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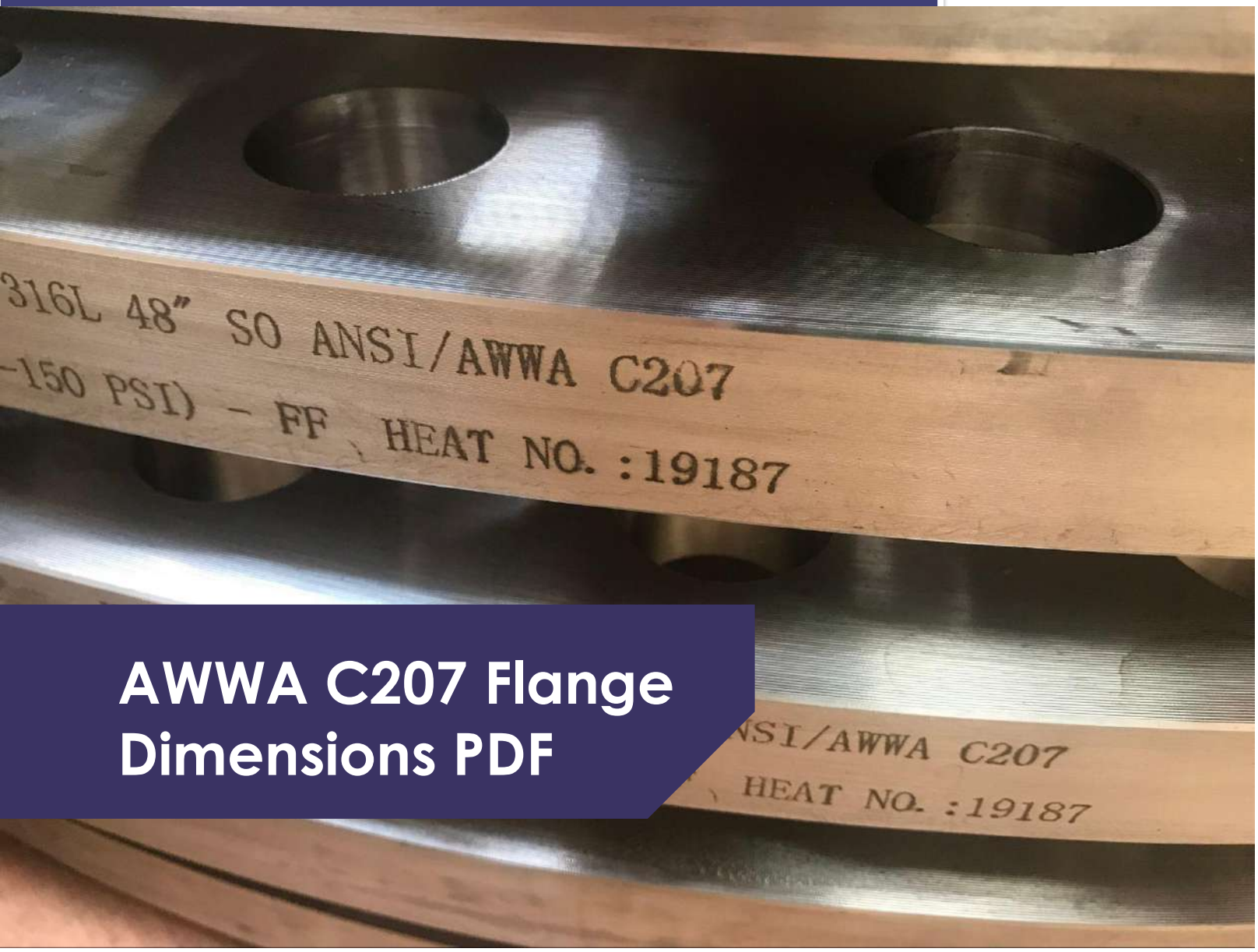

AWWA C207 Flange Dimensions PDF

Ramesh Group	ADNOC Approved	Suppliers Code: 20031525
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Specification Of AWWA C207 Class B Flange As Per American Water Works

AWA C207 Specifications

American Standard	Size Range	Pressure class
➢ **AWWA C207 Flange**	➢ 4" To 144" ➢ 100mm To 3600mm	➢ 86 PSI (Class B) ➢ 175-150 PSI (Class D) ➢ 275 PSI (Class E) ➢ 300 PSI (Class F)
Manufacturing Process	**Inspection**	**Testing & MTC**
➢ **Plate** ➢ **Forgings** ➢ **Bar**	➢ O.D. and I.D.Of Bodys ➢ Diameter of bolt circle ➢ Alignment of bolt hole ➢ Hub Diameter ➢ Weld End Thickness	➢ Impact Test ➢ PMI Test ➢ Shell Pressure Test ➢ Radiography ➢ Hardness test ➢ Tensile test
Full Form	**Coating**	**Surface Finish**
➢ **American Water Works Association**	➢ Black coating ➢ Anti-Rust Oil Coating ➢ PE coating	➢ Concentric ➢ Serrated Spiral
Gasket	**Facing**	**Bolts Holes Number**
➢ **Full face** ➢ **Ring joint** ➢ **Rubber** ➢ **Compressed fiber** ➢ **PTFE**	➢ FF (Flat Face)	➢ 8 to 84
Material	**Installations**	**Types**

➢ **Stainless Steel** ➢ **Ductile iron** ➢ **Asbestos-cement** ➢ **Concrete**	➢ Waterworks ➢ Waste water ➢ Plant piping	➢ Ring Type Slip-on Flanges ➢ Hub Type Slip-on Flanges ➢ Blind Flanges

Cold-Water Pressure
1896 KPa

Studs
ASTM A193 B7

Bolts
ASTM A307 Grade B

Formed
1881

Drilling
Drilled 1/8″ (3.2 MM)

Working Pressure
16,000 PSI

Manufacturer of AWWA C207 Class D Slip On Flange in India, Check AWWA C207 Class E Blind Flange Pressure Class.

Ramesh Steel CORPORATION

AWWA Standard

- AWWA C200 - Steel Water
- AWWA C205 - Cement-Mortar
- AWWA C209 - Cold-Applied Tape Coatings
- AWWA C210 - Poxy Coating (Liquid)
- AWWA C214 - Tape Coating

Suitable Temperature Of AWWA C207 Flange

Class B 86 PSI (593 kPa) **Class E** 275 PSI (1,896 kPa)	**Class D** Sizes 4 to 12 inch: 175 PSI (1,207 kPa) Sizes greater than 12 inch: 150 PSI (1,034 kPa). **Class F** 300 PSI (2,068 kPa)
Supplier of AWWA C207 Class D Ring Flange Ranging from 4" to 144", View Types & Uses in FF/ RF/ Facing.	

Types	Class	Class
Ring Flange	Class B Class E	Class D Class F
Blind Flange	Class B Class E	Class D Class F
Hub Flange	Class D	Class E

Common Types & Uses Of AWWA C207 Pipe Flanges

Types	Types	Uses
AWWA C207	Hub and Slip On Ring Flange	Fitted With Pipe
AWWA C207	Blind Flange	Close a Pipe
AWWA C207	Threaded Iron Flange	Fitted With Threaded Pipe

AWWA C207 Material

- Nickel Alloy
- MS (Mild Steel)
- SS (Stainless Steel)
- Steel Alloy
- Hastelloy
- Ductile Iron
- Asbestos-Cement
- Concrete

Most Selling Coating For AWWA Flange

- Anti-Rust Oil Coating
- PE Coating
- Coal Tar Coating
- Yellow Golden Coating
- Black Coating

Find AWWA C207 Class F Flange in Various Materials & Coating, View Gaskets AWWA C207 Material in PTFE & RTJ

AWWA C207 Gasket Dimensions

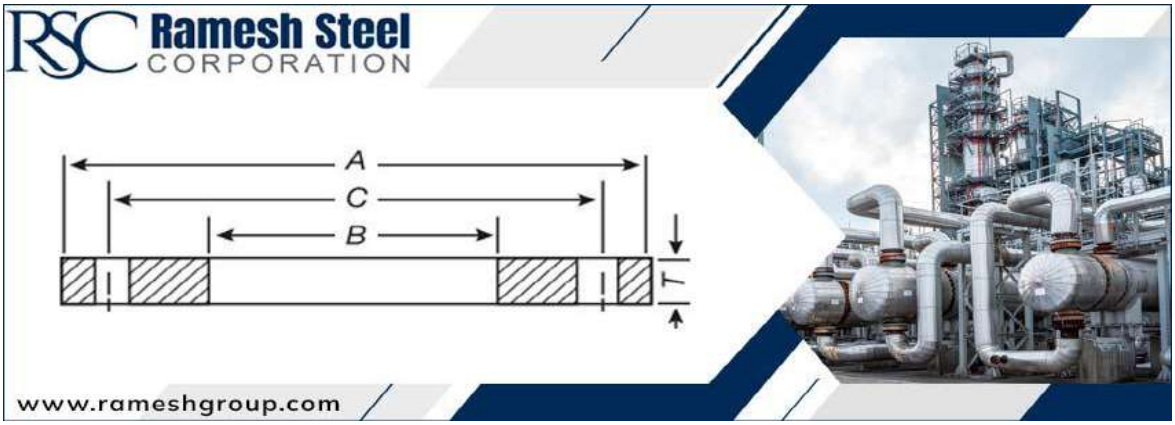
AWWA C207	Working Pressure	Size	Type Of Gaskets	Face Type	Gaskets Thickness

Class B	86 PSI	4 To 24 Inch	Rubber	Flat Face	1.59 or 3.18 MM
Class B	86 PSI	26 To 144 Inch	Rubber	Ring Type	3.18 MM
Class D	175 PSI	4 To 12 Inch	Rubber	Flat Face	1.59 or 3.18MM
Class D	150 PSI	14 To 24 Inch	Rubber	Flat Face	1.59 or 3.18MM
Class D	150 PSI	26 To 144 Inch	Rubber	Ring Type	3.18MM
Class E	175 PSI	4 To 12 Inch	Rubber	Ring Type	1.59MM
Class E	150 PSI	14 To 24 Inch	Rubber	Ring Type	1.59MM
Class E	275 PSI	4 To 24 Inch	Nonasbestos	Ring Type	1.59MM
Class E	275 PSI	26 To 144 Inch	Nonasbestos	Ring Type	3.18MM
Class F	300 PSI	4 To 24 Inch	Nonasbestos	Ring Type	1.59MM
Class F	300 PSI	26 To 48 Inch	Nonasbestos	Ring Type	3.18MM

Check AWWA Flange Dimensions PDF and Weight in B/ D /E /F Pressure Class.

Ramesh Steel CORPORATION

AWWA C207 Class B Flange Dimensions PDF



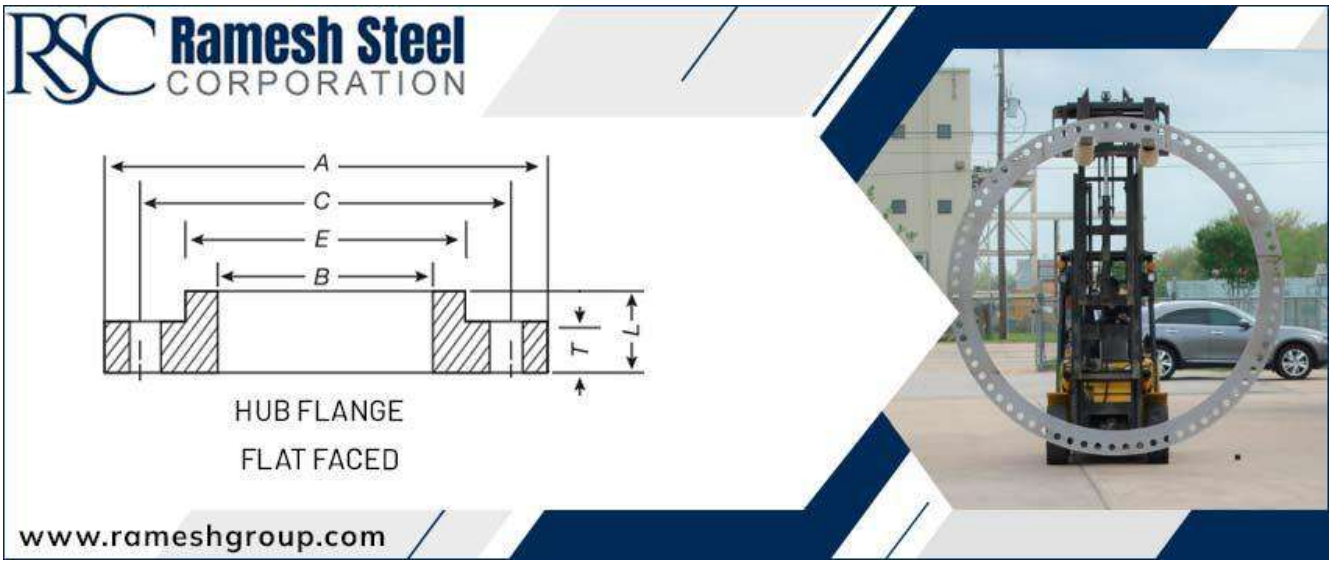
Size	T	A	B
Inch	Thickness	Outer Diameter	Inner Diameter
4	0.625	9.00	4.57
5	0.625	10.00	5.66
6	0.688	11.00	6.72
8	0.688	13.50	8.72
10	0.688	16.00	10.88
12	0.688	19.00	12.88
14	0.688	21.00	14.19
16	0.688	23.50	16.19
18	0.688	25.00	18.19
20	0.688	27.50	20.19
22	0.750	29.50	22.19
24	0.750	32.00	24.19
26	0.812	34.25	26.19
28	0.875	36.50	28.19
30	0.875	38.75	30.19
32	0.938	41.75	32.19
34	0.938	43.75	34.19
36	1.000	46.00	36.19
40	1.000	50.75	40.19
42	1.125	53.00	42.19
44	1.125	55.25	44.19
46	1.125	57.25	46.19
48	1.250	59.50	48.19
50	1.250	61.75	50.19
52	1.250	64.00	52.19
60	1.500	73.00	60.19
66	1.625	80.00	66.19
72	1.750	86.50	72.19
78	2.000	93.00	78.19
84	2.000	99.75	84.19

90	2.250	106.50	90.19
102	2.500	120.00	102.19
108	2.500	126.75	108.19
114	2.750	133.50	114.19
120	2.750	140.25	120.19
126	3.000	147.00	126.19
132	3.000	153.75	132.19
144	3.250	167.25	144.19

AWWA C207 Class B Blind Flange Weight

Size	Class B Blind Flange	Class B Ring Flange
Inch	**Weight KG**	**Weight KG**
4	4.83	3.51
5	5.93	3.90
6	7.98	4.85
8	12.24	6.96
10	16.96	8.73
12	25.35	12.73
14	34.03	15.60
16	47.94	18.76
18	57.59	18.71
20	76.18	22.06
22	95.20	25.77
24	121.16	30.39
26	148.91	36.24
30	216.17	47.49
32	266.61	59.98
34	307.03	62.60
36	359.39	72.92
38	429.10	84.22
40	484.43	87.42
42	554.70	106.15
44	629.41	113.00
46	703.11	118.03
48	790.48	139.15
50	878.57	143.89
52	982.76	153.76
54	1094.76	180.29
60	1466.21	230.86
66	1942.20	301.44
72	2463.24	364.21

AWWA C207 Class D Flange Dimensions PDF



NPS	A	B	C	E	T	L
Inch	OD	ID	Bolt Circle Dia.	Hub Diameter	Thickness	Through Hub Length
4	9.00	4.57	7.50	5.312	0.500	0.875
5	10.00	5.66	8.50	6.312	0.562	1.250
6	11.00	6.72	9.50	7.562	0.562	1.250
8	13.50	8.72	11.75	9.688	0.562	1.250
10	16.00	10.88	14.25	12.000	0.688	1.250
12	19.00	12.88	17.00	14.375	0.688	1.250
14	21.00	14.19	18.75	15.750	0.750	1.250
16	23.50	16.19	21.25	18.000	0.750	1.250
18	25.00	18.19	22.75	19.875	0.750	1.250
20	27.50	20.19	25.00	22.000	0.750	1.250
22	29.50	22.19	27.25	24.250	1.000	1.750
24	32.00	24.19	29.50	26.125	1.000	1.750
26	34.25	26.19	31.75	28.500	1.000	1.750
28	36.50	28.19	34.00	30.500	1.000	1.750
30	38.75	30.19	36.00	32.500	1.000	1.750
32	41.75	32.19	38.50	34.750	1.125	1.750
34	43.75	34.19	40.50	36.750	1.125	1.750
36	46.00	36.19	42.75	38.750	1.125	1.750
38	48.75	38.19	45.25	40.750	1.125	1.750
40	50.75	40.19	47.25	43.000	1.125	1.750
42	53.00	42.19	49.50	45.000	1.250	1.750

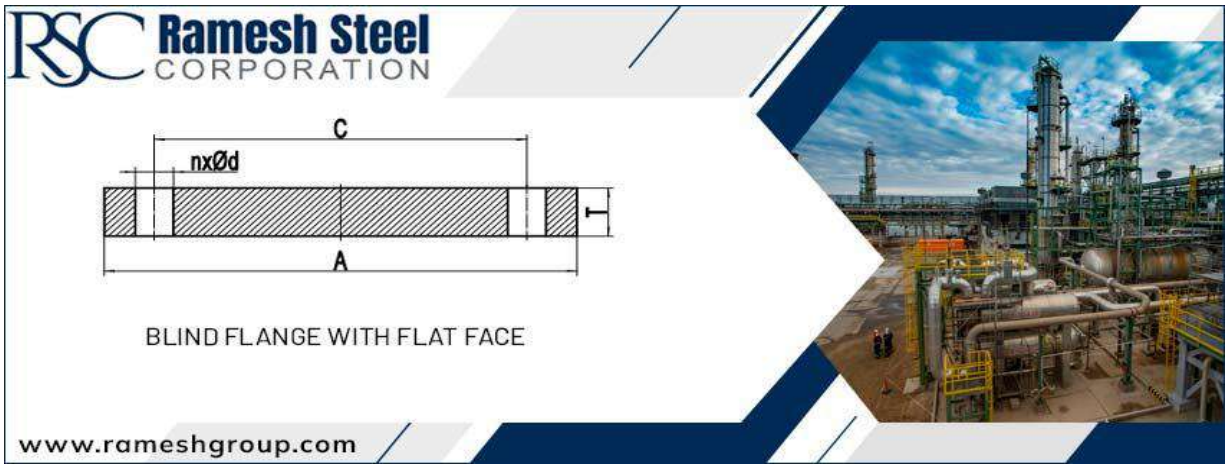
44	55.25	44.19	51.75	47.000	1.250	2.250
46	57.25	46.19	53.75	49.000	1.250	2.250
48	59.50	48.19	56.00	51.000	1.375	2.500
50	61.75	50.19	58.25	53.000	1.375	2.500
52	64.00	52.19	60.50	55.000	1.375	2.500
54	66.25	54.19	62.75	57.000	1.375	2.500
60	73.00	60.19	69.25	63.000	1.500	2.750
66	80.00	66.19	76.00	69.000	1.500	2.750
72	86.50	72.19	82.50	75.000	1.500	2.750
78	93.00	78.19	89.00	81.250	1.750	3.000
84	99.75	84.19	95.50	87.500	1.750	3.000
90	106.50	90.19	102.00	93.750	2.000	3.250
96	113.25	96.19	108.50	100.000	2.000	3.250

AWWA C207 Class D Flange Weight Chart

NPS	Class D Ring Flanges Weight in KG	Class D Blind Flanges Weight in KG
4	3.51	4.83
5	3.90	6.16
6	4.85	8.04
8	6.96	14.45
10	8.73	23.49
12	15.02	39.39
14	21.27	48.74
16	27.27	67.99
18	28.88	80.68
20	36.07	106.06
22	40.81	131.87
24	50.65	165.50
26	58.56	203.48
28	64.24	246.35
30	74.63	293.89
32	95.92	362.57
34	100.11	416.27

36	118.50	486.44
38	136.86	580.32
40	142.06	653.84
42	165.13	748.28
44	175.78	848.25
46	183.60	946.02
48	208.72	1062.73
50	230.22	1181.29
52	246.02	1320.03
54	278.63	1469.52
60	346.29	1964.82
66	463.76	2597.98
72	546.31	3291.18
78	624.12	-
84	747.41	-
90	849.88	-
96	1040.57	-
102	1128.61	-
108	1309.54	-
114	1459.40	-
120	1615.53	-
126	1845.96	-
132	2095.33	-
144	2579.41	-

AWWA C207 Class E Flange Dimensions PDF

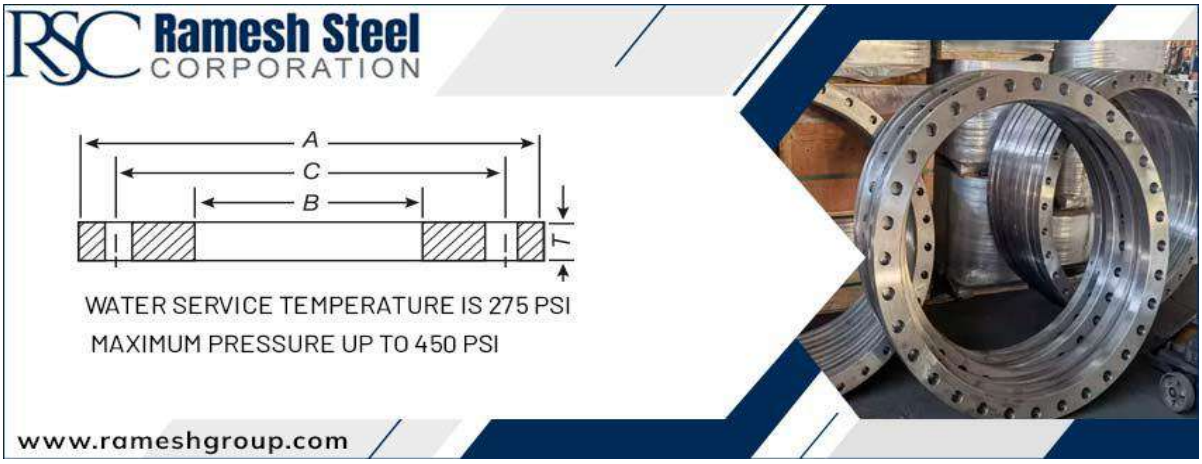


NPS	A	C	T	n	d
4	9.00	7.50	1.125	8	0.625
5	10.00	8.50	1.188	8	0.750
6	11.00	9.50	1.313	8	0.750
8	13.50	11.75	1.500	8	0.750
10	16.00	14.25	1.563	12	0.875
12	19.00	17.00	1.750	12	0.875
14	21.00	18.75	1.875	12	1.000
18	25.00	22.75	2.125	16	1.125
20	27.50	25.00	2.375	20	1.125
22	29.50	27.25	2.500	20	1.250
24	32.00	29.50	2.625	20	1.250
26	34.25	31.75	2.750	24	1.250
28	36.50	34.00	2.750	28	1.250
30	38.75	36.00	2.875	28	1.250
32	41.75	38.50	2.875	28	1.500
36	46.00	42.75	3.209	32	1.500
40	50.75	47.25	3.533	36	1.500
48	59.50	56.00	4.159	44	1.500
50	61.75	58.25	4.327	44	1.750
52	64.00	60.50	4.489	44	1.750
54	66.25	62.75	4.651	44	1.750
60	73.00	69.25	5.116	52	1.750
66	80.00	76.00	5.601	52	1.750
72	86.50	82.50	6.066	60	1.750

AWWA C207 Class E Flange Weight Chart

NPS	Class E Ring Flange Weight in KG	Class E Hub Flange Weight in KG
4	6.32	5.55
5	7.42	6.34
6	9.25	7.73
8	15.17	12.50
10	19.84	17.02
12	32.37	26.99
14	42.52	35.31
18	57.78	49.77
20	76.15	63.28
22	85.89	73.34
24	106.40	89.49
26	122.74	106.82
28	134.65	121.94
30	156.04	137.71
32	191.84	170.11
36	227.89	205.26
38	263.19	239.56
42	318.46	294.37
44	339.00	312.46
46	360.70	332.88
50	402.89	375.46
52	445.91	418.73
54	491.71	464.91
60	596.39	569.14
72	910.52	872.51
78	1078.02	1035.01
84	1234.84	1174.42
90	1451.89	1389.85
96	1640.90	1558.52
102	1909.96	-
108	2134.06	-

AWWA C207 Class F Flange Dimensions PDF



NPS	A	B	C	n	T
4	10.00	4.57	7.88	8	1.13
5	11.00	5.66	9.25	8	1.21
6	12.50	6.73	10.62	12	1.31
8	15.00	8.73	13.00	12	1.31
10	17.50	10.88	15.25	16	1.50
12	20.50	12.88	17.75	16	1.63
16	25.50	16.19	22.50	20	2.14
18	28.00	18.19	24.75	24	2.25
20	30.50	20.19	27.00	24	2.33
22	33.00	22.19	29.25	24	2.50
24	36.00	24.19	32.00	24	2.69
26	38.25	26.19	34.50	28	3.00
28	40.75	28.19	37.00	28	3.13
30	43.00	30.19	39.25	28	3.15
32	45.25	32.19	41.50	28	3.25
34	47.50	34.19	43.50	28	3.38
36	50.00	36.19	46.00	32	3.46

38	52.25	38.19	48.00	32	3.50
40	54.25	40.19	50.25	36	3.63
42	57.00	42.19	52.75	36	3.81
44	59.25	44.19	55.00	36	4.00
46	61.50	46.19	57.25	40	4.13
48	65.00	48.19	60.75	40	4.50

AWWA C207 Class F Flange Weight

NPS	Class F Blind Flange Weight in KG	Class F Ring Flange Weight in KG
4	10.72	8.33
5	14.04	10.13
6	19.46	13.47
8	28.19	18.10
10	43.34	25.40
12	65.09	37.77
14	97.56	58.09
16	132.41	75.74
18	167.91	92.69
20	208.30	112.34
22	263.60	139.23
24	335.00	175.97
26	413.61	205.71
28	493.99	242.69
30	559.95	267.05
32	656.15	299.77
34	757.58	337.68
36	873.63	365.58
38	996.58	398.55

40	1118.63	427.36
42	1300.64	502.89
44	1467.36	563.86
46	1639.28	612.59
48	1953.58	782.95