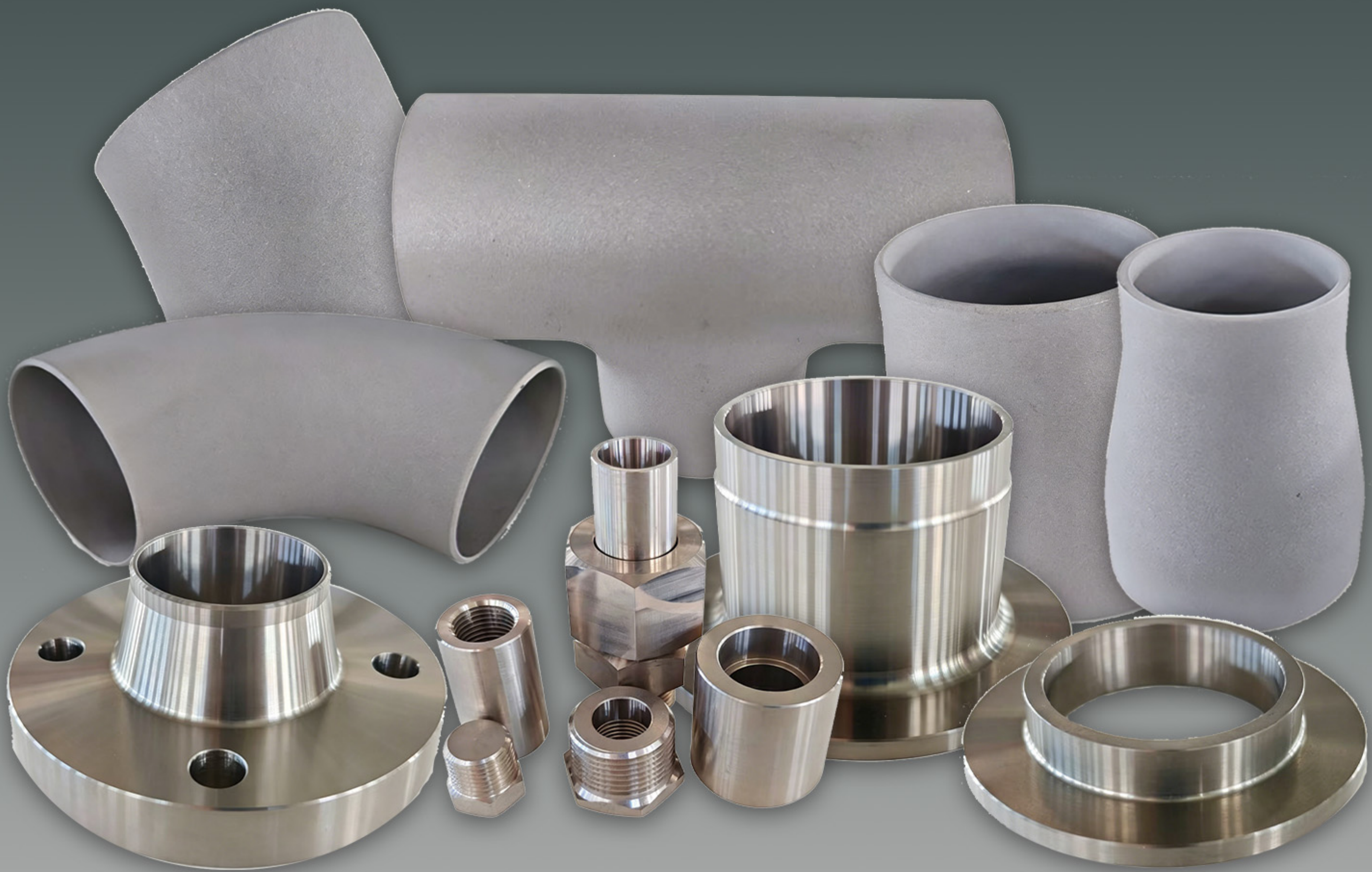


Copper Nickel 90/10 Pipe Fittings & Flanges for Shipbuilding & Offshore Industry



About us

Haomei Group specializes in the production of 90/10 copper nickel (Cu90Ni10) pipe fittings for marine applications. Our products are manufactured in compliance with KME, DIN, ASTM, GB and other international standards, with strictly controlled chemical composition.

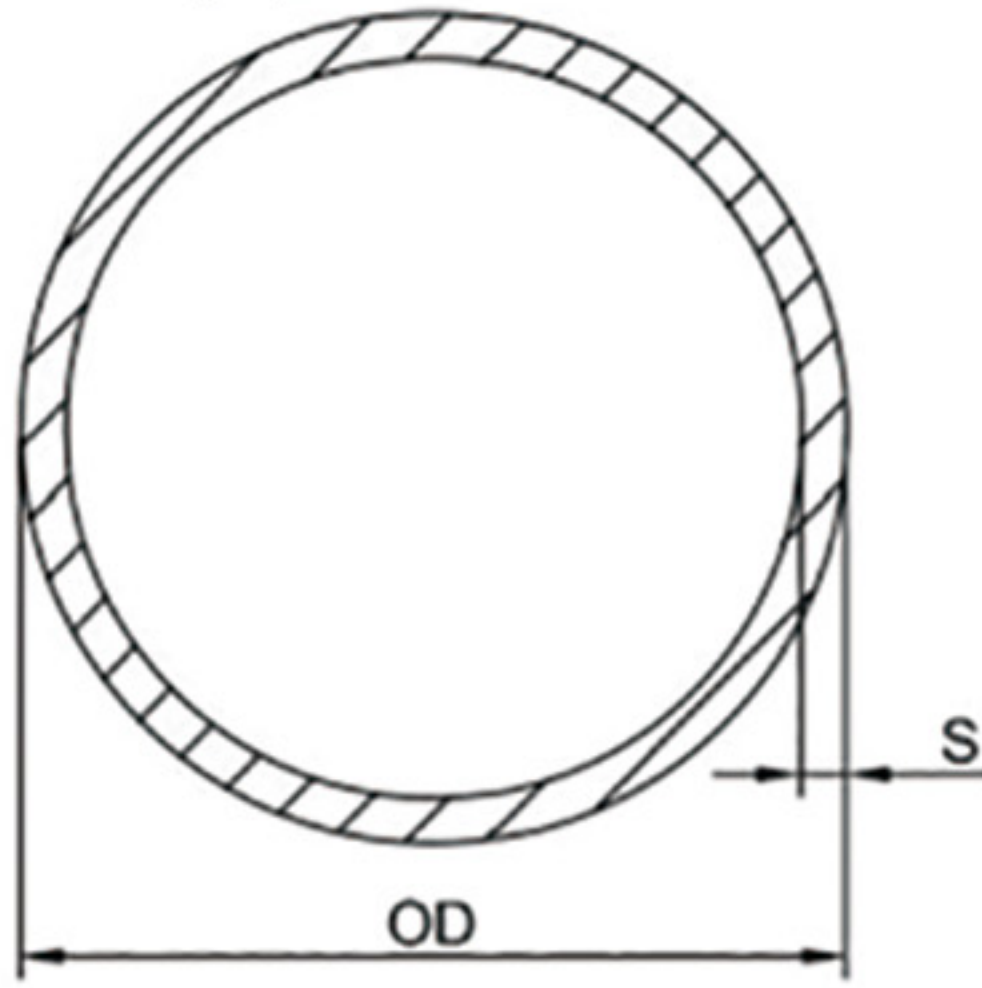
Featuring outstanding resistance to seawater corrosion, marine biofouling, crevice corrosion and stress corrosion, our fittings have a service life of over 20 years. The material also boasts good thermal conductivity, low-temperature toughness, easy weldability and recyclability, delivering better performance and cost efficiency than ordinary stainless steel.

We supply a complete range of products, including copper nickel pipes, elbows, tees, reducers, pipe caps, flanges, socket joints, threaded fittings and other accessories. Custom non-standard fittings are also available to meet diverse pipeline requirements. Our products are widely used in marine cooling systems, fire water supply, offshore oil & gas platforms, seawater desalination, coastal power plants and brine transportation projects.

All products are integrally formed by forging and push-forming, free of splices, pinholes and cracks. The wall thickness deviation is controlled within $\pm 5\%$. Every fitting is processed with pickling, passivation and anti-rust treatment before delivery. We conduct 100% PMI test and non-destructive testing including X-ray and ultrasonic inspection. Our products are approved by major classification societies such as CCS, DNV, ABS, BV, LR and NK, and complete material certificates can be provided.

Standard items are delivered within 7-15 days, and customized products take 15-30 days. With anti-tarnish treatment, plastic end caps and fumigation-free plywood cases, the goods are well protected for ocean transportation. We offer free return and exchange for defective products and bear the related freight. Choose us for reliable marine pipe fittings solutions.

Copper Nickel Pipe

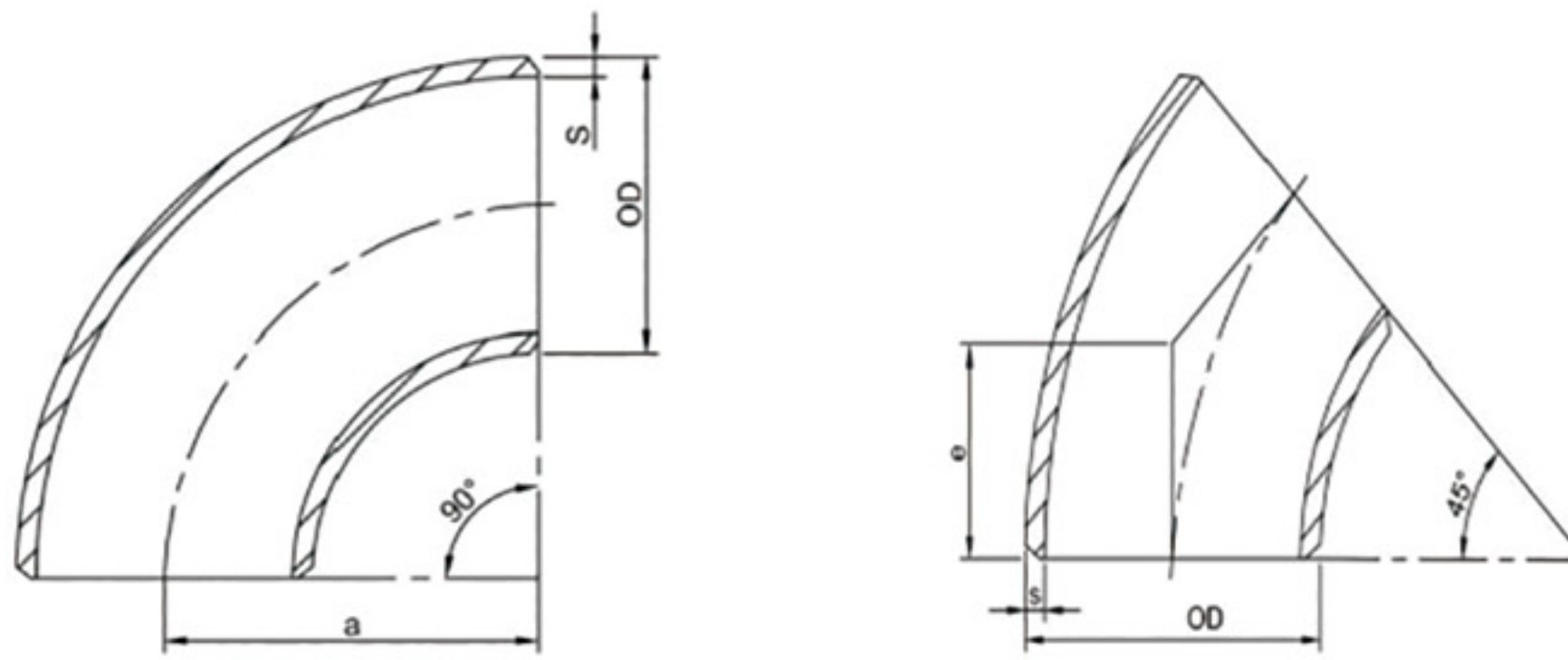


DIN86019/DIN86018 Seamless Pipe			
specification	DN	OD	S
inch	mm	mm	mm
1/2	15	20	1
3/4	20	25	1.5
1	25	30	1.5
1 1/4	32	38	1.5
1 1/2	40	44.5	1.5
2	50	57	1.5
2 1/2	65	76	2
3	80	89	2
4	100	108	2.5
5	125	133	2.5
6	150	159	2.5
8	200	219	3
10	250	267	3
12	300	324	4
14	350	368	4
16	400	419	4
Seam-welded Pipe			
18	450	457	4.5
20	500	508	5
24	600	610	5
28	700	711	6
32	800	813	6
36	900	914	8

EEMUA234 Seamless Pipe				
specification	DN	OD	S 16bar	S 20bar
inch	mm	mm	mm	mm
1/2	15	16	2	2
3/4	20	25	2	2
1	25	30	2.5	2.5
1 1/4	32	38	2.5	2.5
1 1/2	40	44.5	2.5	2.5
2	50	57	2.5	2.5
2 1/2	65	76.1	2.5	2.5
3	80	88.9	2.5	2.5
4	100	108	3	3
6	150	159	3	3.5
8	200	219.1	4	4.5
10	250	267	4.5	5.5
12	300	323.9	5.5	7
14	350	368	6.5	8
16	400	419	7	9
Seam-welded Pipe				
18	450	457.2	8	9.5
20	500	508	8.5	11
24	600	610	10.5	13
28	700	711	12	15
32	800	813	13.5	17
36	900	914	15.5	19

ASME B36.19M Seamless Pipe			
specification	DN	OD	S
inch	mm	mm	mm
1/2	15	21.3	2.11
3/4	20	26.7	2.11
1	25	33.4	2.77
1 1/4	32	42.2	2.77
1 1/2	40	48.3	2.77
2	50	60.3	2.77
2 1/2	65	73	3.05
3	80	88.9	3.05
4	100	114.3	3.05
6	150	168.3	3.4
8	200	219.1	3.76
10	250	273	4.19
12	300	323.8	4.57
14	350	355.6	4.78
16	400	406.4	4.78
Seam-welded Pipe			
18	450	457	4.78
20	500	508	5.54
24	600	610	6.35

Copper Nickel Elbows



DIN86090 Copper Nickel Elbow 1.5D

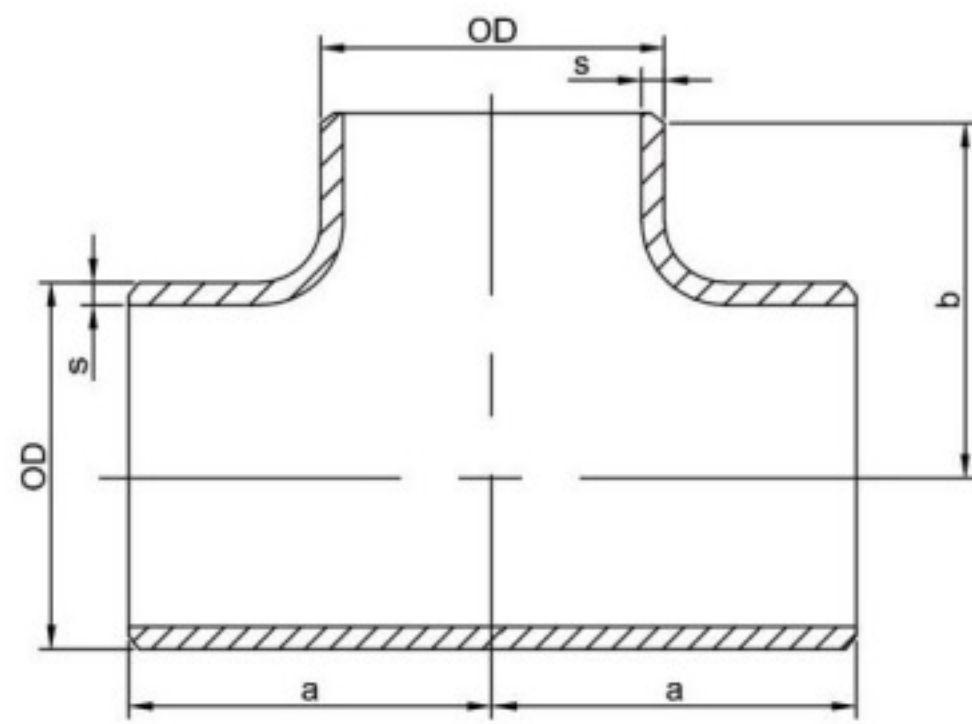
specification		OD	S	a	≈e	Weight	Weight
						45°	90°
inch	DN	mm	mm	mm	mm	kg	kg
1/2	15	20	1	25	10.4	0.013	0.026
3/4	20	25	1.5	27.5	11.4	0.029	0.058
1	25	30	1.5	33.5	14	0.03	0.06
1 1/4	32	38	1.5	45	19	0.06	0.12
1 1/2	40	44.5	1.5	51	21	0.07	0.14
2	50	57	1.5	72	30	0.13	0.26
2 1/2	65	76	2	95	39	0.31	0.62
3	80	89	2	114.5	47	0.44	0.88
4	100	108	2.5	142.5	59	0.88	1.66
5	125	133	2.5	181	75	1.3	2.6
6	150	159	2.5	216	89	1.85	3.7
7	175	194	3	270	112	2.85	5.7
8	200	219	3	305	126	4.35	8.7
10	250	267	3	378	157	6.55	13.1
12	300	324	4	457	189	12.8	25.6
14	350	368	4	533.5	221	17	34
16	400	419	4	609.5	252	24.85	49.7
18	450	457	4.5	686	284	30.95	61.9
20	500	508	5	762	316	41.95	83.9
24	600	610	5	914	379	62	113

DIN86090 Copper Nickel Elbow 1.0D							
specification		OD	S	a	≈e	Weight	Weight
						45°	90°
inch	DN	mm	mm	mm	mm	kg	kg
1	25	30	1.5	30	12	0.027	0.054
1 1/4	32	38	1.5	32.5	14	0.033	0.076
1 1/2	40	44.5	1.5	40	17	0.057	0.144
2	50	57	1.5	52.5	22	0.1	0.2
2 1/2	65	76	2	70	29	0.23	0.46
3	80	89	2	82.5	34	0.32	0.65
4	100	108	2.5	100	41	0.58	1.16
5	125	133	2.5	125	52	0.9	1.8
6	150	159	2.5	150	62	1.3	2.6
7	175	194	3	180	75	1.9	3.8
8	200	219	3	210	87	3	6
10	250	267	3	255	106	4.44	8.88
12	300	324	4	305	126	8.55	17.1
14	350	368	4	352.5	146	11.3	22.6
16	400	419	4	400	166	16.4	32.8
18	450	457	4.5	455	189	20.45	40.9
20	500	508	5	505	210	28.1	56.2
24	600	610	5	610	253	45	90

EEMUA 234 Copper Nickel Elbow 90°45°LR									
						Weight 16bar	Weight 20bar	Weight 16bar	Weight 20bar
specification	OD	S 16bar	S 20bar	a	≈e	90°	90°	45°	45°
inch	mm	mm	mm	mm	mm	kg	kg	kg	kg
1	30	2.5	2.5	38	22	0.12	0.12	0.06	0.06
1 1/4	38	2.5	2.5	48	25	0.13	0.13	0.09	0.09
1 1/2	44.5	2.5	2.5	57	29	0.3	0.3	0.15	0.15
2	57	2.5	2.5	76	35	0.52	0.52	0.25	0.25
2 1/2	76.1	2.5	2.5	95	44	0.9	0.9	0.45	0.45
3	88.9	2.5	2.5	114	51	1.25	1.25	0.65	0.65
4	108	3	3	152	64	2.1	2.1	1	1
6	159	3	3.5	229	95	4.7	5.5	2.3	2.7
8	219.1	4	4.5	305	127	12	13	6	6.5
10	267	4.5	5.5	381	159	20	24	10	12
12	323.9	5.5	7	457	190	35	45	17	23
14	368	6.5	8	533	222	55	67	27	34
16	419	7	9	610	254	77	99	38	50
18	457.2	8	9.5	686	286	109	128	54	64
20	508	8.5	11	762	318	142	184	71	92
24	610	10.5	13	914	381	252	312	126	156
28	711	12	15	1067	438	394	490	197	245
32	813	13.5	17	1219	502	579	725	289	362
36	914	15.5	19	1372	565	841	1026	420	513

ASME B16.9 Copper Nickel Elbow 90°45°1.5D							
DN		OD	s 10s	a	≈e	Weight 45°	Weight 90°
inch	mm	mm	mm	mm	mm	kg	kg
2/1	15	21.3	2.11	38	16	0.035	0.07
4/3	20	26.7	2.11	38	19	0.04	0.08
1	25	33.4	2.77	38	22	0.065	0.13
1 1/4	32	42.2	2.77	48	25	0.075	0.15
1 1/2	40	48.3	2.77	57	29	0.17	0.33
2	50	60.3	2.77	76	35	0.29	0.58
2 1/2	65	73	3.05	95	44	0.55	1.1
3	80	88.9	3.05	114	51	0.77	1.53
4	100	114.3	3.05	152	64	1.07	2.13
6	150	168.3	3.4	229	95	2.75	5.5
8	200	219.1	3.76	305	127	5.64	11.28
10	250	273	4.19	381	159	9.3	18.6
12	300	323.8	4.57	457	190	14.54	29.08
14	350	355.6	4.78	533	222	20.2	40.45
16	400	406.4	4.78	610	254	26.29	52.58
18	450	457	4.78	686	286	32.57	65.13
20	500	508	5.54	762	318	46.28	92.55
24	600	610	6.35	914	381	76.2	152.4

Copper Nickel Equal Tee

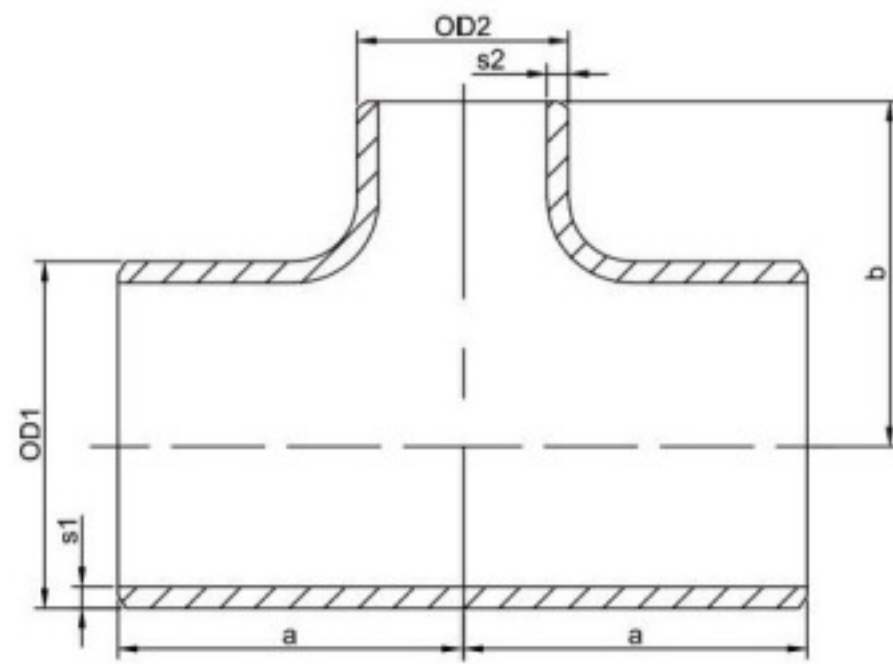


DIN86088 Copper Nickel Equal Tee						
specification	DN	OD	S	a	b	Weight
inch	mm	mm	mm	mm	mm	kg
1/2	15	20	1	25	25	0.05
3/4	20	25	1.5	29	29	0.07
1	25	30	1.5	38	38	0.19
1 1/4	32	38	1.5	48	48	0.32
1 1/2	40	44.5	1.5	57	57	0.46
2	50	57	1.5	64	64	0.66
2 1/2	65	76	2	76	76	1.2
3	80	89	2	86	86	1.7
4	100	108	2.5	105	105	3
5	125	133	2.5	124	124	4.7
6	150	159	2.5	143	143	6.2
8	200	219	3	178	178	11.6
10	250	267	3	216	216	14.92
12	300	324	4	254	254	21.3
14	350	368	4	279	279	25.9
16	400	419	4	305	305	33.4
18	450	457	4.5	343	343	48.6
20	500	508	5	381	381	63.2
24	600	610	5	432	432	93.8

EEMUA234 Copper Nickel Equal Tee							
specification	OD	s 16bar	s 20bar	a	b	Weight 16bar	Weight 20bar
inch	mm	mm	mm	mm	mm	kg	kg
1	30	2.5	2.5	38	38	0.3	0.3
1 1/4	38	2.5	2.5	48	48	0.5	0.5
1 1/2	44.5	2.5	2.5	57	57	0.75	0.75
2	57	2.5	2.5	64	64	1	1
2 1/2	76.1	2.5	2.5	76	76	1.6	1.6
3	88.9	2.5	2.5	86	86	2	2
4	108	3	3	105	105	3.25	3.25
6	159	3	3.5	143	143	6	7.2
8	219.1	4	4.5	178	178	11.25	12.7
10	267	4.5	5.5	216	216	22.5	27.5
12	323.9	5.5	7	254	254	39.5	50.3
14	368	6.5	8	279	279	62	76
16	419	7	9	305	305	88	119
18	457.2	8	9.5	343	343	128	152
20	508	8.5	11	381	381	165	214
24	610	10.5	13	432	432	266	330
28	711	12	15	521	521	388	458
32	813	13.5	17	597	597	508	606
36	914	15.5	19	673	673	650	794

ASME B16.9 Copper Nickel Equal Tee						
DN		OD	s 10s	a	b	Weight
inch	mm	mm	mm	mm	mm	kg
1/2	15	21.3	2.11	25	25	0.11
3/4	20	26.7	2.11	29	29	0.21
1	25	33.4	2.77	38	38	0.33
1 1/4	32	42.2	2.77	48	48	0.55
1 1/2	40	48.3	2.77	57	57	0.83
2	50	60.3	2.77	64	64	1.11
2 1/2	65	73	3.05	76	76	1.95
3	80	88.9	3.05	86	86	2.44
4	100	114.3	3.05	105	105	3.3
6	150	168.3	3.4	143	143	7.2
8	200	219.1	3.76	178	178	10.6
10	250	273	4.19	216	216	20.95
12	300	323.8	4.57	254	254	32.8
14	350	355.6	4.78	279	279	45.6
16	400	406.4	4.78	305	305	60.1
18	450	457	4.78	343	343	76.5
20	500	508	5.54	381	381	107.6
24	600	610	6.35	432	432	160.9

Copper Nickel Reducing Tee



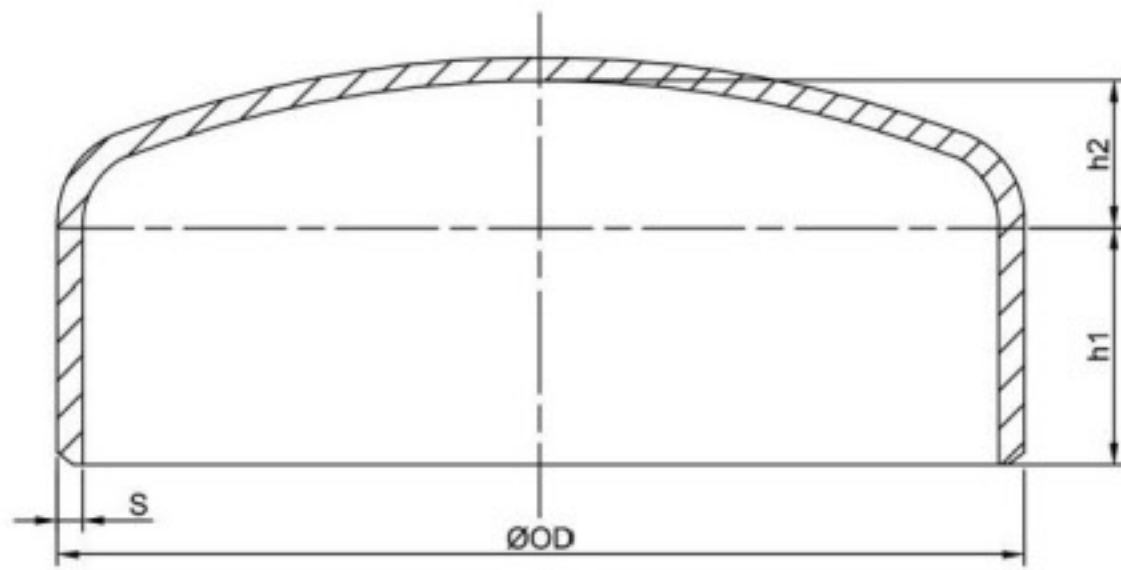
DIN86088 Reducing Tee					
specification	OD1xOD2	S1xS2	a	b	Weight
inch	mm	mm	mm	mm	kg
3/4*1/2	25*20	1.5*1	29	26	0.08
1*1/2	30*20	1.5*1	38	29	0.09
1*3/4	30*25	1.5*1.5	38	35	0.09
1 1/4*3/4	38*25	1.5*1.5	48	35	0.1
1 1/4*1	38*30	1.5*1.5	48	42	0.1
1 1/2*1	44.5*30	1.5*1.5	57	45	0.21
1 1/2*1 1/4	44.5*38	1.5*1.5	57	51	0.21
2*1	57*30	1.5*1.5	64	51	0.32
2*1 1/4	57*38	1.5*1.5	64	57	0.33
2*1 1/2	57*44.5	1.5*1.5	64	63	0.34
2 1/2*1	76*30	2*1.5	76	56	0.65
2 1/2*1 1/4	76*38	2*1.5	76	62	0.66
2 1/2*1 1/2	76*44.5	2*1.5	76	71	0.67
2 1/2*2	76*57	2*1.5	76	73	0.68
3*1 1/4	89*38	2*1.5	86	73	0.87
3*1 1/2	89*44.5	2*1.5	86	76	0.88
3*2	89*57	2*1.5	86	80	0.89
3*2 1/2	89*76	2*2	86	83	0.9
4*1 1/2	108*44.5	2.5*1.5	105	89	1.6
4*2	108*57	2.5*1.5	105	90	1.61
4*2 1/2	108*76	2.5*2	105	92	1.65
4*3	108*89	2.5*2	105	96	1.67
5*2	133*57	2.5*1.5	124	98	3
5*2 1/2	133*76	2.5*2	124	105	3.1
5*3	133*89	2.5*2	124	108	3.25
5*4	133*108	2.5*2.5	124	117	3.3
6*2 1/2	159*76	2.5*2	143	118	4.4
6*3	159*89	2.5*2	143	121	4.5
6*4	159*108	2.5*2.5	143	130	4.6
6*5	159*133	2.5*2.5	143	136	4.7
8*4	219*108	3*2.5	178	156	12.6
8*5	219*133	3*2.5	178	162	12.7
8*6	219*159	3*2.5	178	168	12.8
10*5	267*133	3*2.5	216	189	9.8
10*6	267*159	3*2.5	216	194	10.4
10*7	267*194	3*2.5	216	198	11.8
10*8	267*219	3*3	216	203	13.85
12*6	324*159	4*2.5	254	219	18.27
12*7	324*194	4*2.5	254	222	19
12*8	324*219	4*3	254	229	19.92
12*10	324*267	4*3	254	241	20.31
14*7	368*194	4*2.5	279	242	23.5
14*8	368*219	4*3	279	248	24.1
14*10	368*267	4*3	279	257	24.8
14*12	368*324	4*4	279	270	25.4
16*8	419*219	4*3	305	276	30.1
16*10	419*267	4*3	305	283	30.5
16*12	419*324	4*4	305	295	31.8
16*14	419*368	4*4	305	305	32.5
18*10	457*267	4.5*3	343	310	41.7
18*12	457*324	4.5*4	343	321	43.2
18*14	457*368	4.5*4	343	330	43.7
18*16	457*419	4.5*4	343	330	46.2
20*12	508*324	5*4	381	347	57.7
20*14	508*368	5*4	381	356	58.4
20*16	508*419	5*4	381	356	59.2
20*18	508*457	5*4.5	381	368	60.7
24*14	610*368	5*4	432	393	84.5
24*16	610*419	5*4	432	406	85.5
24*18	610*457	5*4.5	432	419	86.9
24*20	610*508	5*5	432	432	89.4

EEMUA234 Copper Nickel Reducing Tee

specification	OD1xOD2	S1xS216bar	S1xS2206bar	a	b	Weight 16bar	Weight 20bar
inch	mm	mm	mm	mm	mm	mm	mm
12*10	323.9*267	5.5*4.5	7*5.5	254	241	27.48	34.69
12*8	323.9*219.1	5.5*4	7*4.5	254	229	26.49	33.32
12*6	323.9*159	5.5*3	7*3.5	254	219	25.62	32.38
14*12	368*323.9	6.5*5.5	8*7	279	270	40.87	50.27
14*10	368*267	6.5*4.5	8*5.5	279	257	39.07	47.87
14*8	368*219.1	6.5*4	8*4.5	279	248	38.2	46.66
16*14	419*368	7*6.5	9*8	305	305	55.46	70.63
16*12	419*323.9	7*5.5	9*7	305	295	53.38	68.24
16*10	419*267	7*4.5	9*5.5	305	283	51.62	65.89
18*16	457.2*419	8*7	9.5*9	343	330	77.1	92.04
18*14	457.2*368	8*6.5	9.5*8	343	330	75.59	89.74
18*12	457.2*323.9	8*5.5	9.5*7	343	321	73.45	87.31
20*18	508*457.2	8.5*8	11*9.5	381	368	101.91	130.03
20*16	508*419	8.5*7	11*9	381	356	98.68	127
20*14	508*368	8.5*6.5	11*8	381	356	97.16	124.69
24*20	610*508	10.5*8.5	13*11	432	432	167.14	206.9
24*18	610*457.2	10.5*8	13*9.5	432	419	163.52	201.04
24*16	610*419	10.5*7	13*9	432	406	160.21	197.91
28*24	711*610	12*10.5	15*13	521	508	271.22	337.26
28*20	711*508	12*8.5	15*11	521	483	259.52	323.65
28*18	711*457.2	12*8	15*9.5	521	470	255.88	317.78
32*28	813*711	13.5*12	17*15	597	572	399.14	500.07
32*24	813*610	13.5*10.5	17*13	597	559	387.17	484.85
32*20	813*508	13.5*8.5	17*11	597	533	375.34	471.09
36*32	914*813	15.5*13.5	19*17	673	648	581.77	712.24
36*28	914*711	15.5*12	19*15	673	622	562.82	688.14
36*24	914*610	15.5*10.5	19*13	673	610	551.05	673.17

ASME B16.9 Copper Nickel Reducing Tee						
specification	OD1xOD2	S110S	S210S	a	b	Weight
inch	mm	mm	mm	mm	mm	kg
1*3/4	33.4*26.7	2.77	2.11	38	38	0.18
1*1/2	33.4*21.3	2.77	2.11	38	38	0.17
11/4*1	42.2*33.4	2.77	2.77	48	48	0.32
11/4*3/4	42.2*26.7	2.77	2.11	48	48	0.31
11/4*1/2	42.2*21.3	2.77	2.11	48	48	0.29
11/2*11/4	48.3*42.2	2.77	2.77	57	57	0.47
11/2*1	48.3*33.4	2.77	2.77	57	57	0.44
11/2*3/4	48.3*26.7	2.77	2.11	57	57	0.42
11/2*1/2	48.3*21.3	2.77	2.11	57	57	0.4
2*11/2	60.3*48.3	2.77	2.77	64	60	0.64
2*11/4	60.3*42.2	2.77	2.77	64	57	0.62
2*1	60.3*33.4	2.77	2.77	64	51	0.59
2*3/4	60.3*26.7	2.77	2.11	64	44	0.56
21/2*2	73*60.3	3.05	2.77	76	70	1.1
21/2*11/2	73*48.3	3.05	2.77	76	67	1.06
21/2*11/4	73*42.2	3.05	2.77	76	64	1
21/2*1	73*33.4	3.05	2.77	76	57	0.96
3*21/2	88.9*73	3.05	3.05	86	83	1.5
3*2	88.9*60.3	3.05	2.77	86	76	1.4
3*11/2	88.9*48.3	3.05	2.77	86	73	1.36
3*11/4	88.9*42.2	3.05	2.77	86	70	1.28
4*3	114.3*88.9	3.05	3.05	105	98	2.2
4*21/2	114.3*73	3.05	3.05	105	95	2.1
4*2	114.3*60.3	3.05	2.77	105	89	2
4*11/2	114.3*48.3	3.05	2.77	105	86	1.88
6*4	168.3*114.3	3.4	3.05	143	130	4.8
6*3	168.3*88.9	3.4	3.05	143	124	4.62
8*6	219.1*168.3	3.76	3.4	178	168	9
8*4	219.1*114.3	3.76	3.05	178	156	8.8
10*8	273*219.1	4.19	3.76	216	203	17.7
10*6	273*168.3	4.19	3.4	216	194	16.8
10*4	273*114.3	4.19	3.05	216	184	16.3
12*10	323.8*273	4.57	4.19	254	241	22.8
12*8	323.8*219.1	4.57	3.76	254	229	22
12*6	323.8*168.3	4.57	3.4	254	219	21.3
14*12	355.6*323.8	4.78	4.57	279	270	30
14*10	355.6*273	4.78	4.19	279	257	22.1
14*8	355.6*219.1	4.78	3.76	279	248	28.1
14*6	355.6*168.3	4.78	3.4	279	238	27.5
16*14	406.4*355.6	4.78	4.78	305	305	37.9
16*12	406.4*323.8	4.78	4.57	305	295	36.5
16*10	406.4*273	4.78	4.19	305	283	35.3
16*8	406.4*219	4.78	3.76	305	273	34.2
16*6	406.4*168.3	4.78	3.4	305	264	33.5
18*16	457*406.4	4.78	4.78	343	330	46.1
18*14	457*355.6	4.78	4.78	343	330	45.2
18*12	457*323.8	4.78	4.57	343	321	43.9
18*10	457*273	4.78	4.19	343	308	41.7
18*8	457*219.1	4.78	3.76	343	298	39.6
20*18	508*457	5.54	4.78	381	368	66.4
20*16	508*406.4	5.54	4.78	381	356	64.4
20*14	508*355.6	5.54	4.78	381	356	63.4
20*12	508*323.8	5.54	4.57	381	346	61.5
20*10	508*273	5.54	4.19	381	333	59.7
20*8	508*219.1	5.54	3.76	381	324	57.7
24*20	610*508	6.35	5.54	432	432	101.1
24*18	610*457	6.35	4.78	432	419	98.9
24*16	610*406.4	6.35	4.78	432	406	96.9
24*14	610*355.6	6.35	4.78	432	406	94
24*12	610*323.8	6.35	4.57	432	397	91.2
24*10	610*273	6.35	4.19	432	384	88.5

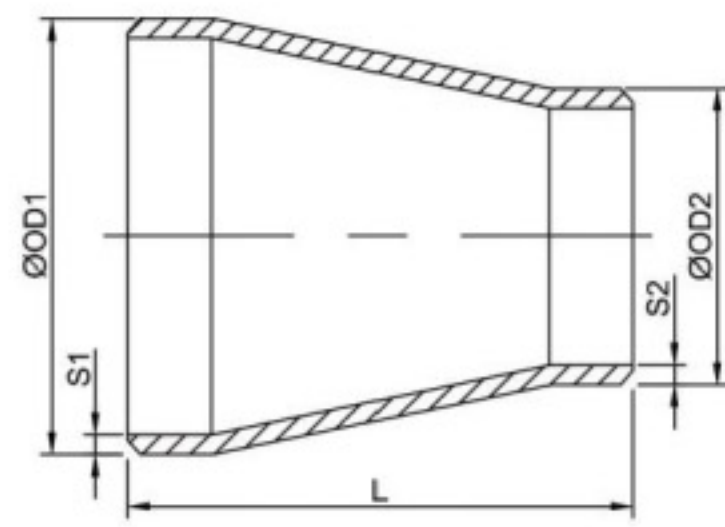
Copper Nickel Cap



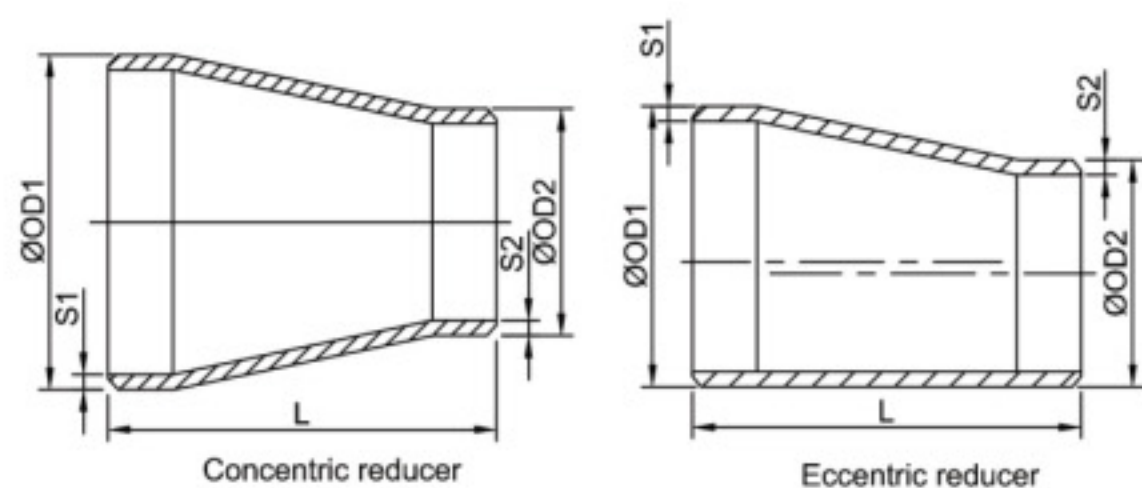
DIN28011 Copper Nickel Cap						
specification		OD	S	h1	h2	Weight
inch	DN	mm	mm	mm	mm	kg
1	25	30	1.5	14	5	0.07
1 1/4	32	38	1.5	14	6.5	0.1
1 1/2	40	44.5	1.5	14	8	0.12
2	50	57	1.5	18	10	0.18
2 1/2	65	76	2	18	16	0.31
3	80	89	2	20	16	0.39
4	100	108	2.5	20	20	0.75
5	125	133	2.5	20	24	0.95
6	150	159	2.5	20	29	1.35
7	175	194	3	20	36	1.95
8	200	219	3	20	41	2.6
10	250	267	3	20	50	3.85
12	300	324	4	20	61	6.6
14	350	368	4	20	69	8.8
16	400	419	4	20	79	12.2
18	450	457	4.5	20	87	12.55
20	500	508	5	20	96	18.8
24	600	610	5	20	115	26.7

EEMUA 234 Copper Nickel Cap							
specification	OD	S 16bar	S 20bar	h1+h2 16bar	h1+h2 20bar	Weight 16bar	Weight 20bar
inch	mm	mm	mm	mm	mm	kg	kg
1 1/2	44.5	2.5	2.5	19.6	19.6	0.08	0.08
2	57	2.5	2.5	22	22	0.11	0.11
2 1/2	76.1	2.5	2.5	25.7	25.7	0.18	0.18
3	88.9	2.5	2.5	28.2	28.2	0.24	0.24
4	108	3	3	31.7	31.7	0.4	0.4
6	159	3	3.5	41	44	0.8	0.97
8	219	4	4.5	55	60	2	2.4
10	267	4.5	5.5	69	69	3.4	4.1
12	323.9	5.5	7	80	85	5.9	7.7
14	368	6.5	8	93	103	9.1	11.9
16	419	7	9	102	112	12.4	16.9
18	457.2	8	9.5	119	119	17.6	20.9
20	508	8.5	11	129	139	22.7	30.8
24	610	10.5	13	148	163	39.2	51.6
28	711	12	15	176	191	61.8	81.4
32	813	13.5	17	200	210	90.5	117.4
36	914	15.5	19	221	231	132.2	166.2

Copper Nickel Reducer



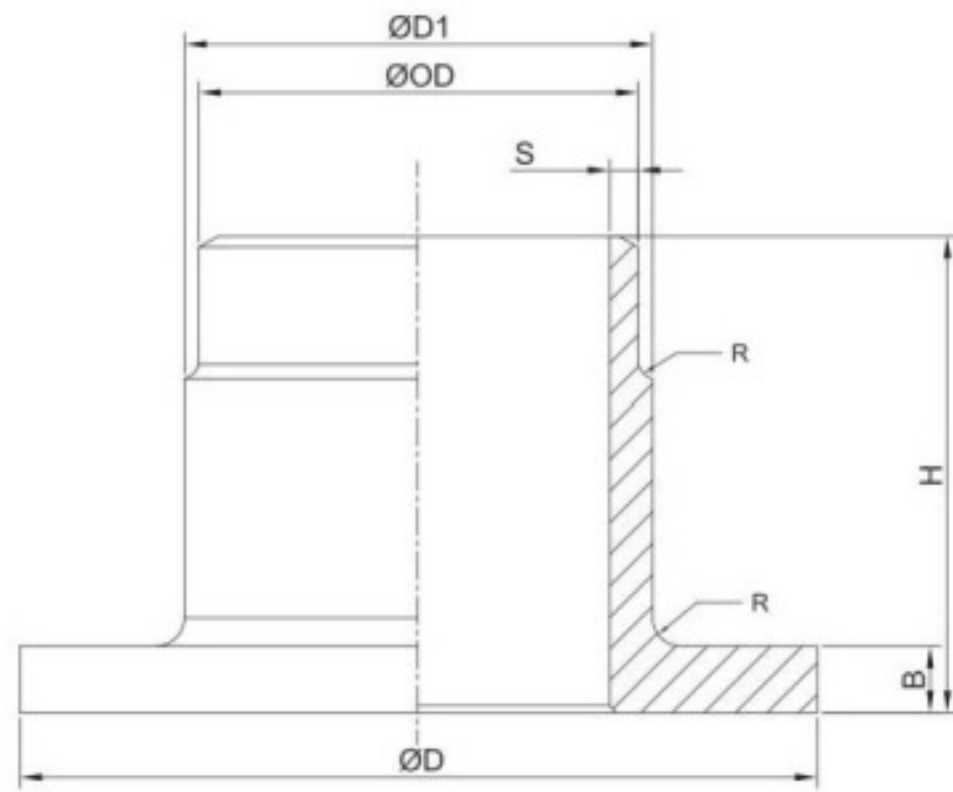
DIN86089 Copper Nickel Reducer					
specification		OD1 XOD2	S1XS2	L	Weight
inch	DN	mm	mm	mm	kg
4"x3"	100x80	108x89	2.5x2	100	0.72
5"x2"	125x50	133x57	2.5x1.5	140	0.86
5"x2 1/2"	125x65	133x76	2.5x2	140	0.9
5"x3"	125x80	133x89	2.5x2	140	0.94
5"x4"	125x100	133x108	2.5x2.5	140	0.98
6"x2 1/2"	150x65	159x76	2.5x2	150	1.16
6"x3"	150x80	159x89	2.5x2	150	1.25
6"x4"	150x100	159x108	2.5x2.5	150	1.37
6"x5"	150x125	159x133	2.5x2.5	150	1.7
7"x3"	175x80	194x89	3x2	155	1.94
7"x4"	175x100	194x108	3x2.5	155	1.96
7"x5"	175x125	194x133	3x2.5	155	2.01
7"x6"	175x150	194x159	3x2.5	155	2.08
8"x4"	200x100	219x108	3x2.5	155	2.55
8"x5"	200x125	219x133	3x2.5	155	2.64
8"x6"	200x150	219x159	3x2.5	155	2.73
8"x7"	200x175	219x194	3x3	155	2.82
10"x5"	250x125	267x133	3x2.5	210	4.42
10"x6"	250x150	267x159	3x2.5	210	4.53
10"x7"	250x175	267x194	3x3	210	4.63
10"x8"	250x200	267x219	3x3	210	4.78
12"x5"	300x125	324x133	4x2.5	210	7.12
12"x6"	300x150	324x159	4x2.5	210	7.2
12"x7"	300x175	324x194	4x3	210	7.28
12"x8"	300x200	324x219	4x3	210	7.4
12"x10"	300x250	324x267	4x3	210	7.55
14"x6"	350x150	368x159	4x3	300	10.75
14"x7"	350x175	368x194	4x3	300	11.05
14"x8"	350x200	368x219	4x3	300	11.4
14"x10"	350x250	368x267	4x3	300	11.8
14"x12"	350x300	368x324	4x4	300	12.2
16"x7"	400x175	419x194	4x3	325	12.9
16"x8"	400x200	419x219	4x3	325	13.4
16"x10"	400x250	419x267	4x3	325	13.9
16"x12"	400x300	419x324	4x4	325	14.4
16"x14"	400x350	419x368	4x4	325	15.1
18"x8"	450x200	457x219	4.5x3	350	17.09
18"x10"	450x250	457x267	4.5x3	350	17.6
18"x12"	450x300	457x324	4.5x4	350	18.19
18"x14"	450x350	457x368	4.5x4	350	18.95
18"x16"	450x400	457x419	4.5x4	350	19.9
20"x10"	500x250	508x267	5x3	375	22
20"x12"	500x300	508x324	5x4	375	23.1
20"x14"	500x350	508x368	5x4	375	24.3
20"x16"	500x400	508x419	5x4	375	25.2
20"x18"	500x450	508x457	5x4.5	375	26.1
24"x14"	600x350	610x368	5x4	400	26.1
24"x16"	600x400	610x419	5x4	400	30.7
24"x18"	600x450	610x457	5x4.5	400	31.8
24"x20"	600x500	610x508	5x5	400	33.5



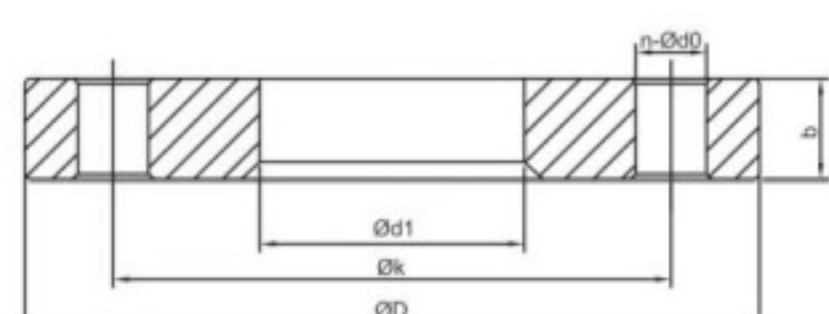
EEMUA234 Copper Nickel Reducers						
specification	OD1xOD2	S1xS2 16bar	S1xS2 20bar	L	Weight 16bar	Weight 20bar
inch	mm	mm	mm	mm	kg	kg
1*3/4	30*25	2.5*2	2.5*2	51	0.09	0.09
1 1/4*1	38*30	2.5*2.5	2.5*2.5	51	0.11	0.11
1 1/4*3/4	38*25	2.5*2	2.5*2	51	0.1	0.1
1 1/2*1 1/4	44.5*38	2.5*2.5	2.5*2.5	64	0.17	0.17
1 1/2*1	44.5*30	2.5*2.5	2.5*2.5	64	0.15	0.15
1 1/2*3/4	44.5*25	2.5*2	2.5*2	64	0.14	0.14
2*1 1/2	57*44.5	2.5*2.5	2.5*2.5	76	0.25	0.25
2*1 1/4	57*38	2.5*2.5	2.5*2.5	76	0.23	0.23
2*1	57*30	2.5*2.5	2.5*2.5	76	0.21	0.21
2 1/2*2	76.1*57	2.5*2.5	2.5*2.5	89	0.4	0.4
2 1/2*1 1/2	76.1*44.5	2.5*2.5	2.5*2.5	89	0.36	0.36
2 1/2*1 1/4	76.1*38	2.5*2.5	2.5*2.5	89	0.34	0.34
3*2 1/2	88.9*76.1	2.5*2.5	2.5*2.5	89	0.5	0.5
3*2	88.9*57	2.5*2.5	2.5*2.5	89	0.44	0.44
3*1 1/2	88.9*44.5	2.5*2.5	2.5*2.5	89	0.4	0.4
4*3	108*88.9	3*2.5	3*2.5	102	0.82	0.82
4*2 1/2	108*76.1	3*2.5	3*2.5	102	0.76	0.76
4*2	108*57	3*2.5	3*2.5	102	0.68	0.68
6*4	159*108	3*3	3.5*3	140	1.54	1.78
6*3	159*88.9	3*2.5	3.5*2.5	140	1.42	1.65
6*2 1/2	159*76.1	3*2.5	3.5*2.5	140	1.35	1.56
6*2	159*57	3*2.5	3.5*2.5	140	1.3	1.5
8*6	219.1*159	4*3	4.5*3.5	152	3.16	3.54
8*4	219.1*108	4*3	4.5*3	152	2.72	3.05
8*3	219.1*88.9	4*2.5	4.5*2.5	152	2.55	2.87
8*2 1/2	219.1*76.1	4*2.5	4.5*2.5	152	2.45	2.74
10*8	267*219.1	4.5*4	5.5*4.5	178	5.36	6.53
10*6	267*159	4.5*3	5.5*3.5	178	4.69	5.7
10*4	267*108	4.5*3	5.5*3	178	4.11	5
12*10	323.9*267	5.5*4.5	7*5.5	203	9.09	11.52
12*8	323.9*219.1	5.5*4	7*4.5	203	8.33	10.55
12*6	323.9*159	5.5*3	7*3.5	203	7.39	9.35
14*12	368*323.9	6.5*5.5	8*7	330	20.44	25.06
14*10	368*267	6.5*4.5	8*5.5	330	18.73	22.95
14*8	368*219.1	6.5*4	8*4.5	330	17.28	21.16
16*14	419*368	7*6.5	9*8	356	27.04	34.6
16*12	419*323.9	7*5.5	9*7	356	25.51	32.62
16*10	419*267	7*4.5	9*5.5	356	23.51	30.05
18*16	457.2*419	8*7	9.5*9	381	36.8	43.7
18*14	457.2*368	8*6.5	9.5*8	381	34.61	41.1
18*12	457.2*323.9	8*5.5	9.5*7	381	32.72	38.85
20*18	508*457.2	8.5*8	11*9.5	508	57.48	74.38
20*16	508*419	8.5*7	11*9	508	55.17	71.39
20*14	508*368	8.5*6.5	11*8	508	52.07	67.38
24*20	610*508	10.5*8.5	13*11	508	82.15	101.7
24*18	610*457.2	10.5*8	13*9.5	508	78.34	96.99
24*16	610*419	10.5*7	13*9	508	75.49	93.46
28*24	711*610	12*10.5	15*13	610	133.3	166.62
28*20	711*508	12*8.5	15*11	610	122.82	153.52
28*18	711*457.2	12*8	15*9.5	610	117.58	146.97
32*28	813*711	13.5*12	17*15	610	173.09	217.96
32*24	813*610	13.5*10.5	17*13	610	161.42	203.26
36*32	914*813	15.5*13.5	19*17	610	301.43	369.49
36*28	914*711	15.5*12	19*15	610	287.89	352.89
36*24	914*610	15.5*10.5	19*13	610	274.48	336.45

ASME B16.9 Copper Nickel Reducers					
specification	OD1xOD2	S1 10S	S2 10S	L	Weight
inch	mm	mm	mm	mm	kg
1*3/4	33.4*26.7	2.77	2.11	51	0.1
1*1/2	33.4*21.3	2.77	2.11	51	0.09
11/4*1	42.2*33.4	2.77	2.77	51	0.12
11/4*3/4	42.2*26.7	2.77	2.11	51	0.11
11/4*1/2	42.2*21.3	2.77	2.11	51	0.105
11/2*11/4	48.3*42.2	2.77	2.77	64	0.19
11/2*1	48.3*33.4	2.77	2.77	64	0.17
11/2*3/4	48.3*26.7	2.77	2.11	64	0.16
11/2*1/2	48.3*21.3	2.77	2.11	64	0.15
2*11/2	60.3*48.3	2.77	2.77	76	0.28
2*11/4	60.3*42.2	2.77	2.77	76	0.26
2*1	60.3*33.4	2.77	2.77	76	0.23
2*3/4	60.3*26.7	2.77	2.11	76	0.22
21/2*2	73*60.3	3.05	2.77	89	0.49
21/2*11/2	73*48.3	3.05	2.77	89	0.44
21/2*11/4	73*42.2	3.05	2.77	89	0.42
21/2*1	73*33.4	3.05	2.77	89	0.4
3*21/2	88.9*73	3.05	3.05	89	0.61
3*2	88.9*60.3	3.05	2.77	89	0.54
3*11/2	88.9*48.3	3.05	2.77	89	0.49
3*11/4	88.9*42.2	3.05	2.77	89	0.48
4*3	114.3*88.9	3.05	3.05	102	0.84
4*21/2	114.3*73	3.05	3.05	102	0.78
4*2	114.3*60.3	3.05	2.77	102	0.7
4*11/2	114.3*48.3	3.05	2.77	102	0.68
6*4	168.3*114.3	3.4	3.05	140	1.74
6*3	168.3*88.9	3.4	3.05	140	1.6
6*21/2	168.3*73	3.4	3.05	140	1.53
8*6	219.1*168.3	3.76	3.4	152	3
8*4	219.1*114.3	3.76	3.05	152	2.6
10*8	273*219.1	4.19	3.76	178	5.76
10*6	273*168.3	4.19	3.4	178	5.02
10*4	273*114.3	4.19	3.05	178	4.4
12*10	323.8*273	4.57	4.19	203	7.56
12*8	323.8*219.1	4.57	3.76	203	6.92
12*6	323.8*168.3	4.57	3.4	203	6.14
14*12	355.6*323.8	4.78	4.57	330	15.03
14*10	355.6*273	4.78	4.19	330	13.77
14*8	355.6*219.1	4.78	3.76	330	12.7
14*6	355.6*168.3	4.78	3.4	330	12.06
16*14	406.4*355.6	4.78	4.78	356	18.47
16*12	406.4*323.8	4.78	4.57	356	17.43
16*10	406.4*273	4.78	4.19	356	16.06
16*8	406.4*219	4.78	3.76	356	15.26
18*16	457*406.4	4.78	4.78	381	21.99
18*14	457*355.6	4.78	4.78	381	20.68
18*12	457*323.8	4.78	4.57	381	19.55
18*10	457*273	4.78	4.19	381	18.58
20*18	508*457	5.54	4.78	508	37.48
20*16	508*406.4	5.54	4.78	508	35.97
20*14	508*355.6	5.54	4.78	508	33.95
20*12	508*323.8	5.54	4.57	508	31.92
24*20	610*508	6.35	5.54	508	49.7
24*18	610*457	6.35	4.78	508	47.4
24*16	610*406.4	6.35	4.78	508	45.67

Copper Nickel Flanges

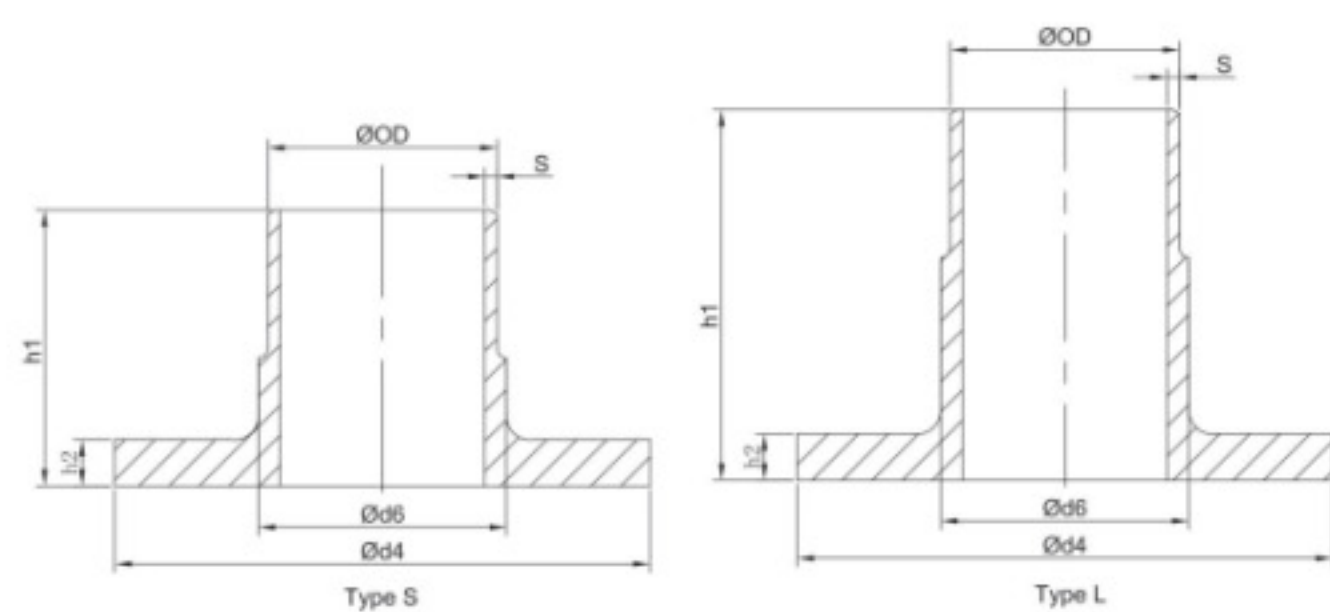


DIN86037 Inner Flange							
specification	OD	D	D1	H	S	B	Weight
	mm	mm	mm	mm	mm	mm	kg
DN20	25	58	27	40	1.5	5	0.15
DN25	30	68	32	40	1.5	5	0.2
DN32	38	78	40	40	1.5	5	0.25
DN40	44.5	88	46.5	45	1.5	6	0.36
DN50	57	102	59	45	1.5	6	0.45
DN65	76	122	78	45	2	6	0.62
DN80	89	138	91	50	2	7	0.86
DN100	108	158	110	50	2.5	7	1.1
DN125	133	188	135.5	50	2.5	7	1.5
DN150	159	212	161.5	50	2.5	9	2
DN 175	194	242	197	50	3	9	2.4
DN200	219	268	222	50	3	9	2.7
DN250	267	320	270	50	3	9	3.4
DN300	324	370	327	50	4	11	4.6
DN350	368	430	371	50	4	11	6.3
DN400	419	482	422	50	4	12	7.5
DN450	457	530	460	50	4.5	12	9.2
DN500	508	585	511	50	5	12	11.2
DN600	610	685	613	60	5	14	15.3
DN700	711	800	714	60	6	14	21
DN800	813	905	816	60	6	14	24
DN900	914	1000	918	60	8	14	29

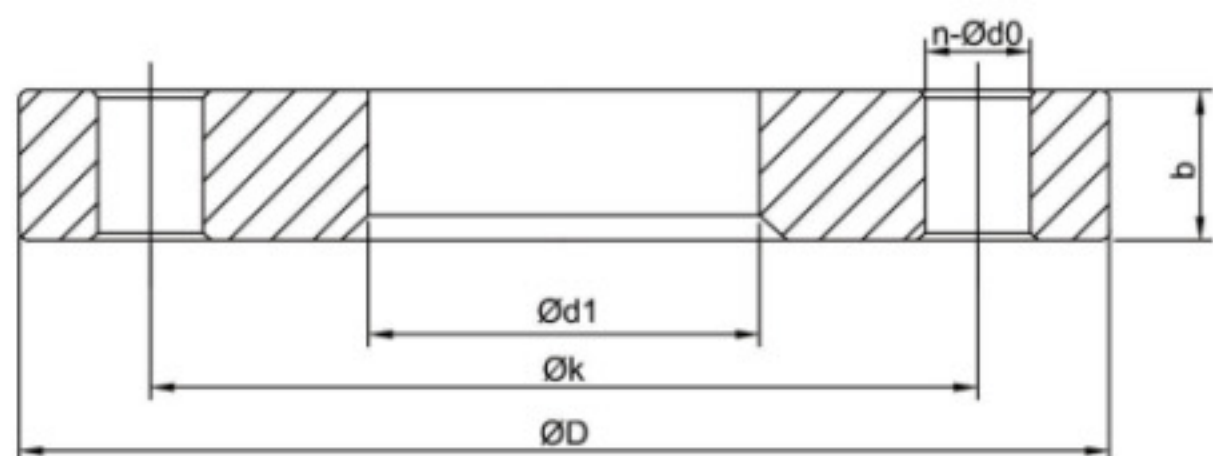


DIN86037 DN20-DN150 PN10/PN16 DN175-DN900 PN10 Outer Flange						
specification	D	k	d1	b	n-Ød0	Weight
	mm	mm	mm	mm		kg
DN20	105	75	29	14	4-Ø14	0.81
DN25	115	85	35	16	4-Ø14	1.11
DN32	140	100	42.5	16	4-Ø18	1.64
DN40	150	110	48	16	4-Ø18	1.86
DN50	165	125	62	16	4-Ø18	2.2
DN65	185	145	81	16	4-Ø18	2.62
DN80	200	160	94	18	8-Ø18	3.32
DN100	220	180	113	18	8-Ø18	3.67
DN125	250	210	138.5	18	8-Ø18	4.54
DN150	285	240	164.5	18	8-Ø22	5.6
DN 175	315	270	200	22	8-Ø22	7.6
DN200	340	295	225	20	8-Ø22	7.46
DN250	395	350	273	22	12-Ø22	10.3
DN300	445	400	331	24	12-Ø22	12.1
DN350	505	460	375	24	16-Ø22	15.7
DN400	565	515	426	26	16-Ø26	20.1
DN450	615	565	465	28	20-Ø26	25.4
DN500	670	620	516	30	20-Ø26	30.8
DN600	780	725	618	32	20-Ø30	40.5
DN700	895	840	720	34	24-Ø30	54
DN800	1015	950	822	38	24-Ø33	76.1
DN900	1115	1050	924	42	28-Ø33	92

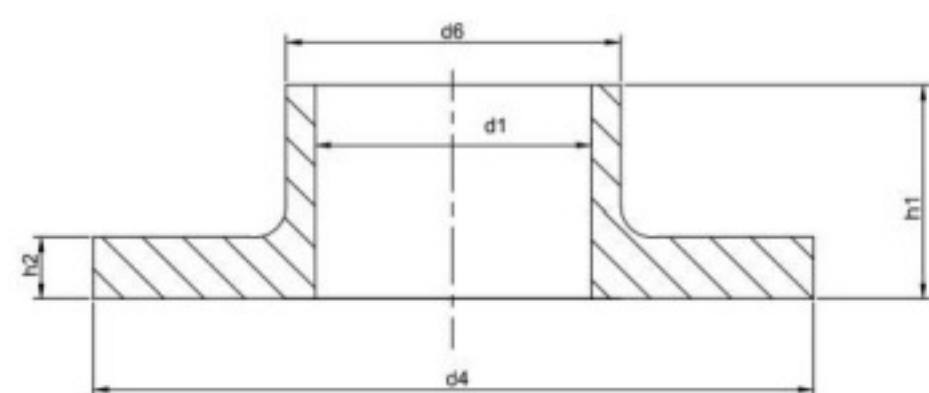
DIN86037 PN16 Outer Flange						
specification	D	k	d1	b	n-Ød0	Weight
	mm	mm	mm	mm		kg
DN175	315	270	200	22	8-Ø22	7.5
DN200	340	295	225	22	12-Ø22	8
DN250	405	355	273	24	12-Ø26	12
DN300	460	410	331	28	12-Ø26	16
DN350	520	470	375	32	16-Ø26	23
DN400	580	525	426	36	16-Ø30	31



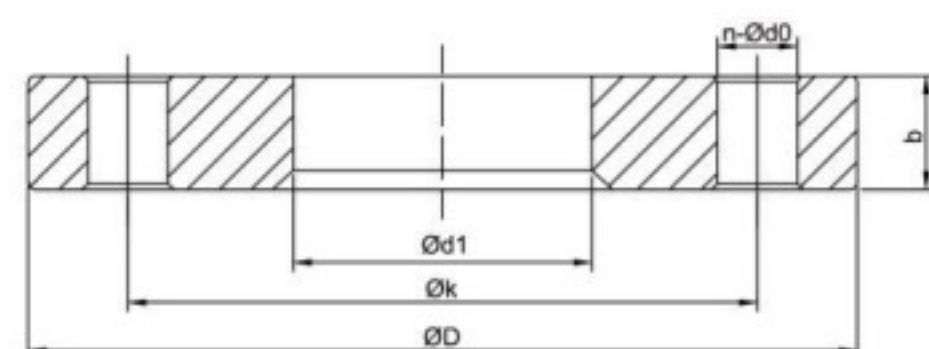
EEMUA234 Stub End												
specific ation	OD	d4	d6	Type Sh1	Type Lh1	h2	s	s	Weight Type S	Weight Type S	Weight Type L	Weight Type L
							16bar	20bar	16bar	20bar	16bar	20bar
inch	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg	kg
1/2"	16	40	18	35	51	4	2	2	0.07	0.07	0.09	0.09
3/4"	25	50	27	40	51	5	2	2	0.16	0.16	0.19	0.19
1"	30	60	32	40	51	5	2.5	2.5	0.2	0.2	0.23	0.23
1 1/4"	38	70	40	40	51	5	2.5	2.5	0.25	0.25	0.29	0.29
1 1/2"	44.5	80	46.5	45	51	6	2.5	2.5	0.42	0.42	0.44	0.44
2"	57	99	59	45	64	6	2.5	2.5	0.5	0.5	0.61	0.61
2 1/2"	76.1	120	78	45	64	6	2.5	2.5	0.67	0.67	0.8	0.8
3"	88.9	130	91	50	64	7	2.5	2.5	0.86	0.86	0.97	0.97
4"	108	158	110	50	76	7	3	3	1.2	1.2	1.5	1.5
6"	159	212	161.5	50	89	9	3	3.5	2.2	2.25	2.9	3
8"	219.1	270	222	50	102	9	4	4.5	3.2	3.3	5.1	5.2
10"	267	320	270	50	127	9	4.5	5.5	3.9	4.2	8.9	9.8
12"	323.9	370	327	50	152	11	5.5	7	6.5	6.8	13.8	15.4
14"	368	430	371	50	152	11	6.5	8	7.45	8.2	16.6	19
16"	419	482	422	50	152	12	7	9	9.2	10.35	20.25	23.95
18"	457.2	530	460	50	152	12	8	9.5	11.45	12.4	23.6	26.4
20"	508	585	511	50	152	12	8.5	11	13.4	15.1	28.65	33.85
24"	610	685	613	60	152	14	10.5	13	20.75	23.25	39.25	45.5
28"	711	800	719	60	190	19	12	15	33.35	36.8	75.3	86.2
32"	813	905	821	60	190	20.5	13.5	17	42.25	46.85	94.6	100.15
36"	914	1000	922	60	190	22	15.5	19	49.35	54.55	115.55	131.95



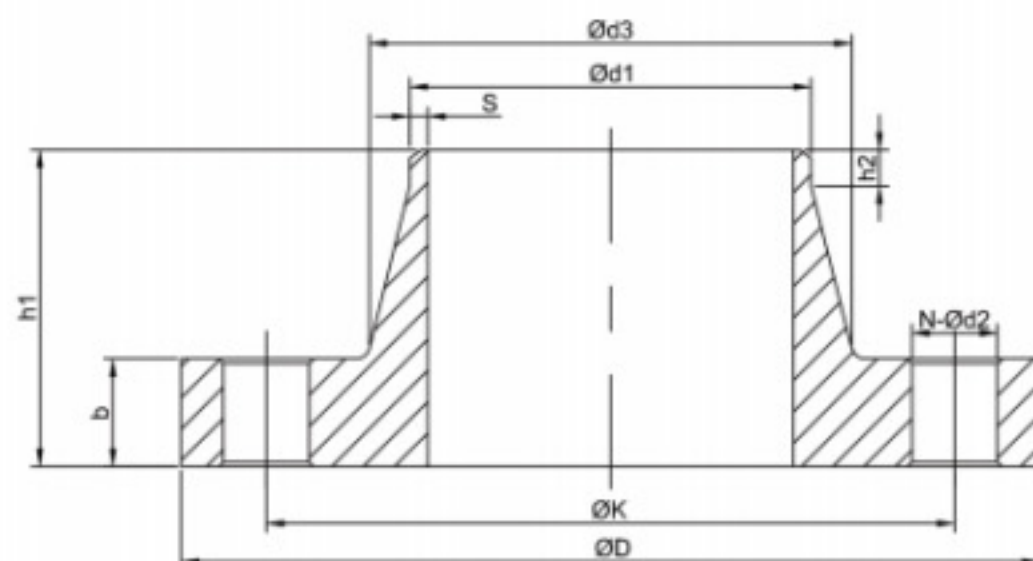
EEMUA234 CL150 Backing Flange						
Specification	D	k	d1	b	n-Ød0	Weight
inch	mm	mm	mm	mm		kg
1/2"	89	60.3	19	14	4-15.9	0.6
3/4"	98	69.8	28	14	4-15.9	0.8
1"	108	79.4	33	14	4-15.9	0.9
1 1/4"	117	88.9	41	14	4-15.9	1.1
1 1/2"	127	98.4	48	14	4-15.9	1.2
2"	152	120.6	62	18	4-19	2.1
2 1/2"	178	139.7	81	18	4-19	2.6
3"	190	152.4	94	19	4-19	2.9
4"	229	190.5	113	24	8-19	5.9
6"	279	241.3	164	27	8-22.2	8.4
8"	343	298.4	225	31	8-22.2	12.35
10"	406	362	273	38	12-25.4	19.7
12"	483	431.8	330	41	12-25.4	32.2
14"	533	476.2	374	45	12-28.6	38.2
16"	597	539.8	426	51	16-28.6	52.15
18"	635	577.8	465	52	16-31.8	54.05
20"	698	635	517	58	20-31.8	73.2
24"	813	749.3	618	71	20-34.9	114.25
28"	927	864	727	81	28-34.9	151.8
32"	1060	978	829	95	28-41.1	233.5
36"	1168	1086	931	105	32-41.1	294.1



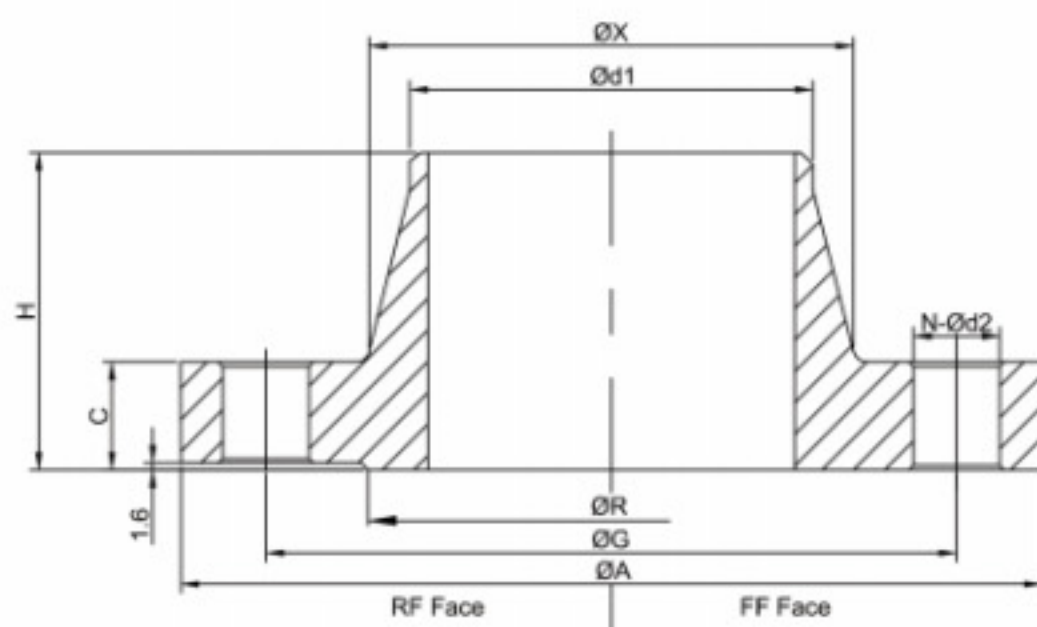
EEMUA234 Slip On Stub End						
Specification	d1	d6	d4	h1	h2	Weight
inch	mm	mm	mm	mm	mm	kg
1/2"	16.07	21	40	16	5	0.06
3/4"	25.08	31	53	16	5	0.1
1"	30.08	36	60	18	5	0.14
1 1/4"	38.1	45	70	18	5	0.2
1 1/2"	44.6	51	80	19	5	0.3
2"	57.23	67	99	19	6	0.4
2 1/2"	76.33	87	120	19	6	0.5
3"	89.18	100	130	21	7	0.7
4"	108.38	120	158	23	7	0.9



EEMUA234 CL150 Backing Flange						
specification	D	k	d1	b	n-Ød0	Weight
inch	mm	mm	mm	mm		kg
1/2"	89	60.3	23	14	4-15.9	0.75
3/4"	98	69.8	33	14	4-15.9	0.8
1"	108	79.4	38	14	4-15.9	0.95
1 1/4"	117	88.9	47	14	4-15.9	1.1
1 1/2"	127	98.4	53	14	4-15.9	1.15
2"	152	120.6	69	18	4-19	2.1
2 1/2"	178	139.7	89	18	4-19	2.6
3"	190	152.4	103	19	4-19	2.9
4"	229	190.5	123	24	8-19	5.9

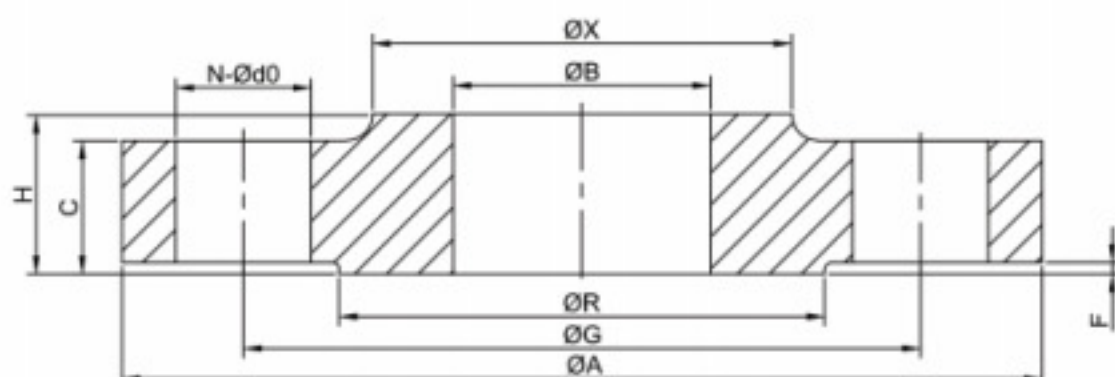


EEMUA234 Weld Neck Flange												
Specification	d1	D	b	K	h1	d3	S16bar	S20bar	h2	N-Ød2	Weight 16bar	Weight 20bar
inch	mm	mm	mm	mm	mm	mm	mm	mm	mm		kg	kg
1/2"	16	89	14	60.3	48	23	2	2	8	4-15.9	0.74	0.74
3/4"	25	98	16	69.8	52	32	2	2	7	4-15.9	1.04	1.04
1"	30	108	16	79.4	56	42	2.5	2.5	8	4-15.9	1.36	1.36
1 1/4"	38	117	17	88.9	57	51	2.5	2.5	8	4-15.9	1.7	1.7
1 1/2"	44.5	127	20	98.4	62	61	2.5	2.5	7	4-15.9	2.38	2.38
2"	57	152	25	120.6	64	73	2.5	2.5	9	4-19	3.93	3.93
2 1/2"	76.1	178	27	139.7	70	91	2.5	2.5	8	4-19	5.62	5.62
3"	88.9	190	27	152.4	70	105	2.5	2.5	8	4-19	6.27	6.27
4"	108	229	27	190.5	76	135	3	3	8	8-19	9.53	9.53
6"	159	279	27	241.3	89	192	3	3.5	8	8-22.2	13.65	13.99
8"	219.1	343	31	298.4	98	246	4	4.5	8	8-22.2	21.19	21.57
10"	267	406	31	362	98	305	4.5	5.5	8	12-25.4	29.52	30.47
12"	323.9	483	35	431.8	98	365	5.5	7	8	12-25.4	44.77	46.56
14"	368	533	41	476.2	99	400	6.5	8	8	12-28.6	57.52	59.49
16"	419	597	43	539.8	106	457	7	9	8	16-28.6	74.1	78.03
18"	457.2	635	45	577.8	113	505	8	9.5	8	16-31.8	88.16	91.08
20"	508	698	45	635	118	559	8.5	11	8	20-31.8	106.2	110.65
24"	610	813	49	749.3	137	664	10.5	13	8	20-34.9	153.15	160.79
28"	711	927	72	864	145	748	12	15	8	28-34.9	255.28	249.09
32"	813	1060	72	978	160	876	13.5	17	8	28-41.1	291.45	303.95
36"	914	1168	72	1086	175	984	15.5	19	8	32-41.1	356.45	371.8

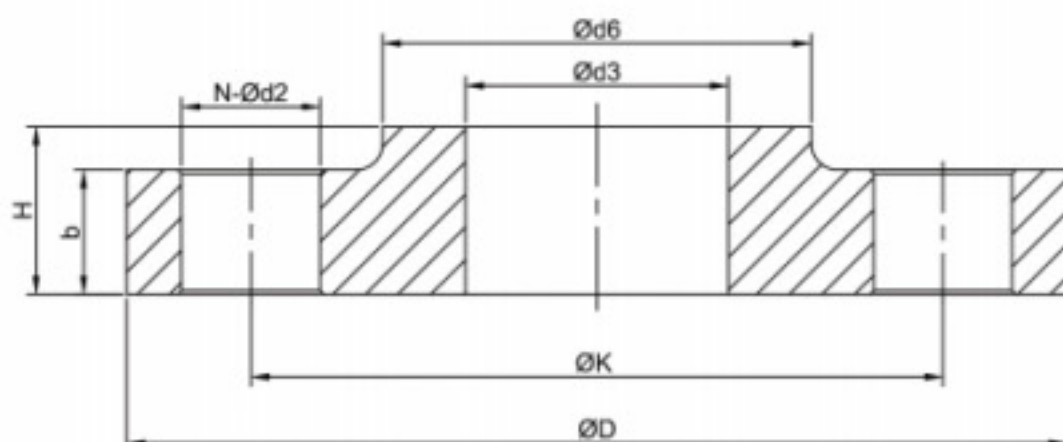


ASME B16.5 CL150 Welding Neck Flange									
Specification	d1	A	H	C	X	R	G	N-Ød2	Weight
inch	mm	mm	mm	mm	mm	mm	mm		kg
1/2"	21.3	88.9	47.6	11.2	30.2	34.9	60.3	4-15.9	0.68
3/4"	26.7	98.4	52.4	12.7	38.1	42.9	69.8	4-15.9	0.91
1"	33.4	107.9	55.6	14.3	49.2	50.8	79.4	4-15.9	1.25
1 1/4"	42.2	117.5	57.1	15.9	58.7	63.5	88.9	4-15.9	1.58
1 1/2"	48.3	127	61.9	17.5	65.1	73	98.4	4-15.9	2.05
2"	60.3	152.4	63.5	19.1	77.8	92.1	120.6	4-19	3.05
2 1/2"	73	177.8	69.8	22.2	90.5	104.8	139.7	4-19	5.1
3"	88.9	190.5	69.8	23.8	107.9	127	152.4	4-19	5.2
4"	114.3	228.6	76.2	23.8	134.9	157.2	190.5	8-19	7.9
5"	141.3	254	88.9	23.8	163.5	185.7	215.9	8-22.2	10.1
6"	168.3	279.4	88.9	25.4	192.1	215.9	241.3	8-22.2	12.2
8"	219.1	342.9	101.6	28.6	246.1	269.9	298.4	8-22.2	20
10"	273	406.4	101.6	30.2	304.8	323.8	361.9	12-25.4	27
12"	323.8	482.6	114.3	31.8	365.1	381	431.8	12-25.4	42
14"	355.6	533.4	127	34.9	400	412.8	476.2	12-28.6	53
16"	406.4	596.9	127	36.5	457.2	469.9	539.7	16-28.6	66
18"	457	635	139.7	39.7	504.8	533.4	577.8	16-31.7	72
20"	508	698.5	144.5	42.9	558.8	584.2	635	20-31.7	87
24"	610	812.8	152.4	47.6	633.6	692.1	749.3	20-34.9	134

ASME B16.5 CL300 Welding Neck Flange									
Specification	d1	A	H	C	X	R	G	N-Ød2	Weight
inch	mm	mm	mm	mm	mm	mm	mm		kg
1/2"	21.3	95.2	52.4	14.3	38.1	34.9	66.7	4-15.9	1.72
3/4"	26.7	117.5	57.1	15.9	47.6	42.9	82.5	4-19	2.06
1"	33.4	123.8	61.9	17.5	54	50.8	88.9	4-19	2.29
1 1/4"	42.2	133.3	65.1	19	63.5	63.5	98.4	4-19	2.86
1 1/2"	48.3	155.6	68.3	20.6	69.8	73	114.3	4-22.2	4.01
2"	60.3	165.1	69.8	22.2	84.1	92.1	127	8-19	4.58
2 1/2"	73	190.5	76.2	25.4	100	104.8	149.2	8-22.2	5.73
3"	88.9	209.5	79.4	28.6	117.5	127	168.3	8-22.2	8.02
4"	114.3	254	85.7	31.8	146.1	157.2	200	8-22.2	12.6
5"	141.3	279.4	98.4	34.9	177.8	185.7	234.9	8-22.2	17.9
6"	168.3	317.5	98.4	36.5	206.4	215.9	269.9	12-22.2	21.76
8"	219.1	381	111.1	41.3	260.4	269.9	330.2	12-25.4	34.35
10"	273	444.5	117.5	47.6	320.7	323.8	387.3	16-28.6	46.95
12"	323.8	520.7	130.2	50.8	374.6	381	450.8	16-31.7	70.99
14"	355.6	584.2	142.9	54	425.4	412.8	514.3	20-31.7	96.18
16"	406.4	647.7	146.1	57.2	482.6	469.9	571.5	20-34.9	127.1
18"	457	711.2	158.7	60.3	533.3	533.4	628.6	24-34.9	158.01
20"	508	774.7	161.9	63.5	587.4	584.2	685.8	24-34.9	195.8
24"	610	914.4	168.3	69.8	701.7	692.1	812.8	24-41.3	283

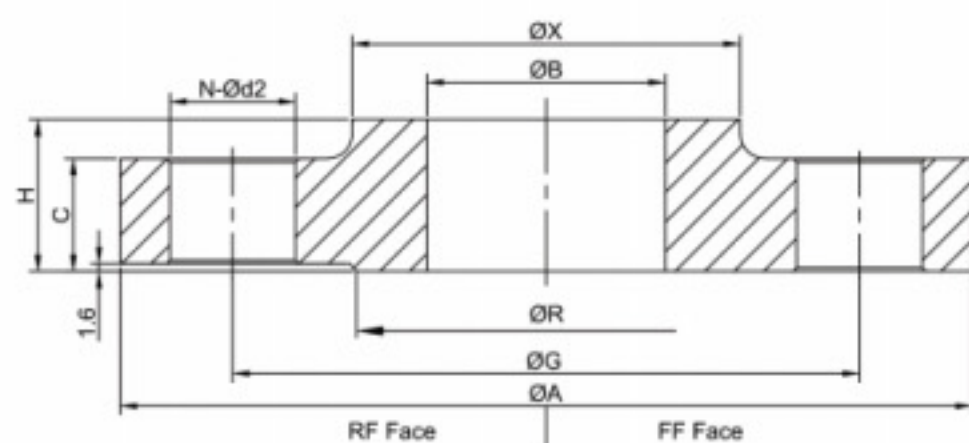


DIN 86033 Slip On Flange										
Specification	A	H	C	X	R	B	F	G	N-Ød0	Weight
inch	mm	mm	mm	mm	mm	mm	mm	mm		kg
3/8	90	18	12	26	40	16.2	2	60	4-14	0.52
1/2	95	18	12	30	45	20.2	2	65	4-14	0.57
3/4	105	18	12	35	58	25.2	2	75	4-14	0.71
1	115	18	12	40	68	30.2	2	85	4-14	0.86
1 1/4	140	20	14	49	78	38.25	2	100	4-18	1.47
1 1/2	150	20	14	56	88	44.75	3	110	4-18	1.6
2	165	22	16	69	102	57.3	3	125	4-18	2.2
2 1/2	185	22	16	88	122	76.3	3	145	4-18	2.66
3	200	24	18	101	138	89.4	3	160	8-18	3.32
4	220	28	20	120	158	108.4	5	180	8-18	4.31
5	250	28	20	146	188	133.65	5	210	8-18	5.37
6	285	30	22	172	212	159.65	5	240	8-23	6.37
7	315	32	22	209	242	195	5	270	8-23	7.22
8	340	32	24	234	268	220	5	295	8-23	9.12
10	395	34	26	284	320	268.2	6	350	12-23	12.1
12	445	36	26	343	370	325.35	6	400	12-23	13.7
14	505	38	28	389	430	369.35	6	460	16-23	19.3
16	565	40	28	442	482	420.5	6	515	16-27	23.2
18	615	42	28	482	530	458.5	6	565	20-27	27.9
20	670	47	31	535	585	509.5	7	620	20-27	35
24	780	49	31	640	685	612	8	725	20-30	42.9



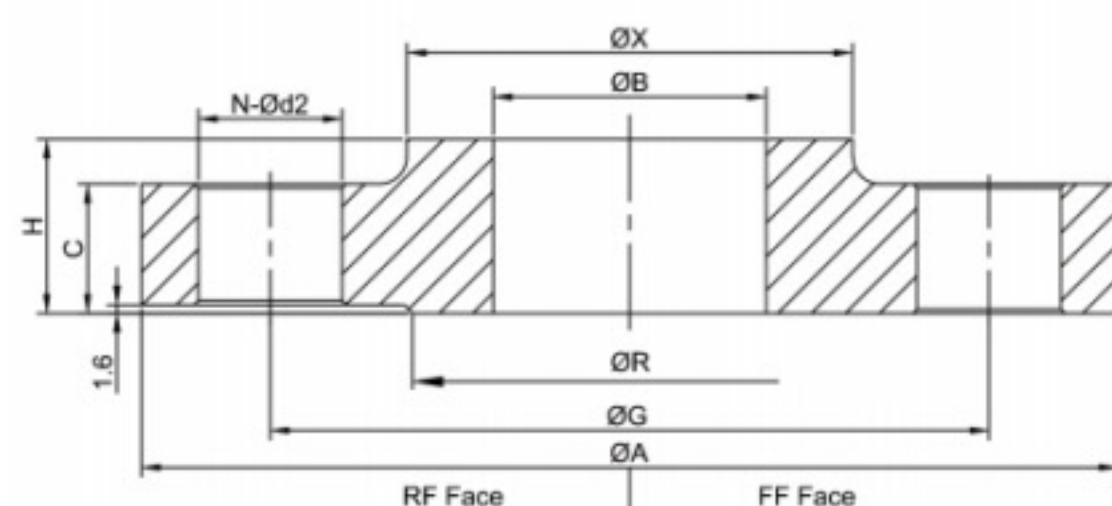
EEMUA234 Slip On Flange

Specification	D	b	d3	d6	h1	k	N-d2	Weight
inch	mm	mm	mm	mm	mm	mm		kg
1/2"	89	14	16.07	23	20	60.3	4-15.9	1.15
3/4"	98	16	25.08	32	24	69.8	4-15.9	1.2
1"	108	16	30.08	47	24	79.4	4-15.9	1.3
1 1/4"	117	17	38.1	51	26	88.9	4-15.9	1.7
1 1/2"	127	20	44.6	61	26	98.4	4-15.9	1.8
2"	152	25	57.23	73	28	120.6	4-19	2.9
2 1/2"	178	27	76.33	91	32	139.7	4-19	4.3
3"	190	27	89.18	105	34	152.4	4-19	4.4
4"	229	27	108.38	135	40	190.5	8-19	7.3

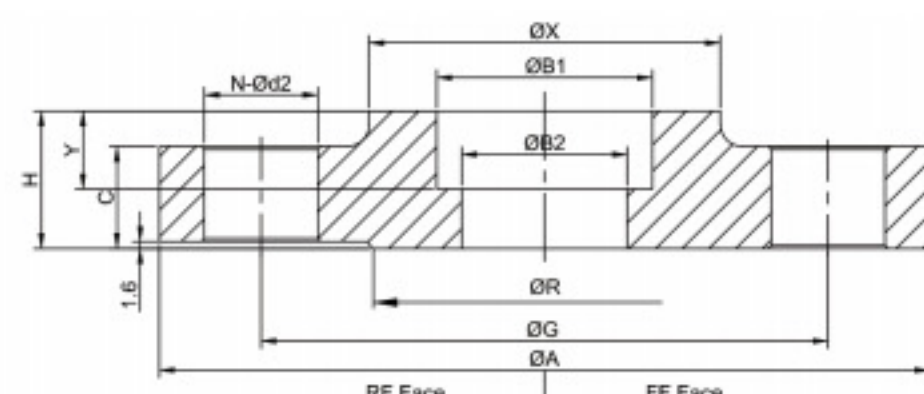


ASNE B16.5 CL150 Slip On Flange

Specification	d1	A	H	C	X	R	B	G	N-Ød2	Weight
inch	mm	mm	mm	mm	mm	mm	mm	mm		kg
1/2"	21.3	88.9	15.9	11.2	30.2	34.9	22.4	60.3	4-15.9	0.9
3/4"	26.7	98.4	15.9	12.7	38.1	42.9	27.7	69.8	4-15.9	1.1
1"	33.4	107.9	17.5	14.3	49.2	50.8	34.5	79.4	4-15.9	1.2
1 1/4"	42.2	117.5	20.6	15.9	58.7	63.5	43.2	88.9	4-15.9	1.5
1 1/2"	48.3	127	22.2	17.5	65.1	73	49.5	98.4	4-15.9	1.6
2"	60.3	152.4	25.4	19.1	77.8	92.1	61.9	120.6	4-19	2.7
2 1/2"	73	177.8	28.6	22.2	90.5	104.8	74.7	139.7	4-19	4.1
3"	88.9	190.5	30.2	23.8	107.9	127	90.7	152.4	4-19	5.1
4"	114.3	228.6	33.3	23.8	134.9	157.2	116.1	190.5	8-19	7
5"	141.3	254	36.5	23.8	163.5	185.7	143.8	215.9	8-22.2	8
6"	168.3	279.4	39.7	25.4	192.1	215.9	170.7	241.3	8-22.2	9.9
8"	219.1	342.9	44.4	28.6	246.1	269.9	221.5	298.4	8-22.2	15.7
10"	273	406.4	49.2	30.2	304.8	323.8	276.4	361.9	12-25.4	22.8
12"	323.8	482.6	55.6	31.8	365.1	381	327.2	431.8	12-25.4	33.9
14"	355.6	533.4	57.1	34.9	400	412.8	359.2	476.2	12-28.6	45
16"	406.4	596.9	63.5	36.5	457.2	469.9	410.5	539.7	16-28.6	49
18"	457	635	68.3	39.7	504.8	533.4	461.8	577.8	16-31.7	63
20"	508	698.5	73	42.9	558.8	584.2	513.1	635	20-31.7	81.5
24"	610	812.8	82.5	47.6	633.6	692.1	616	749.3	20-34.9	105.55

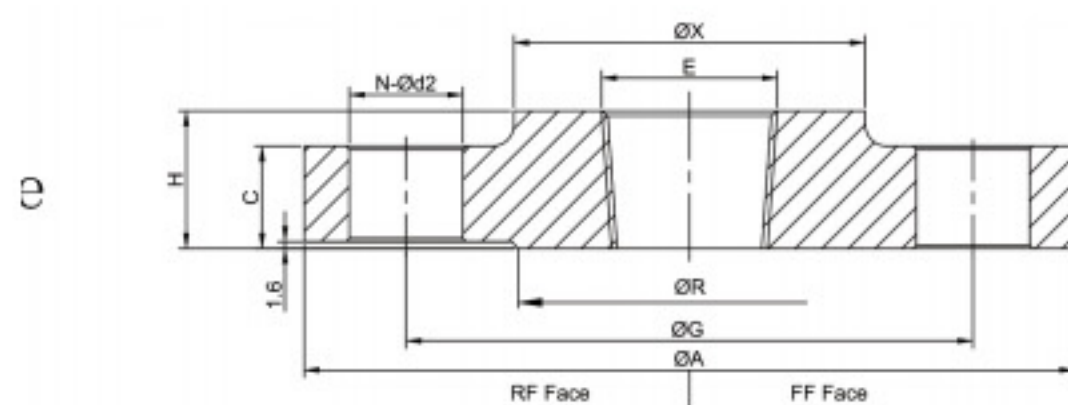


ASNE B16.5 CL300 Slip On Flange										
Specification	d1	A	H	C	X	R	B	G	N-Ød2	Weight
inch	mm	mm	mm	mm	mm	mm	mm	mm		kg
1/2"	21.3	95.2	22.2	14.3	38.1	34.9	22.4	66.7	4-15.9	0.9
3/4"	26.7	117.5	25.4	15.9	47.6	42.9	27.7	82.5	4-19	1.4
1"	33.4	123.8	27	17.5	54	50.8	34.5	88.9	4-19	1.7
1 1/4"	42.2	133.3	27	19	63.5	63.5	43.2	98.4	4-19	2
1 1/2"	48.3	155.6	30.2	20.6	69.8	73	49.5	114.3	4-22.2	3
2"	60.3	165.1	33.3	22.2	84.1	92.1	61.9	127	8-19	3.4
2 1/2"	73	190.5	38.1	25.4	100	104.8	74.7	149.2	8-22.2	5.1
3"	88.9	209.5	42.9	28.6	117.5	127	90.7	168.3	8-22.2	6.8
4"	114.3	254	47.6	31.8	146.1	157.2	116.1	200	8-22.2	11.3
5"	141.3	279.4	50.8	34.9	177.8	185.7	143.8	234.9	8-22.2	14.2
6"	168.3	317.5	52.4	36.5	206.4	215.9	170.7	269.9	12-22.2	18.3
8"	219.1	381	61.9	41.3	260.4	269.9	221.5	330.2	12-25.4	28.2
10"	273	444.5	66.7	47.6	320.7	323.8	276.4	387.3	16-28.6	29.5
12"	323.8	520.7	73	50.8	374.6	381	327.2	450.8	16-31.7	57.7
14"	355.6	584.2	76.2	54	425.4	412.8	359.2	514.3	20-31.7	80.6
16"	406.4	647.7	82.5	57.2	482.6	469.9	410.5	571.5	20-34.9	102.1
18"	457	711.2	88.9	60.3	533.3	533.4	461.8	628.6	24-34.9	125.2
20"	508	774.7	95.2	63.5	587.4	584.2	513.1	685.8	24-34.9	154.7
24"	610	914.4	106.4	69.8	701.7	692.1	616	812.8	24-41.3	240.65



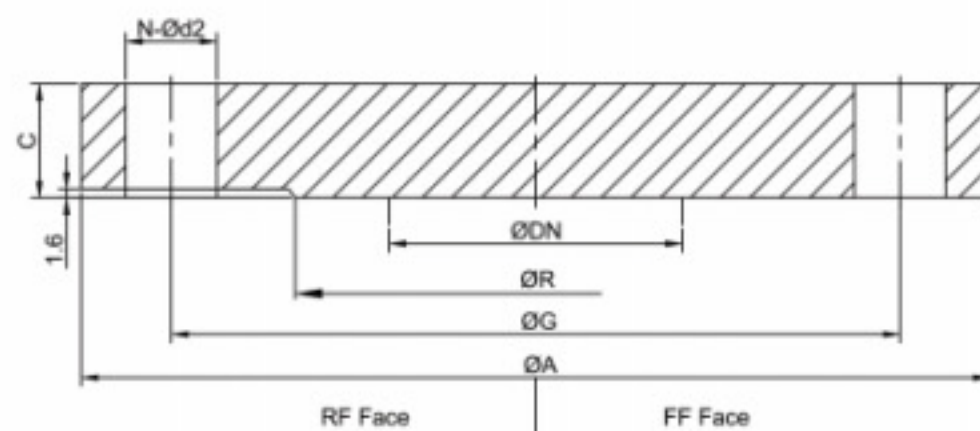
ASME B16.5 CL150 SW Flange												
specification	d1	A	H	C	X	R	B1	B2	Y	G	N-Ød2	Weight
inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		kg
1/2"	21.3	88.9	15.9	11.2	30.2	34.9	22.4	15.7	9.5	60.3	4-15.9	0.8
3/4"	26.7	98.4	15.9	12.7	38.1	42.9	27.7	20.8	11.1	69.8	4-15.9	1.1
1"	33.4	107.9	17.5	14.3	49.2	50.8	34.5	26.7	12.7	79.4	4-15.9	1.2
1 1/4"	42.2	117.5	20.6	15.9	58.7	63.5	43.2	35.1	14.3	88.9	4-15.9	1.5
1 1/2"	48.3	127	22.2	17.5	65.1	73	49.5	40.9	15.9	98.4	4-15.9	1.6
2"	60.3	152.4	25.4	19.1	77.8	92.1	61.9	52.6	17.5	120.6	4-19	2.7
2 1/2"	73	177.8	28.6	22.2	90.5	104.8	74.7	62.7	19	139.7	4-19	4.1
3"	88.9	190.5	30.2	23.8	107.9	127	90.7	78	20.6	152.4	4-19	5.1
4"	114.3	228.6	33.3	23.8	134.9	157.2	116.1	102.4	23.8	190.5	8-19	7

ASME B16.5 CL300 SW Flange												
specification	d1	A	H	C	X	R	B1	B2	Y	G	N-Ød2	Weight
inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		kg
1/2"	21.3	95.2	22.2	14.3	38.1	34.9	22.4	15.7	9.5	66.7	4-15.9	0.9
3/4"	26.7	117.5	25.4	15.9	47.6	42.9	27.7	20.8	11.1	82.5	4-19	1.4
1"	33.4	123.8	27	17.5	54	50.8	34.5	26.7	12.7	88.9	4-19	1.7
1 1/4"	42.2	133.3	27	19	63.5	63.5	43.2	35.1	14.3	98.4	4-19	2
1 1/2"	48.3	155.6	30.2	20.6	69.8	73	49.5	40.9	15.9	114.3	4-22.2	3
2"	60.3	165.1	33.3	22.2	84.1	92.1	61.9	52.6	17.5	127	8-19	3.4
2 1/2"	73	190.5	38.1	25.4	100	104.8	74.7	62.7	19	149.2	8-22.2	5.1
3"	88.9	209.5	42.9	28.6	117.5	127	90.7	78	20.6	168.3	8-22.2	6.8
4"	114.3	254	47.6	31.8	146.1	157.2	116.1	102.4	23.8	200	8-22.2	11.3



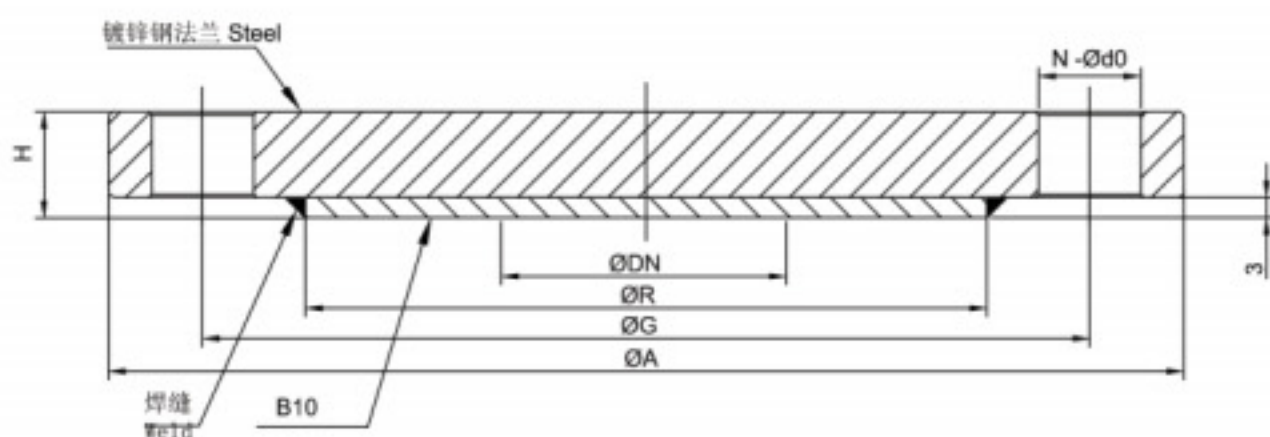
ASME B16.5 CL150 Threaded Flange										
Specification	d1	A	H	C	X	R	E	G	N-Ød2	Weight
inch	mm	mm	mm	mm	mm	mm	mm	mm		kg
1/2"	21.3	88.9	15.9	11.2	30.2	34.9	1/2"FNPT	60.3	4-15.9	0.8
3/4"	26.7	98.4	15.9	12.7	38.1	42.9	3/4"FNPT	69.8	4-15.9	1.1
1"	33.4	107.9	17.5	14.3	49.2	50.8	1"FNPT	79.4	4-15.9	1.2
1 1/4"	42.2	117.5	20.6	15.9	58.7	63.5	1 1/4"FNPT	88.9	4-15.9	1.5
1 1/2"	48.3	127	22.2	17.5	65.1	73	1 1/2"FNPT	98.4	4-15.9	1.6
2"	60.3	152.4	25.4	19.1	77.8	92.1	2"FNPT	120.6	4-19	2.7
2 1/2"	73	177.8	28.6	22.2	90.5	104.8	2 1/2"FNPT	139.7	4-19	4.1
3"	88.9	190.5	30.2	23.8	107.9	127	3"FNPT	152.4	4-19	5.1
4"	114.3	228.6	33.3	23.8	134.9	157.2	4"FNPT	190.5	8-19	7

ASME B16.5 CL300 Threaded Flange										
specification	d1	A	H	C	X	R	E	G	N-Ød2	Weight
inch	mm	mm	mm	mm	mm	mm	mm	mm		kg
1/2"	21.3	95.2	22.2	14.3	38.1	34.9	1/2"FNPT	66.7	4-15.9	0.9
3/4"	26.7	117.5	25.4	15.9	47.6	42.9	3/4"FNPT	82.5	4-19	1.4
1"	33.4	123.8	27	17.5	54	50.8	1"FNPT	88.9	4-19	1.7
1 1/4"	42.2	133.3	27	19	63.5	63.5	1 1/4"FNPT	98.4	4-19	2
1 1/2"	48.3	155.6	30.2	20.6	69.8	73	1 1/2"FNPT	114.3	4-22.2	3
2"	60.3	165.1	33.3	22.2	84.1	92.1	2"FNPT	127	8-19	3.4
2 1/2"	73	190.5	38.1	25.4	100	104.8	2 1/2"FNPT	149.2	8-22.2	5.1
3"	88.9	209.5	42.9	28.6	117.5	127	3"FNPT	168.3	8-22.2	6.8
4"	114.3	254	47.6	31.8	146.1	157.2	4"FNPT	200	8-22.2	11.3



ASME B16.5 CL150 Blind Flange							
Specification	DN	A	C	R	G	N-Ød2	Weight
inch	mm	mm	mm	mm	mm		kg
1/2"	15	88.9	11.2	34.9	60.3	4-15.9	0.9
3/4"	20	98.4	12.7	42.9	69.8	4-15.9	1.05
1"	25	107.9	14.3	50.8	79.4	4-15.9	1.15
1 1/4"	32	117.5	15.9	63.5	88.9	4-15.9	1.5
1 1/2"	40	127	17.5	73	98.4	4-15.9	1.6
2"	50	152.4	19.1	92.1	120.6	4-19	3.05
2 1/2"	65	177.8	22.2	104.8	139.7	4-19	4.7
3"	80	190.5	23.8	127	152.4	4-19	5.8
4"	100	228.6	23.8	157.2	190.5	8-19	9.1
5"	125	254	23.8	185.7	215.9	8-22.2	10.25
6"	150	279.4	25.4	215.9	241.3	8-22.2	13.7
8"	200	342.9	28.6	269.9	298.4	8-22.2	22.8
10"	250	406.4	30.2	323.8	361.9	12-25.4	36.45
12"	300	482.6	31.8	381	431.8	12-25.4	57
14"	350	533.4	34.9	412.8	476.2	12-28.6	67.25
16"	400	596.9	36.5	469.9	539.7	16-28.6	87.8
18"	450	635	39.7	533.4	577.8	16-31.7	108.3
20"	500	698.5	42.9	584.2	635	20-31.7	140.25
24"	600	812.8	47.6	692.1	749.3	20-34.9	212.05

ASNE B16.5 CL300 Blind Flange							
Specification	DN	A	C	R	G	N-Ød2	Weight
inch	mm	mm	mm	mm	mm		kg
1/2"	15	95.2	14.3	34.9	66.7	4-15.9	1.15
3/4"	20	117.5	15.9	42.9	82.5	4-19	1.7
1"	25	123.8	17.5	50.8	88.9	4-19	2.3
1 1/4"	32	133.3	19	63.5	98.4	4-19	2.85
1 1/2"	40	155.6	20.6	73	114.3	4-22.2	3.4
2"	50	165.1	22.2	92.1	127	8-19	4
2 1/2"	65	190.5	25.4	104.8	149.2	8-22.2	6.3
3"	80	209.5	28.6	127	168.3	8-22.2	8
4"	100	254	31.8	157.2	200	8-22.2	13.7
5"	125	279.4	34.9	185.7	234.9	8-22.2	18.25
6"	150	317.5	36.5	215.9	269.9	12-22.2	26.2
8"	200	381	41.3	269.9	330.2	12-25.4	41.6
10"	250	444.5	47.6	323.8	387.3	16-28.6	65.55
12"	300	520.7	50.8	381	450.8	16-31.7	94.6
14"	350	584.2	54	412.8	514.3	20-31.7	122
16"	400	647.7	57.2	469.9	571.5	20-34.9	158.45
18"	450	711.2	60.3	533.4	628.6	24-34.9	201.8
20"	500	774.7	63.5	584.2	685.8	24-34.9	254.2
24"	600	914.4	69.8	692.1	812.8	24-41.3	389.9



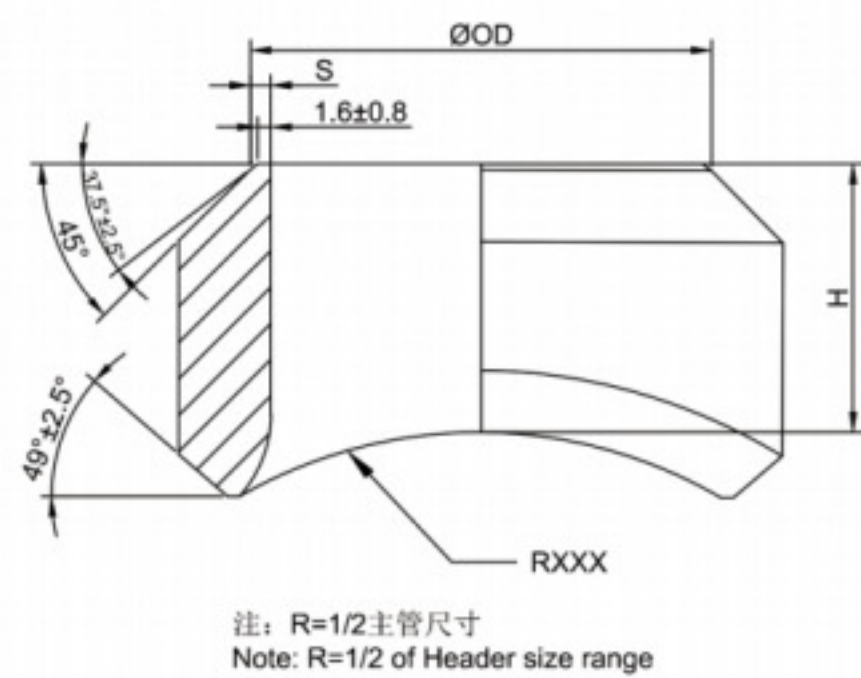
ASNE B16.5 CL150-RF Composite Blind Flange							
Specification	DN	A	H	R	G	N-d0	Weight
inch	mm	mm	mm	mm	mm		kg
1/2"	15	88.9	12.5	34.9	60.3	4-15.9	0.08
3/4"	20	98.4	14.1	42.9	69.8	4-15.9	0.9
1"	25	108	15.7	50.8	79.4	4-15.9	1
1 1/4"	32	117.5	17.3	63.5	88.9	4-15.9	1.3
1 1/2"	40	127	18.9	73	98.4	4-15.9	1.4
2"	50	152.4	20.5	92.1	120.6	4-19	1.8
2 1/2"	65	177.8	23.6	104.8	139.7	4-19	3.2
3"	80	190.5	25.2	127	152.4	4-19	4
4"	100	228.6	25.2	157.2	190.5	8-19	8
5"	125	254	25.2	185.7	215.9	8-22.2	9
6"	150	279.4	26.8	215.9	241.3	8-22.2	12
8"	200	342.9	30	269.9	298.4	8-22.2	20
10"	250	406.4	31.6	323.8	361.9	12-25.4	32
12"	300	482.6	33.2	381	431.8	12-25.4	50
14"	350	533.4	36.3	412.8	476.2	12-28.6	59
16"	400	596.9	37.9	469.9	539.7	16-28.6	77
18"	450	635	41.1	533.4	577.8	16-31.7	95
20"	500	698.5	44.3	584.2	635	20-31.7	123
24"	600	812.8	49	692.1	749.3	20-34.9	186

ASNEB16.5 CL300-RF Composite Blind Flange							
Specification	DN	A	H	R	G	N-d2	Weight
inch	mm	mm	mm	mm	mm		kg
1/2"	15	95.2	15.6	34.9	66.7	4-15.9	1
3/4"	20	117.5	17.3	42.9	82.5	4-19	1.5
1"	25	123.8	18.9	50.8	88.9	4-19	2
1 1/4"	32	133.3	20.4	63.5	98.4	4-19	2.5
1 1/2"	40	155.6	22	73	114.3	4-22.2	3
2"	50	165.1	23.6	92.1	127	8-19	3.5
2 1/2"	65	190.5	26.8	104.8	149.2	8-22.2	5.5
3"	80	209.5	30	127	168.3	8-22.2	7
4"	100	254	33.2	157.2	200	8-22.2	12
5"	125	279.4	36.3	185.7	234.9	8-22.2	16
6"	150	317.5	37.9	215.9	269.9	12-22.2	23
8"	200	381	42.7	269.9	330.2	12-25.4	36.5
10"	250	444.5	49	323.8	387.3	16-28.6	57.5
12"	300	520.7	52.2	381	450.8	16-31.7	83
14"	350	584.2	55.4	412.8	514.3	20-31.7	107
16"	400	647.7	58.6	469.9	571.5	20-34.9	139
18"	450	711.2	61.7	533.4	628.6	24-34.9	177
20"	500	774.7	64.9	584.2	685.8	24-34.9	223
24"	600	914.4	71.2	692.1	812.8	24-41.3	342

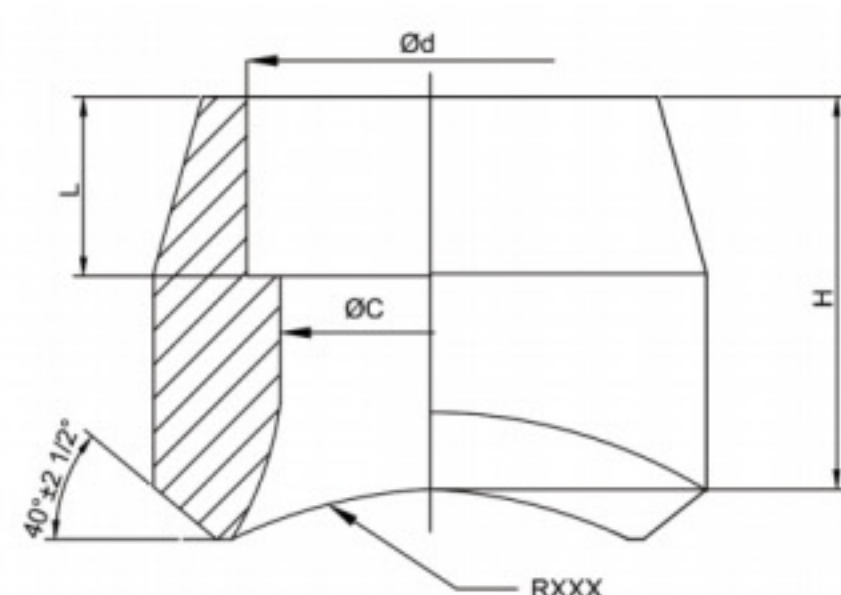
ASNEB16.5 CL150-FF Composite Blind Flange							
Specification	DN	A	H	R	G	N-d0	Weight
inch	mm	mm	mm	mm	mm		kg
1/2"	15	88.9	12.5	34.9	60.3	4-15.9	0.08
3/4"	20	98.4	14.1	42.9	69.8	4-15.9	0.9
1"	25	108	15.7	50.8	79.4	4-15.9	1
1 1/4"	32	117.5	17.3	63.5	88.9	4-15.9	1.3
1 1/2"	40	127	18.9	73	98.4	4-15.9	1.4
2"	50	152.4	20.5	92.1	120.6	4-19	1.8
2 1/2"	65	177.8	23.6	104.8	139.7	4-19	3.2
3"	80	190.5	25.2	127	152.4	4-19	4
4"	100	228.6	25.2	157.2	190.5	8-19	8
5"	125	254	25.2	185.7	215.9	8-22.2	9
6"	150	279.4	26.8	215.9	241.3	8-22.2	12
8"	200	342.9	30	269.9	298.4	8-22.2	20
10"	250	406.4	31.6	323.8	361.9	12-25.4	32
12"	300	482.6	33.2	381	431.8	12-25.4	50
14"	350	533.4	36.3	412.8	476.2	12-28.6	59
16"	400	596.9	37.9	469.9	539.7	16-28.6	77
18"	450	635	41.1	533.4	577.8	16-31.7	95
20"	500	698.5	44.3	584.2	635	20-31.7	123
24"	600	812.8	49	692.1	749.3	20-34.9	186

ASNEB16.5 CL300-FF Composite Blind Flange							
Specification	DN	A	H	R	G	N-d2	Weight
inch	mm	mm	mm	mm	mm		kg
1/2"	15	95.2	15.6	34.9	66.7	4-15.9	1
3/4"	20	117.5	17.3	42.9	82.5	4-19	1.5
1"	25	123.8	18.9	50.8	88.9	4-19	2
1 1/4"	32	133.3	20.4	63.5	98.4	4-19	2.5
1 1/2"	40	155.6	22	73	114.3	4-22.2	3
2"	50	165.1	23.6	92.1	127	8-19	3.5
2 1/2"	65	190.5	26.8	104.8	149.2	8-22.2	5.5
3"	80	209.5	30	127	168.3	8-22.2	7
4"	100	254	33.2	157.2	200	8-22.2	12
5"	125	279.4	36.3	185.7	234.9	8-22.2	16
6"	150	317.5	37.9	215.9	269.9	12-22.2	23
8"	200	381	42.7	269.9	330.2	12-25.4	36.5
10"	250	444.5	49	323.8	387.3	16-28.6	57.5
12"	300	520.7	52.2	381	450.8	16-31.7	83
14"	350	584.2	55.4	412.8	514.3	20-31.7	107
16"	400	647.7	58.6	469.9	571.5	20-34.9	139
18"	450	711.2	61.7	533.4	628.6	24-34.9	177
20"	500	774.7	64.9	584.2	685.8	24-34.9	223
24"	600	914.4	71.2	692.1	812.8	24-41.3	342

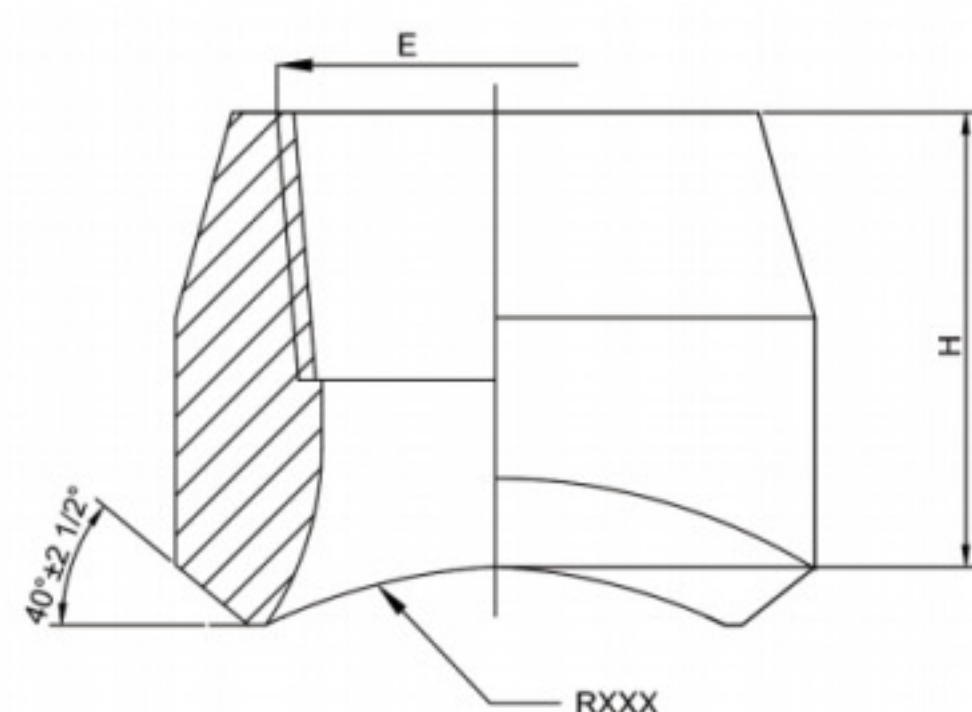
Weldolet/Sockolet/Threadolet



EEMUA234 Weldolet					
specification	Header size range	OD	H	S 16bar	S 20bar
inch	mm	mm	mm	mm	mm
1/2"	16-44.5	16	19.05	2	2
1/2"	57-610	16	17.5	2	2
3/4"	25-44.5	25	22.2	2	2
3/4"	57-610	25	20.6	2	2
1"	30-44.5	30	27	2.5	2.5
1"	57-610	30	22.2	2.5	2.5
1 1/4"	38-44.5	38	30.2	2.5	2.5
1 1/4"	57-610	38	25.4	2.5	2.5
1 1/2"	44.5	44.5	33.3	2.5	2.5
1 1/2"	57-610	44.5	28.6	2.5	2.5
2"	57-76.1	57	38.1	2.5	2.5
2"	88.9-610	57	33.3	2.5	2.5
2 1/2"	76.1-108	76.1	47.6	2.5	2.5
2 1/2"	159-610	76.1	44.5	2.5	2.5
3"	88.9-108	88.9	47.6	2.5	2.5
3"	159-610	88.9	44.5	2.5	2.5
4"	108	108	46.8	3	3
4"	159	108	52.4	3	3
4"	219.1-610	108	49.2	3	3
6"	159-610	159	60.3	3	3.5
8"	219.1-610	219.1	69.9	4	4.5
10"	267-610	267	77.8	4.5	5.5
12"	323.9-610	323.9	85.7	5.5	7
14"	368-610	368	88.9	6.5	8
16"	419-610	419	93.7	7	9
18"	457.2-610	457.2	96.8	8	9.5
20"	508-610	508	115.9	8.5	11
24"	610	610	115.9	10.5	13

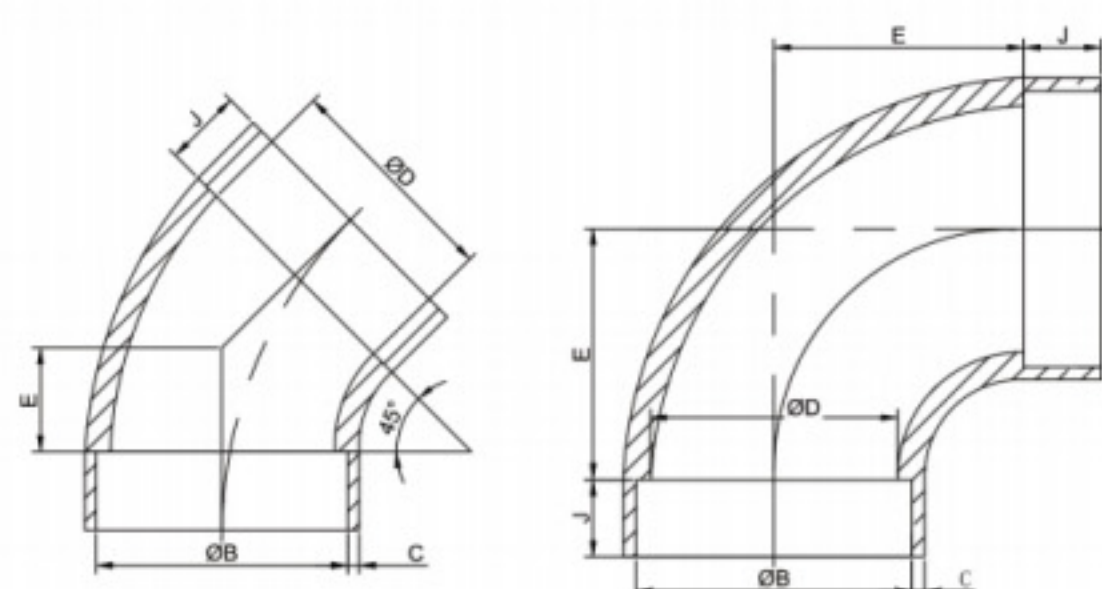


EEMUA234 Sockolet							
Specification	Header size range	d		C		H	L
		max	min	max	min		
inch	mm	mm	mm	mm	mm	mm	mm
1/2"	25-44.5	16.121	16.07	12.445	11.565	25.4	10
1/2"	57-914	16.121	16.07	12.445	11.565	23.8	10
3/4"	30-44.5	25.131	25.08	21.445	20.575	26.9	13
3/4"	57-914	25.131	25.08	21.445	20.575	25.4	13
1"	38-44.5	30.131	30.08	25.555	24.475	33.3	13
1"	57-914	30.131	30.08	25.555	24.475	28.6	13
1 1/4"	57-914	38.146	38.095	33.57	32.49	33.3	13
1 1/2"	57-914	44.646	44.595	40.07	38.99	30.2	13
2"	76.1-914	57.276	57.225	52.7	51.62	38.1	16

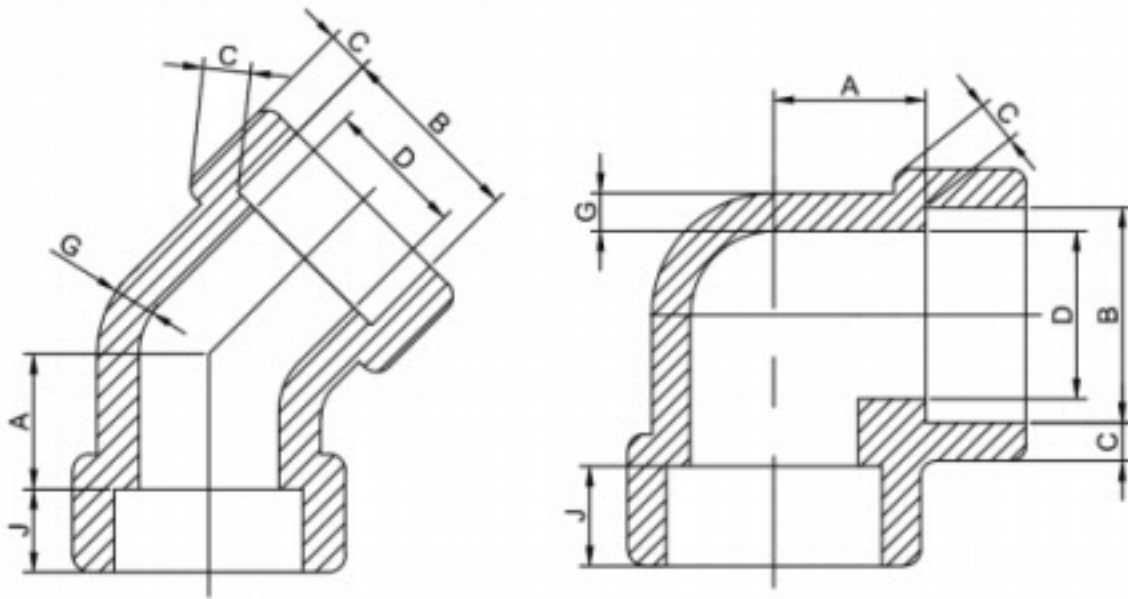


EEMUA234 Thredolet			
Specification	Header size range	E	H
inch	mm		mm
1/2"	25-44.5	1/2"NPT	25.4
1/2"	57-914	1/2"NPT	23.8
3/4"	30-44.5	3/4"NPT	26.9
3/4"	57-914	3/4"NPT	25.4
1"	38-44.5	1"NPT	33.3
1"	57-914	1"NPT	28.6
1 1/4"	57-914	1 1/4"NPT	33.3
1 1/2"	57-914	1 1/2"NPT	30.2
2"	76.1-914	2"NPT	38.1

SW Elbows

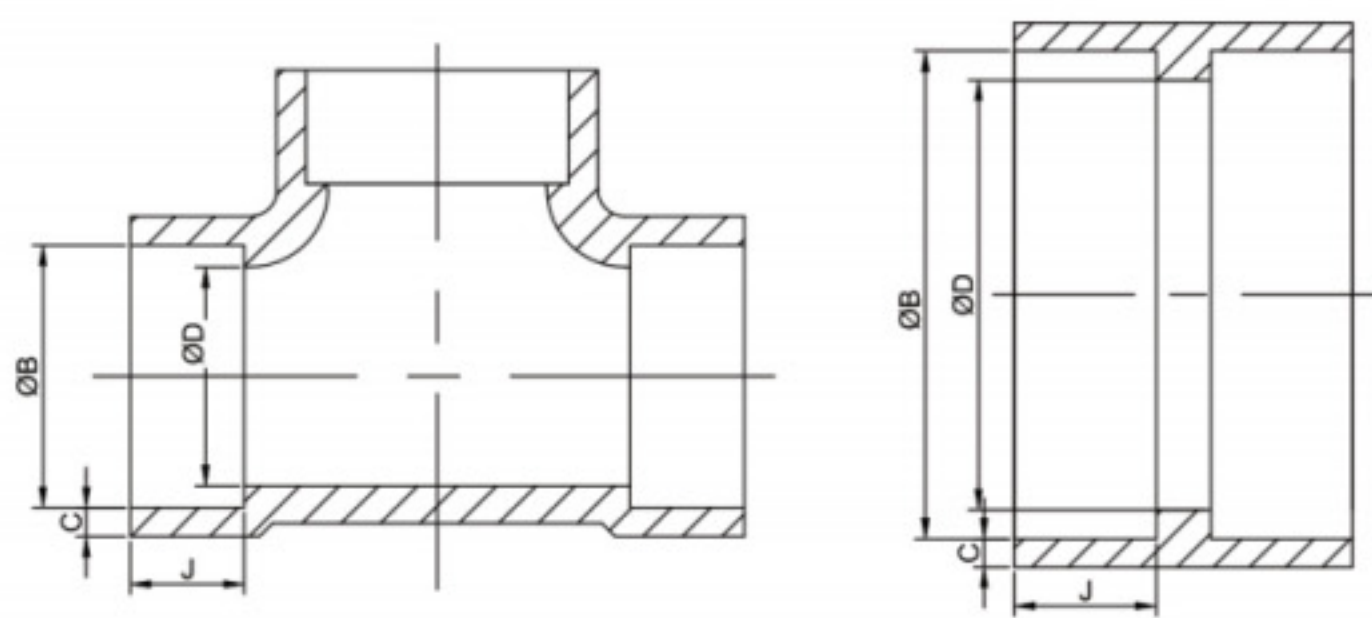


EEMUA234 SW Elbow 90°/45°						
Specification	ØD	ØB	C(min)	E(45°)	E(90°)	J
inch	mm	mm	mm	mm	mm	mm
1/2"	12	16+0.07/+0.121	3.2	12	30	10
3/4"	21	25+0.08/+0.131	3.2	15.5	37.5	13
1"	25	30+0.08/+0.131	3.2	18.6	45	13
1 1/4"	33	38+0.095/+0.146	3.2	23.6	57	13
1 1/2"	39.5	44.5+0.095/+0.146	3.2	27.6	66.8	13
2"	52	57+0.225/+0.276	3.2	35.3	85.5	16

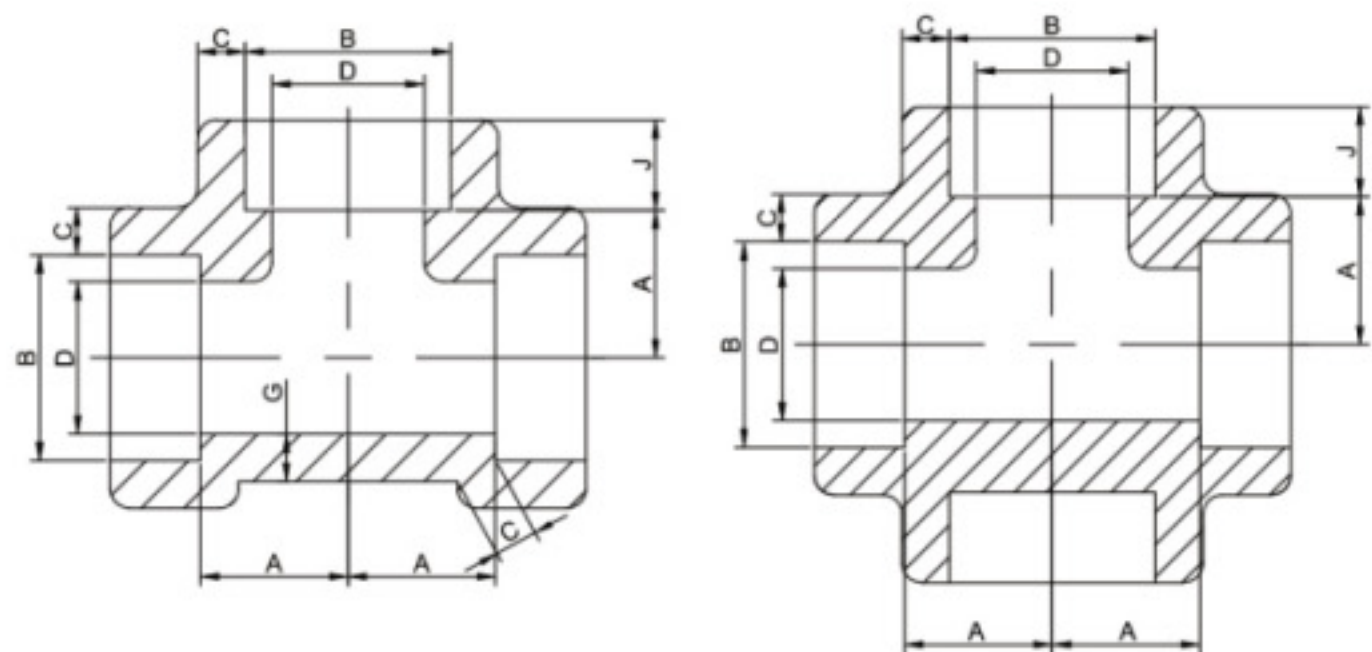


ASMEB16.11 CL3000 SW Elbow 90°45°										
Specification	A		B		D		C		G	J
	90°	45°	max	min	max	min	max	min	mm	mm
1/8	11	8	11.2	10.8	7.6	6.1	3.18	3.18	2.41	9.5
1/4	11	8	14.6	14.2	10	8.5	3.78	3.3	3.02	9.5
3/8	13.5	8	18	17.6	13.3	11.8	4.01	3.5	3.2	9.5
1/2	15.5	11	22.2	21.8	16.6	15	4.67	4.09	3.73	9.5
3/4	19	13	27.6	27.2	21.7	20.2	4.9	4.27	3.91	12.5
1	22.5	14	34.3	33.9	27.4	25.9	5.69	4.98	4.55	12.5
1 1/4	27	17.5	43.1	42.7	35.8	34.3	6.07	5.28	4.85	12.5
1 1/2	32	20.5	49.2	48.8	41.6	40.1	6.35	5.54	5.08	12.5
2	38	25.5	61.7	61.2	53.3	51.7	6.93	6.04	5.54	16
2 1/2	41	28.5	74.4	73.9	64.2	61.2	8.76	7.67	7.01	16
3	57	32	90.3	89.8	79.4	76.4	9.52	8.3	7.62	16
4	66.5	41	115.7	115.2	103.8	100.7	10.69	9.35	8.56	19

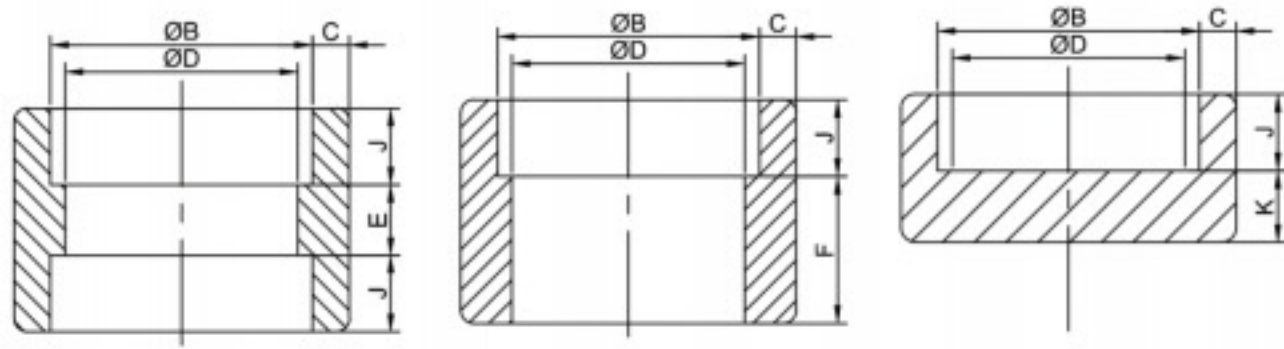
SW Tee Coupling Cross



EEMUA234 SW Tee Coupling				
Specification	ØD	ØB	C(min)	J
inch	mm	mm	mm	mm
1/2"	12	16+0.07/+0.121	3.2	10
3/4"	21	25+0.08/+0.131	3.2	13
1"	25	30+0.08/+0.131	3.2	13
1 1/4"	33	38+0.095/+0.146	3.2	13
1 1/2"	39.5	44.5+0.095/+0.146	3.2	13
2"	52	57+0.225/+0.276	3.2	16

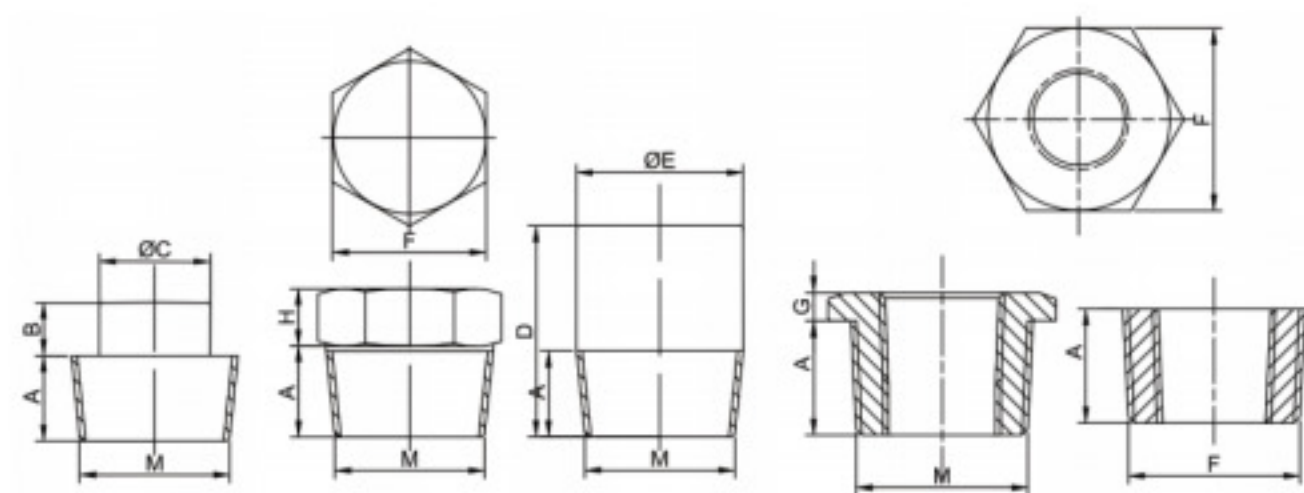


ASMEB16.11 CL3000 SW Tee Cross									
Specification	A	B		D		C		G	J
	mm	max	min	max	min	max	min	mm	mm
1/8	11	11.2	10.8	7.6	6.1	3.18	3.18	2.41	9.5
1/4	11	14.6	14.2	10	8.5	3.78	3.3	3.02	9.5
3/8	13.5	18	17.6	13.3	11.8	4.01	3.5	3.2	9.5
1/2	15.5	22.2	21.8	16.6	15	4.67	4.09	3.73	9.5
3/4	19	27.6	27.2	21.7	20.2	4.9	4.27	3.91	12.5
1	22.5	34.3	33.9	27.4	25.9	5.69	4.98	4.55	12.5
1 1/4	27	43.1	42.7	35.8	34.3	6.07	5.28	4.85	12.5
1 1/2	32	49.2	48.8	41.6	40.1	6.35	5.54	5.08	12.5
2	38	61.7	61.2	53.3	51.7	6.93	6.04	5.54	16
2 1/2	41	74.4	73.9	64.2	61.2	8.76	7.67	7.01	16
3	57	90.3	89.8	79.4	76.4	9.52	8.3	7.62	16
4	66.5	115.7	115.2	103.8	100.7	10.69	9.35	8.56	19



ASMEB16.11 CL3000 SW Coupling										
Specification	B		D		C		E	F	J	K
	max	min	max	min	max	min	mm	mm	mm	mm
1/8	11.2	10.8	7.6	6.1	3.18	3.18	6.5	16	9.5	4.8
1/4	14.6	14.2	10	8.5	3.78	3.3	6.5	16	9.5	4.8
3/8	18	17.6	13.3	11.8	4.01	3.5	6.5	17.5	9.5	4.8
1/2	22.2	21.8	16.6	15	4.67	4.09	9.5	22.5	9.5	6.4
3/4	27.6	27.2	21.7	20.2	4.9	4.27	9.5	24	12.5	6.4
1	34.3	33.9	27.4	25.9	5.69	4.98	12.5	28.5	12.5	9.6
1 1/4	43.1	42.7	35.8	34.3	6.07	5.28	12.5	30	12.5	9.6
1 1/2	49.2	48.8	41.6	40.1	6.35	5.54	12.5	32	12.5	11.2
2	61.7	61.2	53.3	51.7	6.93	6.04	19	41	16	12.7
2 1/2	74.4	73.9	64.2	61.2	8.76	7.67	19	43	16	15.7
3	90.3	89.8	79.4	76.4	9.52	8.3	19	44.5	16	19
4	115.7	115.2	103.8	100.7	10.69	9.35	19	48	19	22.4

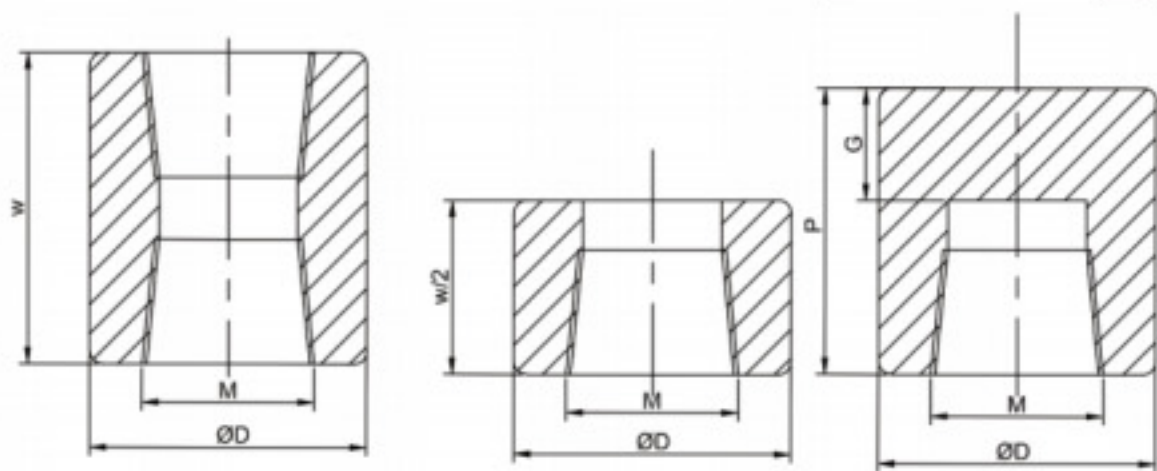
Plug Busing



EEMUA234 Plug Busing									
Specification	M	H	G	A	B	C	D	E	F
inch		mm	mm	mm	mm	mm	mm	mm	mm
1/2"	1/2"NPT	8	5	14.5	10	14.5	44	21	22
3/4"	1/2"NPT	10	6	16	11	16	44	27	27
1"	1"NPT	10	6	19	13	20.5	51	33	35
1 1/4"	1 1/4"NPT	14	7	20.5	14	24	51	43	44.5
1 1/2"	1 1/2"NPT	16	8	20.5	16	28.5	51	48	51
2"	2"NPT	17	9	22	17	33.5	64	60	63.5

ASMEB16.11 CL3000 PLUG Busing									
Specification	M	H	G	A	B	C	D	E	F
inch		mm	mm	mm	mm	mm	mm	mm	mm
1/8"	1/8"NPT	6		10	6	7.15	35	10	11.11
1/4"	1/4"NPT	6	3	11	6	9.55	41	14	15.88
3/8"	3/8"NPT	8	4	13	8	11.11	41	18	17.46
1/2"	1/2"NPT	8	5	14	10	14.29	44	21	22.23
3/4"	3/4"NPT	10	6	16	11	15.88	44	27	26.99
1"	1"NPT	10	6	19	13	20.64	51	33	34.93
1 1/4"	1 1/4"NPT	14	7	21	14	23.81	51	43	44.45
1 1/2"	1 1/2"NPT	16	8	21	16	28.58	51	48	50.8
2"	2"NPT	18	9	22	18	33.27	64	60	63.5
2 1/2"	2 1/2"NPT	19	10	27	19	38.1	73	70	76.2
3"	3"NPT	21	10	28	21	42.86	70	89	88.9
4"	4"NPT	25	13	32	25	63.5	76	114	117.48

Thread Coupling



EEMUA234 Threaded Coupling					
specification	M	W	D	G	P
1/2	1/2"NPT	48	29	6.5	32
3/4	3/4"NPT	51	35	6.5	37
1	1"NPT	60	44	6.5	38
1 1/4	1 1/4"NPT	67	57	6.5	41
1 1/2	1 1/2"NPT	79	64	6.5	41
2	2"NPT	86	76	6.5	42

ASMEB16.11 CL3000 Threaded Coupling					
specification	M	W	D	G	P
1/8	1/8"NPT	32	16	4.8	19
1/4	1/4"NPT	35	19	4.8	25
3/8	3/8"NPT	38	22	4.8	32
1/2	1/2"NPT	48	28	6.4	32
3/4	3/4"NPT	51	35	6.4	37
1	1"NPT	60	44	9.7	41
1 1/4	1 1/4"NPT	67	57	9.7	44
1 1/2	1 1/2"NPT	79	64	11.2	44
2	2"NPT	86	76	12.7	48
2 1/2	2 1/2"NPT	92	92	15.7	60
3	3"NPT	108	108	19	65
4	4"NPT	121	140	22.4	68



Contact us: Haomei Aluminum
Complete Solution in Marine Aluminum Steel CuNi Profile
Email: dolly@alumhm.com Website: www.marinealu.com
Address: 1103, No.14 Waihuan Road, CBD, Zhengzhou, China