994)
JIS B 8607	Flare Type and Brazing Type Fittings for Refrigerants

TABLE E10.J2 Japanese Standards for Flanges, Bolts, Nuts, and Gaskets

Numbers	Title
JIS B 1189	Hexagon Bolts with Flange
JIS B 1190	Hexagon Nuts with Flange
JIS B 1451	Rigid Flanged Shaft Couplings
JIS B 1452	Flexible Flanged Shaft Couplings
JIS B 2201	Pressure Ratings for Ferrous Material Pipe Flanges Replaced by B 2238 and B 2239
JIS B 2202	Dimensions for Pipe Flange Facing
JIS B 2203	Tolerances for Pipe Flanges Replaced by B 2238 and B 2239
JIS B 2205	Basis for Calculation of Pipe Flanges
JIS B 2206	Basis for Calculation of Aluminium Alloy Pipe Flanges
JIS B 2207	Basis for Calculation of Aluminium Alloy Pipe Flanges with Full Face Gasket
JIS B 2210	Basic Dimensions of Ferrous Material Pipe Flanges replaced by B 2238 and B 2239
JIS B 2220	Steel Welding Pipe Flanges
JIS B 2240	Basic Dimensions of Copper Alloy Pipe Flanges
JIS B 2241	Basic Dimensions of Aluminium Alloy Pipe Flanges
JIS B 2990	Vacuum Flanges R (1974)
JIS B 2291	21 MPa Slip-On Welding Pipe Flanges for Hydraulic Use
JIS B 2292	Hydraulic Fluid Power—Positive Displacement Pumps and Motors—Dimensions and Identification Code for Mounting Flanges and Shaft Ends Part 2: Two- and Four-Hole Flanges and Shaft Ends—Metric Series (ISO 3019-2)
JIS B 2404	Spiral-Wound Gaskets for Pipe Flanges
JIS B 8273	Bolted Flange for Pressure Vessels
JIS B 8436	Circular Flanged Mechanical Interfaces of Industrial Robots
JIS B 8602	Pipe Flanges for Refrigerants: (Errata–1994)
JIS D 3106	Sleeve Type Flanged Half Bearings for Automobile Engines
JIS D 3631	Shapes and Dimensions of Flange-Mounted and Screw-Mounted Nozzle Holders Size S for Road Vehicles
JIS D 3701	Dimensions of Carburetor Flanges for Automobiles
JIS D 4304	Dimension of Flanges to be Fitted up Clutch Housing for Automobiles R (1983)
JIS F 7381	Bronze 5 K Flanged Cocks for Marine Use
JIS F 7801	Face-To-Face Dimensions of Marine T Pieces with Flanges
JIS F 7804	Marine Silver Brazing 5 K Pipe Flanges

TABLE E10.J3 Japanese Standards and Specifications for Valves

Numbers	Title
JIS B 0100	Glossary of Terms for Valves
JIS B 2001	Nominal Size and Bore of Valves
JIS B 2002	Face-To-Face and End-To-End Dimensions of Valves
JIS B 2003	General Rules for Inspection of Valves
JIS B 2004	General Rules for Marking on Valves
JIS B 2005	Test Procedures for Flow Coefficients of Valves
JIS B 2007	Industrial-Process Control Valves—Inspection and Routine Testing
JIS B 2011	Bronze Gate, Globe, Angle and Check Valves edition 1; Errata April—1997
JIS B 2031	Gray Cast Iron Valves
JIS B 2032	Wafer Type Rubber-Seated Butterfly Valves
JIS B 2051	Malleable Iron 10 K Screwed Valves
JIS B 2061	Faucets and Ball Taps
JIS B 2062	Sluice Valves for Water Works
JIS B 2063	Air Vent Valves for Water Works
JIS B 2064	Butterfly Valves for Water Works
JIS B 2071	Cast Steel Flanged Valves
JIS B 2191	Screwed Bronze Plug Cocks and Gland Cocks
JIS B 8210	Steam Boilers and Pressure Vessels—Spring Loaded Safety Valves
JIS B 8225	Safety Valves—Measuring Methods for Coefficient of Discharge
JIS B 8244	Valves for Dissolved Acetylene Cylinder
JIS B 8245	Valves for Liquefied Petroleum Gas Cylinder
JIS B 8246	High Pressure Gas Cylinders—Valves Edition 1
JIS B 8355	Subplate Type Solenoid Operated 4-Port Valves for Oil-Hydraulic Use R (1984)
JIS B 8357	Pressure Compensating Type Flow Control Valves for Oil-Hydraulic Use
JIS B 8372	Pressure Reducing Valves for Pneumatic Use
JIS B 8373	Pneumatic System—2-Port Solenoid Operated Valves
JIS B 8374	Pneumatic System—3-Port Solenoid Operated Valves
JIS B 8375	Pneumatic System—4-Port and 5-Port Solenoid Operated Valves; (Errata—1994)
JIS B 8376	Speed Control Valves for Pneumatic Use
JIS B 8410	Pressure Reducing Valves for Water
JIS B 8414	Relief Valves for Hot Water Appliances
JIS B 8471	Water Pipe Line—Solenoid Valves
JIS B 8472	Steam Pipe Line—Solenoid Valves

TABLE E10.J3 Japanese Standards and Specifications for Valves (*Continued*)

Numbers	Title
JIS B 8473	Fuel Oil Pipe Line—Solenoid Valves
JIS B 8605	Stop Valves for Refrigerants
JIS B 8619	Methods of Testing for Performance of Thermostatic Refrigerant Expansion Valves
JIS B 8651	Test Methods for Electro-Hydraulic Proportional Pressure Relief Valves
JIS B 8652	Test Methods for Electro-Hydraulic Proportional Pressure Reducing Valves and Electro-Hydraulic Proportional Pressure Reducing and Relieving Valves
JIS B 8653	Test Methods for Electro-Hydraulic Proportional Metering Valves
JIS B 8654	Test Methods for Electro-Hydraulic Proportional Series Flow Control Valves
JIS B 8655	Test Methods for Electro-Hydraulic Proportional Directional Series Flow Control Valves
JIS B 8656	Test Methods for Electro-Hydraulic Proportional Bypass Flow Control Valves
JIS B 8657	Test Methods for Electro-Hydraulic Proportional Directional Bypass Flow Control Valves
JIS B 8658	Rules of Electronic Amplifier for Electro-Hydraulic Control Valves
JIS B 8659	Test Methods for Electro-Hydraulic Servo Valves
JIS E 4102	Angle Cocks for Railway Rolling Stock
JIS E 4105	Three-Way Cocks for Railway Rolling Stock
JIS E 4115	Magnet Valves for Railway Rolling Stock
JIS E 4117	Leveling Valves for Railway Rolling Stock
JIS E 4306	Conductor's Valves for Railway Rolling Stock
JIS E 7701	Safety Valves for High Pressure Gas Tank Car Tanks
JIS F 0504	Application and Setting Pressure of Relief Valves for Ships' Machinery
JIS F 3018	Self Closing Parallel Cock Heads for Short Sounding Pipe
JIS F 3019	Self-Closing Gate Valve Heads for Short Sounding Pipe
JIS F 3024	Ships' Deck Stands for Controlling Valves
JIS F 3025	Remote Handling Fittings for Valves on Small Ships' Forepeak Bulkhead
JIS F 3026	Remote Handling Fittings for Valves in Small Ships' Cargo Oil Tank
JIS F 3056	Ships' Foot Valves R (1971)

TABLE E10.J3 Japanese Standards and Specifications for Valves (*Continued*)

Numbers	Title
JIS F 3057	Bronze Vertical Storm Valves
JIS F 3058	Cast Steel Vertical Storm Valves R (1977)
JIS F 3059	Bronze Screwdown Vertical Storm Valves
JIS F 3060	Cast Steel Screwdown Vertical Storm Valves
JIS F 3303	Flash Butt Welded Anchor Chain Cables
JIS F 5610	Forged Steel 20 K Reflex Type Water Gauges with Valves for Marine Boilers
JIS F 5611	Forged Steel 63 K Transparent Type Water Gauges with Valves for Marine Boilers
JIS F 7007	Abbreviation Used in Name Plate for Marine Valve
JIS F 7211	Marine 5 K Level Gauges with Valves
JIS F 7212	Marine Oil Level Gauges with Self Closing Valves
JIS F 7213	Marine 16 K Water Gauges with Valve
JIS F 7216	Marine Self Closing Valves for Oil Level Gauges
JIS F 7300	Application for Marine Valves and Cocks
JIS F 7301	Marine Bronze 5 K Globe Valves
JIS F 7302	Marine Bronze 5 K Angle Valves
JIS F 7303	Marine Bronze 16 K Globe Valves
JIS F 7304	Marine Bronze 16 K Angle Valves
JIS F 7305	Cast Iron 5 K Globe Valves for Marine Use
JIS F 7306	Cast Iron 5 K Angle Valves for Marine Use
JIS F 7307	Cast Iron 10 K Globe Valves for Marine Use
JIS F 7308	Cast Iron 10 K Angle Valves for Marine Use
JIS F 7309	Cast Iron 16 K Globe Valves for Marine Use
JIS F 7310	Cast Iron 16 K Angle Valves for Marine Use
JIS F 7311	Cast Steel 5 K Globe Valves for Marine Use
JIS F 7312	Cast Steel 5 K Angle Valves for Marine Use
JIS F 7313	Cast Steel 20 K Globe Valves for Marine Use
JIS F 7314	Cast Steel 20 K Angle Valves for Marine Use
JIS F 7315	Cast Steel 30 K Globe Valves for Marine Use
JIS F 7316	Cast Steel 30 K Angle Valves for Marine Use
JIS F 7317	Cast Steel 40 K Globe Valves for Marine Use
JIS F 7318	Cast Steel 40 K Angle Valves for Marine Use
JIS F 7319	Cast Steel 10 K Globe Valves for Marine Use
JIS F 7320	Cast Steel 10 K Angle Valves for Marine Use
JIS F 7321	Malleable Iron 5 K Globe Valves for Marine Use
JIS F 7322	Malleable Iron 5 K Angle Valves for Marine Use
JIS F 7323	Malleable Iron 16 K Globe Valves for Marine Use
JIS F 7324	Malleable Iron 16 K Angle Valves for Marine Use

TABLE E10.J3 Japanese Standards and Specifications for Valves (*Continued*)

Numbers	Title
JIS F 7329	Forged Steel 40 K Globe Valves for Marine Use
JIS F 7330	Forged Steel 40 K Angle Valves for Marine Use
JIS F 7333	Marine Cast Iron Hose Valves
JIS F 7334	Marine Bronze Hose Valves
JIS F 7336	Forged Steel Globe Air Valves for Marine Use
JIS F 7337	Forged Steel Angle Air Valves for Marine Use
JIS F 7340	Cast Steel Globe Air Valves for Marine Use
JIS F 7341	Forged Steel 100 K Pressure Gauge Valves for Marine Use
JIS F 7346	Bronze 5 K Globe Valves (Union Bonnet Type) for Marine Use
JIS F 7347	Bronze 5 K Angle Valves (Union Bonnet Type) for Marine Use
JIS F 7348	Bronze 16 K Globe Valves (Union Bonnet Type) for Marine Use
JIS F 7349	Bronze 16 K Angle Valves (Union Bonnet Type) for Marine Use
JIS F 7350	Marine Hull Cast Steel Angle Valves
JIS F 7351	Marine Bronze 5 K Screw-Down Check Globe Valves
JIS F 7352	Marine Bronze 5 K Screw-Down Check Angle Valves
JIS F 7353	Cast Iron 5 K Screw-Down Check Globe Valves for Marine Use
JIS F 7354	Cast Iron 5 K Screw-Down Check Angle Valves for Marine Use
JIS F 7356	Marine Bronze 5 K Lift Check Valves
JIS F 7358	Cast Iron 5 K Lift Check Globe Valves for Marine Use
JIS F 7359	Cast Iron 5 K Lift Check Angle Valves for Marine Use
JIS F 7360	Marine Hull Cast Steel Gate Valves
JIS F 7363	Cast Iron 5 K Gate Valves for Marine Use
JIS F 7364	Cast Iron 10 K Gate Valves for Marine Use
JIS F 7365	Marine Hull Cast Steel Globe Valves
JIS F 7366	Cast Steel 10 K Gate Valves for Marine Use
JIS F 7367	Bronze 5 K Rising Stem Type Gate Valves for Marine Use
JIS F 7368	Bronze 10 K Rising Stem Type Gate Valves for Marine Use
JIS F 7369	Cast Iron 16 K Gate Valves for Marine Use
JIS F 7371	Bronze 5 K Swing Check Valves for Marine Use
JIS F 7372	Cast Iron 5 K Swing Check Valves for Marine Use
JIS F 7373	Cast Iron 10 K Swing Check Valves for Marine Use

TABLE E10.J3 Japanese Standards and Specifications for Valves (*Continued*)

Numbers	Title
JIS F 7375	Cast Iron 10 K Screw-Down Check Globe Valves for Marine Use
JIS F 7376	Cast Iron 10 K Screw-Down Check Angle Valves for Marine Use
JIS F 7377	Cast Iron 16 K Screw-Down Check Globe Valves for Marine Use
JIS F 7378	Cast Iron 16 K Screw-Down Check Angle Valves for Marine Use
JIS F 7379	Brass 30 K Stop Valves with Bite Joint(s) for Marine Use
JIS F 7388	Bronze 20 K Globe Valves for Marine Use
JIS F 7389	Bronze 20 K Angle Valves for Marine Use
JIS F 7390	Marine Cocks with Locks
JIS F 7398	Marine Fuel Oil Tank Self-Closing Drain Valves
JIS F 7399	Marine Fuel Oil Tank Emergency Shut-off Valves
JIS F 7400	Ship Valves and Cocks—General Inspection Requirement
JIS F 7403	Marine Hull Bronze Globe Valves
JIS F 7404	Marine Hull Bronze Angle Valves
JIS F 7409	Marine Bronze 16 K Scew-Down Check Globe Valves
JIS F 7410	Marine Bronze 16 K Scew-Down Check Angle Valves
JIS F 7411	Bronze 5 K Screw-Down Check Globe Valves for Marine Use (Union Bonnet Type)
JIS F 7412	Bronze 5 K Screw-Down Check Angle Valves for Marine Use (Union Bonnet Type)
JIS F 7413	Bronze 16 K Screw-Down Check Globe Valves for Marine Use (Union Bonnet Type)
JIS F 7414	Bronze 16 K Screw-Down Check Angle Valves for Marine Use (Union Bonnet Type)
JIS F 7415	Bronze 5 K Lift Check Globe Valves for Marine Use (Union Bonnet Type)
JIS F 7416	Bronze 5 K Lift Check Angle Valves for Marine Use (Union Bonnet Type)
JIS F 7417	Bronze 16 K Lift Check Globe Valves for Marine Use (Union Bonnet Type)
JIS F 7418	Bronze 16 K Lift Check Angle Valves for Marine Use (Union Bonnet Type)
JIS F 7421	Forged Steel 20 K Globe Valves for Marine Use
JIS F 7422	Forged Steel 20 K Angle Valves for Marine Use
JIS F 7456	Remote Shut-off Devices for Marine Fuel Oil Tank Emergency Shut-off Valves

TABLE E10.J3 Japanese Standards and Specifications for Valves (*Continued*)

Numbers	Title
JIS F 7457	Pneumatically Operated Remote Shut-off Devices for Marine Fuel Oil Tank Emergency Shut-off Valves
JIS F 7471	Cast Steel 10 K Screw-Down Check Globe Valves for Marine Use
JIS F 7472	Cast Steel 10 K Screw-Down Check Angle Valves for Marine Use
JIS F 7473	Cast Steel 20 K Screw-Down Check Globe Valves for Marine Use
JIS F 7474	Cast Steel 20 K Screw-Down Check Angle Valves for Marine Use
JIS F 7475	Cast Steel Angle Air Valves for Marine Use
JIS F 7480	Rubber-Seat Butterfly Valves for Marine Use
JIS G 3561	Oil Tempered Wire for Valve Springs
JIS S 2120	Gas Valves
JIS S 2150	Manually Operated Gas Valves for Gas Appliances
JIS S 2151	Automatic Gas Valves for Gas Appliances
JIS S 3019	Oil Control Valves for Oil Burning Appliances
JIS S 7303	SCUBA Diving Goods—Cylinder Valves
JIS F 7425	Shipbuilding—Cast Iron Valves
JIS F 7426	Shipbuilding—Cast Steel Valves

TABLE E10.11 International Standards and Specifications for Pipe, Tube, and Fittings

Numbers	Title
ISO 7-1	Pipe Threads Where Pressure-Tight Joints Are Made on the Threads—Part 1: Dimensions, Tolerances and Designation Third Edition
ISO 8	Pipe Threads Where Pressure-Tight Joints Are Made on the Threads—Part 2: Verification by Means of Limit Gauges First Edition
ISO 228-1	Pipe Threads Where Pressure-Tight Joints Are Not Made on the Threads—Part 1: Dimensions, Tolerances and Designation Third Edition
ISO 228-2	Pipe Threads Where Pressure-Tight Joints Are Not Made on the Threads—Part 2: Verification by Means of Limit Gauges Second Edition
ISO 392	Asbestos-Cement Pipe Fittings for Building and Sanitary Purposes First Edition
ISO 580	Injection-Moulded Unplasticized Poly(Vinyl Chloride) (PVC-U) Fittings—Oven Test—Test Method and Basic Specifications Second Edition
ISO 1179	Pipe Connections, Threaded to ISO 228/1, for Plain End Steel and Other Metal Tubes in Industrial Applications Second Edition
ISO 2035	Unplasticized Polyvinyl Chloride (PVC) Moulded Fittings for Elastic Sealing Ring Type Joints for Use Under Pressure—Pressure-Resistance Test First Edition
ISO 2044	Unplasticized Polyvinyl Chloride (PVC) Injection-Moulded Solvent-Welded Socket Fittings for Use with Pressure Pipe—Hydraulic Internal Pressure Test First Edition
ISO 2284	Hand Taps for Parallel and Taper Pipe Threads—General Dimensions and Marking Third Edition
ISO 2507-1	Thermoplastic Pipes and Fittings—Vicat Softening Temperature—Part 1: General Test Method First Edition; (Replaces ISO 2507)
ISO 2507-2	Thermoplastic Pipes and Fittings—Vicat Softening Temperature—Part 2: Test Conditions for Unplasticized Poly(Vinyl Chloride) (PVC-U) or Chlorinated Poly(Vinyl Chloride) (PVC-C) Pipes and Fittings and for High Impact Resistance Poly(Vinyl Chloride) (PVC-HI) Pipes First Edition (Replaces ISO 2507)
ISO 2507-3	Thermoplastics Pipes and Fittings—Vicat Softening Temperature—Part 3: Test Conditions for Acrylonitrile/Butadiene/Styrene (ABS) and Acrylonitrile/Styrene/Acrylic Ester (ASA) Pipes and Fittings First Edition
ISO 2852	Stainless Steel Clamp Pipe Couplings for the Food Industry Second Edition

TABLE E10.11 International Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
ISO 3183-1	Petroleum and Natural Gas Industries—Steel Pipe for Pipelines—Technical Delivery Conditions—Part 1: Pipes of Requirement Class A Second Edition
ISO 3183-2	Petroleum and Natural Gas Industries—Steel Pipe for Pipelines—Technical Delivery Conditions—Part 2: Pipes of Requirements Class B Second Edition
ISO TR 3313	Measurement of Pulsating Fluid Flow in a Pipe by Means of Orifice Plates, Nozzles or Venturi Tubes Second Edition
ISO 3458	Assembled Joints Between Fittings and Polyethylene (PE) Pressure Pipes—Test of Leakproofness Under Internal Pressure First Edition
ISO 3459	Polyethylene (PE) Pressure Pipes—Joints Assembled with Mechanical Fittings—Internal Under-Pressure Test Method and Requirement First Edition
ISO 3477	Polypropylene (PP) Pipes and Fittings—Density—Determination and Specification Second Edition
ISO 3503	Assembled Joints Between Fittings and Polyethylene (PE) Pressure Pipes—Test of Leakproofness Under Internal Pressure When Subjected to Bending First Edition
ISO 3514	Chlorinated Polyvinyl Chloride (CPVC) Pipes and Fittings—Specification and Determination of Density First Edition
ISO 3603	Fittings for Unplasticized Polyvinyl Chloride (PVC) Pressure Pipes with Elastic Sealing Ring Type Joints—Pressure Test for Leakproofness First Edition
ISO 3604	Fitting for Unplasticized Polyvinyl Chloride (PVC) Pressure Pipes with Elastic Sealing Ring Type Joints—Pressure Test for Leakproofness Under Conditions of External Hydraulic Pressure First Edition
ISO 4059	Polyethylene (PE) Pipes—Pressure Drop in Mechanical Pipe-Jointing Systems—Method of Test and Requirements First Edition
ISO 4230	Hand- and Machine-Operated Circular Screwing Dies for Taper Pipe Threads—R Series Second Edition
ISO 4231	Hand- and Machine-Operated Circular Screwing Dies for Parallel Pipe Threads—G Series Second Edition
ISO 4434	Unplasticized Polyvinyl Chloride (PVC) Adaptor Fittings for Pipes Under Pressure—Laying Length and Size of Threads—Metric Series First Edition
ISO 4439	Unplasticized Polyvinyl Chloride (PVC) Pipes and Fittings—Determination and Specification of Density First Edition

TABLE E10.I1 International Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
ISO 4451	Polyethylene (PE) Pipes and Fittings—Determination of Reference Density of Uncoloured and Black Polyethylenes First Edition; (Erratum—1980)
ISO 4488	Asbestos—Cement Pipes and Joints for Thrust-Boring and Pipe Jacking First Edition
ISO 5168	Measurement of Fluid Flow—Estimation of Uncertainty of a Flow-Rate Measurement First Edition
ISO 5969	Ground Thread Taps for Pipe Threads G Series and Rp Series—Tolerances on the Threaded Portion First Edition; (Corrigendum 1—1991)
ISO 6605	Hydraulic Fluid Power—Hose Assemblies—Method of Test First Edition
ISO 6964	Polyolefin Pipes and Fittings—Determination of Carbon Black Content by Calcination and Pyrolysis—Test Method and Basic Specification First Edition
ISO 7268	Pipe Components—Definition of Nominal Pressure First Edition: (Amendment 1—1984)
ISO 7278-2	Liquid Hydrocarbons—Dynamic Measurement—Proving Systems for Volumetric Meters—Part 2: Pipe Provers First Edition; (CEN EN ISO 7278-2: 1995)
ISO 7387-1	Adhesives with Solvents for Assembly of PVC-U Pipe Elements—Characterization—Part 1: Basic Test Methods First Edition
ISO 7608	Shipbuilding—Inland Navigation—Couplings for Disposal of Oily Mixture and Sewage Water First Edition
ISO 8142	Thermal Insulation—Bonded Preformed Man-Made Mineral Fibre Pipe Sections—Specification First Edition
ISO 8361-1	Thermoplastics Pipes and Fittings—Water Absorption—Part 1: General Test Method First Edition
ISO 8361-2	Thermoplastics Pipes and Fittings—Water Absorption—Part 2: Test Conditions for Unplasticized Poly(Vinyl Chloride) (PVC-U) Pipes and Fittings First Edition
ISO 8361-3	Thermoplastics Pipes and Fittings—Water Absorption—Part 3: Test Conditions for Acrylonitrile/Butadiene/Styrene (ABS) Pipes and Fittings First Edition
ISO 8497	Thermal Insulation—Determination of Steady-State Thermal Transmission Properties of Thermal Insulation for Circular Pipes First Edition CEN EN ISO 8497: 1996

TABLE E10.11 International Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
ISO TR 9080	Thermoplastics Pipes for the Transport of Fluids—Methods of Extrapolation of Hydrostatic Stress Rupture Data to Determine the Long-Term Hydrostatic Strength of Thermoplastics Pipe Materials First Edition
ISO 9261	Agricultural Irrigation Equipment—Emitting-Pipe Systems—Specification and Test Methods First Edition
ISO 9356	Polyolefin Pipe Assemblies with or Without Jointed Fittings—Resistance to Internal Pressure—Test Method First Edition
ISO 9691	Rubber—Recommendations for the Workmanship of Pipe Joint Rings—Description and Classification of Imperfections First Edition
ISO TR 9824-1	Measurement of Free Surface Flow in Closed Conduits—Part 1: Methods First Edition
ISO TR 9824-2	Measurement of Free Surface Flow in Closed Conduits—Part 2: Equipment First Edition
ISO 9853	Injection-Moulded Unplasticized Poly(Vinyl Chloride) (PVC-U) Fittings for Pressure Pipe Systems—Crushing Test First Edition
ISO 10400	Petroleum and Natural Gas Industries—Formulae and Calculation for Casing, Tubing, Drill Pipe and Line Pipe Properties First Edition
ISO 10420	Petroleum and Natural Gas Industries—Flexible Pipe Systems for Subsea and Marine Riser Applications First Edition
ISO 10422	Petroleum and Natural Gas Industries—Threading, Gauging, and Inspection of Casing, Tubing and Line Pipe Threads—Specification First Edition
ISO 11413	Plastics Pipes and Fittings—Preparation of Test Piece Assemblies Between a Polyethylene (PE) Pipe and an Electrofusion Fitting First Edition
ISO 11414	Plastics Pipes and Fittings—Preparation of Polyethylene (PE) Pipe/Pipe or Pipe/Fitting Test Piece Assemblies by Butt Fusion First Edition
ISO 11420	Method for the Assessment of the Degree of Carbon Black Dispersion in Polyolefin Pipes, Fittings and Compounds First Edition
ISO TR 11647	Fusion Compatibility of Polyethylene (PE) Pipes and Fittings First Edition
ISO 11961	Petroleum and Natural Gas Industries—Steel Pipes for Use as Drill Pipe—Specification First Edition

TABLE E10.11 International Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
ISO 13783	Plastics Piping Systems—Unplasticized Poly(Vinyl Chloride) (PVC-U) End-Load-Bearing Double-Socket Joints—Test Method for Leaktightness and Strength While Subjected to Bending and Internal Pressure First Edition
ISO 540	Solid Mineral Fuels—Determination of Fusibility of Ash—High-Temperature Tube Method Third Edition
ISO 1635-2	Seamless Wrought Copper and Copper Alloy Tube—Part 2: Technical Conditions of Delivery for Condenser and Heat-Exchanger Tubes First Edition
ISO 1651	Tube Drawing Mandrels First Edition; Amendment 1—1982
ISO 1684	Wire, Bar and Tube Drawing Dies—Specifications First Edition; Amendment 2—1982
ISO 2718	Standard Layout for a Method of Chemical Analysis by Gas Chromatography First Edition
ISO 2804	Wire, Bar or Tube Drawing Dies—As-Sintered Pellets of Hardmetal (Carbide)—Dimensions Second Edition
ISO 4397	Fluid Power Systems and Components—Connectors and Associated Components—Nominal Outside Diameters of Tubes and Nominal Inside Diameters of Hoses Second Edition
ISO 5361-5	Tracheal Tubes—Part 5: Requirements and Methods of Test for Cuffs and Tubes First Edition; (CSA CAN/CSA-Z5361-94)
ISO 5730	Stationary Shell Boilers of Welded Construction (Other Than Water-Tube Boilers) First Edition
ISO 6207	Seamless Nickel and Nickel Alloy Tube First Edition
ISO 7228	Tracheal Tube Connectors Third Edition; (CSA CAN/CSA-Z7228-94)
ISO 8434-1	Metallic Tube Connections for Fluid Power and General Use—Part 1: 24 Degree Compression Fittings First Edition; (Replaces ISO 8434)
ISO 8434-2	Metallic Tube Connections for Fluid Power and General Use—Part 2: 37 Degree Flared Fittings First Edition; (Replaces ISO 8434)
ISO 8434-3	Metallic Tube Connections for Fluid Power and General Use—Part 3: O-Ring Face Seal Fittings First Edition
ISO 8434-4	Metallic Tube Connections for Fluid Power and General Use—Part 4: 24 Degree Cone Connectors with O-Ring Weld-On Nipples First Edition
ISO 8434-5	Metallic Tube Connections for Fluid Power and General Use—Part 5: Test Methods for Threaded Hydraulic Fluid Power Connections First Edition

TABLE E10.11 International Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
ISO 8491	Metallic Materials—Tube (In Full Section)—Bend Test First Edition
ISO 8492	Metallic Materials—Tube—Flattening Test First Edition
ISO 8493	Metallic Materials—Tube—Drift Expanding Test First Edition
ISO 8494	Metallic Materials—Tube—Flanging Test First Edition
ISO 8495	Metallic Materials—Tube—Ring Expanding Test First Edition
ISO 8496	Metallic Materials—Tube—Ring Tensile Test First Edition
ISO 8762	Workplace Air—Determination of Vinyl Chloride—Charcoal Tube/Gas Chromatographic Method First Edition
ISO 9095	Steel Tubes—Continuous Character Marking and Colour Coding for Material Identification First Edition
ISO 9455-12	Soft Soldering Fluxes—Test Methods—Part 12: Steel Tube Corrosion Test First Edition (CENELEC EN ISO 9455-12-1994)
ISO 9486	Workplace Air—Determination of Vaporous Chlorinated Hydrocarbons—Charcoal Tube/Solvent Desorption/Gas Chromatographic Method First Edition
ISO 9487	Workplace Air—Determination of Vaporous Aromatic Hydrocarbons—Charcoal Tube/Solvent Desorption/Gas Chromatographic Method First Edition
ISO 11496	Seamless and Welded Steel Tubes for Pressure Purposes—Ultrasonic Testing of Tube Ends for the Detection of Laminar Imperfections First Edition
ISO 13664	Seamless and Welded Steel Tubes for Pressure Purposes—Magnetic Particle Inspection of the Tube Ends for the Detection of Laminar Imperfections First Edition
ISO 13665	Seamless and Welded Steel Tubes for Pressure Purposes—Magnetic Particle Inspection of the Tube Body for the Detection of Surface Imperfections First Edition
ISO 49	Malleable Cast Iron Fittings Threaded to ISO 7-1 Second Edition; Corrigendum 1 02/15/1997
ISO 264	Unplasticized Polyvinyl Chloride (PVC) Fittings With Plain Sockets for Pipes Under Pressure—Laying Length—Metric Series First Edition; Addendum 1-1982

TABLE E10.11 International Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
ISO 265-1	Pipes and Fittings of Plastics Materials—Fittings for Domestic and Industrial Waste Pipes—Basic Dimensions: Metric Series—Part 1: Unplasticized Poly(Vinyl Chloride) (PVC-U) First Edition
ISO 727	Fittings of Unplasticized Polyvinyl Chloride (PVC-U), Chlorinated Polyvinyl Chloride (PVC-C) or Acrylonitrile/Butadiene/Styrene (ABS) with Plain Sockets for Pipes Under Pressure—Dimensions of Sockets—Metric Series Fourth Edition
ISO 881	Asbestos-Cement Pipes, Joints and Fittings for Sewerage and Drainage First Edition
ISO 2016	Capillary Solder Fittings for Copper Tubes—Assembly Dimensions and Tests First Edition
ISO 2048	Double-Socket Fittings for Unplasticized Poly(Vinyl Chloride) (PVC-U) Pressure Pipes with Elastic Sealing Ring Type Joints—Minimum Depths of Engagement Second Edition
ISO 2531	Ductile Iron Pipes, Fittings and Accessories for Pressure Pipelines Fourth Edition
ISO 2851	Metal Pipes and Fittings—Stainless Steel Bends and Tees for the Food Industry First Edition
ISO 3253	Hose Connections for Equipment for Welding, Cutting and Related Processes First Edition
ISO 3419	Non-Alloy and Alloy Steel Butt-Welding Fittings Second Edition; (Erratum–1982)
ISO 3501	Assembled Joints Between Fittings and Polyethylene (PE) Pressure Pipes—Test of Resistance to Pull out First Edition
ISO 3545-1	Steel Tubes and Fittings—Symbols for Use in Specifications—Part 1: Tubes and Tubular Accessories with Circular Cross-Section First Edition
ISO 3545-2	Steel Tubes and Fittings—Symbols for Use in Specifications—Part 2: Square and Rectangular Hollow Sections First Edition
ISO 3545-3	Steel Tubes and Fittings—Symbols for Use in Specifications—Part 3: Tubular Fittings with Circular Cross-Section First Edition
ISO 3586	Glass Plant, Pipeline and Fittings—General Rules for Testing, Handling and Use First Edition
ISO 3587	Glass Plant, Pipeline and Fittings—Pipeline and Fittings of Nominal Bore 15 to 150 mm—Compatibility and Interchangeability First Edition; (Erratum–1979)
ISO 3633	Unplasticized Poly(Vinyl Chloride) (PVC-U) Pipes and Fittings for Soil and Waste Discharge (Low and High Temperature) Systems Inside Buildings—Specifications First Edition

TABLE E10.11 International Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
ISO 4056	Polyethylene (PE) Pipes and Fittings—Designation of Polyethylene, Based on Nominal Density and Melt Flow Index First Edition
ISO 4132	Unplasticized Polyvinyl Chloride (PVC) and Metal Adaptor Fittings for Pipes Under Pressure—Laying Lengths and Size of Threads—Metric Series First Edition
ISO 4144	Stainless Steel Fittings Threaded to ISO 7/1 First Edition
ISO 4145	Non-Alloy Steel Fittings Threaded to ISO 7/1 Second Edition
ISO 4422-1	Pipes and Fittings Made of Unplasticized Poly(Vinyl Chloride) (PVC-U) for Water Supply—Specifications—Part 1: General First Edition; Supersedes ISO 4422: 1990
ISO 4422-2	Pipes and Fittings Made of Unplasticized Poly(Vinyl Chloride) (PVC-U) for Water Supply—Specifications—Part 2: Pipes (With or Without Integral Sockets) First Edition
ISO 4422-3	Pipes and Fittings Made of Unplasticized Poly(Vinyl Chloride) (PVC-U) for Water Supply—Specifications—Part 3: Fittings and Joints First Edition; Supersedes ISO 4422: 1990
ISO 4422-5	Pipes and Fittings Made of Unplasticized Poly(Vinyl Chloride) (PVC-U) for Water Supply—Specifications—Part 5: Fitness for Purpose of the System First Edition; Supersedes ISO 4422: 1990
ISO 4435	Unplasticized Poly(Vinyl Chloride) (PVC-U) Pipes and Fittings for Buried Drainage and Sewerage Systems—Specifications First Edition
ISO 4440-1	Thermoplastics Pipes and Fittings—Determination of Melt Mass-Flow Rate—Part 1: Test Method First Edition
ISO 4440-2	Thermoplastics Pipes and Fittings—Determination of Melt Mass-Flow Rate—Part 2: Test Conditions First Edition
ISO 4486	Asbestos-Cement Ventilation Ducts and Fittings—Dimensions and Characteristics First Edition
ISO 4704	Glass Plant, Pipeline and Fittings—Glass Plant Components First Edition; (Erratum—1979)
ISO 5251	Stainless Steel Butt-Welding Fittings First Edition
ISO 5256	Steel Pipes and Fittings for Buried or Submerged Pipelines—External and Internal Coating by Bitumen or Coal Tar Derived Materials First Edition
ISO 6447	Rubber Seals—Joint Rings Used for Gas Supply Pipes and Fittings—Specification for Material First Edition

TABLE E10.11 International Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
ISO 6448	Rubber Seals—Joint Rings Used for Petroleum Product Supply Pipes and Fittings—Specification for Material First Edition
ISO 6455	Unplasticized Polyvinyl Chloride (PVC) Fittings with Elastic Sealing Ring Type Joints for Pipes Under Pressure—Dimensions of Laying Lengths—Metric Series First Edition
ISO 6594	Cast Iron Drainage Pipes and Fittings—Spigot Series First Edition; (Corrected and Reprinted–1985)
ISO 6761	Steel Tubes—Preparation of Ends of Tubes and Fittings for Welding First Edition
ISO TR 7074	Performance Requirements for Plastic Pipes and Fittings for Use in Underground Drainage and Sewage First Edition
ISO 7245	Pipes and Fittings of Acrylonitrile-Butadiene-Styrene (ABS)—General Specification for Moulding and Extrusion Materials First Edition
ISO 7246	Pipes and Fittings of Acrylonitrile/Styrene/Acrylester (ASA)—General Specification for Moulding and Extrusion Materials First Edition
ISO 7279	Polypropylene (PP) Fittings for Pipes Under Pressure—Sockets for Fusion Using Heated Tools—Metric Series—Dimensions of Sockets First Edition
ISO 7370	Glass Fibre Reinforced Thermosetting Plastics (GRP) Pipes and Fittings—Nominal Diameters, Specified Diameters and Standard Lengths First Edition
ISO 7671	Polypropylene (PP) Pipes and Fittings (Jointed by Means of Elastomeric Sealing Rings) for Soil and Waste Discharge (Low and High Temperature) Systems Inside Buildings—Specifications First Edition
ISO 7675	Chlorinated Poly(Vinyl Chloride) (PVC-C) Pipes and Fittings for Soil and Waste Discharge (Low and High Temperature) Systems Inside Buildings—Specifications First Edition
ISO 7682	Acrylonitrile/Butadiene/Styrene (ABS) Pipes and Fittings for Soil and Waste Discharge (Low and High Temperature) Systems Inside Buildings—Specifications First Edition
ISO 7686	Plastics Pipes and Fittings—Opacity—Test Method First Edition
ISO 8283-1	Plastics Pipes and Fittings—Dimensions of Sockets and Spigots for Discharge Systems Inside Buildings—Part 1: Unplasticized Poly(Vinyl Chloride) (PVC-U) and Chlorinated Poly (Vinyl Chloride) (PVC-C) First Edition

TABLE E10.11 International Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
ISO 8283-2	Plastics Pipes and Fittings—Dimensions of Sockets and Spigots for Discharge Systems Inside Buildings—Part 2: Polyethylene (PE) First Edition
ISO 8283-3	Plastics Pipes and Fittings—Dimensions of Sockets and Spigots for Discharge Systems Inside Buildings—Part 3: Polypropylene (PP) First Edition
ISO 8283-4	Plastics Pipes and Fittings—Dimensions of Sockets and Spigots for Discharge Systems Inside Buildings—Part 4: Acrylonitrile/Butadiene/Styrene (ABS) First Edition
ISO 8434-1	Metallic Tube Connections for Fluid Power and General Use—Part 1: 24 Degree Compression Fittings First Edition; (Replaces ISO 8434)
ISO 8434-2	Metallic Tube Connections for Fluid Power and General Use—Part 2: 37 Degree Flared Fittings First Edition; (Replaces ISO 8434)
ISO 8434-3	Metallic Tube Connections for Fluid Power and General Use—Part 3: O-Ring Face Seal Fittings First Edition
ISO 8572	Pipes and Fittings Made of Glass-Reinforced Thermosetting Plastics (GRP)—Definitions of Terms Relating to Pressure, Including Relationships Between Them, and Terms for Installation and Jointing First Edition
ISO 8770	High-Density Polyethylene (PE-HD) Pipes and Fittings for Soil and Waste Discharge (Low and High Temperature) Systems Inside Buildings—Specifications First Edition
ISO 8772	High-Density Polyethylene (PE-HD) Pipes and Fittings for Buried Drainage and Sewerage Systems—Specifications First Edition
ISO 8773	Polypropylene (PP) Pipes and Fittings for Buried Drainage and Sewerage Systems—Specifications First Edition
ISO 8796	Polyethylene (PE) 25 Pipes for Irrigation Laterals—Susceptibility to Environmental Stress-Cracking Induced by Insert-Type Fittings—Test Method and Specification First Edition
ISO 9095	Steel Tubes—Continuous Character Marking and Colour Coding for Material Identification First Edition
ISO 9623	PE/Metal and PP/Metal Adaptor Fittings for Pipes for Fluids Under Pressure—Design Lengths and Size of Threads—Metric Series First Edition
ISO 9625	Mechanical Joint Fittings for Use with Polyethylene Pressure Pipes for Irrigation Purposes First Edition
ISO 9803	Vacuum Technology—Pipeline Fittings—Mounting Dimensions First Edition

TABLE E10.11 International Standards and Specifications for Pipe, Tube, and Fittings
(Continued)

Numbers	Title
ISO 9808	Solar Water Heaters—Elastomeric Materials for Absorbers, Connecting Pipes and Fittings—Method of Assessment First Edition
ISO 10147	Pipes and Fittings Made of Crosslinked Polyethylene (PE-X)—Estimation of the Degree of Crosslinking by Determination of the Gel Content First Edition
ISO TR 10358	Plastics Pipes and Fittings—Combined Chemical-Resistance Classification Table First Edition; (Cancels and Replaces TR 6285, TR 7471, TR 7472, TR 7473, TR 7474)
ISO 10508	Thermoplastics Pipes and Fittings for Hot and Cold Water Systems First Edition
ISO 10806	Pipework—Non-Alloyed and Stainless Steel Fittings for Corrugated Flexible Metallic Hoses First Edition
ISO TR 10837	Determination of the Thermal Stability of Polyethylene (PE) for Use in Gas Pipes and Fittings First Edition
ISO 10928	Plastics Piping Systems—Glass-Reinforced Thermosetting Plastics (GRP) Pipes and Fittings—Methods for Regression Analysis and Their Use First Edition
ISO 10931-3	Plastics Piping Systems for Industrial Applications—Poly(Vinylidene Fluoride) (PVDF)—Part 3: Fittings First Edition
ISO TR 11295	Techniques for Rehabilitation of Pipeline Systems by the Use of Plastics Pipes and Fittings First Edition
ISO 12162	Thermoplastics Materials for Pipes and Fittings for Pressure Applications—Classification and Designation—Overall Service (Design) Coefficient First Edition (CEN EN ISO 12162: 1995)
ISO 13761	Plastics Pipes and Fittings—Pressure Reduction Factors for Polyethylene Pipeline Systems for Use at Temperatures Above 20 Degrees C First Edition

TABLE E10.12 International Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets

Numbers	Title
ISO 666	Machine Tools—Mounting of Plain Grinding Wheels by Means of Hub Flanges Second Edition
ISO 1609	Vacuum Technology—Flange Dimensions First Edition
ISO 2536	Unplasticized Polyvinyl Chloride (PVC) Pressure Pipes and Fittings, Metric Series—Dimensions of Flanges First Edition
ISO 3019-1	Hydraulic Fluid Power—Positive Displacement Pumps and Motors—Dimensions and Identification Code for Mounting Flanges and Shaft Ends—Part 1: Inch Series Shown in Metric Units First Edition; (Erratum—1975)
ISO 3019-2	Hydraulic Fluid Power—Positive Displacement Pumps and Motors—Dimensions and Identification Code for Mounting Flanges and Shaft Ends—Part 2: Two- and Four-Hole Flanges and Shaft Ends—Metric Series Second Edition
ISO 3019-3	Hydraulic Fluid Power—Positive Displacement Pumps and Motors—Dimensions and Identification Code for Mounting Flanges and Shaft Ends—Part 3: Polygonal Flanges (Including Circular Flanges) Second Edition
ISO 3663	Polyethylene (PE) Pressure Pipe and Fittings, Metric Series—Dimensions of Flanges First Edition
ISO 3669	Vacuum Technology—Bakable Flanges—Dimensions First Edition
ISO 5211-1	Part-Turn Valve Actuator Attachment—Part 1: Flange Dimensions First Edition
ISO 5211-2	Part-Turn Valve Actuator Attachment—Part 2: Flange and Coupling Performance Characteristics First Edition
ISO 5429	Coated Abrasives—Flap Wheels with Incorporated Flanges or Separate Flanges—Designation and Dimensions First Edition
ISO 6580	General Purpose Industrial Fans—Circular Flanges—Dimensions First Edition
ISO 7005-1	Metallic Flanges—Part 1: Steel Flanges First Edition; (AS/NZS 4331.1: 1995)
ISO 7005-2	Metallic Flanges—Part 2: Cast Iron Flanges First Edition; (Supersedes ISO 2084, ISO 2229 and ISO 2441) (AS/NZS 4331.2: 1995)
ISO 7005-3	Metallic Flanges—Part 3: Copper Alloy and Composite Flanges First Edition; (Supersedes ISO 2084, ISO 2229 and ISO 2441) (AS/NZS 4331.3: 1995)
ISO 7299	Diesel Engines—End-Mounting Flanges for Fuel Injection Pumps Second Edition
ISO 9624	Thermoplastics Pipes for Fluids Under Pressure—Mating Dimensions of Flange Adapters and Loose Backing Flanges First Edition

TABLE E10.12 International Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets (*Continued*)

Numbers	Title
ISO 12129-2	Plain Bearing—Part 2: Tolerances on Form and Position and Surface Roughness for Shafts, Flanges and Thrust Collars First Edition
ISO 4708	Cork-Composition Cork Gasket Material—Test Methods First Edition
ISO 4709	Cork-Composition Cork Gasket Material—Specifications First Edition
ISO 5892	Rubber Building Gaskets—Materials for Preformed Solid Vulcanized Structural Gaskets—Specification First Edition
ISO 7483	Dimensions of Gaskets for Use with Flanges to ISO 7005 First Edition; (Corrigendum 1–1995)
ISO 225	Fasteners-Bolts, Screws, Studs and Nuts—Symbols and Designations of Dimensions Second Edition
ISO 262	ISO General Purpose Metric Screw Threads—Selected Sizes for Screws, Bolts and Nuts
ISO 263	ISO Inch Screw Threads-General Plan and Selection for Screws, Bolts and Nuts-Diameter Range 0.06 to 6 in First Edition
ISO 273	Fasteners—Clearance Holes for Bolts and Screws First Edition; Amendment Slip–1979; NZS/ISO 273: 1979
ISO 885	General Purpose Bolts and Screws—Metric Series—Radii Under the Head First Edition
ISO 887	Plain Washers for Metric Bolts, Screws and Nuts—General Plan First Edition
ISO 888	Bolts, Screws and Studs—Nominal Lengths, and Thread Lengths for General Purpose Bolts First Edition
ISO 898-1	Mechanical Properties of Fasteners—Part 1: Bolts, Screws and Studs Second Edition; AS/NZS 4291.1: 1995
ISO 898-7	Mechanical Properties of Fasteners—Part 7: Torsional Test and Minimum Torques for Bolts and Screws with Nominal Diameters 1 mm to 10 mm First Edition; CEN EN 20898-7: 1995
ISO 965-2	ISO General Purpose Metric Screw Threads—Tolerances Part 2: Limits of Sizes for General Purpose Bolt and Nut Threads—Medium Quality Second Edition
ISO R1501	ISO Miniature Screw Threads First Edition
ISO 1891	Bolts, Screws, Nuts and Accessories—Terminology and Nomenclature First Edition; Amendment Slip–1980
ISO 4014	Hexagon Head Bolts—Product Grades A and B Second Edition; (AS/NZS 1110: 1995)

TABLE E10.12 International Standards and Specifications for Flanges, Bolts, Nuts, and Gaskets (*Continued*)

Numbers	Title
ISO 4015	Hexagon Head Bolts—Product Grade B—Reduced Shank (Shank Diameter is Approximately Equal to Pitch Diameter) First Edition
ISO 4016	Hexagon Head Bolts—Product Grade C Second Edition
ISO 4162	Hexagon Flange Bolts—Small Series First Edition
ISO 4759-1	Tolerances for Fasteners—Part 1: Bolts, Screws and Nuts with Thread Diameters Greater Than or Equal to 1,6 and Less Than or Equal to 150 mm and Product Grades A, B and C First Edition
ISO 4759-2	Tolerances for Fasteners—Part 2: Bolts, Screws and Nuts with Thread Diameters from 1 up to 3 mm and Product Grade F, for Fine Mechanics First Edition; (Amendment Slip—1980)
ISO 4759-3	Tolerances for Fasteners—Part 3: Plain Washers for Bolts, Screws and Nuts with Nominal Thread Diameters from 1 mm up to and Including 150 mm—Product Grades A and C Second Edition
ISO 6157-1	Fasteners—Surface Discontinuities—Part 1: Bolts, Screws and Studs for General Requirements First Edition
ISO 6157-3	Fasteners—Surface Discontinuities—Part 3: Bolts, Screws and Studs for Special Requirements First Edition
ISO 7378	Fasteners—Bolts, Screws and Studs—Split Pin Holes and Wire Holes First Edition
ISO 7411	Hexagon Bolts for High-Strength Structural Bolting with Large Width Across Flats (Thread Lengths According to ISO 888)—Product Grade C—Property Classes 8.8 and 10.9 First Edition
ISO 7412	Hexagon Bolts for High-Strength Structural Bolting with Large Width Across Flats (Short Thread Length)—Product Grade C—Property Classes 8.8 and 10.9 First Edition
ISO 8677	Cup Head Square Neck Bolts with Large Head—Product Grade C First Edition
ISO 8678	Cup Head Square Neck Bolts with Small Head and Short Neck—Product Grade B First Edition
ISO 8765	Hexagon Head Bolts with Metric Fine Pitch Thread—Product Grades A and B First Edition
ISO 8839	Mechanical Properties of Fasteners—Bolts, Screws, Studs and Nuts Made of Non-Ferrous Metals First Edition
ISO 8992	Fasteners—General Requirements for Bolts, Screws, Studs and Nuts First Edition

TABLE E10.I3 International Standards and Specifications for Valves

Numbers	Title
ISO 683-15	Heat-Treatable Steels, Alloy Steels and Free-Cutting Steels—Part 15: Valve Steels for Internal Combustion Engines Second Edition
ISO 4126-1	Safety Valves—Part 1: General Requirements First Edition
ISO 4401	Hydraulic Fluid Power—Four-Port Directional Control Valves—Mounting Surfaces Second Edition
ISO 4411	Hydraulic Fluid Power—Valves—Determination of Pressure Differential/Flow Characteristics First Edition
ISO 4422-4	Pipes and Fittings Made of Unplasticized Poly (Vinyl Chloride) (PVC-U) for Water Supply—Specifications—Part 4: Valves and Ancillary Equipment First Edition; Supersedes ISO 4422: 1990
ISO 5208	Industrial Valves—Pressure Testing of Valves Second Edition
ISO 5209	General Purpose Industrial Valves—Marking First Edition
ISO 5210	Industrial Valves—Multi-Turn Valve Actuator Attachments First Edition
ISO 5599-1	Pneumatic Fluid Power—Five-Port Directional Control Valves—Part 1: Mounting Interface Surfaces Without Electrical Connector Second Edition
ISO 5599-2	Pneumatic Fluid Power—Five-Port Directional Control Valves—Part 2: Mounting Interface Surfaces With Optional Electrical Connector First Edition
ISO 5599-3	Pneumatic Fluid Power—Five-Port Directional Control Valves—Part 3: Code System for Communication of Valve Functions First Edition
ISO 5752	Metal Valves for Use in Flanged Pipe Systems—Face-to-Face and Centre-to-Face Dimensions Second Edition
ISO 5781	Hydraulic Fluid Power—Pressure-Control Valves (Excluding Pressure-Relief Valves), Sequences Valves, Unloading Valves, Throttle Valves and Check Valves—Mounting Surfaces First Edition
ISO 5783	Hydraulic Fluid Power—Code for Identification of Valve Mounting Surfaces and Cartridge Valve Cavities Second Edition
ISO 5996	Cast Iron Gate Valves First Edition
ISO 6002	Bolted Bonnet Steel Gate Valves First Edition
ISO 6182-2	Fire Protection—Automatic Sprinkler Systems—Part 2: Requirements and Test Methods for Wet Alarm Valves, Retard Chambers and Water Motor Alarms First Edition

TABLE E10.I3 International Standards and Specifications for Valves (*Continued*)

Numbers	Title
ISO 6182-3	Fire Protection—Automatic Sprinkler Systems—Part 3: Requirements and Test Methods for Dry Pipe Valves First Edition
ISO 6182-4	Fire Protection—Automatic Sprinkler Systems—Part 4: Requirements and Test Methods for Quick-Opening Devices First Edition
ISO 6182-5	Fire-Protection—Automatic Sprinkler Systems—Part 5: Requirements and Test Methods for Deluge Valves First Edition
ISO 6263	Hydraulic Fluid Power—Compensated Flow-Control Valves—Mounting Surfaces Second Edition
ISO 6264	Hydraulic Fluid Power—Pressure-Relief Valves—Mounting Surfaces First Edition
ISO 6403	Hydraulic Fluid Power—Valves Controlling Flow and Pressure—Test Methods First Edition; (Corrected and Reprinted—1989)
ISO 6404	Hydraulic Fluid Power—Servovalves—Test Methods First Edition
ISO 7121	Flanged Steel Ball Valves First Edition
ISO 7244	Air Distribution and Air Diffusion—Aerodynamic Testing of Dampers and Valves First Edition
ISO 7259	Predominantly Key-Operated Cast Iron Gate Valves for Underground Use First Edition
ISO 7349	Thermoplastics Valves—Connection References First Edition
ISO 7368	Hydraulic Fluid Power—Two-Port-Slip-In Cartridge Valves—Cavities First Edition
ISO 7508	Unplasticized Polyvinyl Chloride (PVC-U) Valves for Pipes Under Pressure—Basic Dimensions—Metric Series First Edition
ISO 7714	Agricultural Irrigation Equipment—Volumetric Valves—General Requirements and Test Methods Second Edition
ISO 7790	Hydraulic Fluid Power Four-Port Modular Stack Valves and Four-Port Directional Control Valves, Sizes 03 and 05—Clamping Dimensions First Edition
ISO 7967-3	Reciprocating Internal Combustion Engines—Vocabulary of Components and Systems—Part 3: Valves, Camshaft Drive and Actuating Mechanisms First Edition
ISO 8233	Thermoplastics Valves—Torque—Test Method First Edition; (Corrected and Reprinted—1989)
ISO 8242	Polypropylene (PP) Valves for Pipes Under Pressure—Basic Dimensions—Metric Series First Edition

TABLE E10.I3 International Standards and Specifications for Valves (*Continued*)

Numbers	Title
ISO 8659	Thermoplastic Valves—Fatigue Strength—Test Method First Edition
ISO 9393-1	Thermoplastic Valves—Pressure Test Methods and Requirements—Part 1: General First Edition
ISO 9393-2	Thermoplastic Valves—Pressure Test Methods and Requirements—Part 2: Test Conditions and Basic Requirements for PE, PP, PVC-U and PVDF Valves First Edition
ISO 9635	Irrigation Equipment—Hydraulically Operated Irrigation Valves First Edition
ISO 9644	Agricultural Irrigation Equipment—Pressure Losses in Irrigation Valves—Test Method First Edition
ISO 9911	Agricultural Irrigation Equipment—Manually Operated Small Plastic Valves First Edition
ISO 9952	Agricultural Irrigation Equipment—Check Valves First Edition
ISO 10418	Petroleum and Natural Gas Industries—Offshore Production Platforms—Analysis, Design, Installation and Testing of Basic Surface Safety Systems First Edition
ISO 10419	Petroleum and Natural Gas Industries—Drilling and Production Equipment—Installation, Maintenance and Repair of Surface Safety Valves and Underwater Safety Valves Offshore First Edition
ISO 10423	Petroleum and Natural Gas Industries—Drilling and Production Equipment—Specification for Valves, Wellhead and Christmas Tree Equipment First Edition
ISO 10433	Petroleum and Natural Gas Industries—Drilling and Production Equipment—Specification for Wellhead Surface Safety Valves and Underwater Safety Valves for Offshore Service First Edition
ISO 10497	Testing of Valves—Fire Type—Testing Requirements First Edition
ISO 10522	Agricultural Irrigation Equipment—Direct-Acting Pressure—Regulating Valves First Edition
ISO 10631	Metallic Butterfly Valves for General Purposes First Edition
ISO 10931-4	Plastic Piping Systems for Industrial Applications—Poly(Vinylidene Fluoride) (PVDF)—Part 4: Valves First Edition
ISO 10933	Polyethylene (PE) Valves for Gas Distribution Systems First Edition