

AMERITUBE

MARINE PIPES & FITTINGS

ABOUT US

Founded in 2004, Ameritube grew out of the problems and risks with the overextended international supply chain. Experienced engineers and business professionals with firsthand knowledge of supply chains in the Automotive industry, realized that the costs of mitigating risks from supply chain failures, ensuring consistent supply, and managing fluctuations in demand was costing more than the benefit of lower labor costs overseas. Ameritube was founded under the principles of creating a customized link in the supply chain that could respond to changes in demand patterns by maintaining some flexible inventory domestically and custom manufacturing for end users. This three part hybrid of international sourcing, domestic custom manufacturing, and domestic distribution is the cornerstone of a strategy borne out of a deep understanding of creating successful supply chains. The marketplace response to this strategy has been tremendous as Ameritube continues to develop domestic capabilities to grow our business into the future.



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PIPES



Material:

NAVINIC 10[®] CuNi10Fe1Mn alloy 706
NAVINIC 30[®] CuNi30Fe1Mn alloy 715

Dimension: MIL-T-16420K Type I Seamless or type II welded Grade 1 or 2 (Inch Units)

OD		CLASS 200		CLASS 700	
Nominal inch	Actual inch	WT inch	Theoretical weight lb/ft	WT inch	Theoretical weight lb/ft
Seamless Type I					
1/8	0.405	...	...	0.058	0.24
1/4	0.540	0.065	0.38	0.065	0.38
3/8	0.675	0.065	0.48	0.072	0.53
1/2	0.840	0.065	0.77	0.072	0.67
3/4	1.050	0.065	0.98	0.083	0.98
1	1.315	0.065	1.60	0.095	1.41
1 1/4	1.660	0.072	2.06	0.095	1.81
1 1/2	1.900	0.072	2.38	0.109	2.38
2	2.375	0.083	3.01	0.120	3.30
2 1/2	2.875	0.083	4.03	0.134	4.47
3	3.500	0.095	4.94	0.165	6.70
3 1/2	4.000	0.095	5.67	0.180	8.37
4	4.500	0.109	6.40	0.203	10.61
5	5.563	0.125	8.85	0.220	14.32
6	6.625	0.134	10.58	0.259	20.08
8	8.625	0.148	15.28	0.340	34.32
10	10.750	0.187	21.26	0.380	47.97
12	12.750	0.250	27.54	0.454	67.97
Seamless Type I or Welded Type II					
14	14.000	0.250	...	...	...
16	16.000	0.250	...	...	...
18	18.000	0.250	...	...	...
20	20.000	0.250	...	...	...

Material:

NAVINIC 10[®] CuNi10Fe1Mn alloy 706
NAVINIC 30[®] CuNi30Fe1Mn alloy 715

Dimension: Seamless ASTM B466
Welded ASTM B467

OD			WT		Theoretical Weight	
Nominal inch	Actual inch	Actual mm	Actual inch	Actual mm	lb/ft	kg/m
Seamless						
1/8	0.405	10.29	0.058	1.47	0.24	0.36
1/4	0.540	13.72	0.065	1.65	0.38	0.56
3/8	0.675	17.15	0.065	1.65	0.48	0.72
1/2	0.840	21.34	0.065	1.65	0.61	0.91
3/4	1.050	26.67	0.065	1.65	0.78	1.16
1	1.315	33.40	0.065	1.65	0.99	1.47
1 1/4	1.660	42.16	0.072	1.83	1.39	2.07
1 1/2	1.900	48.26	0.072	1.83	1.60	2.39
2	2.375	60.32	0.083	2.11	2.32	3.45
2 1/2	2.875	73.03	0.083	2.11	2.82	4.20
3	3.500	88.90	0.095	2.41	3.93	5.85
3 1/2	4.000	101.60	0.095	2.41	4.51	6.71
4	4.500	114.30	0.109	2.77	5.83	8.68
5	5.563	141.30	0.125	3.18	8.29	12.34
6	6.625	168.30	0.134	3.40	10.58	15.75
8	8.625	219.10	0.134	3.40	13.84	20.60
Seamless or Welded						
10	10.750	273.05	0.134	3.40	17.30	25.75
12	12.750	323.90	0.156	3.96	23.91	35.58
14	14.000	355.60	0.165	4.19	27.79	41.35
16	16.000	406.40	0.165	4.19	31.81	47.33
18	18.000	457	0.180	4.57	39.02	58.07
20	20.000	508	0.180	4.57	43.42	64.62
Welded						
24	24.000	610	0.180	4.57	52.22	77.71
30	30.000	762	0.250	6.35	90.56	137.77



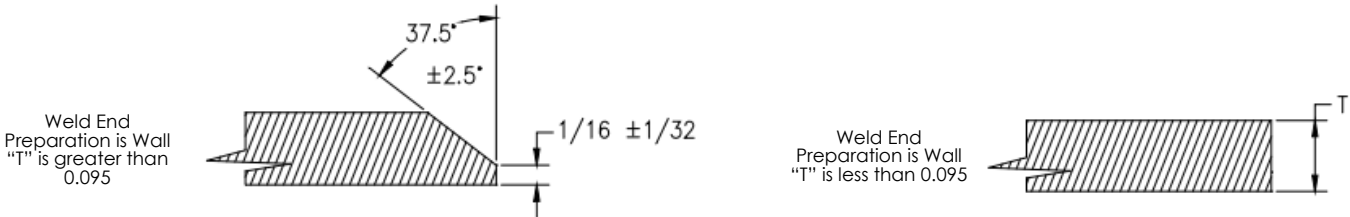
BUTT WELD FITTINGS

CL200 Butt Weld

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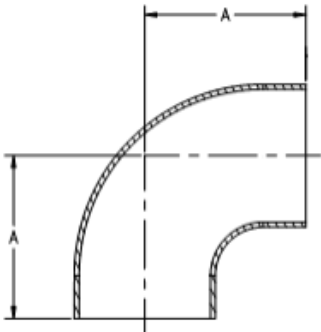


Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715



Class 200			
Nominal inch	Maxium OD	Wall Thickness	Minimum Tangent
1/4	0.540	0.065	0.281
3/8	0.675	0.065	0.375
1/2	0.840	0.065	0.438
3/4	1.050	0.065	0.469
1	1.315	0.065	0.500
1 1/4	1.660	0.072	0.563
1 1/2	1.900	0.072	0.688
2	2.375	0.083	0.719
2 1/2	2.875	0.083	0.875
3	3.500	0.095	0.906
3 1/2	4.000	0.095	0.938
4	4.500	0.109	0.969
5	5.563	0.125	1.094
6	6.625	0.134	1.172
7	7.625	0.134	1.281
8	8.625	0.148	1.375
9	9.625	0.187	1.563
10	10.750	0.187	1.563
12	12.750	0.250	1.688
14	14.000	0.250	N/A
16	16.000	0.250	N/A
18	18.000	0.250	N/A
20	20.000	0.250	N/A
24	24.000	0.250	N/A

Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 200		
Nominal Pipe Size	A	Estimated Weight (lbs)
1	1.500	0.15
1 1/4	1.813	0.24
1 1/2	2.188	0.36
2	2.719	0.62
2 1/2	3.375	1.07
3	3.906	1.70
3 1/2	4.438	2.70
4	4.969	3.90
5	6.094	7.20
6	7.172	11.80
7	8.281	18.20
8	9.375	26.50
9	10.563	38.80
10	11.563	49.20
12	13.688	70.50
14	14.500	85.00
16	16.500	108.00
18	18.500	140.00
20	20.500	175.00
24	24.500	240.00

90° Long Radius Elbows

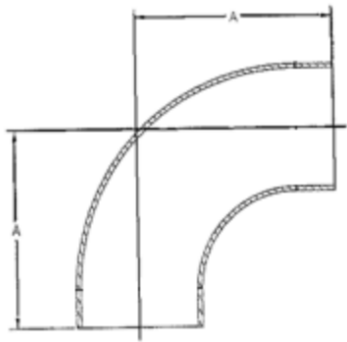


90° Long Radius Elbows, Reducing

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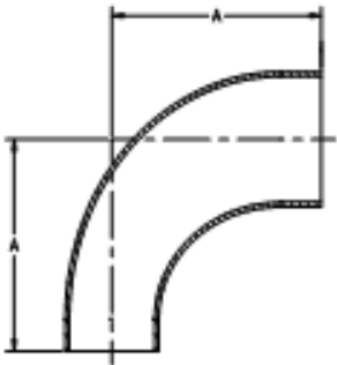
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Material:
NAVINIC 10[®] CuNi10Fe1Mn alloy 706
NAVINIC 30[®] CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 200		
Nominal Pipe Size	A	Estimated Weight (lbs)
1/4	1.281	0.05
3/8	1.625	0.06
1/2	1.938	0.08
3/4	1.594	0.10
1	2.000	0.18
1 1/4	2.438	0.30
1 1/2	2.938	0.45
2	3.719	0.76
2 1/2	4.625	1.30
3	5.406	2.20
3 1/2	6.250	3.30
4	6.969	4.80
5	8.594	9.00
6	10.172	15.00
7	11.781	23.10
8	13.375	33.60
9	15.063	49.40
10	16.563	60.80
12	19.688	96.00
14	21.500	120.00
16	24.500	160.00
18	27.500	200.00
20	30.500	250.00
24	36.500	545.00

Material:
NAVINIC 10[®] CuNi10Fe1Mn alloy 706
NAVINIC 30[®] CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 200		
Nominal Pipe Size	A	Estimated Weight (lbs)
2 x 3/4	3.719	0.66
2 x 1	3.719	0.70
2 x 1 1/4	3.719	0.73
2 x 1 1/2	3.719	0.75
2 1/2 x 1 1/4	4.625	1.10
2 1/2 x 1 1/2	4.625	1.20
2 1/2 x 2	4.625	1.20
3 x 2 1/2	5.406	2.10
3 x 2	5.406	2.10
3 x 2 1/2	5.406	2.20
3 1/2 x 1 1/2	6.188	3.10
3 1/2 x 2	6.188	3.10
3 1/2 x 2 1/2	6.188	3.20
3 1/2 x 3	6.188	3.20
4 x 1 1/2	6.969	4.50
4 x 2	6.969	4.70
4 x 2 1/2	6.969	4.70
4 x 3	6.969	4.70
4 x 3 1/2	6.969	4.80
5 x 2 1/2	8.594	8.60
5 x 3	8.594	8.70
5 x 3 1/2	8.594	8.80
5 x 4	8.594	8.90
6 x 3	10.172	14.00
6 x 3 1/2	10.172	14.60
6 x 4	10.172	14.80
6 x 5	10.172	14.90
8 x 4	13.375	28.90
8 x 5	13.375	29.40
8 x 6	13.375	31.20
10 x 6	16.563	58.50
10 x 8	16.563	63.70
12 x 6	19.688	85.20
12 x 8	19.688	91.50
12 x 10	19.688	94.30

45° Elbows

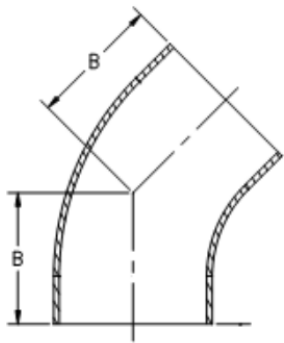


Tees

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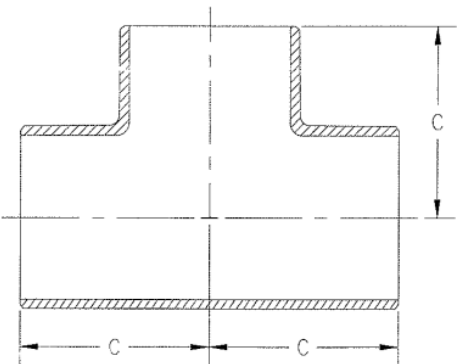
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Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 200		
Nominal Pipe Size	A	Estimated Weight (lbs)
1/4	0.703	0.03
3/8	0.891	0.04
1/2	1.063	0.05
3/4	0.938	0.06
1	1.125	0.11
1 1/4	1.344	0.18
1 1/2	1.625	0.27
2	1.969	0.48
2 1/2	2.438	0.83
3	2.766	1.20
3 1/2	3.172	2.00
4	3.453	2.90
5	4.203	5.30
6	4.906	8.60
7	5.625	13.30
8	6.344	19.30
10	7.156	28.10
12	7.781	37.50
14	9.141	45.00

Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 200		
Nominal Pipe Size	C	Estimated Weight (lbs)
1/4	0.688	0.03
3/8	0.906	0.04
1/2	1.094	0.09
3/4	1.250	0.18
1	1.500	0.28
1 1/4	1.875	0.45
1 1/2	2.250	0.62
2	2.500	0.86
2 1/2	3.000	1.40
3	3.375	2.10
3 1/2	3.750	3.10
4	4.125	4.40
5	4.875	7.90
6	5.625	12.70
7	6.313	18.90
8	7.000	26.70
9	7.750	38.60
10	8.500	51.60
12	10.000	90.00

Tees, Reducing

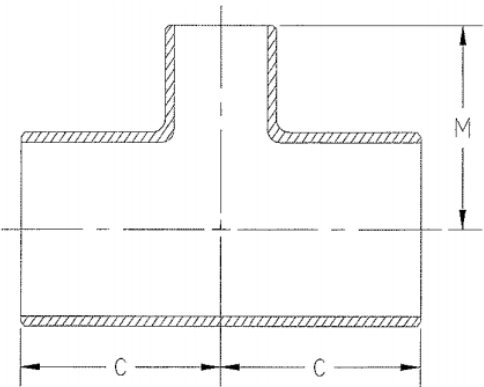


Tees, Reducing cont.

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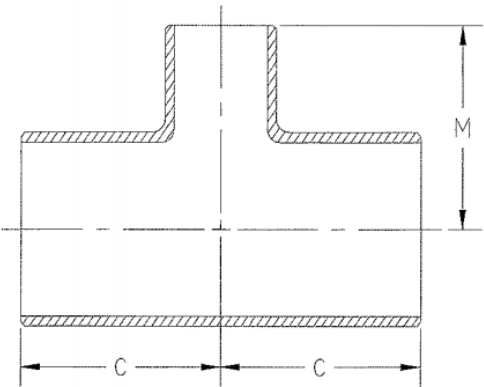
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Material:
NAVINIC 10[®] CuNi10Fe1Mn alloy 706
NAVINIC 30[®] CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 200			
Nominal Pipe Size	C	M	Estimated Weight (lbs)
3/8 x 1/4	0.906	0.869	0.04
1/2 x 1/4	1.094	0.951	0.08
1/2 x 3/8	1.094	1.045	0.08
3/4 x 1/4	1.250	1.056	0.15
3/4 x 3/8	1.250	1.150	0.16
3/4 x 1/2	1.250	1.275	0.16
1 x 1/4	1.500	1.189	0.25
1 x 3/8	1.500	1.283	0.26
1 x 1/2	1.500	1.408	0.26
1 x 3/4	1.500	1.470	0.27
1-1/4 x 1/2	1.875	1.580	0.64
1-1/4 x 3/4	1.875	1.643	0.65
1-1/4 x 1	1.875	1.705	0.66
1-1/2 x 1/2	2.250	1.700	0.85
1-1/2 x 3/4	2.250	1.763	0.87
1-1/2 x 1	2.250	1.825	0.90
1-1/2 x 1-1/4	2.250	1.950	0.92
2 x 1/2	2.500	1.938	1.30
2 x 3/4	2.500	2.000	1.40
2 x 1	2.500	2.063	1.40
2 x 1-1/4	2.500	2.188	1.50
2 x 1-1/2	2.500	2.438	1.50
2-1/2 x 1	3.000	2.313	1.20
2-1/2 x 1-1/4	3.000	2.438	1.30
2-1/2 x 1-1/2	3.000	2.688	1.30
2-1/2 x 2	3.000	2.750	1.30
3 x 1	3.375	2.625	1.90
3 x 1-1/4	3.375	2.750	2.00
3 x 1-1/2	3.375	3.000	2.00
3 x 2	3.375	3.063	2.00
3 x 2-1/2	3.375	3.313	2.90
3-1/2 x 1-1/4	3.750	3.000	3.00
3-1/2 x 1-1/2	3.750	3.250	3.00
3-1/2 x 2-1/2	3.750	3.313	3.00
3-1/2 x 2-1/2	3.750	3.563	3.00
3-1/2 x 3	3.750	3.656	3.00

Material:
NAVINIC 10[®] CuNi10Fe1Mn alloy 706
NAVINIC 30[®] CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar

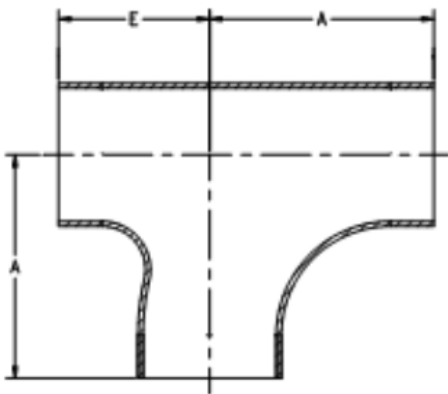


Class 200			
Nominal Pipe Size	C	M	Estimated Weight (lbs)
4 X 1-1/2	4.125	3.500	4.10
4 X 2	4.125	3.560	4.20
4 X 2-1/2	4.125	3.813	4.30
4 X 3	4.125	3.906	4.30
4 X 3-1/2	4.125	4.000	4.30
5 X 2	4.875	4.094	7.40
5 X 2-1/2	4.875	4.344	7.50
5 X 3	4.875	4.438	7.70
5 X 3-1/2	4.875	4.532	7.70
5 X 4	4.875	4.594	7.80
6 X 2	5.625	4.625	12.00
6 X 2-1/2	5.625	4.875	12.10
6 X 3	5.625	4.969	12.30
6 X 3-1/2	5.625	5.063	12.40
6 X 4	5.625	5.125	12.50
6 X 5	5.625	5.375	12.50
8 X 4	7.000	6.125	25.70
8 X 5	7.000	6.375	25.80
8 X 6	7.000	6.531	25.80
10 X 6	8.500	7.594	48.70
10 X 8	8.500	8.000	48.80
12 X 6	10.000	8.594	83.20
12 X 8	10.000	9.000	85.10
12 X 10	10.000	9.375	87.30



Long-Turn Single Sweep Tees

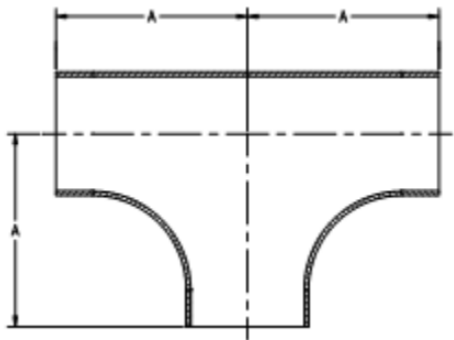
Material:
NAVINIC 10[®] CuNi10Fe1Mn alloy 706
NAVINIC 30[®] CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 200			
Nominal Pipe Size	A	E	Estimated Weight (lbs)
2	3.719	2.500	3.10
2 1/2	4.625	3.000	3.60
3	5.406	3.375	4.20
3 1/2	6.250	3.750	5.70
4	6.969	4.125	8.10
5	8.594	4.875	11.70
6	10.172	5.625	20.00
7	11.781	6.313	28.60
8	13.375	7.000	35.70

Long-Turn Double Sweep Tees

Material:
NAVINIC 10[®] CuNi10Fe1Mn alloy 706
NAVINIC 30[®] CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 200		
Nominal Pipe Size	A	Estimated Weight (lbs)
2	3.719	3.30
2 1/2	4.625	3.80
3	5.406	4.50
3 1/2	6.250	6.10
4	6.969	8.60
5	8.594	12.30
6	10.172	22.50
7	11.781	30.10
8	13.375	39.80
10	16.562	60

45° Y-Laterals

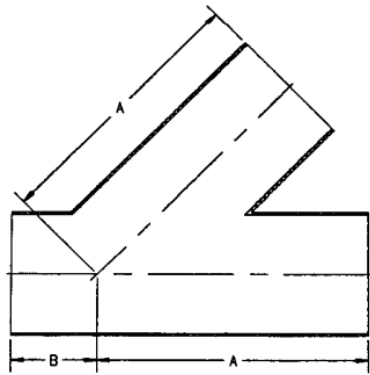


180° Return Bends

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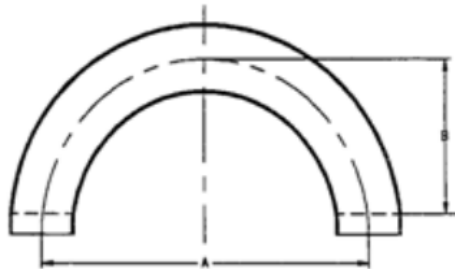
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Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 200			
Nominal Pipe Size	A	B	Estimated Weight (lbs)
1	5.750	1.750	0.90
1 1/4	6.250	1.750	1.20
1 1/2	7.000	2.000	2.40
2	8.000	2.500	3.80
2 1/2	9.500	2.500	5.40
3	10.000	3.000	6.80
3 1/2	11.500	3.000	9.20
4	12.000	3.000	11.60
5	13.500	3.500	19.10
6	14.500	3.500	26.00
8	17.500	4.500	40.60
10	20.500	5.000	65.50
12	24.500	5.500	95.50

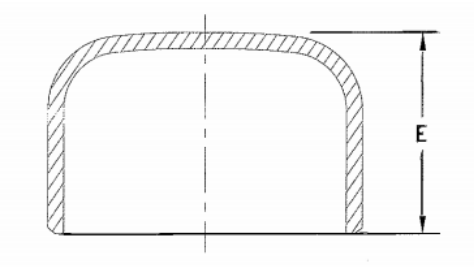
Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 200			
Nominal Pipe Size	A	B	Estimated Weight (lbs)
1	3.000	1.500	0.55
1 1/4	3.750	1.875	0.68
1 1/2	4.500	2.250	0.95
2	6.00	3.000	1.60
2 1/2	7.500	3.750	2.80
3	9.000	4.500	4.60
3 1/2	10.500	5.250	7.00
4	12.000	6.000	10.30
5	15.000	7.500	19.00
6	18.000	9.000	31.30
8	24.000	12.000	70.20
10	30.000	15.000	138.00
12	36.000	18.000	175.00

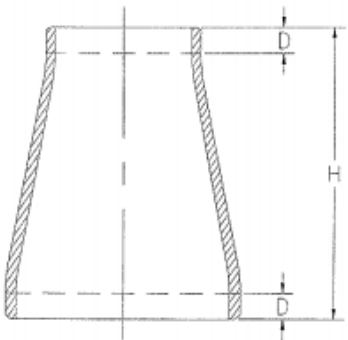


Material:
NAVINIC 10[®] CuNi10Fe1Mn alloy 706
NAVINIC 30[®] CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 200		
Nominal Pipe Size	E	Estimated Weight (lbs)
1/4	0.750	0.05
3/8	1.000	0.07
1/2	1.250	0.10
3/4	1.250	0.13
1	1.500	0.18
1 1/4	1.500	0.25
1 1/2	1.500	0.27
2	1.500	0.39
2 1/2	1.500	0.44
3	2.000	0.75
3 1/2	2.500	1.00
4	2.500	1.30
5	3.000	2.10
6	3.500	3.00
7	3.500	3.30
8	4.000	4.60
9	4.500	7.00
10	5.000	8.70
12	6.000	16.20

Material:
NAVINIC 10[®] CuNi10Fe1Mn alloy 706
NAVINIC 30[®] CuNi30Fe1Mn alloy 715
Dimension:
DWG 810-1385880 or similar



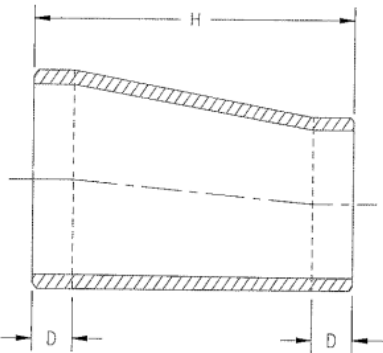
Class 200		
Nominal Pipe Size	H	Estimated Weight (lbs)
3/4 x 1/2	1.500	0.09
1 x 1/2	2.000	0.15
1 x 3/4	2.000	0.19
1-1/4 x 1/2	2.000	0.19
1-1/4 x 3/4	2.000	0.19
1-1/4 x 1	2.000	0.19
1-1/2 x 1/2	2.500	0.29
1-1/2 x 3/4	2.500	0.29
1-1/2 x 1	2.500	0.29
1-1/2 x 1-1/4	2.500	0.29
2 x 1/2	3.000	0.41
2 x 3/4	3.000	0.41
2 x 1	3.000	0.41
2 x 1-1/4	3.000	0.41
2 x 1-1/2	3.000	0.41
2-1/2 x 3/4	3.500	0.63
2-1/2 x 1	3.500	0.63
2-1/2 x 1-1/4	3.500	0.63
2-1/2 x 1-1/2	3.500	0.63
2-1/2 x 2	3.500	0.63
3 x 1	3.500	0.87
3 x 1-1/4	3.500	0.87
3 x 1-1/2	3.500	0.87
3 x 2	3.500	0.87
3 x 2-1/2	3.500	0.87
3-1/2 x 1-1/4	4.000	1.40
3-1/2 x 1-1/2	4.000	1.40
3-1/2 x 2	4.000	1.40
3-1/2 x 2-1/2	4.000	1.40
3-1/2 x 3	4.000	1.40

Class 200		
Nominal Pipe Size	H	Estimated Weight (lbs)
4 X 1-1/2	4.000	1.70
4 X 2	4.000	1.70
4 X 2-1/2	4.000	1.70
4 X 3	4.000	1.70
4 X 3-1/2	4.000	1.70
5 X 2-1/2	5.000	3.10
5 X 3	5.000	3.10
5 X 3-1/2	5.000	3.10
5 X 4	5.000	3.10
6 X 2	5.500	4.10
6 X 2-1/2	5.500	4.30
6 X 3	5.500	4.30
6 X 3-1/2	5.500	4.50
6 X 4	5.500	5.00
6 X 5	5.500	5.00
8 X 4	6.000	9.40
8 X 5	6.000	9.40
8 X 6	6.000	9.40
10 X 6	7.000	18.00
10 X 8	7.000	18.00
12 X 6	8.000	22.50
12 X 8	8.000	24.00
12 X 10	8.000	27.60
14 X 6	13.000	38.30
14 X 10	13.000	43.20
14 X 12	13.000	50.00
16 X 10	14.000	47.30
16 X 12	14.000	51.00
16 X 14	14.000	53.40



Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715

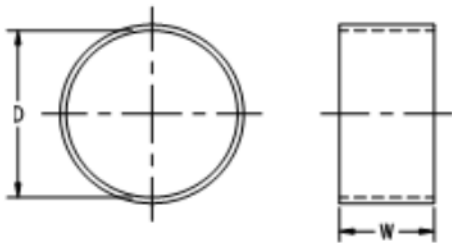
Dimension:
DWG 810-1385880 or similar



Class 200		
Nominal Pipe Size	H	Estimated Weight (lbs)
1-1/2 X 1/2	2.500	0.31
1-1/2 X 1	2.500	0.31
1-1/2 X 1-1/4	2.500	0.31
2 X 1/2	3.000	0.42
2 X 3/4	3.000	0.42
2 X 1	3.000	0.42
2 X 1-1/4	3.000	0.42
2 X 1-1/2	3.000	0.42
2-1/2 X 3/4	3.500	0.63
2-1/2 X 1	3.500	0.63
2-1/2 X 1-1/4	3.500	0.63
2-1/2 X 1-1/2	3.500	0.63
2-1/2 X 2	3.500	0.63
3 X 1	3.500	0.88
3 X 1-1/4	3.500	0.88
3 X 1-1/2	3.500	0.88
3 X 2	3.500	0.88
3 X 2-1/2	3.500	0.88
3-1/2 X 1-1/4	4.000	1.40
3-1/2 X 1-1/2	4.000	1.40
3-1/2 X 2	4.000	1.40
3-1/2 X 2-1/2	4.000	1.40
3-1/2 X 3	4.000	1.40

Class 200		
Nominal Pipe Size	H	Estimated Weight (lbs)
5 X 2-1/2	5.000	3.1
5 X 3	5.000	3.1
5 X 3-1/2	5.000	3.1
5 X 4	5.000	3.1
4 X 1-1/2	4.000	1.7
4 X 2	4.000	1.7
4 X 2-1/2	4.000	1.7
4 X 3	4.000	1.7
4 X 3-1/2	4.000	1.7
6 X 2	5.500	4.1
6 X 2-1/2	5.500	4.3
6 X 3	5.500	4.3
6 X 3-1/2	5.500	4.5
6 X 4	5.500	5.0
6 X 5	5.500	5.0
8 X 4	6.000	9.4
8 X 5	6.000	9.4
8 X 6	6.000	9.4
10 X 6	7.000	18.0
10 X 8	7.000	18.0
12 X 6	8.000	22.5
12 X 8	8.000	24.0
12 X 10	8.000	27.6

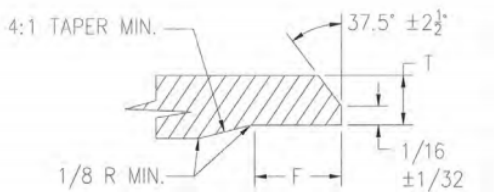
Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 200			
Nominal Pipe Size	W	D	Estimated Weight (lbs)
1/4	0.531	0.540	0.02
3/8	0.625	0.675	0.03
1/2	0.750	0.840	0.05
3/4	0.813	1.050	0.07
1	0.875	1.315	0.09
1 1/4	1.000	1.660	0.15
1 1/2	1.250	1.900	0.21
2	1.313	2.375	0.31
2 1/2	1.563	2.875	0.45
3	1.656	3.500	0.66
3 1/2	1.750	4.000	0.80
4	1.813	4.500	1.10
5	2.063	5.563	1.60
6	2.219	6.625	2.30
8	2.625	8.625	4.40
10	3.000	10.750	8.40
12	3.250	12.750	10.70

Weld End Preparation Detail

Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715



CL700 Butt Weld

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90° Long Radius Elbows	pg 27
45° Elbows	pg 28
Tees	pg 29
Tees, Reducing	pg 30
180° Return Bends	pg 32
Caps	pg 33
Concentric Reducers	pg 34
Eccentric Reducers	pg 35

Class 700			
Nominal inch	Maxium OD	Minimum WT T	Minimum Counterbore F
1/2	0.840	0.072	0.313
3/4	1.050	0.083	0.313
1	1.315	0.095	0.313
1 1/4	1.660	0.095	0.313
1 1/2	1.900	0.109	0.313
2	2.375	0.120	0.313
2 1/2	2.875	0.134	0.313
3	3.500	0.165	0.313
3 1/2	4.000	0.180	0.500
4	4.500	0.203	0.500
5	5.563	0.220	0.500
6	6.625	0.259	0.500
8	8.625	0.340	0.500
10	10.750	0.380	0.500
12	12.750	0.454	0.500
14	14.000	0.473	0.500
16	16.000	0.534	0.500

90° Short Radius Elbows

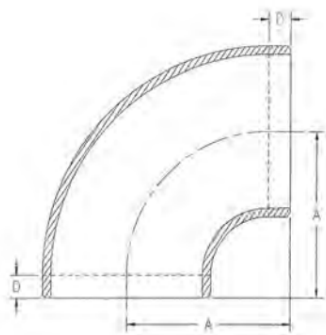


90° Long Radius Elbows

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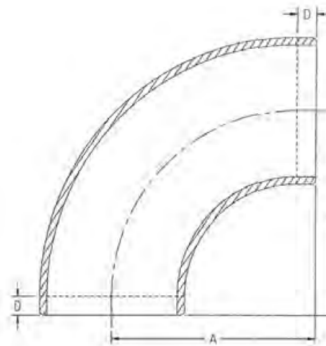
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Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 700			
Nominal Pipe Size	A	Tangent D	Estimated Weight (lbs)
1	1.313	0.313	0.22
1 1/4	1.563	0.313	0.32
1 1/2	1.813	0.313	0.56
2	2.313	0.313	0.90
2 1/2	2.813	0.313	1.73
3	3.313	0.313	2.95
3 1/2	4.000	0.500	5.11
4	4.500	0.500	7.26
5	5.500	0.500	12.70
6	6.500	0.500	22.80
8	8.500	0.500	60.90
10	10.500	0.500	99.90
12	12.500	0.500	128.00
14	14.500	0.500	151.30
16	16.500	0.500	224.30

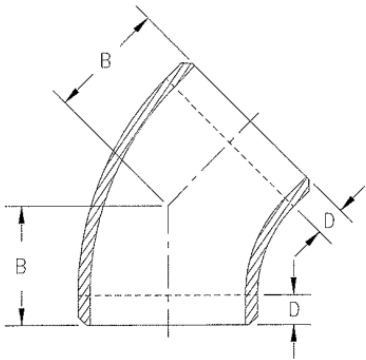
Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 700			
Nominal Pipe Size	A	Tangent D	Estimated Weight (lbs)
1/2	1.813	0.313	0.09
3/4	1.438	0.313	0.13
1	1.813	0.313	0.26
1 1/4	2.188	0.313	0.40
1 1/2	2.563	0.313	0.68
2	3.313	0.313	1.09
2 1/2	4.063	0.313	2.09
3	4.813	0.313	3.82
3 1/2	5.570	0.500	6.25
4	6.500	0.500	8.94
5	8.000	0.500	15.80
6	9.500	0.500	28.90
8	12.500	0.500	77.20
10	15.500	0.500	123.10
12	18.500	0.500	174.30
14	21.500	0.500	227.10
16	24.500	0.500	335.30

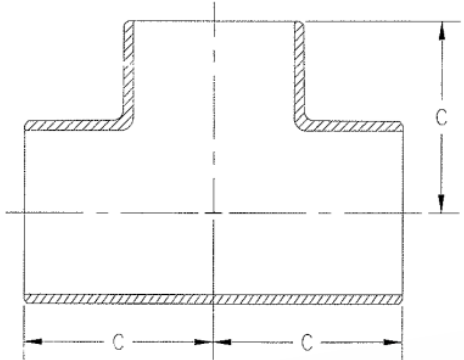


Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 700			
Nominal Pipe Size	B	Tangent D	Estimated Weight (lbs)
1/2	0.938	0.313	0.06
3/4	0.750	0.313	0.08
1	1.188	0.313	0.16
1 1/4	1.313	0.313	0.24
1 1/2	1.438	0.313	0.41
2	1.688	0.313	0.69
2 1/2	2.063	0.313	1.34
3	2.313	0.313	2.08
3 1/2	2.750	0.500	3.79
4	3.000	0.500	5.40
5	3.625	0.500	9.33
6	4.250	0.500	16.60
8	5.500	0.500	44.30
10	6.750	0.500	76.20
12	8.000	0.500	90.00
14	9.250	0.500	113.00
16	10.500	0.500	169.00

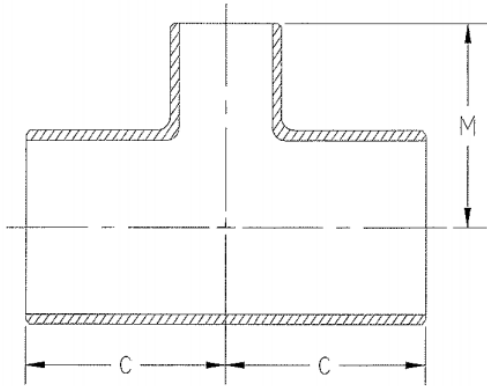
Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 700		
Nominal Pipe Size	C	Estimated Weight (lbs)
3/4	1.250	0.23
1	1.500	0.41
1 1/4	1.875	0.59
1 1/2	2.250	0.94
2	2.500	1.24
2 1/2	3.000	2.26
3	3.375	3.65
3 1/2	3.750	5.87
4	4.125	8.19
5	4.875	13.90
6	5.625	24.50
8	7.000	61.30
10	8.500	104.80
12	10.000	163.40
14	11.000	179.30
16	12.000	239.20

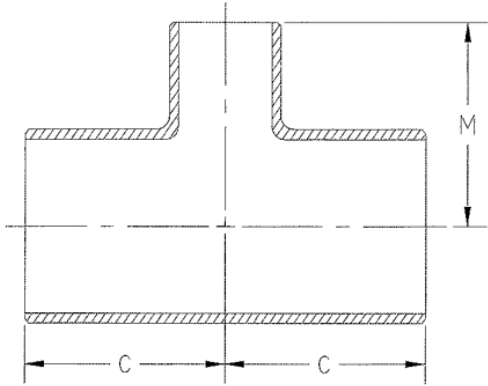


Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 700			
Nominal Pipe Size	C	M	Estimated Weight (lbs)
1 x 1/2	1.500	1.500	0.38
1 x 3/4	1.500	1.500	0.39
1 1/4 x 1/2	1.875	1.875	0.84
1 1/4 x 3/4	1.875	1.875	0.86
1 1/4 x 1/2	1.875	1.875	0.87
1 1/2 x 1/2	2.250	2.250	1.29
1 1/2 x 3/4	2.250	2.250	1.32
1 1/2 x 1	2.250	2.250	1.36
1 1/2 x 1 1/4	2.250	2.250	1.39
2 x 3/4	2.500	1.750	2.02
2 x 1	2.500	2.000	2.02
2 x 1 1/4	2.500	2.250	2.17
2 x 1-1/2	2.500	2.375	2.17
2-1/2 x 1	3.000	2.250	1.94
2-1/2 x 1-1/4	3.000	2.500	2.09
2-1/2 x 1-1/2	3.000	2.625	2.09
2-1/2 x 2	3.000	2.750	2.09
3 x 1-1/4	3.375	2.750	3.30
3 x 1-1/2	3.375	2.875	3.47
3 x 2	3.375	3.000	3.47
3 x 2-1/2	3.375	3.250	3.47
3-1/2 x 1-1/2	3.750	3.125	5.68
3-1/2 x 2	3.750	3.250	5.68
3-1/2 x 2-1/2	3.750	3.500	5.68
3-1/2 x 3	3.750	3.625	5.68
4 x 1-1/2	4.125	3.375	7.64
4 x 2	4.125	3.500	7.82
4 x 2-1/2	4.125	3.750	8.00
4 x 3	4.125	3.875	8.00
4 x 3-1/2	4.125	4.000	8.00
5 x 2	4.875	4.125	13.00
5 x 2-1/2	4.875	4.250	13.20
5 x 3	4.875	4.375	13.50
5 x 3-1/2	4.875	4.500	13.50
5 x 4	4.875	4.625	13.70

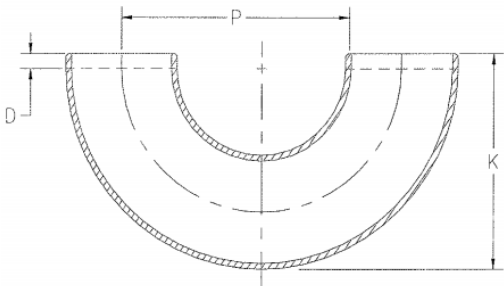
Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 700			
Nominal Pipe Size	C	M	Estimated Weight (lbs)
6 x 2-1/2	5.625	4.750	23.30
6 x 3	5.625	4.875	23.70
6 x 3-1/2	5.625	5.000	23.90
6 x 4	5.625	5.125	24.10
6 x 5	5.625	5.375	24.10
8 x 3-1/2	7.000	6.000	58.60
8 x 4	7.000	6.125	59.00
8 x 5	7.000	6.375	59.20
8 x 6	7.000	6.625	59.20
10 x 4	8.500	7.250	98.50
10 x 5	8.500	7.500	98.70
10 x 6	8.500	7.625	98.90
10 x 8	8.500	8.000	101.10
12 x 5	10.000	8.500	150.70
12 x 6	10.000	8.625	151.10
12 x 8	10.000	9.000	154.50
12 x 10	10.000	9.500	158.50
14 x 6	11.000	9.375	150.70
14 x 8	11.000	9.750	154.50
14 x 10	11.000	10.125	158.90
14 x 12	11.000	10.625	163.20
16 x 6	12.000	10.375	213.60
16 x 8	12.000	10.750	217.80
16 x 10	12.000	11.125	224.20
16 x 12	12.000	11.625	228.50
16 x 14	12.000	12.000	232.80

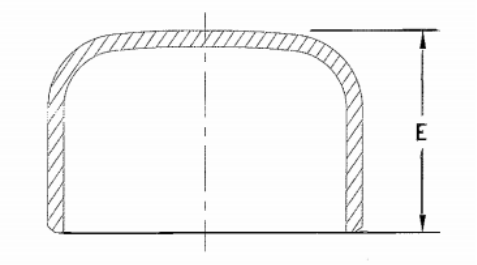


Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 700				
Nominal Pipe Size	P	K	Tangent D	Estimated Weight (lbs)
1	3.00	2.500	0.313	0.80
1 1/4	3.750	3.063	0.313	1.02
1 1/2	4.500	3.563	0.313	1.43
2	6.000	4.500	0.313	2.31
2 1/2	7.500	5.500	0.313	4.52
3	9.000	6.563	0.313	7.98
3 1/2	10.500	7.750	0.500	13.20
4	12.000	8.750	0.500	19.10
5	15.000	10.813	0.500	33.40
6	18.000	12.813	0.500	60.40
8	24.000	16.813	0.500	161.20
10	30.000	20.875	0.500	247.10
12	36.000	24.875	0.500	348.60
14	42.000	28.500	0.500	454.00
16	48.000	32.500	0.500	670.00

Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 700		
Nominal Pipe Size	E	Estimated Weight (lbs)
1	1.500	0.26
1 1/4	1.500	0.36
1 1/2	1.500	0.40
2	1.500	0.56
2 1/2	1.500	0.71
3	2.000	1.30
3 1/2	2.500	1.89
4	2.500	2.00
5	3.000	3.69
6	3.500	5.79
8	4.000	10.50
10	5.000	17.60
12	6.000	29.40
14	6.500	37.80
16	7.000	59.80

Concentric Reducers

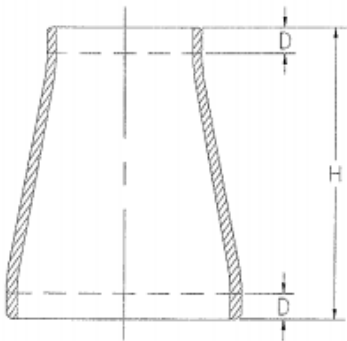


Eccentric Reducers

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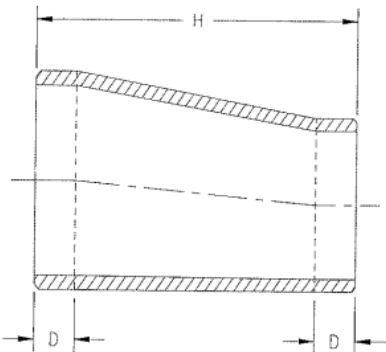
Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 700		
Nominal Pipe Size	H	Estimated Weight (lbs)
1 x 1/2	2.000	0.38
1 x 3/4	2.000	0.38
1-1/4 x 1/2	2.000	0.41
1-1/4 x 3/4	2.000	0.41
1-1/4 x 1	2.000	0.41
1-1/2 x 1/2	2.500	0.47
1-1/2 x 3/4	2.500	0.47
1-1/2 x 1	2.500	0.47
1-1/2 x 1-1/4	2.500	0.47
2 x 3/4	3.000	0.60
2 x 1	3.000	0.60
2 x 1-1/4	3.000	0.60
2 x 1-1/2	3.000	0.60
2-1/2 x 1	3.500	1.01
2-1/2 x 1-1/4	3.500	1.01
2-1/2 x 1-1/2	3.500	1.01
2-1/2 x 2	3.500	1.01
3 x 1-1/4	3.500	1.52
3 x 1-1/2	3.500	1.52
3 x 2	3.500	1.52
3 x 2-1/2	3.500	1.52
3-1/2 x 1-1/4	4.000	2.65
3-1/2 x 1-1/2	4.000	2.65
3-1/2 x 2	4.000	2.65
3-1/2 x 2-1/2	4.000	2.65
3-1/2 x 3	4.000	2.65
4 x 1-1/2	4.000	3.16
4 x 2	4.000	3.16
4 x 2-1/2	4.000	3.16
4 x 3	4.000	3.16
4 x 3-1/2	4.000	3.16
5 x 2	5.000	5.45
5 x 2-1/2	5.000	5.45
5 x 3	5.000	5.45
5 x 3-1/2	5.000	5.45
5 x 4	5.000	5.45

Class 700		
Nominal Pipe Size	C	Estimated Weight (lbs)
6 x 2-1/2	5.500	8.31
6 x 3	5.500	8.31
6 x 3-1/2	5.500	8.69
6 x 4	5.500	9.66
6 x 5	5.500	9.66
8 x 3-1/2	6.000	21.50
8 x 4	6.000	21.50
8 x 5	6.000	21.50
8 x 6	6.000	21.50
10 x 4	7.000	36.50
10 x 5	7.000	36.50
10 x 6	7.000	36.50
10 x 8	7.000	36.50
12 x 5	8.000	39.95
12 x 6	8.000	40.80
12 x 8	8.000	43.50
12 x 10	8.000	50.10
14 x 6	13.000	69.50
14 x 8	13.000	74.20
14 x 10	13.000	78.40
14 x 12	13.000	94.60
16 x 8	14.000	93.90
16 x 10	14.000	101.00
16 x 12	14.000	108.90
16 x 14	14.000	114.00

Material:
NAVINIC 10® CuNi10Fe1Mn alloy 706
NAVINIC 30® CuNi30Fe1Mn alloy 715
Dimension: DWG 810-1385880 or similar



Class 700		
Nominal Pipe Size	H	Estimated Weight (lbs)
1 x 1/2	2.000	0.38
1 x 3/4	2.000	0.38
1-1/4 x 1/2	2.000	0.41
1-1/4 x 3/4	2.000	0.41
1-1/4 x 1	2.000	0.41
1-1/2 x 1/2	2.500	0.47
1-1/2 x 3/4	2.500	0.47
1-1/2 x 1	2.500	0.47
1-1/2 x 1-1/4	2.500	0.47
2 x 3/4	3.000	0.60
2 x 1	3.000	0.60
2 x 1-1/4	3.000	0.60
2 x 1-1/2	3.000	0.60
2-1/2 x 1	3.500	1.01
2-1/2 x 1-1/4	3.500	1.01
2-1/2 x 1-1/2	3.500	1.01
2-1/2 x 2	3.500	1.01
3 x 1-1/4	3.500	1.52
3 x 1-1/2	3.500	1.52
3 x 2	3.500	1.52
3 x 2-1/2	3.500	1.52
3-1/2 x 1-1/4	4.000	2.65
3-1/2 x 1-1/2	4.000	2.65
3-1/2 x 2	4.000	2.65
3-1/2 x 2-1/2	4.000	2.65
3-1/2 x 3	4.000	2.65
4 x 1-1/2	4.000	3.16
4 x 2	4.000	3.16
4 x 2-1/2	4.000	3.16
4 x 3	4.000	3.16
4 x 3-1/2	4.000	3.16
5 x 2	5.000	5.45
5 x 2-1/2	5.000	5.45
5 x 3	5.000	5.45
5 x 3-1/2	5.000	5.45
5 x 4	5.000	5.45

Class 700		
Nominal Pipe Size	C	Estimated Weight (lbs)
6 x 2-1/2	5.500	8.31
6 x 3	5.500	8.31
6 x 3-1/2	5.500	8.69
6 x 4	5.500	9.66
6 x 5	5.500	9.66
8 x 3-1/2	6.000	21.50
8 x 4	6.000	21.50
8 x 5	6.000	21.50
8 x 6	6.000	21.50
10 x 4	7.000	36.50
10 x 5	7.000	36.50
10 x 6	7.000	36.50
10 x 8	7.000	36.50
12 x 5	8.000	39.95
12 x 6	8.000	40.80
12 x 8	8.000	43.50
12 x 10	8.000	50.10
14 x 6	13.000	69.50
14 x 8	13.000	74.20
14 x 10	13.000	78.40
14 x 12	13.000	94.60
16 x 8	14.000	93.90
16 x 10	14.000	101.00
16 x 12	14.000	108.90
16 x 14	14.000	114.00



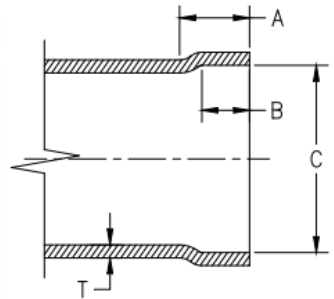
BELL END FITTINGS

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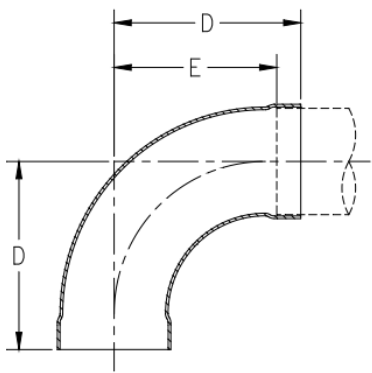


Bell End Fittings
Socket Detail
DWG 5959353
MSS SP-119



Nominal inch	A	B	T	C
1/4	0.620	0.380	0.065	0.570
3/8	0.620	0.380	0.065	0.700
1/2	0.750	0.380	0.065	0.870
3/4	0.750	0.380	0.065	1.080
1	0.810	0.440	0.065	1.350
1 1/4	1.000	0.500	0.072	1.690
1 1/2	1.120	0.620	0.072	1.930
2	1.120	0.620	0.083	2.410
2 1/2	1.500	0.810	0.083	2.910
3	1.500	0.810	0.095	3.530
4	1.620	0.880	0.109	4.530
5	1.750	1.000	0.125	5.600
6	1.810	1.060	0.134	6.660
8	2.190	1.310	0.151	8.660
10	2.500	1.500	0.187	10.790
12	2.620	1.620	0.250	12.790

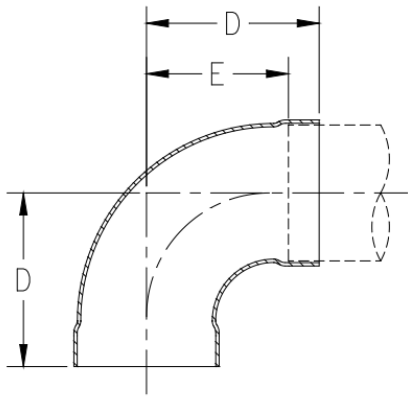
Bell End Fittings
90° LR Elbows
DWG 5959353
MSS SP-119



Nominal inch	D	E	Est. Weight
1/4	1.88	1.56	0.05
3/8	1.94	1.62	0.06
1/2	2.25	1.94	0.08
3/4	1.91	1.59	0.11
1	2.38	2.00	0.19
1 1/4	2.88	2.44	0.33
1 1/2	3.50	2.94	0.49
2	4.28	3.72	0.83
2 1/2	5.38	4.62	1.43
3	6.17	5.41	2.42
4	7.78	6.97	5.28
5	9.53	8.59	9.90
6	11.17	10.17	16.50
8	14.62	13.38	36.96
10	18.00	16.56	66.88
12	21.25	19.69	105.60

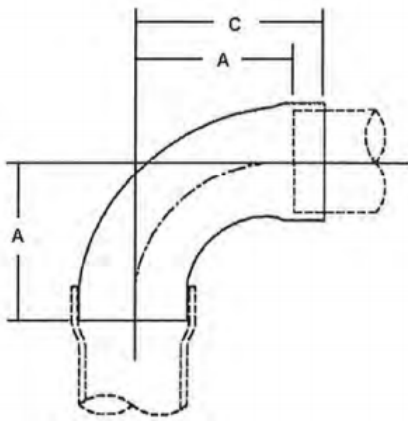


Bell End Fittings
90° SR Elbows
MSS SP-119



Nominal inch	D	E	Est. Weight
1/4	1.75	1.37	0.11
1 1/4	2.00	1.56	0.26
1 1/2	2.62	2.06	1.00
2	3.12	2.56	1.75
2 1/2	4.00	3.25	3.00
3	4.50	3.70	5.00
4	5.62	4.80	8.00
5	6.75	5.81	10.06
6	7.81	6.81	19.00
8	10.19	8.94	29.15
10	12.50	11.06	54.12
12	14.62	13.06	77.55

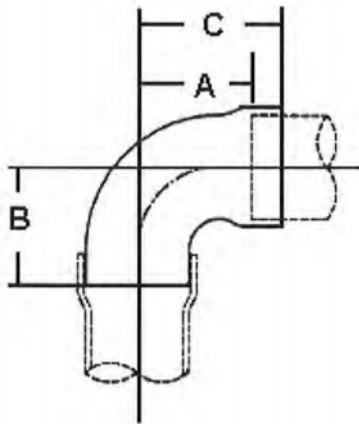
Bell End Fittings
90° LR Street Elbows
MSS SP-119



Nominal inch	C	A	Est. Weight
1/4	1.59	1.28	0.13
3/8	1.94	1.62	0.17
1/2	2.25	1.94	0.25
3/4	1.91	1.59	0.34
1	2.38	2.00	0.53
1 1/4	2.88	2.44	0.76
1 1/2	3.50	2.94	0.96
2	4.28	3.72	1.81
2 1/2	5.30	4.62	2.65
3	6.17	5.41	4.54
4	7.78	6.67	8.55
5	9.53	8.59	13.32
6	11.17	10.17	19.90
8	14.62	13.38	38.50
10	18.00	16.56	66.88
12	21.25	19.69	105.60

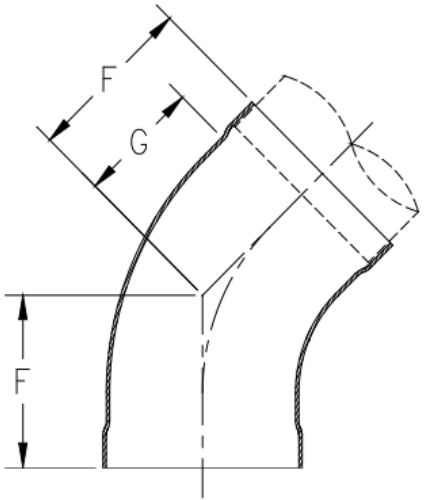


Bell End Fittings
90° SR Street Elbows
DWG 802-5959353



Nominal inch	C	A	B	Est. Weight
1	1.75	1.37	1.50	0.57
1 1/4	2.00	1.56	1.81	1.00
1 1/2	2.62	2.06	2.19	1.10
2	3.12	2.56	2.72	2.00
2 1/2	4.00	3.25	3.38	2.50
3	4.50	3.75	3.91	4.31
4	5.62	4.81	4.98	8.00
5	6.75	5.81	6.09	13.75
6	7.81	6.81	7.17	21.00
8	10.19	8.94	9.38	42.00
10	12.50	11.06	11.56	54.12
12	14.62	13.06	13.69	77.55

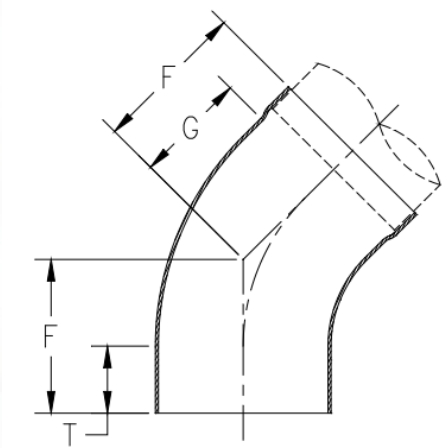
Bell End Fittings
45° Elbows
DWG 5959353
MSS SP-119



Nominal inch	F	G	Est. Weight
1/4	1.02	0.70	0.04
3/8	1.20	0.89	0.05
1/2	1.38	1.06	0.06
3/4	1.25	0.94	0.07
1	1.50	1.12	0.12
1 1/4	1.78	1.34	0.19
1 1/2	2.19	1.62	0.29
2	2.53	1.97	0.52
2 1/2	3.19	2.44	0.91
3	3.52	2.76	1.32
4	4.27	3.45	2.20
5	5.14	4.20	3.19
6	5.19	4.91	9.46
8	7.59	6.34	21.23
10	9.22	7.78	41.25
12	10.70	9.14	49.50

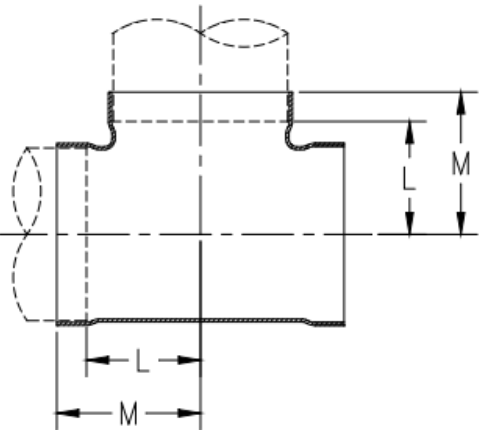


Bell End Fittings
45° LR Street Elbows
DWG 802-5959353



Nominal inch	F	G	T	Est. Weight
1/4	1.24	0.92	0.62	0.09
3/8	1.24	0.92	0.62	0.11
1/2	1.38	1.06	0.75	0.17
3/4	1.38	1.06	0.75	0.24
1	1.50	1.12	0.88	0.35
1 1/4	1.78	1.34	1.00	0.51
1 1/2	2.19	1.62	1.25	0.67
2	2.53	1.97	1.28	1.43
2 1/2	3.19	2.44	1.63	2.00
3	3.52	2.76	1.67	4.88
4	4.27	3.45	1.78	7.00
5	5.14	4.20	2.03	10.18
6	5.91	4.91	2.17	8.70
8	7.59	6.34	2.62	28.08
10	9.22	7.78	3.00	41.25
12	10.70	9.14	3.25	49.50

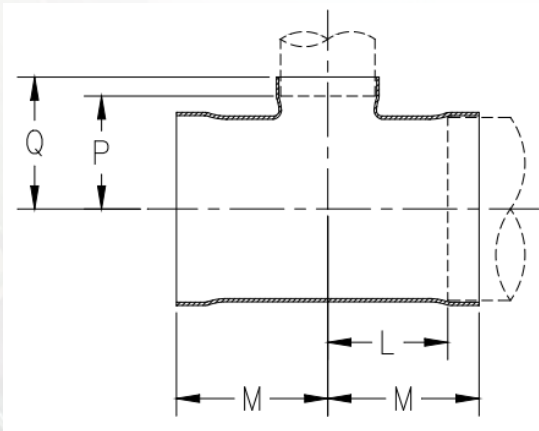
Bell End Fittings
Straight Tees
DWG 5959353
MSS SP-119



Nominal inch	M	L	Est. Weight
1/4	0.69	0.38	0.05
3/8	0.91	0.59	0.07
1/2	1.09	0.78	0.19
3/4	1.25	0.94	0.19
1	1.50	1.12	0.30
1 1/4	1.88	1.44	0.49
1 1/2	2.25	1.69	1.38
2	2.50	1.94	1.50
2 1/2	3.00	2.25	2.50
3	3.38	2.62	3.88
4	4.12	3.31	6.00
5	4.88	3.94	8.69
6	5.62	4.62	16.00
8	7.00	5.75	24.16
10	8.50	7.06	56.76
12	10.00	8.43	99.00

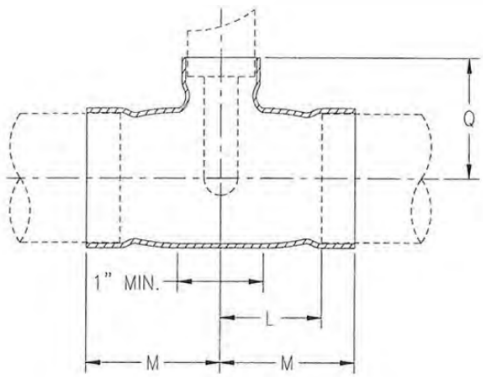


Bell End Fittings
Reducing Tees
DWG 5959353
MSS SP-119



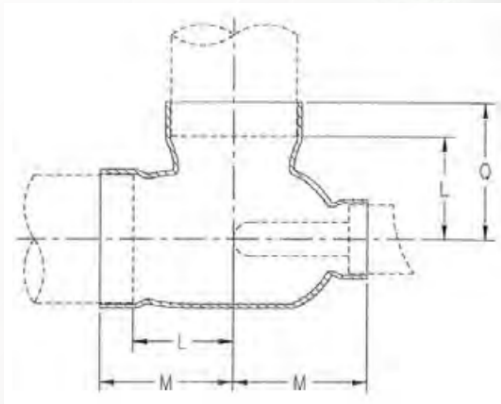
Nominal inch	L	M	P	Q
2-1/2 x 2-1/2 x 1	2.25	3.00	1.87	2.25
2-1/2 x 2-1/2 x 1-1/4	2.25	3.00	2.06	2.50
2-1/2 x 2-1/2 x 1-1/2	2.25	3.00	2.06	2.62
2-1/2 x 2-1/2 x 2	2.25	3.00	2.19	2.75
3 x 3 x 1-1/4	2.62	3.38	2.31	2.75
3 x 3 x 1-1/2	2.62	3.38	2.32	2.88
3 x 3 x 2	2.62	3.38	2.44	3.00
3 x 3 x 2-1/2	2.62	3.38	2.50	3.25
4 x 4 x 1-1/2	3.31	4.12	2.82	3.38
4 x 4 x 2	3.31	4.12	2.94	3.50
4 x 4 x 2-1/2	3.31	4.12	3.00	3.75
4 x 4 x 3	3.31	4.12	3.13	3.88
5 x 5 x 2	3.94	4.88	3.56	4.12
5 x 5 x 2-1/2	3.94	4.88	3.50	4.25
5 x 5 x 3	3.94	4.88	3.63	4.38
5 x 5 x 4	3.94	4.88	3.80	4.62
6 x 6 x 2-1/2	4.62	5.62	4.00	4.75
6 x 6 x 3	4.62	5.62	4.13	4.88
6 x 6 x 4	4.62	5.62	4.30	5.12
6 x 6 x 5	4.62	5.62	4.44	5.38
8 x 8 x 4	5.75	7.00	5.30	6.12
8 x 8 x 5	5.75	7.00	5.44	6.38
8 x 8 x 6	5.75	7.00	5.62	6.62
10 x 10 x 4	7.06	8.50	6.43	7.25
10 x 10 x 5	7.06	8.50	6.50	7.50
10 x 10 x 6	7.06	8.50	6.62	7.62
10 x 10 x 8	7.06	8.50	6.75	8.00
12 x 12 x 5	8.43	10.00	7.56	8.50
12 x 12 x 6	8.43	10.00	7.62	8.62
12 x 12 x 8	8.43	10.00	7.75	9.00
12 x 12 x 10	8.43	10.00	8.06	9.50

Bell End Fittings
Thermowell Tees
Angle Thermowell Tees
DWG 5959353
MSS SP-119



Straight Thermowell Tees

Nominal inch	L	M	Q
1/2 x 1/2 x 3/4 1-1/2 Body NPS	2.18	2.50	2.19
3/4 x 3/4 x 3/4 1-1/2 Body NPS	2.18	2.50	2.19
1 x 1 x 3/4 1-1/2 Body NPS	2.12	2.50	2.19
1-1/4 x 1-1/4 x 3/4 2 Body NPS	2.56	3.00	2.38
1-1/2 x 1-1/2 x 3/4 2 Body NPS	2.44	3.00	2.38



Angle Thermowell Tees

Nominal inch	L	M	Q
1/2 x 3/4 x 1/2 1-1/2 Body NPS	1.88	2.50	2.19
3/4 x 3/4 x 3/4 1-1/2 Body NPS	1.88	2.50	2.19
1 x 3/4 x 1 1-1/2 Body NPS	1.82	2.50	2.19
1-1/4 x 3/4 x 1-1/4 2 Body NPS	1.94	2.50	2.38

Concentric Reducers FxF

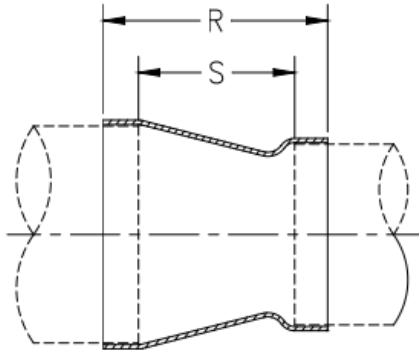


Concentric Reducers MxF

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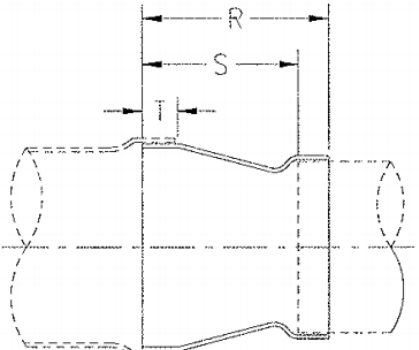
Bell End Fittings
Concentric Reducers F x F
DWG 802-5959353



Nominal inch	R	S	Est Weight
3/8 x 1/4	1.84	1.22	0.09
1/2 x 1/4	1.90	1.27	0.12
1/2 x 3/8	1.90	1.27	0.12
3/4 x 1/4	1.90	1.27	0.15
3/4 x 3/8	1.90	1.27	0.15
3/4 x 1/2	1.90	1.27	0.19
1 x 1/4	2.60	1.91	0.26
1 x 3/8	2.60	1.91	0.26
1 x 1/2	2.60	1.91	0.30
1 x 3/4	2.60	1.91	0.30
1-1/4 x 1/4	2.75	2.00	0.36
1-1/4 x 3/8	2.75	2.00	0.36
1-1/4 x 1/2	2.75	2.00	0.36
1-1/4 x 3/4	2.75	2.00	0.36
1-1/4 x 1	2.75	1.94	0.40
1-1/2 x 1/4	3.37	2.50	0.50
1-1/2 x 3/8	3.37	2.50	0.50
1-1/2 x 1/2	3.37	2.50	0.50
1-1/2 x 3/4	3.37	2.50	0.50
1-1/2 x 1	3.37	2.44	0.50
1-1/2 x 1-1/4	3.37	2.37	0.51
2 x 1/2	3.84	2.97	0.81
2 x 3/4	3.84	2.97	0.88
2 x 1	3.84	2.90	1.00

Nominal inch	R	S	Est Weight
2 x 1-1/4	3.84	2.84	1.00
2 x 1-1/2	3.84	2.72	1.00
2-1/2 x 1-1/4	4.53	3.34	1.25
2-1/2 x 1-1/2	4.53	3.22	1.19
2-1/2 x 2	4.53	3.22	1.28
3 x 1-1/2	4.72	3.40	1.69
3 x 2	4.72	3.40	2.00
3 x 2-1/2	4.72	3.22	1.88
4 x 2	5.25	3.87	3.50
4 x 2-1/2	5.25	3.69	2.93
4 x 3	5.25	3.69	3.00
5 x 2-1/2	6.32	4.63	5.00
5 x 3	6.32	4.63	5.00
5 x 4	6.32	4.57	6.00
6 x 3	6.80	5.05	8.00
6 x 4	6.80	4.99	8.00
6 x 5	6.80	4.86	6.00
8 x 4	7.45	5.39	13.00
8 x 5	7.45	5.26	13.00
8 x 6	7.45	5.20	13.00
10 x 5	8.75	6.38	22.12
10 x 6	8.75	6.32	22.12
10 x 8	8.75	6.06	25.00
12 x 6	9.87	7.31	28.95
12 x 8	9.87	7.06	26.00
12 x 10	9.87	6.87	32.10

Bell End Fittings
Concentric Reducers M x F
DWG 802-5959353

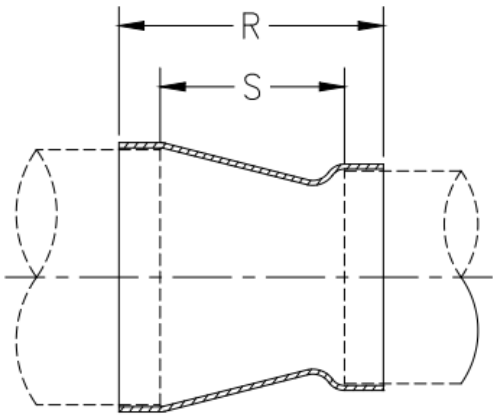


Nominal inch	R	S	T
3/8 x 1/4	1.84	1.52	0.38
1/2 x 1/4	1.90	1.58	0.44
1/2 x 3/8	1.90	1.58	0.44
3/4 x 1/4	1.90	1.58	0.47
3/4 x 3/8	1.90	1.58	0.47
3/4 x 1/2	1.90	1.58	0.47
1 x 1/4	2.60	2.28	0.50
1 x 3/8	2.60	2.28	0.50
1 x 1/2	2.60	2.28	0.50
1 x 3/4	2.60	2.28	0.50
1-1/4 x 1/4	2.75	2.43	0.56
1-1/4 x 3/8	2.75	2.43	0.56
1-1/4 x 1/2	2.75	2.43	0.56
1-1/4 x 3/4	2.75	2.43	0.56
1-1/4 x 1	2.75	2.37	0.56
1-1/2 x 1/4	3.37	3.05	0.69
1-1/2 x 3/8	3.37	3.05	0.69
1-1/2 x 1/2	3.37	3.05	0.69
1-1/2 x 3/4	3.37	3.05	0.69
1-1/2 x 1	3.37	3.00	0.69
1-1/2 x 1-1/4	3.37	2.93	0.69
2 x 1/2	3.84	3.52	0.72
2 x 3/4	3.84	3.52	0.72
2 x 1	3.84	3.46	0.72

Nominal inch	R	S	T
2 x 1-1/4	3.84	3.40	0.72
2 x 1-1/2	3.84	3.28	0.88
2-1/2 x 1-1/4	4.53	4.09	0.88
2-1/2 x 1-1/2	4.53	3.97	0.88
2-1/2 x 2	4.53	3.97	0.88
3 x 1-1/2	4.72	4.16	0.91
3 x 2	4.72	4.16	0.91
3 x 2-1/2	4.72	3.97	0.91
4 x 2	5.25	4.69	0.97
4 x 2-1/2	5.25	4.50	0.97
4 x 3	5.25	4.50	0.97
5 x 2-1/2	6.32	5.57	1.09
5 x 3	6.32	5.57	1.09
5 x 4	6.32	5.50	1.09
6 x 3	6.80	6.05	1.17
6 x 4	6.80	5.98	1.17
6 x 5	6.80	5.86	1.17
8 x 4	7.45	6.63	1.38
8 x 5	7.45	6.51	1.38
8 x 6	7.45	6.45	1.38
10 x 5	8.75	7.81	1.56
10 x 6	8.75	7.75	1.56
10 x 8	8.75	7.50	1.56
12 x 6	9.87	8.87	1.69
12 x 8	9.87	8.62	1.69
12 x 10	9.87	8.43	1.69



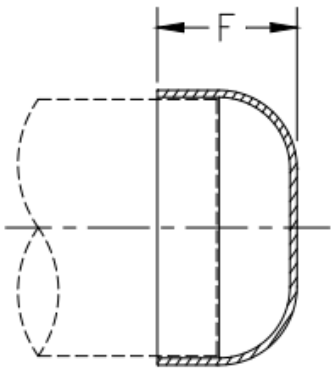
Bell End Fitting
Eccentric Reducers F x F
DWG 802-5959353



Nominal inch	R	S
3/8 x 1/4	1.84	1.22
1/2 x 1/4	1.90	1.27
1/2 x 3/8	1.90	1.27
3/4 x 1/4	1.90	1.27
3/4 x 3/8	1.90	1.27
3/4 x 1/2	1.90	1.27
1 x 1/4	2.60	1.91
1 x 3/8	2.60	1.91
1 x 1/2	2.60	1.91
1 x 3/4	2.60	1.91
1-1/4 x 1/4	2.75	2.00
1-1/4 x 3/8	2.75	2.00
1-1/4 x 1/2	2.75	2.00
1-1/4 x 3/4	2.75	2.00
1-1/4 x 1	2.75	1.94
1-1/2 x 1/4	3.37	2.50
1-1/2 x 3/8	3.37	2.50
1-1/2 x 1/2	3.37	2.50
1-1/2 x 3/4	3.37	2.50
1-1/2 x 1	3.37	2.44
1-1/2 x 1-1/4	3.37	2.37
2 x 1/2	3.84	2.97
2 x 3/4	3.84	2.97
2 x 1	3.84	2.90

Nominal inch	R	S
2 x 1-1/4	3.84	2.84
2 x 1-1/2	3.84	2.72
2-1/2 x 1-1/4	4.53	3.34
2-1/2 x 1-1/2	4.53	3.22
2-1/2 x 2	4.53	3.22
3 x 1-1/2	4.72	3.40
3 x 2	4.72	3.40
3 x 2-1/2	4.72	3.22
4 x 2	5.25	3.87
4 x 2-1/2	5.25	3.69
4 x 3	5.25	3.69
5 x 2-1/2	6.32	4.63
5 x 3	6.32	4.63
5 x 4	6.32	4.57
6 x 3	6.80	5.05
6 x 4	6.80	4.99
6 x 5	6.80	4.86
8 x 4	7.45	5.39
8 x 5	7.45	5.26
8 x 6	7.45	5.20
10 x 5	8.75	6.38
10 x 6	8.75	6.32
10 x 8	8.75	6.06
12 x 6	9.87	7.31
12 x 8	9.87	7.06
12 x 10	9.87	6.87

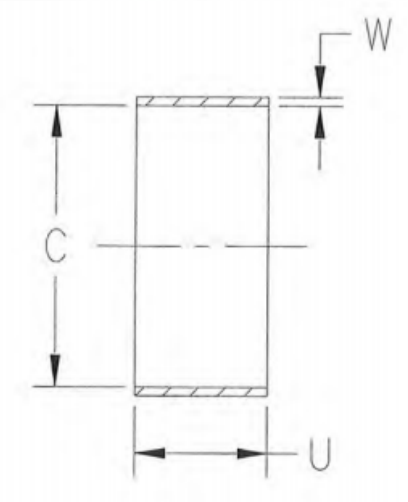
Bell End Fittings
Pipe Caps
DWG 5959353
MSS SP-119



Nominal inch	F	Est. Weight
1/4	0.85	0.06
3/8	1.00	0.08
1/2	1.19	0.14
3/4	1.19	0.14
1	1.44	0.28
1 1/4	1.44	0.28
1 1/2	1.44	0.58
2	1.44	0.25
2 1/2	1.44	0.56
3	1.19	0.84
4	2.41	1.74
5	2.91	2.31
6	3.39	6.75
8	3.39	5.06
10	4.94	9.57
12	5.93	17.82

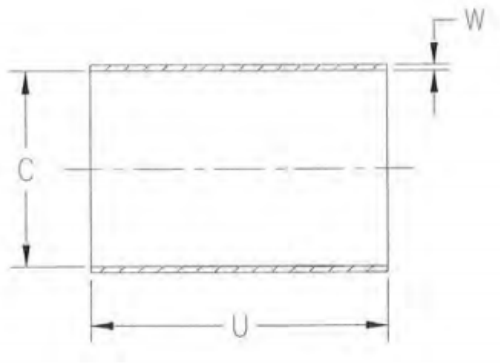


Bell End Fittings
Standard Couplings
DWG 5959353
MSS SP-119



Nominal inch	C	U	W
1/4	0.57	0.88	0.07
3/8	0.70	0.88	0.07
1/2	0.87	0.88	0.07
3/4	1.08	0.88	0.07
1	1.35	1.00	0.07
1 1/4	1.69	1.12	0.08
1 1/2	1.93	1.36	0.08
2	2.41	1.36	0.09
2 1/2	2.91	1.74	0.09
3	3.53	1.74	0.10
3 1/2	4.00	1.75	0.11
4	4.53	1.88	0.12
5	5.60	2.12	0.14
6	6.66	2.24	0.15
8	8.66	2.74	0.16
10	10.79	3.12	0.20
12	12.79	3.36	0.27

Bell End Fittings
Closure Couplings
DWG 5959353
MSS SP-119



Nominal inch	C	U	W
1/4	0.57	5.00	0.07
3/8	0.70	5.00	0.07
1/2	0.87	5.00	0.07
3/4	1.08	5.50	0.07
1	1.35	5.50	0.07
1 1/4	1.69	5.50	0.08
1 1/2	1.93	5.50	0.08
2	2.41	5.50	0.09
2 1/2	2.91	5.50	0.09
3	3.53	5.50	0.10
3 1/2	4.00	6.00	0.11
4	4.53	6.00	0.12
5	5.60	6.00	0.14
6	6.66	6.00	0.15
8	8.66	6.00	0.16
10	10.79	6.00	0.20
12	12.79	6.00	0.27



FLANGES

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150 PSI Navy Socket Weld

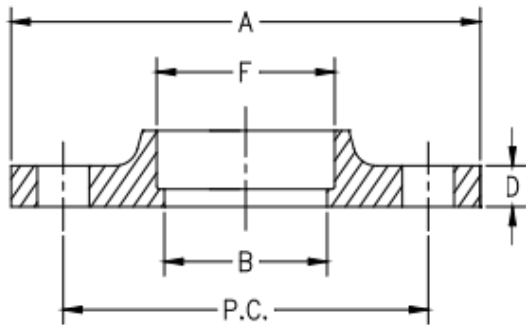


150 PSI Navy Slip-On

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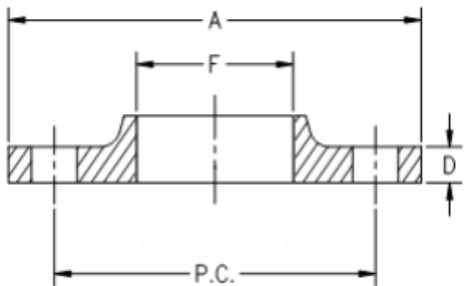
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Navy Flanges
150 PSI
Socket Weld
DWG 810-4715319
MIL-F-20042



Nominal inch	A	B	D	F	No. Holes	Hole Dia.	P.C.	Est. Weight
1/4	3.250	0.410	0.375	0.580	3	9/16	2.125	0.80
3/8	3.375	0.545	0.375	0.715	3	9/16	2.250	1.00
1/2	3.563	0.710	0.375	0.880	3	9/16	2.438	1.30
3/4	3.813	0.906	0.438	1.090	4	9/16	2.688	1.80
1	4.250	1.171	0.438	1.355	4	9/16	3.125	2.00
1 1/4	4.500	1.516	0.438	1.700	4	9/16	3.375	2.25
1 1/2	5.063	1.756	0.438	1.950	6	9/16	3.938	2.75
2	5.563	2.240	0.438	2.411	6	9/16	4.438	3.00
2 1/2	6.125	2.710	0.500	2.913	6	9/16	5.000	4.00
3	6.625	3.310	0.500	3.543	8	9/16	5.500	4.50
3 1/2	7.188	3.810	0.500	4.054	8	9/16	6.063	5.00
4	7.688	4.280	0.500	4.552	8	9/16	6.563	5.80
5	9.063	5.320	0.563	5.620	10	11/16	7.813	8.50
6	10.125	6.360	0.563	6.682	12	11/16	8.875	10.00
8	12.375	8.330	0.625	8.682	14	11/16	11.063	17.00
10	15.000	10.380	0.688	10.807	15	13/16	13.438	22.50
12	17.625	12.250	0.750	12.807	18	13/16	16.063	32.50

Navy Flanges
150 PSI
Slip-On
DWG 810-4715319
MIL-F-20042



Nominal inch	A	D	F	No. Holes	Hole Dia.	P.C.	Est. Weight
1/4	3.250	0.375	0.580	3	9/16	2.125	0.80
3/8	3.375	0.375	0.715	3	9/16	2.250	0.90
1/2	3.563	0.375	0.880	3	9/16	2.438	1.00
3/4	3.813	0.438	1.090	4	9/16	2.688	1.30
1	4.250	0.438	1.355	4	9/16	3.125	1.60
1 1/4	4.500	0.438	1.700	4	9/16	3.375	1.80
1 1/2	5.063	0.438	1.950	6	9/16	3.938	2.20
2	5.563	0.438	2.411	6	9/16	4.438	2.650
2 1/2	6.125	0.500	2.913	6	9/16	5.000	3.40
3	6.625	0.500	3.543	8	9/16	5.500	3.70
3 1/2	7.188	0.500	4.054	8	9/16	6.063	4.10
4	7.688	0.500	4.552	8	9/16	6.563	4.50
5	9.063	0.563	5.620	10	11/16	7.813	6.50
6	10.125	0.563	6.682	12	11/16	8.875	7.50
8	12.375	0.625	8.682	14	11/16	11.063	11.30
10	15.000	0.688	10.807	15	13/16	13.438	17.20
12	17.625	0.750	12.807	18	13/16	16.063	25.60

250 PSI Navy Socket Weld

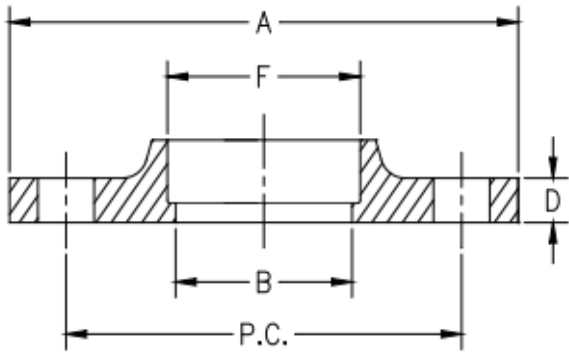


250 PSI Navy Slip-On

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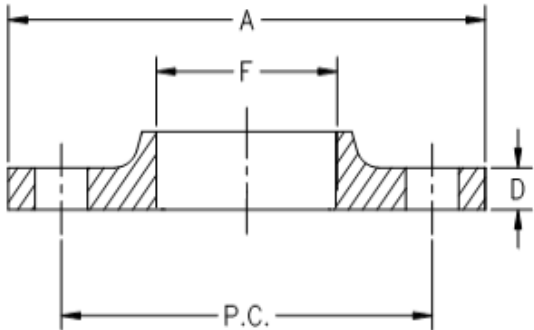
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Navy Flanges
250 PSI
Socket Weld
DWG 810-4715319
MIL-F-20042



Nominal inch	A	B	D	F	No. Holes	Hole Dia.	P.C.	Est. Weight
1/4	3.250	0.410	0.688	0.580	3	9/16	2.125	1.40
3/8	3.375	0.545	0.688	0.715	3	9/16	2.250	1.80
1/2	3.563	0.710	0.688	0.880	3	9/16	2.438	2.20
3/4	3.813	0.906	0.688	1.090	4	9/16	2.688	2.50
1	4.250	1.171	0.750	1.355	4	9/16	3.125	3.00
1 1/4	4.500	1.516	0.813	1.700	4	9/16	3.375	3.50
1 1/2	5.063	1.756	0.813	1.950	6	9/16	3.938	4.50
2	5.563	2.240	0.813	2.411	6	9/16	4.438	5.00
2 1/2	6.125	2.710	0.938	2.913	6	9/16	5.000	6.50
3	6.625	3.310	0.938	3.543	8	9/16	5.500	7.20
3 1/2	7.188	3.810	1.000	4.054	8	9/16	6.063	9.00
4	7.688	4.280	1.000	4.552	8	9/16	6.563	10.50
5	9.063	5.320	1.063	5.620	10	11/16	7.813	15.30
6	10.125	6.360	1.188	6.682	12	11/16	8.875	20.50
8	12.375	8.330	1.313	8.682	14	11/16	11.063	30.00
10	15.000	10.380	1.438	10.807	15	13/16	13.438	47.50
12	17.625	12.250	1.500	12.807	18	13/16	16.063	67.00

Navy Flanges
250 PSI
Slip-On
DWG 801-4715319
MIL-F-20042



Nominal inch	A	D	F	No. Holes	Hole Dia.	P.C.	Est. Weight
1/4	3.250	0.688	0.545	3	9/16	2.125	1.60
3/8	3.375	0.688	0.680	3	9/16	2.250	1.70
1/2	3.563	0.688	0.845	3	9/16	2.438	1.90
3/4	3.813	0.688	1.055	4	9/16	2.688	2.10
1	4.250	0.750	1.320	4	9/16	3.125	2.80
1 1/4	4.500	0.813	1.665	4	9/16	3.375	3.30
1 1/2	5.063	0.813	1.905	6	9/16	3.938	4.10
2	5.563	0.813	2.380	6	9/16	4.438	4.60
2 1/2	6.125	0.938	2.880	6	9/16	5.000	6.20
3	6.625	0.938	3.505	8	9/16	5.500	6.60
3 1/2	7.188	1.000	4.005	8	9/16	6.063	7.90
4	7.688	1.000	4.505	8	9/16	6.563	8.80
5	9.063	1.063	5.568	10	11/16	7.813	12.40
6	10.125	1.188	6.630	12	11/16	8.875	15.70
8	12.375	1.313	8.630	14	11/16	11.063	23.70
10	15.000	1.438	10.755	15	13/16	13.438	35.90
12	17.625	1.500	12.755	18	13/16	16.063	51.30

200 PSI Navy Socket Weld

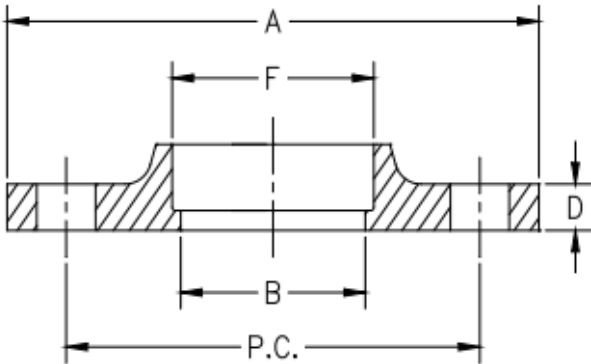


400 PSI Navy Socket Weld

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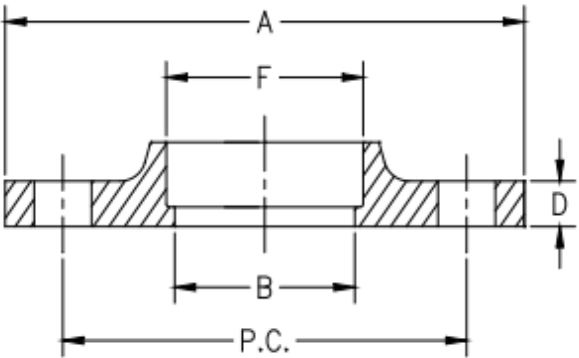
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Navy Flanges
200 PSI Socket Weld
Butterfly Flange
DWG 810-4715319
DWG 1385892
MIL-F-20042



Nominal inch	A	B	D	F	No. Holes	Hole Dia.	P.C.	Est. Weight
1 1/2	5.000	1.696	0.438	1.905	4	5/8	3.875	2.50
2	6.000	2.067	0.500	2.380	4	3/4	4.750	4.00
2 1/2	7.000	2.469	0.563	2.880	4	3/4	5.500	6.00
3	7.500	3.068	0.625	3.505	4	3/4	6.000	8.00
3 1/2	8.500	3.548	0.688	4.005	8	3/4	7.000	10.00
4	9.000	4.026	0.688	4.505	8	3/4	7.500	11.50
5	10.000	5.047	0.750	5.568	8	7/8	8.500	14.50
6	11.000	6.065	0.813	6.630	8	7/8	9.500	17.50
8	13.500	7.981	0.938	8.630	8	7/8	11.750	30.50
10	16.000	10.020	1.000	10.755	12	1	14.250	42.00
12	19.000	11.938	1.063	12.755	12	1	17.000	68.50

Navy Flanges
400 PSI
Socket Weld
DWG 810-4715319
DWG 1385892
MIL-F-20042



Nominal inch	A	B	D	F		No. Holes	Hole Dia.	P.C.	Est. Weight
				Min.	Max.				
1/4	3.750	0.396	0.688	0.545	0.575	3	9/16	2.625	2.30
3/8	3.875	0.531	0.688	0.680	0.710	4	9/16	2.750	2.30
1/2	4.000	0.696	0.688	0.845	0.875	4	9/16	2.875	2.50
3/4	4.313	0.906	0.688	1.055	1.085	4	9/16	3.188	2.90
1	5.063	1.171	0.750	1.320	1.350	5	11/16	3.750	4.20
1 1/4	5.375	1.516	0.813	1.665	1.695	5	11/16	4.063	5.00
1 1/2	5.938	1.756	0.813	1.905	1.935	6	11/16	4.625	6.10
2	6.500	2.240	0.813	2.380	2.426	7	11/16	5.188	7.10
2 1/2	7.563	2.710	0.938	2.880	2.931	8	13/16	6.000	10.70
3	8.125	3.310	0.938	3.505	3.560	8	13/16	6.563	11.90
3 1/2	8.688	3.810	1.000	4.005	4.060	9	13/16	7.125	14.00
4	9.250	4.280	1.000	4.505	4.565	9	13/16	7.688	15.80
5	10.375	5.320	1.063	5.568	5.628	11	13/16	8.813	20.00
6	11.938	6.360	1.188	6.630	6.690	12	15/16	10.188	28.60
8	14.750	8.330	1.313	8.630	8.690	13	11/16	12.750	45.80
10	17.000	10.380	1.438	10.755	10.815	15	11/16	15.000	63.00

150 PSI Navy Weld Neck

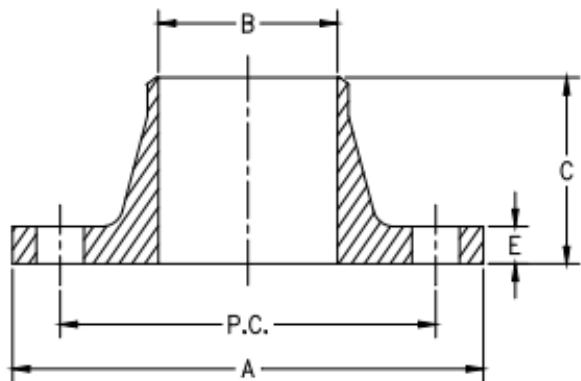


250 PSI Navy Weld Neck

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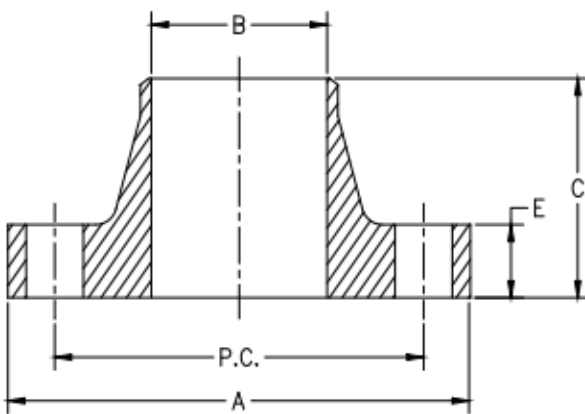
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Navy Flanges
150 PSI
Weld Neck
MIL-F 20670 Type D



Nominal inch	A	B	C	E	No. Holes	Hole Dia.	P.C.	Est. Weight
2	5.563	2.115	2.188	0.562	6	9/16	4.438	4.20
2 1/2	6.125	2.615	2.375	0.625	6	9/16	5.000	5.60
3	6.625	3.220	2.313	0.625	8	9/16	5.500	6.40
3 1/2	7.188	3.720	2.375	0.625	8	9/16	6.063	7.30
4	7.688	4.220	2.563	0.687	8	9/16	6.563	8.40
5	9.063	5.283	3.125	0.750	10	11/16	7.813	12.80
6	10.125	6.251	3.250	0.812	12	11/16	8.875	16.40
8	12.375	8.251	3.688	0.875	14	11/16	11.063	25.60
10	15.000	10.376	3.875	1.000	15	13/16	13.438	37.30
12	17.625	12.250	4.375	0.875	18	13/16	16.063	63.50

Navy Flanges
250 PSI
Weld Neck
DWG 810-1385992



Nominal inch	A	B	C	E	No. Holes	Hole Dia.	P.C.	Est. Weight
2	5.563	2.115	2.625	0.875	6	9/16	4.438	6.00
2 1/2	6.125	2.615	2.813	0.938	6	9/16	5.000	8.00
3	6.625	3.220	2.750	0.938	8	9/16	5.500	9.00
3 1/2	7.188	3.720	2.875	1.000	8	9/16	6.063	11.00
4	7.688	4.220	3.063	1.000	8	9/16	6.563	13.00
5	9.063	5.283	3.625	1.063	10	11/16	7.813	19.00
6	10.125	6.251	3.875	1.188	12	11/16	8.875	26.00
8	12.375	8.251	4.375	1.313	14	11/16	11.063	44.00
10	15.000	10.376	4.625	1.438	15	13/16	13.438	66.00
12	17.625	12.250	5.125	1.500	18	13/16	16.063	102.00

150 PSI Commercial Socket Weld

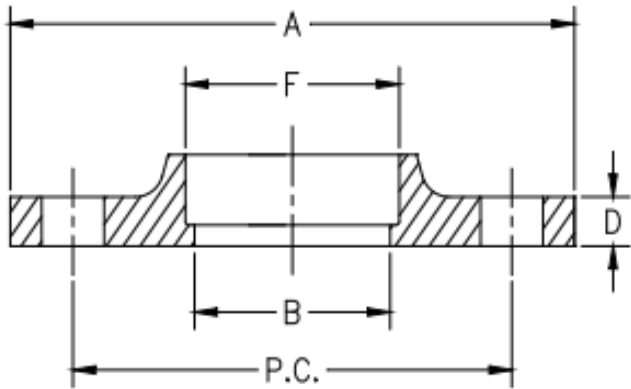


150 PSI Commercial Slip-On

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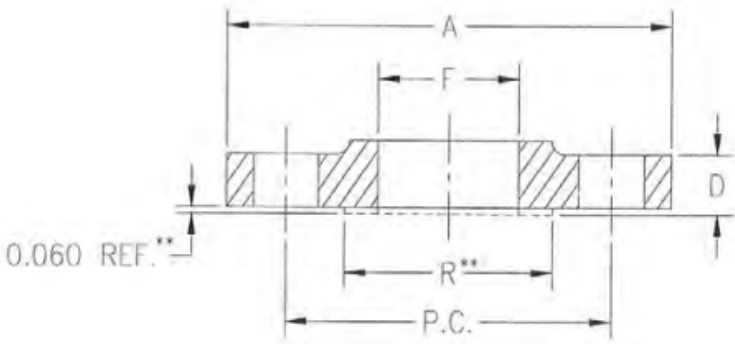
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Commercial Flanges
150 PSI
Socket Weld
ANSI B16.5



Nominal inch	A	B	D	F	No. Holes	Hole Dia.	P.C.	Est. Weight
1/2	3.500	0.880	0.438	0.880	4	5/8	2.375	1.20
3/4	3.875	0.906	0.500	1.090	4	5/8	2.750	1.70
1	4.250	1.171	0.563	1.355	4	5/8	3.125	2.20
1 1/4	4.625	1.516	0.625	1.700	4	5/8	3.500	2.90
1 1/2	5.000	1.756	0.688	1.950	4	5/8	3.875	3.70
2	6.000	2.240	0.750	2.440	4	3/4	4.750	5.70
2 1/2	7.000	2.710	0.875	2.940	4	3/4	5.500	9.00
3	7.500	3.310	0.938	3.750	4	3/4	6.000	10.50
3 1/2	8.500	3.810	0.938	4.070	8	3/4	7.000	13.00
4	9.000	4.280	0.938	4.570	8	3/4	7.500	14.20
5	10.000	5.320	0.938	5.660	8	7/8	8.500	16.00
6	11.000	6.360	1.000	6.720	8	7/8	9.500	19.40
8	13.500	8.330	1.125	8.720	8	7/8	11.750	31.30
10	16.000	10.380	1.188	10.880	12	1	14.250	42.30
12	19.000	12.250	1.250	12.880	12	1	17.000	69.60

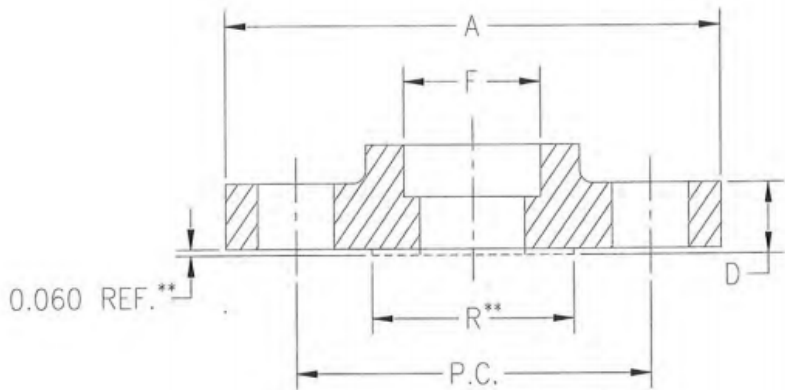
Commercial Flanges
150 PSI
Slip-On
ANSI B16.5



Nominal inch	A	D	F	No. Holes	Hole Dia.	P.C.	Est. Weight
1/2	3.500	0.438	0.880	4	5/8	2.375	1.20
3/4	3.875	0.500	1.090	4	5/8	2.750	1.70
1	4.250	0.563	1.355	4	5/8	3.125	2.20
1 1/4	4.625	0.625	1.700	4	5/8	3.500	2.90
1 1/2	5.000	0.688	1.950	4	5/8	3.875	3.70
2	6.000	0.750	2.440	4	3/4	4.750	5.70
2 1/2	7.000	0.875	2.940	4	3/4	5.500	9.00
3	7.500	0.938	3.750	4	3/4	6.000	10.50
3 1/2	8.500	0.938	4.070	8	3/4	7.000	13.00
4	9.000	0.938	4.570	8	3/4	7.500	14.20
5	10.000	0.938	5.660	8	7/8	8.500	16.00
6	11.000	1.000	6.720	8	7/8	9.500	19.40
8	13.500	1.125	8.720	8	7/8	11.750	31.30
10	16.000	1.188	10.880	12	1	14.250	42.30
12	19.000	1.250	12.880	12	1	17.000	65.70

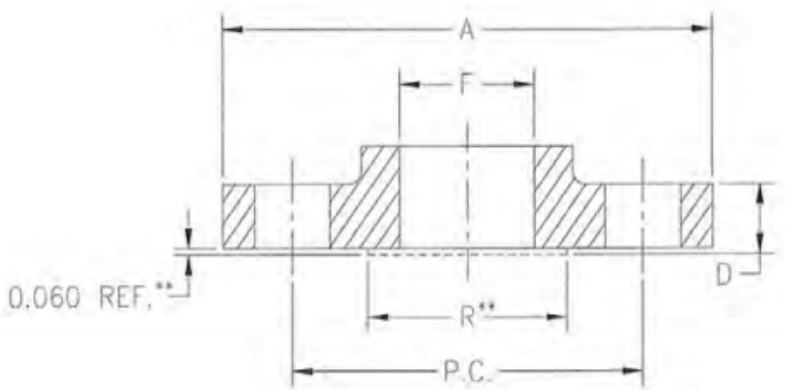


Commercial Flanges
300 PSI
Socket Weld
ANSI B16.5



Nominal inch	A	D	F	No. Holes	Hole Dia.	P.C.	Est. Weight
1/2	3.750	0.563	0.880	4	5/8	2.625	1.90
3/4	4.625	0.625	1.090	4	3/4	3.250	3.20
1	4.875	0.688	1.355	4	3/4	3.500	3.90
1 1/4	5.250	0.750	1.700	4	3/4	3.875	4.80
1 1/2	6.125	0.813	1.950	4	7/8	4.500	7.00
2	6.500	0.875	2.440	8	3/4	5.000	8.10
2 1/2	7.500	1.000	2.940	8	7/8	5.875	12.00
3	8.250	1.125	3.750	8	7/8	6.625	16.00
3 1/2	9.000	1.188	4.070	8	7/8	7.250	19.90
4	10.000	1.250	4.570	8	7/8	7.875	26.00
5	11.000	1.375	5.660	8	7/8	9.250	32.80
6	12.500	1.438	6.720	12	7/8	10.625	42.30
8	15.000	1.625	8.720	12	1	13.000	64.70
10	17.500	1.875	10.880	16	1 1/8	15.250	92.40
12	20.500	2.000	12.880	16	1 1/4	17.750	136.00

Commercial Flanges
300 PSI
Slip-On
ANSI B16.5



Nominal inch	A	D	F	No. Holes	Hole Dia.	P.C.	Est. Weight
1/2	3.750	0.563	0.880	4	5/8	2.625	1.90
3/4	4.625	0.625	1.090	4	3/4	3.250	3.20
1	4.875	0.688	1.355	4	3/4	3.500	3.80
1 1/4	5.250	0.750	1.700	4	3/4	3.875	4.70
1 1/2	6.125	0.813	1.950	4	7/8	4.500	6.90
2	6.500	0.875	2.440	8	3/4	5.000	7.90
2 1/2	7.500	1.000	2.940	8	7/8	5.875	11.70
3	8.250	1.125	3.750	8	7/8	6.625	15.60
3 1/2	9.000	1.188	4.070	8	7/8	7.250	19.30
4	10.000	1.250	4.570	8	7/8	7.875	25.30
5	11.000	1.375	5.660	8	7/8	9.250	31.70
6	12.500	1.438	6.720	12	7/8	10.625	40.90
8	15.000	1.625	8.720	12	1	13.000	62.20
10	17.500	1.875	10.880	16	1 1/8	15.250	88.70
12	20.500	2.000	12.880	16	1 1/4	17.750	129.50

150 PSI Commercial Weld Neck

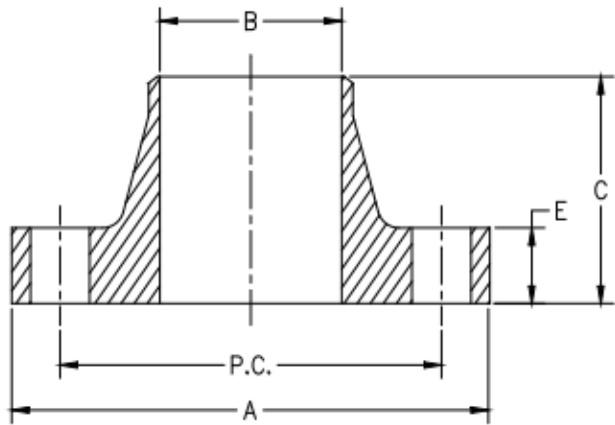


300 PSI Commercial Weld Neck

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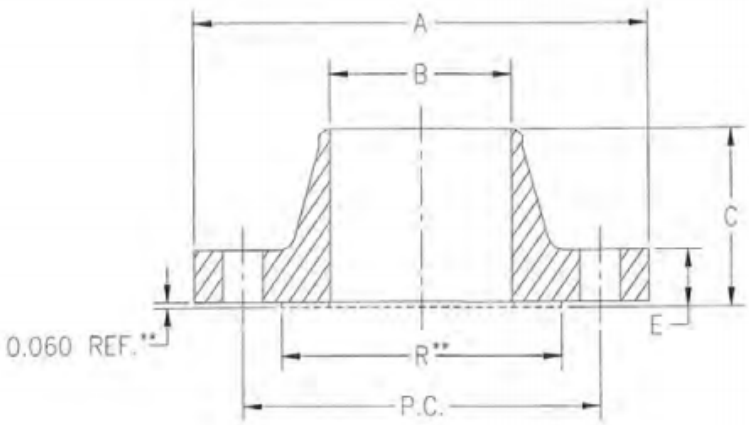
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Commercial Flanges
150 PSI
Weld Neck
ANSI B16.5

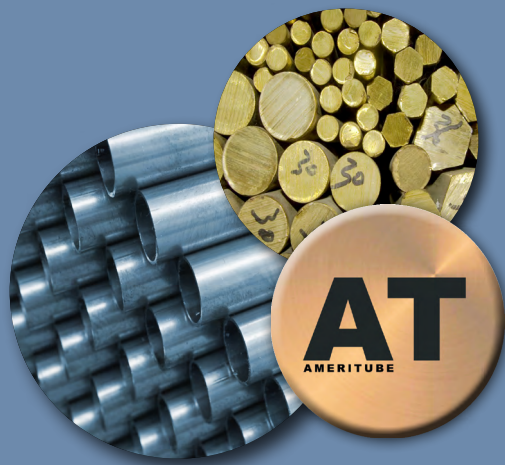


Nominal inch	A	B	C	E	No. Holes	Hole Dia.	P.C.	Est. Weight
1/2	3.500	0.620	1.875	0.437	4	5/8	2.375	2.00
3/4	3.875	0.820	2.062	0.500	4	5/8	2.750	2.00
1	4.250	1.050	2.187	0.562	4	5/8	3.125	3.00
1 1/4	4.625	1.380	2.250	0.625	4	5/8	3.500	3.00
1 1/2	5.000	1.610	2.437	0.687	4	5/8	3.875	4.00
2	6.000	2.070	2.500	0.750	4	3/4	4.750	6.00
2 1/2	7.000	2.470	2.750	0.875	4	3/4	5.500	8.00
3	7.500	3.070	2.750	0.938	4	3/4	6.000	10.00
3 1/2	8.500	3.550	2.810	0.938	8	3/4	7.000	12.00
4	9.000	4.030	3.000	0.938	8	3/4	7.500	15.00
5	10.000	5.050	3.500	0.938	8	7/8	8.500	19.00
6	11.000	6.070	3.500	1.000	8	7/8	9.500	24.00
8	13.500	7.980	4.000	1.125	8	7/8	11.750	39.00
10	16.000	10.020	4.000	1.188	12	1	14.250	52.00
12	19.000	12.00	4.500	1.250	12	1	17.000	80.00

Commercial Flanges
300 PSI
Weld Neck
ANSI B16.5



Nominal inch	A	B	C	E	No. Holes	Hole Dia.	P.C.	Est. Weight
2	6.500	2.115	2.750	0.875	8	3/4	5.000	9.80
2 1/2	7.500	2.615	3.000	1.000	8	7/8	5.875	14.50
3	8.250	3.220	3.125	1.125	8	7/8	6.625	19.10
3 1/2	9.000	3.720	3.188	1.188	8	7/8	7.250	22.70
4	10.000	4.220	3.380	1.250	8	7/8	7.875	29.40
5	11.000	5.283	3.875	1.375	8	7/8	9.250	37.30
6	12.500	6.251	3.875	1.438	12	7/8	10.625	49.60
8	15.000	8.251	4.375	1.625	12	1	13.000	76.40
10	17.500	10.376	4.625	1.875	16	1 1/8	15.250	108.70
12	20.500	12.250	5.125	2.000	16	1 1/4	17.750	166.60



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