

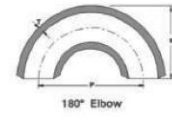
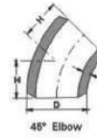
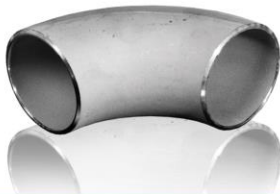
Dimension: ANSI B16.9

Material: ASTM A403

Thickness: 5S, 10S, 20S, STD, 40S, 80S

Stainless steel fittings

45/90° Long/Short Radius Elbows



Nominal Pipe Size		Outside Diameter At Bevel		Center to End			Center to Center		Back to Faces	
				45o Elbows	90o Elbows		180o Return		180o Return	
DN	INCH	Series A	Series B	H	F		P		K	
				Long Radius	Long Radius	Short Radius	Long Radius	Short Radius	Long Radius	Short Radius
15	1/2"	21.3	18	16	38	-	76	-	48	-
20	3/4"	26.9	25	16	38	-	76	-	51	-
25	1"	33.7	32	16	38	25	76	51	56	41
32	1.1/4"	42.4	38	20	48	32	95	64	70	52
40	1.1/2"	48.3	45	24	57	38	114	76	83	62
50	2"	60.3	57	32	76	51	152	102	106	81
65	2.1/2"	76.1(73)	76	40	95	64	191	127	132	100
80	3"	88.9	89	47	114	76	229	152	156	121
90	3.1/2"	101.6	-	55	133	89	267	178	184	140
100	4"	114.3	108	63	152	102	305	203	210	159
125	5"	139.7(141.3)	133	79	190	127	381	254	262	197
150	6"	168.3	159	95	229	152	457	305	313	237
200	8"	219.1	219	126	305	203	610	406	414	313
250	10"	273.0	273	158	381	254	762	508	518	391
300	12"	323.9	325	189	457	305	914	610	619	467
350	14"	355.6	377	221	533	356	1067	711	711	533
400	16"	406.4	426	253	610	406	1219	813	813	610
450	18"	457.2	478	284	686	457	1372	914	914	686
500	20"	508.0	529	316	762	508	1524	1016	1016	762
550	22"	559.0	-	347	838	559				
600	24"	610.0	630	379	914	610				
650	26"	660.0	-	410	991	660				
700	28"	711.0	720	442	1067	711				
750	30"	762.0	-	473	1143	762				
800	32"	813.0	820	505	1219	813				
850	34"	864.0	-	537	1295	864				
900	36"	914.0	920	568	1372	914				
950	38"	965.0	-	600	1448	965				
1000	40"	1016.0	1020	631	1524	1016				
1050	42"	1067.0	-	663	1600	1067				
1100	44"	1118.0	1120	694	1676	1118				
1150	46"	1168.0	-	726	1753	1168				
1200	48"	1220.0	1220	758	1829	1219				

Note:
1. Does not uses in the parenthesis as far as possible the value
2. First selects A series

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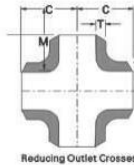
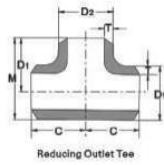
Dimension: ANSI B16.9

Material: ASTM A403

Thickness: 5S, 10S, 20S, STD, 40S, 80S

Straight Tees

Stainless steel fittings



Nominal Pipe Size		Outside diameter at D		Center to End	
DN	INCH	Series A	Series B	Series A	Series B
15	1/2"	21.3	18	25	
20	3/4"	26.9	25	29	
25	1"	33.7	32	38	
32	1.1/4"	42.4	38	48	
40	1.1/2"	48.3	45	57	
50	2"	60.3	57	64	
65	2.1/2"	76.1(73)	76	76	
80	3"	88.9	89	86	
90	3.1/2"	101.6	-	95	
100	4"	114.3	108	105	
125	5"	139.7(141.3)	133	124	
150	6"	168.3	159	143	
200	8"	219.1	219	178	
250	10"	273.0	273	216	
300	12"	323.9	325	254	
350	14"	355.6	377	279	
400	16"	406.4	426	305	

Nominal Pipe Size		Outside diameter		Center to End	
DN	INCH	Series A	Series B	Series A	Series B
450	18"	457.2	478	343	
500	20"	508.0	529	381	
550	22"	559.0	-	419	
600	24"	610.0	630	432	
650	26"	660.0	-	495	
700	28"	711.0	720	521	
750	30"	762.0	-	559	
800	32"	813.0	820	597	
850	34"	864.0	-	635	
900	36"	914.0	920	673	
950	38"	965.0	-	711	
1000	40"	1016.0	1020	749	
1050	42"	1067.0	-	762	711
1100	44"	1118.0	1120	813	762
1150	46"	1168.0	-	851	800
1200	48"	1220.0	1220	889	838

Note:

- Does not uses in the parenthesis as far as possible the value
- First selects A series

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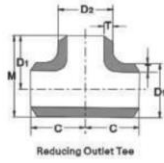
Dimension: ANSI B16.9

Material: ASTM A403

Thickness: 5S, 10S, 20S, STD, 40S, 80S

Reducing Tees

Stainless steel fittings



Nominal Pipe Size	Outside Diameter At Bevel		Outside Diameter At Bevel		Center to End	
	D1		D2		C	M
	Series A	Series B	Series A	Series B	Series A	Series B
20x15	26.9	25	21.3	18	29	29
25x20	33.7	32	26.9	25	38	38
25x15	33.7	32	21.3	18	38	38
32x25	42.4	38	33.7	32	48	48
32x20	42.4	38	26.9	25	48	48
32x15	42.4	38	21.3	18	48	48
40x32	48.3	45	42.4	38	57	57
40x25	48.3	45	33.7	32	57	57
40x20	48.3	45	26.9	25	57	57
40x15	48.3	45	21.3	18	57	57
50x40	60.3	57	48.3	45	64	60
50x32	60.3	57	42.4	38	64	57
50x25	60.3	57	33.7	32	64	51
50x20	60.3	57	26.9	25	64	44
65x50	76.1(73)	76	60.3	57	76	70
65x40	76.1(73)	76	48.3	45	76	67
65x32	76.1(73)	76	42.4	38	76	64
65x25	76.1(73)	76	33.7	32	76	57
80x65	88.9	89	76.1(73)	76	86	83
80x50	88.9	89	60.3	57	86	76
80x40	88.9	89	48.3	45	86	73
80x32	88.9	89	42.4	38	86	70
90x80	101.6	-	88.9	-	95	92
90x65	101.6	-	76.1(73)	-	95	89
90x50	101.6	-	60.3	-	95	83
90x40	101.6	-	48.3	-	95	79

Nominal Pipe Size	Outside Diameter At Bevel		Outside Diameter At Bevel		Center to End	
	D1		D2		C	M
	Series A	Series B	Series A	Series B	Series A	Series B
100x90	114.3	-	101.6	-	105	102
100x80	114.3	108	88.9	89	105	98
100x65	114.3	108	76.1(73)	76	105	95
100x50	114.3	108	60.3	57	105	89
100x40	114.3	108	48.3	45	105	86
125x100	139.7(141.3)	133	114.3	108	124	117
125x90	139.7(141.3)	-	101.6	-	124	114
125x80	139.7(141.3)	133	88.9	89	124	111
125x65	139.7(141.3)	133	76.1(73)	76	124	108
125x50	139.7(141.3)	133	60.3	57	124	105
150x125	168.3	159	139.7(141.3)	133	143	137
150x100	168.3	159	114.3	108	143	130
150x90	168.3	-	101.6	-	143	127
150x80	168.3	159	88.9	89	143	124
150x65	168.3	159	76.1(73)	76	143	121
200x150	219.1	219	168.3	159	178	168
200x125	219.1	219	139.7(141.3)	133	178	162
200x100	219.1	219	114.3	108	178	156
200x90	219.1	219	101.6	-	178	152
250x200	273.0	273	219.1	219	216	208
250x150	273.0	273	168.3	159	216	194
250x125	273.0	273	139.7(141.3)	133	216	191
250x100	273.0	273	114.3	108	216	184
300x250	323.9	325	273	273	254	241
300x200	323.9	325	219.1	219	254	229
300x150	323.9	325	168.3	159	254	219

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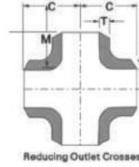
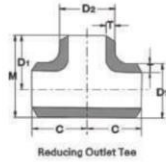
Dimension: ANSI B16.9

Material: ASTM A403

Thickness: 5S, 10S, 20S, STD, 40S, 80S

Reducing Tees

Stainless steel fittings



Nominal Pipe Size	Outside Diameter At Bevel		Outside Diameter At Bevel		Center to End	
	D1		D2		C	M
	Series A	Series B	Series A	Series B	Series A	Series B
300x125	323.9	325	139.7(141.3)	133	254	216
350x300	355.6	377	323.9	325	279	270
350x250	355.6	377	273.0	273	279	257
350x200	355.6	377	219.1	219	279	248
350x150	355.6	377	168.3	159	279	238
400x350	406.4	426	355.6	377	305	305
400x300	406.4	426	323.9	325	305	295
400x250	406.4	426	273.0	273	305	283
400x200	406.4	426	219.1	219	305	273
400x150	406.4	426	168.1	159	305	264
450x400	457.2	478	406.4	426	343	330
450x350	457.2	478	355.6	377	343	330
450x300	457.2	478	323.9	325	343	321
450x250	457.2	478	273.0	273	343	308
450x200	457.2	478	219.1	219	343	298
500x450	508.0	529	457.2	478	381	368
500x400	508.0	529	406.4	426	381	356
500x350	508.0	529	355.6	377	381	356
500x300	508.0	529	323.9	325	381	346
500x250	508.0	529	273.0	273	381	333
500x200	508.0	529	219.1	219	381	324
550x500	559	-	508.0	-	419	406
550x450	559	-	457.0	-	419	394
550x400	559	-	406.0	-	419	381
600x550	610	-	559.0	-	432	432
600x500	610	630	508.0	530	432	432
600x450	610	630	457.0	480	432	419
650x600	660	-	610.0	-	495	483
650x550	660	-	559.0	-	495	470
650x500	660	-	508.0	-	495	457
700x650	711	-	660.0	-	521	521
700x600	711	720	610.0	630	521	508

Nominal Pipe Size	Outside Diameter At Bevel		Outside Diameter At Bevel		Center to End	
	D1		D2		C	M
	Series A	Series B	Series A	Series B	Series A	Series B
700x550	711	-	599	-	521	495
750x700	762	-	711	-	559	546
750x650	762	-	660	-	559	546
750x600	762	-	610	-	559	533
800x750	813	-	762	-	597	584
800x700	813	820	711	720	597	572
800x650	813	-	660	-	597	572
850x800	864	-	713	-	635	622
850x750	864	-	762	-	635	610
850x700	864	-	711	-	635	597
900x850	914	-	864	-	673	660
900x800	914	920	813	820	673	648
900x750	914	-	762	-	673	635
950x900	965	-	914	-	711	711
950x850	965	-	864	-	711	698
950x800	965	-	813	-	711	686
1000x950	1016	-	965	-	749	749
1000x900	1016	1020	914	920	749	737
1000x850	1016	-	864	-	749	724
1050x100	1067	-	1016	-	762	711
1050x950	1067	-	965	-	762	711
1050x900	1067	-	914	-	762	711
1100x1050	1118	-	1067	-	813	762
1100x1000	1118	1120	1016	1020	813	749
1100x950	1118	-	965	-	813	737
1150x1100	1168	-	1118	-	851	800
1150x1050	1168	-	1067	-	851	787
1150x1000	1168	-	1016	-	851	775
1200x1150	1220	-	1168	-	889	838
1200x1100	1220	1220	1118	1120	889	838
1200x1050	1220	-	1067	-	889	813

2. First selects A series

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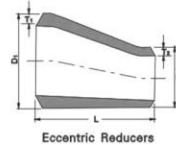
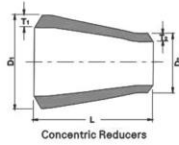
Dimension: ANSI B16.9

Material: ASTM A403

Thickness: 5S, 10S, 20S, STD, 40S, 80S

Con./Ecc. Reducers

Stainless steel fittings



Normal Pipe Size	Outside Diameter At Bevel		Outside Diameter At Bevel		Center to End
	D1		D2		End to End
	Series A	Series B	Series A	Series B	L
20x15	26.9	25	21.3	18	38
25x20	33.7	32	26.9	25	51
25x15	33.7	32	21.3	18	51
32x25	42.4	38	33.7	32	51
32x20	42.4	38	26.9	25	51
32x15	42.4	38	21.3	18	51
40x32	48.3	45	42.4	38	64
40x25	48.3	45	33.7	32	64
40x20	48.3	45	26.9	25	64
40x15	48.3	45	21.3	18	64
50x40	60.3	57	48.3	45	76
50x32	60.3	57	42.4	38	76
50x25	60.3	57	33.7	32	76
50x20	60.3	57	26.9	25	76
65x50	76.1(73)	76	60.3	57	89
65x40	76.1(73)	76	48.3	45	89
65x32	76.1(73)	76	42.4	38	89
65x25	76.1(73)	76	33.7	32	89
80x65	88.9	89	76.1(73)	76	89
80x50	88.9	89	60.3	57	89
80x40	88.9	89	48.3	45	89
80x32	88.9	89	42.4	38	89
90x80	101.6	-	88.9	-	102
90x65	101.6	-	76.1(73)	-	102
90x50	101.6	-	60.3	-	102
90x40	101.6	-	48.3	-	102
90x32	101.6	-	42.4	-	102
100x90	114.3	-	101.6	-	102
100x80	114.3	108	88.9	89	102
100x65	114.3	108	76.1(73)	76	102
100x50	114.3	108	60.3	57	102
100x40	114.3	108	48.3	45	102
125x100	139.7(141.3)	133	114.3	108	127
125x90	139.7(141.3)	-	101.6	-	127
125x80	139.7(141.3)	133	88.9	89	127

Normal Pipe Size	Outside Diameter At Bevel		Outside Diameter At Bevel		Center to End
	D1		D2		End to End
	Series A	Series B	Series A	Series B	L
125x65	139.7(141.3)	133	76.1(73)	76	127
125x50	139.7(141.3)	133	60.3	57	127
150x125	168.3	159	139.7(141.3)	133	140
150x100	168.3	159	114.3	108	140
150x90	168.3	-	101.6	-	140
150x80	168.3	159	88.9	89	140
150x65	168.3	159	76.1(73)	76	140
200x150	219.1	219	168.3	159	152
200x125	219.1	219	139.7(141.3)	133	152
200x100	219.1	-	114.3	108	152
200x90	219.1	219	101.6	-	152
250x200	273.0	273	219.1	219	178
250x150	273.0	273	168.3	159	178
250x125	273.0	273	139.7(141.3)	133	178
250x100	273.0	273	114.3	108	178
300x250	323.9	325	273	273	203
300x200	323.9	325	219.1	219	203
300x150	323.9	325	168.3	159	203
300x125	323.9	325	139.7(141.3)	133	203
350x300	355.6	377	323.9	325	330
350x250	355.6	377	273.0	273	330
350x200	355.6	377	219.1	219	330
350x150	355.6	377	168.3	159	330
400x350	406.4	426	355.6	377	356
400x300	406.4	426	323.9	325	356
400x250	406.4	426	273.0	273	356
400x200	406.4	426	219.1	219	356
450x400	457.2	478	406.4	426	381
450x350	457.2	478	355.6	377	381
450x300	457.2	478	323.9	325	381
450x250	457.2	478	273.0	273	381
500x450	508.0	529	457.2	478	508
500x400	508.0	529	406.4	426	508
500x350	508.0	529	355.6	377	508
500x300	508.0	529	323.9	325	508

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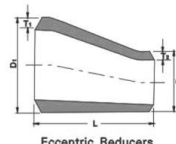
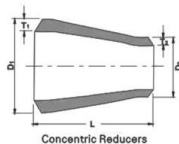
Dimension: ANSI B16.9

Material: ASTM A403

Thickness: 5S, 10S, 20S, STD, 40S, 80S

Con./Ecc. Reducers

Stainless steel fittings



Nominal Pipe Size	Outside Diameter At Bevel		Outside Diameter At Bevel		Center to End
	D1		D2		End to End L
	Series A	Series B	Series A	Series B	
550x500	559	-	508.0	-	508
550x450	559	-	457.0	-	508
550x400	559	-	406.0	-	508
550x350	559	-	356.0	-	508
600x550	610	-	559.0	-	508
600x500	610	630	508.0	530	508
600x450	610	630	457.0	480	508
600x400	610	630	406.0	426	508
650x600	660	-	610.0	-	610
650x550	660	-	559.0	-	610
650x500	660	-	508.0	-	610
650x450	660	-	457.0	-	610
700x650	711	-	660.0	-	610
700x600	711	720	610.0	630	610
700x550	711	-	599	-	610
700x500	711	720	508	530	610
750x700	762	-	711	-	610
750x650	762	-	660	-	610
750x600	762	-	559	-	610
750x550	762	-	610	-	610
800x750	813	-	762	-	610
800x700	813	820	711	720	610
800x650	813	-	660	-	610
800x600	813	820	610	630	610
850x800	864	-	813	-	610
850x750	864	-	862	-	610
850x700	864	-	711	-	610
850x650	864	-	660	-	610

Nominal Pipe Size	Outside Diameter At Bevel		Outside Diameter At Bevel		Center to End
	D1		D2		End to End L
	Series A	Series B	Series A	Series B	
900x850	914	-	864	-	610
900x800	914	920	813	820	610
900x750	914	-	762	-	610
900x700	914	920	711	720	610
950x900	965	-	914	-	610
950x850	965	-	864	-	610
950x800	965	-	813	-	610
950x750	965	-	762	-	610
1000x950	1016	-	965	-	610
1000x900	1016	1020	914	920	610
1000x850	1016	-	864	-	610
1000x800	1016	1020	813	820	610
1050x1000	1067	-	1016	-	610
1050x950	1067	-	965	-	610
1050x900	1067	-	914	-	610
1050x850	1067	-	864	-	610
1100x1050	1118	-	1067	-	610
1100x1000	1118	1120	1016	1020	610
1100x950	1118	-	965	-	610
1100x900	1118	1120	914	920	610
1150x1100	1168	-	1118	-	711
1150x1050	1168	-	1067	-	711
1150x1000	1168	-	1016	-	711
1150x950	1168	-	965	-	711
1200x1150	1220	-	1168	-	711
1200x1100	1220	1220	1118	1120	711
1200x1050	1220	-	1067	-	711
1200x1000	1220	1220	1067	1020	711

Note:

1. Does not uses in the parenthesis as far as possible the value
2. First selects A series

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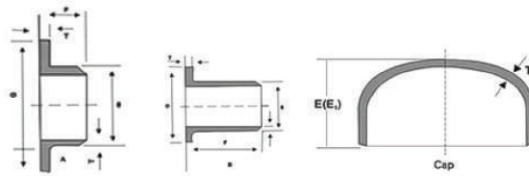
Dimension: ANSI B16.9

Material: ASTM A403

Thickness: 5S, 10S, 20S, STD, 40S, 80S

Stainless steel fittings

Caps



Nominal Pipe Size		Outside Diameter At Bevel				Center to End End to End L
		D1		D2		
DN	INCH	Series A	Series B	Series A	Series B	
15	0.5	21.3	18	25	-	-
20	0.75	26.9	25	25	-	-
25	1	33.7	32	38	-	-
32	1.1/4	42.4	38	38	-	-
40	1.1/2	48.3	45	38	-	-
50	2	60.3	57	38	44	5.5
65	2.1/2	76.1(73)	76	38	51	7
80	3	88.9	89	51	64	7.6
90	3.1/2	101.6	-	64	76	8.1
100	4	114.3	108	64	76	8.6
125	5	139.7(141.3)	133	76	89	9.5
150	6	168.3	159	89	102	11
200	8	219.1	219	102	127	12.7
250	10	273	273	127	152	12.7
300	12	323.9	325	152	178	12.7
350	14	355.6	377	165	191	12.7
400	16	406.4	426	178	203	12.7
450	18	457.2	478	203	229	12.7
500	20	508	529	229	254	12.7

Nominal Pipe Size		Outside Diameter At Bevel		Length
DN	Inch	Series A	Series B	
550	22	559	-	254
600	24	610	630	267
650	26	660	-	267
700	28	711	720	267
750	30	762	-	267
800	32	813	820	267
850	34	864	-	267
900	36	914	920	267
950	38	965	-	305
1000	40	1016	1020	305
1050	42	1067	-	305
1100	44	1118	1120	343
1150	46	1168	-	343
1200	48	1220	1220	343

1. DN600 hose cap, when wall thickness surpasses 13mm, its E value changes 305mm
2. Does not use in the parenthesis as far as possible the value
3. The hose cap span is not bigger than when the limit thickness is E, surpasses the limit thickness is E1

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