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- [Home Home](#)
- [About this portal](#)
- [Latest updates](#)

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[Citations](#)

BS EN 1759.1:2004 Flanges and their joints. Circular flanges for pipes, valves, fittings and accessories, class-designated. Steel flanges, NPS 1/2 to 24.

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Abbreviation

BS EN 1759-1:2004

Valid from

01/01/2004

Information provider

Standards New Zealand

Author

British Standards Institution

Information type

British Standard

Format

PDF

Cited By

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Description

This Standard for a single system of flanges specifies requirements for circular steel flanges in Class designations Class 150 to Class 2 500 and nominal sizes from NPS ½ to NPS 24.

This Standard specifies the flange types and their facings, dimensions, tolerances, threading, bolt sizes, flange jointing face surface finish, marking, materials, and pressure/temperature ratings.

Scope

This Standard for a single system of flanges specifies requirements for circular steel flanges in Class designations Class 150 to Class 2 500 and nominal sizes from NPS ½ to NPS 24.

This Standard specifies the flange types and their facings, dimensions, tolerances, threading, bolt sizes, flange jointing face surface finish, marking, materials, and pressure/temperature ratings.

This Standard does not apply to flanges made from bar stock by turning, or to flanges of types 11, 12, 13, 14 and 15 made from plate material.

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- [E1/AS1 \(First Edition, Amendment 9\)](#)

BS EN 1759-1:2004 is cited by Acceptable Solution E1/AS1: Surface Water from 30/09/2010

- [E1/AS1 \(First Edition, Amendment 10\)](#)

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- [E1/AS1 \(First Edition, Amendment 8\)](#)

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- [AS/NZS 5601.1:2010](#)

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This document CITES:

Other

- [ANSI/ASME B1.20.1:1983](#)

BS EN 1759-1:2004 cites ANSI/ASME B1.20.1:1983 (R2006) Pipe threads general purpose (Inch)

- [ASTM A105/A105M-87](#)

BS EN 1759-1:2004 cites ASTM A105/A105M-87 Standard specification for forgings, carbon steel, for piping components

- [ASTM A182/A182M-00c \(Revision 00c\)](#)

BS EN 1759-1:2004 cites ASTM A182/A182M-00c Standard Specification for Forged or Rolled Alloy-Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service

- [ASTM A203/A203M-97 \(2007\)e1 \(Revised 2007 -includes editorial correction 'e1'\)](#)

BS EN 1759-1:2004 cites ASTM A203/A203M-97 (2007)e1 Standard Specification for Pressure Vessel Plates, Alloy Steel, Nickel

- [ASTM A204/A204M-03 \(2007\) \(Revised 2007\)](#)

BS EN 1759-1:2004 cites ASTM A204/A204M-03 (2007) Standard Specification for Pressure Vessel Plates, Alloy Steel, Molybdenum

- [ASTM A216/A216M - 93 \(1998\)](#)

BS EN 1759-1:2004 cites ASTM A216/A216M - 93 (1998) Standard Specification for Steel Castings, Carbon, Suitable for Fusion Welding, for High- Temperature Service

- [ASTM A217 / A217M - 02](#)

BS EN 1759-1:2004 cites ASTM A217 / A217M - 02 Standard Specification for Steel Castings, Martensitic Stainless and Alloy, for Pressure-Containing Parts, Suitable for High-Temperature Service

- [ASTM A240/A240M-02](#)

BS EN 1759-1:2004 cites ASTM A240/A240M-02 Heat resisting chromium and chromium-nickel stainless steel plate sheet and strip for pressure vessels

- [ASTM A325 - 02](#)

BS EN 1759-1:2004 cites ASTM A325 - 02 Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength

- [ASTM A350 / A350M - 02b](#)

BS EN 1759-1:2004 cites ASTM A350 / A350M - 02b Standard Specification for Carbon and Low-Alloy Steel Forgings, Requiring Notch Toughness Testing for Piping Components

- [ASTM A351/A351M-03](#)

BS EN 1759-1:2004 cites ASTM A351/A351M-03 Standard Specification for Castings, Austenitic, Austenitic-Ferritic (Duplex), for Pressure-Containing Parts

- [ASTM A352 / A352M - 03](#)

BS EN 1759-1:2004 cites ASTM A352 / A352M - 03 Standard Specification for Steel Castings, Ferritic and Martensitic, for Pressure-Containing Parts, Suitable for Low-Temperature Service

- [ASTM A387 / A387M - 03](#)

BS EN 1759-1:2004 cites ASTM A387 / A387M - 03 Standard Specification for Pressure Vessel Plates, Alloy Steel, Chromium-Molybdenum

- [ASTM A515/A515M-03 \(2007\) \(Revised 2007\)](#)

BS EN 1759-1:2004 cites ASTM A515/A515M-03 (2007) Standard Specification for Pressure Vessel Plates, Carbon Steel, for Intermediate- and Higher-Temperature Service

- [ASTM A516 / A516M - 03](#)

BS EN 1759-1:2004 cites ASTM A516 / A516M - 03 Standard Specification for Pressure Vessel Plates, Carbon Steel, for Moderate- and Lower-Temperature Service

- [ASTM A537 / A537M - 95 \(2000\)](#)

BS EN 1759-1:2004 cites ASTM A537 / A537M - 95 (2000) Standard Specification for Pressure Vessel Plates, Heat-Treated, Carbon-Manganese-Silicon Steel

- [BS EN 10025:1993](#)

BS EN 1759-1:2004 cites BS EN 10025:1993 Hot rolled products of non-alloy structural steels. Technical delivery conditions

- [BS EN 10028-2:2003](#)

BS EN 1759-1:2004 cites BS EN 10028-2:2003 Flat Products Made Of Steels For Pressure Purposes - Part 2: Non-alloy And Alloy Steels With Specified Elevated Temperature Properties

- [BS EN 10028-3:2003](#)

BS EN 1759-1:2004 cites BS EN 10028-3:2003 Specification for flat products made of steels for pressure purposes - Part 3: Weldable fine grain steels, normalized

- [BS EN 10028-4:2003](#)

BS EN 1759-1:2004 cites BS EN 10028-4:2003 Flat products made of steels for pressure purposes - Part 4: Nickel alloy steels with specified low temperature properties

- [BS EN 10028-7:2000](#)

BS EN 1759-1:2004 cites BS EN 10028-7:2000 Flat products made of steels for pressure purposes - Part 7: Stainless steels

- [BS EN 10213-2:1996](#)

BS EN 1759-1:2004 cites BS EN 10213-2:1996 Technical Delivery Conditions For Steel Castings For Pressure Purposes - Part 2: Steel Grades For Use At Room Temperature And Elevated Temperatures

- [BS EN 10213-3:1996](#)

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- [BS EN 10222-2:2000](#)

BS EN 1759-1:2004 cites BS EN 10222-2:2000 Steel forgings for pressure purposes - Part 2: Ferritic and martensitic steels with specified elevated temperature properties

- [BS EN 10222-3:1999](#)

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- [BS EN 10222-4:1999](#)

BS EN 1759-1:2004 cites BS EN 10222-4:1999 Steel forgings for pressure purposes - Part 4: Weldable fine-grain steels with high proof strength

- [BS EN 10222-5:2000](#)

BS EN 1759-1:2004 cites BS EN 10222-5:2000 Steel Forgings For Pressure Purposes - Part 5: Martensitic, Austenitic and Austenitic-ferritic Stainless Steels (EN 10222-5:1999)

- [BS EN 1515-1:2000](#)

BS EN 1759-1:2004 cites BS EN 1515-1:2000 Flanges and their joints - Bolting - Part 1: Selection of bolting

- [BS EN 1515-3:2005](#)

BS EN 1759-1:2004 cites BS EN 1515-3:2005 Flanges and their joints. Bolting. Classification of bolt materials for steel flanges, class designated

- [BS EN ISO 6708:1996](#)

BS EN 1759-1:2004 cites BS EN ISO 6708:1996 Pipework components. Definition and selection of DN (nominal size)

- [ISO 4955:1994](#)

BS EN 1759-1:2004 cites ISO 4955:1994 Heat-resisting steels and alloys

- [ISO 4991:1994](#)

BS EN 1759-1:2004 cites ISO 4991:1994 Steel castings for pressure purposes

- [ISO 887:2000](#)

BS EN 1759-1:2004 cites ISO 887:2000 Plain washers for metric bolts, screws and nuts for general purposes - General plan

- [ISO 9327-1:1999](#)

BS EN 1759-1:2004 cites ISO 9327-1:1999 Steel forgings and rolled or forged bars for pressure purposes - Technical delivery conditions - Part 1: General requirements

- [ISO 9327-2:1999](#)

BS EN 1759-1:2004 cites ISO 9327-2:1999 Steel forgings and rolled or forged bars for pressure purposes - Technical delivery conditions - Part 2: Non-alloy and alloy (Mo, Cr and CrMo) steels with specified elevated temperature properties

- [ISO 9328-2:2004](#)

BS EN 1759-1:2004 cites ISO 9328-2:2004 Steel flat products for pressure purposes - Technical delivery conditions - Part 2: Non-alloy and alloy steels with specified elevated temperature properties

- [ISO 9328-3:2004](#)

BS EN 1759-1:2004 cites ISO 9328-3:2004 Steel flat products for pressure purposes - Technical delivery conditions - Part 3: Weldable fine grain steels, normalized

- [ISO 9328-5:2004](#)

BS EN 1759-1:2004 cites ISO 9328-5:2004 Steel flat products for pressure purposes - Technical delivery conditions - Part 5: Weldable fine grain steels, thermomechanically rolled

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