Carbon Steel Pipe, Fittings and Flanges





5 Carbon Steel Pipe, Fittings and Flanges





Specifications - Carbon Steel Pipe, Buttwelding Fittings & Flanges

	Linepipe
Specification	ASTM A53/A53M
Dimensions	ASME B36.10M
Product	Welded and Seamless Steel Pipe
Grades	A, B
Specification	ASTM A106/A106M
Dimensions	ASME B36.10M
Product	Seamless Carbon Steel Pipe for High Temperature Service
Grades	A, B, C
Specification	ASTM A335/A335M
Dimensions	ASME B36.10M
Product	Seamless Ferritic Alloy Steel Pipe for High Temperature Service
Grades	Refer Standard for grades
Specification	ASTM A333/A333M
Dimensions	ASME B36.10M
Product	Seamless & Welded Carbon and Alloy Steel Pipe for Low Temperature Services
Grades	Refer Standard for grades
Specification	API 5L/ISO 3183
Dimensions	ASME B36.10M, API 5L
Product	Seamless & Welded Carbon Steel for Line Pipe
Grades	A, B, X42, X52, X60, Refer API 5L specification for others

	Structural Steel
Specification	AS/NZS 1163
Dimensions	AS/NZS 1163
Product	Structural Steel Hollow Sections
Grade	C350L0, Refer standard for others

	Buttwelding Fittings
	ASTM A234M
Specification	Welded and Seamless Carbon and Alloy Steel Pipe Fittings for Moderate and High Temperature Service
	ASTM A420M
	Welded and Seamless Carbon and Alloy Steel Pipe Fittings for Low Temperature Service
Dimensions	ASME B16.9
Product	Elbows, Reducing Elbows, Returns, Tees, Crosses, Reducers, Stub Ends, Caps
Grade	ASTM A234M WPB, ASTM A420M WPL6. Refer standard for others

	Flanges
Specification	ASTM A105M Carbon Steel Forgings for Piping Applications
Dimensions	ASME B16.5
Product	Weld Neck, Slip-on, Blind Flanges. Others refer to the specification.
Face	Plain, Raised Face
Bore	Pipe Schedule
Class	150, 300, 400, 600, 900, 1500, 2500 (to 600mm only)
Grade	Carbon Steel
Specification	AS 2129
Specification	Flanges for Pipes, Valves and Fittings
Dimensions	AS 2129
Dimensions	"Table" flanges pressure – temperature ratings, materials and dimensions
Application	Slip-on, Blind "Table" Flanges
Face	Plain
Bore	To suit Pipe & Tube OD
Table	D, E, F and H

Standard Atlas Steels stocks of carbon steel pipe comply with:

Welded (ERW)

ASTM A53M grade B API 5L grade X42, PSL1 or PSL2 AS/NZS 1163 C350L0

Seamless

ASTM A106M grade B ASME SA106M grade B API 5L grade B and grade X42, PSL1 or PSL2

Carbon Steel Pipe - Dimensions

				<u> </u>		51 1	•	μ	_				131	<u> </u>	13	_	_		_			_			_						_	_	_	_					_
163			12.7																1	1	1	1	1	>															
NZ S1			9.5																		>	1	/	>															
to A S		ши	9.3																	>																			٦
tions	20T0	s in r	8.2																>																				\neg
w Sec	Grade C350L0	cknes	7.1															>																					٦
i Holl	Grac	Wall Thickness in mm	6.4															1	>	1	1	1	1	>															٦
al Stee		Wa	6.0													>																							
Structural Steel Hollow Sections to AS/NZS1163			5.5											>																									
ŧ			4.8											>		>		1	>	1																			
			xxs				7.47	7.82	60'6	9.70	10.15	11.07	14.02	15.24		17.12	19.05	21.95	22.23	25.40	25.40																		
			160				4.78	5.56	6.35	6.35	7.14	8.74	9.53	11.13		13.49	15.88	18.26	23.01	28.58	33.32	35.71	40.49	45.24	50.01	53.98	59.54												
			140																20.62	25.40	28.58	31.75	36.53	39.67	44.45	47.63	52.37												1
6.10M			120													11.13	12.70	14.27	18.26	21.44	25.40	27.79	30.96	34.93	38.10	41.28	46.02												1
ME B3			100																H	18.26	\vdash	Н	Н	\vdash	⊢	\vdash	38.89												1
e to AS	mm		XS	2.41	3.02	3.20	3.73	3.91	4.55	4.85	5.08	5.54	7.01	7.62	80.8	9.56	9.53	10.97	\vdash	\vdash	\vdash	12.70	\vdash	\vdash	12.70	\vdash	\dashv	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70
less Carbon Steel Pipe to ASME B36.10M	All dimensions are in mm	lule	80	2.41	3.02	3.20	3.73		4.55	4.85	90'9	5.54	7.01	7.62	80.8	99.8		\vdash	\vdash	\vdash	\vdash	19.05	\vdash		⊢	\vdash	30.96	_	1	1	_	_	1	,	1	1	_	_	_
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	All dim		Std 6	1.73	2.24	2.31	11	87	38	99	3.68	91	16	49	5.74	02	99	11				\Box			_	ш	_	23	23	53	53	83	53	23	53	53	53	53	23
Welded & Seam			40 S		2.24 2.	\vdash	\vdash	\vdash	3.38 3.		3.68 3.	3.91		5.49 5.	\vdash	\vdash	6.55 6.	Н	\vdash	9.27 9.	\vdash	Н	Н	14.27 9.	\vdash	\vdash	17.48 9.	6	9.	9.	\vdash	17.48 9.	\vdash	9.	9.	9.	6	6	6
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			n 5	.3	7.	<u>+.</u>	\vdash	\vdash	.4 1.65	.2 1.65	.3 1.65	.3 1.65		.9 2.11	_	⊢	1.3 2.77	\vdash	-	-	3.96	Н	\vdash	Н	\vdash	9 4.78	\dashv	0	-	2 6.35	3	4	4	9	16	27	81	88	6
	8		Sc mm		13.7		\vdash		33.4		/2 48.3	60.3		88.9	-	\vdash	141.3			\vdash	2 323.8	\vdash	Н	\vdash		2 559	\dashv	\dashv	\dashv		2 813	⊢	\vdash		0 1016	-	\dashv	\dashv	8 1219
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-			NO.	9	00	=	Ť.	2	25	32	9	20	99	8	8	10	12	15	20	25	3	38	40	45	26	99	8	8	2	75	8	88	8	8	10	10	1	1150	12

Note 1: For dimensional tolerances refer to ASTM A53M or A106M
This table shows common sizes. Other wall thicknesses and larger diameter pipes are available subject to enquiry. Refer to ASME B36.10M for possible sizes.

Carbon Steel Pipe - Weights

163		12.7																64.6	81.5	97.5	107.0	123.0	139.0															
/NZS1		9.5																		73.7	81.1	93.0	105.0						Γ		s		7					
Structural Steel Hollow Sections to AS/NZS1163 Grade C350 (kg/m)	Ē	9.3																	60.5				,30							(0	er pipe							
tions (ka/m	s in m	8.2																42.6												0.0246	diamet	e sizes						
w sec C350	cknes	7.1															28.2)-t) tx (larger	possibl						
Grade C350 (kg/m)	Wall Thickness in mm	6.4															25.6	33.6	42.1	50.1	55.1	63.1	71.1) = M	es and	OM for						
) Steel	Š	0.9													16.0										0-0				open	s/metre	ckness	B36.1						
כנחום		5.5											11.3																incade	logram	wall thi	ASME						
110		4.8											10.0		13.0		19.4	25.4	31.8										Poor	pipe ki	Other	Refer to						
		xxs				2.55	3.64	5.45	77.7	9.55	13.44	20.39	27.68		41.03	57.43	79.22	107.93	155.10	186.97									deligan	ar steel	sizes.	quiny. F						
	1	160				1.95	2.90	4.24	5.61	7.25	11.11	14.92 2	21.35 2		33.54 4	49.12 5	7 75.73	111.27 10	172.27 1	238.76 18	281.70	365.38	459.37	564.85	672.26	808.22			od one of	Note 1: All weignts are tred elical and approximate Note 2: Formula for circular steel pipe kilograms/metre M = (D-t) t x 0.02466	This table shows common sizes. Other wall thicknesses and larger diameter pipes	are available subject to enquiry. Refer to ASME B36.10M for possible sizes						
	4							4	4,7		-	-	2		က	4	9						77		100	200			. doiou	mweigin ormula 1	shows	ple sub						
9		140													01			t 100.93	1 155.10	7 208.14	5 253.56	4 333.19	6 408.26	9 508.15	2 600.63	3 720.15	- /-		1 V	ote 2: Fo	nis table	e availa						
20.101		120													28.32	40.28	54.21	90.44	133.01	186.97	224.65	286.64	363.56	441.49	527.02	640.03			_	ŽŽ	F	ē	J					
		100																75.92	114.71	159.91	194.96	245.56	309.62	381.53	451.42	547.71												
(kg/m)		XS	0.47	08.0	1.10	1.62	2.20	3.24	4.47	5.41	7.48	11.41	15.27	18.64	22.32	30.97	42.56	64.64	81.53	97.43	107.39	123.30	139.15	155.12	171.09	187.06	202.72	218.69	234.67	250.64	266.61	282.27	298.24	314.22	330.19	346.16	361.82	377.79
(E)	dule	80	0.47	0.80	1.10	1.62	2.20	3.24	4.47	5.41	7.48	11.41	15.27	18.64	22.32	30.97	42.56	64.64	95.98	132.08	158.10	203.53	254.55	311.17	373.83	442.08												
(kg/m)	Schedule	09																53.09	81.53	108.96	126.71	160.12	205.74	247.83	294.25	355.26												
		Std	0.37	0.63	0.84	1.27	1.69	2.50	3.39	4.05	5.44	8.63	11.29	13.57	16.08	21.77	28.26	42.55	60.29	73.88	81.33	93.27	105.16	117.15	129.13	141.12	152.87	164.85	176.84	188.82	200.82	212.56	224.54	236.53	248.52	260.50	272.25	284.24
		40	0.37	0.63	0.84	1.27	1.69	2.50	3.39	4.05	5.44	8.63	11.29	13.57	16.08	21.77	28.26	42.55	60.29	79.73	94.55	123.30	155.80	183.42	_	255.41	_	-	_	342.91	364.90	420.42	Ž.		i v		i.v	
Meided & Sealines		30	0.32 (0.54 (0.70	1.12	1.44	2.18	2.87	3.53	4.48	8.04	9.92	11.41	12.91	2	2	36.82 4	51.01 6	65.20 7	81.33 9	93.27 13	122.38 16	155.12 18	171.09	209.64 28		272.23	292.18	312.15 34	332.12 30	351.70 45						
\$			0	0.	.0	-	-	2	2	(1)	4	80	6	-	12						-		_		_	-	7.2	-										
		20																33.32	41.76	49.73	67.90	77.83		117.15	129.13	141.12		218.69	3 234.67	250.64	266.61	3 282.27						-
		10	0.28	0.49	0.63	1.00	1.28	2.09	2.69	3.11	3.93	5.26	6.46	7.41	8.37	11.56	13.83	19.97	27.78	36.00	54.69	62.64	70.57	78.55	86.54	94.53	127.36	137.32	147.28	157.24	167.20	176.96						
		ıΩ				0.80	1.03	1.29	1.65	1.90	2.39	3.69	4.52	5.18	5.84	9.46	11.31	14.78	22.51	31.24	34.34	41.56	46.79	59.32	65.33	82.58			118.34									
0		mm	10.3	13.7	17.1	21.3	26.7	33.4	42.2	48.3	60.3	73.0	6.88	101.6	114.3	141.3	168.3	219.1	273.0	323.8	355.6	406.4	457	909	559	610	099	711	762	813	864	914	965	1016	1067	1118	1168	1219
inal	92	NPS	1/8	7,7	3/8	74	3%	-	1,14	1,12	2	21/2	m	31/2	4	5	9	8	10	12	14	16	18	20	22	24	56	28	30	32	8	36	38	40	42	4	46	48
Nomina	size	NO	9	8	10	15	20	25	32	40	90	65	80	06	100	125	150	200	250	300	350	400	450	909	929	009	099	200	750	800	850	006	950	1000	1050	1100	1150	1200
				_														_	_			_	_	_		_	_	_		_		_	_			_	_	_

Carbon Steel Buttwelding Fittings – Dimensions

							Buth	welding F	ittings to	velding Fittings to a SME B16.9	16.9					
V .					Elbows			Returns	irns					Stub	Stub ends	
(Non	Nominal	00	7	Long	**	1		-		Caps	Reducers Note 1		1000	Radius	Diam
	į	:		deg	deg	deg	2	Found	5	House	s .		Foul	HOUS	Fillet	Lap
クジ ランベー	NO	NPS	٥	A	8	A	0	×	0	×	ш	I	ш	ш	œ	9
	15	×	213	38	16		22	48			25		92	51	3	35
	20	%	26.7	38	13		92	51		0000	25	38	92	51	က	43
}	25	-	33.4	38	22	25	92	99	51	41	38	51	102	51	e	51
ELBOW	32	1%	422	48	25	32	95	02	64	52	38	51	102	51	2	64
	40	11%	48.3	25	29	38	114	83	22	62	38	64	102	51	9	73
	20	2	603	94	35	51	152	106	102	81	38	92	152	64	00	92
	65	2%	73.0	92	44	64	190	132	127	100	38	88	152	64	00	106
	80	m	88.9	_	51	92	229	159	152	121	51	88	152	64	10	127
	90	3%	101.6		25	88	267	184	178	140	64	102	152	92	11	140
	100	**	114.3	152	64	102	305	210	203	159	64	102	152	92	11	157
	125	2	141.3	ш	79	127	381	262	254	197	22	127	203	92	13	185
/ /	150	9	168.3	229	35	152	457	313	305	237	68	140	203	89	13	218
// / / /	200	00	219.1	Ш	127	203	610	414	406	313	102	152	203	102	13	270
	250	10	273.0	\rightarrow	159	254	762	518	508	391	127	178	254	127	13	324
	300	12	323.8	_	190	305	914	619	610	467	152	203	254	152	13	381
	350	14	355.6	533	222	356	1067	711	711	533	165	330	305	152	13	413
- V	400	10	406.4	-	254	406	1219	813	813	610	178	356	305	152	13	470
0	420	19	457	_	286	457	1372	914	914	989	203	381	305	152	13	533
RETURN	200	20	208	-	318	508	1524	1016	1016	762	229	208	305	152	13	584
	220	22	559	838	343	559	1676	1118	1118	838	254	208	305	152	13	641
	000	24	010	914	381	610	1829	1219	1219	914	267	208	302	152	13	692
	000	97	000	188	402						707	010				
	00/	28	111	100/	438						201	610				
	750	30	762	1143	470						267	610				
(800	32	813	1219	205						267	610				
	850	34	864	1295	533						267	610				
1	900	36	914	1372	595						267	610				
	950	38	965	1448	900						305	610				
)	1000	40	1016	1524	632						305	610				
	1050	42	1067	1600	099						305	610				
	1100	44	1118	1676	969						343	610				
ষ্ট	1150	46	1168	1753	727						343	711				
	1200	48	1219	1829	759						343	711				
	Note 1	Note 1: Reduc	er dime	H uoisu	is base	er dimension "H" is based on large end nominal size	end nom	inal size								
												e- Note s	ouare			
	L	(_	/					corner	corner			
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	ļ	1	1			ļ	=	+						1		
												Enlarged Section	non	L		F
				RE	REDUCER							des		STUB END	GNB	

Carbon Steel Buttwelding Fittings - Dimensions 800 838 711 737 762 813 CROSS 711 724 749 787 648 686 711 711 622 648 673 584 584 610 635 572 597 622 686 737 432 457 483 508 533 584 610 Centre-to-End Outlet M 444 470 495 521 536 536 537 622 648 406 457 457 483 508 533 406 406 457 483 508 371 397 422 448 283 308 333 333 359 384 229 248 273 298 324 168 194 219 238 264 156 184 102 114 127 152 - 2 -38 65 88 89 89 89 89 89 ن 76 76 83 83 89 05 TEE 67 73 86 86 57 57 58 48 57 57 57 38 48 57 25 29 29 25 57 57 57 57 13.7 17.3 17.3 17.3 17.3 17.3 10.1.6

Carbon Steel Buttwelding Fittings – Weight

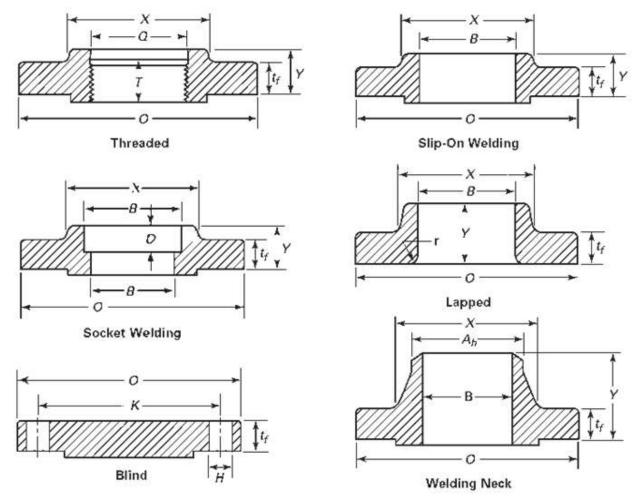
				But	twelding	Fittings	(kg per	unit)				
					Star	ndard We	eight					
Namin	-1 -1	0.0		Elbows		Retu	urns			Stub	Ends	
Nomin	al size	OD	Lo	ng	Short		Obt	Caps	Reducers	1400	A ON 45	Tees
DN	NPS	mm	90 deg	45 deg	90 deg	Long	Short			MSS	ASME	
15	1/2	21.3	0.08	0.04		0.16		0.04		0.12	0.14	0.09
20	3/4	26.7	0.11	0.06		0.21		0.05	0.06	0.15	0.18	0.13
25	1	33.4	0.16	0.08	0.11	0.31	0.21	0.11	0.12	0.19	0.30	0.25
32	11⁄4	42.2	0.26	0.13	0.18	0.52	0.35	0.14	0.16	0.26	0.41	0.43
40	1½	48.3	0.37	0.19	0.25	0.74	0.49	0.17	0.25	0.38	0.55	0.61
50	2	60.3	0.66	0.33	0.44	1.30	0.87	0.24	0.38	0.54	0.99	0.88
65	2½	73.0	1.29	0.69	0.91	2.73	1.82	0.42	0.73	0.8	1.56	1.74
80	3	88.9	2.04	1.02	1.36	4.07	2.71	0.67	0.94	1.13	2.13	2.41
90	3½	101.6	2.94	1.47	1.97	5.65	3.77	0.92	1.19	1.47	2.58	3.26
100	4	114.3	3.84	1.92	2.56	7.67	5.11	1.17	1.45	1.81	3.04	4.12
125	5	141.3	6.48	3.24	4.32	13.0	8.64	1.9	2.50	2.53	5.3	6.54
150	6	168.3	9.94	4.97	6.63	19.9	13.3	2.83	3.60	3.73	6.89	9.58
200	8	219.1	20.1	10.1	13.4	40.3	26.8	5.11	5.70	5.89	10.4	17.9
250	10	273.0	35.4	17.7	23.6	70.8	47.2	8.92	9.60	10.4	18.1	30.4
300	12	323.8	52.0	26.0	34.6	112	71.9	13.1	13.6	14.9	22.2	43.6
350	14	355.6	67.9	34.0	45.3			15.9	25.4	15.5	28.3	53.5
400	16	406.4	89.0	44.5	59.1			20.0	31.0	18.0	32.7	66.1
450	18	457	113	56.5	75.3			25.5	37.8	21.0	37.5	83.9
500	20	508	140	70.0	93.1			31.8	55.4	23.3	41.7	104
550	22	559	169	84.5	113			38.8	62.4	25.8	46.3	126
600	24	610	202	101	135			45.1	68.4	28.4	50.5	139
650	26	660	237	119	158			50.5	89.4			176
700	28	711	276	138	184			56.2	96.6			198
750	30	762	316	158	211			62.1	104			228
800	32	813	361	180	241			68.4	111			259
850	34	864	406	204	272			75.4	116			295
900	36	914	457	228	304			81.9	125			331
950	38	965	510	255	340			94.7	133			370
1000	40	1016	565	282	377			102	140			411
1050	42	1067	622	311	416			110	147			422
1100	44	1118	684	342	456			126	155			475
1150	46	1168	748	374	499			134	189			521
1200	48	1219	814	407	543	-		143	197		-	569

				Butt	welding	Fittings	(kg per	unit)				
						XS						
Nomin	al aire	OD		Elbows		Retu	ırns			Stub	Ends	
Nomin	iai size	OD	Lo	ng	Short	Long	Short	Caps	Reducers	MSS	ASME	Tees
DN	NPS	mm	90 deg	45 deg	90 deg	Long	SHOIL			IVIOO	ASIVIE	
15	1/2	21.3	0.10	0.05		0.20		0.05		0.13	0.12	0.11
20	3/4	26.7	0.14	0.70		0.21		0.07	0.08	0.17	0.2	0.17
25	1	33.4	0.20	0.10	0.14	0.41	0.26	0.15	0.15	0.24	0.38	0.32
32	11⁄4	42.2	0.35	0.18	0.23	0.70	0.46	0.20	0.21	0.35	0.55	0.56
40	1½	48.3	0.50	0.25	0.33	1.02	0.66	0.24	0.33	0.46	0.68	0.81
50	2	60.3	0.90	0.45	0.6	1.88	1.19	0.33	0.51	0.74	1.36	1.20
65	2½	73.0	1.79	0.90	1.19	3.56	2.38	0.57	0.95	1.06	2.08	2.28
80	3	88.9	2.74	1.37	1.83	5.74	3.65	0.92	1.25	1.51	2.84	3.25
90	3½	101.6	4.05	2.02	2.07	12.7	5.21	1.30	1.64	2.01	3.51	4.51
100	4	114.3	5.36	2.68	3.58	15.7	7.15	1.68	2.02	2.52	4.23	5.77
125	5	141.3	9.13	4.57	6.09	19.3	12.2	2.73	3.52	3.60	7.52	9.2
150	6	168.3	15.0	7.50	10.0	31.9	20.0	4.38	5.38	5.57	10.4	14.5
200	8	219.1	30.5	15.3	20.3	64.3	40.7	7.91	8.63	10.1	15.9	27.1
250	10	273.0	47.7	23.9	31.8	99.6	74.9	12.2	12.9	13.9	24.3	41.0
300	12	323.8	68.7	34.4	45.8	144.9	94.9	17.4	18.0	19.9	29.8	57.7
350	14	355.6	89.9	15.0	60.0			21.2	33.6	21	38	70.9
400	16	406.4	118	59.0	78.3			26.7	41.1	24	44	87.7
450	18	457	150	75.5	100			34.1	50.1	28	50	111
500	20	508	186	93	124			42.5	74.9	31	56	138
550	22	559	225	113	150			51.7	82.9	33	61	167
600	24	610	268	134	179			60.1	91	37	67	186
650	26	660	315	158	210			67.3	119			234
700	28	711	367	184	245			74.9	129			264
750	30	762	421	211	281			82.8	138			304
800	32	813	480	240	320			91.2	148			347
850	34	864	543	272	362			100	158			393
900	36	914	608	304	405			109	167			441
950	38	965	679	339	453			126	177			493
1000	40	1016	753	376	502	-		137	187			547
1050	42	1067	828	414	554			147	196			562
1100	44	1118	912	456	608			167	206			633
1150	46	1168	997	498	665			179	252			695
1200	48	1219	1085	542	724			191	263			759

			Buttwe	lding Fittin	gs (kg per u	nit)		
				Sch 1	60			
Nomin	al cizo	OD		Elbows				
Nomin	ai size	ОВ	Lo	ng	Short	Caps	Reducers	Tees
DN	NPS	mm	90 deg	45 deg	90 deg			
15	1/2	21.3	0.12			0.06		0.12
20	3/4	26.7	0.13			0.09		0.21
25	1	33.4	0.25	0.13	0.17	0.20	0.19	0.41
32	11⁄4	42.2	0.42	0.21	0.28	0.25	0.25	0.69
40	1½	48.3	0.65	0.33	0.43	0.35	0.43	1.07
50	2	60.3	1.33	0.67	0.89	0.54	0.75	1.78
65	2½	73.0	2.33	1.17	1.49	0.77	1.20	2.86
80	3	88.9	3.83	1.92	2.55	1.40	1.71	4.55
90	3½	101.6	5.92	2.96	3.95	2.10	2.35	6.52
100	4	114.3	8.02	4.01	5.35	2.76	3.00	8.50
125	5	141.3	14.7	7.35	9.79	4.85	5.59	14.8
150	6	168.3	24.2	12.1	16.2	7.81	8.63	23.3
200	8	219.1	53.2	26.6	35.5	15.2	15.0	47.2
250	10	273.0	103	51.5	68.6	28.9	27.5	88.0
300	12	323.8	171	85.5	114	47.7	44.6	143
350	14	355.6	236	118	158	61.2	88.5	186
400	16	406.4	350	175	234	92.8	121	260
450	18	457	495	247	330	131	165	356
500	20	508	676	338	451	179	233	502
550	22	559	886	443	591	219		657
600	24	610	1160	580	773	307		800
650	26	660						
700	28	711						
750	30	762						
800	32	813						
850	34	864						
900	36	914						
950	38	965						
1000	40	1016						
1050	42	1067						
1100	44	1118						
1150	46	1168						
1200	48	1219						

These diagrams relate to the tables of flange specified dimensions on the following pages.

The Notes shown on this page also relate to the tables on the following pages.



Note 1: To be specified by purchase

Note 2: Flange weights are approximate

Note 3: Welding neck flange bore sizes listed are for sch 40S / Standard Wall pipe

						<u> </u>	Class 1	50 Flange	s to ASME I	B16.5	<u> </u>						
Nameiro	al Size							Dimensions							Flan	10/s; what //	lem\
Nomin	ai Size					Length 1	Γhru Hub	В	ore			3olt Drilli	ng		Fian	ge Weight (I	Kg)
DN	NPS	Flange OD (mm) O	Thick- ness min (mm) t _f	Hub Diam. (mm) X	Hub Diam. Welding Neck (mm) A _h	Slip-on/ Socket Welding (mm) Y	Welding Neck (mm) Y	Slip-on/ Socket Welding min (mm) B	Welding Neck / Socket Welding (mm) B	Circle Diam. (mm) K	Hole Diam. (mm) H	Bolts (No.)	RF Stud Bolt Length (mm)	RF Machine Bolt Length (mm)	Slip-on	Welding Neck	Blind
15	1/2	90	9.6	30	21.3	14	46	22.2	15.8	60.3	15.9	4	55	50	0.4	0.5	0.4
20	3/4	100	11.2	38	26.7	14	51	27.7	20.9	69.9	15.9	4	65	50	0.6	0.7	0.6
25	1	110	12.7	49	33.4	16	54	34.5	26.6	79.4	15.9	4	65	55	0.8	1.0	0.9
32	1 1/4	115	14.3	59	42.2	19	56	43.2	35.1	88.9	15.9	4	70	55	1.0	1.3	1.2
40	1 ½	125	15.9	65	48.3	21	60	49.5	40.9	98.4	15.9	4	70	65	1.3	1.7	1.5
50	2	150	17.5	78	60.3	24	62	61.9	52.5	120.7	19.1	4	85	70	2.1	2.6	2.4
65	2 ½	180	20.7	90	73.0	27	68	76.6	62.7	139.7	19.1	4	90	75	3.3	4.1	3.9
80	3	190	22.3	108	88.9	29	68	90.7	77.9	152.4	19.1	4	90	75	3.9	4.9	4.9
90	3 ½	215	22.3	122	101.6	30	70	103.4	90.1	177.8	19.1	8	90	75	4.8	6.1	6.2
100	4	230	22.3	135	114.3	32	75	116.1	102.3	190.5	19.1	8	90	75	5.3	6.8	7.0
125	5	255	22.3	164	141.3	35	87	143.8	128.2	215.9	22.2	8	95	85	6.1	8.6	8.5
100	4	230	22.3	135	114.3	32	75	116.1	102.3	190.5	19.1	8	90	75	5.3	6.8	7.0
125	5	255	22.3	164	141.3	35	87	143.8	128.2	215.9	22.2	8	95	85	6.1	8.6	8.6
150	6	280	23.9	192	168.3	38	87	170.7	154.1	241.3	22.2	8	100	85	7.5	11	11
200	8	345	27.0	246	219.1	43	100	221.5	202.7	298.5	22.2	8	110	90	12	18	20
250	10	405	28.6	305	273.0	48	100	276.2	254.6	362.0	25.4	12	115	100	17	24	29
300	12	485	30.2	365	323.8	54	113	327.0	304.8	431.8	25.4	12	120	100	26	37	43
350	14	535	33.4	400	355.6	56	125	359.2	Note (1)	476.3	28.6	12	135	115	35	48	58
400	16	595	35.0	457	406.4	62	125	410.5	Note (1)	539.8	28.6	16	135	115	45	61	76
450	18	635	38.1	505	457.0	67	138	461.8	Note (1)	577.9	31.8	16	145	125	49	68	94
500	20	700	41.3	559	508.0	71	143	513.1	Note (1)	635.0	31.8	20	160	140	62	85	122
600	24	815	46.1	663	610.0	81	151	616.0	Note (1)	749.3	34.9	20	170	150	87	115	186

							Class 30	0 Flanges	to ASME	B16.5							
Nomin	al Siza						D	imensions							Flo	nge Weight	(ka)
NOMIN	ai Size					Length 1	Thru Hub	В	ore			Bolt Drill	ing		Fla	rige weignit	(NY)
DN	NPS	Flange OD (mm) O	Thick- ness min (mm) t _e	Hub Diam. (mm) X	Hub Diam. Welding Neck (mm) A _h	Slip-on/ Socket Welding (mm) Y	Welding Neck (mm) Y	Slip-on/ Socket Welding min (mm) B	Welding Neck / Socket Welding (mm) B	Circle Diam. (mm) K	Hole Diam. (mm) H	Bolts (No.)	RF Stud Bolt Length (mm)	RF Machine Bolt Length (mm)	Slip-on	Welding Neck	Blind
15	1/2	95	12.7	38	21.3	21	51	22.2	15.8	66.7	15.9	4	65	55	0.6	0.8	0.6
20	3/4	115	14.3	48	26.7	24	56	27.7	20.9	82.6	19.1	4	75	65	1.2	1.3	1.2
25	1	125	15.9	54	33.4	25	60	34.5	26.6	88.9	19.1	4	75	65	1.4	1.6	1.4
32	1 1/4	135	17.5	64	42.2	25	64	43.2	35.1	98.4	19.1	4	85	70	1.7	2.1	1.8
40	1 ½	155	19.1	70	48.3	29	67	49.5	40.9	114.3	22.2	4	90	75	2.6	3.1	2.7
50	2	165	20.7	84	60.3	32	68	61.9	52.5	127.0	19.1	8	90	75	2.9	3.4	3.1
65	2 ½	190	23.9	100	73.0	37	75	74.6	62.7	149.2	22.2	8	100	85	4.5	5.3	4.8
80	3	210	27.0	117	88.9	41	78	90.7	77.9	168.3	22.2	8	110	90	6.2	7.3	6.8
90	3 ½	230	28.6	133	101.6	43	79	103.4	90.1	184.2	22.2	8	110	95		8.2	9.5
100	4	255	30.2	146	114.3	46	84	116.1	102.3	200.0	22.2	8	115	95		11	12
125	5	280	33.4	178	141.3	49	97	143.8	128.2	235.0	22.2	8	120	110		15	16
150	6	320	35.0	206	168.3	51	97	170.7	154.1	269.9	22.2	12	120	110		20	21
200	8	380	39.7	260	219.1	60	110	221.5	202.7	330.2	25.4	12	140	120		30	35
250	10	445	46.1	321	273.0	65	116	276.2	254.6	387.4	28.6	16	160	140		44	55
300	12	520	49.3	375	323.8	71	129	327.0	304.8	450.8	31.8	16	170	145		64	79
350	14	585	52.4	425	355.6	75	141	359.2	Note (1)	514.4	31.8	20	180	160		88	107
400	16	650	55.6	483	406.4	81	144	410.5	Note (1)	571.5	34.9	20	190	165		113	139
450	18	710	58.8	533	457.0	87	157	461.8	Note (1)	628.6	34.9	24	195	170		138	177
500	20	775	62.0	587	508.0	94	160	513.1	Note (1)	685.8	34.9	24	205	185		167	223
600	24	915	68.3	702	610.0	105	167	616.0	Note (1)	812.8	41.3	24	230	205		235	342

These flanges are available in a very wide range of sizes, ratings and types in 304/304L and 316/316L. Other grades such as 2205 are available subject to enquiry.

						Cla	ass 600 Fla	anges to A	SME B16.5							
Manaia	al Size						Dimens	sions						F1-		(1)
Nomin	iai Size					Length 1	Γhru Hub	В	ore		Bolt	Drilling		FIA	nge Weight	(Kg)
DN	NPS	Flange OD (mm) O	Thick- ness min (mm) t _f	Hub Diam. (mm) X	Hub Diam. Welding Neck (mm) A _h	Slip-on/ Socket Welding (mm) Y	Welding Neck (mm) Y	Slip-on/ Socket Welding min (mm) B	Welding Neck / Socket Welding (mm) B	Circle Diam. (mm) K	Hole Diam. (mm) H	Bolts (No.)	RF Stud Bolt Length (mm)	Slip-on	Welding Neck	Blind
15	1/2	95	14.3	38	21.3	22	52	22.2	Note (1)	66.7	15.9	4	75	0.9	0.9	0.9
20	3/4	115	15.9	48	26.7	25	57	27.7	Note (1)	82.6	19.1	4	90	1.4	1.6	1.4
25	1	125	17.5	54	33.4	27	62	34.5	Note (1)	88.9	19.1	4	90	1.8	1.9	1.8
32	1 1/4	135	20.7	64	42.2	29	67	43.2	Note (1)	98.4	19.1	4	95	2.6	2.5	2.4
40	1 ½	155	22.3	70	48.3	32	70	49.5	Note (1)	114.3	22.2	4	110	3.2	3.6	3.4
50	2	165	25.4	84	60.3	37	73	61.9	Note (1)	127.0	19.1	8	110	3.9	4.5	4.4
65	2 ½	190	28.6	100	73.0	41	79	74.6	Note (1)	149.2	22.2	8	120	5.9	6.4	6.8
80	3	210	31.8	117	88.9	46	83	90.7	Note (1)	168.3	22.2	8	125	7.4	8.1	8.9
90	3 ½	230	35.0	133	101.6	49	86	103.4	Note (1)	184.	25.4	8	140		12	13
100	4	275	38.1	152	114.3	54	102	116.1	Note (1)	215.9	25.4	8	145		17	19
125	5	330	44.5	189	141.3	60	114	143.8	Note (1)	266.7	28.6	8	165		31	31
150	6	355	47.7	222	168.3	67	117	170.7	Note (1)	292.1	28.6	12	170		37	38
200	8	420	55.6	273	219.1	76	133	221.5	Note (1)	349.2	31.8	12	190		51	62
250	10	510	63.5	343	273.0	86	152	276.2	Note (1)	431.8	34.9	16	215		86	102
300	12	560	66.7	400	323.8	92	156	327.0	Note (1)	489.0	34.9	20	220		103	132
350	14	605	69.9	432	355.6	94	165	359.2	Note (1)	527.0	38.1	20	235		122	158
400	16	685	76.2	495	406.4	106	178	410.5	Note (1)	603.2	41.3	20	255		177	225
450	18	745	82.6	546	457.0	117	184	461.8	Note (1)	654.0	44.5	20	275		216	285
500	20	815	88.9	610	508.0	127	190	513.1	Note (1)	723.9	44.5	24	285		268	365
600	24	940	101.6	718	610.0	140	203	616.0	Note (1)	838.2	50.8	24	330		372	533

						Clas	s 900 Flar	nges to AS	ME B16.5							
Nomin	al Ciza						Dimensi	ions						Elor	ge Weight ('ka)
NOTTILL	ai Size					Length 1	Γhru Hub	В	ore		Bolt [Orilling		Fiai	ige weight (Ny)
DN	NPS	Flange OD (mm) O	Thick- ness min (mm) t _f	Hub Diam. (mm) X	Hub Diam. Welding Neck (mm) A _h	Slip-on/ Socket Welding (mm) Y	Welding Neck (mm) Y	Slip-on/ Socket Welding min (mm) B	Welding Neck / Socket Welding (mm) B	Circle Diam. (mm) K	Hole Diam. (mm) H	Bolts (No.)	RF Stud Bolt Length (mm)	Slip-on	Welding Neck	Blind
15	1/2	120	22.3	38	21.3	32	60	22.2	Note (1)	82.6	22.2	4	110	1.8	2.1	1.9
20	3/4	130	25.4	44	26.7	35	70	27.7	Note (1)	88.9	22.2	4	115	2.3	2.7	2.7
25	1	150	28.6	52	33.4	41	73	34.5	Note (1)	101.6	25.4	4	125	3.4	3.9	4.1
32	1 1/4	160	28.6	64	42.2	41	73	43.2	Note (1)	111.1	25.4	4	125	4.1	4.5	4.3
40	1 ½	180	31.8	70	48.3	44	83	49.5	Note (1)	123.8	28.6	4	140	5.5	5.9	5.9
50	2	215	38.1	105	60.3	57	102	61.9	Note (1)	165.1	25.4	8	145	11	11	11
65	2 ½	245	41.3	124	73.0	64	105	74.6	Note (1)	190.5	28.6	8	160	16	16	16
80	3	240	38.1	127	88.9	54	102	90.7	Note (1)	190.5	25.4	8	145	12	15	13
100	4	290	44.5	159	114.3	70	114	116.1	Note (1)	235.0	31.8	8	170	23	23	25
125	5	350	50.8	190	141.3	79	127	143.8	Note (1)	279.4	34.9	8	190	38	39	39
150	6	380	55.6	235	168.3	86	140	170.7	Note (1)	317.5	31.8	12	190	48	50	52
200	8	470	63.5	298	219.1	102	162	221.5	Note (1)	393.7	38.1	12	220	75	79	59
250	10	545	39.9	368	273.0	108	184	276.2	Note (1)	469.9	38.1	16	235	111	118	132
300	12	610	79.4	419	323.8	117	200	327.0	Note (1)	533.4	38.1	20	255	146	157	187
350	14	640	85.8	451	355.6	130	213	359.2	Note (1)	558.8	41.3	20	275	172	182	224
400	16	705	88.9	508	406.4	133	216	410.5	Note (1)	616.0	44.5	20	285	193	225	272
450	18	785	101.6	565	457.0	152	229	461.8	Note (1)	685.8	50.8	20	325	272	309	386
500	20	855	108.0	622	508.0	159	248	513.1	Note (1)	749.3	54.0	20	350	331	377	488
600	24	1040	139.7	749	610.0	203	292	616.0	Note (1)	901.7	66.7	20	440	632	685	905

These flanges are available in a very wide range of sizes, ratings and types in 304/304L and 316/316L. Other grades such as 2205 are available subject to enquiry.

						Clas	s 1500 Fla	anges to A	ASME B16.	5						
Nomin	al Size						Dimens	ions						Elo	nge Weight	(lea)
NOTTIII	iai Size				Hub	Length ¹	Thru Hub	В	ore		Bolt [Orilling		Гіа	nge weignit	(N9)
DN	NPS	Flange OD (mm) O	Thick- ness min (mm) t _f	Hub Diam. (mm) X	Diam. Welding Neck (mm)	Slip-on/ Socket Welding (mm) Y	Welding Neck (mm) Y	Slip-on/ Socket Welding min (mm) B	Welding Neck / Socket Welding (mm) B	Circle Diam. (mm) K	Hole Diam. (mm) H	Bolts (No.)	RF Stud Bolt Length (mm)	Slip-on	Welding Neck	Blind
15	1/2	120	22.3	38	21.3	32	60	22.2	Note (1)	82.6	22.2	4	110	1.8	2.1	1.9
20	3/4	130	25.4	44	26.7	35	70	27.7	Note (1)	88.9	22.2	4	115	2.8	2.7	2.7
25	1	150	28.6	52	33.4	41	73	34.5	Note (1)	101.6	25.4	4	125	3.6	3.9	4.1
32	1 1/4	160	28.6	64	42.2	41	73	43.2	Note (1)	111.1	25.4	4	125	5.0	4.5	4.3
40	1 ½	180	31.8	70	48.3	44	83	49.5	Note (1)	123.8	28.6	4	140	6.8	5.9	5.9
50	2	215	38.1	105	60.3	57	102	61.9	Note (1)	165.1	25.4	8	145	11	11	11
65	2 ½	245	41.3	124	73.0	64	105	74.6	Note (1)	190.5	28.6	8	160	16	16	16
80	3	265	47.7	133	88.9		117		Note (1)	203.2	31.8	8	180		22	22
100	4	310	54.0	162	114.3		124		Note (1)	241.3	34.9	8	195		31	33
125	5	375	73.1	197	141.3		156		Note (1)	292.1	41.3	8	250		59	60
150	6	395	82.6	229	168.3		171		Note (1)	317.5	38.1	12	260		75	75
200	8	485	92.1	292	219.1		213		Note (1)	393.7	44.5	12	290		124	137
250	10	585	108.0	368	273.0		254		Note (1)	482.6	50.8	12	335		206	230
300	12	675	123.9	451	323.8		283		Note (1)	571.5	54.0	16	375		306	316
350	14	750	133.4	495	355.6		298		Note (1)	635.0	60.3	16	405		416	421
400	16	825	146.1	552	406.4		311		Note (1)	704.8	66.7	16	445		568	559
450	18	915	162.0	597	457.0		327		Note (1)	774.7	73.0	16	495		736	761
500	20	985	177.8	641	508.0		356		Note (1)	831.8	79.4	16	540		929	967
600	24	1170	203.2	762	610.0		406		Note (1)	990.6	92.1	16	615		1504	1568

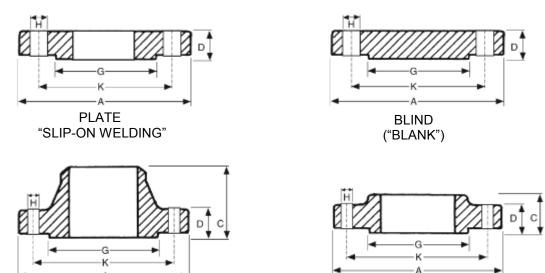
	Class 2500 Flanges to ASME B16.5															
Nomin	al Size						Dimens	ions						Fla	nge Weight	(ka)
14011111	IAI 0126				Hub	Length Thru Hub Bore				Bolt [Orilling		Tia	nge vveigni.	(Ng)	
DN	NPS	Flange OD (mm) O	Thick- ness min (mm) t _f	Hub Diam. (mm) X	Diam. Welding Neck (mm) A _h	Slip-on/ Socket Welding (mm) Y	Welding Neck (mm) Y	Slip-on/ Socket Welding min (mm) B	Welding Neck / Socket Welding (mm) B	Circle Diam. (mm) K	Hole Diam. (mm) H	Bolts (No.)	RF Stud Bolt Length (mm)	Slip-on	Welding Neck	Blind
15	1/2	135	30.2	43	21.3	40	73	22.9	Note (1)	88.9	22.2	4	120	3.0	3.2	3.2
20	3/4	140	31.8	51	26.7	43	79	28.2	Note (1)	95.2	22.2	4	125	3.6	4.1	4.5
25	1	160	35.0	57	33.4	48	89	34.9	Note (1)	108.0	25.4	4	140	5.0	5.5	5.4
32	1 1/4	185	38.1	73	42.2	52	95	43.7	Note (1)	130.2	28.6	4	150	7.3	9.1	8.2
40	1 1/2	205	44.5	79	48.3	60	111	50.0	Note (1)	146.0	31.8	4	170	10	11	10
50	2	235	50.9	95	60.3	70	127	62.5	Note (1)	171.4	28.6	8	180	17	19	18
65	2 ½	265	57.2	114	73.0	79	143	75.4	Note (1)	196.8	31.8	8	195	24	24	25
80	3	305	66.7	133	88.9	92	168	91.4	Note (1)	228.6	34.9	8	220	36	43	39
100	4	355	76.2	165	114.3	108	190	116.8	Note (1)	273.0	41.3	8	255	54	64	60
125	5	420	92.1	203	141.3	130	229	144.4	Note (1)	323.8	47.6	8	300	93	111	101
150	6	485	108.0	235	168.3	152	273	171.4	Note (1)	368.3	54.0	8	345	143	176	157
200	8	550	127.0	305	219.1	178	318	222.2	Note (1)	438.2	54.0	12	380	213	261	241
250	10	675	165.1	375	273.0	229	419	277.4	Note (1)	539.8	66.7	12	490	409	484	465
300	12	760	184.2	441	323.8	254	464	328.2	Note (1)	619.1	73.0	12	540	573	692	664

These flanges are available in a very wide range of sizes, ratings and types in 304/304L and 316/316L. Other grades such as 2205 are available subject to enquiry.

Carbon Steel Table Flanges - Dimensions & Weights

These diagrams relate to the tables of flange specified dimensions on the following pages. Refer note below regarding terminology of Table flange types.

Types of Table Flanges specified in AS 2129.



Notes to these diagrams and the following tables of dimensions.

- Diagrams above show the optional Raised Face.
- Standard Atlas Steels Table Flange stock is Flat Faced.
- All weights are approximate

WELDING NECK (WN)

- A diametrical clearance of 4mm maximum applies to pipe or tube OD for plate flanges
- The flange thickness "D" dimension includes the raised face height, if a non-standard raised sealing face is present.

BOSS

- Welding Neck bore is derived from the pipe schedule
- Atlas standard stock table flanges are plate and blind type. Note that AS2129 plate flanges
 are usually referred to by end users as "slip-on welding" flanges and this terminology is also
 used in Atlas product descriptions.
- PN16 "DIN" flanges to EN1092-1 and AS4087 waterworks flanges are also available subject to enquiry.

Carbon Steel Table Flanges – Dimensions & Weights

,	·			Table D Flang	es to AS 2129	(20.		
Nominal Size				Dimensions (mn	n)			Weight (kg)	
		1			Drilling				
DN	OD A	Thickness D	Raised Face Diam. G	Bolt Circle Diam. K	Bolt Hole Diam. H	Number of Bolts	Bolt Size & Thread	sow	Blind
15	95	*5	47	67	14	4	M12	0.6	0.6
20	100	*5	53	73	14	4	M12	0.7	0.7
25	115	*5	65	83	14	4	M12	0.9	1.0
32	120	*6	67	87	14	4	M12	0.9	1.1
40	135	*6	78	98	14	4	M12	1.2	1.4
50	150	*8	90	114	18	4	M16	1.4	1.7
65	165	*8	103	127	18	4	M16	1.6	2.1
80	185	*10	122	146	18	4	M16	2.0	2.7
90	205	*10	141	165	18	4	M16	2.2	3.2
100	215	*10	154	178	18	4	M16	2.5	3.6
125	255	13	186	210	18	8	M16	3.3	4.9
150	280	13	211	135	18	8	M16	4.0	6.1
200	335	13	268	292	18	8	M16	5.0	8.8
250	405	16	328	256	22	8	M20	8.7	15.8
300	455	19	378	406	22	12	M20	11.3	23.6
350	525	22	438	470	26	12	M24	19.6	38.6
400	580	22	489	521	26	12	M24	22.3	44.9
450	640	25	532	584	26	12	M24	29.0	63.0
500	705	29	609	641	26	16	M24	39.9	86.0
550	760	29	637	699	30	16	M27	50.0	107.0
600	825	32	720	756	30	16	M27	58.0	125.0
700	910	35	809	845	30	20	M27		
750	995	41	888	927	33	20	M30		
800	1060	41	942	984	36	20	M33		
850	1090	44	974	1016	36	20	M33		
900	1175	48	1050	1092	36	24	M33		
1000	1255	51	1133	1175	36	24	M33		
1200	1490	60	1368	1410	36	32	M33		

Nominal Size			0	imensions (mm)			Weight (kg)	
CIZE					Drilling		F 3		
DN	OD A	Thickness D	Raised Face Diam. G	Bolt Circle Diam. K	Bolt Hole Diam. H	Number of Bolts	Bolt Size & Thread	sow	Blind
15	95	*6	47	67	14	4	M12	0.6	0.7
20	100	*6	53	73	14	4	M12	0.7	0.8
25	115	*7	63	83	14	4	M12	0.9	1.0
32	120	*8	67	87	14	4	M12	1.0	1.1
40	135	*9	78	98	14	4	M12	1.2	1.4
50	150	*10	90	114	18	4	M16	1.4	1.7
65	165	*10	103	127	18	4	M16	1.6	2.1
80	185	*11	122	146	18	4	M16	2.0	2.7
90	205	12	141	165	18	8	M16		
100	215	13	154	178	18	8	M16	2.5	3.6
125	255	14	186	210	18	8	M16	3.7	5.5
150	280	17	207	235	22	8	M20	5.0	8.3
200	335	19	264	292	22	8	M20	7.1	12.9
250	405	22	328	356	22	12	M20	11.4	21.9
300	455	25	374	406	26	12	M24	15.1	31.8
350	525	29	438	470	26	12	M24	25.3	47.6
400	580	32	489	521	26	12	M24	31.3	66.0
450	640	35	552	584	26	16	M24	40.8	87.0
500	705	38	609	641	26	16	M24	53.0	114.0
550	760	44	663	699	30	16	M27		
600	825	48	717	756	33	16	M30	85.0	195.0
700	910	51	806	845	33	20	M30		
750	995	54	885	927	36	20	M33		
800	1060	54	942	984	36	20	M33		
850	1090	57	974	1016	36	20	M33		
900	1175	64	1050	1092	36	24	M33		
1000	1255	67	1130	1175	39	24	M36		
1200	1490	79	1365	1410	39	32	M36		

Carbon Steel Table Flanges - Dimensions & Weights

				Table F Flang	es to AS 2129								
Nominal Size		Dimensions (mm)											
		1			Drilling	- 1		Y	1				
DN	OD A	Thickness D	Raised Face Diam. G	Bolt Circle Diam. K	Bolt Hole Diam. H	Number of Bolts	Bolt Size & Thread	sow	Blind				
15	95	10	47	67	14	4	M12	0.6	0.7				
20	100	10	53	73	14	4	M12	0.7	0.8				
25	120	10	63	87	18	4	M16	0.9	1.0				
32	135	13	74	98	18	4	M16	1.1	1.3				
40	140	13	81	105	18	4	M16	1.2	1.4				
50	165	16	103	127	18	4	M16	2.2	2.6				
65	185	16	122	146	18	4	M16	2.5	3.0				
80	205	16	141	165	18	8	M16	3.0	3.8				
90	215	19	154	178	18	8	M16						
100	230	19	167	191	18	8	M16	4.3	5.9				
125	280	22	207	235	22	8	M20	7.4	10.1				
150	305	22	232	260	22	12	M20	8.1	11.9				
200	370	35	296	324	22	12	M20	12.7	20.3				
250	430	29	349	381	26	12	M24	18.1	31.4				
300	490	32	406	438	26	16	M24	23.9	44.7				
350	550	35	459	495	30	16	M27	35.3	63.0				
400	610	41	516	552	30	20	M27	47.6	90.0				
450	675	44	571	610	33	20	M30	62.0	120.0				
500	735	51	634	673	33	24	M30	80.0	162.0				
550	785	54	685	724	33	24	M30						
600	850	57	739	781	36	24	M33	112.0					
700	935	60	815	857	36	24	M33						
750	1015	67	898	940	36	28	M33						
800	1060	68	942	984	36	28	M33						
850	1090	70	974	1016	36	32	M33						
900	1185	76	1060	1105	39	32	M36						
1000	1275	83	1149	1194	39	36	M36						
1200	1530	95	1385	1441	42	40	M39						

				Table H Flang	es to AS 2129								
Nominal Size		Dimensions (mm)											
		1	l" "		Drilling	_		sow					
DN	OD A	Thickness D	Raised Face Diam. G	Bolt Circle Diam. K	Bolt Hole Diam. H	Number of Bolts	Bolt Size & Thread		Blind				
15	115	57	57	83	18	4	M16	0.8	1.0				
20	115	57	57	83	18	4	M16	0.9	1.0				
25	120	64	64	87	18	4	M16	1.1	1.2				
32	135	76	76	98	18	4	M16	1.5	1.8				
40	140	83	83	105	18	4	M16	1.7	2.0				
50	165	102	102	127	18	4	M16	2.6	3.1				
65	185	114	114	146	18	8	M16	3.1	3.8				
80	205	127	127	165	18	8	M16	4.3	5.4				
90	215	140	140	178	18	8	M16						
100	230	152	152	191	18	8	M16	5.8	7.9				
125	280	178	178	235	22	8	M20	9.9	12.6				
150	305	210	210	260	22	12	M20	10.8	15.4				
200	370	260	260	324	22	12	M20	18.3	28.2				
250	430	311	311	381	26	12	M24	22.1	38.0				
300	490	362	362	438	26	16	M24	31.0	58.0				
350	550	419	419	495	30	16	M27	47.7	85.0				
400	610	483	483	552	30	20	M27	62.0	118.0				
450	675	533	533	610	33	20	M30	105.0	196.0				
500	735	597	597	673	33	24	M30						
550	785	648	648	724	33	24	M30						
600	850	699	699	781	36	24	M33						