



TERRANOVA STEEL

Product Catalogue

Pipes, Fittings and Flanges

Cremona, Italy

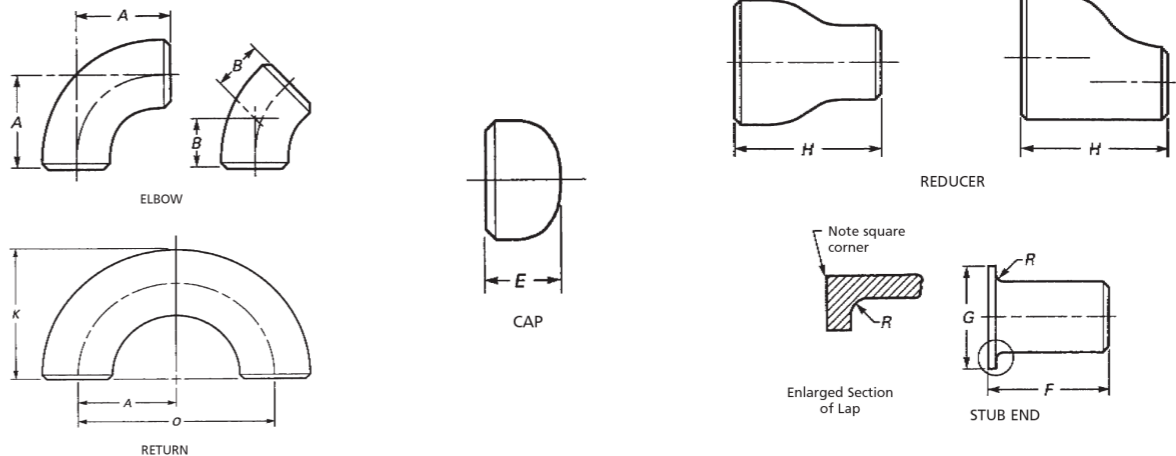


Fittings

DIMENSIONS

Buttwelding Fittings to ASME B16.9															
Nominal size	OD	Elbow			Returns				Caps	Reducers Note 1	Stub Ends				
		Long		Short	Long		Short	Long			Short	Radius of Fillet	Diam of Lap		
		90 deg	45 deg	90 deg	O	K	O							K	
DN	NPS	D	A	B	A	O	K	O	K	E	H	F	F	R	G
15	1/2	21.3	38	16		76	48			25	1	76	51	3	35
20	3/4	26.7	38	19		76	51			25	38	76	51	3	43
25	1	33.4	38	22	25	76	56	51	41	38	51	102	51	3	51
32	1 1/4	42.2	48	25	32	95	70	64	52	38	51	102	51	5	64
40	1 1/2	48.3	57	29	38	114	83	76	62	38	64	102	51	6	73
50	2	60.3	76	35	51	152	106	102	81	38	76	152	64	8	92
65	2 1/2	73.0	95	44	64	190	132	127	100	38	89	152	64	8	106
80	3	88.9	114	51	76	229	159	152	121	51	89	152	64	10	127
90	3 1/2	101.6	133	57	89	267	184	178	140	64	102	152	76	10	140
100	4	114.3	152	64	102	305	210	203	159	64	102	152	76	11	157
125	5	141.3	190	79	127	381	262	254	197	76	127	203	76	11	185
150	6	168.3	229	95	152	457	313	305	237	89	140	203	89	13	218
200	8	219.1	305	127	203	610	414	406	313	102	152	203	102	13	270
250	10	273.0	381	159	254	762	518	508	391	127	178	254	127	13	324
300	12	323.8	457	190	305	914	619	610	467	152	203	254	152	13	381
350	14	355.6	533	222	356	1067	711	711	533	165	330	305	152	13	413
400	16	406.4	610	254	406	1219	813	813	610	178	356	305	152	13	470
450	18	457	686	286	457	1372	914	914	686	203	381	305	152	13	533
500	20	508	762	318	508	1524	1016	1016	762	229	508	305	152	13	584
550	22	559	838	343	559	1676	1118	1118	838	254	508	305	152	13	641
600	24	610	914	381	610	1829	1219	1219	914	267	508	305	152	13	692
650	26	660	991	405						267	610				
700	28	711	1067	438						267	610				
750	30	762	1143	470						267	610				
800	32	813	1219	502						267	610				
850	34	864	1295	533						267	610				
900	36	914	1372	565						267	610				
950	38	965	1448	600						305	610				
1000	40	1016	1524	632						305	610				
1050	42	1067	1600	660						305	610				
1100	44	1118	1676	695						343	610				
1150	46	1168	1753	727						343	711				
1200	48	1219	1829	759						343	711				

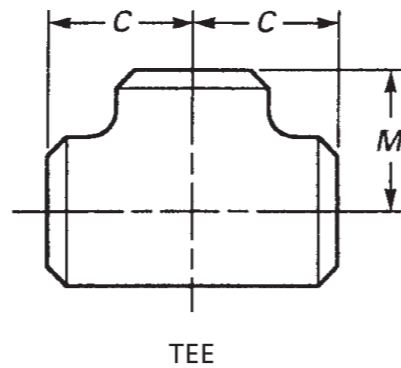
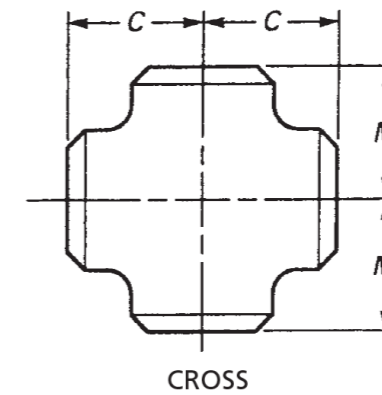
Note 1: Reducer dimension "H" is based on large end nominal size



Carbon Steel & Stainless Steel

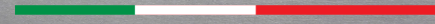
Fittings

Buttwelding Tees and Crosses to ASME B16.9																	Buttwelding Tees and Crosses to ASME B16.9																										
Nominal Size		Outside Diam.	Centre to-end Run	Centre-to-End Outlet (M)												Centre-to-End Outlet (M)																											
DN	NPS	D	C	8	10	15	20	25	32	40	50	65	80	90	100	125	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200					
8	3/8	13.7																																									
10	1/4	17.3																																									
15	1/2	21.3	25	25	25	25																																					
20	3/4	26.7	29		29	29	29																																				
25	1	33.4	38			38	38	38																																			
32	1 1/4	42.2	48			49	48	48	48																																		
40	1 1/2	48.3	57			57	57	57	57	57																																	
50	2	60.3	64				44	51	57	60	64																																
65	2 1/2	73.0	76					57	64	67	70	76																															
80	3	88.9	86						70	73	76	83	86																														
90	3 1/2	101.6	95							79	83	89	92	95																													
100	4	114.3	105							86	89	95	98	102	105																												
125	5	141.3	124								105	108	111	114	117	124																											
150	6	168.3	143									121	124	127	130	137	143																										
200	8	219.1	178											152	156	162	168	178																									
250	10	273.0	216												184	191	194	203	216																								
300	12	323.8	254													216	219	229	241	254																							
350	14	355.6	279														238	248	257	270	279																						
400	16	406.4	305															264	273	283	295	305	305																				
450	18	457	343																298	308	321	330	330	343																			
500	20	508	381																	324	333	346	356	356	368	381																	
550	22	559	419																		359	371	381	381	394	406	419																
600	24	610	432																			384	397	406	406	419	432	432	432														
650	26	660	495																				422	432	432	444	457	470	483	495													
700	28	711	521																					448	457	457	470	483	495	508	521	521											
750	30	762	559																						460	473	483	483	495	508	521	533	546	546	559								
800	32	813	597																							508	508	521	533	546	559	572	572	584	597								
850	34	864	635																								533	546	559	572	584	597	597	610	622	635							
900	36	914	673																								559	572	584	597	610	622	622	635	648	660	673						
950	38	965	711																								597	610	622	635	648	648	673	686	698	711	711						
1000	40	1016	749																								622	635	648	660	673	673	698	711	724	737	749	749					
1050	42	1067	762																								635	648	660	660	660	698	698	711	711	711	711	711	711	711			
1100	44	1118	813																									686	686	698	698	698	711	711	724	724	737	749	762	762			
1150	46	1168	851																									724	724	737	737	737	749	749	762	762	775	787	800	800			
1200	48	1219	889																									737	737	762	762	762	787	787	787	813	813	813	838	838	838		



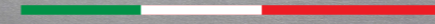
Fittings

WEIGHTS



Fittings

WEIGHTS



Nominal Size													Nominal Size																							
Standard Weight													XS						Sch 160																	
Nominal Size		OD	Elbows			Returns		Caps	Reducers	Stub Ends			Tees	Elbows			Returns		Caps	Reducers	Stub Ends			Tees	Elbows			Caps	Reducers	Tees						
DN	NPS		90 deg	45 deg	90 deg	Long	Short			MSS	ASME	90 deg		45 deg	90 deg	Long	Short	Long			Short	MSS	ASME		90 deg	45 deg	90 deg				Long	Short	90 deg	Long	Short	90 deg
15	1/2	21.3	0.08	0.04		0.16	15	0.04		0.12	0.14	0.09	0.10	0.05		0.20		0.05		0.13	0.12	0.11	0.12			0.06		0.12								
20	3/4	26.7	0.11	0.06		0.21	20	0.05	0.06	0.15	0.18	0.13	0.14	0.70		0.21		0.07	0.08	0.17	0.2	0.17	0.13			0.09		0.21								
25	1	33.4	0.16	0.08	0.11	0.31	0.21	0.11	0.12	0.19	0.3	0.25	0.20	0.10	0.14	0.41	0.26	0.15	0.15	0.24	0.38	0.32	0.25	0.13	0.17	0.2	0.19	0.41								
32	1 1/4	42.2	0.26	0.13	0.18	0.52	0.35	0.14	0.16	0.26	0.41	0.43	0.35	0.18	0.23	0.70	0.46	0.20	0.21	0.35	0.55	0.56	0.42	0.21	0.28	0.25	0.25	0.69								
40	1 1/2	48.3	0.37	0.19	0.25	0.74	0.49	0.17	0.25	0.38	0.55	0.61	0.50	0.25	0.33	1.02	0.66	0.24	0.33	0.46	0.68	0.81	0.65	0.33	0.43	0.35	0.43	1.07								
50	2	60.3	0.66	0.33	0.44	1.3	0.87	0.24	0.38	0.54	0.99	0.88	0.90	0.45	0.6	1.88	1.19	0.33	0.51	0.74	1.36	1.2	1.33	0.67	0.89	0.54	0.75	1.78								
65	2 1/2	73.0	1.29	0.69	0.91	2.73	1.82	0.42	0.73	0.8	1.56	1.74	1.79	0.90	1.19	3.56	2.38	0.57	0.95	1.06	2.08	2.28	2.33	1.17	1.49	0.77	1.2	2.86								
80	3	88.9	2.04	1.02	1.36	4.07	2.71	0.67	0.94	1.13	2.13	2.41	2.74	1.37	1.83	5.74	3.65	0.92	1.25	1.51	2.84	3.25	3.83	1.92	2.55	1.4	1.71	4.55								
90	3 1/2	101.6	2.94	1.47	1.97	5.65	3.77	0.92	1.19	1.47	2.58	3.26	4.05	2.02	2.07	12.72	5.21	1.3	1.64	2.01	3.51	4.51	5.92	2.96	3.95	2.1	2.35	6.52								
100	4	114.3	3.84	1.92	2.56	7.67	5.11	1.17	1.45	1.81	3.04	4.12	5.36	2.68	3.58	15.76	7.15	1.68	2.02	2.52	4.23	5.77	8.02	4.01	5.35	2.76	3	8.5								
125	5	141.3	6.48	3.24	4.32	13	8.64	1.9	2.5	2.53	5.3	6.54	9.13	4.57	6.09	19.39	12.2	2.73	3.52	3.6	7.52	9.2	14.7	7.35	9.79	4.85	5.59	14.8								
150	6	168.3	9.94	4.97	6.63	19.9	13.3	2.83	3.6	3.73	6.89	9.58	15	7.50	10	31.98	20	4.38	5.38	5.57	10.42	14.5	24.2	12.1	16.2	7.81	8.63	23.3								
200	8	219.1	20.1	10.1	13.4	40.3	26.8	5.11	5.7	5.89	10.42	17.9	30.5	15.3	20.3	64.33	40.7	7.91	8.63	10.12	15.86	27.1	53.2	26.6	35.5	15.2	15	47.2								
250	10	273.0	35.4	17.7	23.6	70.8	47.2	8.92	9.6	10.42	18.12	30.4	47.7	23.9	31.8	99.66	74.9	12.2	12.9	13.95	24.28	41	103	51.5	68.6	28.9	27.5	88								
300	12	323.8	52	26	34.6	112	71.9	13.1	13.6	14.9	22.2	43.6	68.7	34.4	45.8	144.96	94.9	17.4	18	19.93	29.81	57.7	171	85.5	114	47.7	44.6	143								
350	14	355.6	67.9	34	45.3			15.9	25.4	15.5	28.3	53.5	89.9	15	60			21.2	33.6	21	38	70.9	236	118	158	61.2	88.5	186								
400	16	406.4	89	44.5	59.1			20	31	18	32.7	66.1	118	59	78.3			26.7	41.1	24	44	87.7	350	175	234	92.8	121	260								
450	18	457	113	56.5	75.3			25.5	37.8	21	37.5	83.9	150	75.5	100			34.1	50.1	28	50	111	495	247	330	131	165	356								
500	20	508	140	70	93.1			31.8	55.4	23.3	41.7	104	186	93	124			42.5	74.9	31	56	138	676	338	451	179	233	502								
550	22	559	169	84.5	113			38.8	62.4	25.8	46.3	126	225	113	150			51.7	82.9	33	61	167	886	443	591	219		657								
600	24	610	202	101	135			45.1	68.4	28.4	50.5	139	268	134	179			60.1	91	37	67	186	1160	580	773	307		800								
650	26	660	237	119	158			50.5	89.4			176	315	158	210			67.3	119			234														
700	28	711	276	138	184			56.2	96.6			198	367	184	245			74.9	129			264														
750	30	762	316	158	211			62.1	104			228	421	211	281			82.8	138			304														
800	32	813	361	180	241			68.4	111			259	480	240	320			91.2	148			347														
850	34	864	406	204	272			75.4	116			295	543	272	362			100	158			393														
900	36	914	457	228	304			81.9	125			331	608	304	405			109	167			441														
950	38	965	510	255	340			94.7	133			370	679	339	453			126	177			493														
1000	40	1016	565	282	377			102	140			411	753	376	502			137	187			547														
1050	42	1067	622	311	416			110	147			422	828	414	554			147	196			562														
1100	44	1118	684	342	456			126	155			475	912	456	608			167	206			633														
1150	46	1168	748	374	499			134	189			521	997	498	665			179	252			695														
1200	48	1219	814	407	543			143	197			569	1085	542	724			191	263			759														

Note 1: All weights are approximate

Note 2: Weights shown are based on carbon steel.

Note 3: As a guide to stainless steel fittings weight use carbon steel Standard Weight for Sch 40S and carbon steel XS for Sch 80S

Note 1: All weights are approximate

Note 2: Weights shown are based on carbon steel.

Note 3: As a guide to stainless steel fittings weight use carbon steel Standard Weight for Sch 40S and carbon steel XS for Sch 80S

