



浙江嘉林管阀有限公司
ZHEJIANG JIALIN PIPE VALVE CO.,LTD

品质成就未来

Quality of future success

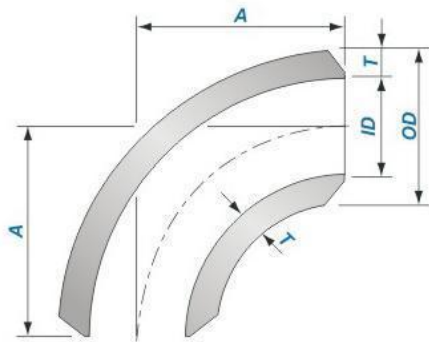


Production and testing equipment

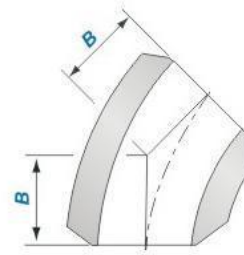
生产及检测设备



■ BUTT-WELDING ELBOWS



对焊90°长半径/短半径弯头
BW 90° LR/SR Elbow



对焊45°长半径弯头
BW 45° LR Elbow

GB/T 12459、GB/T 13401、ASME B16.9

公称尺寸 Nominal Size		端部外径 Outside Diameter at Bevel	中心至端面 Center to End			
DN	NPS		90° Elbows		45° Elbows	
		A		B		
		OD	长半径 LR	短半径 SR	长半径 LR	
15	1/2	21.3	38	-	-	16
20	3/4	26.7	38	-	-	19
25	1	33.4	38	25	-	22
32	1 1/4	42.2	48	32	-	25
40	1 1/2	48.3	57	38	-	29
50	2	60.3	76	51	-	35
65	2 1/2	73.0	95	64	-	44
80	3	88.9	114	76	-	51
90	3 1/2	101.6	133	89	-	57
100	4	114.3	152	102	-	64
125	5	141.3	190	127	-	79
150	6	168.3	229	152	-	95
200	8	219.1	305	203	-	127
250	10	273.0	381	254	-	159
300	12	323.8	457	305	-	190
350	14	355.6	533	356	-	222
400	16	406.4	610	406	-	254
450	18	457.0	686	457	-	286
500	20	508.0	762	508	-	318
550	22	559.0	838	559	-	343
600	24	610.0	914	610	-	381
650	26	660.0	991	660	-	406
700	28	711.0	1067	711	-	438
750	30	762.0	1143	762	-	470
800	32	813.0	1219	813	-	502
850	34	864.0	1295	864	-	533
900	36	914.0	1372	914	-	565
950	38	965.0	1448	965	-	600
1000	40	1016.0	1524	1016	-	632
1050	42	1067.0	1600	1067	-	660
1100	44	1118.0	1676	1118	-	695
1150	46	1168.0	1753	1168	-	727
1200	48	1219.0	1829	1219	-	759
1300	52	1321.0	1981	1321	-	821
1400	56	1422.0	2134	1422	-	883
1500	60	1524.0	2286	1524	-	947
1600	64	1626.0	2438	1626	-	1010
1700	68	1727.0	2591	1727	-	1073
1800	72	1829.0	2743	1829	-	1137
1900	76	1930.0	2896	1930	-	1199
2000	80	2032.0	3048	2032	-	1263

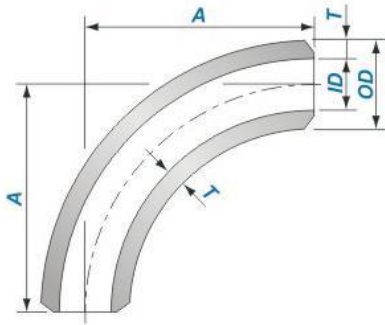
注释:

- 1) 除上述标准外,还可按 GB/T 10752、SH 3408、SH 3409、HG/T 21635、HG/T 21631、SY/T 0510、DL/T 695、EN 10253等标准制造。
- 2) 更大规格的弯头, 可根据采购方与制造商协商一致的尺寸制造。

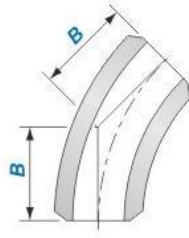
Notes:

- 1) Besides these, GB/T 10752、SH 3408、SH 3409、HG/T 21635、HG/T 21631、SY/T 0510、DL/T 695、EN 10253 etc. are also applied.
- 2) The elbow with NPS over 80 shall be made subject to the sizes agreed by purchaser and manufacturer.

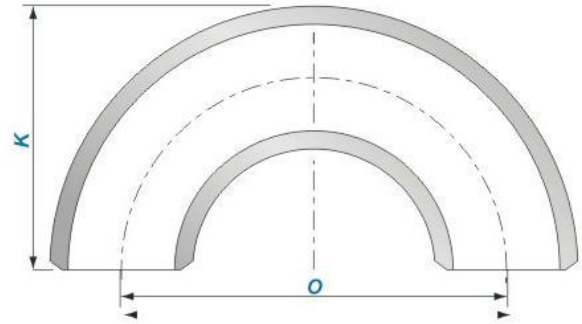
■ BUTT-WELDING ELBOWS



对焊90° 3D弯头
BW 90° 3D Elbow



对焊45° 3D弯头
BW 45° 3D Elbow

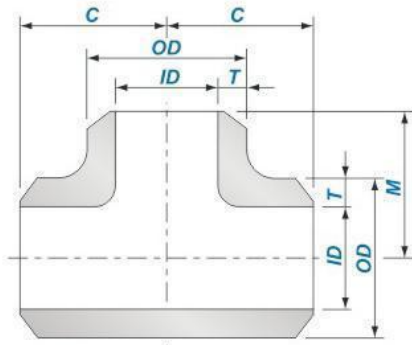


对焊180° 长半径/短半径弯头
BW 180° LR/SR Return

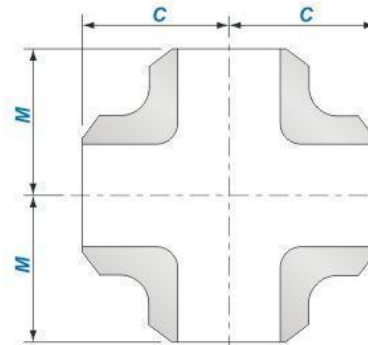
GB/T 12459、GB/T 13401、ASME B16.9

公称尺寸 Nominal 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 Face	
DN	NPS		90° Elbows	45° Elbows	180° Returns			
		OD	A	B	O		K	
			3D	3D	长半径 LR	短半径 SR	长半径 LR	短半径 SR
15	1/2	21.3	-	-	76	-	48	-
20	3/4	26.7	57	24	76	-	51	-
25	1	33.4	76	31	76	51	56	41
32	1 1/4	42.2	95	39	95	64	70	52
40	1 1/2	48.3	114	47	114	76	83	62
50	2	60.3	152	63	152	102	106	81
65	2 1/2	73.0	190	79	190	127	132	100
80	3	88.9	229	95	229	152	159	121
90	3 1/2	101.6	267	111	267	178	184	140
100	4	114.3	305	127	305	203	210	159
125	5	141.3	381	157	381	254	262	197
150	6	168.3	457	189	457	305	313	237
200	8	219.1	610	252	610	406	414	313
250	10	273.0	762	316	762	508	518	391
300	12	323.8	914	378	914	609	619	467
350	14	355.6	1067	441	1067	711	711	533
400	16	406.4	1219	505	1219	813	813	610
450	18	457.0	1372	568	1372	914	914	686
500	20	508.0	1524	632	1524	1016	1016	762
550	22	559.0	1676	694	1676	1118	1118	838
600	24	610.0	1829	757	1829	1219	1219	914
650	26	660.0	1981	821	-	-	-	-
700	28	711.0	2134	883	-	-	-	-
750	30	762.0	2286	964	-	-	-	-
800	32	813.0	2438	1010	-	-	-	-
850	34	864.0	2591	1073	-	-	-	-
900	36	914.0	2743	1135	-	-	-	-
950	38	965.0	2896	1200	-	-	-	-
1000	40	1016.0	3048	1264	-	-	-	-
1050	42	1067.0	3200	1326	-	-	-	-
1100	44	1118.0	3353	1389	-	-	-	-
1150	46	1168.0	3505	1453	-	-	-	-
1200	48	1219.0	3658	1516	-	-	-	-

■ BUTT-WELDING ELBOWS



对焊等径三通
BW Straight Tee

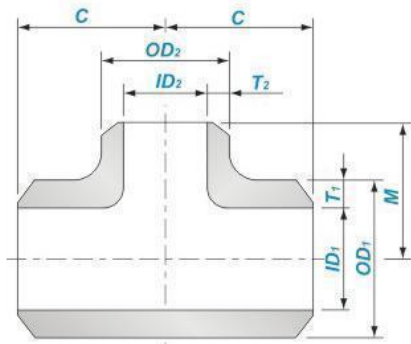


对焊等径四通
BW Straight Cross

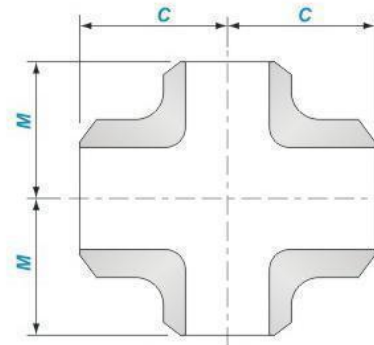
GB/T 12459、 GB/T 13401、 ASME B16.9

公称尺寸 Nominal Size		端部外径 Outside Diameter at Bevel	中心至端面 Center to End	
DN	NPS	$OD_1 \times OD_2$	C	M
15	1/2	213	25	25
15 × 10	1/2 × 3/8	213 × 171		25
15 × 8	1/2 × 1/4	213 × 137		25
20	3/4	267	29	29
20 × 15	3/4 × 1/2	267 × 213		29
20 × 10	3/4 × 3/8	267 × 171		29
25	1	334	38	38
25 × 20	1 × 3/4	334 × 267		38
25 × 15	1 × 1/2	334 × 213		38
32	1 1/4	422	48	48
32 × 25	1 1/4 × 1	422 × 334		48
32 × 20	1 1/4 × 3/4	422 × 267		48
32 × 15	1 1/4 × 1/2	422 × 213		48
40	1 1/2	483	57	57
40 × 32	1 1/2 × 1 1/4	483 × 422		57
40 × 25	1 1/2 × 1	483 × 334		57
40 × 20	1 1/2 × 3/4	483 × 267		57
40 × 15	1 1/2 × 1/2	483 × 213		57
50	2	603	64	64
50 × 40	2 × 1 1/2	603 × 483		60
50 × 32	2 × 1 1/4	603 × 422		57
50 × 25	2 × 1	603 × 334		51
50 × 20	2 × 3/4	603 × 267		44
65	2 1/2	730	76	76
65 × 50	2 1/2 × 2	730 × 603		70
65 × 40	2 1/2 × 1 1/2	730 × 483		67
65 × 32	2 1/2 × 1 1/4	730 × 422		64
65 × 25	2 1/2 × 1	730 × 334		57
80	3	889	86	86
80 × 65	3 × 2 1/2	889 × 730		83
80 × 50	3 × 2	889 × 603		76
80 × 40	3 × 1 1/2	889 × 483		73
80 × 32	3 × 1 1/4	889 × 422		70
90	3 1/2	1016	95	95
90 × 80	3 1/2 × 3	1016 × 889		92
90 × 65	3 1/2 × 2 1/2	1016 × 730		89
90 × 50	3 1/2 × 2	1016 × 603		83
90 × 40	3 1/2 × 1 1/2	1016 × 483		79
100	4	1143	105	105
100 × 90	4 × 3 1/2	1143 × 1016		102
100 × 80	4 × 3	1143 × 889		98
100 × 65	4 × 2 1/2	1143 × 730		95
100 × 50	4 × 2	1143 × 603		89
100 × 40	4 × 1 1/2	1143 × 483		86

■ BUTT-WELDING ELBOWS



对焊异径三通
BW Reducing Tee



对焊异径四通
BW Reducing Cross

GB/T 12459、 GB/T 13401、 ASME B16.9

公称尺寸 Nominal Size		端部外径 Outside Diameter at Bevel	中心至端面 Center to End	
DN	NPS	$OD_1 \times OD_2$	C	M
125	5	141.3	124	124
125 × 100	5 × 4	141.3 × 114.3		117
125 × 90	5 × 3 ¹ / ₂	141.3 × 101.6		114
125 × 80	5 × 3	141.3 × 88.9		111
125 × 65	5 × 2 ¹ / ₂	141.3 × 73.0		108
125 × 50	5 × 2	141.3 × 60.3		105
150	6	168.3		143
150 × 125	6 × 5	168.3 × 141.3	137	
150 × 100	6 × 4	168.3 × 114.3	130	
150 × 90	6 × 3 ¹ / ₂	168.3 × 101.6	127	
150 × 80	6 × 3	168.3 × 88.9	124	
150 × 65	6 × 2 ¹ / ₂	168.3 × 73.0	121	
200	8	219.1	178	
200 × 150	8 × 6	219.1 × 168.3		168
200 × 125	8 × 5	219.1 × 141.3		162
200 × 100	8 × 4	219.1 × 114.3		156
200 × 90	8 × 3 ¹ / ₂	219.1 × 101.6		152
250	10	273.0		216
250 × 200	10 × 8	273.0 × 219.1	203	
250 × 150	10 × 6	273.0 × 168.3	194	
250 × 125	10 × 5	273.0 × 141.3	191	
250 × 100	10 × 4	273.0 × 114.3	184	
300	12	323.8	254	
300 × 250	12 × 10	323.8 × 273.0		241
300 × 200	12 × 8	323.8 × 219.1		229
300 × 150	12 × 6	323.8 × 168.3		219
300 × 125	12 × 5	323.8 × 141.3		216
350	14	355.6		279
350 × 300	14 × 12	355.6 × 323.8	270	
350 × 250	14 × 10	355.6 × 273.0	257	
350 × 200	14 × 8	355.6 × 219.1	248	
350 × 150	14 × 6	355.6 × 168.3	238	
400	16	406.4	305	
400 × 350	16 × 14	406.4 × 355.6		305
400 × 300	16 × 12	406.4 × 323.8		295
400 × 250	16 × 10	406.4 × 273.0		283
400 × 200	16 × 8	406.4 × 219.1		273
400 × 150	16 × 6	406.4 × 168.3		264

对焊三通、四通 BW TEES & CROSSES				
公称尺寸 Nominal Size		端部外径 Outside Diameter at Bevel	中心至端面 Center to End	
DN	NPS	$OD_1 \times OD_2$	C	M
450	18	457.0	343	343
450 × 400	18 × 16	457.0 × 406.4		330
450 × 350	18 × 14	457.0 × 355.6		330
450 × 300	18 × 12	457.0 × 323.8		321
450 × 250	18 × 10	457.0 × 273.0		308
450 × 200	18 × 8	457.0 × 219.1		298
500	20	508.0	381	381
500 × 450	20 × 18	508.0 × 457.0		368
500 × 400	20 × 16	508.0 × 406.4		356
500 × 350	20 × 14	508.0 × 355.6		356
500 × 300	20 × 12	508.0 × 323.8		346
500 × 250	20 × 10	508.0 × 273.0		333
500 × 200	20 × 8	508.0 × 219.1	324	
550	22	559.0	419	419
550 × 500	22 × 20	559.0 × 508.0		406
550 × 450	22 × 18	559.0 × 457.0		394
550 × 400	22 × 16	559.0 × 406.4		381
550 × 350	22 × 14	559.0 × 355.6		381
550 × 300	22 × 12	559.0 × 323.8		371
550 × 250	22 × 10	559.0 × 273.0	359	
600	24	610.0	432	432
600 × 550	24 × 22	610.0 × 559.0		432
600 × 500	24 × 20	610.0 × 508.0		432
600 × 450	24 × 18	610.0 × 457.0		419
600 × 400	24 × 16	610.0 × 406.4		406
600 × 350	24 × 14	610.0 × 355.6		406
600 × 300	24 × 12	610.0 × 323.8	397	
600 × 250	24 × 10	610.0 × 273.0	384	
650	26	660.0	495	495
650 × 600	26 × 24	660.0 × 610.0		483
650 × 550	26 × 22	660.0 × 559.0		470
650 × 500	26 × 20	660.0 × 508.0		457
650 × 450	26 × 18	660.0 × 457.0		444
650 × 400	26 × 16	660.0 × 406.4		432
650 × 350	26 × 14	660.0 × 355.6	432	
650 × 300	26 × 12	660.0 × 323.8	422	
700	28	711.0	521	521
700 × 650	28 × 26	711.0 × 660.0		521
700 × 600	28 × 24	711.0 × 610.0		508
700 × 550	28 × 22	711.0 × 559.0		495
700 × 500	28 × 20	711.0 × 508.0		483
700 × 450	28 × 18	711.0 × 457.0		470
700 × 400	28 × 16	711.0 × 406.4	457	
700 × 350	28 × 14	711.0 × 355.6	457	
700 × 300	28 × 12	711.0 × 323.8	448	
750	30	762.0	559	559
750 × 700	30 × 28	762.0 × 711.0		546
750 × 650	30 × 26	762.0 × 660.0		546
750 × 600	30 × 24	762.0 × 610.0		533
750 × 550	30 × 22	762.0 × 559.0		521
750 × 500	30 × 20	762.0 × 508.0		508
750 × 450	30 × 18	762.0 × 457.0	495	
750 × 400	30 × 16	762.0 × 406.4	483	
750 × 350	30 × 14	762.0 × 355.6	483	
750 × 300	30 × 12	762.0 × 323.8	473	
750 × 250	30 × 10	762.0 × 273.0	460	

■ BUTT-WELDING ELBOWS

公称尺寸 Nominal Size		端部外径 Outside Diameter at Bevel	中心至端面 Center to End	
DN	NPS	$OD_1 \times OD_2$	C	M
800	32	813.0	597	597
800 × 750	32 × 30	813.0 × 762.0		584
800 × 700	32 × 28	813.0 × 711.0		572
800 × 650	32 × 26	813.0 × 660.0		572
800 × 600	32 × 24	813.0 × 610.0		559
800 × 550	32 × 22	813.0 × 559.0		546
800 × 500	32 × 20	813.0 × 508.0		533
800 × 450	32 × 18	813.0 × 457.0		521
800 × 400	32 × 16	813.0 × 406.4		508
800 × 350	32 × 14	813.0 × 355.6		508
850	34	864.0		635
850 × 800	34 × 32	864.0 × 813.0	622	
850 × 750	34 × 30	864.0 × 762.0	610	
850 × 700	34 × 28	864.0 × 711.0	597	
850 × 650	34 × 26	864.0 × 660.0	597	
850 × 600	34 × 24	864.0 × 610.0	584	
850 × 550	34 × 22	864.0 × 559.0	572	
850 × 500	34 × 20	864.0 × 508.0	559	
850 × 450	34 × 18	864.0 × 457.0	546	
850 × 400	34 × 16	864.0 × 406.4	533	
900	36	914.0	673	
900 × 850	36 × 34	914.0 × 864.0		660
900 × 800	36 × 32	914.0 × 813.0		648
900 × 750	36 × 30	914.0 × 762.0		635
900 × 700	36 × 28	914.0 × 711.0		622
900 × 650	36 × 26	914.0 × 660.0		622
900 × 600	36 × 24	914.0 × 610.0		610
900 × 550	36 × 22	914.0 × 559.0		597
900 × 500	36 × 20	914.0 × 508.0		584
900 × 450	36 × 18	914.0 × 457.0		572
900 × 400	36 × 16	914.0 × 406.4		559
950	38	965.0	711	711
950 × 900	38 × 36	965.0 × 914.0		711
950 × 850	38 × 34	965.0 × 864.0		698
950 × 800	38 × 32	965.0 × 813.0		686
950 × 750	38 × 30	965.0 × 762.0		673
950 × 700	38 × 28	965.0 × 711.0		648
950 × 650	38 × 26	965.0 × 660.0		648
950 × 600	38 × 24	965.0 × 610.0		635
950 × 550	38 × 22	965.0 × 559.0		622
950 × 500	38 × 20	965.0 × 508.0		610
950 × 450	38 × 18	965.0 × 457.0		597
1000	40	1016.0	749	749
1000 × 950	40 × 38	1016.0 × 965.0		749
1000 × 900	40 × 36	1016.0 × 914.0		737
1000 × 850	40 × 34	1016.0 × 864.0		724
1000 × 800	40 × 32	1016.0 × 813.0		711
1000 × 750	40 × 30	1016.0 × 762.0		698
1000 × 700	40 × 28	1016.0 × 711.0		673
1000 × 650	40 × 26	1016.0 × 660.0		673
1000 × 600	40 × 24	1016.0 × 610.0		660
1000 × 550	40 × 22	1016.0 × 559.0		648
1000 × 500	40 × 20	1016.0 × 508.0		635
1000 × 450	40 × 18	1016.0 × 457.0		622

公称尺寸 Nominal Size		端部外径 Outside Diameter at Bevel	中心至端面 Center to End		
DN	NPS	$OD_1 \times OD_2$	C	M	
1050	42	1067.0	762	711	
1050 × 1000	42 × 40	1067.0 × 1016.0		711	
1050 × 950	42 × 38	1067.0 × 965.0		711	
1050 × 900	42 × 36	1067.0 × 914.0		711	
1050 × 850	42 × 34	1067.0 × 864.0		711	
1050 × 800	42 × 32	1067.0 × 813.0		711	
1050 × 750	42 × 30	1067.0 × 762.0		711	
1050 × 700	42 × 28	1067.0 × 711.0		698	
1050 × 650	42 × 26	1067.0 × 660.0		698	
1050 × 600	42 × 24	1067.0 × 610.0		660	
1050 × 550	42 × 22	1067.0 × 559.0		660	
1050 × 500	42 × 20	1067.0 × 508.0		660	
1050 × 450	42 × 18	1067.0 × 457.0		648	
1050 × 400	42 × 16	1067.0 × 406.4		635	
1100	44	1118.0		813	762
1100 × 1050	44 × 42	1118.0 × 1067.0	762		
1100 × 1000	44 × 40	1118.0 × 1016.0	749		
1100 × 950	44 × 38	1118.0 × 965.0	737		
1100 × 900	44 × 36	1118.0 × 914.0	724		
1100 × 850	44 × 34	1118.0 × 864.0	724		
1100 × 800	44 × 32	1118.0 × 813.0	711		
1100 × 750	44 × 30	1118.0 × 762.0	711		
1100 × 700	44 × 28	1118.0 × 711.0	698		
1100 × 650	44 × 26	1118.0 × 660.0	698		
1100 × 600	44 × 24	1118.0 × 610.0	698		
1100 × 550	44 × 22	1118.0 × 559.0	686		
1100 × 500	44 × 20	1118.0 × 508.0	686		
1150	46	1168.0	851		800
1150 × 1100	46 × 44	1168.0 × 1118.0			800
1150 × 1050	46 × 42	1168.0 × 1067.0		787	
1150 × 1000	46 × 40	1168.0 × 1016.0		775	
1150 × 950	46 × 38	1168.0 × 965.0		762	
1150 × 900	46 × 36	1168.0 × 914.0		762	
1150 × 850	46 × 34	1168.0 × 864.0		749	
1150 × 800	46 × 32	1168.0 × 813.0		749	
1150 × 750	46 × 30	1168.0 × 762.0		737	
1150 × 700	46 × 28	1168.0 × 711.0		737	
1150 × 650	46 × 26	1168.0 × 660.0		737	
1150 × 600	46 × 24	1168.0 × 610.0		724	
1150 × 550	46 × 22	1168.0 × 559.0		724	
1200	48	1219.0		889	838
1200 × 1150	48 × 46	1219.0 × 1168.0			838
1200 × 1100	48 × 44	1219.0 × 1118.0	838		
1200 × 1050	48 × 42	1219.0 × 1067.0	813		
1200 × 1000	48 × 40	1219.0 × 1016.0	813		
1200 × 950	48 × 38	1219.0 × 965.0	813		
1200 × 900	48 × 36	1219.0 × 914.0	787		
1200 × 850	48 × 34	1219.0 × 864.0	787		
1200 × 800	48 × 32	1219.0 × 813.0	787		
1200 × 750	48 × 30	1219.0 × 762.0	762		
1200 × 700	48 × 28	1219.0 × 711.0	762		
1200 × 650	48 × 26	1219.0 × 660.0	762		
1200 × 600	48 × 24	1219.0 × 610.0	737		
1200 × 550	48 × 22	1219.0 × 559.0	737		

■ BUTT-WELDING ELBOWS

公称尺寸 Nominal Size		端部外径 Outside Diameter at Bevel	中心至端面 Center to End	
DN	NPS	$OD_1 \times OD_2$	C	M
1300	52	1321.0	965	914
1300 × 1200	52 × 48	1321.0 × 1219.0		864
1300 × 1100	52 × 44	1321.0 × 1118.0		813
1300 × 1000	52 × 40	1321.0 × 1016.0		762
1400	56	1422.0	1041	965
1400 × 1300	56 × 52	1422.0 × 1321.0		914
1400 × 1200	56 × 48	1422.0 × 1219.0		864
1400 × 1100	56 × 44	1422.0 × 1118.0		813
1500	60	1524.0	1118	1016
1500 × 1400	60 × 56	1524.0 × 1422.0		965
1500 × 1300	60 × 52	1524.0 × 1321.0		914
1500 × 1200	60 × 48	1524.0 × 1219.0		864
1600	64	1626.0	1194	1092
1600 × 1500	64 × 60	1626.0 × 1524.0		1067
1600 × 1400	64 × 56	1626.0 × 1422.0		1016
1600 × 1300	64 × 52	1626.0 × 1321.0		965
1600 × 1200	64 × 48	1626.0 × 1219.0		914
1700	68	1727.0	1270	1168
1700 × 1600	68 × 64	1727.0 × 1626.0		1143
1700 × 1500	68 × 60	1727.0 × 1524.0		1118
1700 × 1400	68 × 56	1727.0 × 1422.0		1067
1700 × 1300	68 × 52	1727.0 × 1321.0		1016
1700 × 1200	68 × 48	1727.0 × 1219.0		965
1800	72	1829.0	1320	1245
1800 × 1700	72 × 68	1829.0 × 1727.0		1219
1800 × 1600	72 × 64	1829.0 × 1626.0		1194
1800 × 1500	72 × 60	1829.0 × 1524.0		1168
1800 × 1400	72 × 56	1829.0 × 1422.0		1118
1800 × 1300	72 × 52	1829.0 × 1321.0		1067
1800 × 1200	72 × 48	1829.0 × 1219.0		1016
1900	76	1930.0	1422	1320
1900 × 1800	76 × 72	1930.0 × 1829.0		1295
1900 × 1700	76 × 68	1930.0 × 1727.0		1270
1900 × 1600	76 × 64	1930.0 × 1626.0		1245
1900 × 1500	76 × 60	1930.0 × 1524.0		1219
1900 × 1400	76 × 56	1930.0 × 1422.0		1168
1900 × 1300	76 × 52	1930.0 × 1321.0		1118
1900 × 1200	76 × 48	1930.0 × 1219.0		1067
2000	80	2032.0	1499	1397
2000 × 1900	80 × 76	2032.0 × 1930.0		1372
2000 × 1800	80 × 72	2032.0 × 1829.0		1346
2000 × 1700	80 × 68	2032.0 × 1727.0		1321
2000 × 1600	80 × 64	2032.0 × 1626.0		1295
2000 × 1500	80 × 60	2032.0 × 1524.0		1270
2000 × 1400	80 × 56	2032.0 × 1422.0		1219
2000 × 1300	80 × 52	2032.0 × 1321.0		1168
2000 × 1200	80 × 48	2032.0 × 1219.0		1118

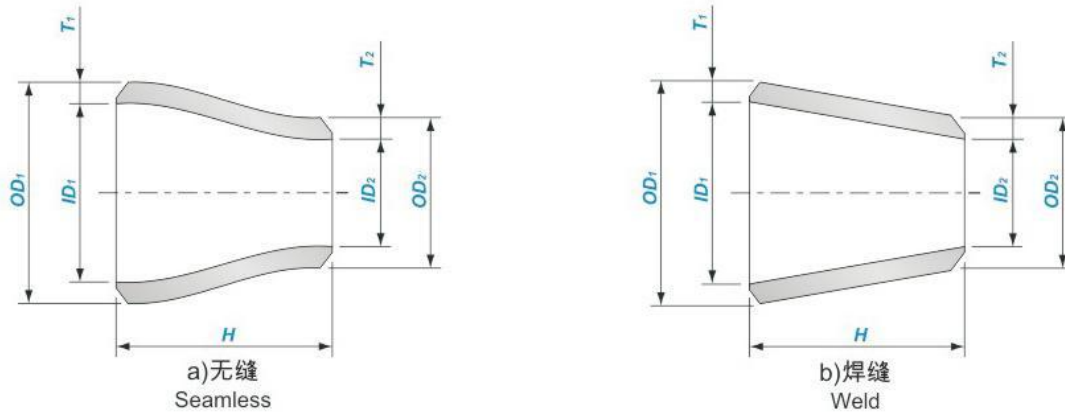
注释:

- 1) 除上述标准外, 还可按 GB/T 10752、SH 3408、SH 3409、HG/T 21635、HG/T 21631、SY/T 0510、DL/T 695、EN 10253 等标准制造。
- 2) 对于 \geq DN 650 (NPS 26) 的等径三通、四通和 \geq DN 350 (NPS 14) 的异径三通、四通, 推荐但不一定要采用出口尺寸 M。
- 3) 更大规格三通、四通, 按采购方与制造商协商的尺寸制造, 或按制造商的尺寸供货。

Notes:

- 1) Besides the above mentioned standards, the standards of GB/T 10752、SH 3408、SH 3409、HG/T 21635、HG/T 21631、SY/T 0510、DL/T 695、EN 10253 etc are also applied.
- 2) For the straight tees and crosses with $\text{DN} \geq 650$ (NPS 26) and the reducing tees and crosses with $\text{DN} \geq 350$ (NPS 14), the outlet sizes are recommended to use (that mean the other sizes may be applied).
- 3) For the tees and crosses with the sizes larger than that listed in the above table, they will be supplied subject to the sized agreed by purchaser and manufacturer or according to manufacturer's size.

■ BUTT-WELDING ELBOWS

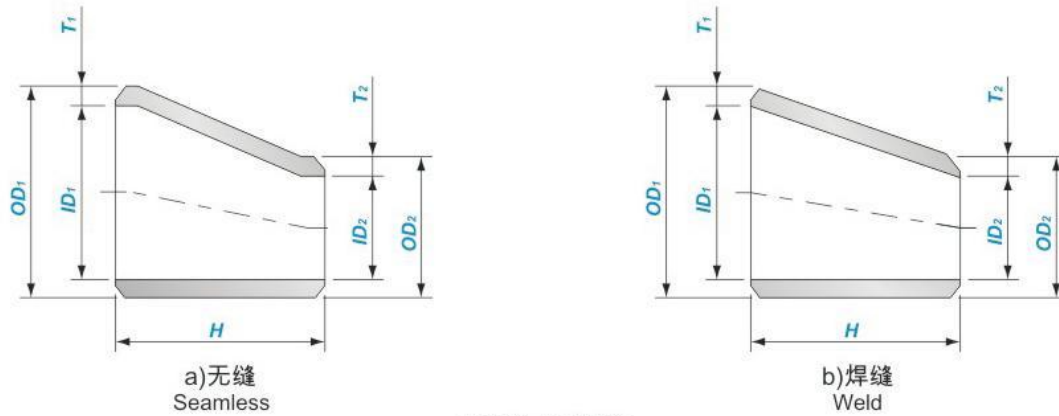


对焊同心异径管
BW Concentric Reducer

GB/T 12459、 GB/T 13401、 ASME B16.9

公称尺寸 Nominal Size		端部外径 Outside Diameter at Bevel	端面至端面 End to End
DN	NPS	$OD_1 \times OD_2$	H
20 × 15	3/4 × 1/2	26.7 × 21.3	38
20 × 10	3/4 × 3/8	26.7 × 17.1	
25 × 20	1 × 3/4	33.4 × 26.7	51
25 × 15	1 × 1/2	33.4 × 21.3	
32 × 25	1 1/4 × 1	42.2 × 33.4	51
32 × 20	1 1/4 × 3/4	42.2 × 26.7	
32 × 15	1 1/4 × 1/2	42.2 × 21.3	
40 × 32	1 1/2 × 1 1/4	48.3 × 42.2	64
40 × 25	1 1/2 × 1	48.3 × 33.4	
40 × 20	1 1/2 × 3/4	48.3 × 26.7	
40 × 15	1 1/2 × 1/2	48.3 × 21.3	
50 × 40	2 × 1 1/2	60.3 × 48.3	76
50 × 32	2 × 1 1/4	60.3 × 42.2	
50 × 25	2 × 1	60.3 × 33.4	
50 × 20	2 × 3/4	60.3 × 26.7	
65 × 50	2 1/2 × 2	73.0 × 60.3	89
65 × 40	2 1/2 × 1 1/2	73.0 × 48.3	
65 × 32	2 1/2 × 1 1/4	73.0 × 42.2	
65 × 25	2 1/2 × 1	73.0 × 33.4	
80 × 65	3 × 2 1/2	88.9 × 73.0	89
80 × 50	3 × 2	88.9 × 60.3	
80 × 40	3 × 1 1/2	88.9 × 48.3	
80 × 32	3 × 1 1/4	88.9 × 42.2	
90 × 80	3 1/2 × 3	101.6 × 88.9	102
90 × 65	3 1/2 × 2 1/2	101.6 × 73.0	
90 × 50	3 1/2 × 2	101.6 × 60.3	
90 × 40	3 1/2 × 1 1/2	101.6 × 48.3	
90 × 32	3 1/2 × 1 1/4	101.6 × 42.2	
100 × 90	4 × 3 1/2	114.3 × 101.6	102
100 × 80	4 × 3	114.3 × 88.9	
100 × 65	4 × 2 1/2	114.3 × 73.0	
100 × 50	4 × 2	114.3 × 60.3	
100 × 40	4 × 1 1/2	114.3 × 48.3	
125 × 100	5 × 4	141.3 × 114.3	127
125 × 90	5 × 3 1/2	141.3 × 101.6	
125 × 80	5 × 3	141.3 × 88.9	
125 × 65	5 × 2 1/2	141.3 × 73.0	
125 × 50	5 × 2	141.3 × 60.3	

■ BUTT-WELDING ELBOWS



对焊偏心异径管
BW Eccentric Reducer

GB/T 12459、 GB/T 13401、 ASME B16.9

公称尺寸 Nominal Size		端部外径 Outside Diameter at Bevel	端面至端面 End to End
DN	NPS	$OD_1 \times OD_2$	H
150 × 125	6 × 5	168.3 × 141.3	140
150 × 100	6 × 4	168.3 × 114.3	
150 × 90	6 × 3 ¹ / ₂	168.3 × 101.6	
150 × 80	6 × 3	168.3 × 88.9	
150 × 65	6 × 2 ¹ / ₂	168.3 × 73.0	
200 × 150	8 × 6	219.1 × 168.3	152
200 × 125	8 × 5	219.1 × 141.3	
200 × 100	8 × 4	219.1 × 114.3	
200 × 90	8 × 3 ¹ / ₂	219.1 × 101.6	
250 × 200	10 × 8	273.0 × 219.1	178
250 × 150	10 × 6	273.0 × 168.3	
250 × 125	10 × 5	273.0 × 141.3	
250 × 100	10 × 4	273.0 × 114.3	
300 × 250	12 × 10	323.8 × 273.0	203
300 × 200	12 × 8	323.8 × 219.1	
300 × 150	12 × 6	323.8 × 168.3	
300 × 125	12 × 5	323.8 × 141.3	
350 × 300	14 × 12	355.6 × 323.8	330
350 × 250	14 × 10	355.6 × 273.0	
350 × 200	14 × 8	355.6 × 219.1	
350 × 150	14 × 6	355.6 × 168.3	
400 × 350	16 × 14	406.4 × 355.6	356
400 × 300	16 × 12	406.4 × 323.8	
400 × 250	16 × 10	406.4 × 273.0	
400 × 200	16 × 8	406.4 × 219.1	
400 × 150	16 × 6	406.4 × 168.3	
450 × 400	18 × 16	457.0 × 406.4	381
450 × 350	18 × 14	457.0 × 355.6	
450 × 300	18 × 12	457.0 × 323.8	
450 × 250	18 × 10	457.0 × 273.0	
450 × 200	18 × 8	457.0 × 219.1	
500 × 450	20 × 18	508.0 × 457.0	508
500 × 400	20 × 16	508.0 × 406.4	
500 × 350	20 × 14	508.0 × 355.6	
500 × 300	20 × 12	508.0 × 323.8	
500 × 250	20 × 10	508.0 × 273.0	
550 × 500	22 × 20	559.0 × 508.0	508
550 × 450	22 × 18	559.0 × 457.0	
550 × 400	22 × 16	559.0 × 406.4	
550 × 350	22 × 14	559.0 × 355.6	
550 × 300	22 × 12	559.0 × 323.8	

对焊同心、偏心异径管 BW CONCENTRIC & ECCENTRIC REDUCERS			
公称尺寸 Nominal Size		端部外径 Outside Diameter at Bevel	端面至端面 End to End
DN	NPS	$OD_1 \times OD_2$	H
600 × 550	24 × 22	610.0 × 559.0	508
600 × 500	24 × 20	610.0 × 508.0	
600 × 450	24 × 18	610.0 × 457.0	
600 × 400	24 × 16	610.0 × 406.4	
600 × 350	24 × 14	610.0 × 355.6	
600 × 300	24 × 12	610.0 × 323.8	
650 × 600	26 × 24	660.0 × 610.0	610
650 × 550	26 × 22	660.0 × 559.0	
650 × 500	26 × 20	660.0 × 508.0	
650 × 450	26 × 18	660.0 × 457.0	
650 × 400	26 × 16	660.0 × 406.4	
650 × 350	26 × 14	660.0 × 355.6	
700 × 650	28 × 26	711.0 × 660.0	610
700 × 600	28 × 24	711.0 × 610.0	
700 × 550	28 × 22	711.0 × 559.0	
700 × 500	28 × 20	711.0 × 508.0	
700 × 450	28 × 18	711.0 × 457.0	
700 × 400	28 × 16	711.0 × 406.4	
700 × 350	28 × 14	711.0 × 355.6	
750 × 700	30 × 28	762.0 × 711.0	
750 × 650	30 × 26	762.0 × 660.0	
750 × 600	30 × 24	762.0 × 610.0	
750 × 550	30 × 22	762.0 × 559.0	
750 × 500	30 × 20	762.0 × 508.0	
750 × 450	30 × 18	762.0 × 457.0	
750 × 400	30 × 16	762.0 × 406.4	
750 × 350	30 × 14	762.0 × 355.6	
800 × 750	32 × 30	813.0 × 762.0	610
800 × 700	32 × 28	813.0 × 711.0	
800 × 650	32 × 26	813.0 × 660.0	
800 × 600	32 × 24	813.0 × 610.0	
800 × 550	32 × 22	813.0 × 559.0	
800 × 500	32 × 20	813.0 × 508.0	
850 × 800	34 × 32	864.0 × 813.0	610
850 × 750	34 × 30	864.0 × 762.0	
850 × 700	34 × 28	864.0 × 711.0	
850 × 650	34 × 26	864.0 × 660.0	
850 × 600	34 × 24	864.0 × 610.0	
850 × 550	34 × 22	864.0 × 559.0	
900 × 850	36 × 34	914.0 × 864.0	610
900 × 800	36 × 32	914.0 × 813.0	
900 × 750	36 × 30	914.0 × 762.0	
900 × 700	36 × 28	914.0 × 711.0	
900 × 650	36 × 26	914.0 × 660.0	
900 × 600	36 × 24	914.0 × 610.0	
900 × 550	36 × 22	914.0 × 559.0	
950 × 900	38 × 36	965.0 × 914.0	
950 × 850	38 × 34	965.0 × 864.0	
950 × 800	38 × 32	965.0 × 813.0	
950 × 750	38 × 30	965.0 × 762.0	
950 × 700	38 × 28	965.0 × 711.0	
950 × 650	38 × 26	965.0 × 660.0	
950 × 600	38 × 24	965.0 × 610.0	

■ BUTT-WELDING ELBOWS

对焊同心、偏心异径管 BW CONCENTRIC & ECCENTRIC REDUCERS			
公称尺寸 Nominal Size		端部外径 Outside Diameter at Bevel	端面至端面 End to End
DN	NPS	$OD_1 \times OD_2$	H
1000 × 950	40 × 38	1016.0 × 965.0	610
1000 × 900	40 × 36	1016.0 × 914.0	
1000 × 850	40 × 34	1016.0 × 864.0	
1000 × 800	40 × 32	1016.0 × 813.0	
1000 × 750	40 × 30	1016.0 × 762.0	
1000 × 700	40 × 28	1016.0 × 711.0	
1050 × 1000	42 × 40	1067.0 × 1016.0	610
1050 × 950	42 × 38	1067.0 × 965.0	
1050 × 900	42 × 36	1067.0 × 914.0	
1050 × 850	42 × 34	1067.0 × 864.0	
1050 × 800	42 × 32	1067.0 × 813.0	
1050 × 750	42 × 30	1067.0 × 762.0	
1050 × 700	42 × 28	1067.0 × 711.0	
1100 × 1050	44 × 42	1118.0 × 1067.0	610
1100 × 1000	44 × 40	1118.0 × 1016.0	
1100 × 950	44 × 38	1118.0 × 965.0	
1100 × 900	44 × 36	1118.0 × 914.0	
1100 × 850	44 × 34	1118.0 × 864.0	
1100 × 800	44 × 32	1118.0 × 813.0	
1150 × 1100	46 × 44	1168.0 × 1118.0	711
1150 × 1050	46 × 42	1168.0 × 1067.0	
1150 × 1000	46 × 40	1168.0 × 1016.0	
1150 × 950	46 × 38	1168.0 × 965.0	
1150 × 900	46 × 36	1168.0 × 914.0	
1150 × 850	46 × 34	1168.0 × 864.0	
1200 × 1150	48 × 46	1219.0 × 1168.0	711
1200 × 1100	48 × 44	1219.0 × 1118.0	
1200 × 1050	48 × 42	1219.0 × 1067.0	
1200 × 1000	48 × 40	1219.0 × 1016.0	
1200 × 950	48 × 38	1219.0 × 965.0	
1200 × 900	48 × 36	1219.0 × 914.0	
1300 × 1200	52 × 48	1321.0 × 1219.0	711
1300 × 1150	52 × 46	1321.0 × 1168.0	
1300 × 1100	52 × 44	1321.0 × 1118.0	
1300 × 1050	52 × 42	1321.0 × 1067.0	
1300 × 1000	52 × 40	1321.0 × 1016.0	
1400 × 1300	56 × 52	1422.0 × 1321.0	711
1400 × 1200	56 × 48	1422.0 × 1219.0	
1400 × 1100	56 × 44	1422.0 × 1118.0	
1400 × 1000	56 × 40	1422.0 × 1016.0	
1500 × 1400	60 × 56	1524.0 × 1422.0	711
1500 × 1300	60 × 52	1524.0 × 1321.0	
1500 × 1200	60 × 48	1524.0 × 1219.0	
1500 × 1100	60 × 44	1524.0 × 1118.0	

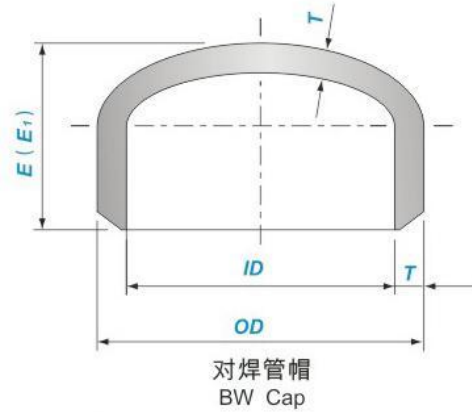
注释:

- 除上述标准外, 还可按 GB/T 10752、SH 3408、SH 3409、HG/T 21635、HG/T 21631、SY/T 0510、DL/T 695、EN 10253 等标准制造。
- 更大规格的同心或偏心异径管, 按采购方与制造商协商的尺寸制造, 或按制造商的尺寸供货。

Notes:

- Besides the above mentioned standards, the standards of GB/T 10752、SH 3408、SH 3409、HG/T 21635、HG/T 21631、SY/T 0510、DL/T 695、EN 10253 etc. are also applied.
- For the concentric and eccentric reducers with the sizes larger than that listed in the above table, they will be supplied subject to the sizes agreed by purchaser and manufacturer or according to manufacturer's size.

■ BUTT-WELDING ELBOWS



GB/T 12459、 GB/T 13401、 ASME B16.9

公称尺寸 Nominal Size		端部外径 Outside Diameter at Bevel	长度 Length		对尺寸 E 的限制厚度 Limiting Wall Thickness for Length E
DN	NPS	OD	E	E ₁	
15	1/2	21.3	25	25	4.57
20	3/4	26.7	25	25	3.81
25	1	33.4	38	38	4.57
32	1 1/4	42.2	38	38	4.83
40	1 1/2	48.3	38	38	5.08
50	2	60.3	38	44	5.59
65	2 1/2	73.0	38	51	7.11
80	3	88.9	51	64	7.62
90	3 1/2	101.6	64	76	8.13
100	4	114.3	64	76	8.64
125	5	141.3	76	89	9.65
150	6	168.3	89	102	10.92
200	8	219.1	102	127	12.70
250	10	273.0	127	152	12.70
300	12	323.8	152	178	12.70
350	14	355.6	165	191	12.70
400	16	406.4	178	203	12.70
450	18	457.0	203	229	12.70
500	20	508.0	229	254	12.70
550	22	559.0	254	254	12.70
600	24	610.0	267	305	12.70
650	26	660.0	267	---	---
700	28	711.0	267	---	---
750	30	762.0	267	---	---
800	32	813.0	267	---	---
850	34	864.0	267	---	---
900	36	914.0	267	---	---
950	38	965.0	305	---	---
1000	40	1016.0	305	---	---
1050	42	1067.0	305	---	---
1100	44	1118.0	343	---	---
1150	46	1168.0	343	---	---
1200	48	1219.0	343	---	---

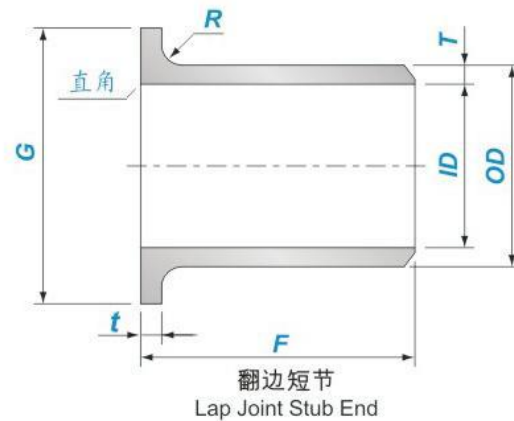
注释:

- 1) 管帽形状为标准椭圆形。
- 2) 管帽的长度不大于限制厚度时为E, 大于限制厚度时为E₁;当管帽的公称尺寸≥DN 650 (NPS 26)时, 长度E₁按采购方与制造商协商的尺寸制造, 或按制造商的尺寸供货

Notes:

- 1) The configuration of the cap is normal ellipse.
- 2) Length E applies for the thickness not exceeding the Limiting Wall Thickness, Length E₁ applies for the thickness exceeding the Limiting Wall Thickness. For the caps with DN ≥ 650 (NPS26), they will be made subject to the sizes agreed between purchaser and manufacturer or be supplied according to manufacturer's size.

■ BUTT-WELDING ELBOWS



GB/T 12459、 ASME B16.9、 MSS SP-43

公称尺寸 Nominal Size		筒体外径 OD of Cylinder		长度 Length		圆角半径 Radius of Fillet		搭接直径 Diameter of Lap
DN	NPS	OD		F		R		G
		Max.	Min.	长型 Long Type	短型 Short Type	A	B _{max}	
15	1/2	22.8	20.5	76	51	3	0.8	35
20	3/4	28.1	25.9	76	51	3	0.8	43
25	1	35.0	32.6	102	51	3	0.8	51
32	1 1/4	43.6	41.4	102	51	5	0.8	64
40	1 1/2	49.9	47.5	102	51	6	0.8	73
50	2	62.4	59.5	152	64	8	0.8	92
65	2 1/2	75.3	72.2	152	64	8	0.8	105
80	3	91.3	88.1	152	64	10	0.8	127
90	3 1/2	104.0	100.8	152	76	10	0.8	140
100	4	116.7	113.5	152	76	11	0.8	157
125	5	144.3	140.5	203	76	11	1.6	186
150	6	171.3	167.5	203	89	13	1.6	216
200	8	222.1	218.3	203	102	13	1.6	270
250	10	277.2	272.3	254	127	13	1.6	324
300	12	328.0	323.1	254	152	13	1.6	381
350	14	359.9	354.8	305	152	13	1.6	413
400	16	411.0	405.6	305	152	13	1.6	470
450	18	462.0	456.0	305	152	13	1.6	533
500	20	514.0	507.0	305	152	13	1.6	584
550	22	565.0	558.0	305	152	13	1.6	641
600	24	616.0	609.0	305	152	13	1.6	692

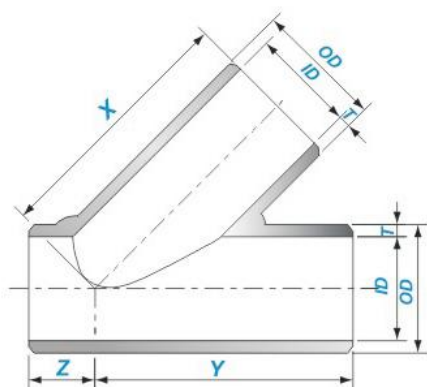
注释:

- 1) 当短型翻边短节用于 PN 50 和 PN 110(300 和 600 级)的较大法兰以及大于等于 PN150(900 级)的大部分规格的法兰时, 或当长型翻边短节用于 PN260 和 PN420(1500 和 2500 级)的较大法兰时, 为了避免法兰可能影响焊接, 或许需要增加筒体的长度。长度增加量由制造商与采购方双方协商。
- 2) 当采用榫槽面和凹凸密封面时, 必须增加搭接边的厚度, 增加厚度应附加(不包括)在基本长度 F 上。
- 3) A 型圆角半径 R 与 GB/T 9118.1~9118.2 或 ASME B16.5 的中松套法兰的圆角半径相符合。B 型的圆角半径 R 仅用于 MSS SP-43 标准中, 其长度 F 为短型。
- 4) 搭接直径 G 与 ASME B16.5 中表示的标准机加工面相符合。搭接边的背面应进行机加工, 使其与安装表面一致。当采用环连密封面时, 使用 ASME B16.5 中给出的尺寸 K。
- 5) 搭接厚度 t 应不小于管子的公称壁厚

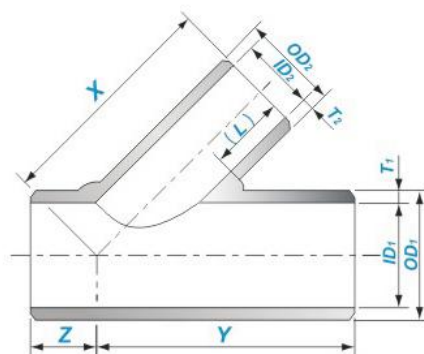
Notes:

- 1) When the short type is used on the larger flanges with PN 50 and PN 110 (300 and 600 LB) and on flanges with PN 150(900 LB) and above, or the long type is used on the larger flange with PN 260 and PN 420(1500 and 2500LB), the length of the cylinder may be added to be feasible the welding, the adding length shall be negotiated by manufacturer and purchaser.
- 2) The thickness of joint shall be added if the TG and MFM contact surface of flange are used, and the adding thickness shall increase (not be included in) the base length F.
- 3) The radius of fillet R (type A) shall conform to the ones of loose flanges according to GB/T 9118.1~ 9118.2 or ASME B16.5. The radius of fillet R (type B) is only applied for the standards of MSS SP-43 with short length F.
- 4) The lap joint diameter G shall conform to the standard machined face indicated in ASME B16.5, and the back of joint shall be machined to conform to the surface of installation. When RJ used, the size K specified in ASME B 16.5 Shall apply.
- 5) The minimum lap joint thickness t shall not be less than the nominal pipe wall thickness.

■ BUTT-WELDING ELBOWS



对焊等径45°斜三通
BW Straight 45° Lateral Tee



对焊异径45°斜三通
BW Reducing 45° Lateral Tee

公称尺寸 Nominal Size		端部外径 Outside Diameter at Bevel	中心至端面 Center to End	
DN	NPS	OD	X and Y	Z
15	1/2	21.3	90	50
20	3/4	26.7	108	50
25	1	33.4	133	50
32	1 1/4	42.2	184	57
40	1 1/2	48.3	216	64
50	2	60.3	230	64
65	2 1/2	73.0	267	64
80	3	88.9	280	76
90	3 1/2	101.6	292	76
100	4	114.3	343	76
125	5	141.3	381	90
150	6	168.3	445	102
200	8	219.1	520	127
250	10	273.0	610	140
300	12	323.8	700	152
350	14	355.6	787	165
400	16	406.4	876	178
450	18	457.0	953	203
500	20	508.0	1029	216
550	22	559.0	1112	229
600	24	610.0	1207	254
650	26	660.0	1308	267
700	28	711.0	1422	286
750	30	762.0	1524	299
800	32	813.0	1626	311
850	34	864.0	1727	330
900	36	914.0	1829	350
950	38	965.0	1930	483
1000	40	1016.0	2032	508
1050	42	1067.0	2134	533
1100	44	1118.0	2235	559
1150	46	1168.0	2337	584
1200	48	1219.0	2438	610
1250	50	1270.0	2540	635
1300	52	1321.0	2642	660
1350	54	1372.0	2743	686
1400	56	1422.0	2845	711
1450	58	1473.0	2946	737
1500	60	1524.0	3048	762

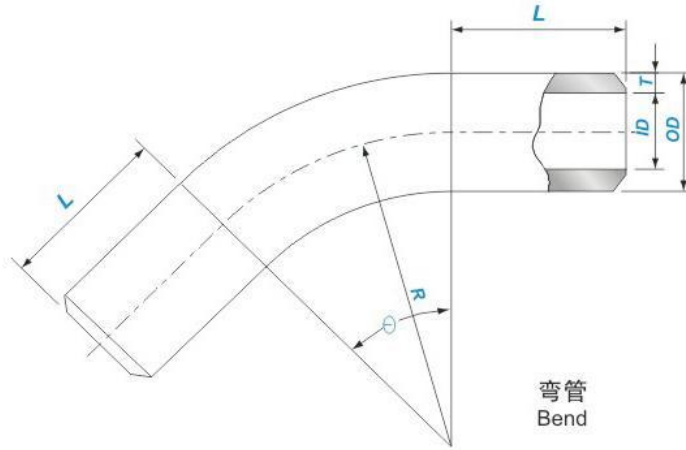
注释:

- 1) 异径三通的X值按支管公称尺寸对应的X值制造, 但当支管变径超过2档(例如NPS 20 × 14)时, 45度夹角处的长度L应等于或大于支管外径OD₂。

Note:

- 1) The value X of the reducing tee shall be according to the one matching to the nominal size of branch pipe, but when the varying diameter of branch exceeds and includes two levels (for example NPS 20 × 14), the length L near the 45° angle shall be equal or larger than the OD₂ of branch pipe.

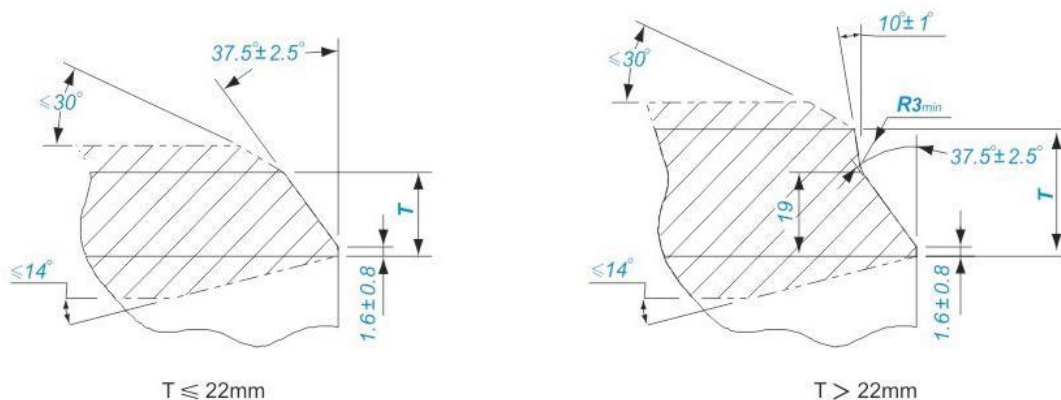
■ BUTT-WELDING ELBOWS



项 目 Item	内 容 Content
标 准 Standard	DL/T 515 《电站弯管》、SY/T 5257 《油气输送用钢制弯管》、ASME B16.49 《用于输送和分配的管道系统中的工厂制造的钢制感应弯管》或采购文件规定 DL/T 515 Pipe Bends for Power Station, SY/T 5257 Steel Bend for Oil and Gas Transmission, ASME B1649 Factory-Made Wrought Steel Induction Bends for Transportation and Distribution Systems and or purchasing specification
材 料 Material	碳素钢、合金钢、不锈钢 Carbon Steel, Alloy Steel, Stainless Steel
弯曲半径 R Bend Radius	$R \geq 3OD$ (OD 为管子外径) $R \geq 3OD$ (OD is outside diameter of pipe)
弯曲角度 θ Bend Angle	按设计文件规定 According to the specification of design documentation
直段长度 L Straight Length	按标准或设计文件规定的长度；或两端直段长度为 500mm Per standard or specified length in the design documentation or both straight lengths are 500mm
外径 OD Outside Diameter	$OD \leq 1220\text{mm}$
壁厚 T Wall Thickness	按设计文件规定 According to the specification of design documentation
端部坡口 Bevel at Ends	按对焊管件端部坡口型式；或按设计文件规定 According to the bevel ends of BW fittings or per specification of design documentation.

对焊管件端部坡口型式

BEVEL ENDS OF BW FITTINGS



注释:

1) 图示为对焊管件常用的端部焊接坡口型式。当采购文件对端部坡口有另外规定时,按采购文件规定的型式加工。

Note:

1) The general bevel ends are as the above. If specially required, the purchase specification shall be performed.

对焊管件的公差

TOLERANCES FOR BW FITTINGS

公称尺寸 Nominal Size		所有管件 ¹⁾²⁾ All Fittings		45°、90° 弯头、三通、四通 45° & 90° Elbows & Tees, Crosses	3D 弯头 3D Radius Elbows	180° 弯头 Returns			管帽 Caps	异径管、翻边短节 Reducers & Lap Joint Stub Ends	翻边短节 Lap Joint Stub Ends		
DN	NPS	OD ³⁾⁴⁾	ID ³⁾	A、B、C、M	A、B	O	K	U	E、E1	H、F	G	R	t
15-65	1/2-2 1/2	+16 -08	± 0.8	± 2	± 3	± 6	± 6	± 1	± 3	± 2	0 -1	0 -1	+16 0
80-90	3-3 1/2	± 1.6	± 1.6	± 2	± 3	± 6	± 6	± 1	± 3	± 2	0 -1	0 -1	+16 0
100	4	± 1.6	± 1.6	± 2	± 3	± 6	± 6	± 1	± 3	± 2	0 -1	0 -2	+16 0
125-200	5-8	+24 -16	± 1.6	± 2	± 3	± 6	± 6	± 1	± 6	± 2	0 -1	0 -2	+16 0
250-450	10-18	+40 -32	± 3.2	± 2	± 3	± 10	± 6	± 2	± 6	± 2	0 -2	0 -2	+32 0
500-600	20-24	+64 -48	± 4.8	± 2	± 3	± 10	± 6	± 2	± 6	± 2	0 -2	0 -2	+32 0
650-750	26-30	+64 -48	± 4.8	± 3	± 6	---	---	---	± 10	± 5	---	---	---
800-1200	32-48	+64 -48	± 4.8	± 5	± 6	---	---	---	± 10	± 5	---	---	---
1300-1500	52-60	+64 -48	± 4.8	± 5	---	---	---	---	---	---	---	---	---
1600-1700	64-68	+64 -48	± 4.8	± 5	---	---	---	---	---	---	---	---	---
1800-2000	72-80	+64 -48	± 4.8	± 5	---	---	---	---	---	---	---	---	---

注释:

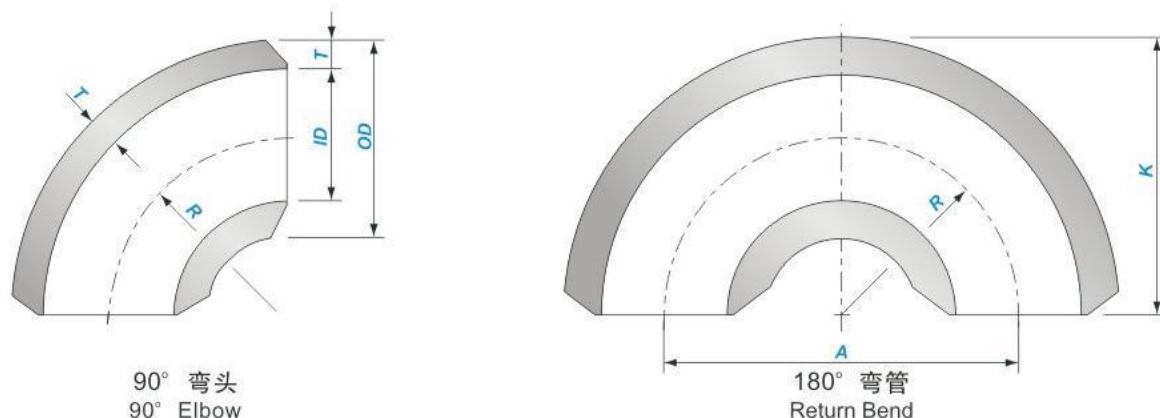
- 1) 端部内径和公称壁厚由采购方指定。
- 2) 如采购方未规定壁厚公差, 则适用87.5%的最小壁厚。
- 3) 圆度为正负偏差绝对值之和。
- 4) 当需要增加壁厚以满足设计要求时, 该项公差可超过表列值。

Note:

- 1) The inside diameter and the nominal wall thickness shall be specified by purchaser.
- 2) If purchaser doesn't specify the thickness tolerance, 87.5% of the nominal thickness shall be the min thickness.
- 3) Out of roundness is the sum of absolute values of plus and minus tolerance.
- 4) When the wall thickness needs increasing to meet the design requirement the tolerance may exceed the ones indicated in the above list.

公称尺寸 Nominal Size		Q	P	
DN	NPS			
15-100	1/2-4	1	2	
125-200	5-8	2	4	
250-300	10-12	3	5	
350-400	14-16	3	6	
450-600	18-24	4	10	
650-750	26-30	5	10	
800-1050	32-42	5	13	
1100-1200	44-48	5	19	
1300-2000	50-80	5	19	

■ BUTT-WELDING ELBOWS



SH/T 3065 石油化工管式炉急弯弯管

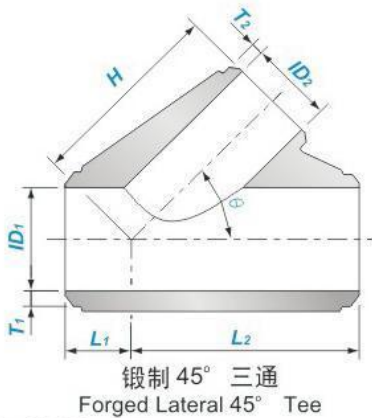
SH/T 3065 RETURN BENDS & ELBOWS OF TUBULAR HEATER IN PETROCHEMICAL INDUSTRY

项 目 Item	内 容 Content
材 料 Material	碳素钢、合金钢、不锈钢 Carbon steel、Alloy steel、Stainless steel
90° 弯头弯曲半径 R Bending radius(90° Elbow)	按设计文件规定 Specified according to the design documentation.
180° 弯管中心距离 A Center to center(Return Bend)	按设计文件规定 Specified according to the design documentation.
壁厚 T Wall thickness	按设计文件规定 Specified according to the design documentation.
端部坡口 Bevel at ends	按对焊管件端部坡口型式；或按设计文件规定 According to the bevel ends of BW fittings or the specification of design documentation.

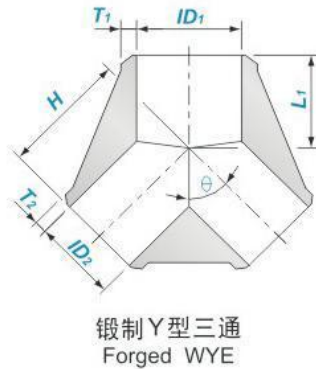
急弯弯头的公差

TOLERANCES FOR RETURN BENDS & ELBOWS

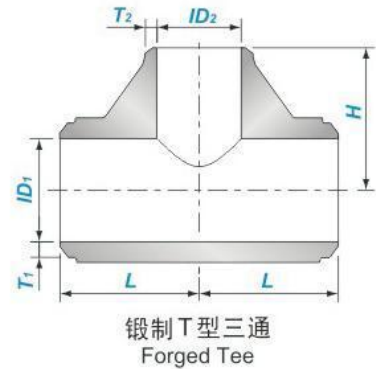
项 目 Item	OD ≤ 76		OD=89 ~127		OD=141 ~193		OD=219 ~237	
	90°	180°	90°	180°	90°	180°	90°	180°
OD	+1.50 -0.75	+1.50 -0.75	± 1.50	± 1.50	+2.00 -0.75	+2.00 -1.50	+2.00 -1.50	+2.00 -1.50
ID	± 0.75	± 0.75	± 1.50	± 1.50	± 1.50	± 1.50	± 1.50	± 1.50
R	± 1.00	-	± 1.50	-	± 2.00	-	± 2.00	-
A	-	± 2.00	-	± 2.50	-	± 2.50	-	± 3.00
K	-	+6.00	-	+6.00	-	+6.00	-	+6.00
U	-	± 1.00	-	± 1.00	-	± 1.00	-	± 2.00
P	1.50	2.00	1.50	2.00	3.00	4.00	3.00	4.00
Q	0.75				1.50			
T	- 12.5% T ; 对于设计文件规定 T 为最小壁厚的急弯弯管, T 的负偏差为零。 - 12.5% T ,If T is the min.one the minus tolerance shall be zero.							



锻制 45° 三通
Forged Lateral 45° Tee



锻制 Y 型三通
Forged WYE



锻制 T 型三通
Forged Tee

大直径锻制三通

FORGED LARGE SIZE TEES

项目 Item	内容 Content
标准 Standard	JB 4726~4728 压力容器用钢锻件 JB 4726~4728 Steel forgings for pressure vessels DL 473 大直径三通锻件技术条件 DL 473 Standard specification for large size tees. ASTM A105 管道元件用碳钢锻件 ASTM A105 Standard Specification for Carbon Steel Forgings for Piping Applications ASTM A182 高温用锻制或轧制合金钢和不锈钢管法兰、锻制管件、阀门和零件 ASTM A182 Standard Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service ASTM A336 高温承压件用合金钢锻件 ASTM A336 Standard Specification for Alloy Steel Forgings for Pressure and High-Temperature Parts ASTM A965 高温承压件用奥氏体钢锻件 ASTM A965 Standard Specification for Austenitic Steel Forgings for Pressure and High Temperature Parts
制造工艺 Fabrication Process	采用锻件镗孔、热处理、超声波检测和精加工成形的工艺制造 Using the processes of forging boring、heat treatment、ultrasonic examination and finishing.
材料 Material	碳素钢、合金钢、不锈钢 Carbon steel、Alloy steel、Stainless steel
尺寸 Size	按设计文件规定；或制造商与采购方协商确定 Per the specification of design documentation or the agreement between manufacturer and purchaser.
公差 Tolerance	按对焊管件公差执行；或按设计文件规定 Per the tolerance of BW fittings or the specification of design documentation.
端部坡口 Bevelends	按对焊管件端部坡口型式；或按设计文件规定 Per the bevel ends of BW fittings or specification of design documentation.

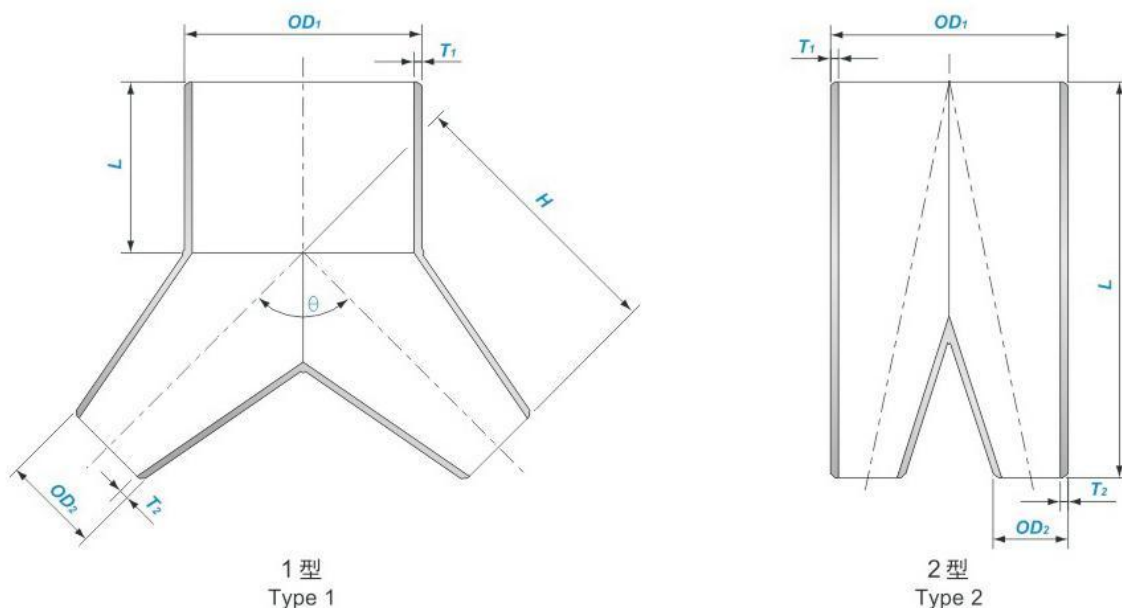
注释：

- 1) 除图示形状外，还可按采购文件规定的形状制造。
- 2) 确定产品形状和尺寸的通常作法如下：
 - a) 由采购方提供制造图纸，制造商按提供的图纸制造。
 - b) 同采购方提出需要的形状、外径，壁厚和夹角等技术要求，同制造商提供制造图纸，经采购方批准后制造。

Note:

- 1) Besides the above figures, others can also be manufactured per the purchase specification..
- 2) Generally, the figures and the sizes will be specified per the following:
 - a) Purchaser provides the drawings and manufacturer will fabricate them accordingly.
 - b) Per the provided specifications by purchasers such as figures, outside diameters, wall thicknesses, angels and etc, manufacturer provides the drawings for purchaser' s review, then manufacture after approval.

■ BUTT-WELDING ELBOWS



钢板制 Y 型三通

WYE MADE UP OF STEEL PLATES

项 目 Item	内 容 Content
成形工艺 Forming Process	采用钢板下料、卷制和焊接的成形工艺制造 Using the processes of cutting steel plate, rolling and welding.
材料 Material	碳素钢、合金钢、不锈钢 Carbon steel, Alloy steel, Stainless steel
结构长度 L Structure length	按设计文件规定；或制造商与采购方协商确定 According to the specification of design documentation or the agreement between manufacturer and purchaser.
外径 OD Outside Diameter	按设计文件规定 According to the specification of design documentation.
夹角 θ Included Angle	按设计文件规定 According to the specification of design documentation.
壁厚 T Thickness	按设计文件规定 According to the specification of design documentation.
公差 Tolerance	按对焊管件公差执行；或按设计文件规定 According to the tolerance of BW fittings or the specification of design documentation.
端部坡口 Bevel at ends	按对焊管件端部坡口型式；或按设计文件规定 According to the bevel ends of BW fittings or specification of design documentation.
注释： 1) 除图示形状外，还可按采购文件规定的形状制造。 2) 确定产品形状和尺寸的通常作法如下： a) 由采购方提供制造图纸，制造商按提供的图纸制造。 b) 由采购方提出需要的形状、外径，壁厚和夹角等技术要求，由制造商提供制造图纸，经采购方批准后制造。	Note: 1) Besides the above figures, others can also be manufactured per the purchase specification.. 2) Generally, the figures and the sizes will be specified per the following: a) Purchaser provides the drawings and manufacturer will fabricate them accordingly. b) Per the provided specifications by purchaser such as figures, outside diameters, wall thicknesses, angels and etc, manufacturer provides the drawings for purchaser's review, then manufacture after approval.

GB、ASME、MSS 管件标准中的接管外径和壁厚表 (适用于所有材料)
 OUTSIDE DIAMETER AND WALL THICKNESS OF THE CONNECTING PIPE FOR FITTING FER STANDARDS GB、ASME、MSS (APPLYING FOR ALL MATERIALS)

公称尺寸 Nominal Size		外径 OD	公称壁厚 T Nominal Wall Thickness T												
DN	NPS		OD	Sch10	Sch20	Sch30	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160
6	1/8	10.3	1.24	-	1.45	1.73	1.73	-	2.41	2.41	-	-	-	-	-
8	1/4	13.7	1.65	-	1.85	2.24	2.24	-	3.02	3.02	-	-	-	-	-
10	3/8	17.1	1.65	-	1.85	2.31	2.31	-	3.20	3.20	-	-	-	-	-
15	1/2	21.3	2.11	-	2.41	2.77	2.77	-	3.73	3.73	-	-	-	4.78	7.47
20	3/4	26.7	2.11	-	2.41	2.87	2.87	-	3.91	3.91	-	-	-	5.56	7.82
25	1	33.4	2.77	-	2.90	3.38	3.38	-	4.55	4.55	-	-	-	6.35	9.09
32	1 1/4	42.2	2.77	-	2.97	3.56	3.56	-	4.85	4.85	-	-	-	6.35	9.70
40	1 1/2	48.3	2.77	-	3.18	3.68	3.68	-	5.08	5.08	-	-	-	7.14	10.15
50	2	60.3	2.77	-	3.18	3.91	3.91	-	5.54	5.54	-	-	-	8.74	11.07
65	2 1/2	73.0	3.05	-	4.78	5.16	5.16	-	7.01	7.01	-	-	-	9.53	14.02
80	3	88.9	3.05	-	4.78	5.49	5.49	-	7.62	7.62	-	-	-	11.13	15.24
90	3 1/2	101.6	3.05	-	4.78	5.74	5.74	-	8.08	8.08	-	-	-	-	-
100	4	114.3	3.05	-	4.78	6.02	6.02	-	8.56	8.56	-	11.13	-	13.49	17.12
125	5	141.3	3.40	-	-	6.55	6.55	-	9.53	9.53	-	12.70	-	15.88	19.05
150	6	168.3	3.40	-	-	7.11	7.11	-	10.97	10.97	-	14.27	-	18.26	21.95
200	8	219.1	3.76	6.35	7.04	8.18	8.18	10.31	12.70	12.70	15.09	18.26	20.62	23.01	22.23
250	10	273.0	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	323.8	4.57	6.35	8.38	9.53	10.31	14.27	12.70	17.48	21.44	25.40	28.58	33.32	25.40
350	14	355.6	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	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	457.0	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	508.0	6.35	9.53	12.70	9.53	15.09	20.62	12.70	26.19	32.54	38.10	44.45	50.01	-
550	22	559.0	6.35	9.53	12.70	9.53	-	22.23	12.70	28.58	34.93	41.28	47.63	53.98	-
600	24	610.0	6.35	9.53	14.27	9.53	17.48	24.61	12.70	30.96	38.89	46.02	52.37	59.54	-
650	26	660.0	7.92	12.70	-	9.53	-	-	12.70	-	-	-	-	-	-
700	28	711.0	7.92	12.70	15.88	9.53	-	-	12.70	-	-	-	-	-	-
750	30	762.0	7.92	12.70	15.88	9.53	-	-	12.70	-	-	-	-	-	-
800	32	813.0	7.92	12.70	15.88	9.53	17.48	-	12.70	-	-	-	-	-	-
850	34	864.0	7.92	12.70	15.88	9.53	17.48	-	12.70	-	-	-	-	-	-
900	36	914.0	7.92	12.70	15.88	9.53	19.05	-	12.70	-	-	-	-	-	-
950	38	965.0	-	-	-	9.53	-	-	12.70	-	-	-	-	-	-
1000	40	1016.0	-	-	-	9.53	-	-	12.70	-	-	-	-	-	-
1050	42	1067.0	-	-	-	9.53	-	-	12.70	-	-	-	-	-	-
1100	44	1118.0	-	-	-	9.53	-	-	12.70	-	-	-	-	-	-
1150	46	1168.0	-	-	-	9.53	-	-	12.70	-	-	-	-	-	-
1200	48	1219.0	-	-	-	9.53	-	-	12.70	-	-	-	-	-	-
1300	52	1321.0	-	-	-	-	-	-	-	-	-	-	-	-	-
1400	56	1422.0	-	-	-	-	-	-	-	-	-	-	-	-	-
1500	60	1524.0	-	-	-	-	-	-	-	-	-	-	-	-	-
1600	64	1626.0	-	-	-	-	-	-	-	-	-	-	-	-	-
1700	68	1727.0	-	-	-	-	-	-	-	-	-	-	-	-	-
1800	72	1829.0	-	-	-	-	-	-	-	-	-	-	-	-	-
1900	76	1930.0	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	80	2032.0	-	-	-	-	-	-	-	-	-	-	-	-	-

注释:

- 1) 表中数值选自ASME B36.10M; 适用于GB和ASME、MSS管件标准中的接管壁厚。
- 2) 如果产品要求的接管外径和壁厚本表中没有列出的话, 可在订货中直接给出要求的数值。

Note:

- 1) The above digits quoted from B36.10M. The connecting pipe thickness of fittings per standards GB, ASME and MSS also apply them.
- 2) If the outside diameter and wall thickness of the connecting pipe aren't included in the above table, these sizes can be specified directly in the purchase order.

■ BUTT-WELDING ELBOWS

GB、ASME、MSS 管件标准中的接管外径和壁厚表(适用于不锈钢材料)

OUTSIDE DIAMETER AND WALL THICKNESS OF THE CONNECTING PIPE FOR FITTING PER STANDARDS GB、ASME、MSS(APPLYING FOR STAINLESS STEEL MATERIALS)

公称尺寸 Nominal Size		外径 OD	公称壁厚 T Nominal Wall Thickness T			
DN	NPS		Sch5S	Sch10S	Sch40S	Sch80S
6	1/8	10.3	-	1.24	1.73	2.41
8	1/4	13.7	-	1.65	2.24	3.02
10	3/8	17.1	-	1.65	2.31	3.20
15	1/2	21.3	1.65	2.11	2.77	3.73
20	3/4	26.7	1.65	2.11	2.87	3.91
25	1	33.4	1.65	2.77	3.38	4.55
32	1 1/4	42.2	1.65	2.77	3.56	4.85
40	1 1/2	48.3	1.65	2.77	3.68	5.08
50	2	60.3	1.65	2.77	3.91	5.54
65	2 1/2	73.0	2.11	3.05	5.16	7.01
80	3	88.9	2.11	3.05	5.49	7.62
90	3 1/2	101.6	2.11	3.05	5.74	8.08
100	4	114.3	2.11	3.05	6.02	8.56
125	5	141.3	2.77	3.40	6.55	9.53
150	6	168.3	2.77	3.40	7.11	10.97
200	8	219.1	2.77	3.76	8.18	12.70
250	10	273.0	3.40	4.19	9.27	12.70
300	12	323.8	3.96	4.57	9.53	12.70
350	14	355.6	3.96	4.78	9.53	12.70
400	16	406.4	4.19	4.78	9.53	12.70
450	18	457.0	4.19	4.78	9.53	12.70
500	20	508.0	4.78	5.54	9.53	12.70
550	22	559.0	4.78	5.54	-	-
600	24	610.0	5.54	6.35	9.53	12.70
650	26	660.0	-	-	-	-
700	28	711.0	-	-	-	-
750	30	762.0	6.35	7.92	-	-

注释:

- 1) 表中数值选自ASME B36.19M; 适用于GB和ASME、MSS管件标准中的接管壁厚。
- 2) 如果产品要求的接管外径和壁厚本表中没有列出的话, 可在订货中直接给出要求的数值。

Note:

- 1) The above digits quoted from B36.19M. The connecting pipe thickness of fittings per standards GB, ASME and MSS also apply them.
- 2) If the outside diameter and wall thickness of the connecting pipe aren't included in the above table, these sizes can be specified directly in the purchase order.



GB/T 12459、GB/T 13401 的 II 系列外径和 HG/T 21631 的 II 系列外径与壁厚表 OUTSIDE DIAMETER (II SERIES) OF GB/T 12459 & GB/T 13401 AND OUTSIDE DIAMETER AND WALL THICKNESS (II SERIES) OF HG/T 21631								HG/T 21635 的公制系列外径与壁厚表 OUTSIDE DIAMETER AND WALL THICKNESS (METRIC SYSTEM) OF HG/T 21635					
公称尺寸 Nominal Size	外径 OD	公称压力 Nominal Pressure PN(MPa)						公称尺寸 Nominal Size	外径 OD	公称压力 Nominal Pressure PN(MPa)			
DN	OD	1.0		1.6		2.5		DN	OD	2.5	4.0	6.4	10.0
		碳钢 CS	不锈钢 SS	碳钢 CS	不锈钢 SS	碳钢 CS	不锈钢 SS						
15	18	-	-	-	-	-	-	15	18	-	-	-	-
20	25	-	-	-	-	-	-	20	25	-	-	-	-
25	32	-	-	-	-	-	-	25	32	3.0	3.0	3.0	4.0
32	38	-	-	-	-	-	-	32	38	3.0	3.0	3.5	4.5
40	45	-	-	-	-	-	-	40	45	3.5	3.5	3.5	4.5
50	57	-	-	-	-	-	-	50	57	3.5	3.5	3.5	5.0
65	76	-	-	-	-	-	-	65	76	4.0	4.0	4.5	6.0
80	89	-	-	-	-	-	-	80	89	4.0	4.0	5.0	7.0
100	108	-	-	-	-	-	-	100	108	4.0	4.0	6.0	8.0
125	133	-	-	-	-	-	-	125	133	4.0	4.0	6.0	9.0
150	159	5	3.5	5.5	4.0	6.0	5.0	150	159	4.5	4.5	7.0	10
200	219	5	3.5	6.0	4.0	7.0	5.0	200	219	6.0	6.0	9.0	12
250	273	5	3.5	6.0	4.5	8.0	6.0	250	273	7.0	7.0	11	-
300	325	6	4.0	7.0	5.0	8.0	7.0	300	325	8.0	8.0	12	-
350	377	6	4.5	7.0	6.0	9.0	8.0	350	377	9.0	9.0	-	-
400	426	6	4.5	8.0	6.0	10	9.0	400	426	9.0	11	-	-
450	480	7	5.0	8.0	7.0	11	9.0	450	480	9.0	-	-	-
500	530	7	5.5	9.0	7.0	12	10	500	530	9.0	-	-	-
600	630	8	6.0	10	8.0	13	12	600	630	9.0	-	-	-
700	720	8	7.0	11	9.0	15	13	700	720	-	-	-	-
800	820	9	7.0	12	10	16	15	800	820	-	-	-	-
900	920	9	8.0	13	-	-	-	900	920	-	-	-	-
1000	1020	10	-	14	-	-	-	1000	1020	-	-	-	-
1100	1120	-	-	-	-	-	-	1100	1120	-	-	-	-
1200	1220	-	-	-	-	-	-	1200	1220	-	-	-	-

<p>注释:</p> <p>1) GB/T 12459 和 GB/T 13401 标准的 II 系列外径见本表中的外径值; II 系列的壁厚可选择 26~27 页壁厚表的数值,也可在订货中直接给出要求的壁厚值。</p> <p>2) HG/T 21631 (原 HGJ 528) 标准中外径和壁厚分为 I、II 两个系列;其中 I 系列的外径和壁厚按 26~27 页表中的数值。</p> <p>3) HG/T 21635 (原 HGJ 514) 标准中外径和壁厚分为公制、英制两个系列;其中英制系列的外径和壁厚按 26~27 页表中的数值。</p>	<p>Note:</p> <p>1) The outside diameter (II series) of GB/T 12459 and GB/T 13401 standards shall be per the one indicated in the above table; The wall thickness of II series can be per the table in page 26~27 or be specified directly in the purchase order.</p> <p>2) The outside diameter and wall thickness of HG/T 21631 (previously HGJ 528) standards have the series of I system and II system, and the outside diameter and wall thickness of I series are in accordance with the ones in the table of page 26~27.</p> <p>3) The outside diameter and wall thickness of HG/T 21635 (previously HGJ 514) standard have the series of metric system and inch system, and the outside diameter and wall thickness of inch system are in accordance with the ones in the table of page 26~27.</p>
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■ BUTT-WELDING ELBOWS

SH 管件标准中的接管外径和壁厚表
OUTSIDE DIAMETER AND WALL THICKNESS OF THE CONNECTING PIPE FOR FITTING PER STANDARDS SH

公称尺寸 Nominal Size	外径 OD	公称壁厚 <i>T</i> Nominal Wall Thickness <i>T</i>														
		Sch 5s	Sch 10s	Sch 20s	Sch 40s	Sch 80s	Sch 20	Sch 30	Sch 40	Sch 60	Sch 80	Sch 100	Sch 120	Sch 140	Sch 160	XXS
DN	OD															
10	17	1.2	1.6	2.0	2.5	3.2	-	-	2.5	-	3.5	-	-	-	-	-
15	22	1.6	2.0	2.5	3.0	4.0	-	-	3.0	-	4.0	-	-	-	5.0	7.5
20	27	1.6	2.0	2.5	3.0	4.0	-	-	3.0	-	4.0	-	-	-	5.5	8.0
25	34	1.6	2.8	3.0	3.5	4.5	-	-	3.5	-	4.5	-	-	-	6.5	9.0
(32)	42	1.6	2.8	3.0	3.5	5.0	-	-	3.5	-	5.0	-	-	-	6.5	10.0
40	48	1.6	2.8	3.0	4.0	5.0	-	-	4.0	-	5.0	-	-	-	7.0	10.0
50	60	1.6	2.8	3.5	4.0	5.5	3.5	-	4.0	5.0	5.5	-	7.0	-	8.5	11.0
(65)	76	2.0	3.0	3.5	5.0	7.0	4.5	-	5.0	6.0	7.0	-	8.0	-	9.5	14.0
80	89	2.0	3.0	4.0	5.5	7.5	4.5	-	5.5	6.5	7.5	-	9.0	-	11.0	15.0
100	114	2.0	3.0	4.0	6.0	8.5	5.0	-	6.0	7.0	8.5	-	11.0	-	14.0	17.0
(125)	140	2.8	3.5	5.0	6.5	9.5	5.0	-	6.5	8.0	9.5	-	13.0	-	16.0	19.0
150	168	2.8	3.5	5.0	7.0	11.0	5.5	6.5	7.0	9.5	11.0	-	14.0	-	18.0	22.0
200	219	2.8	4.0	6.5	8.0	13.0	6.5	7.0	8.0	10.0	13.0	15.0	18.0	20.0	24.0	23.0
250	273	3.5	4.0	6.5	9.5	15.0	6.5	8.0	9.5	13.0	15.0	18.0	22.0	25.0	28.0	25.0
300	325	4.0	4.5	6.5	9.5	17.0	6.5	8.5	10.0	14.0	17.0	22.0	25.0	28.0	34.0	26.0
350	356	4.0	5.0	-	-	-	8.0	9.5	11.0	15.0	19.0	24.0	28.0	32.0	36.0	-
400	406	4.5	5.0	-	-	-	8.0	9.5	13.0	17.0	22.0	26.0	32.0	36.0	40.0	-
450	457	-	-	-	-	-	8.0	11.0	14.0	19.0	24.0	30.0	35.0	40.0	45.0	-
500	508	-	-	-	-	-	9.5	13.0	15.0	20.0	26.0	32.0	38.0	45.0	50.0	-
550	559	-	-	-	-	-	9.5	13.0	17.0	22.0	28.0	35.0	42.0	48.0	54.0	-
600	610	-	-	-	-	-	9.5	14.0	18.0	25.0	32.0	38.0	45.0	52.0	60.0	-
650	660	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
700	711	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
750	762	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
800	813	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
850	864	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
900	914	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
950	965	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1000	1016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1100	1118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1200	1220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1300	1321	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1400	1420	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1500	1524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1600	1620	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1700	1727	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1800	1820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1900	1930	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

注释:

1) 表号后带 S 者仅适用于不锈钢管件。

Note:

1) Schedule with the suffix "s" only applies for stainless steel.

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