

TANA[®]

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WENZHOU TOPNOTCH MACHINE CO.,LTD.

温州泰纳机械有限公司
WENZHOU TOPNOTCH MACHINE CO.,LTD.

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Brief Introduction

Wenzhou Topnotch Machine Co.,Ltd., brand name TANA .established in the year 2003, located at China famous pump&valve TownOubei,Wenzhou. We'respecialized in producing and marketing all kinds of industrial valves,pump & actuators. Our corporate Vision is to be a pipeline control specialist by supply products and help our valued customers solve their problems with excellent sales & after-sales service, and also reasonable price.

Over the years, we already have expanded our operations with team of well experienced design,manufacturing and marketing engineers. We have 100 -150 employees,around 50 sets advantaged producing equipments, which ensure our production ability. Our products have been widely application in the gas, oil, refining, chemical, marine, power generation and pipeline transmission industries. And 80% of products are supplied to SoutheastAsia, the Middle East, North America, Europe and Africa, more than 30 oversea countries' we have accumulated good reputation from our clients.

Quality is at the heart of everything we do, through product development to manufacturing, supply and sale. We make products strictly according to International standards & clients' requirements, and have established quality control system to ensure us offer the high quality products.

"Keep the promise and offer the top-class products &service" is our principle, we believe that we can establish and maintain long term win-win cooperation through our mutual effort by reasonable price, good quality product and best service.

Welcome to contact us, thank you!





45° 弯头
45° Elbow



45° 焊接弯头
45° Welding Elbow



平焊法兰
Plate Flange



90° 弯头
90° Elbow



90° 焊接弯头
90° Welding Elbow



环连接面整体钢制法兰
Ring Type Joint Flange



180° 弯头
180° Elbow



180° 焊接弯头
180° Welding Elbow



蝶阀专用法兰
Reed Valve Special-Purpose Flange



等径三通
Equal Tee



焊接三通
Welding Tee



带颈平焊法兰
Belt Neck Plate Flange



偏心异径管
Eccentric Reducers



承插三通
Welding Crosses



带颈对焊法兰
Belt Neck Butt Welding Flange



翻边管
Lap Joint Tube

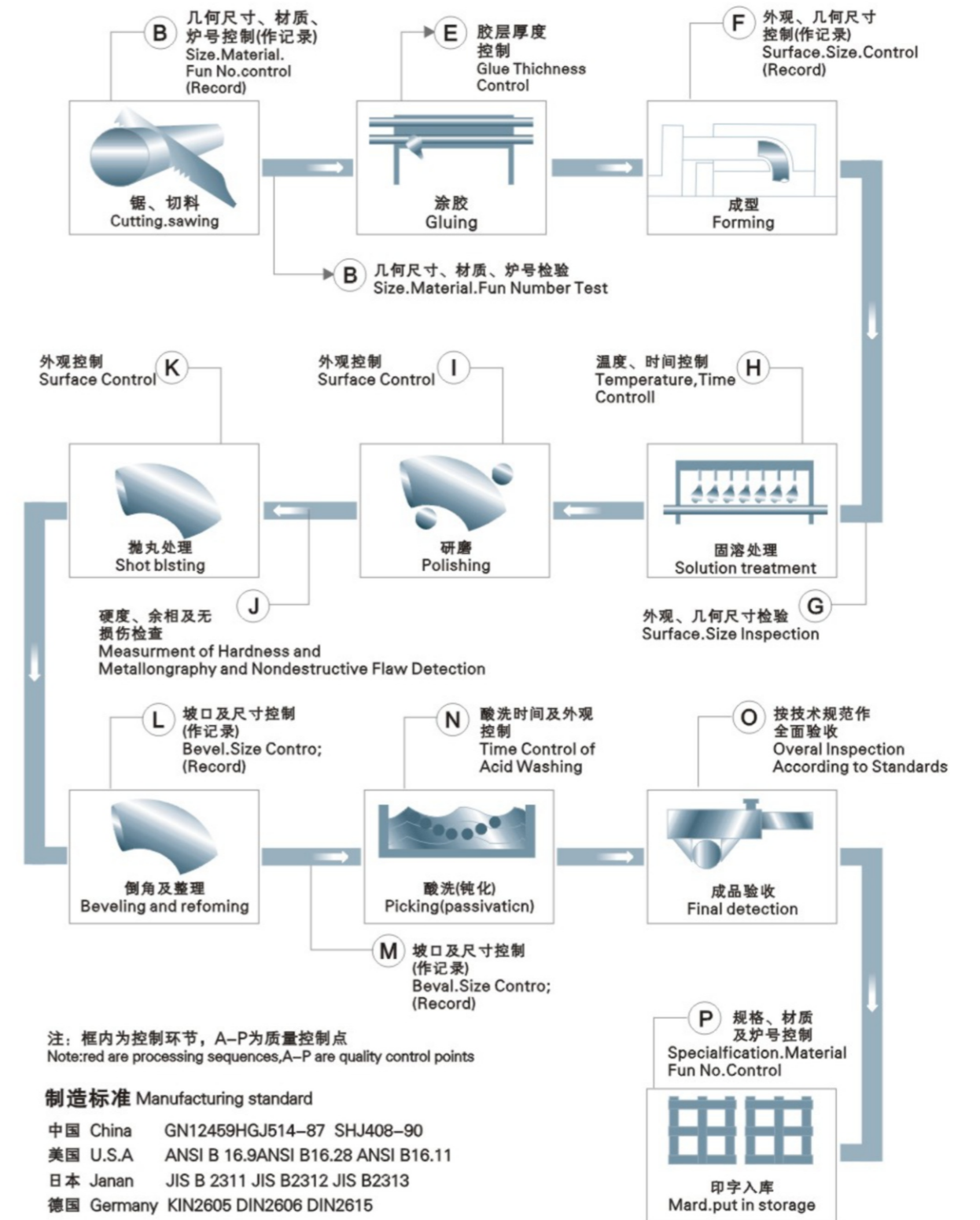


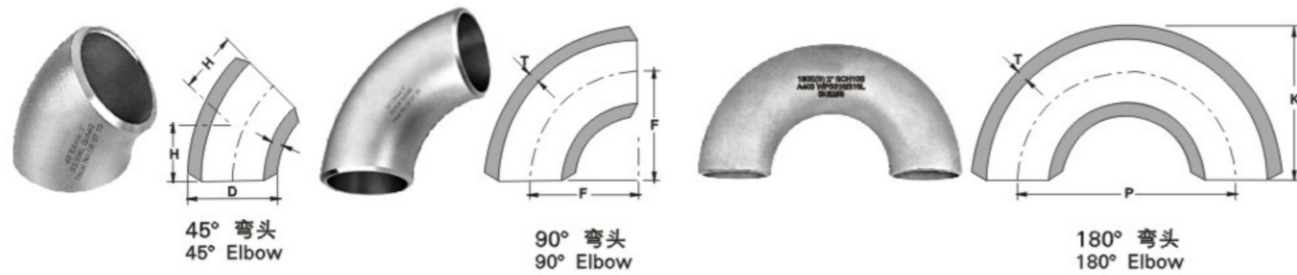
承插钢弯头
Quick Set Tee



管帽
Pipe Cap

Flow Chart 工艺流程图

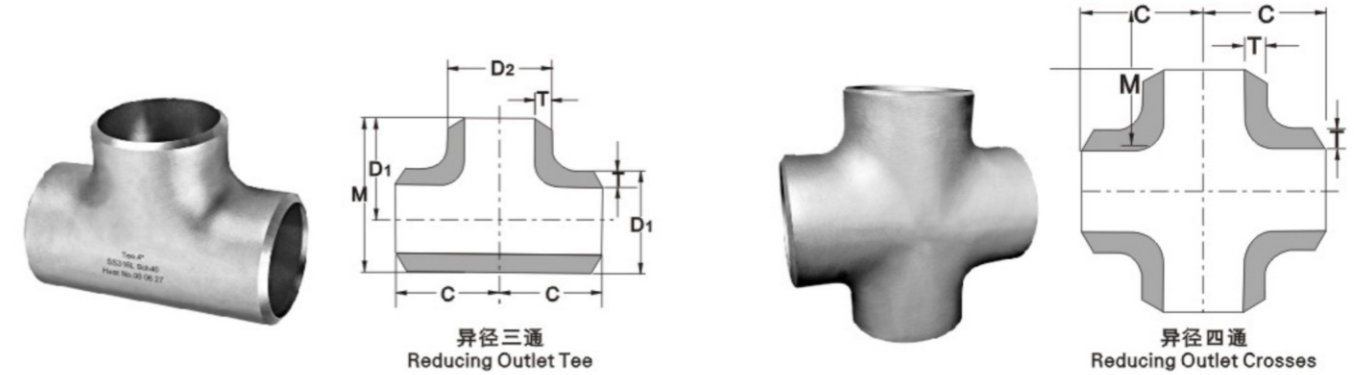




对焊弯头 GB12459、GB/T13401 Butt Welding Elbow

公称通径 Nominal Pipe Size	端部外径 Outside diameter at Bevel	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				
DN	INCH	A系列 Series A	B系列 Series B	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	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	76	25	56	41
32	1.1/4	42.4	38	20	48	95	32	64	52
40	1.1/2	48.3	45	24	57	114	38	76	62
50	2	60.3	57	32	76	152	51	102	81
65	2.1/2	76.1(73)	76	40	95	191	64	127	100
80	3	88.9	89	47	114	229	76	152	121
90	3.1/2	101.6	-	55	133	267	89	178	140
100	4	114.3	108	63	152	305	102	203	159
125	5	139.7	133	79	190	381	127	254	197
150	6	168.3	159	95	229	457	152	305	237
200	8	219.1	219	126	305	610	203	406	313
250	10	273.0	273	158	381	762	254	508	391
300	12	323.9	325	189	457	914	305	610	467
350	14	355.6	377	221	533	1067	356	711	533
400	16	406.4	426	253	610	1219	406	813	610
450	18	457.2	478	284	686	1372	457	914	686
500	20	508.0	529	316	762	1524	508	1016	762
550	22	559	-	347	838	559	-	-	-
600	24	610	630	379	914	610	-	-	-
650	26	660	-	410	991	660	-	-	-
700	28	711	720	442	1067	711	-	-	-
750	30	762	-	473	1143	762	-	-	-
800	32	813	820	505	1219	813	-	-	-
850	34	864	-	537	1295	864	-	-	-
900	36	914	920	568	1372	914	-	-	-
950	38	965	-	600	1448	965	-	-	-
1000	40	1016	1020	631	1524	1016	-	-	-
1050	42	1067	-	663	1600	1067	-	-	-
1100	44	1118	1120	694	1676	1118	-	-	-
1150	46	1168	-	726	1753	1168	-	-	-
1200	48	1220	1220	758	1829	1219	-	-	-

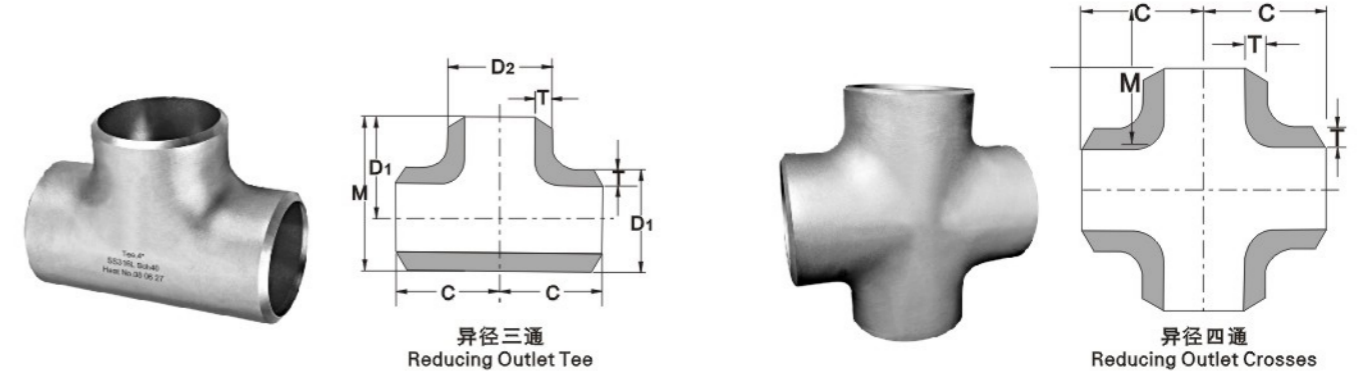
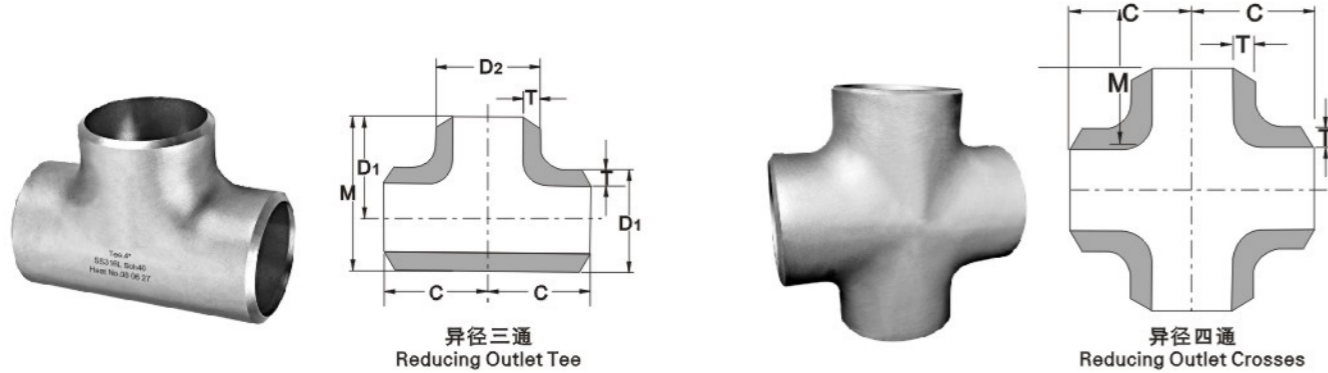
注: 1) 尽可能不采用括号内的数值
2) 优先选用A系列



对焊等径三通、四通 GB12459、GB/T13401 Butt-Welding Equal Tees and Equal Crosses

公称通径 Nominal Pipe Size	端部外径 Outside diameter at Bevel	中心至端面 Center to End		公称通径 Nominal Pipe Size	端部外径 Outside diameter at Bevel	中心至端面 Center to End	
		D				D	
		C	M			C	M
DN	INCH	A系列 Series A	B系列 Series B	DN	INCH	A系列 Series A	B系列 Series B
15	1/2	21.3	18	450	18	457.2	478
20	3/4	26.9	25	500	20	508.0	529
25	1	33.7	32	550	22	559	-
32	1.1/4	42.4	38	600	24	610	630
40	1.1/2	48.3	45	650	26	660	-
50	2	60.3	57	700	28	711	720
65	2.1/2	76.1(73)	76	750	30	762	-
80	3	88.9	89	800	32	813	820
90	3.1/2	101.6	-	850	34	864	-
100	4	114.3	108	900	36	914	920
125	5	139.7	133	950	38	965	-
150	6	168.3	159	1000	40	1016	1020
200	8	219.1	219	1050	42	1067	-
250	10	273.0	273	1100	44	1118	1120
300	12	323.9	325	1150	46	1168	-
350	14	355.6	377	1200	48	1220	1220
400	16	406.4	426				

注: 1) 尽可能不采用括号内的数值 2) 优先选用A系列
Note: 1) does not use in the parenthesis as far as possible the value 2) first selects A series



对焊异径三通、四通 GB12459、GB/T13401 Butt-Welding Reducing Tees and Reducing Crosses

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	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

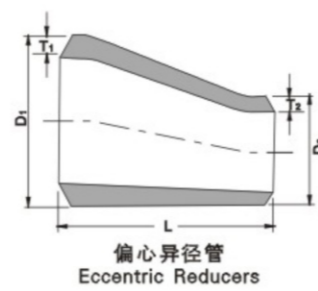
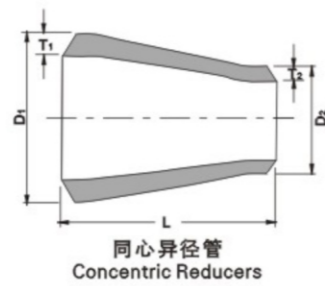
公称通径 Nominal Pipe Size DN	端部外径 Outside diameter at Bevel				中心至端面 Center to End	
	D1		D2		C	M
	A系列 Series A	B系列 Series B	A系列 Series A	B系列 Series B		
100x90	114.3	-	101.6	-	105	102
100x80	114.3	108	88.9	89	105	98
100x65	114.3	108	76.1(73)	76	105	95
100x50	114.3	108	60.3	57	105	89
100x40	114.3	108	48.3	45	105	86
125x100	139.7	133	114.3	108	124	117
125x90	139.7	-	101.6	-	124	114
125x80	139.7	133	88.9	89	124	111
125x65	139.7	133	76.1(73)	76	124	108
125x50	139.7	133	60.3	57	124	105
150x125	168.3	159	139.7	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	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
200x125	273.0	273	139.7	133	216	191
200x100	273.0	273	114.3	108	216	184
300x250	323.9	325	273.0	273	254	241
300x200	323.9	325	219.1	219	254	229
300x150	323.9	325	168.3	159	254	219

对焊异径三通、四通 GB12459、GB/T13401 Butt-Welding Reducing Tees and Reducing Crosses

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		
300x125	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	168.1	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	-	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

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	-	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
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

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Note: 1) does not use in the parenthesis as far as possible the value 2) first selects A series



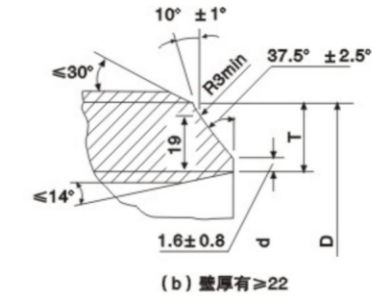
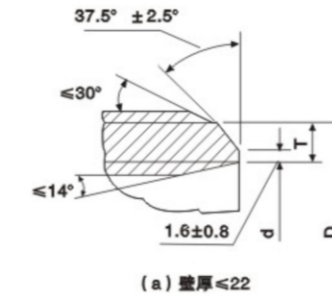
对焊同心、偏心异径管 GB12459、GB/T13401 Butt-Welding Concentric & Eccentric Reducers

公称通径 Nominal Pipe Size DN	端部外径 Outside diameter at Bevel				中心至端面 Center to End 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				中心至端面 Center to End 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	457.5	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

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/T13401



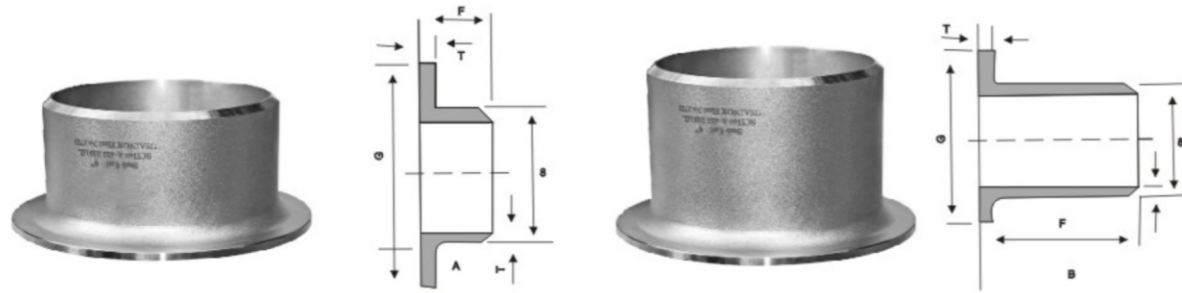
对焊同心、偏心异径管 GB12459、GB/T13401 Butt-Welding Concentric&Eccentric Reducers

公称通径 Nominal Pipe Size DN	端部外径 Outside diameter at Bevel				中心至端面 Center to End 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	-	862	-	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				中心至端面 Center to End 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

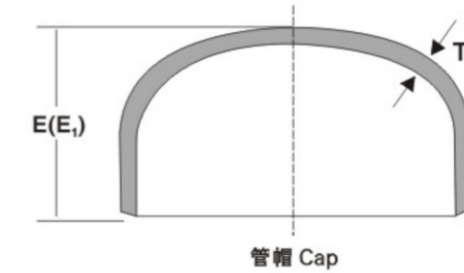
注：1)尽可能不才用括号内的数值。2)优先选用A系列。

Note: 1) the no talent uses in the parenthesis as far as possible the value. 2) first selects A series.



MSS SP-43, ANSI B16.9 Lap Joint Stub End

Nominal Pipe Size		Outside diameter OD	Lenth F		Dia of Lap-G Nominal & Maximum	Radius of Fillet		Approx Weight kg/pcs					
DN	INCH		Mss	ANSI		A Max	B Max	Sch5s Mss ANSI		Sch10s Mss ANSI		Sch40s Mss ANSI	
15	1/2	21.3	50.8	76.2	35.1	3	0.75	0.049	0.067	0.062	0.084	0.079	0.106
20	3/4	26.7	50.8	76.2	42.9	3	0.75	0.064	0.087	0.081	0.109	0.101	0.144
25	1	33.4	50.8	101.6	50.8	3	0.75	0.082	0.144	0.134	0.233	0.160	0.279
32	1.1/4	42.4	50.8	101.6	63.5	5	0.75	0.109	0.188	0.178	0.307	0.225	0.386
40	1.1/2	48.3	50.8	101.6	73.2	6	0.75	0.129	0.219	0.213	0.358	0.279	0.467
50	2	60.3	63.5	152.4	91.9	8	0.75	0.204	0.406	0.338	0.667	0.471	0.924
65	2.1/2	73	63.5	152.4	104.6	8	0.75	0.313	0.626	0.448	0.893	0.740	1.465
80	3	88.9	63.5	152.4	127	10	0.75	0.400	0.781	0.574	1.117	1.01	1.954
90	3.1/2	101.6	76.2	152.4	139.7	10	0.75	0.522	0.896	0.650	1.283	1.38	2.35
100	3.1/2	114.3	76.2	152.4	157.2	11	0.75	0.606	1.024	0.870	1.474	1.68	2.822
125	5	141.3	76.2	203.2	185.7	11	1.5	0.985	2.153	2.21	2.635	2.08	4.957
150	6	168.3	88.9	203.2	215.9	13	1.5	1.34	2.591	1.64	3.174	3.37	6.482
200	8	219.1	101.6	203.2	269.7	13	1.5	1.96	3.409	2.65	4.607	5.67	9.819
250	10	273.1	127	254	323.9	13	1.5	3.57	6.389	4.38	7.843	9.55	17.023
300	12	323.9	152.4	254	381	13	1.5	5.85	8.922	6.74	10.275	13.8	21.075
350	14	355.6	152.4	304.8	412.8	13	1.5	6.55	11.571	7.49	13.912	16.88	
400	16	406.4	152.4	304.8	469.9	13	1.5	7.778	14.216	8.797	16.078		
450	18	457.2	152.4	304.8	533.4	13	1.5	9.009	16.216	10.252	18.453		
500	20	508	152.4	304.8	584.2	13	1.5	11.102	19.984	13.202	23.764		
550	22	559	152.4	304.8	641.4	13	1.5	12.763	22.81	14.779	26.413		
600	24	610	152.4	304.8	692.2	13	1.5	16.132	28.839	18.476	33.028		



对焊管帽 GB12459、GB/T13401 Butt-Welding Caps

公称通径 Nominal Pipe Size DN	端部外径 Outside diameter at Bevel				中心至端面 Center to End 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	
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 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

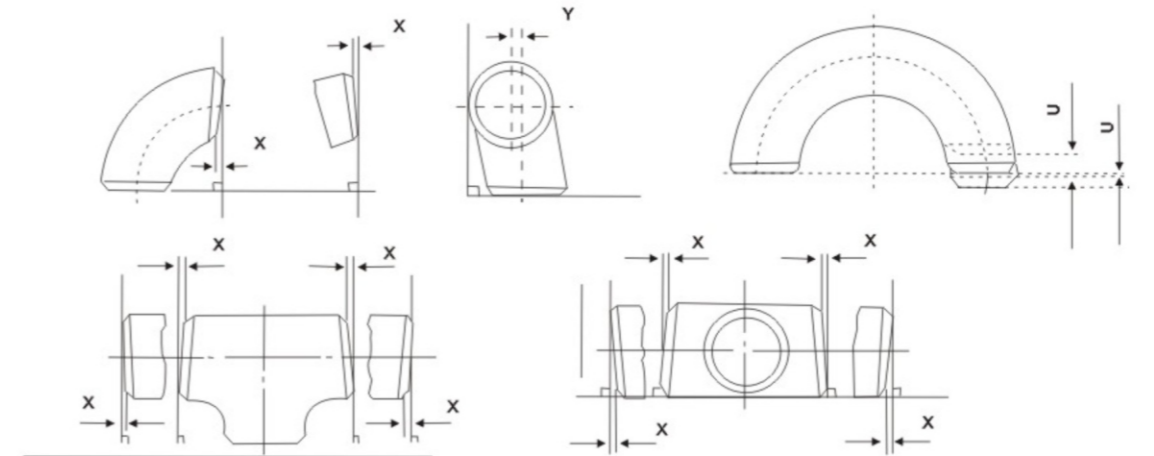
注: 1) DN600的管帽, 当壁厚超过13mm时, 其E值改为305mm
 2) 尽可能不采用括号内的数值
 3) 管帽的全长不大于限制厚度时为E, 超过限制厚度为E1
 Note: 1) DN600 hose cap, when wall thickness surpasses 13mm, its E value changes 305mm
 2) does not use in the parenthesis as far as possible the value
 3) the hose cap span is not bigger than when the limit thickness is E, surpasses the limit thickness is E1

公称直径 in	管外径 mm	ANSIB36.10、B36.19															
		Sch5s	Sch10s	Sch10	Sch20	Sch30	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS	
6	1/8	10.29	-	1.24	-	-	-	1.73	1.73	-	2.41	2.41	-	-	-	-	
8	1/4	13.72	-	1.65	-	-	-	1.73	2.24	-	3.02	3.02	-	-	-	-	
10	3/8	17.14	-	1.65	-	-	-	2.31	2.31	-	3.20	3.20	-	-	-	-	
15	1/2	21.34	1.65	2.11	-	2.1	-	2.77	2.77	-	3.73	3.73	-	-	4.78	7.47	
20	3/4	26.67	1.65	2.11	-	2.5	-	2.87	2.87	-	3.91	3.91	-	-	5.56	7.82	
25	1	33.40	1.65	2.77	-	3	-	3.38	3.38	-	4.55	4.55	-	-	6.35	9.09	
32	1 1/4	42.16	1.65	2.77	-	3	-	3.56	3.56	-	4.85	4.85	-	-	6.35	9.70	
40	1 1/2	48.26	1.65	2.77	-	3	-	3.68	3.68	-	5.08	5.08	-	-	7.14	10.16	
50	2	60.32	1.65	2.77	-	3	-	3.91	3.91	5	5.54	5.54	-	-	8.74	11.07	
65	2 1/2	73.02	2.11	3.05	-	4	-	5.16	5.16	6	7.01	7.01	-	-	9.53	14.02	
80	3	88.90	2.11	3.05	-	4.5	-	5.49	5.49	6.5	7.62	7.62	-	-	11.12	15.24	
90	3 1/2	101.60	2.11	3.05	-	4	-	5.74	5.74	6.5	8.08	8.08	-	-	-	-	
100	4	114.30	2.11	3.05	-	4.5	-	6.02	6.02	7	8.56	8.56	-	11.12	13.49	17.12	
125	5	141.30	2.77	3.40	-	4.5	-	6.55	6.55	5.8	9.53	9.53	-	12.70	15.88	19.05	
150	6	168.28	2.77	3.40	-	5	-	7.11	7.11	9.5	10.97	10.97	-	14.27	18.26	21.94	
200	8	219.08	2.77	3.76	-	6.35	7.04	8.18	8.18	10.31	12.70	12.70	15.09	18.26	20.62	23.01	22.22
250	10	273.05	3.40	4.19	-	6.35	7.80	9.27	9.27	12.70	12.70	15.09	18.26	21.44	25.40	28.58	25.40
300	12	323.85	3.96	4.57	-	6.35	8.38	9.52	10.31	14.27	12.70	17.48	21.44	25.40	28.58	33.32	25.40
350	14	355.60	3.96	4.78	-	7.92	9.52	9.52	11.13	15.09	12.70	19.05	23.83	27.79	31.75	35.71	-
400	16	406.40	4.19	4.78	-	7.92	9.52	9.52	12.70	16.66	12.70	21.44	26.19	30.96	36.52	40.49	-
450	18	457.20	4.78	4.78	-	7.92	11.12	9.52	14.27	19.05	12.70	23.82	29.36	34.92	39.47	45.24	-
500	20	508.00	4.78	5.54	-	9.52	12.70	9.52	15.09	20.62	12.70	26.19	32.54	38.10	44.45	50.01	-
550	22	558.8	4.78	5.54	-	9.52	14.27	9.52	16.17	22.22	12.70	28.58	34.92	41.28	47.62	53.98	-
600	24	609.6	5.54	6.35	-	9.52	-	9.52	17.48	24.61	12.70	30.96	38.89	46.02	52.37	59.54	-
650	26	660.4	-	6.35	7.92	12.70	15.88	9.52	-	-	12.70	-	-	-	-	-	-
700	28	711.2	-	6.35	7.92	12.70	15.88	9.52	-	-	12.70	-	-	-	-	-	-
750	30	762.0	6.35	*7.92	7.92	12.70	15.88	9.52	-	-	12.70	-	-	-	-	-	-
800	32	812.0	-	*7.92	7.92	12.70	15.88	9.52	17.48	-	12.70	-	-	-	-	-	-
850	34	863.6	-	*7.92	7.92	12.70	-	9.52	17.48	-	12.70	-	-	-	-	-	-
900	36	914.4	-	*7.92	7.92	12.70	-	9.52	19.05	-	12.70	-	-	-	-	-	-
950	38	965.2	-	*7.92	7.92	-	-	9.52	-	-	12.70	-	-	-	-	-	-
1000	40	1016.0	-	*7.92	7.92	-	-	9.52	-	-	12.70	-	-	-	-	-	-
1050	42	1066.8	-	*7.92	7.92	-	-	9.52	-	-	12.70	-	-	-	-	-	-
1100	44	1117.6	-	*7.92	7.92	-	-	9.52	-	-	12.70	-	-	-	-	-	-
1150	46	1168.4	-	-	7.92	-	-	*9.52	-	-	12.70	-	-	-	-	-	-
1200	48	1219.2	-	-	-	-	-	*9.52	-	-	12.70	-	-	-	-	-	-
1300	52	1320.8	-	-	-	-	-	*9.52	-	-	12.70	-	-	-	-	-	-
1350	54	1371.6	-	-	-	-	-	*9.52	-	-	12.70	-	-	-	-	-	-
1400	56	1422.4	-	-	-	-	-	*9.52	-	-	12.70	-	-	-	-	-	-
1500	60	1524.0	-	-	-	-	-	*9.52	-	-	12.70	-	-	-	-	-	-
1600	64	1625.6	-	-	-	-	-	*9.52	-	-	12.70	-	-	-	-	-	-
1700	68	1727.2	-	-	-	-	-	*9.52	-	-	12.70	-	-	-	-	-	-
1800	72	1828.8	-	-	-	-	-	*9.52	-	-	12.70	-	-	-	-	-	-
1900	76	1930.4	-	-	-	-	-	*9.52	-	-	12.70	-	-	-	-	-	-
2000	80	2032.0	-	-	-	-	-	*9.52	-	-	12.70	-	-	-	-	-	-

项目 Project	管件种类 Fitting type	公称通径 Nominal Pipe Size DN				
		15-65	80-100	125-200	250-450	500
极限偏差 Limit deviation						
端部外径 D1、D2、D3 Nose outer diameter D1, D2, D3	所有管件 All fittings	+1.6 -0.8	±1.6	+2.4 -1.6	+4.0 -3.2	+6.4 -4.8
端部内径 d1) Nose inside diameter d1)		±8	±1.6		±3.2	±4.8
壁厚 T、T1、T2 Wall thickness T, T1, T2		不小于公称壁厚的87.5% not smaller than wall thickness 87.5%				
中心至端面 B、A Center to end surface B, A	45° 弯头、90° 弯头 45° Bend, 90° Elbow	±2		±3		
中心至中心 P Center to central P	180° 弯头 180° Elbow	±7		±10		
背面至端面 K Back to end surface K		±7				
长度 L Length L	异径管 Tapered Pipe	±2		±3		
中心至端面 C、M Center to end surface C, M	三通、四通 Tees, Crosses	±2		±3		
全长 E、E1 Span E, E1	管帽 Cap	±4		±7		

注：除非用户有特殊要求，应优先保证端部外径和公称壁厚的极限偏差
Note: If the user has special request, we will first guarantee the nose outer diameter and the nominal wall thickness limit deviation

GB12549中对焊管件的开位公差 Angularity Tolerances of Butt-Welding Fitting



项目 Project	管件种类 Fitting type	公称通径 Nominal Pipe Size DN				
		15-100	125-200	250-300	350-400	450-500
公差 Common difference						
X	弯头、三通、异径管、四通 Elbow, Tee, Reducer, Cross	1	2	3		4
Y	弯头、三通、四通 Elbow, Tee, Cross	2	4	5	7	10
U	180° 弯头 180° Elbow	1		2		

项目 Project	管件种类 Fitting type	工程通径范围 Project latus rectum scope				
		15-65	80-100	125-200	250-450	500
		极限偏差 Limit deviation				
端部外径 Nose outer diameter	所有管件 All fittings	±1.6 -0.8	±1.6	±2.4 -1.6	±4.0 -3.2	±6.4 -4.8
端部内径① Nose outer diameter		±3.2 ±4.6				
壁厚 Wall thickness		不小于公称壁厚的87.5% not smaller than wall thickness 87.5%				
中心主端部尺寸H, F Central host nose size H, F	45°弯头、90°弯头 45° Elbow, 90° Elbow	±2			±3	
中心至中心尺寸P Center to central size P	180°弯头 180° Elbow	±7			±10	
背面至端部尺寸K Back to nose size K	异径接头 Reducer	±2			±2	
长度L Length L		±3			±3	
中心至端面尺寸C, M Center to end surface size C, M	三通 Tee	±4			±7	
背面至端面尺寸E, E1 Back to end surface size E, E1	管帽 cap					

项目 Project	管件种类 Fitting type	公称通径范围 Norminal Pipe Size DN				
		15-100	125-200	250-300	350-400	450-500
		公差 Common difference				
X	弯头、三通、异径管、四通 Elbow, Tee, Reducer, Cross	1	2	3	4	
Y	弯头、三通、四通 Elbow, Tee, Cross	2	4	5	7	10
U	180°弯头 180° Elbow	1		2		

注：①除非用户有特殊要求，应优先保证端部外径和公称壁厚的极限偏差。
Note: ①If the user has special request, we will first guarantee the nose outer diameter and the nominal wall thickness limit deviation.

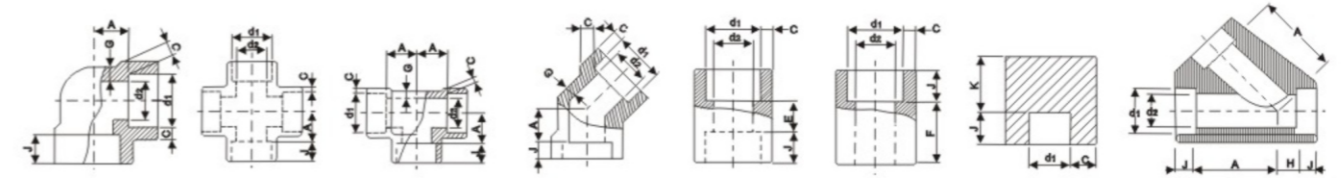
对焊管件形位公差表 GB/T13401-92 Butt welding fitting shape position table of limits

项目 Project	管件种类 Fitting type	公称通径范围 Norminal Pipe Size DN				
		150-200	250-450	500-600	650-750	800-1200
		极限偏差 Limit deviation				
端部外径D Nose outer diameter D	所有管件 All fittings	±2.4 -1.6	+4.0 -3.2	±6.4 -4.8		
端部内径② Nose outer diameter		±1.6	±3.2	±4.8		
壁厚 Wall thickness		不小于公称壁厚的87.5% not smaller than wall thickness 87.5%				
中心至端部H, F Center to nose H, F	45°弯头、90°弯头 45° Elbow, 90° Elbow	-	±3			±5
长度L Length L	异径接头 Reducer	-	±3			±5
中心至端面C, M Center to end surface C, M	三通、四通 Tee, Cross	-	±3			±5
背面至端面E Back to end surface E	管帽 cap	-	±7			±10
端部最大最小外径差 Outside the nose is most greatly smallest the difference of longside	所有管件 All Fittings	不大于0.01DN, 且大于S not bigger than 0.01DN, also is bigger than S				

项目 Project	管件种类 Fitting type	公称通径范围 Norminal Pipe Size DN				
		350-400	400-600	650-750	800-1050	450-500
		公差 Common difference				
端面偏摆X The end surface beats X	弯头、异径管接头、三通 Elbow, Reducer, Tee	3	4	5		
中心偏摆Y The center beats Y	弯头、三通、四通 Elbow, Tee, Cross	7	10	13	19	

注：①除非用户有特殊要求，应优先保证端部外径和公称壁厚的极限偏差。
②对于异径管件，其尺寸偏差是按大径端的通径划给定的。
Note: ①If the user has special request, we will first guarantee the nose outer diameter and the nominal wall thickness limit deviation.
②Regarding the reducing pipe, its deviation size is according to the great diameter end latus.

承插管件 SOCKET WELDING FITTINGS

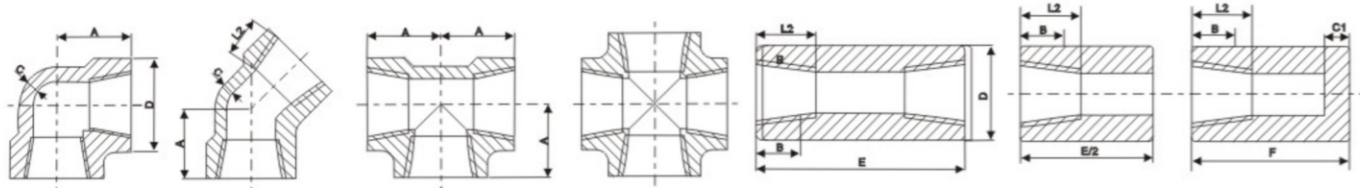


公称通径 Nom. Pipe Size	承插孔深度 Depth of Socket Min	中心至承插孔底 Center To Bottom of Socket						结构长度 Laying Length		管帽顶厚 End Wall Thickness Class Designation Min K			中心至承插孔底 Center To Bottom of Socket 45°斜三通 Lateral			
		90°弯头、三通、四通 90° Elbows, Tees, and Crosses Class Designation A			45°弯头 45° Elbows Class Designation A			双承口管箍 Couplings E	单承口管箍 Half Couplings F	3000 sch80	6000 sch160	9000	3000 sch80	6000 sch160	3000 sch80	6000 sch160
DN	NPS	J	3000	6000	9000	3000	6000	9000	E	F	3000	6000	9000	A	H	
6	1/8	10	12 10	12 10		9 7	9 7		8 5	17 15	5.0	6.5	-	-	-	
8	1/4	10	12 10	17 13		9 7	9 7		8 5	17 15	5.0	6.5	-	32	-	
10	3/8	10	15 12	17 14		9 6	13 10		9 6	19 16	5.0	6.5	-	37	-	
15	1/2	10	17 14	21 18	27 24	13 10	14 11	17 14	13 6	24 21	6.5	8.0	11.0	41	51	
20	3/4	13	21 18	24 21	30 27	14 11	16 13	21 17	13 6	25 22	6.5	8.0	12.5	51	60	
20	1	13	24 20	29 25	34 30	16 12	19 15	23 19	17 9	31 27	9.5	11.0	14.0	60	71	
32	1 1/4	13	29 25	34 30	37 33	19 15	23 19	24 20	17 9	32 28	9.5	11.0	14.0	71	81	
40	1 1/2	13	34 30	40 36	40 36	23 19	27 23	28 23	17 9	34 30	11.0	12.5	16.0	81	98	
50	2	16	40 36	43 39	56 52	27 23	31 27	31 26	23 15	43 39	12.5	16.0	19.0	98	120	
65	2 1/2	16	44 39					31 27	24 14	45 40	16.0	19.0		-	-	
80	3	16	60 55					34 29	24 14	47 42	19.0	22.0		-	-	
100	4	19	69 64					44 39	24 14	50 45	22.0	28.5		-	-	

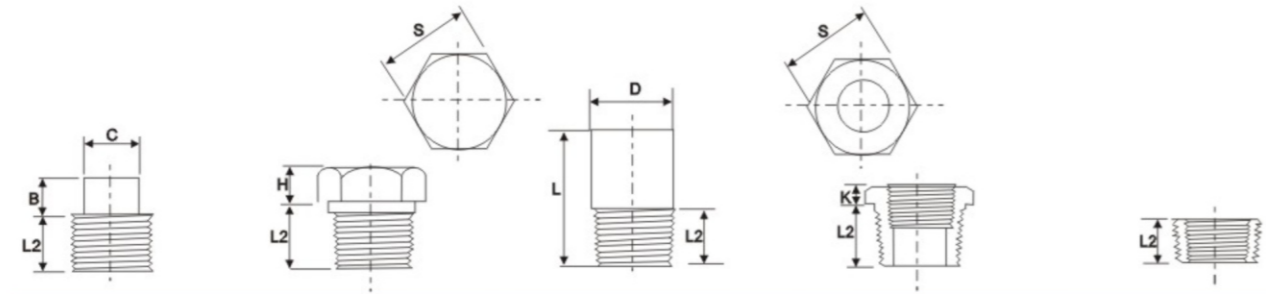
备注：
(1)承插壁厚外圈平均值不低于所列值。最小值仅限于局部区域。
(2)每种规格的下值分别代表最大、最小尺寸。

NOTE:
(1)Average of Socket Wall Thickness around periphery shall be no less than listed values. The minimum values are permitted in localized areas.
(2)Upper and lower values for each size are the respective maximum and minimum dimensions.
上述尺寸符合GB/T 14383、SH3410、HG/T21634、JIS B 2316、ASME 16.11、BS3799标准。Above dimensions acc. to GB/T 14383、HG/T21634、JIS B 2316、ASME 16.11、BS3799.

螺纹管件 THREADED FITTING

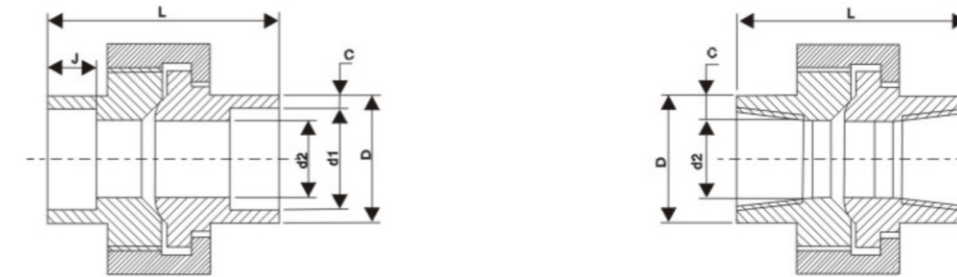


90° 弯头、三通、四通 90° Elbows, Tees and Crosses												双接口管箍、单接口管箍、管帽 Half Coupling, Coupling, Cup										
公称通径 Nominal Pipe Size		中心至端面 Center to End 90° 弯头、三通、四通 90° Elbows, Tees and Crosses						外径 Outside Diameter			壁厚 Wall Thickness			全长 End to End		外径 Outside Diameter		管帽顶厚 End wall Thickness		螺纹长度 Length of Thread		
DN	NPS	2000		3000		6000		2000	3000	6000	2000	3000	6000	E	F	3000	6000	3000	6000	B	L2	
6	1/8	21	21	25	17	17	19	22	22	25	3.0	3.0	6.5	32	19	-	16	22	5.0	-	6.5	6.5
8	1/4	21	25	29	17	19	22	22	25	33	3.0	3.5	6.5	35	25	27	19	25	5.0	6.5	8.0	10.0
10	3/8	25	29	33	19	22	25	25	33	38	3.0	3.5	7.0	38	25	27	22	32	5.0	6.5	9.0	10.5
15	1/2	29	33	38	22	25	29	33	38	46	3.0	4.0	8.0	48	32	33	29	38	6.5	8.0	11.0	13.5
20	3/4	33	38	44	25	29	33	38	43	56	3.0	4.5	8.5	51	37	38	35	44	6.5	8.0	12.5	14.0
25	1	38	44	51	29	33	35	46	56	62	3.5	5.0	10.0	60	41	43	44	57	9.5	11.0	14.5	17.5
32	1 1/4	44	51	60	33	35	43	56	62	75	4.0	5.5	10.5	67	44	46	57	64	9.5	11.0	17.0	18.0
40	1 1/2	51	60	64	35	43	44	62	75	84	4.0	5.5	11.0	79	44	48	64	76	11.0	12.5	18.0	18.5
50	2	60	64	83	43	45	52	75	84	102	4.5	7.0	12.0	86	48	51	76	92	12.5	16.0	19.0	19.0
65	2 1/2	76	83	95	52	52	64	92	102	121	5.5	7.5	15.5	92	60	64	92	108	16.0	19.0	23.5	29.0
80	3	86	96	106	64	64	79	110	121	146	6.0	9.0	16.5	108	65	68	108	127	19.0	22.0	26.0	30.5
100	4	106	114	114	79	79	79	146	152	152	6.5	11.0	18.5	121	68	75	140	159	22.0	28.5	27.5	33.0



公称通径 Nominal Pipe Size		螺纹长度 Length Min	方头管塞 Square Head Plugs		圆头管塞 Round Head Plugs		六角头管塞和接头 Hex Head Plugs and Bushings		
DN	NPS	L2	方头高度 Height of Square Min	平面宽度 Width of Flats Min	圆头直径 Diameter of Round Head Nominal	全长 Length Min	平面宽度 Width of Flats Nominal	六角头高度 Hex Height Min	
			B	C	D	L	S	K	H
6	1/8	9.5	6	7.0	10	35	11.0	-	6
8	1/4	11.0	6	9.5	13	41	16.0	3	6
10	3/8	12.5	8	11.0	17	41	17.5	4	8
15	1/2	14.5	10	14.5	21	44	22.0	5	8
20	3/4	16.0	11	16.0	27	44	27.0	6	10
25	1	19.0	13	20.5	33	51	35.0	6	10
32	1 1/4	20.5	14	24.5	43	51	44.5	7	14
40	1 1/2	20.5	16	28.5	48	51	51.0	8	16
50	2	22.0	17	33.5	60	64	63.5	9	17
65	2 1/2	27.0	19	38.0	73	70	76.0	10	19
80	3	28.5	21	43.0	89	70	89.0	10	21
100	4	32.0	25	63.5	114	76	117.5	13	25

上述尺寸符合GB/T14626、ANSI B 16.11、BS3799标准。
Above dimensions acc. to GB/T14626、ANSI B 16.11、BS3799.



承插式 螺纹式活接头 SOCKET AND THREADED UNIONS

公称通径 Nominal Pipe Size		外径 Outside Diameter D		壁厚 Wall Thickness C		承插孔径 Socket Bore Min d1	流通孔径 Water Way Bore Min d2	承插孔深度 Depth of Socket J	公称装配长度 Length Assem Nominal
DN	NPS	承插焊 Socket	螺纹 Threaded	承插焊 Socket	螺纹 Threaded	承插焊 Socket	承插焊、螺纹 Socket & Threaded	承插焊 Socket	承插焊、螺纹 Socket & Threaded
6	1/8	21.8	14.7	3.2	2.5	10.65	6.43	10	41.4
8	1/4	21.8	19.0	3.3	3.1	14.10	9.45	10	41.4
10	3/8	25.9	22.9	3.5	3.2	17.55	13.51	10	46.0
15	1/2	31.2	27.7	4.1	3.8	21.70	17.07	10	49.0
20	3/4	37.1	33.5	4.3	4.0	27.05	21.39	13	56.9
25	1	45.5	41.4	5.0	4.6	33.80	27.74	13	62.0
32	1 1/4	54.9	50.5	5.3	4.9	42.55	35.36	13	71.1
40	1 1/2	61.5	57.2	5.6	5.1	48.65	41.20	13	76.5
50	2	75.2	70.1	6.1	5.6	61.10	52.12	16	86.1
65	2 1/2	91.7	85.3	7.7	7.1	73.80	64.31	16	102.4
80	3	109.2	102.4	8.4	7.7	89.80	77.27	16	109.0

上述尺寸符合MSS SP-83、BS3799标准。 Above dimensions acc. to MSS SP-83、BS3799.

Technology Parameter 技术参数

	化学成分(%) (Chemical Composition)											机械性能(Mechanical Properties)				备注 Note
	C	Si	Mn	P	S	Ni	Cr	Mo	C	6b (MPa)	6s (MPa)	65 (%)	Φ (%)	硬度 Degree hardness HB		
0Cr18Ni9	0.04-0.10	≤1.00	≤2.00	≤0.035	≤0.030	8.00-11.00	17.00-19.00	-	-	-	≤520	≤205	≤35	-	-	
0Cr18Ni10Ti	≤0.08	≤1.00	≤2.00	≤0.035	≤0.030	9.00-11.00	17.00-19.00	-	Ti:5xC%-0.8	≤539	≤196	≤40	≤55	-		
1Cr18Ni9Ti	≤0.08	≤1.00	≤2.00	≤0.035	≤0.030	8.00-11.00	17.00-19.00	-	Ti:5xC%-0.7	≤539	≤196	≤40	≤55	140-170		
00Cr18Ni10	≤0.030	≤1.00	≤2.00	≤0.035	≤0.030	8.00-11.00	18.00-19.00	-	-	≤480	≤176	≤40	≤60	-		
0Cr18Ni12M ₂	≤0.08	≤1.00	≤2.00	≤0.035	≤0.030	11.00-14.00	16.00-19.00	1.80-2.50	0.30-0.60	≤539	≤216	≤40	≤60	-		
00Cr17Ni14M ₂	≤0.03	≤1.00	≤2.00	≤0.035	≤0.030	12.00-16.00	16.00-18.00	1.80-2.50	-	≤480	≤176	≤40	≤60	-		
WP304	0.08-0.15	0.75-1.00	2.00	0.040	0.030	8.00-11.00	18.00-20.00	-	-	517	207	35	-	-		
WP304H	0.04-0.10	0.75-1.00	2.00	0.040	0.030	8.00-11.00	18.00-20.00	-	-	517	207	35	-	-		
WP304L	0.035	0.75	2.00	0.040	0.030	8.00-13.00	18.00-20.00	-	-	448	172	35	-	-		
WP316	0.08	0.75-1.00	2.00	0.040	0.030	11.00-14.00	16.00-18.00	2.00-3.00	-	517	207	35	-	-		
WP316H	0.04-0.10	0.75-1.00	2.00	0.040	0.030	11.00-14.00	16.00-18.00	2.00-3.00	-	517	207	35	-	-		
WP316L	0.035	0.75-1.00	2.00	0.040	0.030	10.00-15.00	16.00-18.00	2.00-3.00	-	483	172	35	-	-		
WP316	0.08	0.75-1.00	2.00	0.040	0.030	9.00-13.00	17.00-20.00	-	Ti:5xC%-0.60	517	207	35	-	-		
SUS304TP	≤0.08	≤1.00	≤2.00	≤0.040	≤0.030	8.00-11.00	18.00-20.00	-	-	519	206	35	-	-		
SUS304HTP	0.04-0.10	≤0.75	≤2.00	≤0.040	≤0.030	8.00-11.00	18.00-20.00	-	-	519	206	35	-	-		
SUS304LTP	≤0.030	≤1.00	≤2.00	≤0.040	≤0.030	9.00-13.00	18.00-20.00	-	-	480	176	35	-	-		
SUS316TP	≤0.08	≤1.00	≤2.00	≤0.040	≤0.030	10.00-14.00	16.00-18.00	2.00-3.00	-	519	206	35	-	-		
SUS316HTP	0.04-0.10	≤0.75	≤2.00	≤0.030	≤0.030	11.00-14.00	16.00-18.00	2.00-3.00	-	519	206	35	-	-		
SUS316TLP	≤0.030	≤1.00	≤2.00	≤0.040	≤0.030	12.00-16.00	16.00-18.00	2.00-3.00	-	480	176	35	-	-		
SUS321TP	≤0.08	≤1.00	≤2.00	≤0.040	≤0.030	9.00-13.00	17.00-19.00	-	Ti:5xC%	519	206	35	-	-		
SHS321HTP	0.04-0.10	≤0.75	≤2.00	≤0.030	≤0.030	9.00-13.00	17.00-20.00	-	Ti:4xC%-0.6	519	206	35	-	-		
SUS309STP	≤0.15	≤1.00	≤2.00	≤0.040	≤0.030	12.00-15.00	22.00-24.00	-	-	519	206	35	-	-		
SUS310STP	≤0.15	≤1.50	≤2.00	≤0.040	≤0.030	19.00-22.00	24.00-26.00	-	-	519	206	35	-	-		
SUS347TP	≤0.18	≤1.00	≤2.00	≤0.040	≤0.030	9.00-13.00	17.00-19.00	-	Nb+Ta:≥10xC%	519	206	35	-	-		

各国不锈钢 标准牌号对照表 STAINLESS STEEL STANDARDS OF DIFFERENT COUNTRIES	中国 China	日本 Japan JIS	国际标准 International Standards ISO683/13 ISO683/16	美国 USA ANSI ASTM	美国 U.K Bs970 part4 Bs1449 part2	德国 Germany DIN 17440 DIN 17224	法国 France NFA35-572 NFA35-576-582 NFA35-584
	0Cr19Ni9	SUS304	11	304 S30400	304S15	X5CrNi189	Z6CN18.09
	00Cr19Ni11	SUS304L	10	304L S30403	304S12	X2CrNi189	Z2CN18.09
	0Cr17Ni12M ₂	SUS316	20.02a	316 S31600	304S16	X5CrNiMo1810	Z6CND17.12
	00Cr17Ni14M ₂	SUS316L	19.191	316L S31603	304S12	X2CrNiMo1810	Z6CND17.12
	0Cr18Ni11Ti	SUS321	15	321 S32100	321S12.321S20	X10CrNi189	Z6CN18.10
	0Cr17Ni14M ₂ Ti	SUS316Ti	-	316Ti	-	X6CrNiMoTi17122	-



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