

01 PIPE FITTINGS SERIES 管件系列

ZHIYU PIPE INDUSTRY



不锈钢管件法兰一站式方案解决商
STAINLESS STEEL PIPE FITTINGS FLANGE INTEGRATOR

PRODUCT
DISPLAY
产品展示



90°弯头
90° Elbow



45°弯头
45° Elbow



180°弯头
180° Elbow



偏心大小头
Eccentric Reducer



同心大小头
Concentric Reducer



同心大小头
Concentric Reducer



高压弯头
High Pressure Elbow



等径三通
Straight Tee



异径三通
Reducing Tee



翻边
Stub End



等径四通
Cross



管帽
Cap



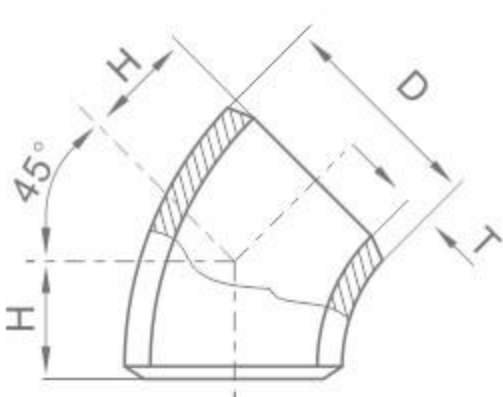
封头
Cap

BUTT WELDING ELBOW
对焊弯头

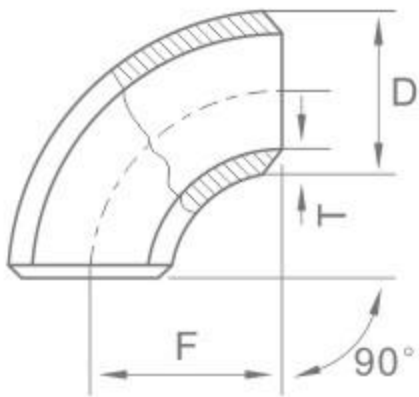


不锈钢管件法兰一站式方案解决商
STAINLESS STEEL PIPE FITTINGS FLANGE INTEGRATOR

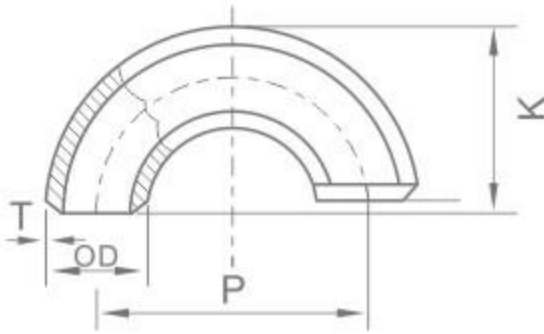
BUTT WELDING EQUAL
DIAMETER TEE、CROSS
对焊等径三通、四通



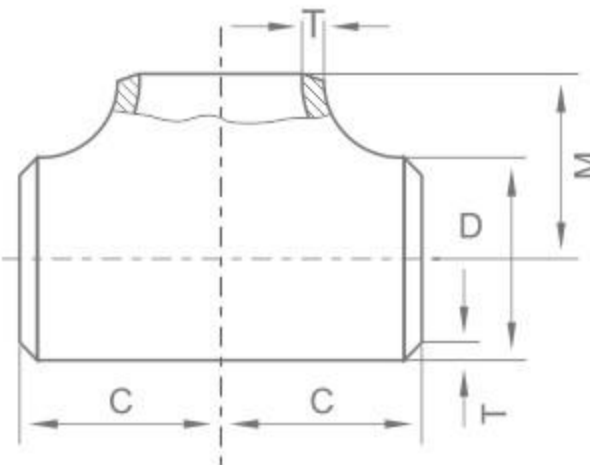
45° 弯头 Elbow



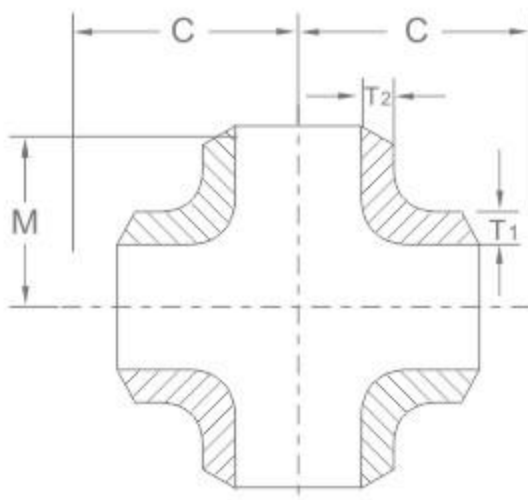
90° 弯头 Elbow



180° 弯头 Elbow



等径三通
Straight Outlet Tee



等径四通
Straight Outlet Cross

GB12459、GB/T13401

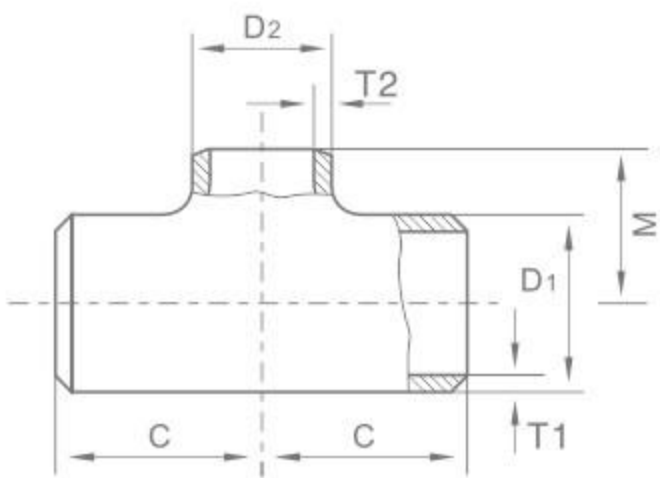
公称通径 Nominal Pipe size DN	端部外径 Outside Diameter at Bevel D		中心至端面 Center to End			中心至中心 Center to Center		背面至端面 Back to Faces	
			45° 弯头 Elbows.	90° 弯头 Elbows.		180° 弯头 Return		180° 弯头 Return	
			H	F		P		K	
	A系列 Series A	B系列 Series B	长半径 Long Radius	长半径 Long Radius	短半径 Short Radius	长半径 Long Radius	短半径 Short Radius	长半径 Long Radius	短半径 Short Radius
15	21.3	18	16	38	-	76	-	48	-
20	26.9	25	16	38	-	76	-	51	-
25	33.7	32	16	38	25	76	51	56	41
32	42.4	38	20	48	32	95	64	70	52
40	48.3	45	24	57	38	114	76	83	62
50	60.3	57	32	76	51	152	102	106	81
65	76.1(73)	76	40	95	64	191	127	132	100
80	88.9	89	47	114	76	229	152	159	121
90	101.6	-	55	133	89	267	178	184	140
100	114.3	108	63	152	102	305	203	210	159
125	139.7	133	79	190	127	381	254	262	197
150	168.3	159	95	229	152	457	305	313	237
200	219.1	219	126	305	203	610	406	414	313
250	273.0	273	158	381	254	762	508	518	391
300	323.9	325	189	457	305	914	610	619	467
350	355.6	377	221	533	356	1067	711	711	533
400	406.4	426	253	610	406	1219	813	813	610
450	457.2	478	284	686	457	1372	914	914	686
500	508.0	529	316	762	508	1524	1016	1016	762
550	559	-	347	838	559	注: 1) 尽可能不采用括号内数值。 2) 优先选用A系列。			
600	610	630	379	914	610				
650	660	-	410	991	660				
700	711	720	442	1067	711				
750	762	-	473	1143	762				
800	813	820	505	1219	813				
850	864	-	537	1295	864				
900	914	920	568	1372	914				
950	965	-	600	1448	965				
1000	1016	1020	631	1524	1016				
1050	1067	-	663	1600	1067				
1100	1118	1120	694	1676	1118				
1150	1168	-	726	1753	1168				
1200	1220	1120	758	1829	1219				

GB12459、GB/T13401

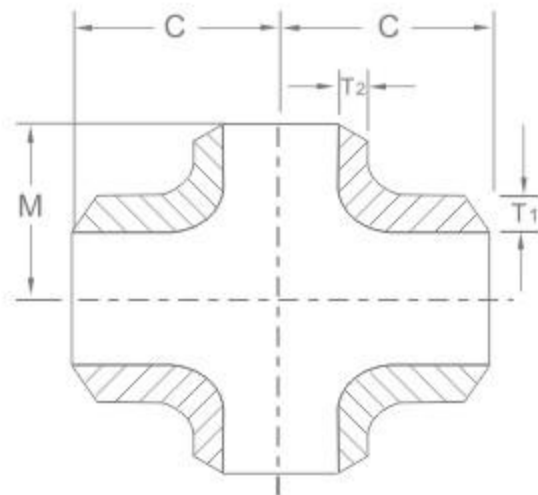
公称通径 Nor-minal Pipe Size DN	端部外径 Outside Diameter at Bevel		中心至端面 Center to end	
	D		C	M
	A系列 Series A	B系列 Series B		
15	21.3	18	25	
20	26.9	25	29	
25	33.7	32	38	
32	42.4	38	48	
40	48.3	45	57	
50	60.3	57	64	
65	76.1(73)	76	76	
80	88.9	89	86	
90	101.6	-	95	
100	114.3	108	105	
125	139.7	133	124	
150	168.3	159	143	
200	219.1	219	178	
250	273.0	273	216	
300	323.9	325	254	
350	355.6	377	279	
400	406.4	426	305	

公称通径 Nor-minal Pipe Size DN	端部外径 Outside Diameter at Bevel		中心至端面 Center to end	
	D		C	M
	A系列 Series A	B系列 Series B		
450	457.2	478	343	
500	508.0	529	381	
550	559	-	419	
600	610	630	432	
650	660	-	495	
700	711	720	521	
750	762	-	559	
800	813	820	597	
850	864	-	635	
900	914	920	673	
950	965	-	711	
1000	1016	1020	749	
1050	1067	-	762	711
1100	1118	1120	813	762
1150	1168	-	851	800
1200	1220	1120	889	838

注: 1) 尽可能不采用括号内数值。 2) 优先选用A系列。



异径三通
Reducing Outlet Tee



异径四通
Reducing Cross

GB12459、GB/T13401

公称通径 Nominal Pipe Size DN	端部外径 Outside Diameter at Bevel				中心至端面 Center to End	
	D1		D2		C	M
	A系列 Series A	B系列 Series B	A系列 Series A	B系列 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	6.1(73)	76	60.3	57	76	70
65x40	6.1(73)	76	48.3	45	76	67
65x32	6.1(73)	76	42.4	38	76	64
65x25	6.1(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

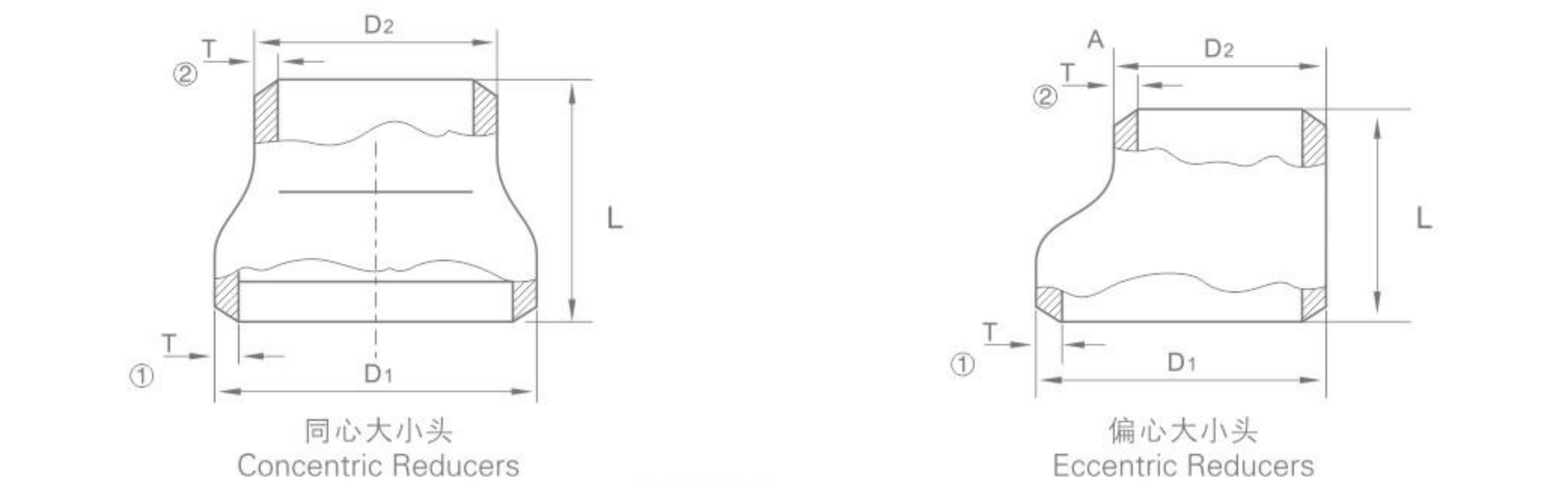
公称通径 Nominal Pipe Size DN	端部外径 Outside Diameter at Bevel				中心至端面 Center to End	
	D1		D2		C	M
	A系列 Series A	B系列 Series B	A系列 Series A	B系列 Series B		
100 × 90	114.3	-	101.6	-	105	102
100 × 80	114.3	108	88.9	89	105	98
100 × 65	114.3	108	76.1(73)	76	105	95
100 × 50	114.3	108	60.3	57	105	89
100 × 40	114.3	108	48.3	45	105	86
125 × 100	139.7	133	114.3	108	124	117
125 × 90	139.7	-	101.6	-	124	114
125 × 80	139.7	133	88.9	89	124	111
125 × 65	139.7	133	76.1(73)	76	124	108
125 × 50	139.7	133	60.3	57	124	105
150 × 125	168.3	159	139.7	133	143	137
150 × 100	168.3	159	114.3	108	143	130
150 × 90	168.3	-	101.6	-	143	127
150 × 80	168.3	159	88.9	89	143	124
150 × 65	168.3	159	76.1(73)	76	143	121
200 × 150	219.1	219	168.3	159	178	168
200 × 125	219.1	219	139.7	133	178	162
200 × 100	219.1	219	114.3	108	178	156
200 × 90	219.1	219	101.6	-	178	152
250 × 200	273.0	273	219.1	219	216	208
250 × 150	273.0	273	168.3	159	216	194
200 × 125	273.0	273	139.7	133	216	191
200 × 100	273.0	273	114.3	108	216	184
300 × 250	323.9	325	273.0	273	254	241
300 × 200	323.9	325	219.1	219	254	229
300 × 150	323.9	325	168.3	159	254	219

GB12459、GB/T13401

公称通径 Nominal Pipe Size DN	端部外径 Outside Diameter at Bevel				中心至端面 Center to End	
	D1		D2		C	M
	A系列 Series A	B系列 Series B	A系列 Series A	B系列 Series B		
300 × 125	323.9	325	139.7	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	168.3	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	-	419	406
550x450	559	-	457	-	419	394
550x400	559	-	406	-	419	381
600x550	610	-	559	-	432	432
600x500	610	630	508	530	432	432
600x450	610	630	457	480	432	419
650x600	660	-	610	-	495	483
650x550	660	-	559	-	495	470
650x500	660	-	508	-	495	457
700x650	711	-	660	-	521	521
700x600	711	720	610	630	521	508

注：1) 尽可能不采用括号内数值。 2) 优先选用A系列。

公称通径 Nominal Pipe Size DN	端部外径 Outside Diameter at Bevel				中心至端面 Center to End	
	D1		D2		C	M
	A系列 Series A	B系列 Series B	A系列 Series A	B系列 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	-	813	-	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
1050x1000	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



GB12459, GB/T13401

公称通径 Nominal Pipe Size DN	端部外径 Outside Diameter at Bevel				长度 End to End L
	D1		D2		
	A系列 Series A	B系列 Series B	A系列 Series A	B系列 Series B	
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	133	114.3	108	127
125x90	139.7	—	101.6	—	127
125x80	139.7	133	88.9	89	127

公称通径 Nominal Pipe Size DN	端部外径 Outside Diameter at Bevel				长度 End to End L
	D1		D2		
	A系列 Series A	B系列 Series B	A系列 Series A	B系列 Series B	
125x65	139.7	133	76.1(73)	76	127
125x50	139.7	133	60.3	57	127
150x125	168.3	159	139.7	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	133	152
200x100	219.1	219	114.3	108	152
200x90	219.1	—	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	133	178
250x100	273.0	273	114.3	108	178
300x250	323.9	325	273.0	273	203
300x200	323.9	325	219.1	219	203
300x150	323.9	325	168.3	159	203
300x125	323.9	325	139.7	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

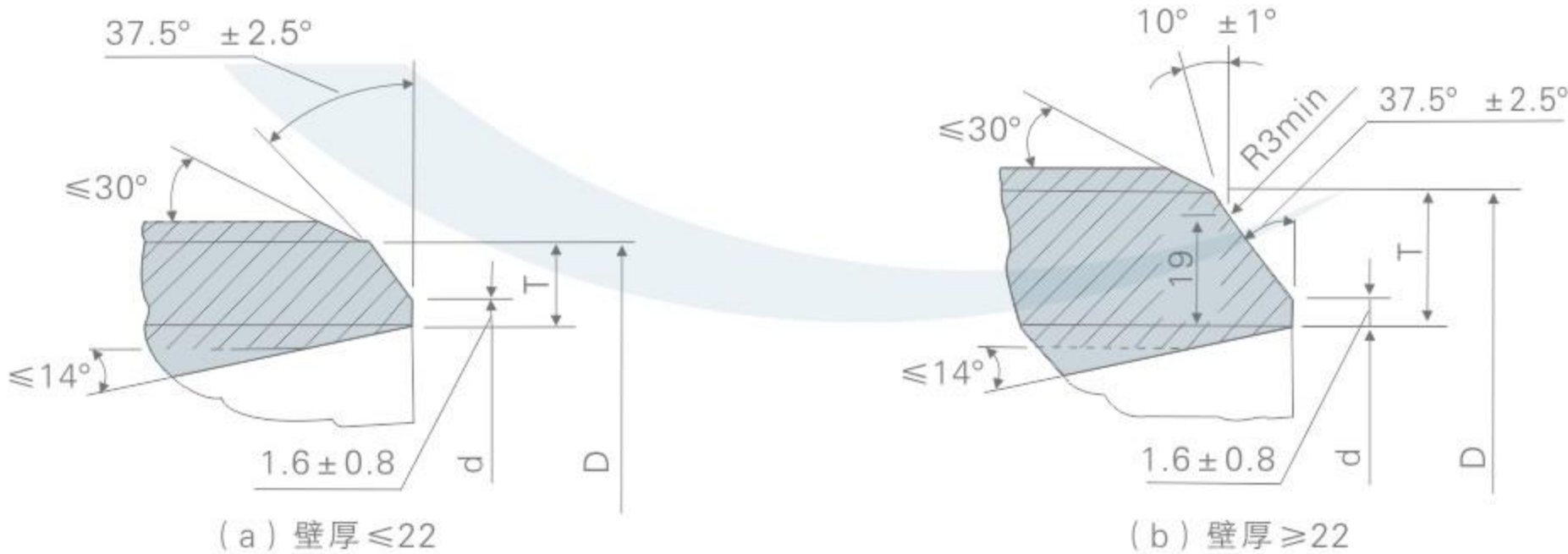
GB12459, GB/T13401

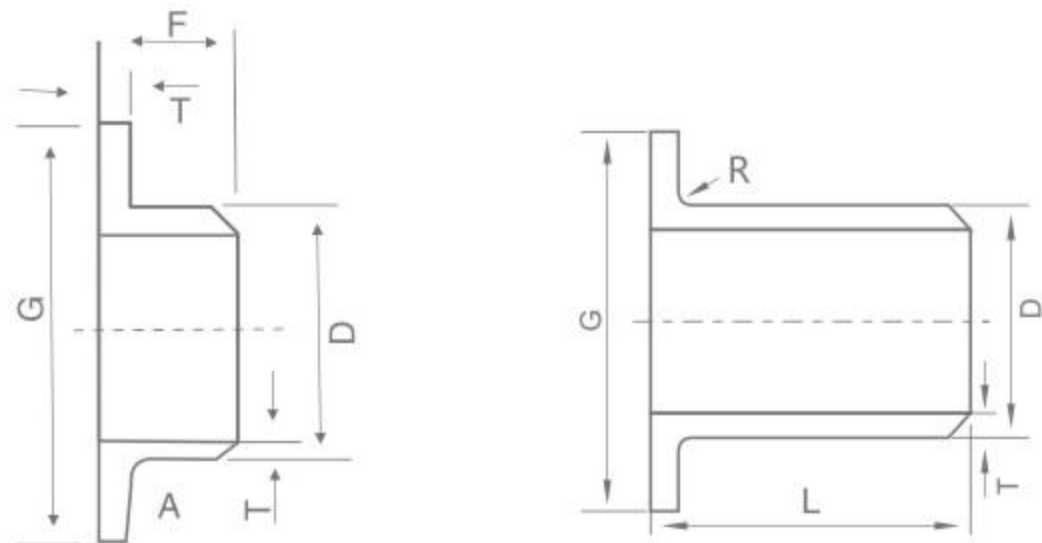
公称通径 Nominal Pipe size DN	端部外径 Outside Diameter at Bevel				长度 End to End L
	D1		D2		
	A系列 Series A	B系列 Series B	A系列 Series A	B系列 Series B	
550x500	559	—	508	—	508
550x450	559	—	457	—	508
550x400	559	—	406	—	508
550x350	559	—	356	—	508
600x550	610	—	559	—	508
600x500	610	630	508	530	508
600x450	610	630	457	480	508
600x400	610	630	406	426	508
650x600	660	—	610	—	610
650x550	660	—	559	—	610
650x500	660	—	508	—	610
650x450	660	—	457	—	610
700x650	711	—	660	—	610
700x600	711	720	610	630	610
700x550	711	—	559	—	610
700x500	711	720	508	530	610
750x700	762	—	711	—	610
750x650	762	—	660	—	610
750x600	762	—	610	—	610
750x550	762	—	559	—	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	—	762	—	610
850x700	864	—	711	—	610
850x650	864	—	660	—	610

公称通径 Nominal Pipe size DN	端部外径 Outside Diameter at Bevel				长度 End to End L
	D1		D2		
	A系列 Series A	B系列 Series B	A系列 Series A	B系列 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	1016	1020	711

注：1) 尽可能不采用括号内数值。 2) 优先选用A系列。

规定的对焊管件端坡口的结构型式 GB12459 GB/T13401
End Preparation of Butt-welding Fittings to GB 12459&GB/T 13401



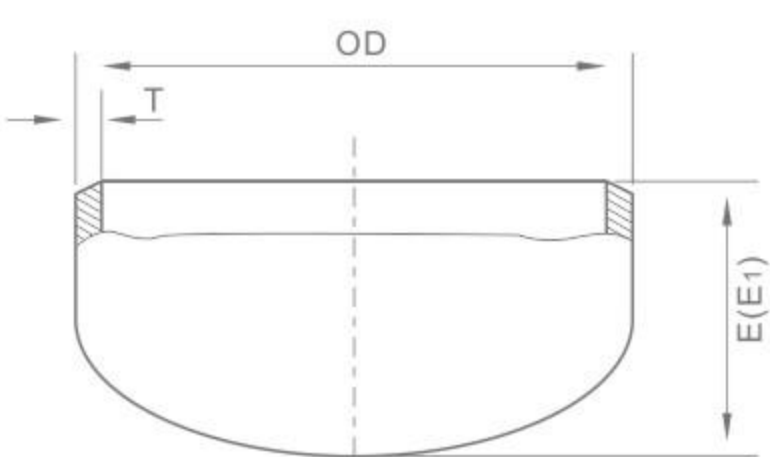


翻边接头
Lap joint stub ends

尺寸/SE对焊环 Size SE butt welding ring

公称通径 Nominal Pipe size DN(in)	端部外径 Outside Diameter at Bevel D		长度 Length L	圆角半径 Radius of fillet R	搭线直径 Diameter of Lap G
	A系列 SeriesA	B系列 SeriesB			
15	21.3	18	38	2	46
20	26.9	25	40	2	56
25	33.7	32	40	3	65
32	42.4	38	42	3	76
40	48.3	45	45	3	84
50	60.3	57	48	3	99
65	76.1	76	48	3	118
80	88.9	89	50	4	132
100	114.3	108	52	4	156
125	139.7	133	55	4	184
150	168.3	159	55	4	211
200	219.1	219	62	5	266
250	273	273	70	5	319
300	323.9	325	78	5	370
350	355.6	377	82	5	429
400	406.4	426	85	5	480
450	457	478	87	5	548
500	508	529	90	6	609
600	610	630	95	6	720

注：1、本表尺寸适用对焊环松套钢制管法兰（HG20599-97）PN1.6Mpa。
2、客户要求不同压力及型号，请在合同上注册。



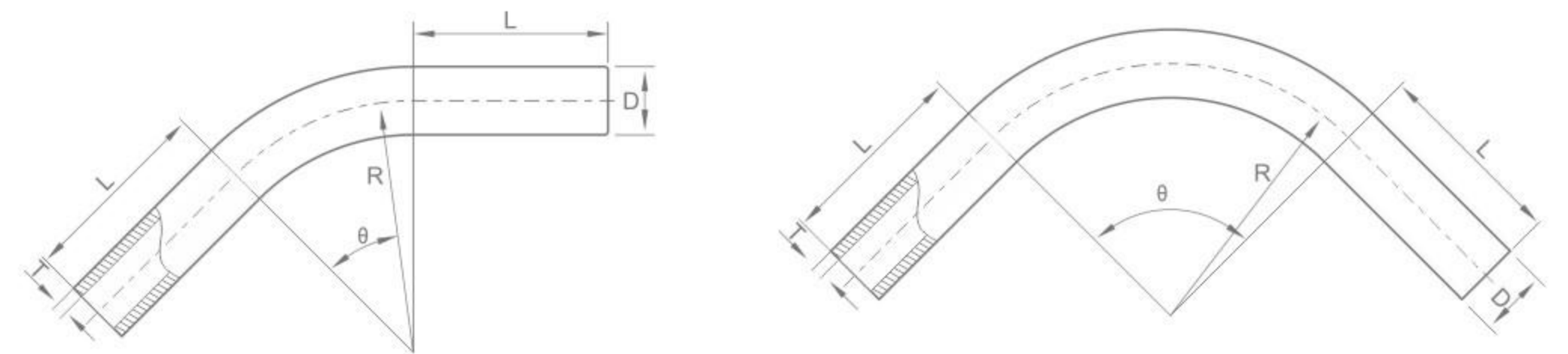
管帽
Cap

GB 12459、GB/T 13401

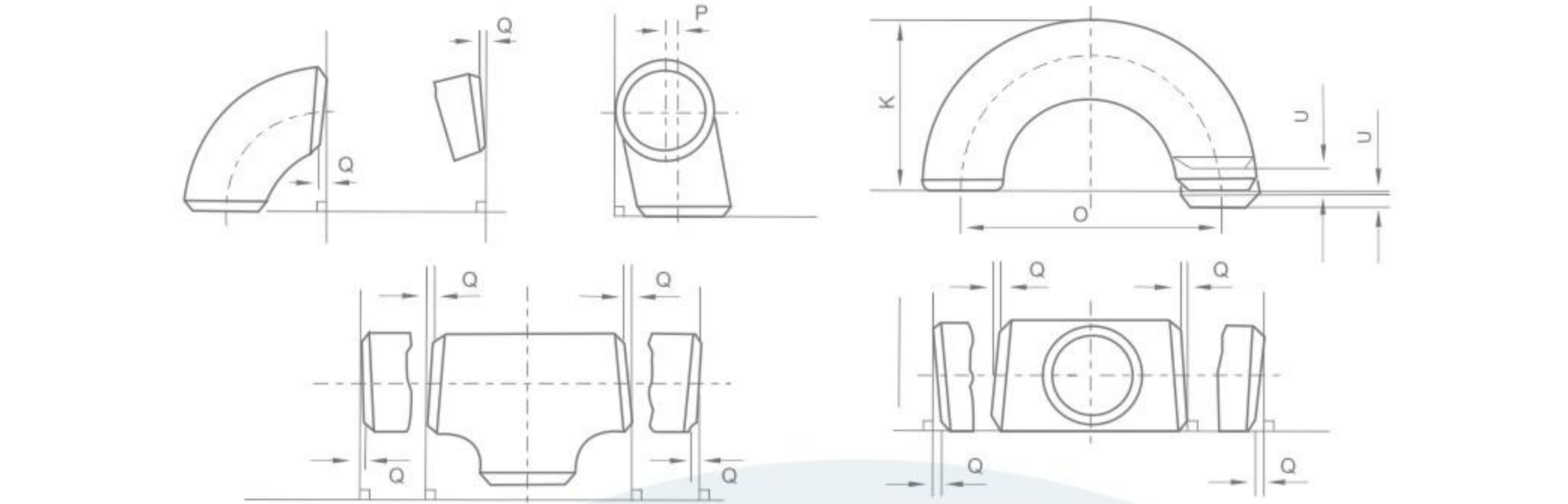
公称通径 Nominal Pipe size DN	端部外径D Outside Diameter at Bevel		全长 Length		对尺寸E的 限制厚度 Limiting Wall Thickness for Length E
	A系列 Series A	B系列 Series B	E	E1	
15	21.3	18	25	-	-
20	26.9	25	25	-	-
25	33.7	32	38	-	-
32	42.4	38	38	-	-
40	48.3	45	38	-	-
50	60.3	57	38	44	5.5
65	76.1(73)	76	38	51	7.0
80	88.9	89	51	64	7.6
90	101.6	-	64	76	8.1
100	114.3	108	64	76	8.6
125	139.7	133	76	89	9.5
150	168.3	159	89	102	11.0
200	219.1	219	102	127	12.7
250	273.0	273	127	152	12.7
300	323.9	325	152	178	12.7
350	355.6	377	165	191	12.7
400	406.4	426	178	203	12.7
450	457.2	478	203	229	12.7
500	508.0	529	229	254	12.7

公称通径 Nominal Pipe size DN	端部外径D Outside Diameter at Bevel		全长 Length E
	A系列 Series A	B系列 Series B	
550	559	-	254
600	610	630	267
650	660	-	267
700	711	720	267
750	762	-	267
800	813	820	267
850	864	-	267
900	914	920	267
950	965	-	305
1000	1016	1020	305
1050	1067	-	305
1100	1118	1120	343
1150	1168	-	343
1200	1220	1220	343

注：1）DN600的管帽，当壁厚超过13mm时其E值改为305mm。
2）尽可能不采用括号内的数值。
3）管帽的全长不大于限制厚度时为E，超过限制厚度为E1。



项目 Item	内容 Description
标准 Standard	按DL/T515《电站弯管》、SY5257《钢制弯管》执行，或按顾客提出的标准或技术要求执行 according to DL/T515《power station Bend》, SY5257《steel Bend》, or customer's technical drawings
材料 Material	碳钢、合金钢、不锈钢 carbon steel, alloy steel, stainless steel
弯曲半径 R Bend Radius R	$R \leq 6000\text{mm} \geq 3D$ (用R等于3D、4D、5D、6D、7D、8D、9D、10D来表示弯曲半径，D为管子外径) $R \geq 3D$ (R=3D、4D、5D、6D、7D、8D、9D、10D) D: outside diameter
弯曲半径 θ Bend Angle θ	常用为15°、45°、60°、90°、135°、和180°、，也可以按顾客提出的角度弯制 normally 15°、30°、45°、60°、90°、135°、80° or at customer's option
直段长度 L Length of Straight L	弯管两端直段长度一般在300mm-1500mm,由顾客确定长度的大小 normally between 300mm and 1500mm in length of straight, It is at customer's option
外径 D Outside Diameter D	$D \leq 1220\text{mm}$
壁厚 T Wall Thickness T	$T \leq 120\text{mm}$
端部坡口 End Bevel	按对焊管件端部坡口结构型执行 according to welding bevel of butt welding fitting
重量 Weight	$\text{重量/kg} = \frac{0.0433(D-T)TR\theta}{100000} + \frac{L(\text{双直管段重量})}{L(\text{Weight of Double Sides Straight Length})}$

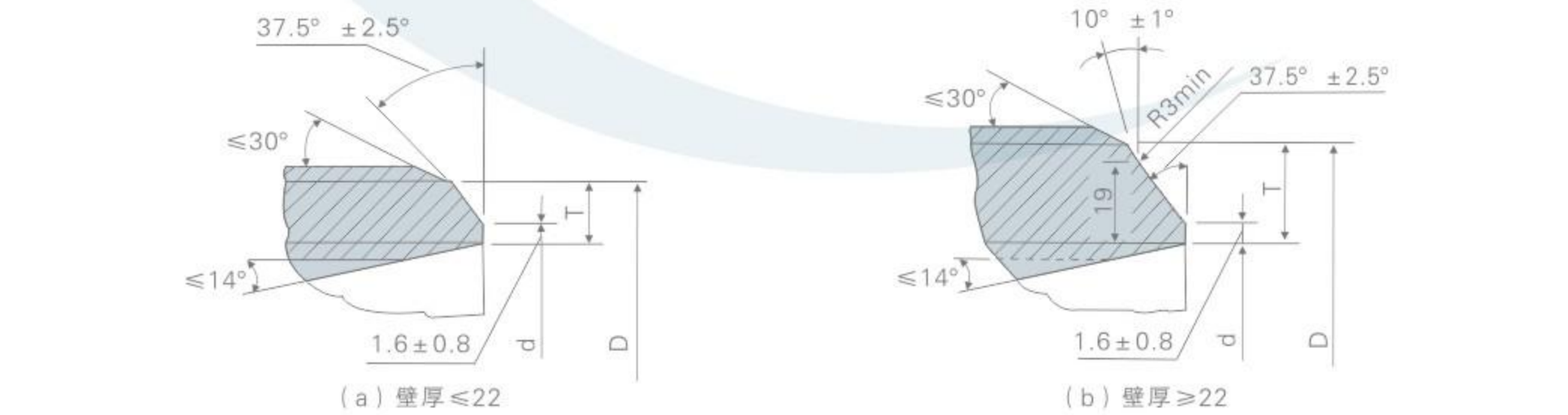


公差表 Tolerance table

所有管件 Parts of all pipes					90° 45° 弯头、三通、四通 结构尺寸 Elbows, Tee, Cross Center-to-End Dimension	异径接头 变径管高度 Reducer Lao joint Stub End Overall Length	管帽 Caps 高度 Overall Length	180° 弯头 elbow piece		
公称通径 Nominal diaeter		端面外径 Outside Diameter at Bevel	端面内径 Inside Diameter at Bevel	壁厚 Thickness	ABC	HF	EE1	中心距 center-to-center dimension	高度 Back-to-Face dimension	端面误差 Alignment of Ends
DN	NPS	OD D1 D2	ID	T				O	K	U
15-65	1/2-2 1/2	+1.6-0.8	0.8	壁厚 Thickness T 不小于 工程壁厚 的87.5% No less than 87.5% of nominal wall thickness	2	2	3	6	6	1
80-90	3-3 1/2	+1.6	1.6		2	2	3	6	6	1
100	4	+1.6	1.6		2	2	3	6	6	1
125-200	5-8	+2.4-1.6	1.6		2	2	6	6	6	1
250-450	10-18	+4.0-3.2	3.2		2	2	6	10	6	2
500-600	20-24	+6.4-4.8	4.8		2	2	6	10	6	2
650-750	26-30	+6.4-4.8	4.8		3	5	10	-	-	-
800-1200	37-48	+6.4-4.8	4.8		5	5	10	-	-	-
13000-15000	52-60	+9.5-6.4	6.4		9.5	-	-	-	-	-
16000-17000	64-68	+12-9.5	9.5		12	-	-	-	-	-
18000-2000	72-80	+16-12	12		16	-	-	-	-	-

公称通径 Nominal Pipe Size		DN NPS	15-100 1/2-4	125-200 5-8	250-300 10-12	350-400 14-16	450-600 18-24	650-750 26-30	800-1050 32-42	1100-1200 44-48	1300-1500 52-60
倾斜度偏差 Angular tolerance	角度偏移 Off Angle	Q	1	2	3	3	4	5	5	5	6.4
	平面偏移 Off Plan	P	2	4	5	6	10	10	13	19	20

规定的对焊管件端部坡口的结构型式 ASME/ANSI B16.9 B16.28
End Preparation of Butt-welding Fittings to ASME/ANSI B16.9 B16.28



公称通径 Nominal Pipe Size	外径 Outside Diameter		公称壁厚 T Nominal Wall Thickness														
			SCH 5s	SCH 10s	SCH 20s	LG	SCH 20	SCH 30	STD	SCH 40	SCH 60	XS	SCH 80	SCH 100	SCH 120	SCH 140	SCH 160
15	21.3	18	1.6	2.1	2.6	-	-	-	-	2.9	-	-	3.6	-	-	-	4.5
20	26.9	25	1.6	2.1	2.6	-	-	-	-	2.9	-	-	4.0	-	-	-	5.6
25	33.7	32	1.6	2.8	3.2	-	-	-	-	3.2	-	-	4.5	-	-	-	6.3
32	42.4	38	1.6	2.8	3.2	-	-	-	-	3.6	-	-	5.0	-	-	-	6.3
40	48.3	45	1.6	2.8	3.2	-	-	-	-	3.6	-	-	5.0	-	-	-	7.1
50	60.3	57	1.6	2.8	3.6	-	3.2	-	-	4.0	-	-	5.6	-	-	-	8.8
65	76.1(73)	76	2.0	3.0	3.6	-	4.5	-	-	5.0	-	-	7.1	-	-	-	10.0
80	88.9	89	2.0	3.0	4.0	-	4.5	-	-	5.6	-	-	8.0	-	-	-	11.0
90	101.6	-	2.0	3.0	4.0	-	4.5	-	-	5.6	-	-	8.0	-	-	-	12.5
100	114.3	108	2.0	3.0	4.0	-	5.0	-	-	5.9	-	-	8.8	-	11.0	-	14.2
125	139.7	133	2.9	3.4	5.0	-	5.0	-	-	6.3	-	-	10.0	-	12.5	-	16.0
150	168.3	159	2.9	3.4	5.0	-	5.6	-	-	7.1	-	-	11.0	-	14.2	-	17.5
200	219.1	219	2.9	4.0	6.3	-	6.3	7.1	-	8.0	10.0	-	12.5	16.0	17.5	20.0	22.2
250	273.0	273	3.6	4.0	6.3	-	6.3	8.0	-	8.8	12.5	-	16.0	17.5	22.2	25.0	28.0
300	323.9	325	4.0	4.5	6.3	-	6.3	8.8	-	10.0	14.2	-	17.5	22.2	25.0	28.0	32.0
350	355.6	377	4.0	5.0	-	8.0	8.0	10.0	10.0	11.0	16.0	13.0	20.0	25.8	28.0	32.0	36.0
400	406.4	426	4.0	5.0	-	8.0	8.0	10.0	10.0	12.5	17.5	13.0	22.2	28.0	30.0	36.0	40.0
450	457.2	478	4.0	5.0	-	8.0	8.0	11.0	10.0	14.2	20.0	13.0	25.0	30.0	36.0	40.0	45.0
500	508.0	529	5.0	5.6	-	8.0	10.0	12.5	10.0	16.0	20.0	13.0	28.0	32.0	40.0	45.0	50.0
550	559	-	5.0	5.6	-	8.0	-	-	10.0	-	-	13.0	30.0	-	-	-	-
600	610	630	5.6	6.3	-	8.0	-	-	10.0	17.5	-	13.0	32.0	-	-	-	-
650	660	-	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-
700	711	720	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-
750	762	-	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-
800	813	820	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-
850	864	-	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-
900	914	920	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-
950	965	-	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-
1000	1016	1020	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-
1050	1067	-	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-
1100	1118	1120	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-
1150	1168	-	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-
1200	1220	1220	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-

SCH5s、10s、20s用于不锈钢管件
SCH5s、10s、20s applies for stainless steel fittings.

公称通径 Nominal Pipe Size	外径 Outside Diameter	公称壁厚 T Nominal Wall Thickness						
		公称压力 MPa Nominal Pressure						
DN	D	10	1.6	2.5	4.0	6.4	10.0	16.0
15	18	3	3	3	3	3	-	-
20	25	3	3	3	3	3	-	-
25	32	3.5	3.5	3.5	3.5	3.5	4.5	6.5
32	38	3.5	3.5	3.5	3.5	3.5	4.5	7
40	45	3.5	3.5	3.5	3.5	3.5	4.5	7
50	57	3.5	3.5	3.5	3.5	3.5	5	7
65	76	4	4	4	4	4.5	6	8
80	89	4	4	4	4	5	7	9
100	108	4	4	4	4	6	8	10
125	133	4	4	4	4	7	10	11
150	159	4.5	4.5	4.5	4.5	8	12	14
200	219	6	6	6	7	10	14	18
250	273	8	8	8	8	11	16	24
300	325	8	8	8	9	12	18	28
350	377	9	9	9	9	15	22	30
400	428	9	9	9	11	16	24	34
450	478	9	9	10	12	18	26	38
500	529	9	9	11	14	20	28	40
600	630	9	9	12	15	22	-	-

OUTSIDE DIAMETER AND WALL THICKNESS TABLE
外径和壁厚表



不锈钢管件法兰一站式方案解决商
STAINLESS STEEL PIPE FITTINGS FLANGE INTEGRATOR

COMMON MATERIAL OF PRESSURE PIPE FITTING IN CHINA
中国压力管道管件常用材料

公称通径 Nominal Pipe Size			外径 Outside Diameter	公称壁厚 T Nominal Wall Thickness															
DN	NPS	D	SCH 5s	SCH 10s	SCH 10	SCH 20	SCH 30	SCH 40s	STD	SCH 40	SCH 60	SCH 80s	XS	SCH 80	SCH 100	SCH 120	SCH 140	SCH 160	XXS
6	1/8	10.3	-	1.24	-	-	-	1.73	1.73	1.73	-	2.41	2.41	2.41	-	-	-	-	-
8	1/4	13.7	-	1.65	-	-	-	2.24	2.24	2.24	-	3.02	3.02	3.02	-	-	-	-	-
10	3/8	17.1	-	1.65	-	-	-	2.31	2.31	2.31	-	3.20	3.20	3.20	-	-	-	-	-
15	1/2	21.3	1.65	2.11	-	-	-	2.77	2.77	2.77	-	3.73	3.73	3.73	-	-	-	4.78	7.47
20	3/4	26.7	1.65	2.11	-	-	-	2.87	2.87	2.87	-	3.91	3.91	3.91	-	-	-	5.56	7.82
25	1	33.4	1.65	2.77	-	-	-	3.38	3.38	3.38	-	4.55	4.55	4.55	-	-	-	6.35	9.09
32	1 1/4	42.2	1.65	2.77	-	-	-	3.56	3.56	3.56	-	4.85	4.85	4.85	-	-	-	6.35	9.70
40	1 1/2	48.3	1.65	2.77	-	-	-	3.68	3.68	3.68	-	5.08	5.08	5.08	-	-	-	7.14	10.15
50	2	60.3	1.65	2.77	-	-	-	3.91	3.91	3.91	-	5.54	5.54	5.54	-	-	-	8.74	11.07
65	2 1/2	73.0	2.11	3.05	-	-	-	5.16	5.16	5.16	-	7.01	7.01	7.01	-	-	-	9.53	14.02
80	3	88.9	2.11	3.05	-	-	-	5.49	5.49	5.49	-	7.62	7.62	7.62	-	-	-	11.13	15.24
90	3 1/2	101.6	2.11	3.05	-	-	-	5.74	5.74	5.74	-	8.08	8.08	8.08	-	-	-	-	-
100	4	114.3	2.11	3.05	-	-	-	6.02	6.02	6.02	-	8.56	8.56	8.56	-	11.13	-	13.49	17.12
125	5	141.3	2.77	3.40	-	-	-	6.55	6.55	6.55	-	9.53	9.53	9.53	-	12.70	-	15.88	19.05
150	6	168.3	2.77	3.40	-	-	-	7.11	7.11	7.11	-	10.97	10.97	10.97	-	14.27	-	18.26	21.95
200	8	219.1	2.77	3.76	-	6.35	7.04	8.18	8.18	8.18	10.31	12.70	12.70	12.70	15.09	18.26	20.62	23.01	22.23
250	10	273.1	3.40	4.19	-	6.35	7.80	9.27	9.27	9.27	12.70	12.70	12.70	15.09	18.26	21.44	25.40	28.58	25.40
300	12	323.9	3.96	4.57	-	6.35	8.38	9.53	9.53	10.31	14.27	12.70	12.70	17.48	21.44	25.40	28.58	33.32	25.40
350	14	355.6	3.96	4.78	6.35	7.92	9.53	-	9.53	11.13	15.09	-	12.70	19.05	23.83	27.79	31.75	35.71	-
400	16	406.4	4.19	4.78	6.35	7.92	9.53	-	9.53	12.70	16.66	-	12.70	21.44	26.19	30.96	36.53	40.49	-
450	18	457.2	4.19	4.78	6.35	7.92	11.13	-	9.53	14.27	19.05	-	12.70	23.83	29.36	34.93	39.67	45.24	-
500	20	508	4.78	5.54	6.35	9.53	12.70	-	9.53	15.09	20.62	-	12.70	26.19	32.54	38.10	44.45	50.01	-
-	22	559	4.78	5.54	6.35	9.53	12.70	-	9.53	-	22.23	-	12.70	28.58	34.93	41.28	47.63	53.98	-
600	24	610	5.54	6.35	6.35	9.53	14.27	-	9.53	17.48	24.61	-	12.70	30.96	38.89	46.02	52.37	59.54	-
-	26	660	-	-	7.92	12.70	-	-	9.53	-	-	-	12.70	-	-	-	-	-	-
700	28	711	-	-	7.92	12.70	15.88	-	9.53	-	-	-	12.70	-	-	-	-	-	-
-	30	762	6.35	7.92	7.92	12.70	15.88	-	9.53	-	-	-	12.70	-	-	-	-	-	-
800	32	813	-	-	7.92	12.70	15.88	-	9.53	17.48	-	-	12.70	-	-	-	-	-	-
-	34	864	-	-	7.92	12.70	15.88	-	9.53	17.48	-	-	12.70	-	-	-	-	-	-
900	36	914	-	-	7.92	12.70	15.8	-	9.53	19.05	-	-	12.70	-	-	-	-	-	-
-	38	965	-	-	-	-	-	-	9.53	-	-	-	12.70	-	-	-	-	-	-
1000	40	1016	-	-	-	-	-	-	9.53	-	-	-	12.70	-	-	-	-	-	-
-	42	1067	-	-	-	-	-	-	9.53	-	-	-	12.70	-	-	-	-	-	-
1100	44	1118	-	-	-	-	-	-	9.53	-	-	-	12.70	-	-	-	-	-	-
-	46	1168	-	-	-	-	-	-	9.53	-	-	-	12.70	-	-	-	-	-	-
1200	48	1219	-	-	-	-	-	-	9.53	-	-	-	12.70	-	-	-	-	-	-

SCH5s、10s、40s、80s用于不锈钢管件
SCH5s、10s、40s、80s applies for stainless steel fittings.

	牌号 Grade	标准号 Standard and Code	类型 Type	化学成分 Chemical Compositin %, max								力学性能 Mechanical Properties						
				C	Si	Mn	Cr	Ni	Cu	Mo	P	S	Other	φ b MPa min	φ a MPa min	φ 5 % min	HB max	Other
奥氏体 不锈钢 Austenitic Stainless Steel	00Cr17Ni14Mo2	GB 1220	棒BAR	0.030	1.00	2.00	16.00-18.00	12.00-15.00	2.00-3.00	0.035	0.030	-	480	177	40	187	φ %: 60	
	00Cr17Ni14Mo2	GB 4237	板PLATE	0.030	1.00	2.00	16.00-18.00	12.00-15.00	2.00-3.00	0.035	0.030	-	480	177	40	187	-	
	00Cr17Ni14Mo2	GB/T14976	管PIPE	0.030	1.00	2.00	16.00-18.00	12.00-15.00	2.00-3.00	0.035	0.030	-	480	175	35	-	-	
	00Cr19Ni10	GB 1220	棒BAR	0.030	1.00	2.00	18.00-20.00	8.00-12.00	-	0.035	0.030	-	480	177	40	187	φ %: 60	
	00Cr19Ni10	GB 4237	板PLATE	0.030	1.00	2.00	18.00-20.00	8.00-12.00	-	0.035	0.030	-	480	177	40	187	-	
	00Cr19Ni10	GB/T14976	管PIPE	0.030	1.00	2.00	18.00-20.00	8.00-12.00	-	0.030	0.030	-	480	175	35	-	-	
	0Cr17Ni12Mo2	GB 1220	棒BAR	0.08	1.00	2.00	16.00-18.50	10.00-14.00	2.00-3.00	0.035	0.030	-	520	205	40	187	φ %: 60	
	0Cr17Ni12Mo2	GB 4237	板PLATE	0.08	1.00	2.00	16.00-18.00	10.00-14.00	2.00-3.00	0.035	0.030	-	520	205	40	187	-	
	0Cr17Ni12Mo2	GB/T14976	管PIPE	0.08	1.00	2.00	16.00-18.50	10.00-14.00	2.00-3.00	0.035	0.030	-	520	205	35	-	-	
	0Cr18Ni9	GB 1220	棒BAR	0.07	1.00	2.00	17.00-19.00	8.00-11.00	-	0.035	0.030	-	520	205	40	187	φ %: 60	
	0Cr18Ni9	GB 4237	板PLATE	0.07	1.00	2.00	17.00-19.00	8.00-11.00	-	0.035	0.030	-	520	205	40	187	-	
	0Cr18Ni9	GB/T14976	管PIPE	0.07	1.00	2.00	17.00-19.00	8.00-11.00	-	0.035	0.030	-	520	205	35	-	-	
	0Cr18Ni10Ti	GB 1220	棒BAR	0.08	1.00	2.00	17.00-19.00	9.00-12.00	-	0.035	0.030	Ti: 5C	520	205	40	187	φ %: 50	
	0Cr18Ni10Ti	GB 4237	板PLATE	0.08	1.00	2.00	17.00-19.00	9.00-12.00	-	0.035	0.030	Ti: 5C	520	205	40	187	-	
	0Cr18Ni10Ti	GB/T14976	管PIPE	0.08	1.00	2.00	17.00-19.00	9.00-12.00	-	0.030	0.030	Ti: 5C	520	205	35	-	-	
双相 不锈钢 Biphase Stainless Steel	0Cr18Ni12Mo2Ti	GB 1220	棒BAR	0.08	1.00	2.00	16.00-19.00	11.00-14.00	1.80-2.50	0.035	0.030	Ti: 5C-0.7	530	205	40	187	φ %: 55	
	0Cr18Ni12Mo2Ti	GB 4237	板PLATE	0.08	1.00	2.00	16.00-19.00	11.00-14.00	1.80-2.50	0.035	0.030	Ti: 5C-0.7	530	205	37	187	-	
	0Cr18Ni12Mo2Ti	GB/T14976	管PIPE	0.08	1.00	2.00	16.00-19.00	11.00-14.00	1.80-2.50	0.035	0.030	Ti: 5C-0.7	530	205	35	-	-	
	1Cr18Ni9	GB 4237	板PLATE	0.15	1.00	2.00	17.00-19.00	8.00-10.00	-	0.035	0.030	-	520	205	40	187	-	
	1Cr18Ni9	GB 5310	管PIPE	0.15	1.00	2.00	17.00-19.00	8.00-10.00	-	0.035	0.030	Cu: 0.20	520	205	35	-	-	
	0Cr26Ni5Mo2	GB 1220	棒BAR	0.08	1.00	1.50	23.00-28.00	3.00-6.00	1.00-3.00	0.035	0.030	-	590	390	18	277	φ %: 40	
	0Cr26Ni5Mo2	GB 4237	板PLATE	0.08	1.00	1.50	23.00-28.00	3.00-6.00	1.00-3.00	0.035	0.030	-	590	390	18	277	-	
	0Cr26Ni5Mo2	GB 14976	管PIPE	0.08	1.00	1.50	23.00-28.00	3.00-6.00	1.00-3.00	0.035	0.030	-	590	390	18	-	-	
	00Cr18Ni5Mo3Si2	GB 1220	棒BAR	0.030	1.30-2.00	1.00-2.00	18.00-19.50	4.50-5.50	2.50-3.00	0.035	0.030	-	590	390	20	-	φ %: 40	
	00Cr18Ni5Mo3Si2	GB 4237	板PLATE	0.030	1.30-2.00	1.00-2.00	18.0-19.5	4.5-5.5	2.5-3.0	0.030	0.030	N: 0.10	590	390	20	-	-	
	09MnNiDR	GB 3531	板PLATE	0.012	0.15-0.50	1.20-1.60	0.25	0.30-0.80	0.08	0.025	0.020	Nb: 0.04; Als:0.015	440-570	290	22	-	Akv J: 27	
	16Mn	GB 6479	管PIPE	0.12-0.20	0.20-0.60	1.20-1.60	-	-	-	0.040	0.040	Cu: 0.25	490-670	320	21	-	ak Jcm2: 59	
	16Mng	GB 731	板PLATE	0.20	0.20-0.55	1.20-1.60	0.30	0.30	0.10	0.035	0.030	Cu: 0.30	510-655	345	21	-	ak J: 27	
	16MnDR	GB 3531	板PLATE	0.20	0.15-0.50	1.20-1.60	0.25	0.40	0.08	0.030	0.025	Cu: 0.25	490-620	315	21	-	ak J: 24	
	16MnR	GB 6654	板PLATE	0.20	0.20-0.55	1.20-1.60	0.30	0.30	-	0.035	0.030	Cu: 0.30	510-640	345	21	-	ak J: 31	