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VIP Flange Tables

This information is extracted from the following European, British and American standards:

BS EN 1092 Circular flanges for pipes, valves, fittings and accessories, PN designated Part 1 Steel Flanges

Part 2 Cast Iron flanges

BS 4504 Flanges and bolting for pipes, valves and fitting metric series (for copper alloy flanges only)

ANSI B16.1 Cast Iron pipe flanges and flanged fittings.

ANSI B16.5 Steel pipe flanges and flanged fittings

ANSI B16.24 Bronze flanges and flanged fittings.

BS10 Flanges and bolting for pipes, valves and fittings.

Notes.

1. Raised joint faces are applicable to BS EN 1092-1, BS EN 1092-2 BS10 ANSI table H steel, and classes 150 to 1500 inclusive.

2. ANSI Class 125 refers to cast iron only.

3. ANSI 600, 900, 1500 flange thickness does not include raised face.

4. Dimensions for flanges to BS EN 1092 are given in millimetres only. Dimensions for ANSI and BS 10 flanges are shown in inches with the metric equivalent (to nearest whole millimetre) in brackets.

Introduction

This brochure will provide you with flange tables but should you require further information, please do not hesitate to contact us.

About Us

Formed in 1985, VIP have earned a reputation for setting the standards in quality, service and reliability.

We supply a range of industries including:
• Brewing • Chemical • Construction • Engineering • Fire Protection
• Food & Drink • Heating & Ventilation • Manufacturing • Mechanical Engineers
• Pharmaceuticals • Plumbing

Originally trading in the Strangeways area of Manchester, these premises were outgrown within 5 years and the company moved to larger premises in Newton Heath. In 2001 we acquired the business of F Ashton (ES) Ltd, an established engineer's merchant who had traded since 1922, this meant we moved to Salford.

In 2009 we had expanded to such an extent that new premises were needed once again, we are now in a purpose built 20,000 square foot premises in Astley, Manchester.

Quality

Our policy is to consistently provide you with a high level of quality products and service. Our ISO 9000 accreditation ensures that our standards are always maintained as we are assessed every 6 months.
We also hold the Investors in People award which ensures we are constantly training and developing our staff; this guarantees that we always offer a reliable service. Our Customer Service team are always on hand to help you with any problems you may have, whether it be a need for quick delivery or a product that is difficult to find.

Our service is based on a pro-active modern approach, we are customer focused and our team will advise based on your requirements only; if you are unsure of what you need we are always happy to help. We pride ourselves on technical expertise and experience, we also have excellent relationships with manufacturers. Our choice of manufacturers is not taken lightly; they are constantly reviewed to make sure they are meeting your requirements.

Mission Statement

Valves Instruments Plus will provide high quality yet affordable products that meet our customers' requirements, whilst offering excellent after sales service. We will also strive to continually improve our products and service in order to maintain our high level of customer satisfaction.

In this catalogue we have endeavoured to make the information as accurate as possible, and we cannot accept any responsibility should it be found that in any respect the information is inaccurate or incomplete or become so as a result of further developements.

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DN15 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter	Raised Face Diameter Cast Iron (3)	Raised Face Diameter Steel (3)	Raised Face Height (3)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092												
PN 6	80	55	4	M10	11	38	40	2	12 (1)	-	12	-
PN 10	95	65	4	M12	14	46	45	2	14 (1)	-	16	14
PN 16	95	65	4	M12	14	46	45	2	14 (1)	6 (2)	16	14
PN 25	95	65	4	M12	14	46	45	2	16 (1)	8 (2)	16	14
PN 40	95	65	4	M12	14	46	45	2	-	9 (2)	16	16
PN 64	105	75	4	M12	14	-	45	2	-	-	20	-
ANSI												
Class 125/150	3 1/2" (89)	2 3/8" (60)	4	1/2" (13)	5/8" (16)	-	1 3/8" (35)	1/16" (2)	-	5/16" (8)	7/16" (11)	-
Class 300	3 3/4" (95)	2 5/8" (67)	4	1/2" (13)	5/8" (16)	-	1 3/8" (35)	1/16" (2)	-	1/2" (13)	1/2" (13)	-
Class 600	3 3/4" (95)	2 5/8" (67)	4	1/2" (13)	5/8" (16)	-	1 3/8" (35)	1/4" (6)	-	-	9/16" (14)	-
Class 900	4 3/4" (121)	3 1/4" (83)	4	3/4" (19)	7/8" (22)	-	1 3/8" (35)	1/4" (6)	-	-	7/8" (22)	-
Class 1500	4 3/4" (121)	3 1/4" (83)	4	3/4" (19)	7/8" (22)	-	1 3/8" (35)	1/4" (6)	-	-	7/8" (22)	-
BS 10												
Table A	3 3/4" (95)	2 5/8" (67)	4	1/2" (13)	9/16" (14)	-	-	-	1/2" (13)	1/4" (6)	-	-
Table D	3 3/4" (95)	2 5/8" (67)	4	1/2" (13)	9/16" (14)	-	-	-	1/2" (13)	1/4" (6)	3/8" (10)	-
Table E	3 3/4" (95)	2 5/8" (67)	4	1/2" (13)	9/16" (14)	-	-	-	1/2" (13)	1/4" (6)	3/8" (10)	-
Table F	3 3/4" (95)	2 5/8" (67)	4	1/2" (13)	9/16" (14)	-	-	-	1/2" (13)	5/16" (8)	3/8" (10)	-
Table H	4 1/2" (114)	3 1/4" (83)	4	5/8" (16)	11/16" (17)	-	2 1/4" (57)	1/16" (2)	5/8" (16)	3/8" (10)	1/2" (13)	-

Metric dimensions are given in millimetres. Imperial dimensions are followed by their approximate metric equivalent in brackets.
(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) Flange thicknesses for copper alloy are from BS4504.
(3) Copper alloy flanges are always flat-faced.

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DN20 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter	Raised Face Diameter Cast Iron (3)	Raised Face Diameter Steel (3)	Raised Face Height (3)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092												
PN 6	90	65	4	M10	11	48	50	2	14 (1)	-	14	-
PN 10	105	75	4	M12	14	56	58	2	16 (1)	-	18	16
PN 16	105	75	4	M12	14	56	58	2	16 (1)	6 (2)	18	16
PN 25	105	75	4	M12	14	56	58	2	18 (1)	8 (2)	18	16
PN 40	105	75	4	M12	14	56	58	2	-	9 (2)	18	18
PN 64	130	90	4	M16	18	-	58	2	-	-	22	-
PN 100	130	90	4	M16	18	-	58	2	-	-	22	-
ANSI												
Class 125/150	3 7/8" (98)	2 3/4" (70)	4	1/2" (13)	5/8" (16)	-	1 11/16" (43)	1/16" (2)	-	11/32" (9)	9/16" (14)	-
Class 300	4 5/8" (117)	3 1/4" (83)	4	5/8" (16)	3/4" (19)	-	1 11/16" (43)	1/16" (2)	-	17/32" (13)	5/8" (16)	-
Class 600	4 5/8" (117)	3 1/4" (83)	4	5/8" (16)	3/4" (19)	-	1 11/16" (43)	1/4" (6)	-	-	5/8" (16)	-
Class 900	5 1/8" (130)	3 1/2" (89)	4	3/4" (19)	7/8" (22)	-	1 11/16" (43)	1/4" (6)	-	-	1" (25)	-
Class 1500	5 1/8" (130)	3 1/2" (89)	4	3/4" (19)	7/8" (22)	-	1 11/16" (43)	1/4" (6)	-	-	1" (25)	-
BS 10												
Table A	4" (102)	2 7/8" (73)	4	1/2" (13)	9/16" (14)	-	-	-	1/2" (13)	1/4" (6)	-	-
Table D	4" (102)	2 7/8" (73)	4	1/2" (13)	9/16" (14)	-	-	-	1/2" (13)	1/4" (6)	3/8" (10)	-
Table E	4" (102)	2 7/8" (73)	4	1/2" (13)	9/16" (14)	-	-	-	1/2" (13)	1/4" (6)	3/8" (10)	-
Table F	4" (102)	2 7/8" (73)	4	1/2" (13)	9/16" (14)	-	-	-	1/2" (13)	5/16" (8)	3/8" (10)	-
Table H	4 1/2" (114)	3 1/4" (83)	4	5/8" (16)	11/16" (17)	-	2 1/4" (57)	1/16" (2)	5/8" (16)	3/8" (10)	1/2" (13)	-

Metric dimensions are given in millimetres. Imperial dimensions are followed by their approximate metric equivalent in brackets.
(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) Flange thicknesses for copper alloy are from BS4504.
(3) Copper alloy flanges are always flat-faced.

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DN25 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter	Raised Face Diameter Cast Iron (3)	Raised Face Diameter Steel (3)	Raised Face Height Cast Iron (3)	Raised Face Height Steel (3)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092													
PN 6	100	75	4	M10	11	58	60	3	2	14 (1)	-	14	-
PN 10	115	85	4	M12	14	65	68	3	2	16 (1)	-	18	16
PN 16	115	85	4	M12	14	65	68	3	2	16 (1)	8 (2)	18	16
PN 25	115	85	4	M12	14	65	68	3	2	18 (1)	9 (2)	18	16
PN 40	115	85	4	M12	14	65	68	3	2	-	11 (2)	18	18
PN 64	140	100	4	M16	18	-	68	-	2	-	-	24	-
PN 100	140	100	4	M16	18	-	68	-	2	-	-	24	-
ANSI													
Class 125/150	4 1/4" (108)	3 1/8" (79)	4	1/2" (13)	5/8" (16)	-	2" (51)	-	1/16" (2)	7/16" (11)	3/8" (10)	7/16" (11)	9/16" (14)
Class 300	4 7/8" (124)	3 1/2" (89)	4	5/8" (16)	3/4" (19)	-	2" (51)	-	1/16" (2)	-	19/32" (15)	11/16" (17)	-
Class 600	4 7/8" (124)	3 1/2" (89)	4	5/8" (16)	3/4" (19)	-	2" (51)	-	1/4" (6)	-	-	11/16" (17)	-
Class 900	5 7/8" (149)	4" (102)	4	7/8" (22)	1" (25)	-	2" (51)	-	1/4" (6)	-	-	1 1/8" (29)	-
Class 1500	5 7/8" (149)	4" (102)	4	7/8" (22)	1" (25)	-	2" (51)	-	1/4" (6)	-	-	1 1/8" (29)	-
BS 10													
Table A	4 1/2" (114)	3 1/4" (83)	4	1/2" (13)	9/16" (14)	-	-	-	-	1/2" (13)	5/16" (8)	-	-
Table D	4 1/2" (114)	3 1/4" (83)	4	1/2" (13)	9/16" (14)	-	-	-	-	1/2" (13)	5/16" (8)	3/8" (10)	-
Table E	4 1/2" (114)	3 1/4" (83)	4	1/2" (13)	9/16" (14)	-	-	-	-	1/2" (13)	5/16" (8)	3/8" (10)	-
Table F	4 3/4" (121)	3 7/16" (87)	4	5/8" (16)	11/16" (17)	-	-	-	-	1/2" (13)	3/8" (10)	3/8" (10)	-
Table H	4 3/4" (121)	3 7/16" (87)	4	5/8" (16)	11/16" (17)	-	2 1/2" (64)	-	1/16" (2)	3/4" (19)	7/16" (11)	9/16" (14)	-

Metric dimensions are given in millimetres. Imperial dimensions are followed by their approximate metric equivalent in brackets.
(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) Flange thicknesses for copper alloy are from BS4504.
(3) Copper alloy flanges are always flat-faced.

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DN32 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (3)	Raised Face Diameter Steel (3)	Raised Face Height Cast Iron (3)	Raised Face Height Steel (3)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	120	90	4	M12	14	14	69	70	3	2	16 (1)	-	14	-
PN 10	140	100	4	M16	19	18	76	78	3	2	18 (1)	-	18	18
PN 16	140	100	4	M16	19	18	76	78	3	2	18 (1)	8 (2)	18	18
PN 25	140	100	4	M16	19	18	76	78	3	2	20 (1)	9 (2)	18	18
PN 40	140	100	4	M16	19	18	76	78	3	2	-	11 (2)	18	20
PN 64	155	110	4	M20	-	22	-	78	-	2	-	-	26	-
PN 100	155	110	4	M20	-	22	-	78	-	2	-	-	26	-
ANSI														
Class 125/150	4 5/8" (117)	3 1/2" (89)	4	1/2" (13)	5/8" (16)	5/8" (16)	-	2 1/2" (64)	-	1/16" (2)	1/2" (13)	13/32" (10)	1/2" (13)	5/8" (16)
Class 300	5 1/4" (133)	3 7/8" (98)	4	5/8" (16)	-	3/4" (19)	-	2 1/2" (64)	-	1/16" (2)	-	5/8" (16)	3/4" (19)	-
Class 600	5 1/4" (133)	3 7/8" (98)	4	5/8" (16)	-	3/4" (19)	-	2 1/2" (64)	-	1/4" (6)	-	-	13/16" (21)	-
Class 900	6 1/4" (159)	4 3/8" (111)	4	7/8" (22)	-	1" (25)	-	2 1/2" (64)	-	1/4" (6)	-	-	1 1/8" (29)	-
Class 1500	6 1/4" (159)	4 3/8" (111)	4	7/8" (22)	-	1" (25)	-	2 1/2" (64)	-	1/4" (6)	-	-	1 1/8" (29)	-
BS 10														
Table A	4 3/4" (121)	3 7/16" (87)	4	1/2" (13)	9/16" (14)	9/16" (14)	-	-	-	-	5/8" (16)	5/16" (8)	-	-
Table D	4 3/4" (121)	3 7/16" (87)	4	1/2" (13)	9/16" (14)	9/16" (14)	-	-	-	-	5/8" (16)	5/16" (8)	1/2" (13)	-
Table E	4 3/4" (121)	3 7/16" (87)	4	1/2" (13)	9/16" (14)	9/16" (14)	-	-	-	-	5/8" (16)	5/16" (8)	1/2" (13)	-
Table F	5 1/4" (133)	3 7/8" (98)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	5/8" (16)	3/8" (10)	1/2" (13)	-
Table H	5 1/4" (133)	3 7/8" (98)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	3" (76)	-	1/16" (2)	7/8" (22)	7/16" (11)	11/16" (17)	-

Metric dimensions are given in millimetres. Imperial dimensions are followed by their approximate metric equivalent in brackets.
(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) Flange thicknesses for copper alloy are from BS4504.
(3) Copper alloy flanges are always flat-faced.

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DN40 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (3)	Raised Face Diameter Steel (3)	Raised Face Height Cast Iron (3)	Raised Face Height Steel (3)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	130	100	4	M12	14	14	78	80	3	2	16 (1)	-	14	-
PN 10	150	110	4	M16	19	18	84	88	3	2	18 (1)	-	18	19
PN 16	150	110	4	M16	19	18	84	88	3	2	18 (1)	9 (2)	18	19
PN 25	150	110	4	M16	19	18	84	88	3	2	20 (1)	11 (2)	18	19
PN 40	150	110	4	M16	19	18	84	88	3	2	-	13 (2)	18	19
PN 64	170	125	4	M20	-	22	-	88	-	2	-	-	28	-
PN 100	170	125	4	M20	-	22	-	88	-	2	-	-	28	-
ANSI														
Class 125/150	5" (127)	3 7/8" (98)	4	1/2" (13)	5/8" (16)	5/8" (16)	-	2 7/8" (73)	-	1/16" (2)	9/16" (14)	7/16" (11)	9/16" (14)	11/16" (17)
Class 300	6 1/8" (156)	4 1/2" (114)	4	3/4" (19)	-	7/8" (22)	-	2 7/8" (73)	-	1/16" (2)	-	11/16" (17)	13/16" (21)	-
Class 600	6 1/8" (156)	4 1/2" (114)	4	3/4" (19)	-	7/8" (22)	-	2 7/8" (73)	-	1/4" (6)	-	-	7/8" (22)	-
Class 900	7" (178)	4 7/8" (124)	4	1" (25)	-	1 1/8" (29)	-	2 7/8" (73)	-	1/4" (6)	-	-	1 1/4" (32)	-
Class 1500	7" (178)	4 7/8" (124)	4	1" (25)	-	1 1/8" (29)	-	2 7/8" (73)	-	1/4" (6)	-	-	1 1/4" (32)	-
BS 10														
Table A	5 1/4" (133)	3 7/8" (98)	4	1/2" (13)	9/16" (14)	9/16" (14)	-	-	-	-	5/8" (16)	3/8" (10)	-	-
Table D	5 1/4" (133)	3 7/8" (98)	4	1/2" (13)	9/16" (14)	9/16" (14)	-	-	-	-	5/8" (16)	3/8" (10)	1/2" (13)	-
Table E	5 1/4" (133)	3 7/8" (98)	4	1/2" (13)	9/16" (14)	9/16" (14)	-	-	-	-	5/8" (16)	3/8" (10)	1/2" (13)	-
Table F	5 1/2" (140)	4 1/8" (105)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	5/8" (16)	7/16" (11)	1/2" (13)	-
Table H	5 1/2" (140)	4 1/8" (105)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	3 1/4" (83)	-	1/16" (2)	7/8" (22)	1/2" (13)	11/16" (17)	-

Metric dimensions are given in millimetres. Imperial dimensions are followed by their approximate metric equivalent in brackets.
(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) Flange thicknesses for copper alloy are from BS4504.
(3) Copper alloy flanges are always flat-faced.

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DN50 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (3)	Raised Face Diameter Steel (3)	Raised Face Height Cast Iron (3)	Raised Face Height Steel (3)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	140	110	4	M12	14	14	88	90	3	2	16 (1)	-	14	-
PN 10	165	125	4	M16	19	18	99	102	3	2	20 (1)	-	18	19
PN 16	165	125	4	M16	19	18	99	102	3	2	20 (1)	11 (2)	18	19
PN 25	165	125	4	M16	19	18	99	102	3	2	22 (1)	11 (2)	20	19
PN 40	165	125	4	M16	19	18	99	102	3	2	-	13 (2)	20	19
PN 64	180	135	4	M20	-	22	-	102	-	2	-	-	26	-
PN 100	195	145	4	M24	-	26	-	102	-	2	-	-	30	-
ANSI														
Class 125/150	6" (152)	4 3/4" (121)	4	5/8" (16)	3/4" (19)	3/4" (19)	-	3 5/8" (92)	-	1/16" (2)	5/8" (16)	1/2" (13)	5/8" (16)	-
Class 300	6 1/2" (165)	5" (127)	8	5/8" (16)	-	3/4" (19)	-	3 5/8" (92)	-	1/16" (2)	-	3/4" (19)	7/8" (22)	-
Class 600	6 1/2" (165)	5" (127)	8	5/8" (16)	-	3/4" (19)	-	3 5/8" (92)	-	1/4" (6)	-	-	1" (25)	-
Class 900	8 1/2" (216)	6 1/2" (165)	8	7/8" (22)	-	1" (25)	-	3 5/8" (92)	-	1/4" (6)	-	-	1 1/2" (38)	-
Class 1500	8 1/2" (216)	6 1/2" (165)	8	7/8" (22)	-	1" (25)	-	3 5/8" (92)	-	1/4" (6)	-	-	1 1/2" (38)	-
BS 10														
Table A	6" (152)	4 1/2" (114)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	5/8" (16)	3/8" (10)	-	-
Table D	6" (152)	4 1/2" (114)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	11/16" (17)	3/8" (10)	9/16" (14)	-
Table E	6" (152)	4 1/2" (114)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	3/4" (19)	3/8" (10)	9/16" (14)	-
Table F	6 1/2" (165)	5" (127)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	3/4" (19)	7/16" (11)	5/8" (16)	-
Table H	6 1/2" (165)	5" (127)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	4" (102)	-	1/16" (2)	1" (25)	1/2" (13)	3/4" (19)	-

Metric dimensions are given in millimetres. Imperial dimensions are followed by their approximate metric equivalent in brackets.
(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) Flange thicknesses for copper alloy are from BS4504.
(3) Copper alloy flanges are always flat-faced.

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DN65 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (3)	Raised Face Diameter Steel (3)	Raised Face Height Cast Iron (3)	Raised Face Height Steel (3)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	160	130	4	M12	14	14	108	110	2	3	16 (1)	-	14	-
PN 10	185	145	4 (4)	M16	19	18	118	122	2	3	20 (1)	-	18	19
PN 16	185	145	4 (4)	M16	19	18	118	122	2	3	20 (1)	13 (2)	18	19
PN 25	185	145	8	M16	19	18	118	122	2	3	24 (1)	13 (2)	22	19
PN 40	185	145	8	M16	19	18	118	122	2	3	-	14 (2)	22	19
PN 64	205	160	8	M20	-	22	-	122	2	-	-	-	26	-
PN 100	220	170	8	M24	-	26	-	122	2	-	-	-	34	-
ANSI														
Class 125/150	7" (178)	5 1/2" (140)	4	5/8" (16)	3/4" (19)	3/4" (19)	-	4 1/8" (105)	-	1/16" (2)	11/16" (17)	9/16" (14)	11/16" (17)	-
Class 300	7 1/2" (191)	5 7/8" (149)	8	3/4" (19)	-	7/8" (22)	-	4 1/8" (105)	-	1/16" (2)	-	13/16" (21)	1" (25)	-
Class 600	7 1/2" (191)	5 7/8" (149)	8	3/4" (19)	-	7/8" (22)	-	4 1/8" (105)	-	1/4" (6)	-	-	1 1/8" (29)	-
Class 900	9 5/8" (244)	7 1/2" (191)	8	1" (25)	-	1 1/8" (29)	-	4 1/8" (105)	-	1/4" (6)	-	-	1 5/8" (41)	-
Class 1500	9 5/8" (244)	7 1/2" (191)	8	1" (25)	-	1 1/8" (29)	-	4 1/8" (105)	-	1/4" (6)	-	-	1 5/8" (41)	-
BS 10														
Table A	6 1/2" (165)	5" (127)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	11/16" (17)	7/16" (11)	-	-
Table D	6 1/2" (165)	5" (127)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	11/16" (17)	7/16" (11)	9/16" (14)	-
Table E	6 1/2" (165)	5" (127)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	3/4" (19)	7/16" (11)	9/16" (14)	-
Table F	7 1/4" (184)	5 3/4" (146)	8	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	3/4" (19)	1/2" (13)	5/8" (16)	-
Table H	7 1/4" (184)	5 3/4" (146)	8	5/8" (16)	11/16" (17)	11/16" (17)	-	4 1/2" (114)	-	1/16" (2)	1" (25)	9/16" (14)	3/4" (19)	-

Metric dimensions are given in millimetres. Imperial dimensions are followed by their approximate metric equivalent in brackets.
(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) Flange thicknesses for copper alloy are from BS4504.
(3) Copper alloy flanges are always flat-faced.
(4) Steel flanges in this DN and PN may be supplied with 8 holes. For compliance with these, equivalent cast iron flanges may be supplied with 8 holes as special order and after agreement between manufacturer and customer.

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DN80 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (3)	Raised Face Diameter Steel (3)	Raised Face Height Cast Iron (3)	Raised Face Height Steel (3)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	190	150	4	M16	19	18	124	128	3	2	18 (1)	-	16	-
PN 10	200	160	8	M16	19	18	132	138	3	2	22 (1)	-	20	19
PN 16	200	160	8	M16	19	18	132	138	3	2	22 (1)	13 (2)	20	19
PN 25	200	160	8	M16	19	18	132	138	3	2	26 (1)	14 (2)	24	19
PN 40	200	160	8	M16	19	18	132	138	3	2	-	16 (2)	24	19
PN 64	215	170	8	M20	-	22	-	138	-	2	-	-	28	-
PN 100	230	180	8	M24	-	26	-	138	-	2	-	-	36	-
ANSI														
Class 125/150	7 1/2" (191)	6" (152)	4	5/8" (16)	3/4" (19)	3/4" (19)	-	5" (127)	-	1/16" (2)	3/4" (19)	5/8" (16)	3/4" (19)	-
Class 300	8 1/4" (210)	6 5/8" (168)	8	3/4" (19)	-	7/8" (22)	-	5" (127)	-	1/16" (2)	-	29/32" (23)	1 1/8" (29)	-
Class 600	8 1/4" (210)	6 5/8" (168)	8	3/4" (19)	-	7/8" (22)	-	5" (127)	-	1/4" (6)	-	-	1 1/4" (32)	-
Class 900	9 1/2" (241)	7 1/2" (192)	8	7/8" (22)	-	1" (25)	-	5" (127)	-	1/4" (6)	-	-	1 1/2" (38)	-
Class 1500	10 1/2" (267)	8" (203)	8	1 1/8" (29)	-	1 1/4" (32)	-	5" (127)	-	1/4" (6)	-	-	1 7/8" (48)	-
BS 10														
Table A	7 1/4" (184)	5 3/4" (146)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	11/16" (17)	1/2" (13)	-	-
Table D	7 1/4" (184)	5 3/4" (146)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	3/4" (19)	1/2" (13)	9/16" (14)	-
Table E	7 1/4" (184)	5 3/4" (146)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	3/4" (19)	1/2" (13)	9/16" (14)	-
Table F	8" (203)	6 1/2" (165)	8	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	3/4" (19)	9/16" (14)	5/8" (16)	-
Table H	8" (203)	6 1/2" (165)	8	5/8" (16)	11/16" (17)	11/16" (17)	-	5" (127)	-	1/16" (2)	1 1/8" (29)	5/8" (16)	7/8" (22)	-

Metric dimensions are given in millimetres. Imperial dimensions are followed by their approximate metric equivalent in brackets.
(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) Flange thicknesses for copper alloy are from BS4504.
(3) Copper alloy flanges are always flat-faced.

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DN100 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (3)	Raised Face Diameter Steel (3)	Raised Face Height Cast Iron (3)	Raised Face Height Steel (3)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	210	170	4	M16	19	18	144	148	3	2	18 (1)	-	16	-
PN 10	220	180	8	M16	19	18	156	158	3	2	24 (1)	-	20	19
PN 16	220	180	8	M16	19	18	156	158	3	2	24 (1)	16 (2)	20	19
PN 25	235	190	8	M20	23	22	156	162	3	2	28 (1)	17 (2)	24	19
PN 40	235	190	8	M20	23	22	156	162	3	2	-	19 (2)	24	19
PN 64	250	200	8	M24	-	26	-	162	-	2	-	-	30	-
PN 100	265	210	8	M27	-	30	-	162	-	2	-	-	40	-
ANSI														
Class 125/150	9" (229)	7 1/2" (191)	8	5/8" (16)	3/4" (19)	3/4" (19)	-	6 3/16" (157)	-	1/16" (2)	15/16" (24)	11/16" (17)	15/16" (24)	-
Class 300	10" (254)	7 7/8" (200)	8	3/4" (19)	-	7/8" (22)	-	6 3/16" (157)	-	1/16" (2)	-	1 1/16" (27)	1 1/4" (32)	-
Class 600	10 3/4" (273)	8 1/2" (216)	8	7/8" (22)	-	1" (25)	-	6 3/16" (157)	-	1/4" (6)	-	-	1 1/2" (38)	-
Class 900	11 1/2" (292)	9 1/4" (235)	8	1 1/8" (29)	-	1 1/4" (32)	-	6 3/16" (157)	-	1/4" (6)	-	-	1 3/4" (44)	-
Class 1500	12 1/4" (311)	9 1/2" (241)	8	1 1/4" (32)	-	1 3/8" (35)	-	6 3/16" (157)	-	1/4" (6)	-	-	2 1/8" (54)	-
BS 10														
Table A	8 1/2" (216)	7" (178)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	3/4" (19)	5/8" (16)	-	-
Table D	8 1/2" (216)	7" (178)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	3/4" (19)	5/8" (16)	11/16" (17)	-
Table E	8 1/2" (216)	7" (178)	8	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	7/8" (22)	5/8" (16)	11/16" (17)	-
Table F	9" (229)	7 1/2" (191)	8	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	7/8" (22)	11/16" (17)	3/4" (19)	-
Table H	9" (229)	7 1/2" (191)	8	5/8" (16)	11/16" (17)	11/16" (17)	-	6" (152)	-	1/16" (2)	1 1/4" (32)	3/4" (19)	1" (25)	-

Metric dimensions are given in millimetres. Imperial dimensions are followed by their approximate metric equivalent in brackets.
(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) Flange thicknesses for copper alloy are from BS4504.
(3) Copper alloy flanges are always flat-faced.

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DN125 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (2)	Raised Face Diameter Steel (2)	Raised Face Height Cast Iron (2)	Raised Face Height Steel (2)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	240	200	8	M16	19	18	174	178	3	2	20 (1)	-	18	-
PN 10	250	210	8	M16	19	18	184	188	3	2	26 (1)	-	22	19
PN 16	250	210	8	M16	19	18	184	188	3	2	26 (1)	-	22	19
PN 25	270	220	8	M24	28	26	184	188	3	2	30 (1)	-	26	19
PN 40	270	220	8	M24	28	26	184	188	3	2	-	-	26	23.5
PN 64	295	240	8	M27	-	30	-	188	-	2	-	-	34	-
PN 100	315	250	8	M30	-	33	-	188	-	2	-	-	40	-
ANSI														
Class 125/150	10" (254)	8 1/2" (216)	8	3/4" (19)	7/8" (22)	7/8" (22)	-	7 5/16" (186)	-	1/16" (2)	15/16" (24)	3/4" (19)	15/16" (24)	-
Class 300	11" (279)	9 1/4" (235)	8	3/4" (19)	-	7/8" (22)	-	7 5/16" (186)	-	1/16" (2)	-	1 1/8" (29)	1 3/8" (35)	-
Class 600	13" (330)	10 1/2" (267)	8	1" (25)	-	1 1/8" (29)	-	7 5/16" (186)	-	1/4" (6)	-	-	1 3/4" (44)	-
Class 900	13 3/4" (349)	11" (279)	8	1 1/4" (32)	-	1 3/8" (35)	-	7 5/16" (186)	-	1/4" (6)	-	-	2" (51)	-
Class 1500	14 3/4" (375)	11 1/2" (292)	8	1 1/2" (38)	-	1 5/8" (41)	-	7 5/16" (186)	-	1/4" (6)	-	-	2 7/8" (73)	-
BS 10														
Table A	10" (254)	8 1/4" (210)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	3/4" (19)	11/16" (17)	-	-
Table D	10" (254)	8 1/4" (210)	8	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	13/16" (21)	11/16" (17)	11/16" (17)	-
Table E	10" (254)	8 1/4" (210)	8	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	7/8" (22)	11/16" (17)	11/16" (17)	-
Table F	11" (279)	9 1/4" (235)	8	3/4" (19)	7/8" (22)	7/8" (22)	-	-	-	-	1" (25)	3/4" (19)	7/8" (22)	-
Table H	11" (279)	9 1/4" (235)	8	3/4" (19)	7/8" (22)	7/8" (22)	-	7" (178)	-	1/16" (2)	1 3/8" (35)	7/8" (22)	1 1/8" (29)	-

Metric dimensions are given in millimetres. Imperial dimensions are followed by their approximate metric equivalent in brackets.
(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) Copper alloy flanges are always flat-faced.

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DN150 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (2)	Raised Face Diameter Steel (2)	Raised Face Height Cast Iron (2)	Raised Face Height Steel (2)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	265	225	8	M16	19	18	199	202	3	2	20 (1)	-	18	-
PN 10	285	240	8	M20	23	22	211	212	3	2	26 (1)	-	22	19
PN 16	285	240	8	M20	23	22	211	212	3	2	26 (1)	-	22	19
PN 25	300	250	8	M24	28	26	211	218	3	2	34 (1)	-	28	20
PN 40	300	250	8	M24	28	26	211	218	3	2	-	-	28	26
PN 64	345	280	8	M30	-	33	-	218	-	2	-	-	36	-
PN 100	355	290	12	M30	-	33	-	218	-	2	-	-	44	-
ANSI														
Class 125/150	11" (279)	9 1/2" (241)	8	3/4" (19)	7/8" (22)	7/8" (22)	-	8 1/2" (216)	-	1/16" (2)	1" (25)	13/16" (21)	1" (25)	-
Class 300	12 1/2" (318)	10 5/8" (270)	12	3/4" (19)	-	7/8" (22)	-	8 1/2" (216)	-	1/16" (2)	-	1 3/16" (30)	1 7/16" (37)	-
Class 600	14" (356)	11 1/2" (292)	12	1" (25)	-	1 1/8" (29)	-	8 1/2" (216)	-	1/4" (6)	-	-	1 7/8" (48)	-
Class 900	15" (381)	12 1/2" (318)	12	1 1/8" (29)	-	1 1/4" (32)	-	8 1/2" (216)	-	1/4" (6)	-	-	2 3/16" (56)	-
Class 1500	15 1/2" (394)	12 1/2" (318)	12	1 3/8" (35)	-	1 1/2" (38)	-	8 1/2" (216)	-	1/4" (6)	-	-	3 1/4" (83)	-
BS 10														
Table A	11" (279)	9 1/4" (235)	4	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	13/16" (21)	11/16" (17)	-	-
Table D	11" (279)	9 1/4" (235)	8	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	13/16" (21)	11/16" (17)	11/16" (17)	-
Table E	11" (279)	9 1/4" (235)	8	3/4" (19)	7/8" (22)	7/8" (22)	-	-	-	-	7/8" (22)	11/16" (17)	11/16" (17)	-
Table F	12" (305)	10 1/4" (260)	12	3/4" (19)	7/8" (22)	7/8" (22)	-	-	-	-	1" (25)	7/8" (22)	7/8" (22)	-
Table H	12" (305)	10 1/4" (260)	12	3/4" (19)	7/8" (22)	7/8" (22)	-	8 1/4" (210)	-	1/16" (2)	1 3/8" (35)	1" (25)	1 1/8" (29)	-

Metric dimensions are given in millimetres. Imperial dimensions are followed by their approximate metric equivalent in brackets.
(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) Copper alloy flanges are always flat-faced.

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DN200 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (2)	Raised Face Diameter Steel (2)	Raised Face Height Cast Iron (2)	Raised Face Height Steel (2)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	320	280	8	M16	19	18	254	258	3	2	22 (1)	-	20	-
PN 10	340	295	8	M20	23	22	266	268	3	2	26 (1)	-	24	20
PN 16	340	295	12	M20	23	22	266	268	3	2	30 (1)	-	24	20
PN 25	360	310	12	M24	28	26	274	278	3	2	34 (1)	-	30	22
PN 40	375	320	12	M27	31	30	284	285	3	2	-	-	34	30
PN 64	415	345	12	M33	-	36	-	285	-	2	-	-	42	-
PN 100	430	360	12	M33	-	36	-	285	-	2	-	-	52	-
ANSI														
Class 125/150	13 1/2" (343)	11 3/4" (298)	8	3/4" (19)	7/8" (22)	7/8" (22)	-	10 5/8" (270)	-	1/16" (2)	1 1/8" (29)	15/16" (24)	1 1/8" (29)	-
Class 300	15" (381)	13" (330)	12	7/8" (22)	-	1" (25)	-	10 5/8" (270)	-	1/16" (2)	-	1 3/8" (35)	1 5/8" (41)	-
Class 600	16 1/2" (419)	13 3/4" (349)	12	1 1/8" (29)	-	1 1/4" (32)	-	10 5/8" (270)	-	1/4" (6)	-	-	2 3/16" (56)	-
Class 900	18 1/2" (470)	15 1/2" (394)	12	1 3/8" (35)	-	1 1/2" (38)	-	10 5/8" (270)	-	1/4" (6)	-	-	2 1/2" (64)	-
Class 1500	19" (483)	15 1/2" (394)	12	1 5/8" (41)	-	1 3/4" (44)	-	10 5/8" (270)	-	1/4" (6)	-	-	3 5/8" (92)	-
BS 10														
Table A	13 1/4" (337)	11 1/2" (292)	8	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	7/8" (22)	3/4" (19)	1/2" (13)	-
Table D	13 1/4" (337)	11 1/2" (292)	8	5/8" (16)	11/16" (17)	11/16" (17)	-	-	-	-	7/8" (22)	3/4" (19)	3/4" (19)	-
Table E	13 1/4" (337)	11 1/2" (292)	8	3/4" (19)	7/8" (22)	7/8" (22)	-	-	-	-	1" (25)	3/4" (19)	3/4" (19)	-
Table F	14 1/2" (368)	12 3/4" (324)	12	3/4" (19)	7/8" (22)	7/8" (22)	-	-	-	-	1 1/8" (29)	1" (25)	1" (25)	-
Table H	14 1/2" (368)	12 3/4" (324)	12	3/4" (19)	7/8" (22)	7/8" (22)	-	10 1/4" (260)	-	1/16" (2)	1 1/2" (38)	1 1/4" (32)	1 1/4" (32)	-

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(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) Copper alloy flanges are always flat-faced.

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DN250 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (3)	Raised Face Diameter Steel (3)	Raised Face Height Cast Iron (3)	Raised Face Height Steel (3)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	375	335	12	M16	19	18	309	312	3	2	24 (1)	-	22	-
PN 10	395 (2)	350	12	M20	23	22	319	320	3	2	28 (1)	-	26	22
PN 16	405 (2)	355	12	M24	28	26	319	320	3	2	32 (1)	-	26	22
PN 25	425	370	12	M27	31	30	330	335	3	2	-	-	32	24.5
PN 40	450	385	12	M30	34	33	345	345	3	2	-	-	38	34.5
PN 64	470	400	12	M33	-	36	-	345	-	2	-	-	46	-
PN 100	505	430	12	M36	-	39	-	345	-	2	-	-	60	-
ANSI														
Class 125/150	16" (406)	14 1/4" (362)	12	7/8" (22)	1" (25)	1" (25)	-	12 3/4" (324)	-	1/16" (2)	1 3/16" (30)	1" (25)	1 3/16" (30)	-
Class 300	17 1/2" (445)	15 1/4" (387)	16	1" (25)	-	1 1/8" (29)	-	12 3/4" (324)	-	1/16" (2)	-	-	1 7/8" (41)	-
Class 600	20" (508)	17" (432)	16	1 1/4" (32)	-	1 3/8" (35)	-	12 3/4" (324)	-	1/4" (6)	-	-	2 1/2" (64)	-
Class 900	21 1/2" (546)	18 1/2" (470)	16	1 3/8" (35)	-	1 1/2" (38)	-	12 3/4" (324)	-	1/4" (6)	-	-	2 3/4" (70)	-
Class 1500	23" (584)	19" (483)	12	1 7/8" (41)	-	2" (51)	-	12 3/4" (324)	-	1/4" (6)	-	-	4 1/4" (108)	-
BS 10														
Table A	16" (406)	14" (356)	8	3/4" (19)	7/8" (22)	7/8" (22)	-	-	-	-	15/16" (24)	3/4" (19)	-	-
Table D	16" (406)	14" (356)	8	3/4" (19)	7/8" (22)	7/8" (22)	-	-	-	-	1" (25)	3/4" (19)	3/4" (19)	-
Table E	16" (406)	14" (356)	12	3/4" (19)	7/8" (22)	7/8" (22)	-	-	-	-	1" (25)	7/8" (22)	7/8" (22)	-
Table F	17" (432)	15" (381)	12	7/8" (22)	1" (25)	1" (25)	-	-	-	-	1 1/8" (29)	1" (25)	1" (25)	-
Table H	17" (432)	15" (381)	12	7/8" (22)	1" (25)	1" (25)	-	12 1/4" (311)	-	1/16" (2)	1 5/8" (41)	1 3/8" (35)	1 3/8" (35)	-

Metric dimensions are given in millimetres. Imperial dimensions are followed by their approximate metric equivalent in brackets.
(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) For ductile iron pipes and fittings the outside diameters shall be 400mm for PN10 & PN16.
(3) Copper alloy flanges are always flat-faced.

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DN300 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (3)	Raised Face Diameter Steel (3)	Raised Face Height Cast Iron (3)	Raised Face Height Steel (3)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	440	395	12	M20	23	22	363	365	4	2	24 (1)	-	22	-
PN 10	445 (2)	400	12	M20	23	22	370	370	4	2	28 (1)	-	26	24.5
PN 16	460 (2)	410	12	M24	28	26	370	378	4	2	32 (1)	-	28	24.5
PN 25	485	430	16	M27	31	30	389	395	4	2	40 (1)	-	34	27.5
PN 40	515	450	16	M30	34	33	409	410	4	2	-	-	42	39.5
PN 64	530	460	16	M33	-	36	-	410	-	2	-	-	52	-
PN 100	585	500	16	M39	-	42	-	410	-	2	-	-	68	-
ANSI														
Class 125/150	19" (483)	17" (432)	12	7/8" (22)	1" (25)	1" (25)	-	15" (381)	-	1/16" (2)	1 1/4" (32)	1 1/16" (27)	1 1/4" (32)	-
Class 300	20 1/2" (521)	17 3/4" (451)	16	1 1/8" (29)	-	1 1/4" (32)	-	15" (381)	-	1/16" (2)	-	-	2" (51)	-
Class 600	22" (559)	19 1/4" (489)	20	1 1/4" (32)	-	1 3/8" (35)	-	15" (381)	-	1/4" (6)	-	-	2 5/8" (67)	-
Class 900	24" (610)	21" (533)	20	1 3/8" (35)	-	1 1/2" (38)	-	15" (381)	-	1/4" (6)	-	-	3 1/8" (80)	-
Class 1500	26 1/2" (673)	22 1/2" (571)	16	2" (51)	-	2 1/8" (54)	-	15" (381)	-	1/4" (6)	-	-	4 7/8" (124)	-
BS 10														
Table A	18" (457)	16" (406)	8	3/4" (19)	7/8" (22)	7/8" (22)	-	-	-	-	15/16" (24)	7/8" (22)	-	-
Table D	18" (457)	16" (406)	12	3/4" (19)	7/8" (22)	7/8" (22)	-	-	-	-	1" (25)	7/8" (22)	7/8" (22)	-
Table E	18" (457)	16" (406)	12	7/8" (22)	1" (25)	1" (25)	-	-	-	-	1 1/8" (29)	1" (25)	1" (25)	-
Table F	19 1/4" (489)	17 1/4" (438)	16	7/8" (22)	1" (25)	1" (25)	-	-	-	-	1 1/4" (32)	1 1/8" (29)	1 1/8" (29)	-
Table H	19 1/4" (489)	17 1/4" (438)	16	7/8" (22)	1" (25)	1" (25)	-	14 1/4" (362)	-	1/16" (2)	1 3/4" (44)	1 1/2" (38)	1 1/2" (38)	-

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(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) For ductile iron pipes and fittings the outside diameters shall be 455mm for PN10 & PN16.
(3) Copper alloy flanges are always flat-faced.

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DN350 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (2)	Raised Face Diameter Steel (2)	Raised Face Height Cast Iron (2)	Raised Face Height Steel (2)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	490	445	12	M20	23	22	413	415	4	2	26 (1)	-	22	-
PN 10	505	460	16	M20	23	22	429	430	4	2	30 (1)	-	26	24.5
PN 16	520	470	16	M24	28	26	429	438	4	2	36 (1)	-	30	26.5
PN 25	555	490	16	M30	34	33	448	450	4	2	44 (1)	-	38	30
PN 40	580	510	16	M33	37	36	465	465	4	2	-	-	46	44
PN 64	600	525	16	M36	-	39	-	465	-	2	-	-	56	-
PN 100	655	560	16	M45	-	48	-	465	-	2	-	-	74	-
ANSI														
Class 125/150	21" (533)	18 3/4" (476)	12	1" (25)	1 1/8" (29)	1 1/8" (29)	-	16 1/4" (413)	-	1/16" (2)	1 3/8" (35)	-	1 3/8" (35)	-
Class 300	23" (584)	20 1/4" (514)	20	1 1/8" (29)	-	1 1/4" (32)	-	16 1/4" (413)	-	1/16" (2)	-	-	2 1/8" (54)	-
Class 600	23 3/4" (603)	20 3/4" (527)	20	1 3/8" (35)	-	1 1/2" (38)	-	16 1/4" (413)	-	1/4" (6)	-	-	2 3/4" (70)	-
Class 900	25 1/4" (641)	22" (559)	20	1 1/2" (38)	-	1 5/8" (41)	-	16 1/4" (413)	-	1/4" (6)	-	-	3 3/8" (86)	-
Class 1500	29 1/2" (749)	25" (635)	16	2 1/4" (57)	-	2 3/8" (60)	-	16 1/4" (413)	-	1/4" (6)	-	-	5 1/4" (133)	-
BS 10														
Table A	20 3/4" (527)	18 1/2" (470)	8	7/8" (22)	1" (25)	1" (25)	-	-	-	-	1" (25)	1" (25)	-	-
Table D	20 3/4" (527)	18 1/2" (470)	12	7/8" (22)	1" (25)	1" (25)	-	-	-	-	1 1/8" (29)	1" (25)	1" (25)	-
Table E	20 3/4" (527)	18 1/2" (470)	12	7/8" (22)	1" (25)	1" (25)	-	-	-	-	1 1/4" (32)	1" (25)	1" (25)	-
Table F	21 3/4" (552)	19 1/2" (495)	16	1" (25)	1 1/8" (29)	1 1/8" (29)	-	-	-	-	1 3/8" (35)	1 1/4" (32)	1 1/4" (32)	-
Table H	21 3/4" (552)	19 1/2" (495)	16	1" (25)	1 1/8" (29)	1 1/8" (29)	-	16 1/2" (419)	-	1/16" (2)	1 7/8" (48)	1 5/8" (41)	1 5/8" (41)	-

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(2) Copper alloy flanges are always flat-faced.

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DN400 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (2)	Raised Face Diameter Steel (2)	Raised Face Height Cast Iron (2)	Raised Face Height Steel (2)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	540	495	16	M20	23	22	463	465	4	2	28 (1)	-	22	-
PN 10	565	515	16	M24	28	26	480	482	4	2	32 (1)	-	26	24.5
PN 16	580	525	16	M27	31	30	480	490	4	2	38 (1)	-	32	28
PN 25	620	550	16	M33	37	36	503	505	4	2	48 (1)	-	40	32
PN 40	660	585	16	M36	41	39	535	535	4	2	-	-	50	48
PN 64	670	585	16	M39	-	42	-	535	-	2	-	-	60	-
PN 100	715	620	16	M45	-	48	-	535	-	2	-	-	78	-
ANSI														
Class 125/150	23 1/2" (597)	21 1/4" (540)	16	1" (25)	1 1/8" (29)	1 1/8" (29)	-	18 1/2" (470)	-	1/16" (2)	1 7/16" (37)	-	1 7/16" (37)	-
Class 300	25 1/2" (648)	22 1/2" (572)	20	1 1/4" (32)	-	1 3/8" (35)	-	18 1/2" (470)	-	1/16" (2)	-	-	2 1/4" (57)	-
Class 600	27" (686)	23 3/4" (603)	20	1 1/2" (38)	-	1 5/8" (41)	-	18 1/2" (470)	-	1/4" (6)	-	-	3" (76)	-
Class 900	27 3/4" (705)	24 1/4" (616)	20	1 5/8" (41)	-	1 3/4" (44)	-	18 1/2" (470)	-	1/4" (6)	-	-	3 1/2" (89)	-
Class 1500	32 1/2" (826)	27 3/4" (705)	16	2 1/2" (64)	-	2 5/8" (67)	-	18 1/2" (470)	-	1/4" (6)	-	-	5 3/4" (146)	-
BS 10														
Table A	22 3/4" (578)	20 1/2" (521)	12	7/8" (22)	1" (25)	1" (25)	-	-	-	-	1 1/16" (27)	1" (25)	-	-
Table D	22 3/4" (578)	20 1/2" (521)	12	7/8" (22)	1" (25)	1" (25)	-	-	-	-	1 1/8" (29)	1" (25)	1" (25)	-
Table E	22 3/4" (578)	20 1/2" (521)	12	7/8" (22)	1" (25)	1" (25)	-	-	-	-	1 1/4" (32)	1" (25)	1" (25)	-
Table F	24" (610)	21 3/4" (552)	20	1" (25)	1 1/8" (29)	1 1/8" (29)	-	-	-	-	1 3/8" (35)	1 1/4" (32)	1 1/4" (32)	-
Table H	24" (610)	21 3/4" (552)	20	1" (25)	1 1/8" (29)	1 1/8" (29)	-	19" (483)	-	1/16" (2)	2" (51)	1 3/4" (44)	1 3/4" (44)	-

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(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) Copper alloy flanges are always flat-faced.

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DN450 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (2)	Raised Face Diameter Steel (2)	Raised Face Height Cast Iron (2)	Raised Face Height Steel (2)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	595	550	16	M20	23	22	518	520	4	2	28 (1)	-	22	-
PN 10	615	565	20	M24	28	26	530	532	4	2	32 (1)	-	28	25.5
PN 16	640	585	20	M27	31	30	548	550	4	2	40 (1)	-	40	30
PN 25	670	600	20	M33	37	36	548	555	4	2	50 (1)	-	46	34.5
PN 40	685	610	20	M36	41	39	560	560	4	2	-	-	57	49
PN 64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PN 100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANSI														
Class 125/150	25" (635)	22 3/4" (578)	16	1 1/8" (29)	1 1/4" (32)	1 1/4" (32)	-	21" (533)	-	1/16" (2)	1 9/16" (40)	-	1 9/16" (40)	-
Class 300	28" (711)	24 3/4" (629)	24	1 1/4" (32)	-	1 3/8" (35)	-	21" (533)	-	1/16" (2)	-	-	2 3/8" (60)	-
Class 600	29 1/4" (743)	25 3/4" (654)	20	1 5/8" (41)	-	1 3/4" (44)	-	21" (533)	-	1/4" (6)	-	-	3 1/4" (83)	-
Class 900	31" (787)	27" (686)	20	1 7/8" (48)	-	2" (51)	-	21" (533)	-	1/4" (6)	-	-	4" (102)	-
Class 1500	36" (914)	30 1/2" (775)	16	2 3/4" (70)	-	2 7/8" (73)	-	21" (533)	-	1/4" (6)	-	-	6 3/8" (162)	-
BS 10														
Table A	25 1/4" (641)	23" (584)	12	7/8" (22)	-	1" (25)	-	-	-	-	1 1/16" (27)	1 1/16" (27)	-	-
Table D	25 1/4" (641)	23" (584)	12	7/8" (22)	-	1" (25)	-	-	-	-	1 1/4" (32)	1 1/8" (29)	1 1/8" (29)	-
Table E	25 1/4" (641)	23" (584)	16	7/8" (22)	-	1" (25)	-	-	-	-	1 3/8" (35)	1 1/8" (29)	1 1/8" (29)	-
Table F	26 1/2" (673)	24" (610)	20	1 1/8" (29)	-	1 1/4" (32)	-	-	-	-	1 1/2" (38)	1 3/8" (35)	1 3/8" (35)	-
Table H	26 1/2" (673)	24" (610)	20	1 1/8" (29)	-	1 1/4" (32)	-	21" (533)	-	1/16" (2)	2 1/8" (54)	1 7/8" (48)	1 7/8" (48)	-

Metric dimensions are given in millimetres. Imperial dimensions are followed by their approximate metric equivalent in brackets.
(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) Copper alloy flanges are always flat-faced.

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DN500 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (3)	Raised Face Diameter Steel (3)	Raised Face Height Cast Iron (3)	Raised Face Height Steel (3)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	645	600	20	M20	23	22	568	570	4	2	30 (1)	-	24 (2)	-
PN 10	670	620	20	M24	28	26	582	585	4	2	34 (1)	-	28 (2)	26.5
PN 16	715	650	20	M30	34	33	609	610	4	2	42 (1)	-	44 (2)	31.5
PN 25	730	660	20	M33	37	36	609	615	4	2	52 (1)	-	48 (2)	36.5
PN 40	755	670	20	M39	44	42	615	615	4	2	-	-	57 (2)	52
PN 64	800	705	20	M45	-	48	-	615	-	2	-	-	68 (2)	-
PN 100	870	760	20	M52	-	56	-	615	-	2	-	-	94 (2)	-
ANSI														
Class 125/150	27 1/2" (699)	25" (635)	20	1 1/8" (29)	1 1/4" (32)	1 1/4" (32)	-	23" (584)	-	1/16" (2)	1 11/16" (43)	-	1 11/16" (43)	-
Class 300	30 1/2" (775)	27" (686)	24	1 1/4" (32)	-	1 3/8" (35)	-	23" (584)	-	1/16" (2)	-	-	2 1/2" (64)	-
Class 600	32" (813)	28 1/2" (724)	24	1 5/8" (41)	-	1 3/4" (44)	-	23" (584)	-	1/4" (6)	-	-	3 1/2" (89)	-
Class 900	33 3/4" (857)	29 1/2" (749)	20	2" (51)	-	2 1/8" (54)	-	23" (584)	-	1/4" (6)	-	-	4 1/4" (108)	-
Class 1500	38 3/4" (984)	32 3/4" (832)	16	3" (76)	-	3 1/8" (79)	-	23" (584)	-	1/4" (6)	-	-	7" (178)	-
BS 10														
Table A	27 3/4" (705)	25 1/4" (641)	12	7/8" (22)	1" (25)	1" (25)	-	-	-	-	1 1/8" (29)	1 1/8" (29)	-	-
Table D	27 3/4" (705)	25 1/4" (641)	16	7/8" (22)	1" (25)	1" (25)	-	-	-	-	1 1/4" (32)	1 1/4" (32)	-	-
Table E	27 3/4" (705)	25 1/4" (641)	16	7/8" (22)	1" (25)	1" (25)	-	-	-	-	1 1/2" (38)	1 1/4" (32)	1 1/4" (32)	-
Table F	29" (737)	26 1/2" (673)	24	1 1/8" (29)	1 1/4" (32)	1 1/4" (32)	-	-	-	-	1 5/8" (41)	1 1/2" (38)	1 1/2" (38)	-
Table H	29" (737)	26 1/2" (673)	24	1 1/8" (29)	1 1/4" (32)	1 1/4" (32)	-	23 1/2" (597)	-	1/16" (2)	2 1/4" (57)	2" (51)	2" (51)	-

Metric dimensions are given in millimetres. Imperial dimensions are followed by their approximate metric equivalent in brackets.
(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) These flange thicknesses are changed substantially as a result of the flange calculation method used in BS EN 1092-1.
(3) Copper alloy flanges are always flat-faced.

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DN600 Flange Tables

Standard / Rating	Flange Diameter	Bolt Circle Diameter	Number of Bolts	Bolt Diameter	Hole Diameter Iron	Hole Diameter Steel	Raised Face Diameter Cast Iron (2)	Raised Face Diameter Steel (2)	Raised Face Height Cast Iron (2)	Raised Face Height Steel (2)	Flange Thickness - Grey Cast Iron	Flange Thickness - Copper Alloy	Flange Thickness - Cast & Forged Steel	Flange Thickness - Ductile Cast Iron
BS EN 1092														
PN 6	755	705	20	M24	28	26	667	670	5	2	30 (1)	-	30	-
PN 10	780	725	20	M27	31	30	682	685	5	2	36 (1)	-	34	30
PN 16	840	770	20	M33	37	36	720	725	5	2	48 (1)	-	54	36
PN 25	845	770	20	M36	41	39	720	720	5	2	-	-	58	42
PN 40	890	795	20	M45	50	48	735	735	5	2	-	-	72	58
PN 64	930	820	20	M52	-	56	-	735	-	2	-	-	76	-
ANSI														
Class 125/150	32" (813)	29 1/2" (749)	20	1 1/4" (32)	1 3/8" (35)	1 3/8" (35)	-	27 1/4" (692)	-	1/16" (2)	1 7/8" (48)	-	1 7/8" (48)	-
Class 300	36" (914)	32" (813)	24	1 1/2" (38)	-	1 5/8" (41)	-	27 1/4" (692)	-	1/16" (2)	-	-	2 3/4" (70)	-
Class 600	37" (940)	33" (838)	24	1 7/8" (48)	-	2" (51)	-	27 1/4" (692)	-	1/4" (6)	-	-	4" (102)	-
Class 900	41" (1041)	35 1/2" (902)	20	2 1/2" (64)	-	2 5/8" (67)	-	27 1/4" (692)	-	1/4" (6)	-	-	5 1/2" (140)	-
Class 1500	46" (1168)	39" (991)	16	3 1/2" (89)	-	3 5/8" (92)	-	27 1/4" (692)	-	1/4" (6)	-	-	8" (203)	-
BS 10														
Table A	32 1/2" (826)	29 3/4" (756)	12	1" (25)	1 1/8" (29)	1 1/8" (29)	-	-	-	-	1 3/16" (30)	1 3/16" (30)	-	-
Table D	32 1/2" (826)	29 3/4" (756)	16	1" (25)	1 1/8" (29)	1 1/8" (29)	-	-	-	-	1 3/8" (35)	1 3/8" (35)	1 3/8" (35)	-
Table E	32 1/2" (826)	29 3/4" (756)	16	1 1/8" (29)	1 1/4" (32)	1 1/4" (32)	-	-	-	-	1 5/8" (41)	1 1/2" (38)	1 1/2" (38)	-
Table F	33 1/2" (851)	30 3/4" (781)	24	1 1/4" (32)	1 1/4" (32)	1 3/8" (35)	-	-	-	-	1 3/4" (44)	1 5/8" (41)	1 5/8" (41)	-
Table H	33 1/2" (851)	30 3/4" (781)	24	1 1/4" (32)	1 3/8" (35)	1 3/8" (35)	-	27 1/2" (699)	-	1/16" (2)	2 1/2" (64)	2 1/4" (57)	2 1/4" (57)	-

Metric dimensions are given in millimetres. Imperial dimensions are followed by their approximate metric equivalent in brackets.
(1) These flange thicknesses are also valid for ductile iron flanges type 21-2.
(2) Copper alloy flanges are always flat-faced.

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