

Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	95	47	13	5	67	4	M12	-	14
		C	95	47	13	5	67	4	M12	-	14
		D	95	47	13	5	67	4	M12	-	14
		E	95	47	13	6	67	4	M12	-	14
		F	95	47	13	10	67	4	M12	-	14
		H	115	57	16	13	83	4	M16	-	18
		J	115	57	-	16	83	4	M16	-	18
		K	115	64	-	19	83	4	M16	-	18
		R	115	64	-	19	83	4	M16	-	18
		S	125	64	-	22	89	4	M20	-	22
	T	140	64	-	25	102	4	M20	-	22	
• AS 4087:1993 (Class 14,16,21,35)		14/16	95	47	13	5	67	4	M12	-	14
		21/35	95	47	13	10	67	4	M12	-	14
• ASME/ANSI B 16.1:1989 (Class 125,250)	} No data below 25mm	125	89	35	11	-	60.3	4	-	1/2	15.9
		250	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.2:1989 (Class 125,250)											
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	88.9	35.1	-	11.2	60.5	4	-	1/2	15.7
		300	95.3	35.1	-	14.2	66.5	4	-	1/2	15.7
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	95.3	35.1	-	14.2	66.5	4	-	1/2	15.7
		900	120.7	35.1	-	22.4	82.6	4	-	3/4	22.4
		1500	120.7	35.1	-	22.4	82.6	4	-	3/4	22.4
		2500	133.4	35.1	-	30.2	88.9	4	-	3/4	22.4
• ISO 7005-1:1992 (PN 20-420)		PN20	88.9	35	-	11.5	60.5	4	M14	-	16
		PN50	95	35	-	14.5	66.5	4	M14	-	16
		PN110	95	35	-	14.5	66.5	4	M14	-	16
		PN150	120	35	-	22.5	82.5	4	M20	-	22
		PN260	120	35	-	22.5	82.5	4	M20	-	22
		PN420	135	35	-	30.5	89	4	M20	-	22
• DIN 2501-Part 1 (PN 6-100)		PN6	80	40	12	12	55	4	M10	-	11
		PN10	95	45	14	14	65	4	M12	-	14
• ISO 7005-1:1992 (PN 6-40)		PN16	95	45	14	14	65	4	M12	-	14
		PN25	95	45	16	16	65	4	M12	-	14
• BS 4504-Section 3.2:1989 (PN6-40)		PN40	95	45	16	16	65	4	M12	-	14
		PN64	105	45	-	20	75	4	M12	-	14
		PN100	105	45	-	20	75	4	M12	-	14
• JIS B 2210:1984 (PN 5-63)		PN5	80	44	12	9	60	4	M10	-	12
		PN10	95	51	16	12	70	4	M12	-	15
		PN16	95	51	-	12	70	4	M12	-	15
		PN20	95	51	16	14	70	4	M12	-	15
		PN30	115	55	-	18	80	4	M16	-	19
		PN40	115	55	-	20	80	4	M16	-	19
		PN63	120	55	-	23	85	4	M16	-	19

Notes:

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data					
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		Hole Size	
• AS 2129:1994 (Table A to T)		A	100	53	13	5	73	4	M12	-	14	
		C	100	53	13	5	73	4	M12	-	14	
		D	100	53	13	5	73	4	M12	-	14	
		E	100	53	13	6	73	4	M12	-	14	
		F	100	53	13	10	73	4	M12	-	14	
		H	115	57	16	13	83	4	M16	-	18	
		J	115	57	-	16	83	4	M16	-	18	
		K	115	64	-	19	83	4	M16	-	18	
		R	115	64	-	19	83	4	M16	-	18	
		S	125	64	-	22	89	4	M20	-	22	
	T	140	64	-	25	102	4	M20	-	22		
• AS 4087:1993 (Class 14,16,21,35)		14/16	100	53	13	5	73	4	M12	-	14	
		21/35	100	53	13	10	73	4	M12	-	14	
• ASME/ANSI B 16.1:1989 (Class 125,250)	} No data below 25mm		125	98	43	11	-	69.8	4	-	1/2	15.9
			250	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	98.6	43	-	12.7	69.9	4	-	1/2	15.7	
		300	117.3	43	-	15.7	82.6	4	-	5/8	19.1	
	• BS 1560-Section 3.1:1989 (Class 150-2500)		600	117.3	43	-	15.7	82.6	4	-	5/8	19.1
			900	130	43	-	25.4	88.9	4	-	3/4	22.4
			1500	130	43	-	25.4	88.9	4	-	3/4	22.4
	2500	139.7	43	-	31.8	95.3	4	-	3/4	22.4		
• ISO 7005-1:1992 (PN 20-420)		PN20	100	43	-	13	70	4	M14	-	16	
		PN50	120	43	-	16	82.5	4	M16	-	18	
		PN110	120	43	-	16	82.5	4	M16	-	18	
		PN150	130	43	-	25.5	89	4	M20	-	22	
		PN260	130	43	-	25.5	89	4	M20	-	22	
		PN420	140	43	-	32	95	4	M20	-	22	
• DIN 2501-Part 1 (PN 6-100) • ISO 7005-1:1992 (PN 6-40) • BS 4504-Section 3.2:1989 (PN6-40)		PN6	90	50	14	14	65	4	M10	-	11	
		PN10	105	58	16	16	75	4	M12	-	14	
		PN16	105	58	16	16	75	4	M12	-	14	
		PN25	105	58	18	18	75	4	M12	-	14	
		PN40	105	58	18	18	75	4	M12	-	14	
		PN64	130	58	-	22	90	4	M16	-	18	
		PN100	130	58	-	22	90	4	M16	-	18	
		PN100	130	58	-	22	90	4	M16	-	18	
• JIS B 2210:1984 (PN 5-63)		PN5	85	49	14	10	65	4	M10	-	12	
		PN10	100	56	18	14	75	4	M12	-	15	
		PN16	100	56	-	14	75	4	M12	-	15	
		PN20	100	56	18	16	75	4	M12	-	15	
		PN30	120	60	-	18	85	4	M16	-	19	
		PN40	120	60	-	20	85	4	M16	-	19	
		PN63	135	60	-	25	95	4	M20	-	23	

Notes:

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size	
			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size			
					Iron	Steel			Metric	Inch		
<ul style="list-style-type: none"> AS 2129:1994 (Table A to T) 		A	115	63	13	5	83	4	M12	-	14	
		C	115	63	13	5	83	4	M12	-	14	
		D	115	65	13	5	83	4	M12	-	14	
		E	115	63	13	7	83	4	M12	-	14	
		F	120	63	13	10	87	4	M16	-	18	
		H	120	64	19	14	87	4	M16	-	18	
		J	120	64	-	19	87	4	M16	-	18	
		K	125	76	-	22	95	4	M16	-	18	
		R	125	76	-	22	95	4	M16	-	18	
		S	140	76	-	25	102	4	M20	-	22	
	T	145	76	-	29	108	4	M20	-	22		
<ul style="list-style-type: none"> AS 4087:1993 (Class 14,16,21,35) 		14/16	115	63	13	5	83	4	M12	-	14	
		21/35	120	63	13	10	87	4	M16	-	18	
<ul style="list-style-type: none"> ASME/ANSI B 16.1:1989 (Class 125,250) 		125	108	51	11.2	-	79.2	4	-	1/2	15.7	
		250	124	68	17.5	-	88.9	4	-	5/8	19.1	
<ul style="list-style-type: none"> BS 1560-Section 3.2:1989 (Class 125,250) 		125	108	51	11.2	-	79.2	4	-	1/2	15.7	
		250	124	68	17.5	-	88.9	4	-	5/8	19.1	
<ul style="list-style-type: none"> ASME/ANSI B 16.5:1988 (Class 150-2500) 		150	108	50.8	-	14.2	79.2	4	-	1/2	15.7	
		300	124	50.8	-	17.5	88.9	4	-	5/8	19.1	
	<ul style="list-style-type: none"> BS 1560-Section 3.1:1989 (Class 150-2500) 		600	124	50.8	-	17.5	88.9	4	-	5/8	19.1
			900	149.4	50.8	-	28.4	101.6	4	-	7/8	25.4
			1500	149.4	50.8	-	28.4	101.6	4	-	7/8	25.4
	2500	158.8	50.8	-	35.1	108	4	-	7/8	25.4		
<ul style="list-style-type: none"> ISO 7005-1:1992 (PN 20-420) 		PN20	110	51	-	14.5	79.5	4	M14	-	16	
		PN50	125	51	-	17.5	89	4	M16	-	18	
		PN110	125	51	-	17.5	89	4	M16	-	18	
		PN150	150	51	-	29	101.5	4	M24	-	26	
		PN260	150	51	-	29	101.5	4	M24	-	26	
		PN420	160	51	-	35	108	4	M24	-	26	
<ul style="list-style-type: none"> DIN 2501-Part 1 (PN 6-100) ISO 7005-1:1992 (PN 6-40) BS 4504-Section 3.2:1989 (PN6-40) 		PN6	100	60	14	14	75	4	M10	-	11	
		PN10	115	68	16	16	85	4	M12	-	14	
		PN16	115	68	16	16	85	4	M12	-	14	
		PN25	115	68	18	18	85	4	M12	-	14	
		PN40	115	68	18	18	85	4	M12	-	14	
		PN64	140	68	-	24	100	4	M16	-	18	
		PN100	140	68	-	24	100	4	M16	-	18	
		PN100	140	68	-	24	100	4	M16	-	18	
<ul style="list-style-type: none"> JIS B 2210:1984 (PN 5-63) 		PN5	95	59	14	10	75	4	M10	-	12	
		PN10	125	67	18	14	90	4	M16	-	19	
		PN16	125	67	-	14	90	4	M16	-	19	
		PN20	125	67	20	16	90	4	M16	-	19	
		PN30	130	70	-	20	95	4	M16	-	19	
		PN40	130	70	-	22	95	4	M16	-	19	
		PN63	140	70	-	27	100	4	M20	-	23	

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		Hole Size
• AS 2129:1994 (Table A to T)		A	120	67	16	6	87	4	M12	-	14
		C	120	67	16	6	87	4	M12	-	14
		D	120	67	16	6	87	4	M12	-	14
		E	120	67	16	8	87	4	M12	-	14
		F	135	74	16	13	98	4	M16	-	18
		H	135	76	22	17	98	4	M16	-	18
		J	135	76	-	19	98	4	M16	-	18
		K	135	76	-	22	98	4	M16	-	18
		R	135	76	-	22	98	4	M16	-	18
		S	145	83	-	29	108	4	M20	-	22
	T	160	83	-	32	121	4	M24	-	26	
• AS 4087:1993 (Class 14,16,21,35)		14/16	120	67	16	6	87	4	M12	-	14
		21/35	135	74	16	13	98	4	M16	-	18
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	117	64	13	-	88.9	4	-	1/2	15.9
• BS 1560-Section 3.2:1989 (Class 125,250)		250	133.4	77	19.1	-	98.6	4	-	5/8	19.1
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	117.3	63.5	-	15.7	88.9	4	-	1/2	15.7
		300	133.4	63.5	-	19.1	98.6	4	-	5/8	19.1
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	133.4	63.5	-	20.6	98.6	4	-	5/8	19.1
		900	158.8	63.5	-	28.4	111.3	4	-	7/8	25.4
		1500	158.8	63.5	-	28.4	111.3	4	-	7/8	25.4
	2500	184.2	63.5	-	38.1	130	4	-	1	28.4	
• ISO 7005-1:1992 (PN 20-420)		PN20	120	63.5	-	16	89	4	M14	-	16
		PN50	135	63.5	-	19.5	98.5	4	M16	-	18
		PN110	135	63.5	-	21	98.5	4	M16	-	18
		PN150	160	63.5	-	29	111	4	M24	-	26
		PN260	160	63.5	-	29	111	4	M24	-	26
		PN420	185	63.5	-	38.5	130	4	M27	-	29.5
• DIN 2501-Part 1 (PN 6-100)		PN6	120	70	16	16	90	4	M12	-	14
• ISO 7005-1:1992 (PN 6-40)		PN10	140	78	18	16	100	4	M16	-	18
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	140	78	18	16	100	4	M16	-	18
		PN25	140	78	20	18	100	4	M16	-	18
		PN40	140	78	20	18	100	4	M16	-	18
		PN64	155	78	-	24	110	4	M20	-	22
		PN100	155	78	-	24	110	4	M20	-	22
		PN160	185	78	-	24	110	4	M20	-	22
• JIS B 2210:1984 (PN 5-63)		PN5	115	70	16	12	90	4	M12	-	15
		PN10	135	76	20	16	100	4	M16	-	19
		PN16	135	76	-	16	100	4	M16	-	19
		PN20	135	76	20	18	100	4	M16	-	19
		PN30	140	80	-	22	105	4	M16	-	19
		PN40	140	80	-	24	105	4	M16	-	19
		PN63	150	80	-	30	110	4	M20	-	23

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			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size		
					Iron	Steel			Metric	Inch	
• AS 2129:1994 (Table A to T)		A	135	78	16	6	98	4	M12	-	14
		C	135	78	16	6	98	4	M12	-	14
		D	135	78	16	6	98	4	M12	-	14
		E	135	78	16	9	98	4	M12	-	14
		F	140	81	16	13	105	4	M16	-	18
		H	140	83	22	17	105	4	M16	-	18
		J	140	83	-	22	105	4	M16	-	18
		K	150	89	-	25	114	4	M20	-	22
		R	150	89	-	25	114	4	M20	-	22
		S	160	89	-	29	121	4	M20	-	22
	T	170	89	-	35	133	8	M20	-	22	
• AS 4087:1993 (Class 14,16,21,35)		14/16	135	78	16	6	98	4	M12	-	14
		21/35	140	81	16	13	105	4	M16	-	18
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	127	7.3	14.2	-	98.4	4	-	1/2	15.9
• BS 1560-Section 3.2:1989 (Class 125,250)		250	155.4	90.4	20.6	-	114.3	4	-	3/4	22.4
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	127	73.2	-	17.5	98.6	4	-	1/2	15.7
		300	155.4	73.2	-	20.6	114.3	4	-	3/4	22.4
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	155.4	73.2	-	22.4	114.3	4	-	3/4	22.4
		900	177.8	73.2	-	31.8	124	4	-	1	28.4
		1500	177.8	73.2	-	31.8	124	4	-	1	28.4
		2500	203.2	73.2	-	44.5	146.1	4	-	11/8	31.8
• ISO 7005-1:1992 (PN 20-420)		PN20	130	73.2	-	17.5	98.5	4	M14	-	16
		PN50	155	73	-	21	114.5	4	M20	-	22
		PN110	155	73	-	22.5	114.5	4	M20	-	22
		PN150	180	73	-	32	124	4	M27	-	29.5
		PN260	180	73	-	32	124	4	M27	-	29.5
		PN420	205	73	-	44.5	146	4	M30	-	32.5
• DIN 2501-Part 1 (PN 6-100)		PN6	130	80	16	16	100	4	M12	-	14
• ISO 7005-1:1992 (PN 6-40)		PN10	150	88	18	16	110	4	M16	-	18
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	150	88	18	16	110	4	M16	-	18
		PN25	150	88	20	20	110	4	M16	-	18
		PN40	150	88	20	20	110	4	M16	-	18
		PN64	170	88	-	26	125	4	M20	-	22
		PN100	170	88	-	26	125	4	M20	-	22
		PN160	170	88	-	26	125	4	M20	-	22
• JIS B 2210:1984 (PN 5-63)		PN5	120	75	16	12	95	4	M12	-	15
		PN10	140	81	20	16	105	4	M16	-	19
		PN16	140	81	-	16	105	4	M16	-	19
		PN20	140	81	22	18	105	4	M16	-	19
		PN30	160	90	-	22	120	4	M20	-	23
		PN40	160	90	-	24	120	4	M20	-	23
		PN63	175	90	-	32	130	4	M22	-	25

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			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size		
					Iron	Steel			Metric	Inch	
• AS 2129:1994 (Table A to T)		A	150	90	16	8	114	4	M16	-	18
		C	150	90	19	8	114	4	M16	-	18
		D	150	90	17	8	114	4	M16	-	18
		E	150	90	19	10	114	4	M16	-	18
		F	165	103	19	16	127	4	M16	-	18
		H	165	102	25	19	127	4	M16	-	18
		J	165	102	-	25	127	4	M20	-	22
		K	165	102	-	25	127	8	M16	-	18
		R	165	102	-	25	127	8	M16	-	18
		S	170	89	-	32	133	8	M20	-	22
	T	185	102	-	35	146	8	M20	-	22	
• AS 4087:1993 (Class 14,16,21,35)		14/16	150	90	19	8	114	4	M16	-	18
		21/35	165	103	19	16	127	4	M16	-	18
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	152	92	16	-	120.6	4	-	5/8	19
		250	165.1	106	22.4	-	127	8	-	5/8	19.1
• BS 1560-Section 3.2:1989 (Class 125,250)		150	152.4	91.9	-	19.1	120.7	4	-	5/8	19.1
		300	165.1	91.9	-	22.4	127	8	-	5/8	19.1
• ASME/ANSI B 16.5:1988 (Class 150-2500)		600	165.1	91.9	-	25.4	127	8	-	5/8	19.1
		900	215.9	91.9	-	38.1	165.1	8	-	7/8	25.4
• BS 1560-Section 3.1:1989 (Class 150-2500)		1500	215.9	91.9	-	38.1	165.1	8	-	7/8	25.4
		2500	235	91.9	-	50.8	171.5	8	-	1	28.4
• ISO 7005-1:1992 (PN 20-420)		PN20	150	92	-	19.5	120.5	4	M16	-	18
		PN50	165	92	-	22.5	127	8	M16	-	18
		PN110	165	92	-	25.5	127	8	M16	-	18
		PN150	215	92	-	38.5	165	8	M24	-	26
		PN260	215	92	-	38.5	165	8	M24	-	26
		PN420	235	92	-	51	171.5	8	M27	-	29.5
• DIN 2501-Part 1 (PN 6-100)		PN6	140	90	16	16	110	4	M12	-	14
• ISO 7005-1:1992 (PN 6-40)		PN10	165	102	20	18	125	4	M16	-	18
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	165	102	20	18	125	4	M16	-	18
		PN25	165	102	22	20	125	4	M16	-	18
		PN40	165	102	22	20	125	4	M16	-	18
		PN64	180	102	-	26	135	4	M20	-	22
		PN100	195	102	-	28	145	4	M24	-	26
		PN160	215	102	-	32	165	4	M24	-	26
• JIS B 2210:1984 (PN 5-63)		PN5	130	85	16	14	105	4	M12	-	15
		PN10	155	96	20	16	120	4	M16	-	19
		PN16	155	96	20	16	120	8	M16	-	19
		PN20	155	96	22	18	120	8	M16	-	19
		PN30	165	105	-	22	130	8	M16	-	19
		PN40	165	105	-	26	130	8	M16	-	19
		PN63	185	105	-	34	145	8	M20	-	23

Notes:

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This flange information does not necessarily apply to valves and other pipeline equipment which are often designed and manufactured to accommodate multiple flange standards. Consult relevant Manufacturer's data for information on its products.

Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size		
					Iron	Steel			Metric	Inch	
• AS 2129:1994 (Table A to T)		A	165	103	17	8	127	4	M16	-	18
		C	165	103	19	8	127	4	M16	-	18
		D	165	103	17	8	127	4	M16	-	18
		E	165	103	19	10	127	4	M16	-	18
		F	185	122	19	16	146	8	M16	-	18
		H	185	114	25	19	146	8	M16	-	18
		J	185	114	-	25	146	8	M20	-	22
		K	185	114	-	29	146	8	M20	-	22
		R	185	114	-	29	146	8	M20	-	22
		S	185	102	-	32	146	8	M20	-	22
	T	205	114	-	41	165	8	M24	-	26	
• AS 4087:1993 (Class 14,16,21,35)		14/16	165	103	19	8	127	4	M16	-	18
		21/35	185	122	19	16	146	8	M16	-	18
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	178	105	17.5	-	139.7	4	-	5/8	19
• BS 1560-Section 3.2:1989 (Class 125,250)		250	190.5	125.5	25.4	-	149.4	8	-	3/4	22.4
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	177.8	104.6	-	22.4	139.7	4	-	5/8	19.1
		300	190.5	104.6	-	25.4	149.4	8	-	3/4	22.4
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	190.5	104.6	-	28.4	149.4	8	-	3/4	22.4
		900	244.3	104.6	-	41.1	190.5	8	-	1	28.4
		1500	244.3	104.6	-	41.1	190.5	8	-	1	28.4
		2500	266.7	104.6	-	57.2	196.9	8	-	11/8	31.8
• ISO 7005-1:1992 (PN 20-420)		PN20	180	105	-	22.5	139.5	4	M16	-	18
		PN50	190	105	-	25.5	149	8	M20	-	22
		PN110	190	105	-	29	149	8	M20	-	22
		PN150	245	105	-	41.5	190.5	8	M27	-	29.5
		PN260	245	105	-	41.5	190.5	8	M27	-	29.5
		PN420	265	105	-	57.5	197	8	M30	-	32.5
• DIN 2501-Part 1 (PN 6-100)		PN6	160	110	16	16	130	4	M12	-	14
• ISO 7005-1:1992 (PN 6-40)		PN10	185	122	20	18	145	4	M16	-	18
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	185	122	20	18	145	4	M16	-	18
		PN25	185	122	24	22	145	8	M16	-	18
		PN40	185	122	24	22	145	8	M16	-	18
		PN64	205	122	-	26	160	8	M20	-	22
		PN100	220	122	-	30	170	8	M24	-	26
		PN150	245	105	-	41.5	190.5	8	M27	-	29.5
• JIS B 2210:1984 (PN 5-63)		PN5	155	110	18	14	130	4	M12	-	15
		PN10	175	116	22	18	140	4	M16	-	19
		PN16	175	116	22	18	140	8	M16	-	19
		PN20	175	116	24	20	140	8	M16	-	19
		PN30	200	130	-	26	160	8	M20	-	23
		PN40	200	130	-	30	160	8	M20	-	23
		PN63	220	130	-	38	175	8	M22	-	25

Notes:

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This flange information does not necessarily apply to valves and other pipeline equipment which are often designed and manufactured to accommodate multiple flange standards. Consult relevant Manufacturer's data for information on its products.

Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size		
					Iron	Steel			Metric	Inch	
• AS 2129:1994 (Table A to T)		A	185	122	17	10	146	4	M16	-	18
		C	185	122	19	10	146	4	M16	-	18
		D	185	122	19	10	146	4	M16	-	18
		E	185	122	19	11	146	4	M16	-	18
		F	205	141	19	16	165	8	M16	-	18
		H	205	127	29	22	165	8	M16	-	18
		J	205	127	-	32	165	8	M20	-	22
		K	205	127	-	32	165	8	M20	-	22
		R	205	127	-	32	165	8	M20	-	22
		S	205	114	-	35	165	8	M24	-	26
	T	235	127	-	48	191	8	M27	-	30	
• AS 4087:1993 (Class 14,16,21,35)		14/16	185	122	19	10	146	4	M16	-	18
		21/35	205	141	19	16	165	8	M16	-	18
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	190	127	19	-	152.4	4	-	5/8	19
• BS 1560-Section 3.2:1989 (Class 125,250)		250	209.6	145	28.4	-	168.1	8	-	3/4	22.4
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	190.5	127	-	23.9	152.4	4	-	5/8	19.1
		300	209.6	127	-	28.4	168.1	8	-	3/4	22.4
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	209.6	127	-	31.8	168.1	8	-	3/4	22.4
		900	241.3	127	-	38.1	190.5	8	-	7/8	25.4
		1500	266.7	127	-	47.8	203.2	8	-	11/8	31.8
		2500	304.8	127	-	66.5	228.6	8	-	11/4	35.1
• ISO 7005-1:1992 (PN 20-420)		PN20	190	127	-	24	152.5	4	M16	-	18
		PN50	210	127	-	29	168.5	8	M20	-	22
		PN110	210	127	-	32	168.5	8	M20	-	22
		PN150	240	127	-	38.5	190.5	8	M24	-	26
		PN260	265	127	-	48	203	8	M30	-	32.5
		PN420	305	127	-	67	228.5	8	M33	-	35.5
• DIN 2501-Part 1 (PN 6-100)		PN6	190	128	18	18	150	4	M16	-	18
• ISO 7005-1:1992 (PN 6-40)		PN10	200	138	22	20	160	8	M16	-	18
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	200	138	22	20	160	8	M16	-	18
		PN25	200	138	26	24	160	8	M16	-	18
		PN40	200	138	26	24	160	8	M16	-	18
		PN64	215	138	-	30	170	8	M20	-	22
		PN100	230	138	-	34	180	8	M24	-	26
		PN150	240	127	-	38.5	190.5	8	M24	-	26
• JIS B 2210:1984 (PN 5-63)		PN5	180	121	18	14	145	4	M16	-	19
		PN10	185	126	22	18	150	8	M16	-	19
		PN16	200	132	24	20	160	8	M20	-	23
		PN20	200	132	26	22	160	8	M20	-	23
		PN30	210	140	-	28	170	8	M20	-	23
		PN40	210	140	-	32	170	8	M20	-	23
		PN63	230	140	-	40	185	8	M22	-	25

Notes:

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				
			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size		Hole Size
					Iron	Steel			Metric	Inch	
• AS 2129:1994 (Table A to T)		A	205	141	19	10	165	4	M16	-	18
		C	205	141	19	10	165	4	M16	-	18
		D	205	141	19	10	165	4	M16	-	18
		E	205	141	19	12	165	8	M16	-	18
		F	215	154	22	19	178	8	M16	-	18
		H	215	140	29	22	178	8	M16	-	18
		J	215	140	-	32	178	8	M20	-	22
		K	230	140	-	32	184	8	M24	-	26
		R	230	140	-	32	184	8	M24	-	26
		S	230	127	-	38	191	8	M24	-	26
	T	265	146	-	54	216	8	M30	-	33	
• AS 4087:1993 (Class 14,16,21,35)		14/16	205	141	19	10	165	4	M16	-	18
		21/35	215	154	22	19	178	8	M16	-	18
• ASME/ANSI B 16.1:1989 (Class 125,250)											
• BS 1560-Section 3.2:1989 (Class 125,250)	} No data	125	215.9	-	20.6	-	177.8	8	-	5/8	19.1
		250	228.6	-	30.2	-	184.2	8	-	3/4	22.4
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	215.9	139.7	-	23.9	177.8	8	-	5/8	19.1
		300	228.6	139.7	-	30.2	184.2	8	-	3/4	22.4
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	228.6	139.7	-	35.1	184.2	8	-	7/8	25.4
		900	-	-	-	-	-	-	-	-	-
		1500	-	-	-	-	-	-	-	-	-
		2500	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 20-420)		PN20	-	-	-	-	-	-	-	-	-
		PN50	-	-	-	-	-	-	-	-	-
		PN110	-	-	-	-	-	-	-	-	-
		PN150	-	-	-	-	-	-	-	-	-
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 6-40)		PN10	-	-	-	-	-	-	-	-	
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	-	-	-	-	-	-	-	-	
		PN25	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	
		PN64	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	
• JIS B 2210:1984 (PN 5-63)		PN5	190	131	18	14	155	4	M16	-	19
		PN10	195	136	22	18	160	8	M16	-	19
		PN16	210	145	24	20	170	8	M20	-	23
		PN20	210	145	28	24	170	8	M20	-	23
		PN30	230	150	-	30	185	8	M22	-	25
		PN40	230	150	-	34	185	8	M22	-	25
		PN63	255	150	-	42	205	8	M24	-	27

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	215	154	19	10	178	4	M16	-	18
		C	215	154	22	10	178	4	M16	-	18
		D	215	154	19	10	178	4	M16	-	18
		E	215	154	22	13	178	8	M16	-	18
		F	230	167	22	19	191	8	M16	-	18
		H	230	152	32	25	191	8	M16	-	18
		J	230	152	-	35	191	8	M20	-	22
		K	240	152	-	35	197	8	M24	-	26
		R	240	152	-	35	197	8	M24	-	26
		S	250	159	-	41	203	8	M27	-	30
	T	285	159	-	57	235	8	M30	-	33	
• AS 4087:1993 (Class 14,16,21,35)		14/16	215	154	22	10	178	4	M16	-	18
		21/35	230	167	22	19	191	8	M16	-	18
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	229	157	23.9	-	190.5	8	-	5/8	19.1
		250	254	176	31.8	-	200.2	8	-	3/4	22.4
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	228.6	157.2	-	23.9	190.5	8	-	5/8	19.1
		300	254	157.2	-	31.75	200.2	8	-	3/4	22.4
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	273.1	157.2	-	38.1	215.9	8	-	7/8	25.4
		900	292.1	157.2	-	44.5	235	8	-	11/8	31.8
		1500	311.2	157.2	-	53.8	241.3	8	-	11/4	35.1
		2500	355.6	157.2	-	76.2	273.1	8	-	11/2	41.1
		PN20	230	157.5	-	24	190.5	8	M16	-	18
• ISO 7005-1:1992 (PN 20-420)		PN50	255	157.5	-	32	200	8	M20	-	22
		PN110	275	157.5	-	38.5	216	8	M24	-	26
		PN150	290	157.5	-	44.5	235	8	M30	-	32.5
		PN260	310	157.5	-	54	241.5	8	M33	-	35.5
		PN420	355	157.5	-	76.5	273	8	M39	-	42
		PN6	210	148	18	18	170	4	M16	-	18
• DIN 2501-Part 1 (PN 6-100)		PN10	220	158	24	20	180	8	M16	-	18
• ISO 7005-1:1992 (PN 6-40)		PN16	220	158	24	20	180	8	M16	-	18
• BS 4504-Section 3.2:1989 (PN6-40)		PN25	235	162	28	26	190	8	M20	-	22
		PN40	235	162	28	26	190	8	M20	-	22
		PN64	250	162	-	32	200	8	M24	-	26
		PN100	265	162	-	36	210	8	M27	-	30
		PN5	200	141	20	16	165	8	M16	-	19
		PN10	210	151	24	18	175	8	M16	-	19
• JIS B 2210:1984 (PN 5-63)		PN16	225	160	26	22	185	8	M20	-	23
		PN20	225	160	28	24	185	8	M20	-	23
		PN30	240	160	-	32	195	8	M22	-	25
		PN40	250	165	-	36	205	8	M22	-	25
		PN63	270	165	-	44	220	8	M24	-	27

Notes:

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	255	186	19	13	210	4	M16	-	18
		C	255	186	22	13	210	8	M16	-	18
		D	255	186	21	13	210	8	M16	-	18
		E	255	186	22	14	210	8	M16	-	18
		F	280	207	25	22	235	8	M20	-	22
		H	280	178	35	29	235	8	M20	-	22
		J	280	178	-	38	235	8	M24	-	26
		K	280	178	-	41	235	12	M24	-	26
		R	280	178	-	41	235	12	M24	-	26
		S	285	191	-	44	235	12	M24	-	26
	T	325	210	-	67	273	12	M30	-	33	
• AS 4087:1993 (Class 14,16,21,35)		14/16	255	186	22	13	210	8	M16	-	18
		21/35	280	207	25	22	235	8	M20	-	22
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	254	186	23.9	-	215.9	8	-	3/4	22.4
		250	279.4	211	35	-	235	8	-	3/4	22.4
• BS 1560-Section 3.2:1989 (Class 125,250)		150	254	185.7	-	23.9	215.9	8	-	3/4	22.4
		300	279.4	185.7	-	35.1	235	8	-	3/4	22.4
• ASME/ANSI B 16.5:1988 (Class 150-2500)		600	330.2	185.7	-	44.5	266.7	8	-	1	28.4
		900	349.3	185.7	-	50.8	279.4	8	-	1 1/4	35.1
		1500	374.7	185.7	-	73.2	292.1	8	-	1 1/2	41.1
		2500	419.1	185.7	-	91.9	323.9	8	-	1 3/4	47.8
		1500	374.7	185.7	-	73.2	292.1	8	-	1 1/2	41.1
• BS 1560-Section 3.1:1989 (Class 150-2500)		2500	419.1	185.7	-	91.9	323.9	8	-	1 3/4	47.8
		PN20	255	186	-	24	216	8	M20	-	22
		PN50	280	186	-	35	235	8	M20	-	22
		PN110	330	186	-	44.5	267	8	M27	-	29.5
		PN150	350	186	-	51	279.5	8	M33	-	35.5
		PN260	375	186	-	73.5	292	8	M33	-	42
	PN420	420	186	-	92.5	324	8	M45	-	48	
• DIN 2501-Part 1 (PN 6-100)		PN6	240	178	20	20	200	8	M16	-	18
• ISO 7005-1:1992 (PN 6-40)		PN10	250	188	26	22	210	8	M16	-	18
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	250	188	26	22	210	8	M16	-	18
		PN25	270	188	30	28	220	8	M24	-	26
		PN40	270	188	30	28	220	8	M24	-	26
		PN64	295	188	-	34	240	8	M27	-	30
		PN100	315	188	-	42	250	8	M30	-	33
		PN100	315	188	-	42	250	8	M30	-	33
• JIS B 2210:1984 (PN 5-63)		PN5	235	176	20	16	200	8	M16	-	19
		PN10	250	182	24	20	210	8	M20	-	23
		PN16	270	195	26	22	225	8	M22	-	25
		PN20	270	195	30	26	225	8	M22	-	25
		PN30	275	195	-	36	230	8	M22	-	25
		PN40	300	200	-	40	250	8	M24	-	27
		PN63	325	200	-	50	265	8	M30	-	33

Notes:

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	280	211	21	13	235	4	M16	-	18
		C	280	211	22	13	235	8	M16	-	18
		D	280	211	21	13	235	8	M16	-	18
		E	280	207	22	17	235	8	M20	-	22
		F	305	232	25	22	260	12	M20	-	22
		H	305	210	35	29	260	12	M20	-	22
		J	305	210	-	38	260	12	M24	-	26
		K	305	210	-	41	260	12	M24	-	26
		R	305	210	-	44	260	12	M24	-	26
		S	325	210	-	51	273	12	M27	-	30
	T	375	229	-	73	318	12	M33	-	36	
• AS 4087:1993 (Class 14,16,21,35)		14/16	280	211	22	13	235	8	M16	-	18
		21/35	305	232	25	22	260	12	M20	-	22
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	279.4	216	25.4	-	241.3	8	-	3/4	22.4
		250	317.5	246	36.6	-	269.7	12	-	3/4	22.4
• BS 1560-Section 3.2:1989 (Class 125,250)		150	279.4	215.9	-	25.4	241.3	8	-	3/4	22.4
		300	317.5	215.9	-	36.6	269.7	12	-	3/4	22.4
• ASME/ANSI B 16.5:1988 (Class 150-2500)		600	355.6	215.9	-	47.8	292.1	12	-	1	28.4
		900	381	215.9	-	55.6	317.5	12	-	11/8	31.8
• BS 1560-Section 3.1:1989 (Class 150-2500)		1500	393.7	215.9	-	82.6	317.5	12	-	13/8	38.1
		2500	482.6	215.9	-	108	368.3	8	-	2	53.8
• ISO 7005-1:1992 (PN 20-420)		PN20	280	216	-	25.5	241.5	8	M20	-	22
		PN50	320	216	-	37	270	12	M20	-	22
		PN110	355	216	-	48	292	12	M27	-	29.5
		PN150	380	216	-	56	317.5	12	M30	-	32.5
		PN260	395	216	-	83	317.5	12	M36	-	39
		PN420	485	216	-	108	368.5	8	M52	-	55
• DIN 2501-Part 1 (PN 6-100)		PN6	265	202	20	20	225	8	M16	-	18
• ISO 7005-1:1992 (PN 6-40)		PN10	285	212	26	22	240	8	M20	-	22
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	285	212	26	22	240	8	M20	-	22
		PN25	300	218	34	30	250	8	M24	-	26
		PN40	300	218	34	30	250	8	M24	-	26
		PN64	345	218	-	36	280	8	M30	-	33
		PN100	355	218	-	48	290	12	M30	-	33
		PN160	405	218	-	60	315	12	M36	-	39
• JIS B 2210:1984 (PN 5-63)		PN5	265	206	22	18	230	8	M16	-	19
		PN10	280	212	26	22	240	8	M20	-	23
		PN16	305	230	28	24	260	12	M22	-	25
		PN20	305	230	32	28	260	12	M22	-	25
		PN30	325	235	-	38	275	12	M24	-	27
		PN40	355	240	-	44	295	12	M30	-	33
		PN63	365	240	-	54	305	12	M30	-	33

Notes:

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		Hole Size
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-	
		C	-	-	-	-	-	-	-	-	
		D	-	-	-	-	-	-	-	-	
		E	-	-	-	-	-	-	-	-	
		F	-	-	-	-	-	-	-	-	
		H	-	-	-	-	-	-	-	-	
		J	-	-	-	-	-	-	-	-	
		K	-	-	-	-	-	-	-	-	
		R	-	-	-	-	-	-	-	-	
		S	-	-	-	-	-	-	-	-	
	T	-	-	-	-	-	-	-	-		
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	
		21/35	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-	
		250	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-	
		300	-	-	-	-	-	-	-	-	
		600	-	-	-	-	-	-	-	-	
		900	-	-	-	-	-	-	-	-	
		1500	-	-	-	-	-	-	-	-	
• BS 1560-Section 3.2:1989 (Class 150,250)		2500	-	-	-	-	-	-	-	-	
		PN20	-	-	-	-	-	-	-	-	
		PN50	-	-	-	-	-	-	-	-	
		PN110	-	-	-	-	-	-	-	-	
		PN150	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 20-420)		PN260	-	-	-	-	-	-	-	-	
		PN420	-	-	-	-	-	-	-	-	
		PN6	-	-	-	-	-	-	-	-	
		PN10	-	-	-	-	-	-	-	-	
		PN16	-	-	-	-	-	-	-	-	
• DIN 2501-Part 1 (PN 6-100)		PN25	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	
		PN64	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	
		PN16	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 6-40)		PN25	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	
		PN64	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	
		PN5	300	232	22	18	260	8	M20	-	23
		PN10	305	237	26	22	265	12	M20	-	23
		PN16	-	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN20	-	-	-	-	-	-	-	-	
		PN30	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	
		PN63	-	-	-	-	-	-	-	-	

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	335	268	22	13	292	8	M16	-	18
		C	335	268	25	13	292	8	M16	-	18
		D	335	268	22	13	292	8	M16	-	18
		E	335	264	25	19	292	8	M20	-	22
		F	370	296	29	25	324	12	M20	-	22
		H	370	260	38	32	324	12	M20	-	22
		J	370	260	-	41	324	12	M24	-	26
		K	370	260	-	48	318	12	M27	-	30
		R	370	260	-	51	324	12	M27	-	30
		S	415	273	-	64	356	12	M33	-	36
	T	475	298	-	89	406	12	M39	-	42	
• AS 4087:1993 (Class 14,16,21,35)		14/16	335	268	25	13	292	8	M16	-	18
		21/35	370	296	29	25	324	12	M20	-	22
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	342.9	270	28.4	-	298.5	8	-	3/4	22.4
		250	381	303	41.1	-	330.2	12	-	7/8	25.4
• BS 1560-Section 3.2:1989 (Class 125,250)		150	342.9	269.7	-	28.4	298.5	8	-	3/4	22.4
		300	381	269.7	-	41.1	330.2	12	-	7/8	25.4
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	419.1	269.7	-	55.6	349.3	12	-	11/8	31.8
		900	469.9	269.7	-	63.5	393.7	12	-	13/8	38.1
		1500	482.6	269.7	-	91.9	393.7	12	-	15/8	44.5
		2500	552.5	269.7	-	127	438.2	12	-	2	53.8
• ISO 7005-1:1992 (PN 20-420)		PN20	345	270	-	29	298.5	8	M20	-	22
		PN50	380	270	-	41.5	330	12	M24	-	26
		PN110	420	270	-	55.5	349	12	M30	-	32.5
		PN150	470	270	-	63.5	393.5	12	M36	-	39
		PN260	485	270	-	92	393.5	12	M42	-	45
		PN420	550	270	-	127	438	12	M52	-	55
• DIN 2501-Part 1 (PN 6-100)		PN6	320	258	22	22	280	8	M16	-	18
• ISO 7005-1:1992 (PN 6-40)		PN10	340	268	26	24	295	8	M20	-	22
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	340	268	30	24	295	12	M20	-	22
		PN25	360	278	34	28	310	12	M24	-	26
		PN40	375	285	40	34	320	12	M27	-	30
		PN64	415	285	-	46	345	12	M33	-	36
		PN100	430	285	-	60	360	12	M33	-	36
		PN160	475	285	-	76	390	12	M36	-	42
• JIS B 2210:1984 (PN 5-63)		PN5	320	252	24	20	280	8	M20	-	23
		PN10	330	262	26	22	290	12	M20	-	23
		PN16	350	275	30	26	305	12	M22	-	25
		PN20	350	275	34	30	305	12	M22	-	25
		PN30	370	280	-	42	320	12	M24	-	27
		PN40	405	290	-	50	345	12	M30	-	33
		PN63	425	290	-	60	360	12	M30	-	33

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:2000		A	-	-	-	-	-	-	-	-	-
		C	-	-	-	-	-	-	-	-	-
		D	-	-	-	-	-	-	-	-	-
		E	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-
		H	-	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-	-
• AS 4087:2004		14	370	-	25	-	324	8	M16	-	18
		16	370	300	24	19	324	8	M16	-	18
		21	405	324	29	30	356	12	M24	-	26
		35	405	324	41	38	356	12	M24	-	26
• ANSI B 16.1:1998 (Class 125, 250)		125	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.2:1989 (Class 125, 250)		250	-	-	-	-	-	-	-	-	-
• ANSI B 16.5:1996 (Class 150-2500)		150	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.1 1989 (Class 150-2500)		300	-	-	-	-	-	-	-	-	-
		600	-	-	-	-	-	-	-	-	-
		900	-	-	-	-	-	-	-	-	-
		1500	-	-	-	-	-	-	-	-	-
		2500	-	-	-	-	-	-	-	-	-
• ISO 7005-1 1992 (PN 20-420)		PN20	-	-	-	-	-	-	-	-	-
		PN50	-	-	-	-	-	-	-	-	-
		PN110	-	-	-	-	-	-	-	-	-
		PN150	-	-	-	-	-	-	-	-	-
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• ISO 7005-1 1992 (PN 6-40)		PN6	-	-	-	-	-	-	-	-	-
• DIN 2501 1972 (PN6-100)		PN10	-	-	-	-	-	-	-	-	-
• EN 1092-2 1997 (PN 6-40)		PN16	-	-	-	-	-	-	-	-	-
		PN25	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
• JIS B 2238 1996		PN5	345	277	24	20	305	12	M20	-	23
• JIS B 2239 2004		PN10	350	282	28	22	310	12	M20	-	23
		PN16	-	-	-	-	-	-	-	-	-
		PN20	-	-	-	-	-	-	-	-	-

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	405	328	24	16	356	8	M20	-	22
		C	405	328	25	16	356	8	M20	-	22
		D	405	328	25	16	356	8	M20	-	22
		E	405	328	25	22	356	12	M20	-	22
		F	430	349	29	29	381	12	M24	-	26
		H	430	311	41	35	381	12	M24	-	26
		J	430	311	-	48	381	12	M27	-	30
		K	430	311	-	51	381	16	M27	-	30
		R	430	311	-	60	387	16	M27	-	30
		S	485	330	-	79	425	16	M33	-	36
	T	560	356	-	108	489	16	M39	-	42	
• AS 4087:1993 (Class 14,16,21,35)		14/16	405	328	25	16	356	8	M20	-	22
		21/35	430	349	29	29	381	12	M24	-	26
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	406.4	324	30.2	-	362	12	-	7/8	25.4
		250	444.5	357	47.8	-	387.4	16	-	1	28.4
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	406.4	323.9	-	30.2	362	12	-	7/8	25.4
		300	444.5	323.9	-	47.8	387.4	16	-	1	28.4
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	508	323.9	-	63.5	431.8	16	-	11/4	35.1
		900	546.1	323.9	-	69.9	469.9	16	-	13/8	38.1
		1500	584.2	323.9	-	108	482.6	12	-	17/8	50.8
		2500	673.1	323.9	-	165.1	539.8	12	-	21/2	66.5
• ISO 7005-1:1992 (PN 20-420)		PN20	405	324	-	30.5	362	12	M24	-	26
		PN50	445	324	-	48	387.5	16	M27	-	29.5
		PN110	510	324	-	63.5	432	16	M33	-	35.5
		PN150	545	324	-	70	470	16	M36	-	39
		PN260	585	324	-	108	482.5	12	M48	-	51
		PN420	675	324	-	165.5	539.5	12	M64	-	68
• DIN 2501-Part 1 (PN 6-100)		PN6	375	312	24	24	335	12	M16	-	18
• ISO 7005-1:1992 (PN 6-40)		PN10	395	320	28	26	350	12	M20	-	25
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	405	320	32	26	355	12	M24	-	26
		PN25	425	335	36	32	370	12	M27	-	30
		PN40	450	345	46	42	385	12	M30	-	33
		PN64	470	345	-	54	400	12	M33	-	36
		PN100	505	345	-	72	430	12	M36	-	39
		PN160	545	345	-	90	460	12	M42	-	45
• JIS B 2210:1984 (PN 5-63)		PN5	385	317	26	22	345	12	M20	-	23
		PN10	400	324	30	24	355	12	M22	-	25
		PN16	430	345	34	28	380	12	M24	-	27
		PN20	430	345	38	34	380	12	M24	-	28
		PN30	450	345	-	48	390	12	M30	-	33
		PN40	475	355	-	56	410	12	M30	-	33
		PN63	500	355	-	68	430	12	M36	-	39

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size		
					Iron	Steel			Metric	Inch	
• AS 2129:1994 (Table A to T)		A	455	378	24	19	406	8	M20	-	22
		C	455	378	29	16	406	12	M20	-	22
		D	455	378	25	19	406	12	M20	-	22
		E	455	374	29	25	406	12	M24	-	26
		F	490	406	32	32	438	16	M24	-	26
		H	490	362	44	41	438	16	M24	-	26
		J	490	362	-	51	438	16	M27	-	30
		K	490	362	-	57	432	16	M30	-	33
		R	510	362	-	70	457	16	M30	-	33
		S	580	381	-	92	508	16	M39	-	42
	T	655	413	-	121	572	16	M45	-	48	
• AS 4087:1993 (Class 14,16,21,35)		14/16	455	378	29	16	406	12	M20	-	22
		21/35	490	406	32	32	438	16	M24	-	26
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	482.6	381	31.8	-	431.8	12	-	7/8	25.4
		250	520.7	418	50.8	-	450.9	16	-	11/8	31.8
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	482.6	381	-	31.75	431.8	12	-	7/8	25.4
		300	520.7	381	-	50.8	450.9	16	-	11/8	31.8
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	558.8	381	-	66.5	489	20	-	11/4	35.1
		900	609.6	381	-	79.2	533.4	20	-	13/8	38.1
		1500	673.1	381	-	124	571.5	16	-	2	53.8
		2500	762	381	-	184.2	619.3	12	-	23/4	73.2
• ISO 7005-1:1992 (PN 20-420)		PN20	485	381	-	32	432	12	M24	-	26
		PN50	520	381	-	51	451	16	M30	-	32.5
		PN110	560	381	-	67	489	20	M33	-	35.5
		PN150	610	381	-	79.5	533.5	20	M36	-	39
		PN260	675	381	-	124	571.5	16	M52	-	55
		PN420	760	381	-	184.5	619	12	M70	-	74
• DIN 2501-Part 1 (PN 6-100)		PN6	440	365	24	24	395	12	M20	-	22
		PN10	445	370	28	26	400	12	M20	-	22
• ISO 7005-1:1992 (PN 6-40)		PN16	460	378	32	28	410	12	M24	-	26
		PN25	485	395	40	38	430	16	M27	-	30
		PN40	515	410	50	50	450	16	M30	-	33
		PN64	530	410	-	62	460	16	M33	-	36
		PN100	585	410	-	84	500	16	M39	-	42
		PN160	640	410	-	100	560	16	M45	-	48
• JIS B 2210:1984 (PN 5-63)		PN5	430	360	28	22	390	12	M20	-	23
		PN10	445	368	32	24	400	16	M22	-	25
		PN16	480	395	36	30	430	16	M24	-	27
		PN20	480	395	40	36	430	16	M24	-	27
		PN30	515	405	-	52	450	16	M30	-	33
		PN40	540	410	-	60	470	16	M36	-	39
		PN63	560	410	-	77	485	16	M36	-	39

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	525	438	25	22	470	8	M24	-	26
		C	525	438	32	19	470	12	M24	-	26
		D	525	438	29	22	470	12	M24	-	26
		E	525	438	32	29	470	12	M24	-	26
		F	550	459	35	35	495	16	M27	-	30
		H	550	419	48	48	495	16	M27	-	30
		J	550	419	-	57	495	16	M30	-	33
		K	570	419	-	67	508	16	M33	-	36
		R	585	419	-	79	527	16	M33	-	36
		S	650	438	-	105	578	20	M39	-	42
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	525	438	32	19	470	12	M24	-	26
		21/35	550	459	35	35	495	16	M27	-	30
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	533.4	413	35.1	-	476.3	12	-	1	28.4
• BS 1560-Section 3.2:1989 (Class 125,250)		250	584.2	481	53.8	-	514.4	20	-	11/8	31.8
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	533.4	412.8	-	35.1	476.3	12	-	1	28.4
		300	584.2	412.8	-	53.8	514.4	20	-	11/8	31.8
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	603.3	412.8	-	69.9	527.1	20	-	13/8	38.1
		900	641.4	412.8	-	85.9	558.8	20	-	11/2	41.1
		1500	749.3	412.8	-	133.4	635	16	-	21/4	60.5
		2500	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 20-420)		PN20	535	413	-	35	476	12	M27	-	29.5
		PN50	585	413	-	54	514.5	20	M30	-	32.5
		PN110	605	413	-	70	527	20	M36	-	39
		PN150	640	413	-	86	559	20	M39	-	42
		PN260	750	413	-	133.5	635	16	M56	-	60
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	490	415	26	26	445	12	M20	-	22
• ISO 7005-1:1992 (PN 6-40)		PN10	505	430	30	28	460	16	M20	-	22
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	520	438	36	32	470	16	M24	-	26
		PN25	555	450	44	42	490	16	M30	-	33
		PN40	580	465	54	56	510	16	M33	-	36
		PN64	600	465	-	72	525	16	M36	-	39
		PN100	655	465	-	95	560	16	M45	-	48
		PN160	700	465	-	110	590	16	M48	-	51
• JIS B 2210:1984 (PN 5-63)		PN5	480	403	30	24	435	12	M22	-	25
		PN10	490	413	34	26	445	16	M22	-	25
		PN16	540	440	38	34	480	16	M30	-	33
		PN20	540	440	44	40	480	16	M30	-	33
		PN30	560	450	-	54	495	16	M30	-	33
		PN40	585	455	-	64	515	16	M36	-	39
		PN63	615	455	-	81	530	16	M42	-	46

Notes:
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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:2000		A	-	-	-	-	-	-	-	-	-
		C	-	-	-	-	-	-	-	-	-
		D	-	-	-	-	-	-	-	-	-
		E	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-
		H	-	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-	-
• AS 4087:2004		14	550	-	32	-	495	12	M24	-	26
		16	550	463	33	30	495	12	M24	-	26
		21	580	485	35	38	521	16	M27	-	30
		35	580	485	51	48	521	16	M27	-	30
• ASME/ANSI B 16.1:1998 (Class 125,250)		125	-	-	-	-	-	-	-	-	-
	• BS 1560-Section 3.2:1989 (Class 125,250)	250	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.5:1996 (Class 150-2500)		150	-	-	-	-	-	-	-	-	-
		300	-	-	-	-	-	-	-	-	-
	• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-
			900	-	-	-	-	-	-	-	-
			1500	-	-	-	-	-	-	-	-
			2500	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 20-420)		PN20	-	-	-	-	-	-	-	-	-
		PN50	-	-	-	-	-	-	-	-	-
		PN110	-	-	-	-	-	-	-	-	-
		PN150	-	-	-	-	-	-	-	-	-
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 6-40)		PN6	-	-	-	-	-	-	-	-	-
• DIN 2501-1972 (PN 6-100)		PN10	-	-	-	-	-	-	-	-	-
• EN 1092-2:1997 (PN 6-40)		PN16	-	-	-	-	-	-	-	-	-
		PN25	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
• JIS B 2238:1996		5	-	-	-	-	-	-	-	-	-
	• JIS B 2239:2004	10	-	-	-	-	-	-	-	-	-
		16	-	-	-	-	-	-	-	-	-
		20	-	-	-	-	-	-	-	-	-

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				
			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size		Hole Size
					Iron	Steel			Metric	Inch	
• AS 2129:1994 (Table A to T)		A	580	489	27	22	521	12	M24	-	26
		C	580	489	32	19	521	12	M24	-	26
		D	580	489	29	22	521	12	M24	-	26
		E	580	489	32	32	521	12	M24	-	26
		F	610	516	35	41	552	20	M27	-	30
		H	610	483	51	54	552	20	M27	-	30
		J	610	483	-	64	552	20	M30	-	33
		K	630	483	-	76	565	20	M33	-	36
		R	640	483	-	89	584	20	M33	-	36
		S	745	495	-	117	660	20	M45	-	48
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	580	489	32	19	521	12	M24	-	26
		21/35	610	516	35	41	552	20	M27	-	30
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	596.9	470	36.6	-	539.8	16	-	1	28.4
		250	647.7	535	57.2	-	571.5	20	-	11/4	35.1
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	596.9	469.9	-	36.6	539.8	16	-	1	28.4
		300	647.7	469.9	-	57.2	571.5	20	-	11/4	35.1
		600	685.8	469.9	-	76.2	603.3	20	-	11/2	41.1
		900	704.9	469.9	-	88.9	616	20	-	15/8	44.5
		1500	825.5	469.9	-	146.1	704.9	16	-	21/2	66.5
	2500	-	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 20-420)		PN20	600	470	-	37	540	16	M27	-	29.5
		PN50	650	470	-	57.5	571.5	20	M33	-	35.5
		PN110	685	470	-	76.5	603	20	M39	-	42
		PN150	705	470	-	89	616	20	M42	-	45
		PN260	825	470	-	146.5	705	16	M64	-	68
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	540	465	28	28	495	16	M20	-	22
• ISO 7005-1:1992 (PN 6-40)		PN10	565	482	32	32	515	16	M24	-	26
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	580	490	38	36	525	16	M27	-	30
		PN25	620	505	48	46	550	16	M33	-	36
		PN40	660	535	62	64	585	16	M36	-	39
		PN64	670	535	-	78	585	16	M39	-	42
		PN100	715	535	-	106	620	16	M45	-	48
		PN160	760	535	-	127	620	16	M45	-	48
• JIS B 2210:1984 (PN 5-63)		PN5	540	463	30	24	495	16	M22	-	25
		PN10	560	475	36	28	510	16	M24	-	27
		PN16	605	495	42	38	540	16	M30	-	33
		PN20	605	495	50	46	540	16	M30	-	33
		PN30	630	510	-	60	560	16	M36	-	39
		PN40	645	515	-	70	570	16	M36	-	39
		PN63	680	515	-	89	590	16	M42	-	46

Notes:

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	640	552	27	22	584	12	M24	-	26
		C	640	552	35	22	584	12	M24	-	26
		D	640	532	32	25	584	12	M24	-	26
		E	640	552	35	35	584	16	M24	-	26
		F	675	571	38	44	610	20	M30	-	33
		H	675	533	54	60	610	20	M30	-	33
		J	675	533	-	70	610	20	M33	-	36
		K	720	572	-	89	654	20	M36	-	39
		R	735	572	-	98	673	20	M36	-	39
		S	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	640	552	35	22	584	12	M24	-	26
		21/35	675	571	38	44	610	20	M30	-	33
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	635	533	39.6	-	577.9	16	-	11/8	31.8
• BS 1560-Section 3.2:1989 (Class 125,250)		250	711.2	592	60.5	-	628.7	24	-	11/4	35.1
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	635	533.4	-	39.6	577.9	16	-	11/8	31.8
		300	711.2	533.4	-	60.5	628.7	24	-	11/4	35.1
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	743	533.4	-	82.6	654.1	20	-	15/8	44.5
		900	787.4	533.4	-	101.6	685.8	20	-	17/8	50.8
		1500	914.4	533.4	-	162	774.7	16	-	23/4	73.2
		2500	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 20-420)		PN20	635	533.5	-	40	578	16	M30	-	32.5
		PN50	710	533.5	-	60.5	628.5	24	M33	-	35.5
		PN110	745	533.5	-	83	654	20	M42	-	45
		PN150	785	533.5	-	102	686	20	M48	-	51
		PN260	915	533.5	-	162	774.5	16	M70	-	74
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	595	520	30	30	550	16	M20	-	22
• ISO 7005-1:1992 (PN 6-40)		PN10	615	532	32	36	565	20	M24	-	26
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	640	550	50	40	585	20	M27	-	30
		PN25	670	550	50	52	600	20	M33	-	35.5
		PN40	685	560	-	68	610	20	M36	-	39
		PN64	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
		PN150	-	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	605	523	30	24	555	16	M22	-	25
		PN10	620	530	38	30	565	20	M24	-	27
		PN16	675	560	46	40	605	20	M30	-	33
		PN20	675	560	54	48	605	20	M30	-	33
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	705	609	29	25	641	12	M24	-	26
		C	705	609	38	25	641	16	M24	-	26
		D	705	609	32	29	641	16	M24	-	26
		E	705	609	38	38	641	16	M24	-	26
		F	735	634	41	51	673	24	M30	-	33
		H	735	597	57	67	673	24	M30	-	33
		J	735	597	-	79	673	24	M33	-	36
		K	785	622	-	98	711	20	M39	-	42
		R	805	622	-	105	730	20	M39	-	42
		S	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	705	609	38	25	641	16	M24	-	26
		21/35	735	634	41	51	673	24	M30	-	33
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	698.5	584	42.9	-	635	20	-	11/8	31.8
		250	774.7	649	63.5	-	685.8	24	-	11/4	35.1
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	698.5	584.2	-	42.9	635	20	-	11/8	31.8
		300	774.7	584.2	-	63.5	685.8	24	-	11/4	35.1
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	812.8	584.2	-	88.9	723.9	24	-	15/8	44.5
		900	857.3	584.2	-	108	749.3	20	-	2	53.8
		1500	984.3	584.2	-	177.8	831.9	16	-	3	79.2
	2500	-	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 20-420)		PN20	700	584.5	-	43	635	20	M30	-	32.5
		PN50	775	584.5	-	63.5	686	24	M33	-	35.5
		PN110	815	584.5	-	89	724	24	M42	-	45
		PN150	855	584.5	-	108	749.5	20	M52	-	55
		PN260	985	584.5	-	178	832	16	M76	-	80
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	645	570	30	30	600	20	M20	-	22
• ISO 7005-1:1992 (PN 6-40)		PN10	670	585	34	38	620	20	M24	-	26
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	715	610	42	44	650	20	M30	-	33
		PN25	730	615	52	58	660	20	M33	-	36
		PN40	755	615	-	-	670	20	M39	-	42
		PN64	800	615	-	-	705	20	M45	-	48
		PN100	870	615	-	-	760	20	M52	-	56
		PN100	870	615	-	-	760	20	M52	-	56
• JIS B 2210:1984 (PN 5-63)		PN5	655	573	32	24	605	20	M22	-	25
		PN10	675	585	40	30	620	20	M24	-	27
		PN16	730	615	50	42	660	20	M30	-	33
		PN20	730	615	58	50	660	20	M30	-	33
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	760	663	30	25	699	12	M27	-	30
		C	760	663	38	25	699	16	M27	-	30
		D	760	637	35	29	699	16	M27	-	30
		E	760	663	38	44	699	16	M27	-	30
		F	785	685	41	54	724	24	M30	-	33
		H	785	648	60	70	724	24	M30	-	33
		J	785	648	-	86	724	24	M33	-	36
		K	870	673	-	105	781	20	M52	-	55
		R	895	673	-	114	806	20	M52	-	55
		S	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	-
		21/35	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-	-
		250	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.2:1989 (Class 125,250)		150	-	-	-	-	-	-	-	-	-
		300	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.5:1988 (Class 150-2500)		600	-	-	-	-	-	-	-	-	-
		900	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.1:1989 (Class 150-2500)		1500	-	-	-	-	-	-	-	-	-
		2500	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 20-420)		PN20	750	641	-	46	692	20	M33	-	35.5
		PN50	840	641	-	66.5	743	24	M39	-	42
		PN110	870	641	-	95	778	24	M45	-	48
		PN150	-	-	-	-	-	-	-	-	-
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	-	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 6-40)		PN16	-	-	-	-	-	-	-	-	-
		PN25	-	-	-	-	-	-	-	-	-
• BS 4504-Section 3.2:1989 (PN6-40)		PN40	-	-	-	-	-	-	-	-	-
		PN64	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	720	630	32	26	665	20	M24	-	27
		PN10	745	640	42	32	680	20	M30	-	33
		PN16	795	670	54	44	720	20	M36	-	39
		PN20	795	670	62	52	720	20	M36	-	39
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				
			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size		Hole Size
					Iron	Steel			Metric	Inch	
• AS 2129:1994 (Table A to T)		A	825	720	30	25	756	12	M27	-	30
		C	825	720	41	29	756	16	M27	-	30
		D	825	720	35	32	756	16	M27	-	30
		E	825	717	41	48	756	16	M30	-	33
		F	850	739	44	57	781	24	M33	-	36
		H	850	699	64	76	781	24	M33	-	36
		J	850	699	-	92	781	24	M36	-	39
		K	-	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	825	720	41	29	756	16	M27	-	30
		21/35	850	739	44	57	781	24	M33	-	36
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	812.8	692	47.8	-	749.3	20	-	11/4	35.1
• BS 1560-Section 3.2:1989 (Class 125,250)		250	914.4	770	69.9	-	812.8	24	-	11/2	50.8
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	812.8	692.2	-	47.8	749.3	20	-	11/4	35.1
		300	914.4	692.2	-	69.9	812.8	24	-	11/2	41.2
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	934.8	692.2	-	101.6	838.2	24	-	17/8	50.8
		900	1041.4	692.2	-	139.7	901.7	20	-	21/2	66.5
		1500	1168.4	692.2	-	203.2	990.6	16	-	31/2	91.9
	2500	-	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 20-420)		PN20	815	692.5	-	48	749.5	20	M33	-	35.5
		PN50	915	692.5	-	70	813	24	M39	-	42
		PN110	940	692.5	-	102	838	24	M48	-	51
		PN150	1040	692.5	-	140	901.5	20	M64	-	68
		PN260	1170	692.5	-	203.5	990.5	16	M90	-	94
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	755	670	30	32	705	20	M24	-	26
• ISO 7005-1:1992 (PN 6-40)		PN10	780	685	36	42	725	20	M27	-	30
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	840	725	48	52	770	20	M33	-	36
		PN25	845	720	56	66	770	20	M36	-	39
		PN40	890	735	-	-	795	20	M45	-	48
		PN64	930	735	-	-	820	20	M52	-	56
		PN100	990	735	-	-	875	20	M56	-	62
		PN100	990	735	-	-	875	20	M56	-	62
• JIS B 2210:1984 (PN 5-63)		PN5	770	680	32	26	715	20	M24	-	27
		PN10	765	690	44	32	730	24	M30	-	33
		PN16	845	720	58	46	770	24	M36	-	39
		PN20	845	720	66	54	770	24	M36	-	39
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				
			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size		Hole Size
					Iron	Steel			Metric	Inch	
• AS 2129:1994 (Table A to T)		A	845	745	32	25	781	16	M27	-	30
		C	875	777	44	-	813	20	M27	-	30
		D	-	-	-	-	-	-	-	-	-
		E	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-
		H	-	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	-
		21/35	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.2:1989 (Class 125,250)		250	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-	-
		300	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-	-
		900	-	-	-	-	-	-	-	-	-
		1500	-	-	-	-	-	-	-	-	-
		2500	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 20-420)		PN20	870	749	-	68.5	806	24	M33	-	35.5
		PN50	970	749	-	79.5	876	28	M42	-	45
		PN110	1015	749	-	108	914	28	M48	-	51
		PN150	1085	749	-	140	952	20	M70	-	74
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 6-40)		PN10	-	-	-	-	-	-	-	-	-
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	-	-	-	-	-	-	-	-	-
		PN25	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN64	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
		PN150	-	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	825	735	34	26	770	24	M24	-	27
		PN10	845	740	46	34	780	24	M30	-	33
		PN16	895	770	-	48	820	24	M36	-	39
		PN20	945	790	-	60	850	24	M45	-	48
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size		
					Iron	Steel			Metric	Inch	
• AS 2129:1994 (Table A to T)		A	870	770	32	25	806	16	M27	-	30
		C	910	809	44	-	845	20	M27	-	30
		D	910	809	38	35	845	20	M27	-	30
		E	910	806	44	51	845	20	M30	-	33
		F	935	815	48	60	857	24	M33	-	36
		H	-	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	910	809	44	-	845	20	M27	-	30
		21/35	935	815	48	60	857	24	M33	-	36
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.2:1989 (Class 125,250)		250	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-	-
		300	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-	-
		900	-	-	-	-	-	-	-	-	-
		1500	-	-	-	-	-	-	-	-	-
		2500	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 20-420)		PN20	925	800	-	71.5	863	28	M33	-	35.5
		PN50	1035	800	-	85.5	940	28	M42	-	45
		PN110	1075	800	-	111	965	28	M52	-	55
		PN150	1165	800	-	143	1022	20	M76	-	80
		PN260	-	800	-	-	-	-	-	-	-
		PN420	-	800	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	860	775	32	34	810	24	M24	-	26
• ISO 7005-1:1992 (PN 6-40)		PN10	895	800	40	46	840	24	M27	-	30
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	910	795	54	58	840	24	M33	-	36
		PN25	960	820	-	-	875	24	M39	-	42
		PN40	995	840	-	-	900	24	M45	-	48
		PN64	1045	840	-	-	935	24	M52	-	56
		PN100	1145	840	-	-	1020	24	M64	-	70
		PN160	-	840	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	875	785	34	26	820	24	M24	-	27
		PN10	905	800	48	34	840	24	M30	-	33
		PN16	960	820	-	50	875	24	M39	-	42
		PN20	995	840	-	64	900	24	M45	-	48
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch			
• AS 2129:1994 (Table A to T)		A	945	847	32	25	883	20	M27	-	30	
		C	995	888	48	-	927	20	M30	-	33	
		D	995	888	41	41	927	20	M30	-	33	
		E	995	885	48	54	927	20	M33	-	36	
		F	1015	898	51	67	940	28	M33	-	36	
		H	-	-	-	-	-	-	-	-	-	
		J	-	-	-	-	-	-	-	-	-	
		K	-	-	-	-	-	-	-	-	-	
		R	-	-	-	-	-	-	-	-	-	
		S	-	-	-	-	-	-	-	-	-	
	T	-	-	-	-	-	-	-	-	-		
• AS 4087:1993 (Class 14,16,21,35)		14/16	995	888	48	-	927	20	M30	-	33	
		21/35	1015	898	51	67	940	28	M33	-	36	
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	984.3	-	53.8	-	914.4	28	-	11/4	35.1	
• BS 1560-Section 3.2:1989 (Class 125,250)		250	109.2	944.6	76.2	-	997	28	-	13/4	50.8	
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-	-	
		300	-	-	-	-	-	-	-	-	-	
	• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-	-
			900	-	-	-	-	-	-	-	-	-
			1500	-	-	-	-	-	-	-	-	-
	2500	-	-	-	-	-	-	-	-	-		
• ISO 7005-1:1992 (PN 20-420)		PN20	985	857	-	74.5	914	28	M33	-	35.5	
		PN50	1090	857	-	92	997	28	M45	-	48	
		PN110	1130	857	-	114	1022	28	M52	-	55	
		PN150	1230	857	-	149	1086	20	M76	-	80	
		PN260	-	-	-	-	-	-	-	-	-	
		PN420	-	-	-	-	-	-	-	-	-	
• DIN 2501-Part 1 (PN 6-100)		PN6	-	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 6-40)		PN10	-	-	-	-	-	-	-	-	-	
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	-	-	-	-	-	-	-	-	-	
		PN25	-	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	-	
		PN64	-	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	-	
• JIS B 2210:1984 (PN 5-63)		PN5	945	840	36	28	880	24	M30	-	33	
		PN10	970	855	50	36	900	24	M30	-	33	
		PN16	1020	880	-	52	935	24	M39	-	42	
		PN20	1080	900	-	68	970	24	M52	-	56	
		PN30	-	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	-	
		PN63	-	-	-	-	-	-	-	-	-	

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size	
			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size			
					Iron	Steel			Metric	Inch		
• AS 2129:1994 (Table A to T)		A	1005	904	32	25	940	20	M27	-	30	
		C	1060	942	48	-	984	20	M33	-	36	
		D	1060	942	41	41	984	20	M33	-	36	
		E	1060	942	48	54	984	20	M33	-	36	
		F	1060	942	52	68	984	28	M33	-	36	
		H	-	-	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	1060	942	48	-	984	20	M33	-	36	
		21/35	1060	942	52	68	984	28	M33	-	36	
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-	-	
• BS 1560-Section 3.2:1989 (Class 125,250)		250	-	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-	-	
		300	-	-	-	-	-	-	-	-	-	
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-	-	
		900	-	-	-	-	-	-	-	-	-	
		1500	-	-	-	-	-	-	-	-	-	
		2500	-	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 20-420)		PN20	1060	914	-	81	978	28	M39	-	42	
		PN50	1150	914	-	98.5	1054	28	M48	-	51	
		PN110	1195	914	-	117	1080	28	M56	-	60	
		PN150	1315	914	-	159	1156	20	M82	-	86	
		PN260	-	-	-	-	-	-	-	-	-	
		PN420	-	-	-	-	-	-	-	-	-	
• DIN 2501-Part 1 (PN 6-100)		PN6	975	880	34	38	920	24	M27	-	29.5	
• ISO 7005-1:1992 (PN 6-40)		PN10	1015	905	44	52	950	24	M30	-	33	
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	1025	900	58	64	950	24	M36	-	39	
		PN25	1085	930	-	-	990	24	M45	-	48	
		PN40	1140	960	-	-	1030	24	M52	-	56	
		PN64	1165	960	-	-	1050	24	M56	-	62	
		PN100	-	-	-	-	-	-	-	-	-	
		PN150	-	-	-	-	-	-	-	-	-	
• JIS B 2210:1984 (PN 5-63)		PN5	995	890	36	28	930	24	M30	-	33	
		PN10	1020	905	52	36	950	28	M30	-	33	
		PN16	1085	930	-	54	990	24	M45	-	48	
		PN20	1140	960	-	72	1030	24	M52	-	56	
		PN30	-	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	-	
		PN63	-	-	-	-	-	-	-	-	-	

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data					
			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size		Hole Size	
					Iron	Steel			Metric	Inch		
<ul style="list-style-type: none"> AS 2129:1994 (Table A to T) 		A	1030	929	32	29	965	20	M27	-	30	
		C	1090	974	51	-	1016	20	M33	-	36	
		D	1090	974	41	44	1016	20	M33	-	36	
		E	1090	974	51	57	1016	20	M33	-	36	
		F	1090	974	54	54	1016	32	M33	-	36	
		H	-	-	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	-	
<ul style="list-style-type: none"> AS 4087:1993 (Class 14,16,21,35) 		14/16	-	-	-	-	-	-	-	-	-	
		21/35	-	-	-	-	-	-	-	-	-	
<ul style="list-style-type: none"> ASME/ANSI B 16.1:1989 (Class 125,250) 		125	-	-	-	-	-	-	-	-	-	
		250	-	-	-	-	-	-	-	-	-	
<ul style="list-style-type: none"> BS 1560-Section 3.2:1989 (Class 125,250) 		150	-	-	-	-	-	-	-	-	-	
		300	-	-	-	-	-	-	-	-	-	
<ul style="list-style-type: none"> ASME/ANSI B 16.5:1988 (Class 150-2500) 		600	-	-	-	-	-	-	-	-	-	
		900	-	-	-	-	-	-	-	-	-	
<ul style="list-style-type: none"> BS 1560-Section 3.1:1989 (Class 150-2500) 		1500	-	-	-	-	-	-	-	-	-	
		2500	-	-	-	-	-	-	-	-	-	
<ul style="list-style-type: none"> ISO 7005-1:1992 (PN 20-420) 		PN20	1110	965	-	82.5	1029	32	M39	-	42	
		PN50	1205	965	-	102	1105	28	M48	-	51	
		PN110	1245	965	-	121	1130	28	M56	-	60	
		PN150	1395	965	-	165	1226	20	M82	-	86	
		PN260	-	-	-	-	-	-	-	-	-	
		PN420	-	-	-	-	-	-	-	-	-	
<ul style="list-style-type: none"> DIN 2501-Part 1 (PN 6-100) 		PN6	-	-	-	-	-	-	-	-	-	
		PN10	-	-	-	-	-	-	-	-	-	
<ul style="list-style-type: none"> ISO 7005-1:1992 (PN 6-40) 		PN16	-	-	-	-	-	-	-	-	-	
		PN25	-	-	-	-	-	-	-	-	-	
<ul style="list-style-type: none"> BS 4504-Section 3.2:1989 (PN6-40) 		PN40	-	-	-	-	-	-	-	-	-	
		PN64	-	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	-	
<ul style="list-style-type: none"> JIS B 2210:1984 (PN 5-63) 		PN5	1045	940	38	28	980	24	M30	-	33	
		PN10	1070	955	52	36	1000	28	M30	-	33	
		PN16	1135	980	-	56	1040	24	M45	-	48	
		PN20	1200	1020	-	74	1090	24	M52	-	56	
		PN30	-	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	-	
		PN63	-	-	-	-	-	-	-	-	-	

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				
			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size		Hole Size
					Iron	Steel			Metric	Inch	
• AS 2129:1994 (Table A to T)		A	1105	1005	35	29	1041	24	M27	-	30
		C	1175	1050	51	-	1092	24	M33	-	36
		D	1175	1050	44	48	1092	24	M33	-	36
		E	1175	1050	51	64	1092	24	M33	-	36
		F	1185	1060	57	76	1105	32	M36	-	39
		H	-	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	1175	1050	51	-	1092	24	M33	-	36
		21/35	1185	1060	57	76	1105	32	M36	-	39
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	1168.4	-	60.5	-	1085.9	32	-	11/2	41.1
• BS 1560-Section 3.2:1989 (Class 125,250)		250	1270	1109.7	85.9	-	1168.4	32	-	2	57.2
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-	-
		300	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-	-
		900	-	-	-	-	-	-	-	-	-
		1500	-	-	-	-	-	-	-	-	-
	2500	-	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 20-420)		PN20	1170	1022	-	90.5	1086	36	M39	-	42
		PN50	1270	1022	-	105	1168	32	M52	-	55
		PN110	1315	1022	-	124	1194	28	M64	-	68
		PN150	1460	1022	-	171	1289	20	M90	-	94
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	1075	980	36	42	1020	24	M27	-	30
• ISO 7005-1:1992 (PN 6-40)		PN10	1115	1005	46	56	1050	28	M30	-	33
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	1125	1000	62	72	1050	28	M36	-	39
		PN25	1185	1030	55.5	58	1090	28	M45	-	48
		PN40	1285	1070	-	-	1170	28	M52	-	56
		PN64	1285	1070	-	-	1170	28	M56	-	62
		PN100	-	-	-	-	-	-	-	-	-
		PN150	-	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	1095	990	38	30	1030	24	M30	-	33
		PN10	1120	1005	54	38	1050	28	M30	-	33
		PN16	1185	1030	-	58	1090	28	M45	-	48
		PN20	1250	1070	-	76	1140	28	M52	-	56
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		Hole Size
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-	
		C	-	-	-	-	-	-	-	-	
		D	-	-	-	-	-	-	-	-	
		E	-	-	-	-	-	-	-	-	
		F	-	-	-	-	-	-	-	-	
		H	-	-	-	-	-	-	-	-	
		J	-	-	-	-	-	-	-	-	
		K	-	-	-	-	-	-	-	-	
		R	-	-	-	-	-	-	-	-	
		S	-	-	-	-	-	-	-	-	
	T	-	-	-	-	-	-	-	-		
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	
		21/35	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-	
		250	-	-	-	-	-	-	-	-	
• BS 1560-Section 3.2:1989 (Class 125,250)		150	-	-	-	-	-	-	-	-	
		300	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.5:1988 (Class 150-2500)		600	-	-	-	-	-	-	-	-	
		900	-	-	-	-	-	-	-	-	
• BS 1560-Section 3.1:1989 (Class 150-2500)		1500	-	-	-	-	-	-	-	-	
		2500	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 20-420)		PN20	1240	1073	-	87.5	1150	32	M39	-	42
		PN50	1170	1029	-	108	1092	32	M39	-	42
		PN110	1270	1054	-	152	1162	28	M56	-	60
		PN150	1460	1099	-	190	1289	20	M90	-	94
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	-	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 6-40)		PN16	-	-	-	-	-	-	-	-	-
		PN25	-	-	-	-	-	-	-	-	-
• BS 4504-Section 3.2:1989 (PN6-40)		PN40	-	-	-	-	-	-	-	-	-
		PN64	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	-	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-	-
		PN16	-	-	-	-	-	-	-	-	-
		PN20	-	-	-	-	-	-	-	-	-
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	1180	1082	35	29	1118	24	M27	-	30
		C	1255	1133	54	-	1175	24	M33	-	36
		D	1255	1133	44	51	1175	24	M33	-	36
		E	1255	1130	54	67	1175	24	M36	-	39
		F	1275	1149	60	83	1194	36	M36	-	39
		H	-	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	1255	1133	54	-	1175	24	M33	-	36
		21/35	1275	1149	60	83	1194	36	M36	-	39
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-	-
		250	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.2:1989 (Class 125,250)		150	-	-	-	-	-	-	-	-	-
		300	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.5:1988 (Class 150-2500)		600	-	-	-	-	-	-	-	-	-
		900	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.1:1989 (Class 150-2500)		1500	-	-	-	-	-	-	-	-	-
		2500	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 20-420)		PN20	1290	1124	-	90.5	1200	36	M39	-	42
		PN50	1240	1086	-	114	1156	32	M42	-	45
		PN110	1320	1111	-	159	1213	32	M56	-	60
		PN150	1510	1162	-	197	1340	24	M90	-	94
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	1175	1080	36	46	1120	28	M27	-	30
		PN10	1230	1110	50	62	1160	28	M33	-	36
• ISO 7005-1:1992 (PN 6-40)		PN16	1255	1115	66	78	1170	28	M39	-	42
		PN25	1320	1140	60	-	1210	28	M52	-	56
• BS 4504-Section 3.2:1989 (PN6-40)		PN40	1360	1180	-	-	1250	28	M52	-	56
		PN64	1415	1180	-	-	1290	28	M64	-	70
		PN100	-	-	-	-	-	-	-	-	-
		PN16	1320	1140	-	62	1210	28	M52	-	56
• JIS B 2210:1984 (PN 5-63)		PN5	1195	1090	40	32	1130	28	M30	-	33
		PN10	1235	1110	58	40	1160	28	M36	-	39
		PN16	1320	1140	-	62	1210	28	M52	-	56
		PN20	-	-	-	-	-	-	-	-	-
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-	
		C	-	-	-	-	-	-	-	-	
		D	-	-	-	-	-	-	-	-	
		E	-	-	-	-	-	-	-	-	
		F	-	-	-	-	-	-	-	-	
		H	-	-	-	-	-	-	-	-	
		J	-	-	-	-	-	-	-	-	
		K	-	-	-	-	-	-	-	-	
		R	-	-	-	-	-	-	-	-	
		S	-	-	-	-	-	-	-	-	
	T	-	-	-	-	-	-	-	-		
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	
		21/35	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	1346.2	-	66.5	-	1257.3	36	-	11/2	41.1
		250	1447.8	1281.2	93.7	-	1339.9	36	-	2	57.2
• ASME/ANSI B 16.5:1988 (Class 150-2500) • BS 1560-Section 3.1:1989 (Class 150-2500)		150	-	-	-	-	-	-	-	-	
		300	-	-	-	-	-	-	-	-	
		600	-	-	-	-	-	-	-	-	
		900	-	-	-	-	-	-	-	-	
		1500	-	-	-	-	-	-	-	-	
		2500	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 20-420)		PN20	1345	1194	-	97.5	1257	36	M39	-	42
		PN50	1290	1137	-	119	1206	32	M42	-	45
		PN110	1405	1168	-	168	1283	28	M64	-	68
		PN150	1560	1213	-	206	1391	24	M90	-	94
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100) • ISO 7005-1:1992 (PN 6-40) • BS 4504-Section 3.2:1989 (PN6-40)		PN6	-	-	-	-	-	-	-	-	
		PN10	-	-	-	-	-	-	-	-	
		PN16	-	-	-	-	-	-	-	-	
		PN25	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	
		PN64	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	
• JIS B 2210:1984 (PN 5-63)		PN5	-	-	-	-	-	-	-	-	
		PN10	-	-	-	-	-	-	-	-	
		PN16	-	-	-	-	-	-	-	-	
		PN20	-	-	-	-	-	-	-	-	
		PN30	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	
		PN63	-	-	-	-	-	-	-	-	

Notes:

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		Hole Size
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-	
		C	-	-	-	-	-	-	-	-	
		D	-	-	-	-	-	-	-	-	
		E	-	-	-	-	-	-	-	-	
		F	-	-	-	-	-	-	-	-	
		H	-	-	-	-	-	-	-	-	
		J	-	-	-	-	-	-	-	-	
		K	-	-	-	-	-	-	-	-	
		R	-	-	-	-	-	-	-	-	
		S	-	-	-	-	-	-	-	-	
	T	-	-	-	-	-	-	-	-		
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	
		21/35	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	1346.2	-	66.5	-	1257.3	36	-	11/2 41.1	
		250	1447.8	1281.2	93.7	-	1339.9	36	-	2 57.2	
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-	
		300	-	-	-	-	-	-	-	-	
	• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-
			900	-	-	-	-	-	-	-	-
			1500	-	-	-	-	-	-	-	-
	2500	-	-	-	-	-	-	-	-		
• ISO 7005-1:1992 (PN 20-420)		PN20	1405	1245	-	102	1314	40	M39	- 42	
		PN50	1355	1194	-	124	1264	32	M45	- 48	
		PN110	1455	1226	-	173	1334	32	M64	- 68	
		PN150	1650	1270	-	214	1464	24	M95	- 99	
		PN260	-	-	-	-	-	-	-	- -	
		PN420	-	-	-	-	-	-	-	- -	
• DIN 2501-Part 1 (PN 6-100)		PN6	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 6-40)		PN10	-	-	-	-	-	-	-	-	
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	-	-	-	-	-	-	-	-	
		PN25	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	
		PN64	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	
• JIS B 2210:1984 (PN 5-63)		PN5	1305	1200	42	32	1240	28	M30	- 33	
		PN10	1345	1220	62	42	1270	28	M36	- 39	
		PN16	1420	1240	-	66	1310	32	M52	- 56	
		PN20	-	-	-	-	-	-	-	- -	
		PN30	-	-	-	-	-	-	-	- -	
		PN40	-	-	-	-	-	-	-	- -	
		PN63	-	-	-	-	-	-	-	- -	

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-	-
		C	-	-	-	-	-	-	-	-	-
		D	-	-	-	-	-	-	-	-	-
		E	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-
		H	-	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	-
		21/35	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-	-
		250	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.2:1989 (Class 125,250)		150	-	-	-	-	-	-	-	-	-
		300	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.5:1988 (Class 150-2500)		600	-	-	-	-	-	-	-	-	-
		900	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.1:1989 (Class 150-2500)		1500	-	-	-	-	-	-	-	-	-
		2500	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 20-420)		PN20	1455	1295	-	103	1365	40	M39	-	42
		PN50	1415	1245	-	129	1321	28	M48	-	51
		PN110	1510	1276	-	179	1391	32	M64	-	68
		PN150	1735	1334	-	225	1537	24	M100	-	105
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	-	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 6-40)		PN16	-	-	-	-	-	-	-	-	-
		PN25	-	-	-	-	-	-	-	-	-
• BS 4504-Section 3.2:1989 (PN6-40)		PN40	-	-	-	-	-	-	-	-	-
		PN64	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
		PN160	-	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	-	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-	-
		PN16	-	-	-	-	-	-	-	-	-
		PN20	-	-	-	-	-	-	-	-	-
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				
			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size		Hole Size
					Iron	Steel			Metric	Inch	
• AS 2129:1994 (Table A to T)		A	1415	1317	38	32	1353	28	M27	-	30
		C	1490	1368	60	-	1410	32	M33	-	36
		D	1490	1368	51	60	1410	32	M33	-	36
		E	1490	1365	60	79	1410	32	M36	-	39
		F	1530	1385	67	95	1441	40	M39	-	42
		H	-	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	1490	1368	60	-	1410	32	M33	-	36
		21/35	1530	1385	67	95	1441	40	M39	-	42
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	1511.3	-	69.9	-	1422.4	44	-	11/2	41.1
• BS 1560-Section 3.2:1989 (Class 125,250)		250	1651	1484.4	101.6	-	1543.1	40	-	2	57.2
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-	-
		300	1651	1484.4	101.6	-	1543.1	40	-	2	57.2
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-	-
		900	-	-	-	-	-	-	-	-	-
		1500	-	-	-	-	-	-	-	-	-
		2500	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 20-420)		PN20	1510	1359	-	108	1422	44	M39	-	42
		PN50	1465	1308	-	133	1372	32	M48	-	51
		PN110	1595	1334	-	189	1460	32	M70	-	74
		PN150	1785	1384	-	233	1588	24	M100	-	105
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	1405	1295	40	56	1340	32	M30	-	33
• ISO 7005-1:1992 (PN 6-40)		PN10	1455	1330	56	74	1380	32	M36	-	39
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	1485	1330	-	94	1390	32	M45	-	48
		PN25	1530	1350	-	-	1420	32	M52	-	56
		PN40	1575	1380	-	-	1460	32	M56	-	62
		PN64	1665	1380	-	-	1530	32	M72	-	78
		PN100	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	1420	1305	46	34	1350	32	M30	-	33
		PN10	1465	1325	66	44	1380	32	M36	-	39
		PN16	1530	1350	-	70	1420	32	M52	-	56
		PN20	-	-	-	-	-	-	-	-	-
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch	
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-
		C	-	-	-	-	-	-	-	-
		D	-	-	-	-	-	-	-	-
		E	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-
		H	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-
		21/35	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-
		250	-	-	-	-	-	-	-	-
• BS 1560-Section 3.2:1989 (Class 125,250)		150	-	-	-	-	-	-	-	-
		300	-	-	-	-	-	-	-	-
		600	-	-	-	-	-	-	-	-
		900	-	-	-	-	-	-	-	-
		1500	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.5:1988 (Class 150-2500)		2500	-	-	-	-	-	-	-	-
		PN20	1570	1410	-	111	1480	44	M45	48
		PN50	1530	1359	-	140	1429	32	M52	55
		PN110	1670	1384	-	197	1524	28	M76	80
		PN150	-	-	-	-	-	-	-	-
		PN260	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 20-420)		PN420	-	-	-	-	-	-	-	-
		PN6	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-
		PN16	-	-	-	-	-	-	-	-
		PN25	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-
		PN64	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN100	-	-	-	-	-	-	-	-
		PN5	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-
		PN16	-	-	-	-	-	-	-	-
		PN20	-	-	-	-	-	-	-	-
		PN30	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-
• BS 4504-Section 3.2:1989 (PN6-40)		PN63	-	-	-	-	-	-	-	-
		PN5	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-
		PN16	-	-	-	-	-	-	-	-
		PN20	-	-	-	-	-	-	-	-
		PN30	-	-	-	-	-	-	-	-

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		Hole Size
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-	
		C	-	-	-	-	-	-	-	-	
		D	-	-	-	-	-	-	-	-	
		E	-	-	-	-	-	-	-	-	
		F	-	-	-	-	-	-	-	-	
		H	-	-	-	-	-	-	-	-	
		J	-	-	-	-	-	-	-	-	
		K	-	-	-	-	-	-	-	-	
		R	-	-	-	-	-	-	-	-	
		S	-	-	-	-	-	-	-	-	
	T	-	-	-	-	-	-	-	-		
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	
		21/35	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-	
• BS 1560-Section 3.2:1989 (Class 125,250)		250	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-	
		300	-	-	-	-	-	-	-	-	
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-	
		900	-	-	-	-	-	-	-	-	
		1500	-	-	-	-	-	-	-	-	
	2500	-	-	-	-	-	-	-	-		
• ISO 7005-1:1992 (PN 20-420)		PN20	1625	1460	-	116	1537	44	M45	-	48
		PN50	1580	1410	-	144	1480	32	M52	-	55
		PN110	1720	1435	-	203	1575	32	M76	-	80
		PN150	-	-	-	-	-	-	-	-	-
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 6-40)		PN10	-	-	-	-	-	-	-	-	
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	-	-	-	-	-	-	-	-	
		PN25	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	
		PN64	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	
		PN160	-	-	-	-	-	-	-	-	
• JIS B 2210:1984 (PN 5-63)		PN5	-	-	-	-	-	-	-	-	
		PN10	-	-	-	-	-	-	-	-	
		PN16	-	-	-	-	-	-	-	-	
		PN20	-	-	-	-	-	-	-	-	
		PN30	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	
		PN63	-	-	-	-	-	-	-	-	

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				
			O/side Dia.	Raised Face Dia.	Thickness		Bolt Circle Dia.	No. of Bolts	Bolt Size		Hole Size
					Iron	Steel			Metric	Inch	
<ul style="list-style-type: none"> AS 2129:1994 (Table A to T) 		A	-	-	-	-	-	-	-	-	
		C	-	-	-	-	-	-	-	-	
		D	-	-	-	-	-	-	-	-	
		E	-	-	-	-	-	-	-	-	
		F	-	-	-	-	-	-	-	-	
		H	-	-	-	-	-	-	-	-	
		J	-	-	-	-	-	-	-	-	
		K	-	-	-	-	-	-	-	-	
		R	-	-	-	-	-	-	-	-	
		S	-	-	-	-	-	-	-	-	
	T	-	-	-	-	-	-	-	-		
<ul style="list-style-type: none"> AS 4087:1993 (Class 14,16,21,35) 		14/16	-	-	-	-	-	-	-	-	
		21/35	-	-	-	-	-	-	-	-	
<ul style="list-style-type: none"> ASME/ANSI B 16.1:1989 (Class 125,250) 		125	1682.8	-	76.2	-	1593.9	44	-	13/4	50.8
		250	-	-	-	-	-	-	-	-	-
<ul style="list-style-type: none"> BS 1560-Section 3.2:1989 (Class 125,250) 		150	-	-	-	-	-	-	-	-	
		300	-	-	-	-	-	-	-	-	
<ul style="list-style-type: none"> ASME/ANSI B 16.5:1988 (Class 150-2500) BS 1560-Section 3.1:1989 (Class 150-2500) 		600	-	-	-	-	-	-	-	-	
		900	-	-	-	-	-	-	-	-	
		1500	-	-	-	-	-	-	-	-	
		2500	-	-	-	-	-	-	-	-	
		2500	-	-	-	-	-	-	-	-	
<ul style="list-style-type: none"> ISO 7005-1:1992 (PN 20-420) 		PN20	1685	1511	-	121	1594	44	M45	-	48
		PN50	1660	1467	-	152	1549	28	M56	-	60
		PN110	1780	1492	-	210	1632	32	M76	-	80
		PN150	-	-	-	-	-	-	-	-	-
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
<ul style="list-style-type: none"> DIN 2501-Part 1 (PN 6-100) ISO 7005-1:1992 (PN 6-40) BS 4504-Section 3.2:1989 (PN6-40) 		PN6	-	-	-	-	-	-	-	-	
		PN10	-	-	-	-	-	-	-	-	
		PN16	-	-	-	-	-	-	-	-	
		PN25	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	
		PN64	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	
<ul style="list-style-type: none"> JIS B 2210:1984 (PN 5-63) 		PN5	1575	1460	48	34	1505	32	M30	-	33
		PN10	1630	1480	70	48	1540	36	M42	-	45
		PN16	1700	1510	-	76	1590	32	M56	-	62
		PN20	-	-	-	-	-	-	-	-	-
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		Hole Size
• AS 2129:1994 (Table A to T)		A	1700	1573	44	35	1615	32	M33	-	36
		C	-	-	-	-	-	-	-	-	-
		D	1700	1573	57	60	1615	36	M33	-	36
		E	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-
		H	-	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	-
		21/35	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.2:1989 (Class 125,250)		250	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-	-
		300	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-	-
		900	-	-	-	-	-	-	-	-	-
		1500	-	-	-	-	-	-	-	-	-
	2500	-	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 20-420)		PN20	1745	1575	-	124	1651	48	M45	-	48
		PN50	1710	1518	-	154	1600	28	M56	-	60
		PN110	1855	1543	-	217	1695	32	M82	-	86
		PN150	-	-	-	-	-	-	-	-	-
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	1630	1510	-	-	1560	36	M33	-	36
• ISO 7005-1:1992 (PN 6-40)		PN10	1675	1535	-	-	1590	36	M39	-	42
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	1685	1530	-	-	1590	36	M45	-	48
		PN25	1755	1560	-	-	1640	36	M56	-	60
		PN40	1795	1600	-	-	1680	36	M56	-	62
		PN64	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
		PN160	-	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	-	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-	-
		PN16	1755	1560	-	78	1640	36	M56	-	62
		PN20	-	-	-	-	-	-	-	-	-
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-	-
		C	-	-	-	-	-	-	-	-	-
		D	-	-	-	-	-	-	-	-	-
		E	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-
		H	-	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	-
		21/35	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-	-
		250	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.5:1988 (Class 150-2500) • BS 1560-Section 3.1:1989 (Class 150-2500)		150	-	-	-	-	-	-	-	-	-
		300	-	-	-	-	-	-	-	-	-
		600	-	-	-	-	-	-	-	-	-
		900	-	-	-	-	-	-	-	-	-
		1500	-	-	-	-	-	-	-	-	-
	2500	-	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 20-420)		PN20	1805	1626	-	129	1708	48	M45	-	48
		PN50	1760	1575	-	159	1651	32	M56	-	60
		PN110	1905	1600	-	222	1746	32	M82	-	86
		PN150	-	-	-	-	-	-	-	-	-
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100) • ISO 7005-1:1992 (PN 6-40) • BS 4504-Section 3.2:1989 (PN6-40)		PN6	-	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-	-
		PN16	-	-	-	-	-	-	-	-	-
		PN25	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN64	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	-	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-	-
		PN16	-	-	-	-	-	-	-	-	-
		PN20	-	-	-	-	-	-	-	-	-
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-	
		C	-	-	-	-	-	-	-	-	
		D	-	-	-	-	-	-	-	-	
		E	-	-	-	-	-	-	-	-	
		F	-	-	-	-	-	-	-	-	
		H	-	-	-	-	-	-	-	-	
		J	-	-	-	-	-	-	-	-	
		K	-	-	-	-	-	-	-	-	
		R	-	-	-	-	-	-	-	-	
		S	-	-	-	-	-	-	-	-	
	T	-	-	-	-	-	-	-	-		
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	
		21/35	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	1854.2	-	79.2	-	1759	52	-	13/4	50.8
		250	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.2:1989 (Class 125,250)		150	-	-	-	-	-	-	-	-	
		300	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.5:1988 (Class 150-2500)		600	-	-	-	-	-	-	-	-	
		900	-	-	-	-	-	-	-	-	
• BS 1560-Section 3.1:1989 (Class 150-2500)		1500	-	-	-	-	-	-	-	-	
		2500	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 20-420)		PN20	1855	1676	-	132	1759	52	M45	-	48
		PN50	1810	1625	-	164	1702	32	M56	-	60
		PN110	1995	1657	-	233	1822	28	M90	-	94
		PN150	-	-	-	-	-	-	-	-	-
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	-	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 6-40)		PN16	-	-	-	-	-	-	-	-	-
		PN25	-	-	-	-	-	-	-	-	-
• BS 4504-Section 3.2:1989 (PN6-40)		PN40	-	-	-	-	-	-	-	-	-
		PN64	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	1730	1615	52	36	1660	36	M30	-	33
		PN10	1795	1635	74	50	1700	40	M42	-	45
		PN16	1865	1670	-	80	1750	36	M36	-	62
		PN20	-	-	-	-	-	-	-	-	-
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	1910	1783	48	38	1825	32	M33	-	36
		C	-	-	-	-	-	-	-	-	-
		D	1910	1780	60	64	1825	40	M36	-	39
		E	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-
		H	-	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	-
		21/35	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.2:1989 (Class 125,250)		250	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-	-
		300	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-	-
		900	-	-	-	-	-	-	-	-	-
		1500	-	-	-	-	-	-	-	-	-
		2500	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 20-420)		PN20	-	-	-	-	-	-	-	-	-
		PN50	-	-	-	-	-	-	-	-	-
		PN110	-	-	-	-	-	-	-	-	-
		PN150	-	-	-	-	-	-	-	-	-
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	1830	1710	-	-	1760	40	M33	-	36
• ISO 7005-1:1992 (PN 6-40)		PN10	1915	1760	-	-	1820	40	M45	-	48
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	1930	1750	-	-	1820	40	M52	-	56
		PN25	1975	1780	-	-	1860	40	M56	-	60
		PN40	2025	1815	-	-	1900	40	M64	-	70
		PN64	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
		PN160	-	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	-	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-	-
		PN16	-	-	-	-	-	-	-	-	-
		PN20	-	-	-	-	-	-	-	-	-
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	2110	1974	60	44	2019	36	M36	-	39
		C	-	-	-	-	-	-	-	-	-
		D	2110	1971	67	73	2019	44	M39	-	42
		E	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-
		H	-	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	-
		21/35	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	2197.1	-	88.9	-	2095.5	60	-	13/4	50.8
• BS 1560-Section 3.2:1989 (Class 125,250)		250	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-	-
		300	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-	-
		900	-	-	-	-	-	-	-	-	-
		1500	-	-	-	-	-	-	-	-	-
		2500	-	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 20-420)		PN20	-	-	-	-	-	-	-	-	-
		PN50	-	-	-	-	-	-	-	-	-
		PN110	-	-	-	-	-	-	-	-	-
		PN150	-	-	-	-	-	-	-	-	-
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	2045	1920	-	-	1970	44	M36	-	39
• ISO 7005-1:1992 (PN 6-40)		PN10	2115	1960	-	-	2020	44	M45	-	48
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	2130	1950	-	-	2020	44	M52	-	56
		PN25	2195	1985	-	-	2070	44	M64	-	69
		PN40	-	-	-	-	-	-	-	-	-
		PN64	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
		PN160	-	-	-	-	-	-	-	-	-
		PN250	-	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	-	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-	-
		PN16	-	-	-	-	-	-	-	-	-
		PN20	-	-	-	-	-	-	-	-	-
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch	
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-
		C	-	-	-	-	-	-	-	-
		D	2345	2202	70	67	2250	44	M39	42
		E	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-
		H	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-
		21/35	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-
• BS 1560-Section 3.2:1989 (Class 125,250)		250	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-
		300	-	-	-	-	-	-	-	-
• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-
		900	-	-	-	-	-	-	-	-
		1500	-	-	-	-	-	-	-	-
		2500	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 20-420)		PN20	-	-	-	-	-	-	-	-
		PN50	-	-	-	-	-	-	-	-
		PN110	-	-	-	-	-	-	-	-
		PN150	-	-	-	-	-	-	-	-
		PN260	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	2265	2125	-	-	2180	48	M39	42
• ISO 7005-1:1992 (PN 6-40)		PN10	2325	2170	-	-	2230	48	M45	48
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	2345	2150	-	-	2230	48	M56	61
		PN25	2425	2210	-	-	2300	48	M64	69
		PN40	-	-	-	-	-	-	-	-
		PN64	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-
		PN160	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-
		PN16	-	-	-	-	-	-	-	-
		PN20	-	-	-	-	-	-	-	-
		PN30	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-	
		C	-	-	-	-	-	-	-	-	
		D	-	-	-	-	-	-	-	-	
		E	-	-	-	-	-	-	-	-	
		F	-	-	-	-	-	-	-	-	
		H	-	-	-	-	-	-	-	-	
		J	-	-	-	-	-	-	-	-	
		K	-	-	-	-	-	-	-	-	
		R	-	-	-	-	-	-	-	-	
		S	-	-	-	-	-	-	-	-	
	T	-	-	-	-	-	-	-	-		
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	
		21/35	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	2533.7	-	98.6	-	2425.7	64	-	2	57.2
		250	-	-	-	-	-	-	-	-	-
• BS 1560-Section 3.2:1989 (Class 125,250)		150	-	-	-	-	-	-	-	-	
		300	-	-	-	-	-	-	-	-	
	• ASME/ANSI B 16.5:1988 (Class 150-2500)		600	-	-	-	-	-	-	-	-
			900	-	-	-	-	-	-	-	-
			1500	-	-	-	-	-	-	-	-
	2500	-	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 20-420)		PN20	-	-	-	-	-	-	-	-	
		PN50	-	-	-	-	-	-	-	-	
		PN110	-	-	-	-	-	-	-	-	
		PN150	-	-	-	-	-	-	-	-	
		PN260	-	-	-	-	-	-	-	-	
		PN420	-	-	-	-	-	-	-	-	
• DIN 2501-Part 1 (PN 6-100) • ISO 7005-1:1992 (PN 6-40) • BS 4504-Section 3.2:1989 (PN6-40)		PN6	-	-	-	-	-	-	-	-	
		PN10	-	-	-	-	-	-	-	-	
		PN16	-	-	-	-	-	-	-	-	
		PN25	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	
		PN64	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	
	• JIS B 2210:1984 (PN 5-63)		PN5	-	-	-	-	-	-	-	-
			PN10	-	-	-	-	-	-	-	-
			PN16	-	-	-	-	-	-	-	-
		PN20	-	-	-	-	-	-	-	-	
		PN30	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	
		PN63	-	-	-	-	-	-	-	-	

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		Hole Size
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-	
		C	-	-	-	-	-	-	-	-	
		D	2560	2406	73	83	2460	44	M45	48	
		E	-	-	-	-	-	-	-	-	
		F	-	-	-	-	-	-	-	-	
		H	-	-	-	-	-	-	-	-	
		J	-	-	-	-	-	-	-	-	
		K	-	-	-	-	-	-	-	-	
		R	-	-	-	-	-	-	-	-	
		S	-	-	-	-	-	-	-	-	
	T	-	-	-	-	-	-	-	-		
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	
		21/35	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.1:1989 (Class 125,250)											
		125	-	-	-	-	-	-	-	-	
• BS 1560-Section 3.2:1989 (Class 125,250)											
		250	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.5:1988 (Class 150-2500)											
		150	-	-	-	-	-	-	-	-	
		300	-	-	-	-	-	-	-	-	
	• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-
			900	-	-	-	-	-	-	-	-
	1500	-	-	-	-	-	-	-	-		
	2500	-	-	-	-	-	-	-	-		
• ISO 7005-1:1992 (PN 20-420)											
		PN20	-	-	-	-	-	-	-	-	
		PN50	-	-	-	-	-	-	-	-	
		PN110	-	-	-	-	-	-	-	-	
		PN150	-	-	-	-	-	-	-	-	
		PN260	-	-	-	-	-	-	-	-	
	PN420	-	-	-	-	-	-	-	-		
• DIN 2501-Part 1 (PN 6-100) • ISO 7005-1:1992 (PN 6-40) • BS 4504-Section 3.2:1989 (PN6-40)											
		PN6	2475	2335	-	-	2390	52	M39	42	
		PN10	2550	2370	-	-	2440	52	M52	55	
		PN16	2555	2360	-	-	2440	52	M56	62	
		PN25	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	
		PN64	-	-	-	-	-	-	-	-	
		PN100	-	-	-	-	-	-	-	-	
	• JIS B 2210:1984 (PN 5-63)										
			PN5	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-	
		PN16	-	-	-	-	-	-	-	-	
		PN20	-	-	-	-	-	-	-	-	
		PN30	-	-	-	-	-	-	-	-	
		PN40	-	-	-	-	-	-	-	-	
	PN63	-	-	-	-	-	-	-	-		

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Standard	Flange Type	Class Rating Table	Flange Dimensions				Bolt Data				Hole Size
			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-	-
		C	-	-	-	-	-	-	-	-	-
		D	2775	2619	83	92	2673	52	M45	-	48
		E	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-
		H	-	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	-
		21/35	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	2876.6	-	108	-	2755.9	68	-	21/4	63.5
• BS 1560-Section 3.2:1989 (Class 125,250)		250	-	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-	-
		300	-	-	-	-	-	-	-	-	-
	• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-
			900	-	-	-	-	-	-	-	-
			1500	-	-	-	-	-	-	-	-
	2500	-	-	-	-	-	-	-	-	-	
• ISO 7005-1:1992 (PN 20-420)		PN20	-	-	-	-	-	-	-	-	-
		PN50	-	-	-	-	-	-	-	-	-
		PN110	-	-	-	-	-	-	-	-	-
		PN150	-	-	-	-	-	-	-	-	-
		PN260	-	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	2685	2545	-	-	2600	56	M39	-	42
• ISO 7005-1:1992 (PN 6-40)		PN10	2760	2570	-	-	2650	56	M52	-	55
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	-	-	-	-	-	-	-	-	-
		PN25	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN64	-	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-	-
		PN160	-	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	-	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-	-
		PN16	-	-	-	-	-	-	-	-	-
		PN20	-	-	-	-	-	-	-	-	-
		PN30	-	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-	-
		PN63	-	-	-	-	-	-	-	-	-

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			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch	
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-
		C	-	-	-	-	-	-	-	-
		D	-	-	-	-	-	-	-	-
		E	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-
		H	-	-	-	-	-	-	-	-
		J	-	-	-	-	-	-	-	-
		K	-	-	-	-	-	-	-	-
		R	-	-	-	-	-	-	-	-
		S	-	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-	-	
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-
		21/35	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-
		250	-	-	-	-	-	-	-	-
• BS 1560-Section 3.2:1989 (Class 125,250)		150	-	-	-	-	-	-	-	-
		300	-	-	-	-	-	-	-	-
• ASME/ANSI B 16.5:1988 (Class 150-2500)		600	-	-	-	-	-	-	-	-
		900	-	-	-	-	-	-	-	-
• BS 1560-Section 3.1:1989 (Class 150-2500)		1500	-	-	-	-	-	-	-	-
		2500	-	-	-	-	-	-	-	-
• ISO 7005-1:1992 (PN 20-420)		PN20	-	-	-	-	-	-	-	-
		PN50	-	-	-	-	-	-	-	-
		PN110	-	-	-	-	-	-	-	-
		PN150	-	-	-	-	-	-	-	-
		PN260	-	-	-	-	-	-	-	-
		PN420	-	-	-	-	-	-	-	-
• DIN 2501-Part 1 (PN 6-100)		PN6	2905	-	-	2810	60	M45	-	48
• ISO 7005-1:1992 (PN 6-40)		PN10	2960	-	-	2850	60	M52	-	55
• BS 4504-Section 3.2:1989 (PN6-40)		PN16	-	-	-	-	-	-	-	-
		PN25	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-
		PN64	-	-	-	-	-	-	-	-
		PN100	-	-	-	-	-	-	-	-
		PN160	-	-	-	-	-	-	-	-
• JIS B 2210:1984 (PN 5-63)		PN5	-	-	-	-	-	-	-	-
		PN10	-	-	-	-	-	-	-	-
		PN16	-	-	-	-	-	-	-	-
		PN20	-	-	-	-	-	-	-	-
		PN30	-	-	-	-	-	-	-	-
		PN40	-	-	-	-	-	-	-	-
	PN63	-	-	-	-	-	-	-	-	

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			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		Hole Size	
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-		
		C	-	-	-	-	-	-	-	-		
		D	3200	3036	89	102	3090	56	M45	-	48	
		E	-	-	-	-	-	-	-	-	-	
		F	-	-	-	-	-	-	-	-	-	
		H	-	-	-	-	-	-	-	-	-	
		J	-	-	-	-	-	-	-	-	-	
		K	-	-	-	-	-	-	-	-	-	
		R	-	-	-	-	-	-	-	-	-	
		S	-	-	-	-	-	-	-	-	-	
	T	-	-	-	-	-	-	-	-	-		
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-		
		21/35	-	-	-	-	-	-	-	-		
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-		
		250	-	-	-	-	-	-	-	-		
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-		
		300	-	-	-	-	-	-	-	-		
	• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	-	
			900	-	-	-	-	-	-	-	-	
			1500	-	-	-	-	-	-	-	-	
	2500	-	-	-	-	-	-	-	-			
• ISO 7005-1:1992 (PN 20-420)		PN20	-	-	-	-	-	-	-	-		
		PN50	-	-	-	-	-	-	-	-		
		PN110	-	-	-	-	-	-	-	-		
		PN150	-	-	-	-	-	-	-	-		
		PN260	-	-	-	-	-	-	-	-		
		PN420	-	-	-	-	-	-	-	-		
• DIN 2501-Part 1 (PN 6-100)		PN6	3115	2960	-	-	3020	64	M45	-	48	
	• ISO 7005-1:1992 (PN 6-40)		PN10	3180	3000	-	-	3070	64	M52	-	55
			PN16	-	-	-	-	-	-	-	-	-
	• BS 4504-Section 3.2:1989 (PN6-40)		PN25	-	-	-	-	-	-	-	-	
			PN40	-	-	-	-	-	-	-	-	
			PN64	-	-	-	-	-	-	-	-	
			PN100	-	-	-	-	-	-	-	-	
			PN16	-	-	-	-	-	-	-	-	
	• JIS B 2210:1984 (PN 5-63)		PN5	-	-	-	-	-	-	-	-	
			PN10	-	-	-	-	-	-	-	-	
		PN16	-	-	-	-	-	-	-	-		
		PN20	-	-	-	-	-	-	-	-		
		PN30	-	-	-	-	-	-	-	-		
		PN40	-	-	-	-	-	-	-	-		
		PN63	-	-	-	-	-	-	-	-		

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			O/side Dia.	Raised Face Dia.	Thickness Iron Steel		Bolt Circle Dia.	No. of Bolts	Bolt Size Metric Inch		Hole Size
• AS 2129:1994 (Table A to T)		A	-	-	-	-	-	-	-	-	
		C	-	-	-	-	-	-	-	-	
		D	3430	3254	95	114	3315	60	M52	55	
		E	-	-	-	-	-	-	-	-	
		F	-	-	-	-	-	-	-	-	
		H	-	-	-	-	-	-	-	-	
		J	-	-	-	-	-	-	-	-	
		K	-	-	-	-	-	-	-	-	
		R	-	-	-	-	-	-	-	-	
		S	-	-	-	-	-	-	-	-	
	T	-	-	-	-	-	-	-	-		
• AS 4087:1993 (Class 14,16,21,35)		14/16	-	-	-	-	-	-	-	-	
		21/35	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.1:1989 (Class 125,250)		125	-	-	-	-	-	-	-	-	
		250	-	-	-	-	-	-	-	-	
• ASME/ANSI B 16.5:1988 (Class 150-2500)		150	-	-	-	-	-	-	-	-	
		300	-	-	-	-	-	-	-	-	
	• BS 1560-Section 3.1:1989 (Class 150-2500)		600	-	-	-	-	-	-	-	
			900	-	-	-	-	-	-	-	
			1500	-	-	-	-	-	-	-	
	2500	-	-	-	-	-	-	-			
• ISO 7005-1:1992 (PN 20-420)		PN20	-	-	-	-	-	-	-	-	
		PN50	-	-	-	-	-	-	-	-	
		PN110	-	-	-	-	-	-	-	-	
		PN150	-	-	-	-	-	-	-	-	
		PN260	-	-	-	-	-	-	-	-	
		PN420	-	-	-	-	-	-	-	-	
• DIN 2501-Part 1 (PN 6-100)		PN6	3315	3160	-	-	3220	68	M45	48	
	• ISO 7005-1:1992 (PN 6-40)		PN10	3405	3210	-	-	3290	68	M56	62
			PN16	-	-	-	-	-	-	-	-
			PN25	-	-	-	-	-	-	-	-
			PN40	-	-	-	-	-	-	-	-
			PN64	-	-	-	-	-	-	-	-
			PN100	-	-	-	-	-	-	-	-
		• JIS B 2210:1984 (PN 5-63)		PN5	-	-	-	-	-	-	-
	PN10		-	-	-	-	-	-	-	-	
	PN16		-	-	-	-	-	-	-	-	
	PN20		-	-	-	-	-	-	-	-	
	PN30		-	-	-	-	-	-	-	-	
	PN40		-	-	-	-	-	-	-	-	
	PN63		-	-	-	-	-	-	-	-	

Notes:

There may be rounding or conversion deviations, but these should not exceed $\pm 1.5\text{mm}$. If the deviation exceeds this tolerance it will be marked with a letter and an explanation given in the footnote.

The information in this publication should not be relied upon as a substitute for detailed advice or as a basis for making a decision. Whilst every care has been taken in the compilation of these tables, no guarantee is given, nor liability accepted for their accuracy.

For precise data, particularly on flange thickness, refer to relevant Standard.

This flange information does not necessarily apply to valves and other pipeline equipment which are often designed and manufactured to accommodate multiple flange standards. Consult relevant Manufacturer's data for information on its products.