



STAINLESS STEEL FLANGE

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**浙江城远法兰管件**  
ZHEJIANG CHENGYUAN FLANGE PIPE FITTINGS



**STAINLESS STEEL  
FLANGE MANUFACTURER**

不锈钢法兰制造商

# QUALIFICATION HONOR

## 资质荣誉

获得的资质和荣誉，是对丰伟过去取得成绩的肯定，也是对丰伟创造明日辉煌的鼓舞和鞭策！  
向新的台阶迈进，是丰伟人顽强拼搏、永不停歇的信念！

Chengyuan qualifications and honors are an affirmation of Feng Wei's past achievements. It is also an encouragement and spur to Fengwei to create tomorrow's brilliance! Marching to a new level is the faith of Fengwei people who work hard and never stop!



# PRODUCTS SHOW

## 产品展示

### 工业级管件系列 INDUSTRIAL PIPE FITTINGS SERIES



45° 弯头  
45° Elbow



90° 弯头  
90° Elbow



180° 弯头  
180° Elbow



弯管  
3D/5D/10D Bend



等径三通  
Straight Tee



异径三通  
Reducing Tee



斜三通  
Lateral Tee



等径四通  
Cross



同心大小头  
Concentric Reducer



同心大小头  
Concentric Reducer



偏心大小头  
Eccentric Reducer



偏心大小头  
Eccentric Reducer



高压弯头  
High Pressure Elbow



管帽  
Cap



封头  
Cap



翻边  
Stub End



# PRODUCTS SHOW

## 产品展示

### 卫生级管件系列 SANITARY PIPE FITTING SERIES



90°弯头  
90° Elbow



90°弯管  
90° Bend



45°弯头  
45° Elbow



等径三通  
Straight Tee



异径三通  
Reducing Tee



同心大小头  
Concentric Reducer



快装大小头  
Quick Reducer



快装三通  
Quick Tee



精车翻边(短型)  
Finish Turning Stub End  
(Short Type)



精车翻边(长型)  
Finish Turning Stub End  
(Long Type)

### 法兰系列 FLANGE SERIES



板式平焊法兰  
(PL) Plate Flange



带颈平焊法兰  
(SO) Slip-on Flange



带颈对焊法兰  
(WN) Welding Neck Flange



平焊环松套法兰  
Flat Welding Ring Loose Flange



对焊环松套法兰  
Butt Welding Ring Loose Flange



盲板  
Blind Flange



视镜  
Glass



内螺纹法兰  
Internal Thread Flange



橡胶软接头法兰  
Rubber Soft Joint Flange



波纹管法兰  
Bellows Flange

# PRODUCTION PROCESS

## 生产工艺



### 企业生产原材料

半成品及产品进行合理控制严格按照ISO9001质量管理, 生产通过提高工作质量保证产品的稳定性, 公司产品质量检验合格, 决不让一件不合格的产品出厂既是对客户负责, 更是对我们自己负责。

### Enterprise Production Raw Materials

Semi-finished products and products are reasonably controlled in strict accordance with ISO9001 quality management, Production guarantees the stability of products by improving the quality of work, and the quality of the company's products The quantity inspection is qualified, and never let an unqualified product leave the factory. Responsible is also responsible to ourselves.

# FINISHED PRODUCT INSPECTION

## 成品/检测



### 精良设备/强大实力

丰炜对每个产品都进行严格的检测。检测员高度负责的用心溶于每一个部件中，加上最先进的检测设备和严格的科学化管理，使每一个生产的成品经得住顾客的精心挑选。丰炜郑重承诺让每一个生产产品都达到出厂标准。这就是丰炜产品得以畅销的秘诀所在。

### Sophisticated Equipment/Strong Strength

Fengwei carries out strict testing on each product. The inspector's highly responsible diligence is reflected in every component, coupled with the most advanced testing equipment and strict scientific management, make every production The finished products can withstand the careful selection of customers. Fengwei solemnly promises to make every product produced reach the factory standard. This is the secret of Fengwei's best-selling products.

# PROCESS FLOW

## 工艺流程

### 不锈钢管件制造工艺流程

Stainless Steel Pipe Manufacturing Process



### 无缝/有缝对焊管件

Seamless And Welded Butt Welding Fittings



# APPLICATION FIELD

## 应用领域



产品广泛用于造纸、造船、石油、化工、电力、生物工程、天然气、污水、建筑、医药、食品(乳品)等行业。

The products produced and operated by the company are widely used in papermaking, shipbuilding, petroleum, chemical industry, electric power, biological engineering, natural gas, sewage, construction, medicine, food (dairy) and other industries.



# MARKETING NETWORK

## 营销网络

在标准化规范化发展前提下,企业先后获得国家压力管道TS证书、国际质量体系ISO9001证书、多枚国家商标注册、多项专利等证书和荣誉。产品也远销海外,遍及美国,日本,欧洲,东南亚,南非等国家和地区。卓越管理、精良品质、永续经营。丰炜的各项质量活动已实现制度化、程序化、规范化。也本着“以质取胜、以技图宏”的企业宗旨,竭诚为广大客户服务,愿与您共创辉煌。

Under the premise of standardized development, the company has successively obtained the national pressure pipeline TS certificate, International quality system ISO9001 certificate, multiple national trademark certificates, multiple patents and other certificates and honor. Products are also exported overseas, throughout the United States, Japan, Europe, Southeast Asia, South Africa and other countries and regions. Excellent management, excellent quality, sustainable operation. The quality of Fengwei Activities have been institutionalized, programmed and standardized. Also in the spirit of "winning by quality, by technical drawing "Macro" enterprise purpose, wholeheartedly serve our customers, and we are willing to create brilliance with you.



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# PIPE FITTINGS SERIES

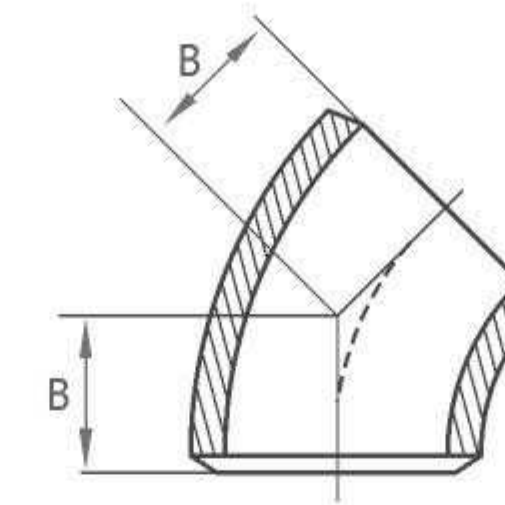
管件系列  
.....



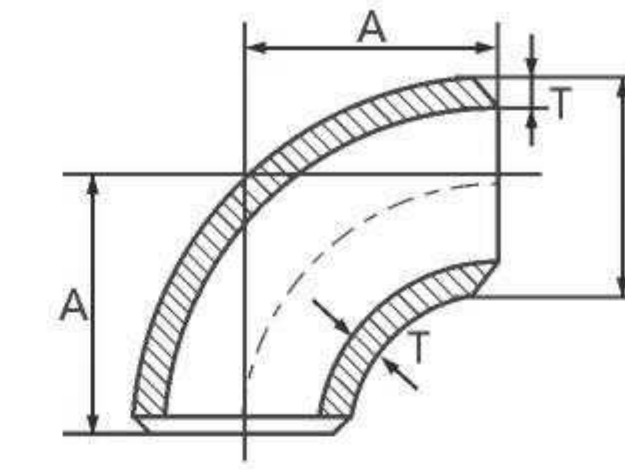
## 产品名称 Products Description:

45°、90°、180°长半径和短半径弯头，三通，四通，异径管，管帽，翻边，弯管。  
45°, 90°, 180° Elbow(LR&SR), Tee, Cross, Reducers, Cap, Stub End, Bend.

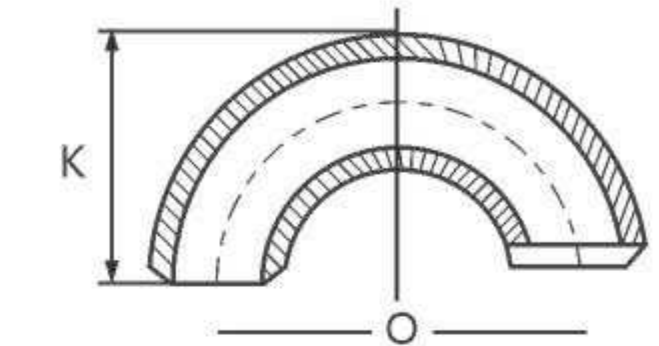
## BUTT WELDING ELBOWS AND RETURNS 对焊弯头



对焊45°长半径弯头  
45° Elbow LR



对焊90°长半径/短半径弯头  
90° Elbow LR/SR



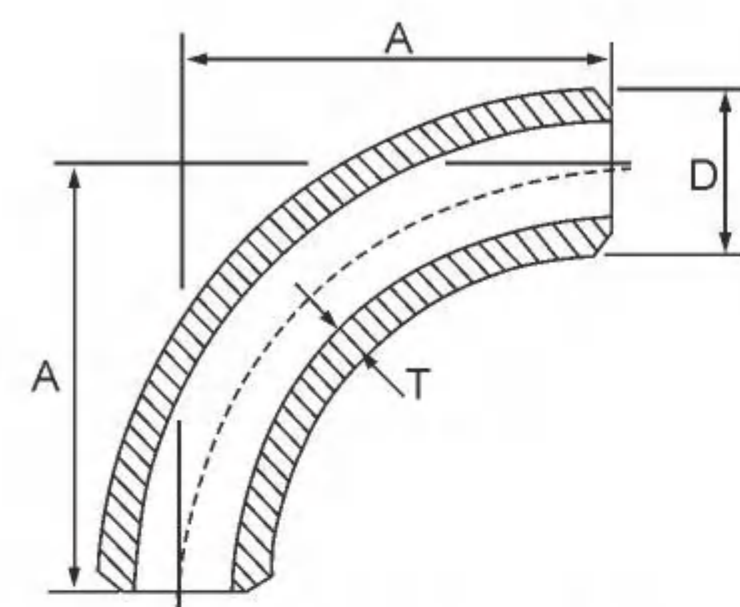
对焊180°长半径/短半径弯头  
180° Elbow LR/SR

ASME B16.9

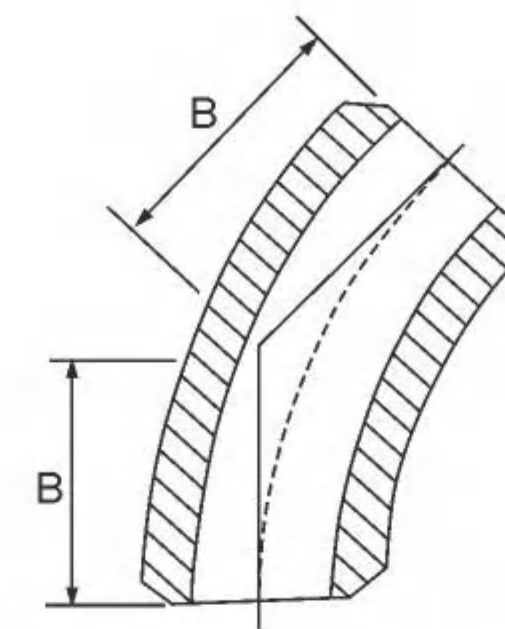
公称尺寸 Nominal Size		端部外径 OD At Bevel	中心至端面 Center To End		中心至中心 Center To Center		背面至端面 Back To Face		
			90°Elbows		180°Returns		180°Returns		
DN	NPS	D	A		B	O		K	
			长半径 LR	短半径 SR	长半径 LR	长半径 LR	短半径 SR	长半径 LR	短半径 SR
15	1/2	21.3	38	-	16	76	-	48	-
20	3/4	26.7	38	-	19	76	-	51	-
25	1	33.4	38	25	22	76	51	56	41
32	1¼	42.2	48	32	25	95	64	70	52
40	1½	48.3	57	38	29	114	76	83	62
50	2	60.3	76	51	35	152	102	106	81
65	2½	73.0	95	64	44	191	127	132	100
80	3	88.9	114	76	51	229	152	159	121
90	3½	101.6	133	89	57	267	178	184	140
100	4	114.3	152	102	64	305	203	210	159
125	5	141.3	190	127	79	381	254	262	197
150	6	168.3	229	152	95	457	305	313	237
200	8	219.1	305	203	127	610	406	414	313
250	10	273.0	381	254	159	762	508	518	391
300	12	323.8	457	305	190	914	609	619	467
350	14	355.6	533	356	222	1067	711	711	533
400	16	406.4	610	406	254	1219	813	813	610
450	18	457.0	686	457	286	1372	914	914	686
500	20	508.0	762	508	318	1524	1016	1016	762
550	22	559.0	838	559	343	1676	1118	1118	838
600	24	610.0	914	610	381	1829	1219	1219	914
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	1420	883	-	-	-	-
1500	60	1524.0	2286	1524	947	-	-	-	-
1600	64	1626.0	2438	1620	1010	-	-	-	-
1700	68	1727.0	2591	1727	1073	-	-	-	-
1800	72	1829.0	2743	1829	1137	-	-	-	-
1900	76	1932.0	2896	1930	1199	-	-	-	-
2000	80	2032.0	3048	2032	1263	-	-	-	-

注释Note:

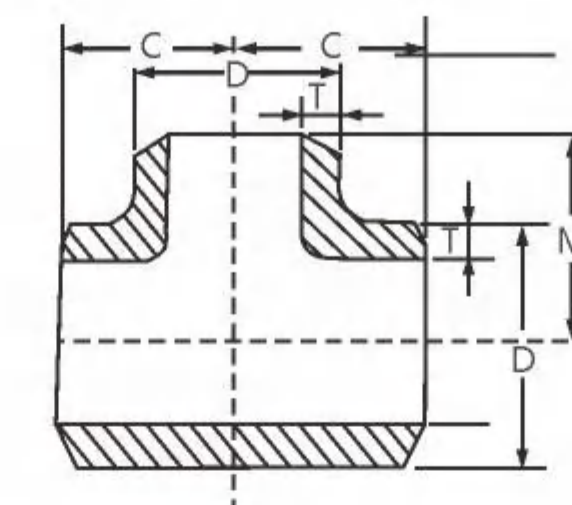
除上述标准外，还可按GB/T 12459、GB/T13401、GB/T 10752、SH 3408、SH 3409、HG/T 21635、HG/T 21631、SY/T 0510、ASME16.28、DIN 2605、DL/T 695、EN 10253等标准制造。  
Besides the above mentioned standards, GB/T 12456、GB/T13401、GB/T 10752、SH 3408、SH 3409、HG/T 21635、HG/T 21631、SY/T0510、ASME 16.2 DIN 2605、DL/T 695、EN 10253 specifications are also available.



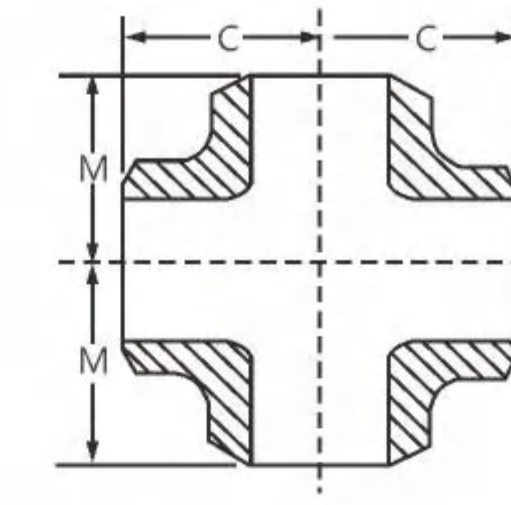
对焊90° 3D、5D、10D弯头  
90° 3D、5D、10DElbow



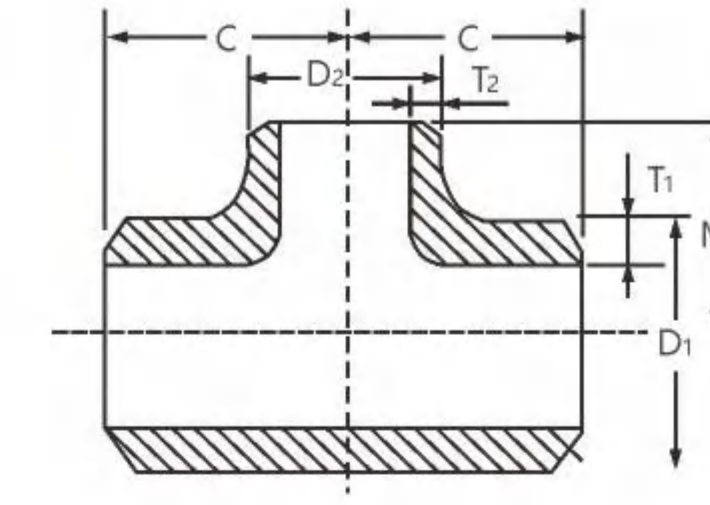
对焊45° 3D弯头  
45° 3DElbow



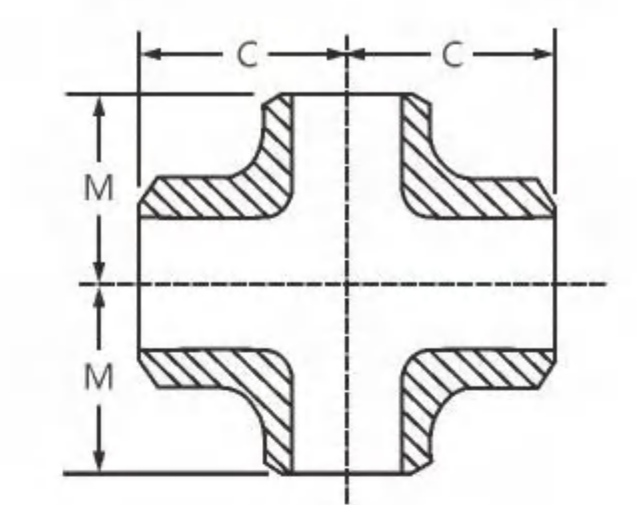
对焊等径三通  
BW Straight Tee



对焊等径四通  
BW Straight Cross



对焊异径三通  
BW Reducing Tee



对焊异径四通  
BW Reducing Cross

ASME B16.9

公称尺寸 Nominal Size		端部外径 OD At Bevel D	中心至端面 Center To End			
DN	NPS		45°Elbows B 3D	90°Elbows A 3D	90°Elbows A 5D	90°Elbows A 10D
15	1/2	21.3	-	-	-	-
20	3/4	26.7	24	57	-	-
25	1	33.4	31	76	-	-
32	1 1/4	42.2	39	95	-	-
40	1 1/2	48.3	47	114	191	-
50	2	60.3	63	152	254	508
65	2 1/2	73.0	79	190	318	635
80	3	88.9	95	229	381	762
90	3 1/2	101.6	111	267	445	889
100	4	114.3	127	305	508	1016
125	5	141.3	157	381	635	1270
150	6	168.3	189	457	762	1524
200	8	219.1	252	610	1016	2032
250	10	273.0	316	762	1270	2540
300	12	323.8	378	914	1524	3048
350	14	355.6	441	1067	1778	3556
400	16	406.4	505	1219	2032	4064
450	18	457.0	568	1372	2286	4572
500	20	508.0	632	1524	2540	5080
550	22	559.0	694	1679	2794	5588
600	24	610.0	757	1829	3048	6096
650	26	660.0	821	1981	3302	6604
700	28	711.0	883	2134	3556	7112
750	30	762.0	964	2286	3810	7620
800	32	813.0	1010	2438	4064	8128
850	34	864.0	1073	2591	4318	8636
900	36	914.0	1135	2743	4572	9144
905	38	965.0	1200	2896	4826	9652
1000	40	1016.0	1264	3048	5080	10160
1050	42	1067.0	1326	3200	5334	10668
1100	44	1118.0	1389	3353	5588	11176
1150	46	1168.0	1453	3505	5842	11684
1200	48	1219.0	1516	3658	6096	12192

公称尺寸 Nominal Size		端部外径 OD At Bevel D <sub>1</sub> × D <sub>2</sub>	中心至端面 Center To End	
DN	NPS		C	M
15	1/2	21.3	25	25
15×10	1/2×3/8	21.3×17.1		25
15×8	1/2×1/4	21.3×13.7		25
20	3/4	26.7	29	29
20×15	3/4×1/2	26.7×21.3		29
20×10	3/4×3/8	26.7×17.1		29
25	1	33.4	38	38
25×20	1×3/4	33.4×26.7		38
25×15	1×1/2	33.4×21.3		38
32	1 1/4	42.2	48	48
32×25	1 1/4×1	42.2×33.4		48
32×20	1 1/4×3/4	42.2×26.7		48
32×15	1 1/4×1/2	42.2×21.3	48	48
40	1 1/2	48.3	57	57
40×32	1 1/2×1 1/4	48.3×42.2		57
40×25	1 1/2×1	48.3×33.4		57
40×20	1 1/2×3/4	48.3×26.7	57	57
40×15	1 1/2×1/2	48.3×21.3	57	57
50	2	60.3	64	64
50×40	2×1 1/2	60.3×48.3		60
50×32	2×1 1/4	60.3×42.2		57
50×25	2×1	60.3×26.7	51	51
50×20	2×3/4	60.3×21.3	44	44
65	2 1/2	73	76	76
65×50	2 1/2×2	73×60.3		70
65×40	2 1/2×1 1/2	73×48.3		67
65×32	2 1/2×1 1/4	73×42.2	64	64
65×25	2 1/2×1	73×33.4	57	57
80	3	88.9	86	86
80×65	3×2 1/2	88.9×73.0		83
80×50	3×2	88.9×60.3		76
80×40	3×1 1/2	88.9×48.3	73	73
80×32	3×1 1/4	88.9×42.2	70	70
90	3 1/2	101.6	95	95
90×80	3 1/2×3	101.6×88.9		92
90×65	3 1/2×2 1/2	101.6×73.0		89
90×50	3 1/2×2	101.6×60.3	83	83
90×40	3 1/2×1 1/2	101.6×48.3	79	79

公称尺寸 Nominal Size		端部外径 OD At Bevel D <sub>1</sub> × D <sub>2</sub>	中心至端面 Center To End	
DN	NPS		C	M
100	4	114.3	105	105
100×90	4×3 1/2	114.3×101.6		102
100×80	4×3	114.3×88.9		98
100×65	4×2 1/2	114.3×73.0		95
100×50	4×2	114.3×60.3		89
100×40	4×1 1/2	114.3×48.3		86
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	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	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	

公称尺寸 Nominal Size		端部外径 OD At Bevel	中心至端面 Center To End	
DN	NPS	D <sub>1</sub> ×D <sub>2</sub>	C	M
400	16	406.4	305	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
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	508.0×219.0	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		486
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	762.0×323.6	473	
750×250	30×10	762.0×273.0	460	

公称尺寸 Nominal Size		端部外径 OD At Bevel	中心至端面 Center To End	
DN	NPS	D <sub>1</sub> ×D <sub>2</sub>	C	M
800	32	813.0	597	597
800×750	32×30	813.0×726.0		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	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	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	579	
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 OD At Bevel	中心至端面 Center To End	
DN	NPS	D <sub>1</sub> ×D <sub>2</sub>	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		787
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	762	
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	737	
1200×600	48×24	1219.0×610.0	737	
1200×550	48×22	1219.0×559.0	737	

公称尺寸 Nominal Size		端部外径 OD At Bevel	中心至端面 Center To End		
DN	NPS	D <sub>1</sub> ×D <sub>2</sub>	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	1932.0	1422	1320	
1900×1800	76×72	1932.0×1829.0		1295	
1900×1700	76×68	1932.0×1727.0		1270	
1900×1600	76×64	1932.0×1626.0		1245	
1900×1500	76×60	1932.0×1524.0		1219	
1900×1400	76×56	1932.0×1422.0		1168	
1900×1300	76×52	1932.0×1321.0	1118		
1900×1200	76×48	1932.0×1219.0	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		

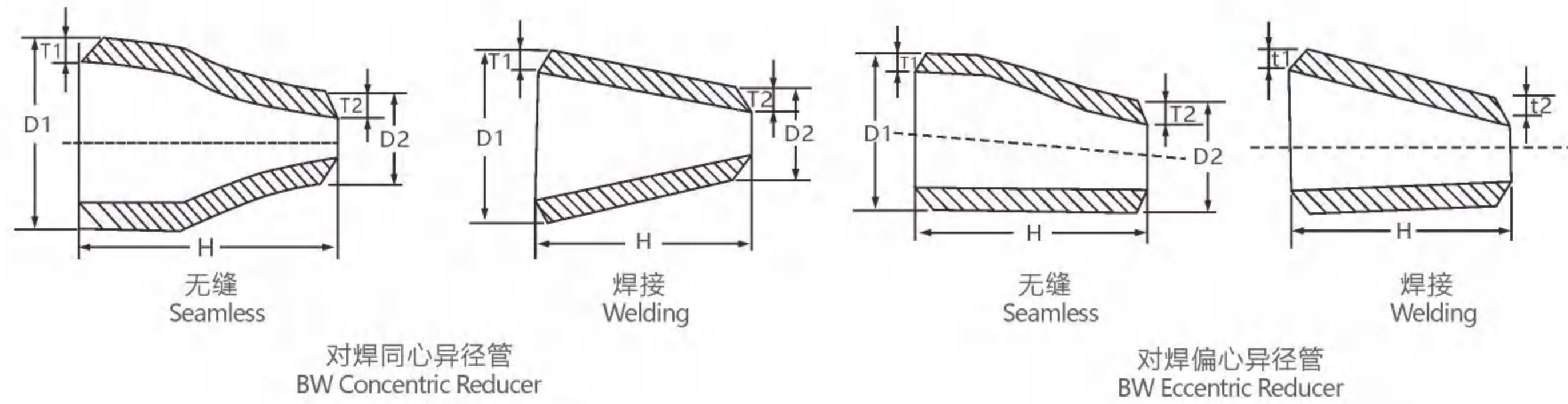
注释Note:

1)除上述标准外, 还可按GB/T 12459、GB/T13401、GB/T10752、SH3408、SH3409、HG/T21631、HG/T21635、SY/T0510、JIS132311、JIS132312、JIS 132313、DIN2615、DL/T695、EN10253等标准制造。  
Besides the above mentioned standards, GB/T12459、GB/T13401、GB/T 10752、SH3408



**BW CONCENTRIC AND ECCENTRIC REDUCER**  
对焊同心、偏心异径管

**BW CONCENTRIC AND ECCENTRIC REDUCER**  
对焊同心、偏心异径管



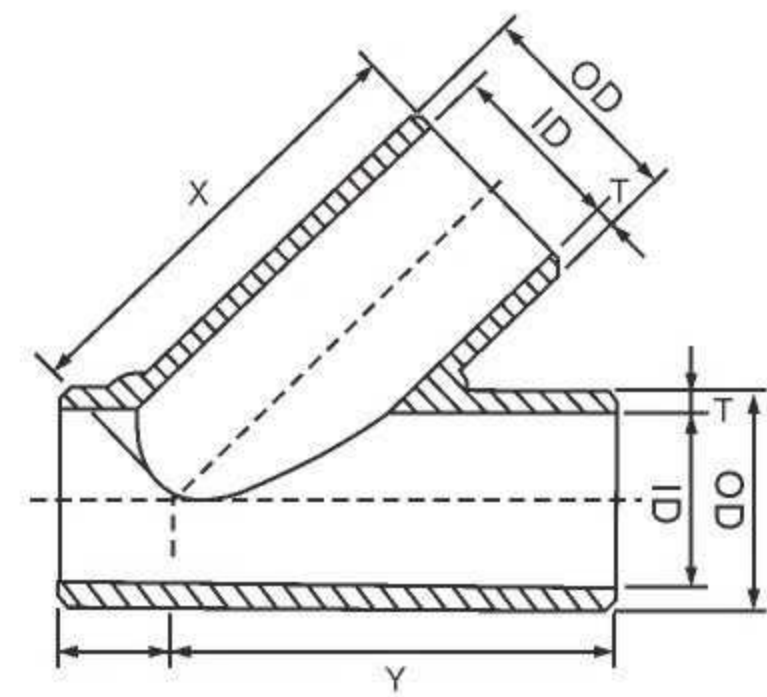
公称尺寸 Nominal Size		端部外径 OD At Bevel	中心至端面 Center To End
DN	NPS	D <sub>1</sub> ×D <sub>2</sub>	H
20×15	3/4×1/2	26.7×21.3	38
20×10	3/4×3/8	26.7×17.1	
25×20	1×3/4	33.4×26.7	51
25×15	1×1/2	33.4×21.3	
32×25	1¼×1	42.2×33.4	51
32×20	1¼×3/4	42.2×26.7	
32×15	1¼×1/2	42.2×21.3	64
40×32	1½×1¼	48.3×42.2	
40×25	1½×1	48.3×33.4	64
40×20	1½×3/4	48.3×26.7	
40×15	1½×1/2	48.3×21.3	76
50×40	2×1½	60.3×48.3	
50×32	2×1¼	60.3×42.2	76
50×25	2×1	60.3×33.4	
50×20	2×3/4	60.3×26.7	89
65×50	2½×2	73.0×60.3	
65×40	2½×1½	73.0×48.3	89
65×32	2½×1¼	73.0×42.2	
65×25	2½×1	73.0×33.4	89
80×65	3×2½	88.9×73.0	
80×50	3×2	88.9×60.3	89
80×32	3×1½	88.9×48.3	
80×25	3×2¼	88.9×42.2	102
90×80	3½×3	101.6×88.9	
90×65	3½×2½	101.6×73.0	102
90×50	3½×2	101.6×60.3	
90×40	3½×1½	101.6×48.3	102
90×32	3½×1¼	101.6×42.2	
100×90	4×3½	114.3×101.6	102
100×80	4×3	114.3×88.9	
100×65	4×2½	114.3×73.0	102
100×50	4×2	114.3×60.3	
100×40	4×1½	114.3×48.3	127
125×100	5×4	141.3×114.3	
125×90	5×3½	141.3×101.6	127
125×80	5×3	141.3×88.9	
125×65	5×2½	141.3×73.0	127
125×50	5×2	141.3×60.3	

公称尺寸 Nominal Size		端部外径 OD At Bevel	中心至端面 Center To End
DN	NPS	D <sub>1</sub> ×D <sub>2</sub>	H
150×125	6×5	168.3×141.3	140
150×100	6×4	168.3×114.3	
150×90	6×3½	168.3×101.6	140
150×80	6×3	168.3×88.9	
150×65	6×2½	168.3×73.0	152
200×150	8×6	219.1×168.3	
200×125	8×5	219.1×141.3	152
200×100	8×4	219.1×114.3	
200×90	8×3½	219.1×101.6	178
250×200	10×8	273.0×219.1	
250×150	10×6	273.0×168.3	178
250×125	10×5	273.0×141.3	
250×100	10×4	273.0×114.3	203
300×250	12×10	323.8×273.0	
300×200	12×8	323.8×219.1	203
300×150	12×6	323.8×168.3	
300×125	12×5	323.8×141.3	330
350×300	14×12	355.6×323.8	
350×250	14×10	355.6×273.0	330
350×200	14×8	355.6×219.1	
350×150	14×6	355.6×168.3	356
400×350	16×14	406.4×355.6	
400×300	16×12	406.4×323.8	356
400×250	16×10	406.4×273.0	
400×200	16×8	406.4×219.1	381
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	381
450×250	18×10	457.0×273.0	
450×200	18×8	457.0×219.1	508
500×450	20×18	508.0×457.0	
500×400	20×16	508.0×406.4	508
500×350	20×14	508.0×355.6	
500×300	20×12	508.0×323.8	508
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	508
550×350	22×14	559.0×355.6	
550×300	22×12	559.0×323.8	

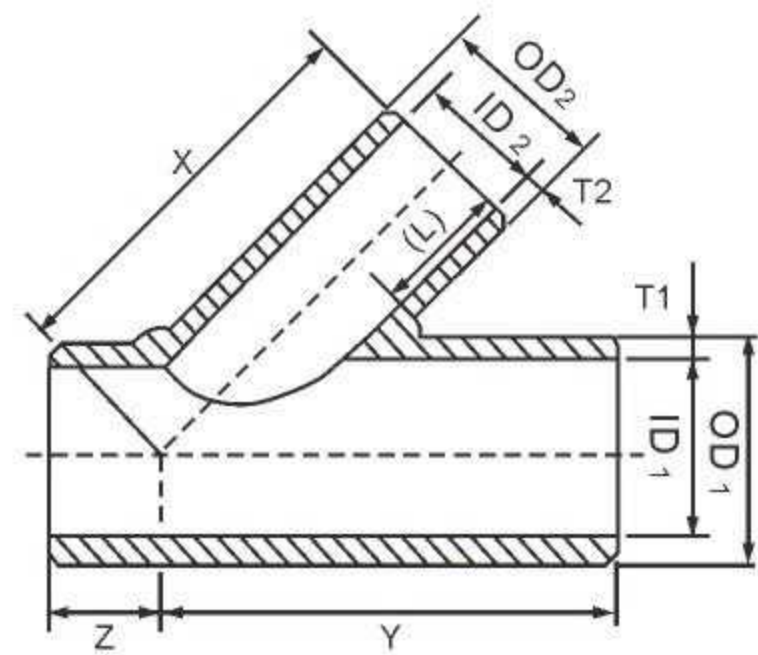
公称尺寸 Nominal Size		端部外径 OD At Bevel	中心至端面 Center To End
DN	NPS	D <sub>1</sub> ×D <sub>2</sub>	H
600×550	24×22	610.0×559.0	508
600×500	24×20	610.0×508.0	
600×450	24×18	610.0×457.0	508
600×400	24×16	610.0×406.4	
600×350	24×14	610.0×355.6	610
600×300	24×12	610.0×323.8	
650×600	26×24	660.0×610.0	610
650×550	26×22	660.0×559.0	
650×500	26×20	660.0×508.0	610
650×450	26×18	660.0×457.0	
650×400	26×16	660.0×406.4	610
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	610
700×500	28×20	711.0×508.0	
700×450	28×18	711.0×457.0	610
700×400	28×16	711.0×406.4	
700×350	28×14	711.0×355.6	610
750×700	30×28	762.0×711.0	
750×650	30×26	762.0×660.0	610
750×600	30×24	762.0×610.0	
750×550	30×22	762.0×559.0	610
750×500	30×20	762.0×508.0	
750×450	30×18	762.0×457.0	610
750×400	30×16	762.0×406.4	
750×350	30×14	762.0×355.6	610
800×750	32×30	813.0×762.0	
800×700	32×28	813.0×711.0	610
800×650	32×26	813.0×660.0	
800×600	32×24	813.0×610.0	610
800×550	32×22	813.0×559.0	
800×500	32×20	813.0×508.0	610
850×800	34×32	864.0×813.0	
850×750	34×30	864.0×762.0	610
850×700	34×28	864.0×711.0	
850×650	34×26	864.0×660.0	610
850×600	34×24	864.0×610.0	
850×550	34×22	864.0×559.0	610
900×850	36×34	914.0×864.0	
900×800	36×32	914.0×813.0	610
900×750	36×30	914.0×762.0	
900×700	36×28	914.0×711.0	610
900×650	36×26	914.0×660.0	
900×600	36×24	914.0×610.0	610
900×550	36×22	914.0×559.0	

公称尺寸 Nominal Size		端部外径 OD At Bevel	中心至端面 Center To End
DN	NPS	D <sub>1</sub> ×D <sub>2</sub>	H
950×900	38×36	965.0×914.0	610
950×850	38×34	965.0×864.0	
950×800	38×32	965.0×813.0	610
950×750	38×30	965.0×762.0	
950×700	38×28	965.0×711.0	610
950×650	38×26	965.0×660.0	
950×600	38×24	965.0×610.0	610
1000×950	40×38	1016.0×965.0	
1000×900	40×36	1016.0×914.0	610
1000×850	40×34	1016.0×864.0	
1000×800	40×32	1016.0×813.0	610
1000×750	40×30	1016.0×762.0	
1000×700	40×28	1016.0×711.0	610
1050×1000	42×40	1067.0×1016.0	
1050×950	42×38	1067.0×965.0	610
1050×900	42×36	1067.0×914.0	
1050×850	42×34	1067.0×864.0	610
1050×800	42×32	1067.0×813.0	
1050×750	42×30	1067.0×762.0	610
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	610
1100×900	44×36	1118.0×914.0	
1100×850	44×34	1118.0×864.0	610
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	711
1150×950	46×38	1168.0×965.0	
1150×900	46×36	1168.0×914.0	711
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	711
1200×1000	48×40	1219.0×1016.0	
1200×950	48×38	1219.0×965.0	711
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	711
1300×1050	52×42	1321.0×1067.0	
1300×1000	52×40	1321.0×1016.0	711
1400×1300	56×52	1422.0×1321.0	
1400×1200	56×48	1422.0×1219.0	711
1400×1100	56×44	1422.0×1118.0	
1400×1000	56×42	1422.0×1067.0	711
1500×1400	60×56	1524.0×1422.0	
1500×1300	60×52	1524.0×1321.0	711
1500×1200	60×48	1524.0×1219.0	
1500×1100	60×46	1524.0×1168.0	

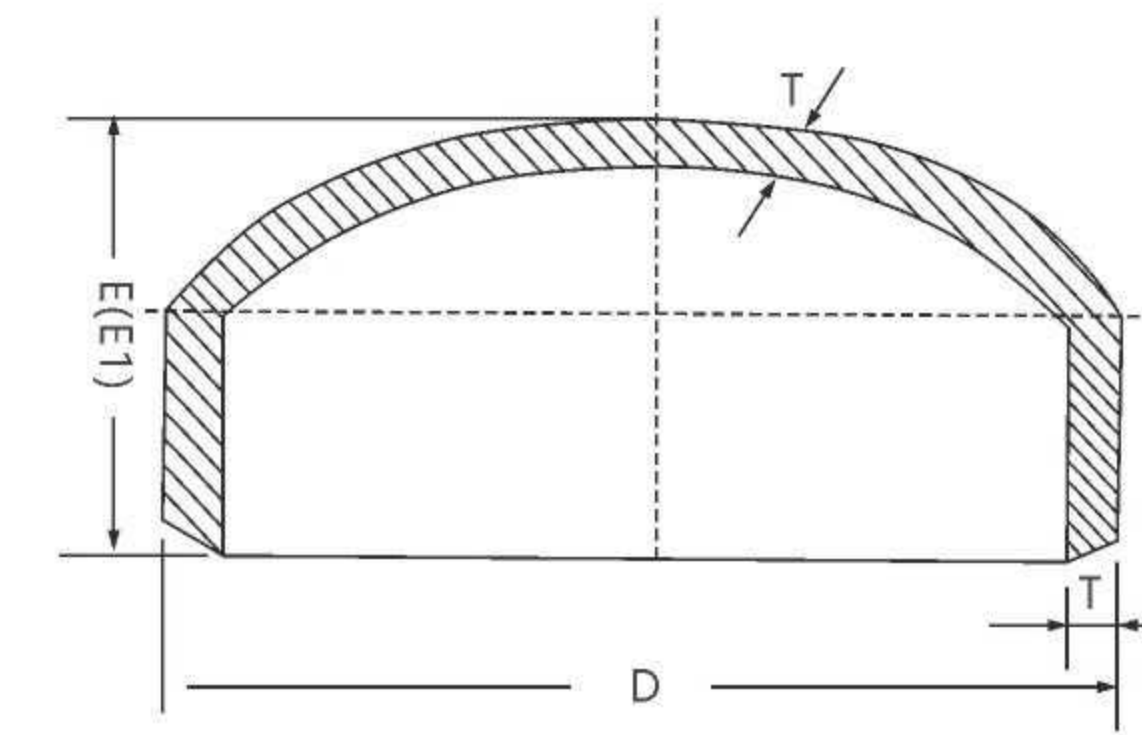
注释(Notes): 1) 除上述标准外, 还可按GB/T 12459、GB/T 13401、GB/T 10752、SH 3408、SH 3409、HG/T 21631、HG/T 21635、SY/T 0510、JIS 2311、JIS 2312、JIS 2313、DL/T 695、EN 10253等标准制造。  
Besides the above mentioned standards, GB/T 12459、GB/T 13401、GB/T 10752、SH 3408、SH 3409、HG/T 21631、HG/T 21635、SY/T 0510、JIS 2311、JIS 2312、JIS 2313、DL/T 695、EN 10253 specifications are also available.  
2) 更大规格的三通、四通, 按采购方与制造商协商尺寸制造, 或按制造商的尺寸供货。  
Larger sizes shall be by agreement between the manufacturer and purchaser or according to manufacturer's dimensions.



对焊等径45°斜三通  
Butt Welding Equal Diameter 45° Oblique Tee



对焊异径45°斜三通  
Butt Welding Different Diameter 45° Oblique Tee



对焊管帽  
Butt Welding Caps

ASME B 16.9

公称尺寸 Nominal Size		端部外径 End Outer Diameter	中心至端面 Center To End	
DN	NPS	OD	X <sub>and</sub> Y	Z
15	1/2	21.3	90	45
20	3/4	26.7	108	45
25	1	33.4	146	45
32	1 1/4	42.2	159	45
40	1 1/2	48.3	178	51
50	2	60.3	203	64
65	2 1/2	73.0	241	64
80	3	88.9	254	76
90	3 1/2	101.6	293	76
100	4	114.3	305	76
125	5	141.3	343	89
150	6	168.3	368	89
200	8	219.1	445	114
250	10	273.0	521	127
300	12	323.8	622	140
350	14	355.6	686	152
400	16	406.4	762	165
450	18	457.0	813	178
500	20	508.0	889	203
550	22	559.0	959	216
600	24	610.0	1029	229
650	26	660.0	1308	267
700	28	711.0	1442	236
750	30	762.0	1524	299
800	32	813.0	1626	311
850	34	864.0	1727	330
900	36	914.0	1829	350

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NPS20 x 14)时,45度夹角处的长度L应等于或大于支管外径OD2

Notes:

1. The X value of the reducing tee is manufactured according to the X value corresponding to the nominal size of the branch pipe, but when the branch pipe diameter reduction exceeds 2 gears (such as NPS20 x 14), the length L at the angle of 45 degrees should be equal Less than or greater than the outer diameter of the branch pipe OD2

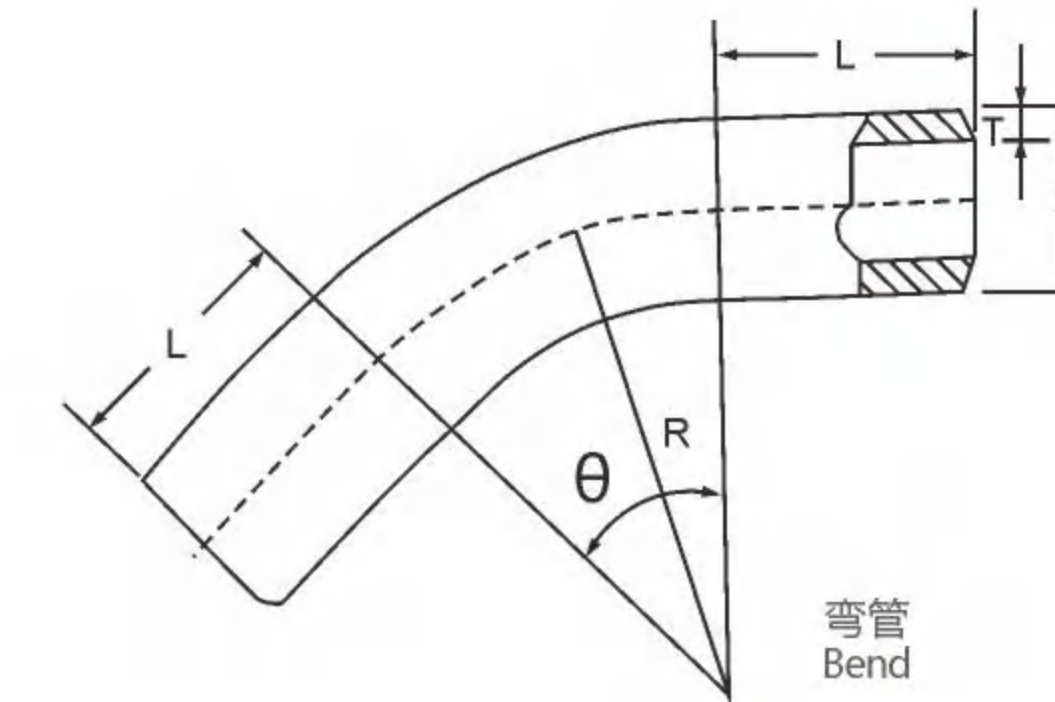
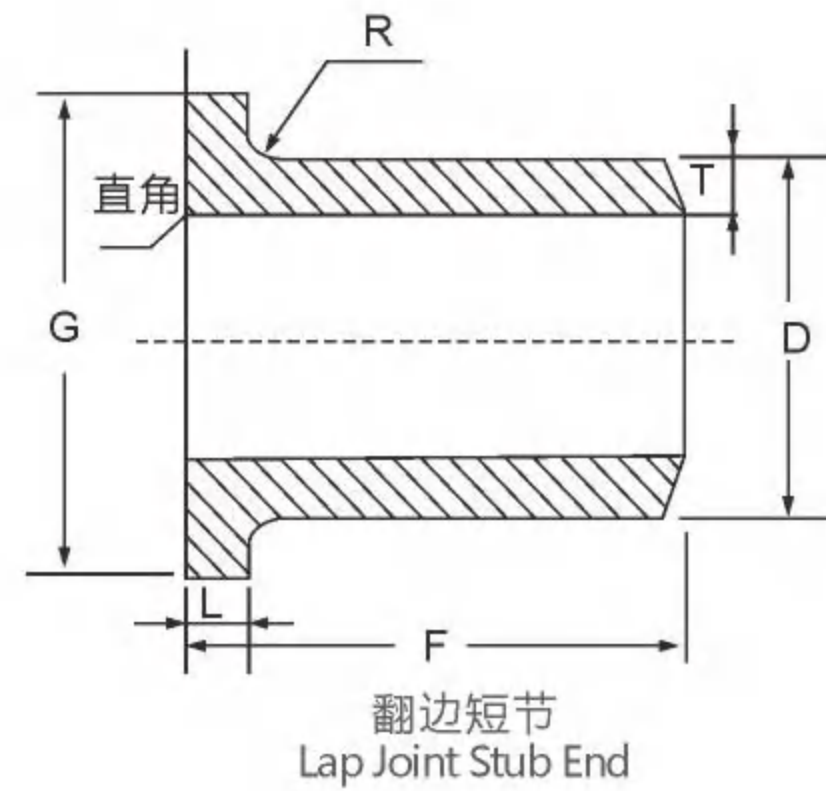
公称尺寸 Nominal Size		端部外径 OD At Bevel	长度 Length		对尺寸E的限制厚度 Restricted Thickness For Dimension E
DN	NPS	D	E	E1	
15	1/2	21.3	25	25	3.73
20	3/4	26.7	25	25	3.91
25	1	33.4	38	38	4.55
32	1 1/4	42.2	38	38	4.85
40	1 1/2	48.3	38	38	5.08
50	2	60.3	38	44	5.54
65	2 1/2	73.0	38	51	7.01
80	3	88.9	51	64	7.62
90	3 1/2	101.6	64	76	8.08
100	4	114.3	64	76	8.56
125	5	141.3	76	89	9.53
150	6	168.3	89	102	10.97
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Note:

1)除上述标准外, 还可按GB/T 12459、GB/T13401、SH3408、SH3409、HG/T 21635、SY/T 0510、DIN 2617等标准制造。Besides the above mentioned standards, GB/T12459、GB/T13401、SH3408、SH3409、HG/T21635、SY/T0510 DIN 2617 specifications are also available.

2)管帽形状为标准椭圆形。The shapes of these caps are ellipsoidal.

3)管帽的长度不大于限制厚度时为E,大于限制厚度E1;当管帽的公称尺寸≥DN650(NPS26)时,长度E按采购方与制造协商的尺寸制造,或按制造商的尺寸供货。Length E applies for thickness not exceeding that given in column "limiting wall thickness for length E",and length E1 applies for thickness greater than that given in column "Limiting wall thickness". For NPS 26 and larger,length E shall be by agreement between the manufacturer and purchaser.



ASME B16.9、GB/T 12459、MSS SP-43

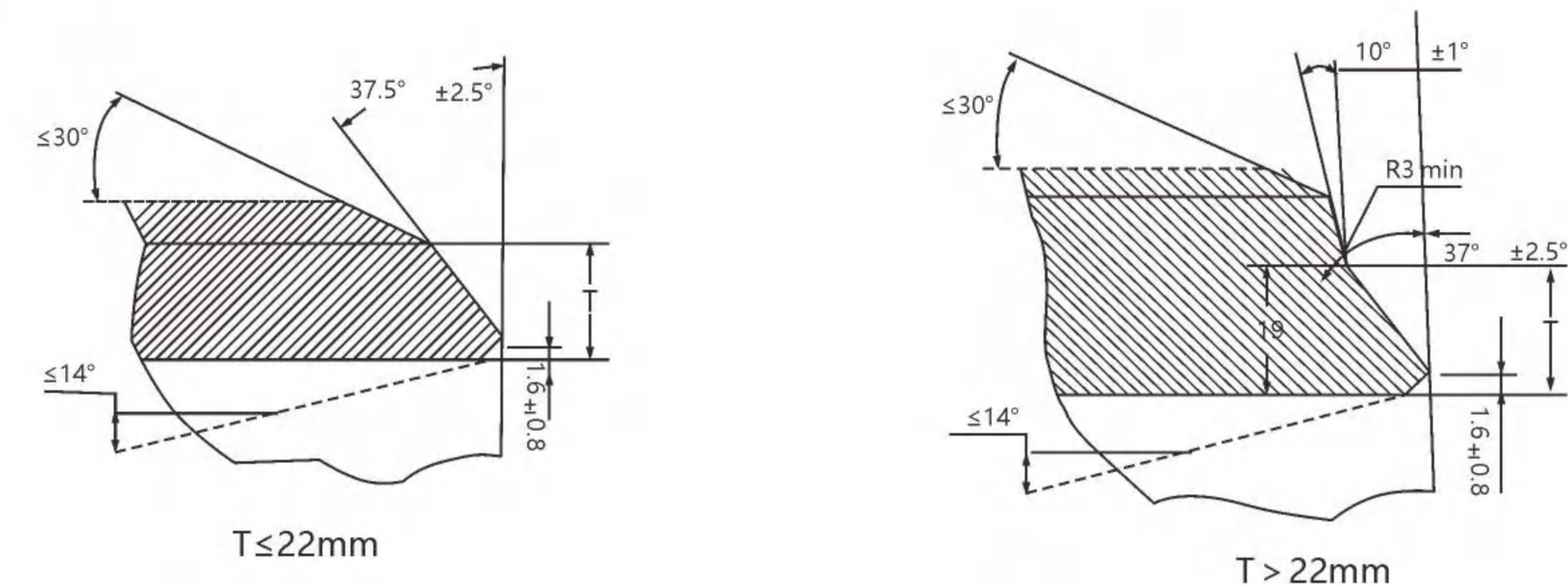
公称尺寸 Nominal Size		端部外径 OD Of Bamel			长度 Length		圆角半径 Radius Of Fillet		搭接直径 Diameter Of Lap
DN	NPS	OD	Max	Min	长型 Long Pattern	短型 Short Pattern	A	B Max	G
15	1/2	21.3	22.8	20.5	76	51	3	0.8	35
20	3/4	26.7	28.1	25.9	76	51	3	0.8	43
25	1	33.4	35.0	32.6	102	51	3	0.8	51
32	1 1/4	42.2	43.6	41.4	102	51	5	0.8	64
40	1 1/2	48.3	49.9	47.5	102	51	6	0.8	73
50	2	60.3	62.4	59.5	152	64	8	0.8	92
65	2 1/2	73.0	75.3	72.2	152	64	8	0.8	105
80	3	88.9	91.3	88.1	152	64	10	0.8	127
90	3 1/2	101.6	104.0	100.8	152	76	10	0.8	140
100	4	114.3	116.7	113.5	152	76	11	0.8	157
125	5	141.3	144.3	140.5	203	76	11	1.6	186
150	6	168.3	171.3	167.5	203	89	13	1.6	216
200	8	219.1	222.1	218.3	203	102	13	1.6	270
250	10	273.0	277.2	272.3	254	127	13	1.6	324
300	12	323.8	328.0	323.1	254	152	13	1.6	381
350	14	355.6	359.9	354.8	305	152	13	1.6	413
400	16	406.4	411.0	405.6	305	152	13	1.6	470
450	18	457.0	462.0	456.0	305	152	13	1.6	533
500	20	508.0	514.0	507.0	305	152	13	1.6	584
550	22	559.0	565.0	558.0	305	152	13	1.6	641
600	24	610.0	616.0	609.0	305	152	13	1.6	692

注释Note:

- 1) 搭接厚度t应不小于管子的公称壁厚。The lap thickness t shall not be less than the nominal pipe wall thickness.
- 2) 当短型翻边短节用于PN50和PN110(300级和600级)的较大法兰以及大于等于PN150(900磅级)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磅级)的较大法兰时,为了避免法兰可能遮盖焊缝,可能需要增加直段的长度。长度增加量由制造商与采购方双方协商。  
When short pattern stub ends are used with the larger flanges in Classes 300 and 600, and with most sizes in classes 900 and higher, and when long pattern stub ends are used with larger flanges in classes 1500 and 2500, it may be necessary to increase the length of the stub ends in order to avoid covering the weld with the flange. Such increases in length shall be a matter of agreement between the manufacturer and purchaser.
- 3) 当采用榫槽面和凹凸密封面时,必须增加搭接厚度;增加厚度应附加(不包括)在基本长度F上。  
When special facings such as tongue and groove, male and female are employed, additional lap thickness must be provided and such additional thickness shall be in addition to (not included in) the base length F.
- 4) A型圆角半径R与GB/T 9118.1~9118.2或ASME B16.5中的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。  
The dimensions conform to the radius (type A) established for lap joint flanges in GB/T 9118.1~9118.2 or ASME B 16.5. The radius of type B is only employed in MSS SP-43, with short pattern length F.
- 5) 搭接直径G与ASME B16.5中表示的标准机械加工面相符合,搭接接口的背面应进行机加工,使其与安装表面一致;当采用环连接密封面时,使用ASME B16.5中的尺寸K。  
The dimension G shall conform to standard machined facings shown in ASME B 16.5. The back face of lap shall be machined to conform to the surface on which it seats. Where ring joint facings are to be applied, use dimension K as given in ASME B16.5.

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 B16.49 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	$R \geq 3D$ (D为管子外径) $R=3D, 4D, 5D, 6D, 7D, 8D, 9D, 10D$ $R \geq 3D$ (D is outside diameter of pipe)
弯曲角度 Bend Angle	按设计文件规定或客户要求,通常为 $15^\circ, 30^\circ, 45^\circ, 60^\circ, 90^\circ, 135^\circ, 180^\circ$ The angle is according to the specification of design documents or as per customers demand, $15^\circ, 30^\circ, 45^\circ, 60^\circ, 90^\circ, 135^\circ, 180^\circ$ are the most popular ones.
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~1500mm Per standard or specified length in the design documentation, or both straight lengths are 500mm~1500mm
外径OD Outside Diameter	$D \leq 1220\text{mm}$ ,按客户要求 $D \leq 1220\text{mm}$ , as per customers demand
壁厚T Wall Thickness	按设计文件规定, $T \leq 120\text{mm}$ According to the specification of design documentation $T \leq 120\text{mm}$
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;或按客户要求。 According to bevel ends of BW fittings or according to the specification of design documents or as per customers requirement

对焊管件端部坡口形式  
Bevel Ends Of BW Fittings

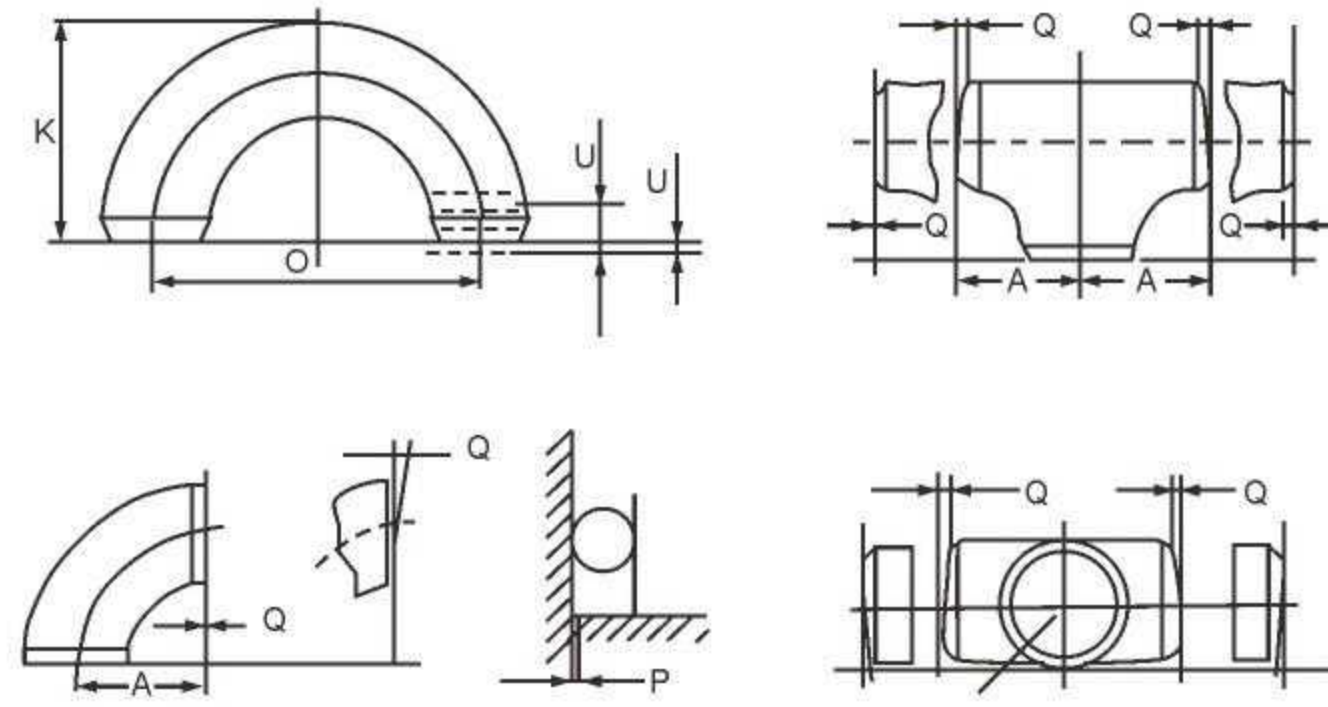


注释Note:

- 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。  
Weld bevel shown is for illustration only, if specially required, the type specified in the purchasing document shall be applied.

**TOLERANCE FOR  
PIPE FITTINGS**

对焊管件的公差



形位公差  
Geometric Tolerance

单位: mm

公称尺寸 Nominal Size		O	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

尺寸公差  
Dimensional Tolerance

单位: mm

公称尺寸 Nominal Size		所有管件 All Fittings		45° 90° 弯头、三通 四通 45° 90° Elbow, Tee Stone	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	D	ID	A, B C, M	A, B	O	K	U	E, E1	H, F	G	R	T
15-65	1/2-2½	+1.6 -0.8	±0.8	±2	±3	±6	±6	±1	±3	±2	0 -1	0 -1	+1.6 0
80-90	3-3½	±1.6	±1.6	±2	±3	±6	±6	±1	±3	±2	0 -1	0 -1	+1.6 0
100	4	±1.6	±1.6	±2	±3	±6	±6	±1	±3	±2	0 -1	0 -1	+1.6 0
125-200	5-8	+2.3 -1.6	±1.6	±2	±3	±6	±6	±1	±6	±2	0 -1	0 -1	+1.6 0
250-450	10-18	+4.0 -3.2	±3.2	±2	±3	±10	±6	±2	±6	±2	0 -2	0 -2	+3.2 0
500-600	20-24	+6.4 -4.8	±4.8	±2	±3	±10	±6	±2	±6	±2	0 -2	0 -2	+3.2 0
650-750	26-30	+6.4 -4.8	±4.8	±3	±6	-	-	-	±10	±5	-	-	-
800-1200	32-48	+6.4 -4.8	±4.8	±5	±6	-	-	-	±10	±5	-	-	-
1300-1500	52-60	+9.5 -6.4	±6.4	±9.5	-	-	-	-	-	-	-	-	-
1600-1700	64-68	+12 -9.5	±9.5	±12	-	-	-	-	-	-	-	-	-
1800-2000	72-80	+16 -12	±12	±16	-	-	-	-	-	-	-	-	-

注释Note:

1)圆度为正负偏差绝对值之和。

Roundness is the sum of absolute values of plus and minus tolerance.

2)端部内径和公称壁厚由采购方指定。

The inside diameter and the nominal wall thickness shall be specified by the purchaser.

3)如果采购方未规定壁厚公差,则适用87.5%的最小壁厚。

The minimum wall thickness is 87.5% of the nominal wall thickness,except otherwise specified in the purchase order.

**FLANGE  
SERIES**

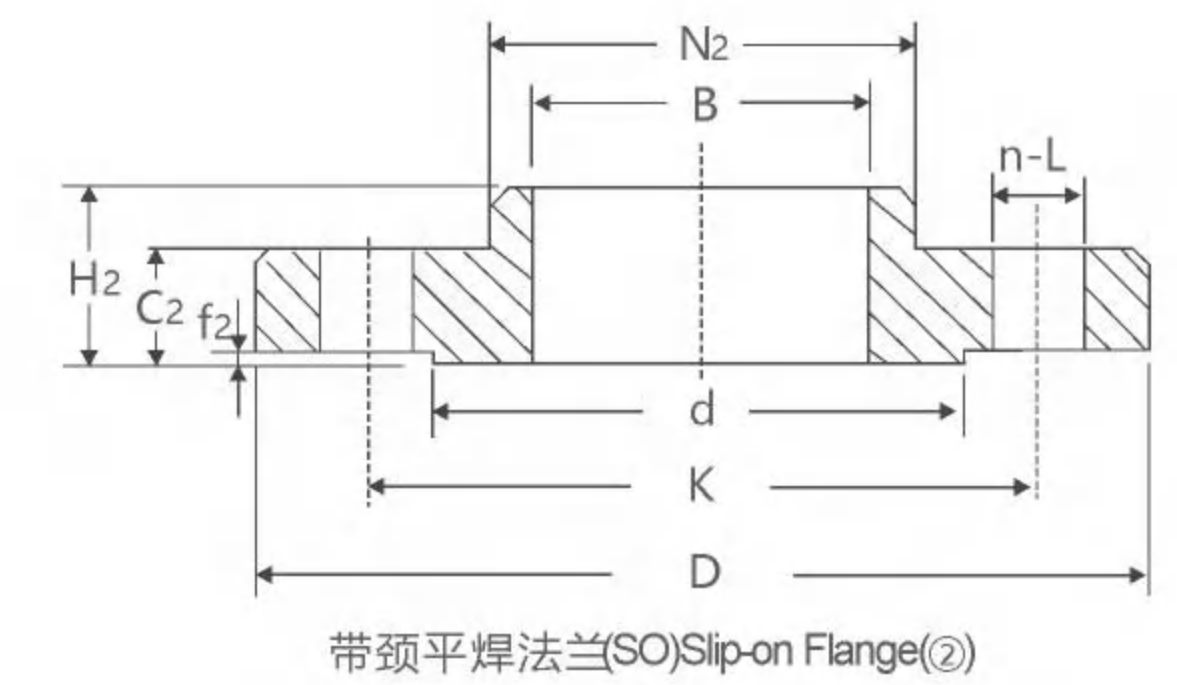
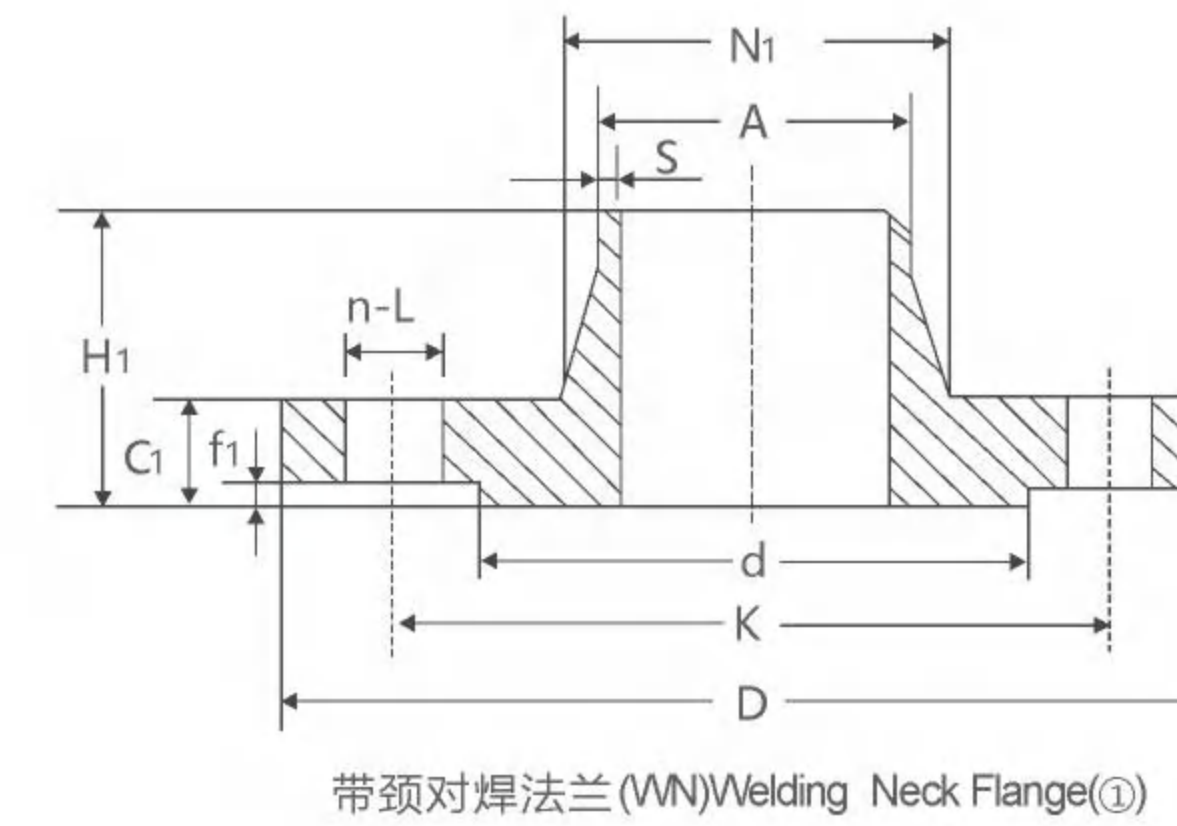
法兰系列  
.....



产品名称 Products Description:

带颈对焊法兰, 带颈平焊法兰, 承插焊法兰, 螺纹法兰, 法兰盖, 8字盲板以及特殊锻造产品  
Welding Neck, Slip on, Socket Welding, Threaded, Blind, Spectacle Blind, and Special Forged Products.

法兰类型 Type Of Flange	密封面形式 Type Of Sealing Surface	压力等级 Pressure Class(Mpa)	制造标准 Manufacturing Standards
 板式平焊法兰 (PL) Plate Flange	突面(RF)	0.25-2.5	可采用 GB/T9112-9124 HG20592-20635 SH3406 ANSI B16.5 JIS B2220 ASME B16.47 等标准制造
	全平面(FF)	0.25-1.6	
 带颈平焊法兰 (SO) Slip-on Flange	突面(RF)	0.6-0.4	
	凹凸面(MFM)	1.0-4.0	
	榫槽面 (TG)	0.6-1.6	
 带颈对焊法兰 (WN) Welding Neck Flange	全平面 (FF)	1.0-25.0	
	突面 (RF)	1.0-16.0	
	凹凸面 (MFM)	1.0-16.0	
	榫槽面 (TG)	6.3-25.0	
 承插焊法兰 (SW) Socket Welding Flange	连环界面 (RJ)	1.0-1.6	
	全平面 (FF)	1.0-10.0	
	突面 (RF)	1.0-10.0	
 螺纹法兰 (THD) Threaded Flange	凹凸面 (MFM)	1.0-10.0	
	榫槽面 (TG)	0.6-0.4	
 对焊环松套法兰 (LF/SE) Butt Welding Ring Loose Flange	突面 (RF)	0.6-1.6	
	全平面 (FF)	0.6-4.0	
 平焊环松套法兰 (RJ/RJ) Flat Welding Ring Loose Flange	突面 (RF)	1.6-1.6	
	凹凸面 (MFM)	1.0-1.6	
	榫槽面 (TG)	1.0-1.6	
 法兰盖 (BL) Blind Flange	突面 (RF)	0.25-0.25	
	凹凸面 (MFM)	1.0-16.0	
	榫槽面 (TG)	1.0-16.0	
	连环界面 (RJ)	6.3-25.0	
	全平面 (FF)	0.25-1.6	
 衬里法兰盖 (BL(S)) Lining Blind Flange	突面 (RF)	0.6-4.0	
	凹凸面 (MFM)	1.0-4.0	
	榫槽面 (TG)	1.0-4.0	



钢制法兰(美洲体系)  
Class 150 (PN2.0Mpa) American System Flange Class 150(PN2.0Mpa)

公称直径 Nominal Diameter		钢管 外径 Hub Diam. Top	法兰 外径 O. D. Of Flange	突台 直径 Raised Face Diam.	螺栓 中心 圆直径 Diam Of Bolt Circle	螺栓孔 直径 Diam Of Bolt Holes	螺栓孔 数量 No. of Bolt Holes	螺栓 承插 直径 Diam. Of Bolt (Inch)	法兰 厚度 Thickness Of Flange	颈部 直径 Diam. Of Hub	法兰高度 Length Through Hub			法兰近似重量(KG) Approximate Weight Of Flange			
DN	NPS	A	D	d	K	L	n	Th	C1-4	N	H1	H2	H3	W1	W2	W3	W4
15	1/2	21.3	90	35	60.5	16	4	M14	11.5	30	48	16	16	0.65	0.42	0.53	0.43
20	3/4	26.9	100	43	70	16	4	M14	13	38	52	16	16	0.91	0.6	0.73	0.63
25	1	33.7	110	51	79.5	16	4	M14	14.5	49	56	17	17	1.14	0.83	0.89	0.89
(32)	(1 1/4)	42.4	120	63.5	89	16	4	M14	16	59	57	21	21	1.46	1.12	1.17	1.2
40	1 1/2	48.3	130	73	98.5	16	4	M14	17.5	65	62	22	22	1.86	1.43	1.48	1.58
50	2	60.3	150	92	120.5	18	4	M16	19.5	78	64	25	25	2.27	2.07	2.1	2.39
(65)	(2 1/2)	76.1	180	105	139.5	18	4	M16	22.5	90	70	29	29	4.45	3.53	3.56	4.07
80	3	88.9	190	127	152.5	18	4	M16	24	108	70	30	30	5.22	4.01	3.96	4.92
(90)	(3 1/2)	101.6	216	140	178	18	8	M16	24	122	71	-	32	5.45	-	4.99	5.9
100	4	114.3	230	157.5	190.5	18	8	M16	24	135	76	33	33	7.49	5.4	5.57	7.13
125	(5)	139.7	255	186	216	22	8	M20	24	164	89	36	36	9.53	6.29	6.33	9.31
(150)	6	168.3	280	216	241.5	22	8	M20	25.5	192	89	40	40	11.8	7.82	7.67	11.7
200	8	219.1	345	270	298.5	22	8	M20	29	246	102	44	45	19.17	12.75	12.67	20.46
250	10	273	405	324	362	26	12	M24	30.5	305	102	49	49	25.67	16.78	16.56	29.19
300	12	323.9	485	381	432	26	12	M24	32	365	114	56	56	39.9	26.91	27.2	44.11
350	14	355.6	535	413	476	29.5	12	M27	35	400	127	57	79	53.3	35.24	39.29	58.83
400	16	406.4	600	470	540	29.5	16	M27	37	457	127	64	87	68.5	46.46	52	78.19
450	18	457	635	533.5	578	32.5	16	M30	40	505	140	68	97	79.99	49.26	56.21	94.72
500	20	508	700	584	635	32.5	20	M30	43	559	145	73	103	101	62.94	73.4	123.6
550	22	559	750	641	692	32.5	20	M33	46	610	149	-	-	113.5	-	-	150.7
600	24	610	816	692	749.5	32.5	20	M33	48	664	152	83	111	139	88.11	99.83	187.1

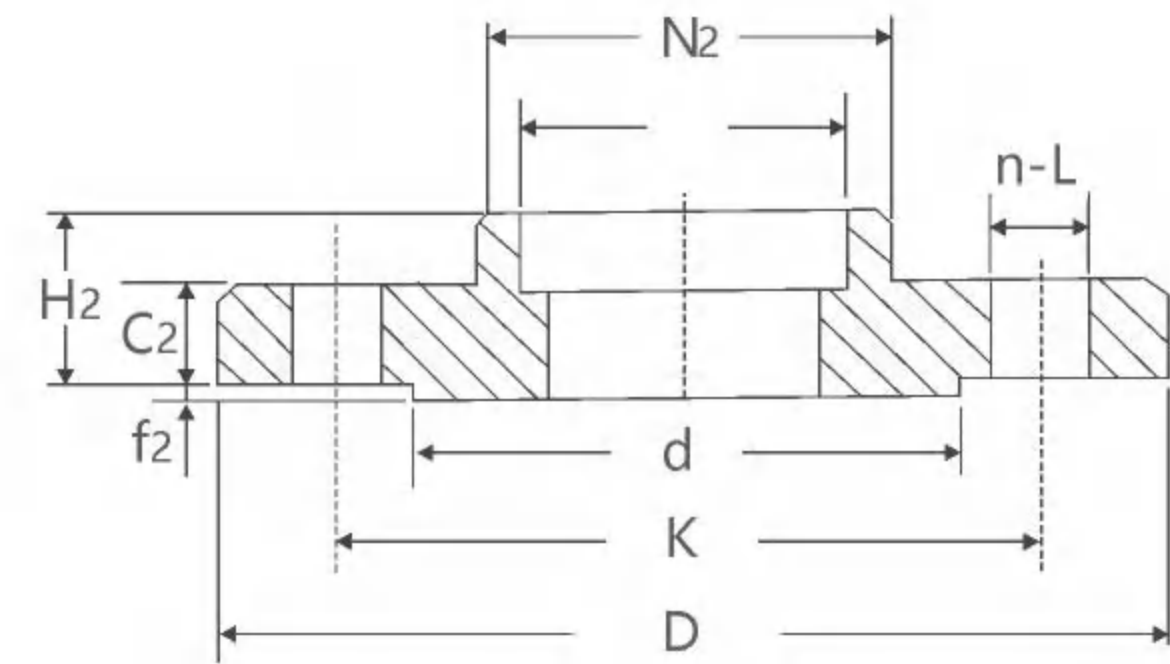
注释Note:

- 1) ①、带颈对焊法兰WN; ②、带颈平焊法兰SO、螺纹法兰THD、承插法兰SW; ③、活套法兰LJ; ④、法兰盖BL。  
①. Welding Neck Flange (WN); ②. Slip-on Flange (SO), Threaded Flange (THD), Socket Welding (SW);  
③. Lap Joint Flange (LJ); ④. Blind Flange BL.

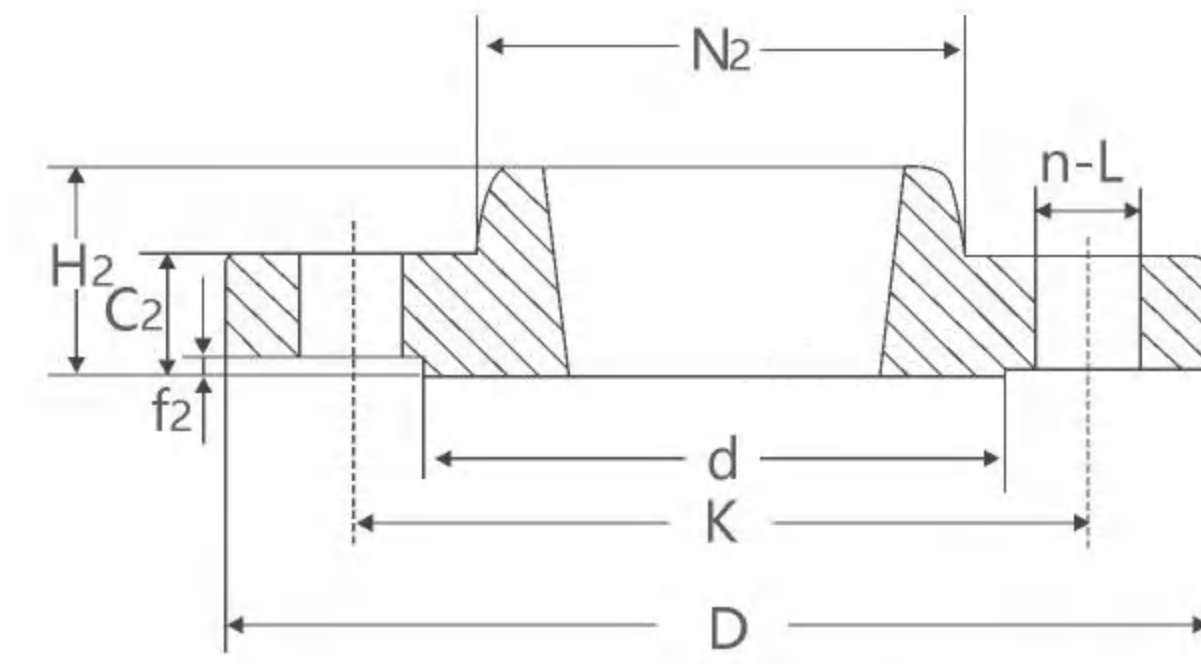
2) 可按ASME B16.5、HG20615-20622、ASME B16.36、ASME B16.48、SH3406、GB9112-9124、GB/T2506、GB/T4450等制造标准。  
ASME B16.5、HG20615-20622、ASME B16.36、ASME B16.48、SH3406、GB9112-9124、GB/T2506、GB/T4450 specifications are available.

**STEEL FLANGE  
(AMERICAN SYSTEM)**  
钢制法兰(美洲体系)

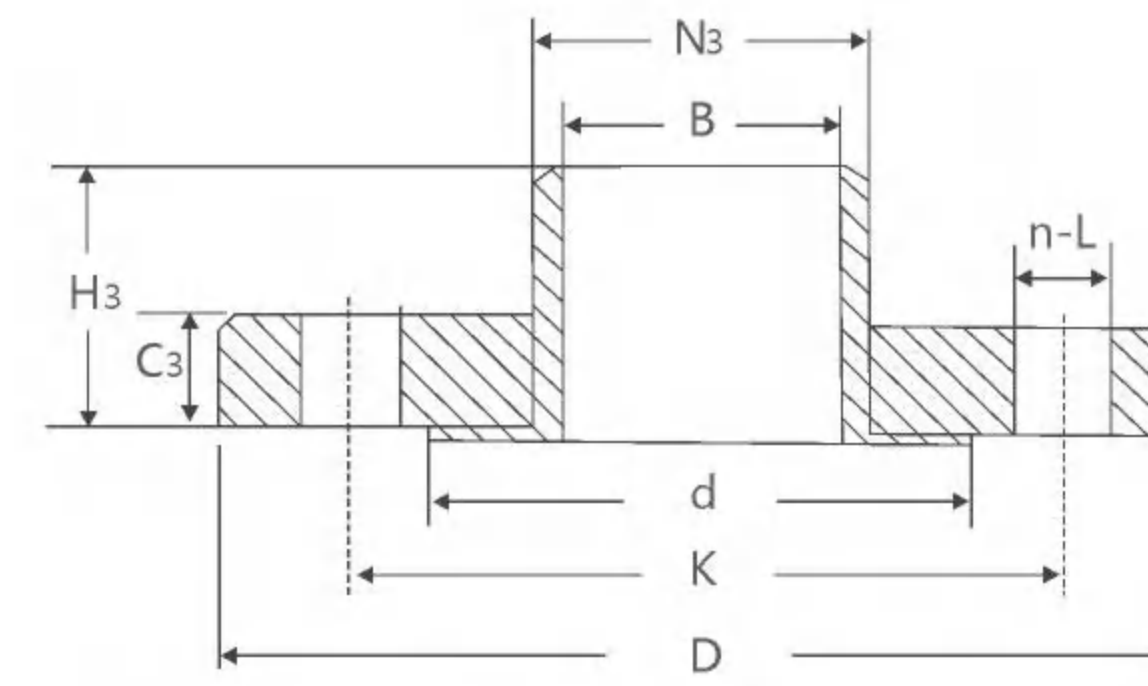
**STEEL FLANGE  
(AMERICAN SYSTEM)**  
钢制法兰(美洲体系)



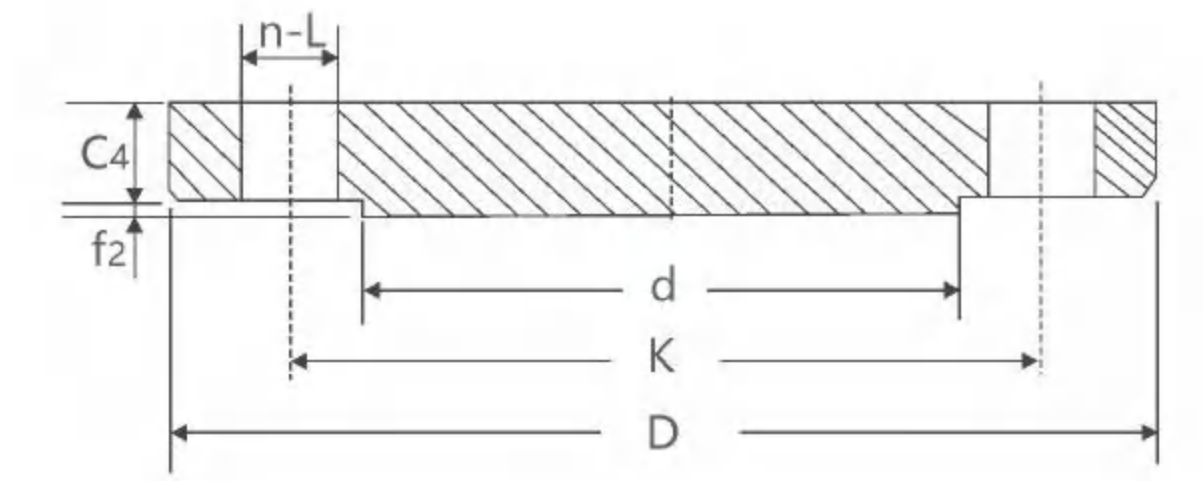
承插焊法兰(SW)Socket Welding Flange(2)



螺纹法兰(THD)Threaded Flange(2)



对焊环松套法兰(LF/SE)Butt Welding Ring Loose Flange(3)



法兰盖(BL)Blind Flange(4)

美洲体系法兰  
Class300(PN5.0Mpa)American System Flange Class300(PN5.0Mpa)

公称直径 Nominal Diameter		钢管 外径 Hub Diam. Top	法兰 外径 O.D.Of Flange	突台 直径 Raised Face Diam.	螺栓 中心 圆直径 Diam Of Bolt Circle	螺栓孔 直径 Diam Of Bolt Holes	螺栓孔 数量 No.of Bolt Holes	螺栓 尺寸 Diam.of Bolt (Inch)	法兰 厚度 Thickness Of Flange	颈部 直径 Diam. Of Hub	法兰高度 Length Through Hub			法兰近似重量(KG) Approximate Weight.of Flange			
DN	NPS	A	D	d	K	L	n	Th	C1-4	N	H1	H2	H3	W1	W2	W3	W4
15	1/2	21.3	95	35	66.5	16	4	M14	14.5	38	52	22	22	0.91	0.64	0.71	0.63
20	3/4	26.9	120	43	82.5	18	4	M16	16	48	57	25	25	1.36	1.16	1.26	1.15
25	1	33.7	125	51	89	18	4	M16	17.5	54	62	27	27	1.82	1.37	1.47	1.4
(32)	(1 1/4)	42.4	135	63.5	98.5	18	4	M16	19.5	64	65	27	27	2.27	1.76	1.86	1.88
40	1 1/2	48.3	155	73	144.5	22	4	M20	21	70	68	30	30	3.18	2.63	2.65	2.65
50	2	60.3	165	92	127	18	8	M16	22.5	84	70	33	33	3.79	2.91	2.98	3.38
(65)	(2 1/2)	76.1	190	105	149	22	8	M20	25.5	100	76	38	38	5.74	4.43	4.47	5.09
80	3	88.9	210	127	168.5	22	8	M20	29	118	79	43	43	8.17	6.16	6.14	7.22
(90)	(3 1/2)	101.6	229	140	184	22	8	M20	30	140	81	45	45	9.1	7.72	7.26	9.53
100	4	114.3	255	157.5	200	22	8	M20	32	146	86	48	48	12.1	9.74	10.05	11.62
(125)	(5)	139.7	280	186	235	22	8	M20	35	178	98	51	51	16.3	12.4	12.56	15.76
150	6	168.3	320	216	270	22	12	M20	37	206	98	52	52	21.29	16.76	16.42	22.16
200	8	219.1	380	270	330	26	12	M24	41.5	260	111	62	62	32.2	24.93	24.42	35.14
250	10	273	445	324	387.5	29.5	16	M27	48	321	117	67	95	47.01	35.59	38.85	54.99
300	12	323.9	520	381	451	32.5	16	M30	51	375	130	73	102	66.64	50.91	55.75	79.96
350	14	355.6	585	413	514.5	32.5	20	M30	54	426	143	76	111	95.69	72.6	81	108.4
400	16	406.4	650	470	571.5	35.5	20	M33	57.5	483	146	83	121	121	91.63	104.9	141.2
450	18	457	710	533.5	628.5	35.5	24	M33	60.5	533	159	89	130	150.2	111.6	128.6	178.8
500	20	508	775	584	686	35.5	24	M33	63.5	587	163	95	140	181.6	136	156	223.3
(550)	(22)	559	840	641	743	42	24	M39	66.5	640	165	-	-	199.4	-	-	268.7
600	24	610	915	692	813	42	24	M39	70	702	168	104	152	265	202.1	235.1	342

注释Note:  
①、带颈对焊法兰WN; ②、带颈平焊法兰SO、螺纹法兰THD、承插法兰SW; ③、活套法兰LJ;④、法兰盖BL。  
①. Welding Neck Flange (WN); ②. Slip-on Flange (SO), Threaded Flange (THD), Socket Welding (SW);  
③. Lap Joint Flange (LJ); ④. Blind Flange BL.

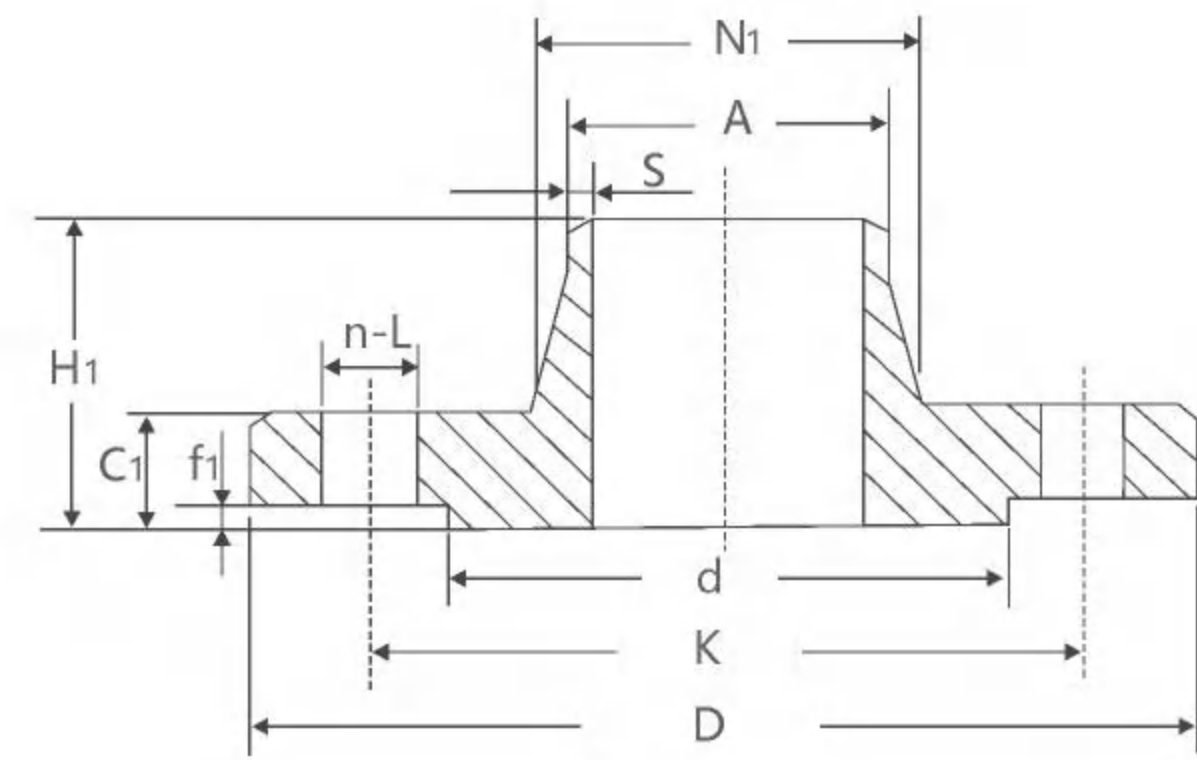
美洲体系法兰  
Class600(PN11.0Mpa)American System Flange Class600(PN11.0Mpa)

公称直径 Nominal Diameter		钢管 外径 Hub Diam. Top	法兰 外径 O.D.Of Flange	突台 直径 Raised Face Diam.	螺栓 中心 圆直径 Diam Of Bolt Circle	螺栓孔 直径 Diam Of Bolt Holes	螺栓孔 数量 No.of Bolt Holes	螺栓 尺寸 Diam.of Bolt (Inch)	法兰 厚度 Thickness Of Flange	颈部 直径 Diam. Of Hub	法兰高度 Length Through Hub			法兰近似重量(KG) Approximate Weight Of Flange			
DN	NPS	A	D	d	K	L	n	Th	C1-4	N	H1	H2	H3	W1	W2	W3	W4
15	1/2	21.3	95	35	66.5	16	4	M14	14.5	38	52	22	22	1.36	0.75	0.76	0.77
20	3/4	26.9	120	43	82.5	18	4	M16	16	48	57	25	25	1.59	1.35	1.38	1.37
25	1	33.7	125	51	89	18	4	M16	17.5	54	62	27	27	1.86	1.58	1.62	1.66
(32)	(1 1/4)	42.4	135	63.5	98.5	18	4	M16	21	64	67	29	29	2.57	2.15	2.23	2.37
40	1 1/2	48.3	155	73	114.5	22	4	M20	22.5	70	70	32	32	3.63	2.99	3.09	3.29
50	2	60.3	165	92	127	18	8	M16	22.5	84	73	37	37	4.54	3.71	3.85	4.24
(65)	(2 1/2)	76.1	190	105	149	22	8	M20	29	100	79	41	41	6.39	5.2	5.50	6.24
80	3	88.9	210	127	168.5	22	8	M20	32	117	83	46	46	8.49	7.13	7.74	8.63
(90)	(3 1/2)	101.6	229	140	184	26	8	M24	35	133	86	49	49	11.8	9.53	9.08	13.17
100	4	114.3	275	157.5	216	26	8	M24	38.5	152	102	54	54	17.46	14.9	15.4	17.74
(125)	(5)	139.7	330	186	267	29.5	8	M27	44.5	189	114	60	60	30.9	24.99	25.1	29.98
150	6	168.3	355	216	292	29.5	12	M27	48	222	117	67	67	33.96	29.96	29.8	37.35
200	8	219.1	420	270	349	32.5	12	M30	55.5	273	133	76	76	52.23	44.87	45.2	60.65
250	10	273	510	324	432	35.5	16	M33	63.5	343	152	86	111	86.02	72.84	80.2	100.2
300	12	323.9	560	381	489	35.5	20	M33	67	400	156	92	117	102.9	85.89	97.1	126.5
350	14	355.6	605	413	527	39	20	M36	70	432	165	94	127	157.5	101.7	116.2	154.3
400	16	406.4	685	470	603	42	20	M39	76.5	495	178	106	140	218.4	144.1	164.2	216.9
450	18	457	754	533.5	654	45	20	M42	83	546	184	117	152	252.0	177.4	218.5	278
500	20	508	815	584	724	45	24	M42	89	610	190	127	165	313.3	225.3	275.7	355.5
(550)	(22)	559	870	641	778	48	24	M45	95	665	197	-	-	376.5	-	-	428.5
600	24	610	940	692	838	51	24	M48	102	718	203	140	184	443.6	314	367.1	537.1

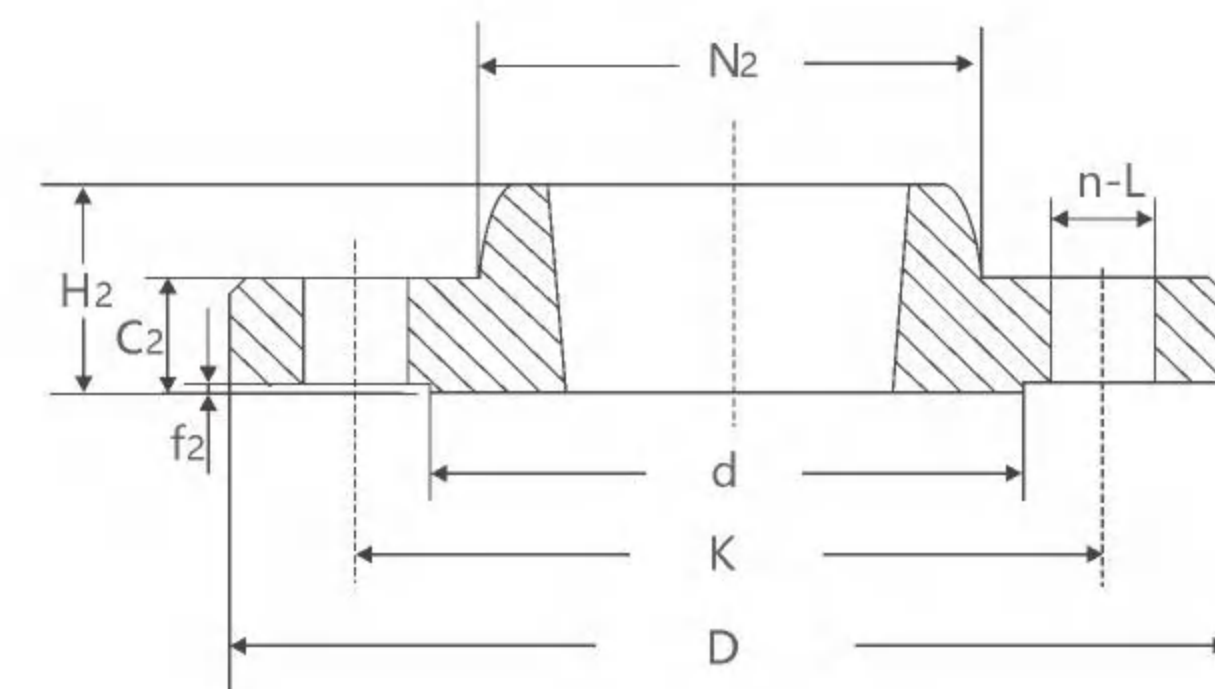
注释Note:  
①、带颈对焊法兰WN; ②、带颈平焊法兰SO、螺纹法兰THD、承插法兰SW; ③、活套法兰LJ;④、法兰盖BL。  
①. Welding Neck Flange (WN); ②. Slip-on Flange (SO), Threaded Flange (THD), Socket Welding (SW);  
③. Lap Joint Flange (LJ); ④. Blind Flange BL.

**STEEL FLANGE  
(AMERICAN SYSTEM)**  
钢制法兰(美洲体系)

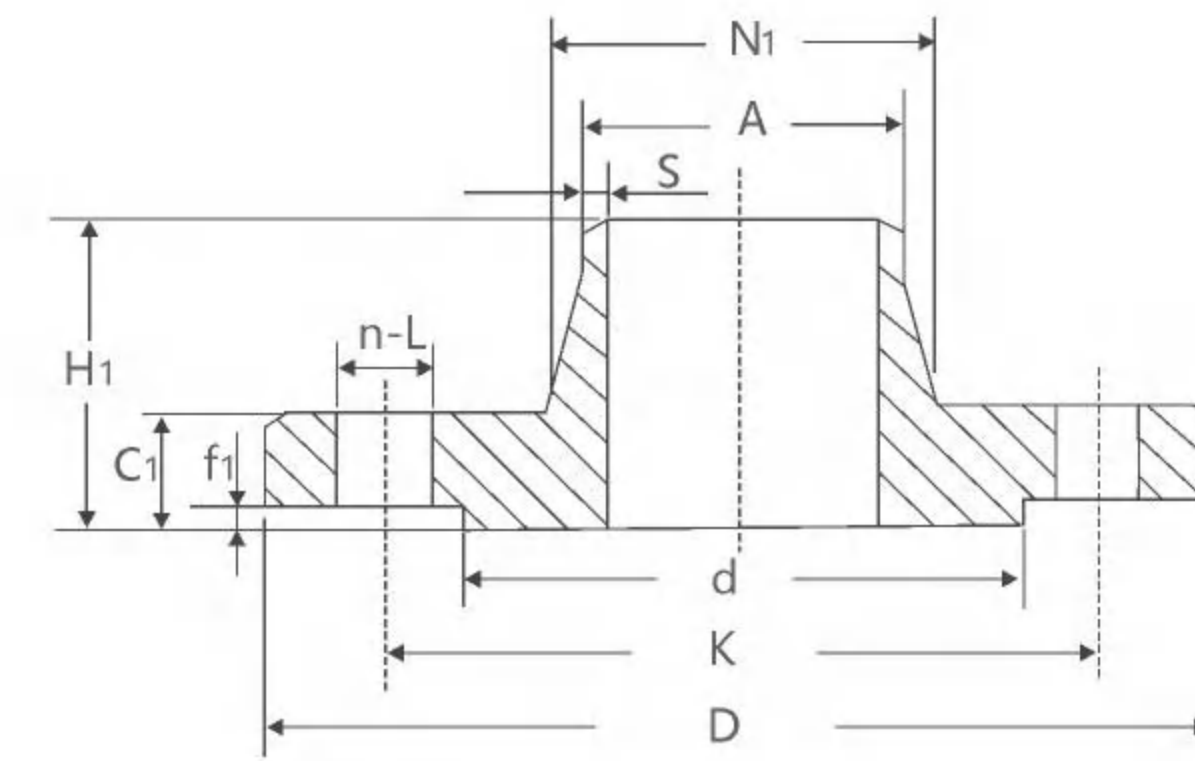
**STEEL FLANGE  
(AMERICAN SYSTEM)**  
钢制法兰(美洲体系)



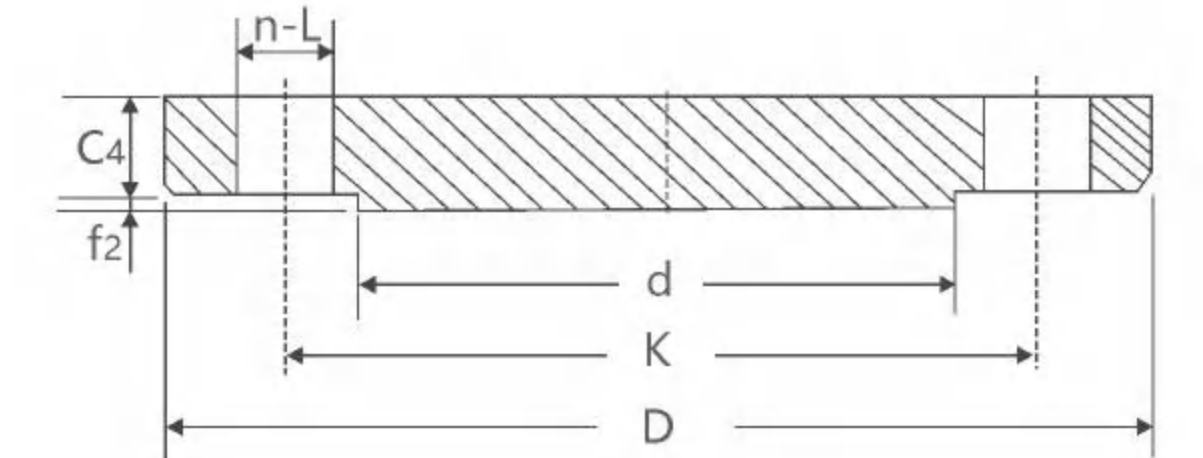
带颈对焊法兰 (WN) Welding Neck Flange(①)



螺纹法兰 (THD) Threaded Flange(②)



带颈对焊法兰 (WN) Welding Neck Flange(①)



法兰盖 (BL) Blind Flange(④)

美洲体系法兰  
Class900(PN15.0Mpa) American System Flange Class900(PN15.0Mpa)

公称直径 Nominal Diameter		钢管 外径 Hub Diam. Top	法兰 外径 O.D. Of Flange	突台 直径 Raised Face Diam.	螺栓 中心 圆直径 Diam Of Bolt Circle	螺栓孔 直径 Diam Of Bolt Holes	螺栓孔 数量 No. of Bolt Holes	螺栓 尺寸 Diam. of Bolt (Inch)	法兰 厚度 Thickness Of Flange	颈部 直径 Diam. Of Hub	法兰高度 Length Through Hub		法兰近似重量(KG) Approximate Weight of Flange		
DN	NPS	A	D	d	K	L	n	Th	C1-4	N	H1	H2	W1	W2	W3
15	1/2	21.3	120	35	82.5	22	4	M20	22.5	38	60	32	3.18	1.75	1.78
20	3/4	26.9	130	43	89	22	4	M20	25.5	44	70	35	3.18	2.35	2.43
25	1	33.7	150	51	101.5	26	4	M24	29	52	73	41	3.86	3.5	3.65
(32)	(1 1/4)	42.4	160	63.5	111	26	4	M24	29	64	73	41	4.54	4.01	4.27
40	1 1/2	48.3	180	73	124	29.5	4	M27	32	70	83	44	6.36	5.52	5.94
50	2	60.3	215	92	165	26	8	M24	38.5	105	102	57	10.9	9.81	10.05
(65)	(2 1/2)	76.1	245	105	190.5	29.5	8	M27	41.5	124	105	64	16.3	13.5	14.05
80	3	88.9	240	127	190.5	26	8	M24	38.6	127	102	54	13.44	11.5	18.09
100	4	114.3	290	157.5	235	32.5	8	M30	44.5	159	114	-	23.2	-	21.83
(125)	(5)	139.7	350	186	279.5	35.5	8	M33	51	190	127	-	39.1	-	37.36
150	6	168.3	380	216	317.5	32.5	12	M30	56	235	140	-	49.9	-	48.63
200	8	219.1	470	270	393.5	39	12	M36	63.5	298	162	-	86.91	-	91
250	10	273	545	324	470	39	16	M36	70	368	184	-	121.7	-	124
300	12	323.9	610	381	533.5	39	20	M36	79.5	419	200	-	168.9	-	174.8
350	14	355.6	640	413	559	42	20	M39	86	451	213	-	255.2	-	208
400	16	406.4	705	470	616	45	20	M42	89	508	216	-	311.0	-	262.8
450	18	457	785	533.5	686	51	20	M48	102	565	229	-	419.5	-	369.6
500	20	508	855	584	749.5	55	20	M52	108	672	248	-	528.5	-	461.0
600	24	610	1040	692	901.5	68	20	M64	140	749	267	-	956.6	-	874.5

注释Note:  
①、带颈对焊法兰WN; ②、承插法兰SW; ③、法兰盖BL。  
①. Welding Neck Flange (WN); ②. Socket Welding Flange (SW); ③. Blind Flange (BL).

美洲体系法兰  
Class1500(PN26.0Mpa) American System Flange Class1500(PN26.0Mpa)

公称直径 Nominal Diameter		钢管 外径 Hub Diam. Top	法兰 外径 O.D. Of Flange	突台 直径 Raised Face Diam.	螺栓 中心 圆直径 Diam Of Bolt Circle	螺栓孔 直径 Diam Of Bolt Holes	螺栓孔 数量 No. of Bolt Holes	螺栓 尺寸 Diam. of Bolt (Inch)	法兰 厚度 Thickness Of Flange	颈部 直径 Diam. Of Hub	法兰高度 Length Through Hub		法兰近似重量(KG) Approximate Weight Of Flange	
DN	NPS	A	D	d	K	L	n	Th	C1-4	N	H1	H2	W1	W4
15	1/2	21.3	120	35	83.5	22	4	M20	22.5	38	60	-	3.18	1.78
20	3/4	26.9	130	43	89	22	4	M20	25.5	44	70	-	3.18	2.43
25	1	33.7	150	51	101.5	26	4	M24	29	52	73	82.5	3.86	3.65
(32)	(1 1/4)	42.4	160	63.5	111	26	4	M24	29	64	73	-	4.54	4.27
40	1 1/2	48.3	180	73	124	29.5	4	M27	32	70	83	89	6.36	5.94
50	2	60.3	215	92	165	26	8	M24	38.5	105	102	102	10.9	10.0
(65)	(2 1/2)	76.1	245	105	190.5	29.5	8	M27	41.5	124	105	105	16.34	14.0
80	3	88.9	265	127	203	32.5	8	M30	48	133	117	117	21.8	19.98
100	4	114.3	310	157.5	241.5	35.5	8	M33	54	162	124	124	31.3	29.71
(125)	(5)	139.7	375	186	292	42	8	M39	73.5	197	155	-	59.9	58.82
150	6	168.3	395	216	317.5	39	12	M36	83	229	171	171	74.5	72.5
200	8	219.1	485	270	393.5	45	12	M42	92	292	213	213	123.9	122.8
250	10	273	585	324	482.5	51	12	M48	108	368	254	254	206.1	211.6
300	12	323.9	675	381	571.5	55	16	M52	124	451	283	283	313.3	317.6
350	14	355.6	750	413	635	60	16	M56	133.5	495	298	298	406.5	422.9
400	16	406.4	825	470	705	68	16	M64	146.5	552	311	311	525.0	557.5
450	18	457	915	533.5	774.5	74	16	M70	162	597	327	327	687.2	761
500	20	508	985	584	832	80	16	M76	178	641	356	356	852.6	967
600	24	610	1170	692	990.5	94	16	M90	203.5	762	406	406	1366.8	1561

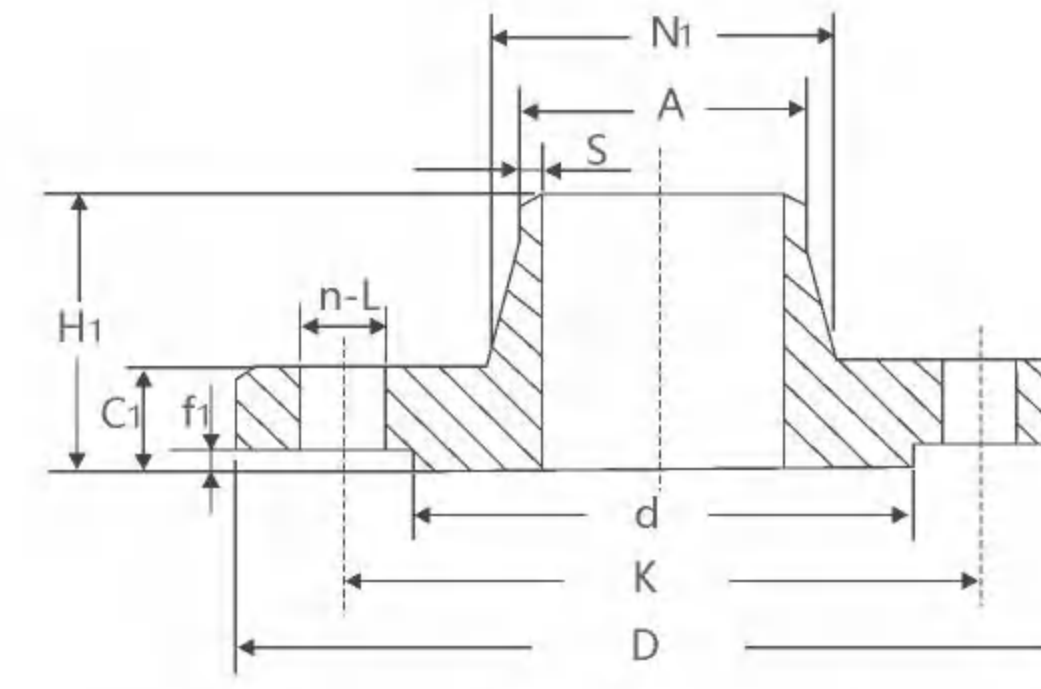
注释Note:  
①、对焊法兰WN; ②、法兰盖BL。  
①. welding Neck Flange (WN); ②. Blind Flange (BL).

**LARGE DIAMETER STEEL FLANGE  
(AMERICAN SYSTEM A SERIES)**  
钢制大直径法兰(美洲体系A系列)

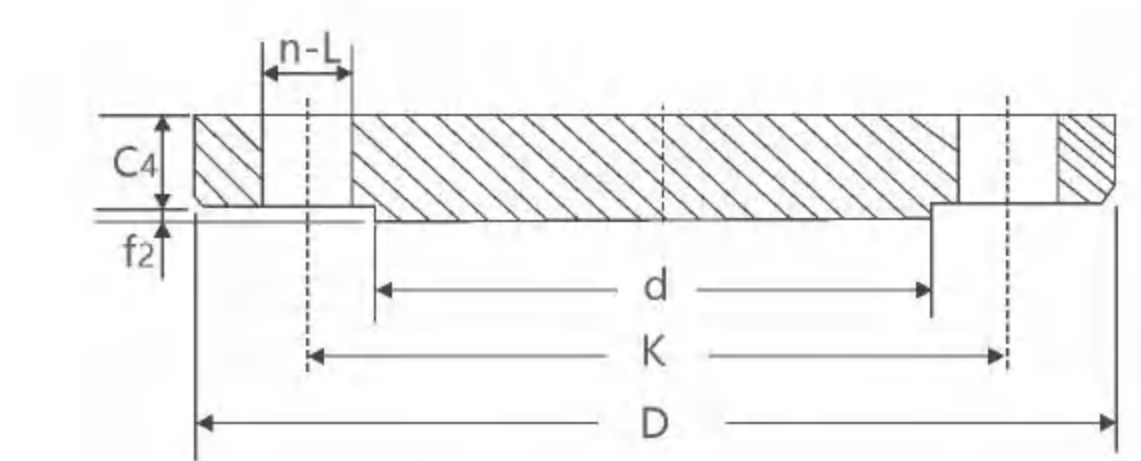
**LARGE DIAMETER STEEL FLANGE  
(AMERICAN SYSTEM A SERIES)**  
钢制大直径法兰(美洲体系A系列)

美洲体系大直径法兰  
American System Large Diameter Flange Class150(PN2.0Mpa)ASME B16.47a

公称直径 Nominal Diameter	钢管 外径 Hub Diam. Top	法兰 外径 O.D.Of Flange	突台 直径 Raised Face Diam.	螺栓 中心 圆直径 Diam Of Bolt Circle	螺栓孔 直径 Diam Of Bolt Holes	螺栓孔 数量 No.of Bolt Holes	螺栓 尺寸 Diam.of Bolt (Inch)	最小法兰厚度 Minimum thickness Of Flange		颈部 直径 Diam. Of Hub	法兰高度 Length Through Hub	法兰近似重量(KG) Approximate Weight of Flange		
								C <sub>1</sub>	C <sub>2</sub>			N	H	W <sub>1</sub>
DN	NPS	A	D	d	K	L	n	Th	C <sub>1</sub>	C <sub>2</sub>	N	H	W <sub>1</sub>	W <sub>2</sub>
650	26	660.4	870	749	806.4	1 3/8	24	M33(1 1/4)	66.7	66.7	676	119	-	-
700	28	711.2	925	800	863.6	1 3/8	28	M33(1 1/4)	69.9	69.9	727	124	-	-
750	30	762.0	985	857	914.4	1 3/8	28	M33(1 1/4)	73.1	73.1	781	135	-	-
800	32	812.8	1060	914	977.9	1 5/8	28	M39(1 1/2)	79.4	79.4	832	143	-	-
850	34	863.6	1110	965	1028.7	1 5/8	32	M39(1 1/2)	81.0	81.0	883	148	-	-
900	36	914.4	1170	1022	1085.8	1 5/8	32	M39(1 1/2)	88.9	88.9	933	156	-	-
950	38	965.2	1240	1073	1149.4	1 5/8	32	M39(1 1/2)	85.8	85.8	991	156	-	-
1000	40	1016.0	1290	1124	1200.2	1 5/8	36	M39(1 1/2)	88.9	88.9	1041	162	-	-
1050	42	1066.8	1345	1194	1257.3	1 5/8	36	M39(1 1/2)	95.3	95.3	1092	170	-	-
1100	44	1117.6	1405	1245	1314.4	1 5/8	40	M39(1 1/2)	100.1	100.1	1143	176	-	-
1150	46	1168.4	1455	1295	1365.2	1 5/8	40	M39(1 1/2)	101.6	101.6	1197	184	-	-
1200	48	1219.2	1510	1359	1422.4	1 5/8	44	M39(1 1/2)	106.4	106.4	1248	191	-	-
1250	50	1270.0	1570	1410	1479.6	1 7/8	44	M45(1 3/4)	109.6	109.6	1302	202	-	-
1300	52	1320.8	1625	1461	1536.7	1 7/8	44	M45(1 3/4)	114.3	114.3	1353	208	-	-
1350	54	1371.6	1685	1511	1593.8	1 7/8	44	M45(1 3/4)	119.1	119.1	1403	214	-	-
1400	56	1422.4	1745	1575	1651.0	1 7/8	48	M45(1 3/4)	122.3	122.3	1457	227	-	-
1450	58	1473.2	1805	1626	1708.2	1 7/8	48	M45(1 3/4)	127.0	127.0	1508	233	-	-
1500	60	1524.0	1855	1676	1759.0	1 7/8	52	M45(1 3/4)	130.2	130.2	1559	238	-	-



带颈对焊法兰 (WN) Welding Neck Flange(①)



法兰盖 (BL) Blind Flange(②)

美洲体系大直径法兰  
American System Large Diameter Flange Class300(PN5.0Mpa)ASME B16.47a

公称直径 Nominal Diameter	钢管 外径 Hub Diam. Top	法兰 外径 O.D.Of Flange	突台 直径 Raised Face Diam.	螺栓 中心 圆直径 Diam Of Bolt Circle	螺栓孔 直径 Diam Of Bolt Holes	螺栓孔 数量 No.of Bolt Holes	螺栓 尺寸 Diam.of Bolt (Inch)	最小法兰厚度 Minimum thickness Of Flange		颈部 直径 Diam. Of Hub	法兰高度 Length Through Hub	法兰近似重量(KG) Approximate Weight of Flange		
								C <sub>1</sub>	C <sub>2</sub>			N	H	W <sub>1</sub>
DN	NPS	A	D	d	K	L	n	Th	C <sub>1</sub>	C <sub>2</sub>	N	H	W <sub>1</sub>	W <sub>2</sub>
650	26	660.4	970	749	876.3	1 3/4	28	M42(1 5/8)	77.8	82.6	721	183	-	-
700	28	711.2	1305	800	939.8	1 3/4	28	M42(1 5/8)	84.2	88.9	775	195	-	-
750	30	762.0	1090	857	997.0	1 7/8	28	M45(1 3/4)	90.5	93.7	827	208	-	-
800	32	812.8	1150	914	1054.1	2	28	M48(1 7/8)	96.9	98.5	881	221	-	-
850	34	863.6	1205	965	1104.9	2	28	M48(1 7/8)	100.1	103.2	937	230	-	-
900	36	914.4	1270	1022	1168.4	2 1/8	32	M52(2)	103.2	109.6	991	240	-	-
950	38	965.2	1170	1029	1092.2	1 5/8	32	M39(1 1/2)	106.4	106.4	994	179	-	-
1000	40	1016.0	1240	1086	1155.7	1 3/4	32	M42(1 5/8)	112.8	112.8	1048	192	-	-
1050	42	1066.8	1290	1137	1206.5	1 3/4	32	M42(1 5/8)	117.5	117.5	1099	198	-	-
1100	44	1117.6	1355	1194	1263.6	1 7/8	32	M45(1 3/4)	122.3	122.3	1149	205	-	-
1150	46	1168.4	1415	1245	1320.8	2	28	M48(1 7/8)	127.0	127.0	1203	214	-	-
1200	48	1219.2	1465	1302	1371.6	2	32	M48(1 7/8)	131.8	131.8	1254	222	-	-
1250	50	1270.0	1530	1359	1428.8	2 1/8	32	M52(2)	138.2	138.2	1305	230	-	-
1300	52	1320.8	1580	1410	1479.6	2 1/8	32	M52(2)	142.9	142.9	1356	237	-	-
1350	54	1371.6	1660	1467	1549.4	2 3/8	28	M56(2 1/4)	150.9	150.9	1410	251	-	-
1400	56	1422.4	1710	1518	1600.2	2 3/8	28	M56(2 1/4)	152.4	152.4	1464	259	-	-
1450	58	1473.2	1760	1575	1651.0	2 3/8	32	M56(2 1/4)	157.2	157.2	1514	265	-	-
1500	60	1524.0	1810	1626	1701.8	2 3/8	32	M56(2 1/4)	162.0	162.0	1565	271	-	-

注释Note:  
1)①、对焊法兰WN; ②、法兰盖BL。①、Welding Neck Flange (WN); ②、Blind Flange (BL).  
2)可按HG20623,GB13402,MSS SP44等标准制造。HG20623, GB13402, MSS SP44 Specifications are available.

美洲体系大直径法兰  
American System Large Diameter Flange Class600(PN11.0Mpa)ASME B16.47a

公称直径 Nominal Diameter	钢管 外径 Hub Diam. Top	法兰 外径 O.D.Of Flange	突台 直径 Raised Face Diam.	螺栓 中心 圆直径 Diam Of Bolt Circle	螺栓孔 直径 Diam Of Bolt Holes	螺栓孔 数量 No.of Bolt Holes	螺栓 尺寸 Diam.of Bolt (Inch)	最小法兰厚度 Minimum thickness Of Flange		颈部 直径 Diam. Of Hub	法兰高度 Length Through Hub	法兰近似重量(KG) Approximate Weight of Flange		
								C <sub>1</sub>	C <sub>2</sub>			N	H	W <sub>1</sub>
DN	NPS	A	D	d	K	L	n	Th	C <sub>1</sub>	C <sub>2</sub>	N	H	W <sub>1</sub>	W <sub>2</sub>
650	26	660.4	1015	749	914.4	2	28	M48(1 7/8)	108.0	125.5	748	222	-	-
700	28	711.2	1075	800	965.2	2 1/8	28	M52(2)	111.2	131.8	803	235	-	-
750	30	762.0	1130	857	1022.4	2 1/8	28	M52(2)	114.3	139.7	862	248	-	-
800	32	812.8	1195	914	1079.5	2 3/8	28	M56(2 1/4)	117.5	148	918	260	-	-
850	34	863.6	1245	965	1130.3	2 3/8	28	M56(2 1/4)	120.7	154.0	973	270	-	-
900	36	914.4	1315	1022	1193.8	2 5/8	28	M64(2 1/2)	123.9	162.0	1032	283	-	-
950	38	965.2	1270	1054	1162.0	2 3/8	28	M56(2 1/4)	152.4	155.0	1022	254	-	-
1000	40	1016.0	1320	1111	1212.8	2 3/8	32	M56(2 1/4)	158.8	162.0	1073	264	-	-
1050	42	1066.8	1405	1168	1282.7	2 5/8	28	M64(2 1/2)	168.3	171.5	1127	279	-	-
1100	44	1117.6	1455	1226	1333.5	2 5/8	32	M64(2 1/2)	173.1	177.8	1181	289	-	-
1150	46	1168.4	1510	1276	1390.6	2 5/8	32	M64(2 1/2)	179.4	185.8	1235	300	-	-
1200	48	1219.2	1595	1334	1460.5	3 7/8	32	M70(2 3/4)	189.0	195.3	1289	316	-	-
1250	50	1270.0	1670	1384	1524.0	3 1/8	28	M76(3)	196.9	203.2	1343	329	-	-
1300	52	1320.8	1720	1435	1574.8	3 1/8	32	M76(3)	203.2	209.6	1394	337	-	-
1350	54	1371.6	1780	1492	1632.0	3 1/8	32	M76(3)	209.6	217.5	1448	349	-	-
1400	56	1422.4	1855	1543	1695.4	3 3/8	32	M82(3 1/4)	217.5	225.5	1502	362	-	-
1450	58	1473.2	1905	1600	1746.2	3 3/8	32	M82(3 1/4)	222.3	231.8	1553	370	-	-
1500	60	1524.0	1995	1657	1822.4	3 5/8	28	M90(3 1/2)	233.4	242.9	1610	389	-	-

美洲体系大直径法兰  
American System Large Diameter Flange Class900(PN15.0Mpa)ASME B16.47A

公称直径 Nominal diameter	钢管 外径 Hub Diam. Top	法兰 外径 O.D.Of Flange	突台 直径 Raised Face Diam.	螺栓 中心 圆直径 Diam Of Bolt Circle	螺栓孔 直径 Diam Of Bolt Holes	螺栓孔 数量 No.of Bolt Holes	螺栓 尺寸 Diam.of Bolt (Inch)	最小法兰厚度 Minimum thickness Of Flange		颈部 直径 Diam. Of Hub	法兰高度 Length Through Hub	法兰近似重量(KG) Approximate Weight of Flange		
								C <sub>1</sub>	C <sub>2</sub>			N	H	W <sub>1</sub>
DN	NPS	A	D	d	K	L	n	Th	C <sub>1</sub>	C <sub>2</sub>	N	H	W <sub>1</sub>	W <sub>2</sub>
650	26	660.4	1085	749	952.5	2 1/8	20	M70(2 3/4)	139.7	160.4	775	286	-	-
700	28	711.2	1170	800	1022.4	3 1/8	20	M76(3)	142.9	171.5	832	298	-	-
750	30	762.0	1230	857	1085.8	3 1/8	20	M76(3)	149.3	182.6	889	311	-	-
800	32	812.8	1315	914	1115.7	3 3/8	20	M82(3 1/4)	158.8	193.7	946	330	-	-
850	34	863.6	1395	965	1225.6	3 5/8	20	M90(3 1/2)	165.1	204.8	1006	349	-	-
900	36	914.4	1460	1022	1289.0	3 5/8	20	M90(3 1/2)	171.5	214.4	1064	362	-	-
950	38	965.2	1460	1099	1289.0	3 5/8	20	M90(3 1/2)	190.5	215.9	1073	352	-	-
1000	40	1016.0	1510	1162	1339.8	3 5/8	24	M90(3 1/2)	196.9	223.9	1127	364	-	-
1050	42	1066.8	1560	1213	1390.6	3 5/8	24	M90(3 1/2)	206.4	231.8	1176	371	-	-
1100	44	1117.6	1650	1270	1463.7	3 7/8	24	M95(3 3/4)	214.4	242.9	1235	391	-	-
1150	46	1168.4	1735	1334	1536.7	4 1/8	24	M100(4)	225.5	255.6	1292	411	-	-
1200	48	1219.2	1785	1384	1587.5	4 1/8	24	M100(4)	233.4	263.6	1343	419	-	-



**STEEL LARGE DIAMETER FLANGE  
(AMERICAN SYSTEM B SERIES)**  
钢制大直径法兰(美洲体系B系列)

**STEEL LARGE DIAMETER FLANGE  
(AMERICAN SYSTEM B SERIES)**  
钢制大直径法兰(美洲体系B系列)

美洲体系大直径法兰  
American System Large Diameter Flange Class75(PN1.0Mpa)ASME B16.47B

公称直径 Nominal diameter		钢管 外径 Hub Diam. Top	法兰 外径 O.D.Of Flange	突台 直径 Raised Face Diam.	螺栓 中心 圆直径 Diam Of Bolt Circle	螺栓孔 直径 Diam Of Bolt Holes	螺栓孔 数量 No.of Bolt Holes	螺栓 尺寸 Diam.of Bolt (Inch)	最小法兰厚度 Minimum thickness Of Flange		颈部 直径 Diam. Of Hub	法兰高度 Length Through Hub	法兰近似重量(KG) Approximate Weight Of Flange	
DN	NPS	A	D	d	K	L	n	Th	C <sub>1</sub>	C <sub>2</sub>	N	H	W <sub>1</sub>	W <sub>2</sub>
650	26	661.9	760	705	723.9	3/4	36	M16(5/8)	31.9	31.9	676	57	29	-
700	28	712.7	815	756	774.7	3/4	40	M16(5/8)	31.9	31.9	727	60	31	-
750	30	763.5	865	806	825.5	3/4	44	M16(5/8)	31.9	31.9	778	64	35	-
800	32	814.3	915	857	876.3	3/4	48	M16(5/8)	33.5	35.0	829	68	48	-
850	34	865.1	965	908	927.1	3/4	52	M16(5/8)	33.5	36.6	879	72	50	-
900	36	915.9	1035	965	992.2	7/8	40	M20(3/4)	35.0	40.9	935	84	62	-
950	38	966.7	1085	1016	1043.0	7/8	40	M20(3/4)	36.6	43.0	986	87	70	-
1000	40	1017.5	1135	1067	1093.8	7/8	44	M20(3/4)	36.6	43.0	1037	91	74	-
1050	42	1068.3	1185	1118	1144.6	7/8	48	M20(3/4)	38.2	46.3	1087	94	77	-
1100	44	1119.1	1250	1175	1203.3	1	36	M24(7/8)	41.4	47.7	1140	103	82	-
1150	46	1169.9	1300	1226	1254.1	1	40	M24(7/8)	43.0	49.3	1191	106	105	-
1200	48	1220.7	1355	1276	1304.9	1	44	M24(7/8)	44.6	52.5	1241	110	120	-
1250	50	1271.5	1405	1327	1355.7	1	44	M24(7/8)	46.2	54.1	1294	114	120	-
1300	52	1322.3	1455	1378	1409.7	1	48	M24(7/8)	44.2	55.7	1345	119	120	-
1350	54	1373.1	1510	1429	1460.5	1	48	M24(7/8)	47.8	58.9	1397	124	180	-
1400	56	1423.9	1575	1486	1520.8	1 1/8	40	M27(1)	49.3	60.4	1451	133	180	-
1450	58	1474.7	1625	1537	1571.6	1 1/8	44	M27(1)	50.9	62.0	1502	137	180	-
1500	60	1525.5	1675	1588	1622.4	1 1/8	44	M27(1)	54.1	65.2	1553	143	210	-

美洲体系大直径法兰  
American System Large Diameter Flange Class300(PN5.0Mpa)ASME B16.47B

公称直径 Nominal Diameter		钢管 外径 Hub Diam. Top	法兰 外径 O.D.Of Flange	突台 直径 Raised Face Diam.	螺栓 中心 圆直径 Diam Of Bolt Circle	螺栓孔 直径 Diam Of Bolt Holes	螺栓孔 数量 No.of Bolt Holes	螺栓 尺寸 Diam.of Bolt (Inch)	最小法兰厚度 Minimum thickness Of Flange		颈部 直径 Diam. Of Hub	法兰高度 Length Through Hub	法兰近似重量(KG) Approximate Weight Of Flange	
DN	NPS	A	D	d	K	L	n	Th	C <sub>1</sub>	C <sub>2</sub>	N	H	W <sub>1</sub>	W <sub>2</sub>
650	26	665.2	865	737	803.0	1 3/8	32	M33(1 1/4)	87.4	87.4	702	168	200	-
700	28	716.0	920	787	857.2	1 3/8	36	M33(1 1/4)	87.4	87.4	756	148	210	-
750	30	768.4	990	845	920.8	1 1/2	36	M36(1 3/8)	92.1	92.1	813	156	270	-
800	32	819.2	1055	902	977.9	1 5/8	32	M39(1 1/2)	101.6	101.6	864	167	330	-
850	34	870.0	1110	953	1031.9	1 5/8	36	M39(1 1/2)	101.6	101.6	918	171	360	-
900	36	920.8	1170	1010	1089.0	1 3/4	32	M42(1 5/8)	101.6	101.6	965	179	410	-
950	38	971.6	1220	1060	1139.8	1 3/4	36	M42(1 5/8)	109.6	109.6	1016	165	570	-
1000	40	1022.4	1275	1114	1190.6	1 3/4	40	M42(1 5/8)	114.3	114.3	1067	197	660	-
1050	42	1074.7	1335	1168	1244.6	1 7/8	36	M45(1 3/4)	117.5	117.5	1118	203	720	-
1100	44	1125.5	1385	1219	1259.4	1 7/8	40	M45(1 3/4)	125.5	125.5	1173	213	800	-
1150	46	1176.3	1460	1270	1365.2	2	36	M48(1 7/8)	127.0	128.6	1229	221	970	-
1200	48	1227.1	1510	1327	1416.0	2	40	M48(1 7/8)	127.0	133.4	1278	222	990	-
1250	50	1277.9	1560	1378	1466.8	2	44	M48(1 7/8)	136.6	138.2	1330	233	990	-
1300	52	1328.7	1615	1429	1517.6	2	48	M48(1 7/8)	141.3	142.6	1383	241	990	-
1350	54	1379.5	1675	1480	1578.0	2	48	M56(2 1/4)	145.0	147.7	1435	238	1160	-
1400	56	1430.3	1765	1537	1651.0	2 3/8	36	M56(2 1/4)	152.4	155.4	1494	267	1160	-
1450	58	1481.1	1825	1594	1712.9	2 3/8	40	M56(2 1/4)	152.4	160.4	1548	273	1160	-
1500	60	1557.3	1880	1651	1763.7	2 3/8	40	M56(2 1/4)	149.3	165.1	1599	270	1450	-

美洲体系大直径法兰  
American System Large Diameter Flange Class150(PN2.0Mpa)ASME B16.47B

公称直径 Nominal diameter		钢管 外径 Hub Diam. Top	法兰 外径 O.D.Of Flange	突台 直径 Raised Face Diam.	螺栓 中心 圆直径 Diam Of Bolt Circle	螺栓孔 直径 Diam Of Bolt Holes	螺栓孔 数量 No.of Bolt Holes	螺栓 尺寸 Diam.of Bolt (inch)	最小法兰厚度 Flange thickness		颈部 直径 Diam. Of Hub	法兰高度 Flange height	法兰近似重量(KG) Approximate flange weight (KG)	
DN	NPS	A	D	d	K	L	n	Th	C <sub>1</sub>	C <sub>2</sub>	N	H	W <sub>1</sub>	W <sub>2</sub>
650	26	661.9	785	711	744.5	7/8	36	M20(3/4)	39.8	43.0	684	87	52	-
700	28	712.7	835	762	795.3	7/8	40	M20(3/4)	43.0	46.2	735	94	58	-
750	30	763.5	885	813	846.1	7/8	44	M20(3/4)	43.0	49.3	787	98	65	-
800	32	814.3	940	864	900.1	7/8	48	M20(3/4)	44.6	52.5	840	106	85	-
850	34	865.1	1005	921	957.3	1	40	M24(7/8)	47.7	55.7	892	109	100	-
900	36	915.9	1055	972	1009.6	1	44	M24(7/8)	50.9	57.3	945	116	115	-
950	38	968.2	1124	1022	1070.0	1 1/8	40	M27(1)	52.5	62.0	997	122	135	-
1000	40	1019.0	1175	1080	1120.8	1 1/8	44	M27(1)	54.1	65.2	1049	127	150	-
1050	42	1069.8	1225	1130	1170.6	1 1/8	48	M27(1)	57.3	66.8	1102	132	165	-
1100	44	1120.6	1275	1181	1222.4	1 1/8	52	M27(1)	58.9	70.0	1153	135	200	-
1150	46	1171.4	1340	1235	1284.3	1 1/4	40	M30(1 1/8)	60.4	73.1	1205	143	210	-
1200	48	1222.2	1390	1289	1335.9	1 1/4	44	M30(1 1/8)	63.6	76.3	1257	148	240	-
1250	50	1273.0	1445	1340	1385.9	1 1/4	48	M30(1 1/8)	66.8	79.5	1308	152	240	-
1300	52	1323.8	1495	1391	1436.7	1 1/4	52	M30(1 1/8)	68.4	82.7	1360	156	240	-
1350	54	1374.6	1550	1441	1492.2	1 1/4	56	M30(1 1/8)	70.0	85.8	1413	160	310	-
1400	56	1425.4	1600	1492	1543.0	1 1/4	60	M30(1 1/8)	71.6	89.0	1465	165	310	-
1450	58	1476.2	1675	1543	1611.3	1 3/8	48	M30(1 1/4)	73.1	91.9	1516	173	310	-
1500	60	1527.0	1725	1600	1662.1	1 3/8	52	M30(1 1/4)	74.7	95.4	1570	178	410	-

美洲体系大直径法兰  
American System Large Diameter Flange Class600(PN11.0Mpa)ASME B16.47B

公称直径 Nominal Diameter		钢管 外径 Hub Diam. Top	法兰 外径 O.D.Of Flange	突台 直径 Raised Face Diam.	螺栓 中心 圆直径 Diam Of Bolt Circle	螺栓孔 直径 Diam Of Bolt Holes	螺栓孔 数量 No.of Bolt Holes	螺栓 尺寸 Diam.of Bolt (Inch)	最小法兰厚度 Minimum thickness Of Flange		颈部 直径 Diam. Of Hub	法兰高度 Length Through Hub	法兰近似重量(KG) Approximate Weight Of Flange	
DN	NPS	A	D	d	K	L	n	Th	C <sub>1</sub>	C <sub>2</sub>	N	H	W <sub>1</sub>	W <sub>2</sub>
650	26	660.4	890	727	806.4	1 3/4	28	M42(1 5/8)	111.2	111.3	698	181	-	-
700	28	711.2	950	784	863.6	1 7/8	28	M45(1 3/4)	115.9	125.9	752	190	-	-
750	30	762.0	1020	841	927.1	2	28	M48(1 7/8)	125.5	127.0	806	205	-	-
800	32	812.8	1085	985	984.2	2 1/8	28	M52(2)	130.2	134.9	860	216	-	-
850	34	863.6	1160	953	1054.1	3 3/8	24	M56(2 1/4)	141.3	144.2	914	233	-	-
900	36	914.4	1215	1010	1104.9	2 3/8	28	M56(2 1/4)	146.1	150.9	968	243	-	-

美洲体系大直径法兰  
American System Large Diameter Flange Class900(PN15.0Mpa)ASME B16.47B

公称直径 Nominal Diameter		钢管 外径 Hub Diam. Top	法兰 外径 O.D.Of Flange	突台 直径 Raised Face Diam.	螺栓 中心 圆直径 Diam Of Bolt Circle	螺栓孔 直径 Diam Of Bolt Holes	螺栓孔 数量 No.of Bolt Holes	螺栓 尺寸 Diam.of Bolt (Inch)	最小法兰厚度 Minimum thickness Of Flange		颈部 直径 Diam. Of Hub	法兰高度 Length Through Hub	法兰近似重量(KG) Approximate Weight Of Flange	
DN	NPS	A	D	d	K	L	n	Th	C <sub>1</sub>	C <sub>2</sub>	N	H	W <sub>1</sub>	W <sub>2</sub>
650	26	660.4	1020	762	901.7	2 5/8	20	M64(2 1/2)	135.0	154.0	743	259	-	-
700	28	711.2	1105	819	971.6	2 7/8	20	M72(2 3/4)	147.7	166.7	797	276	-	-
750	30	762.0	1180	876	1035.0	3 1/8	20	M76(3)	155.6	176.1	851	289	-	-
800	32	812.8	1240	927	1092.2	3 1/8	20	M76(3)	160.4	186.0	908	303	-	-
850	34	863.6	1315	991	1155.7	3 3/8	20	M85(3 1/4)	171.5	195.0	962	319	-	-
900	36	914.4	1345	1029	1200.2	3 1/8	24	M76(3)	173.1	201.7	1016	325	-	-

注释Note:  
1)①、对焊法兰WN; ②、Welding Neck Flange WN;  
2)可按HG20623,GB13402,MSS SP44等标准制造。HG20623, GB13402, MSS SP44 specifications are available.

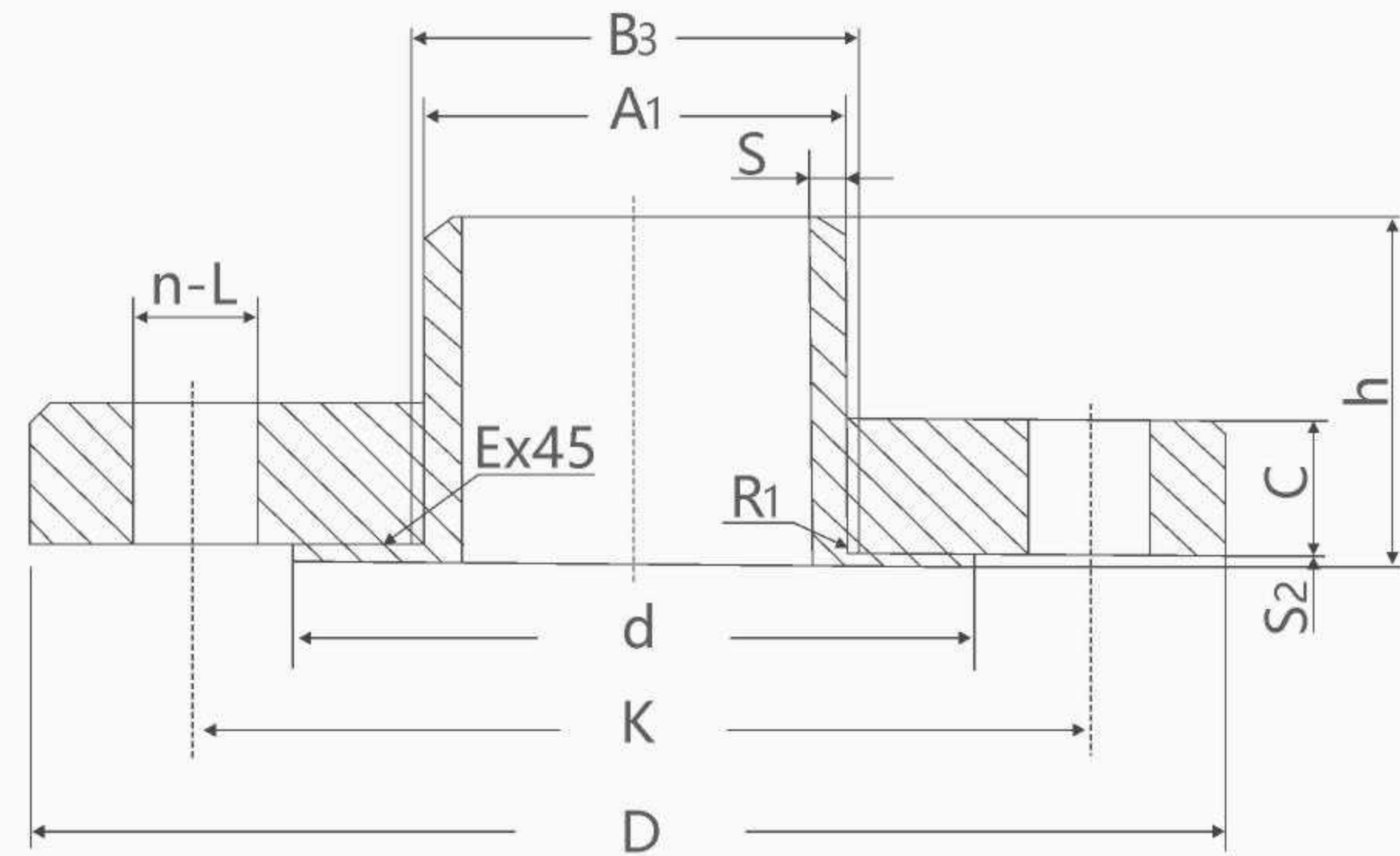


图4-1 对焊环松套钢制管法兰(PJ(板式松套)/SE(对焊环))  
Figure 4-1 Butt Weld Ring Loose Steel Pipe Flange  
(PJ (Plate Loose Sleeve)/SE (Butt Welding Ring))

法兰的尺寸按图4-1和表4-1~5的规定

- 表4-1 PNO.6MPa(6bar)对焊环松套钢制管法兰
- 表4-2 PN1.0MPa(10bar)对焊环松套钢制管法兰
- 表4-3 PN1.6MPa(16bar)对焊环松套钢制管法兰
- 表4-4 PN2.5MPa(25bar)对焊环松套钢制管法兰
- 表4-5 PN4.0MPa(40bar)对焊环松套钢制管法兰

对焊环颈部壁厚S一般等于钢管名义厚度，由用户确定。

本标准表4-1~5中列入的S值仅用于用户未提出具体要求的情况。

当用户选用不同于表4-1~5所列的S值时，应在订货及标注中注明。

对焊环的翻边厚度S<sub>2</sub>应不小于钢管最小壁厚 (0.875S)。

The Dimensions Of The Flange Are As Specified  
In Figure 4-1 And Table 4-1~5

Table 4-1 PNO.6MPa(6bar) butt welding ring loose steel pipe flange  
Table 4-2 PN1.0MPa (10bar) butt welding ring loose steel pipe flange  
Table 4-3 PN1.6MPa (16bar) butt welding ring loose steel pipe flange  
Table 4-4 PN2.5MPa (25bar) butt welding ring loose steel pipe flange  
Table 4-5 PN4.0MPa (40bar) butt welding ring loose steel pipe flange  
The neck wall thickness S of the butt welding ring is generally equal to the nominal thickness of the steel pipe, which is determined by the user. The S values listed in Tables 4-1~5 of this standard are only used for occasions where the user has not put forward specific requirements. When the user chooses the S value different from those listed in Table 4-1~5, it should be indicated in the ordering and marking. The flanging thickness S<sub>2</sub> of the butt welding ring should not be less than the minimum wall thickness of the steel pipe (0.875S).

表 4-1

对焊环松套钢制法兰PN0.6MPa(6bar)  
Butt Welding Ring Loose Steel Flange PN0.6MPa(6bar)

公称 口径 DN	钢管外径 (对焊环 颈部外径) A <sub>1</sub>		法兰尺寸					法兰 厚度 C	法兰内径 B <sub>1</sub>		圆角 R <sub>1</sub>	倒角 E	对焊环				理论重量 (kg)	
	A	B	法兰 外径 D	螺栓孔 中心圆 直径 K	螺栓 孔 直径 L	螺栓 孔 数量 n	螺纹 Th		A	B			高度 h	外径 d	S	S <sub>2</sub>	对焊环	法兰
	10	17.2	14	75	50	11	4	M10	12	21	18	2	2	28	33	1.8	1.8	0.03
15	21.3	18	80	55	11	4	M10	12	25	22	2	2	30	38	2.0	2.0	0.04	0.40
20	26.9	25	90	65	11	4	M10	14	31	29	2	2	32	48	2.3	2.3	0.08	0.58
25	33.7	32	100	75	11	4	M10	14	38	36	3	3	35	58	2.6	2.6	0.11	0.71
32	42.4	38	120	90	14	4	M12	16	47	42	3	3	35	69	2.6	2.6	0.16	1.17
40	48.3	45	130	100	14	4	M12	16	53	50	3	3	38	78	2.6	2.6	0.19	1.34
50	60.3	57	140	110	14	4	M12	16	65	62	3	3	38	88	2.9	2.9	0.27	1.48
65	76.1	76	160	130	14	4	M12	16	81	81	3	3	38	108	2.9	2.9	0.37	1.80
80	88.9	89	190	150	18	4	M16	18	94	94	4	4	42	124	3.2	3.2	0.52	2.88
100	114.3	108	210	170	18	4	M16	18	120	114	4	4	45	144	3.6	3.6	0.71	3.31
125	139.7	133	240	200	18	8	M16	18	145	139	4	4	48	174	4.0	4.0	1.07	3.96
150	168.3	159	265	225	18	8	M16	20	174	165	4	4	48	199	4.5	4.5	1.43	4.98
200	219.1	219	320	280	18	8	M16	22	226	226	5	5	55	254	5.9	5.9	2.62	6.61
250	273	273	375	335	18	12	M16	24	281	281	5	5	60	309	6.3	6.3	3.71	8.54
300	323.9	325	440	395	22	12	M20	24	333	334	5	5	62	363	7.1	7.1	5.04	11.3
350	355.6	377	490		22	12	M20	26	365	386	5	5	62	413	7.1	7.1	6.75	13.7
400	406.4	426	540	495	22	16	M20	28	416	435	5	5	65	463	7.1	7.1	8.04	16.3
450	457	480	598	550	22	16	M20	30	467	490	5	5	65	518	7.1	7.1	9.52	
500	508	530	645	600	22	20	M20	32	519	541	6	6	68	568	7.1	7.1		
600	610	630	755	705	26	20	M24	36	622	642	6	6	70	667	7.1	7.1		

**BUTT WELDING RING LOOSE STEEL  
FLANGE PN1.0MPa (10BAR)**  
对焊环松套钢制法兰PN1.0MPa(10bar)

**BUTT WELDING RING LOOSE STEEL  
FLANGE PN1.6MPa(16BAR)**  
对焊环松套钢制法兰PN1.6MPa(16bar)

表 4-2

对焊环松套钢制法兰PN1.0MPa(10bar)  
Butt Welding Ring Loose Steel Flange PN1.0MPa(10bar)

mm

公称 口径 DN	钢管外径 (对焊环 颈部外径) A <sub>1</sub>		链接尺寸					法兰 厚度 C	法兰内径 B <sub>1</sub>		圆 角 R <sub>1</sub>	倒 角 E	对焊环				理论重量 (kg)	
	A	B	法兰 外径 D	螺栓孔 中心圆 直径 K	螺栓 孔 直径 L	螺栓 孔 数量 n	螺纹 Th		高度 h	外径 d			S	S <sub>2</sub>	对焊环	法兰		
10	17.2	14	90	60	14	4	M12	14	21	18	2	2	35	41	1.8	1.8	0.04	0.60
15	21.3	18	95	65	14	4	M12	14	25	22	2	2	38	46	2.0	2.0	0.05	0.67
20	26.9	25	105	75	14	4	M12	16	31	29	2	2	40	56	2.3	2.3	0.09	0.93
25	33.7	32	115	85	14	4	M12	16	38	36	3	3	40	65	2.6	2.6	0.13	1.10
32	42.4	38	140	100	18	4	M16	18	47	42	3	3	42	76	2.6	2.6	0.17	1.83
40	48.3	45	150	110	18	4	M16	18	53	50	3	3	45	84	2.6	2.6	0.20	2.07
50	60.3	57	165	125	18	4	M16	20	65	62	3	3	48	99	2.9	2.9	0.31	2.72
65	76.1	76	185	145	18	4	M16	20	81	81	3	3	48	118	2.9	2.9	0.41	3.25
80	88.9	89	200	160	18	8	M16	20	94	94	4	4	50	132	3.2	3.2	0.56	3.53
100	114.3	108	220	180	18	8	M16	22	120	114	4	4	52	156	3.6	3.6	0.79	4.45
125	139.7	133	250	210	18	8	M16	22	145	139	4	4	55	184	4.0	4.0	1.16	5.50
150	168.3	159	285	240	22	8	M20	24	174	165	4	4	55	211	4.5	4.5	1.56	7.41
200	219.1	219	340	295	22	8	M20	24	226	226	5	5	62	266	5.9	5.9	2.84	8.97
250	273	273	395	350	22	12	M20	26	281	281	5	5	68	319	6.3	6.3	3.96	11.4
300	323.9	325	445	400	22	12	M20	28	333	334	5	5	68	370	7.1	7.1	5.26	13.9
350	355.6	377	505	460	22	16	M20	30	365	386	5	5	68	429	7.1	7.1	7.34	18.2
400	406.4	426	565	515	26	16	M24	32	416	435	5	5	72	480	7.1	7.1	8.74	
450	457	480	615	565	26	20	M24	35	467	490	5	5	72	530	7.1	7.1		
500	508	530	670	620	26	20	M24	38	519	541	6	6	75	582	7.1	7.1		
600	610	630	780		30	20	M27	42	622	642	6	6	80	682	7.1	7.1		46.1

表 4-3

对焊环松套钢制法兰PN1.6MPa(16bar)  
Butt Welding Ring Loose Steel Flange PN1.6MPa(16bar)

mm

公称 口径 DN	钢管外径 (对焊环 颈部外径) A <sub>1</sub>		链接尺寸					法兰 厚度 C	法兰内径 B <sub>1</sub>		圆 角 R <sub>1</sub>	倒 角 E	对焊环				理论重量 (kg)	
	A	B	法兰 外径 D	螺栓孔 中心圆 直径 K	螺栓 孔 直径 L	螺栓 孔 数量 n	螺纹 Th		高度 h	外径 d			S	S <sub>2</sub>	对焊环	法兰		
10	17.2	14	90	60	14	4	M12	14	21	18	2	2	35	41	1.8	1.8	0.04	0.60
15	21.3	18	95	65	14	4	M12	14	25	22	2	2	38	46	2.0	2.0	0.05	0.67
20	26.9	25	105	75	14	4	M12	16	31	29	2	2	40	56	2.3	2.3	0.09	0.93
25	33.7	32	115	85	14	4	M12	16	38	36	3	3	40	65	2.6	2.6	0.13	1.10
32	42.4	38	140	100	18	4	M16	18	47	42	3	3	42	76	2.6	2.6	0.17	1.83
40	48.3	45	150	110	18	4	M16	18	53	50	3	3	45	84	2.6	2.6	0.20	2.07
50	60.3	57	165	125	18	4	M16	20	65	62	3	3	48	99	2.9	2.9	0.31	2.72
65	76.1	76	185	145	18	4	M16	20	81	81	3	3	48	118	2.9	2.9	0.41	3.25
80	88.9	89	200	160	18	8	M16	20	94	94	4	4	50	132	3.2	3.2	0.56	3.53
100	114.3	108	220	180	18	8	M16	22	120	114	4	4	52	156	3.6	3.6	0.79	4.45
125	139.7	133	250	210	18	8	M16	22	145	139	4	4	55	184	4.0	4.0	1.16	5.50
150	168.3	159	285	240	22	8	M20	24	174	165	4	4	55	211	4.5	4.5	1.56	7.41
200	219.1	219	340	295	22	12	M20	26	226	226	5	5	62	266	5.9	5.9	2.84	9.41
250	273	273	405	355	26	12	M24	28	281	281	5	5	70	319	6.3	6.3	3.96	13.3
300	323.9	325	460	410	26	12	M24	32	333	334	5	5	78	370	7.1	7.1	5.26	18.1
350	355.6	377	520	470	26	16	M24	35	365	386	5	5	82	429	8.0	8.0	8.25	23.9
400	406.4	426	580	525	30	16	M27	38	416	435	5	5	85	480	8.0	8.0	9.83	31.1
450	457	480	640	585	30	20	M27	42	467	490	5	5	87	548	8.0	8.0	12.3	39.2
500	508	530	715	650	33	20	M30x2	46	519	541	6	6	90	609	8.0	8.0	15.2	55.8
600	610	630	840	770		20	M33X2	52	622	642	6	6	95	720	8.8	8.8	22.1	

**BUTT WELDING RING LOOSE STEEL  
FLANGE PN2.5MPa(25BAR)**  
对焊环松套钢制法兰PN2.5MPa(25bar)

**BUTT WELDING RING LOOSE STEEL  
FLANGE PN4.0MPa(40BAR)**  
对焊环松套钢制法兰PN4.0MPa(40bar)

表 4-4

对焊环松套钢制法兰PN2.5MPa(25bar)  
Butt Welding Ring Loose Steel Flange PN2.5MPa(25bar) mm

公称 口径 DN	钢管外径 (对焊环 颈部外径) A <sub>1</sub>		链接尺寸					法兰 厚度 C	法兰内径 B <sub>1</sub>		圆 角 R <sub>1</sub>	倒 角 E	对焊环				理论重量 (kg)	
	A	B	法兰 外径 D	螺栓孔 中心圆 直径 K	螺栓 孔 直径 L	螺栓 孔 数量 n	螺纹 Th		高度 h	外径 d			S	S <sub>2</sub>	对焊环	法兰		
	10	17.2	14	90	60	14	4		M12	14			21	18			2	2
15	21.3	18	95	65	14	4	M12	14	25	22	2	2	38	46	2.0	2.0	0.05	0.67
20	26.9	25	105	75	14	4	M12	16	31	29	2	2	40	56	2.3	2.3	0.09	0.93
25	33.7	32	115	85	14	4	M12	16	38	36	3	3	40	65	2.6	2.6	0.14	1.10
32	42.4	38	140	100	18	4	M16	18	47	42	3	3	42	76	2.6	2.6	0.17	1.83
40	48.3	45	150	110	18	4	M16	18	53	50	3	3	45	84	2.6	2.6	0.22	2.07
50	60.3	57	165	125	18	4	M16	20	65	62	3	3	48	99	2.9	2.9	0.31	2.72
65	76.1	76	185	145	18	8	M16	22	81	81	3	3	52	118	2.9	2.9	0.46	3.40
80	88.9	89	200	160	18	8	M16	24	94	94	4	4	58	132	3.2	3.2	0.59	4.23
100	114.3	108	235	190	22	8	M20	26	120	114	4	4	65	156	3.6	3.6	0.93	6.15
125	139.7	133	270	220	26	8	M24	28	145	139	4	4	68	184	4.0	4.0	1.29	8.31
150	168.3	159	300	250	26	8	M24	30	174	165	4	4	75	211	4.5	4.5	1.90	10.6
200	219.1	219	360	310	26	12	M24	32	226	226	5	5	80	274	6.3	6.3	3.70	13.9
250	273	273	425	370	30	12	M27	35	281	281	5	5	88	330	7.1	7.1	5.69	19.6
300	323.9	325	485	430	30	16	M27	38	333	334	5	5	92	389	8.0	8.0	8.50	25.6
350	355.6	377	555	490	33	16	M30X2	42	365	386	5	5	100	448	8.0	8.0	10.9	36.6
400	406.4	426	620	550	36	16	M33X2	46	416	435	5	5	110	503	8.8	8.8	14.7	49.4
450	457	480	670	600	36	20	M33X2	50	467	490	5	5	110	548	8.8	8.8	17.1	56.3
500	508	530	730		36	20	M33X2	56	519	541	6	6	125	609	10.0	10.0	24.8	74.0
600	610	630	845	770	39	20	M36X3	68	622	642	6	6		720	11.0	11.0	33.4	113.7

表 4-5

对焊环松套钢制法兰PN4.0MPa(40bar)  
Butt Welding Ring Loose Steel Flange PN4.0MPa(40bar) mm

公称 口径 DN	钢管外径 (对焊环 颈部外径) A <sub>1</sub>		链接尺寸					法兰 厚度 C	法兰内径 B <sub>1</sub>		圆 角 R <sub>1</sub>	倒 角 E	对焊环				理论重量 (kg)	
	A	B	法兰 外径 D	螺栓孔 中心圆 直径 K	螺栓 孔 直径 L	螺栓 孔 数量 n	螺纹 Th		高度 h	外径 d			S	S <sub>2</sub>	对焊环	法兰		
	10	17.2	14	90	60	14	4		M12	14			21	18			2	2
15	21.3	18	95	65	14	4	M12	14	25	22	2	2	38	46	2.0	2.0	0.05	0.67
20	26.9	25	105	75	14	4	M12	16	31	29	2	2	40	56	2.3	2.3	0.09	0.93
25	33.7	32	115	85	14	4	M12	16	38	36	3	3	40	65	2.6	2.6	0.14	1.10
32	42.4	38	140	100	18	4	M16	18	47	42	3	3	42	76	2.6	2.6	0.17	1.83
40	48.3	45	150	110	18	4	M16	18	53	50	3	3	45	84	2.6	2.6	0.22	2.07
50	60.3	57	165	125	18	4	M16	20	65	62	3	3	48	99	2.9	2.9	0.31	2.72
65	76.1	76	185	145	18	8	M16	22	81	81	3	3	52	118	2.9	2.9	0.46	3.40
80	88.9	89	200	160	18	8	M16	24	94	94	4	4	58	132	3.2	3.2	0.59	4.23
100	114.3	108	235	190	22	8	M20	26	120	114	4	4	65	156	3.6	3.6	0.93	6.15
125	139.7	133	270	220	26	8	M24	28	145	139	4	4	68	184	4.0	4.0	1.29	8.31
150	168.3	159	300	250	26	8	M24	30	174	165	4	4	75	211	4.5	4.5	1.90	10.6
200	219.1	219	375	320	30	12	M27	36	226	226	5	5	88	284	6.3	6.3	3.19	17.5
250	273	273	450	385	33	12	M30x2	42	281	281	5	5	105	345	7.1	7.1	6.13	28.6
300	323.9	325	515	450	33	16	M30x2	48	333	334	5	5	115	409	8.0	8.0	9.29	40.3
350	355.6	377	580	510	36	16	M33x2	55	365	386	5	5	125	465	8.8	8.8	12.8	56.5
400	406.4	426	660	585	39	16	M36x3	60	416	435	5	5	135	535	11.0	11.0	20.6	82.1
450	457	480	685	610	39	20	M36x3	66	467	490	5	5	135	560	12.5	12.5	25.1	80.8
500	508	530	755	670	42	20	M39x3	72	519	541	6	6	140	615	14.2	14.2	35.6	107.4
600	610	630	890	795	48	20	M45x3	84	622	642	6	6	150	735	16.0	16.0	50.5	172.8

THE GENERAL METALLIC MATERIALS OF PRESSURE PIPES IN CHINESE STANDARDS  
中国标准中的压力管道常用金属材料表

中国标准中的压力管道常用金属材料表  
The General Metallic Materials Of Pressure Pipes In Chinese Standards

标准 Standard	现用牌号 New Grade	原用牌号 Old Grade	化学成分 Chemical Composition %Max										力学性能 Mechanical Requirement			
			C	Si	Mn	P	S	Cr	Ni	Mo	Other	T.S.(R <sub>m</sub> ) min MPa	YS(R <sub>0.2</sub> ) min MPa	EL(A) Min%	HB max	Other
GB/T 1220	022Cr19Ni10 022Cr17Ni12Mo2	00Cr19Ni10	0.030	1.00	2.00	0.045	0.030	18.00-20.00	8.00-12.00	-	-	480	175	40	187	Z≥60%
		00Cr17Ni14Mo2	0.030	1.00	2.00	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00	-	480	175	40	187	Z≥60%
GB/T 1220 GB/T 1221	06Cr17Ni12Mo2 06Cr18Ni11Ti	0Cr18Ni9	0.08	1.00	2.00	0.045	0.030	18.00-20.00	8.00-11.00	-	-	520	205	40	187	Z≥60%
		0Cr17Ni12Mo2	0.08	1.00	2.00	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00	-	520	205	40	187	Z≥60%
GB/T 4237	06Cr18Ni11Nb 022Cr19Ni10	0Cr18Ni11Nb	0.08	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	520	205	40	187	Z≥50%
		00Cr19Ni10	0.030	0.75	2.00	0.045	0.030	18.00-20.00	8.00-12.00	-	-	485	170	40	201	-
GB/T 4237 GB/T 4238	06Cr17Ni12Mo2 06Cr18Ni11Ti	00Cr17Ni14Mo2	0.030	0.75	2.00	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00	-	485	170	40	217	-
		0Cr18Ni9	0.08	0.75	2.00	0.040	0.030	18.00-20.00	8.00-10.50	-	-	515	205	40	201	-
GB/T 12771	06Cr17Ni12Mo2 06Cr18Ni11Nb	0Cr17Ni12Mo2	0.08	0.75	2.00	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00	-	515	205	40	217	-
		0Cr18Ni11Nb	0.08	0.75	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	515	205	40	217	-
GB/T 14976	06Cr18Ni11Nb 06Cr17Ni12Mo2	0Cr18Ni11Nb	0.08	0.75	2.00	0.045	0.030	17.00-19.00	9.00-13.00	-	-	520	205	35	-	-
		0Cr17Ni12Mo2	0.08	0.75	2.00	0.045	0.030	16.00-18.00	11.00-14.00	2.00-3.00	-	520	205	35	-	-
JB 14728	06Cr17Ni12Mo2 0Cr18Ni9	00Cr17Ni14Mo2	0.030	1.00	2.00	0.045	0.030	16.00-18.00	12.00-15.00	2.00-3.00	-	480	175	40	-	-
		0Cr18Ni9	0.07	1.00	2.00	0.035	0.030	17.00-19.00	8.00-11.00	-	-	520	205	35	139-187	-
YB/T 5089	06Cr19Ni10 022Cr19Ni10	00Cr19Ni10	0.03	1.00	2.00	0.035	0.030	18.00-20.00	8.00-12.00	-	-	480	175	35	-	-
		022Cr19Ni10	0.03	1.00	2.00	0.035	0.030	17.00-19.00	9.00-12.00	-	-	480	175	35	128-187	-
YB/T 5089	06Cr18Ni11Ti 06Cr18Ni11Nb	0Cr18Ni11Ti	0.08	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	520	205	35	138-187	-
		0Cr18Ni11Nb	0.08	1.00	2.00	0.035	0.030	17.00-19.00	9.00-13.00	-	-	520	205	35	129-187	-
YB/T 5089	06Cr17Ni12Mo2 06Cr17Ni12Mo2	0Cr17Ni12Mo2	0.08	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	520	205	35	-	-
		00Cr17Ni14Mo2	0.030	1.00	2.00	0.045	0.030	16.00-18.00	11.00-14.00	2.00-3.00	-	520	205	35	139-187	-
YB/T 5089	06Cr19Ni10 022Cr19Ni10	0Cr19Ni10	0.08	1.00	2.00	0.045	0.030	18.00-20.00	8.00-11.00	-	-	480	175	35	-	-
		022Cr19Ni10	0.03	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	480	175	35	139-187	-
YB/T 5089	06Cr18Ni11Ti 06Cr18Ni11Nb	0Cr18Ni11Ti	0.08	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	520	205	35	-	-
		0Cr18Ni11Nb	0.08	1.00	2.00	0.035	0.030	17.00-19.00	9.00-13.00	-	-	520	205	35	-	-
YB/T 5089	06Cr17Ni12Mo2 06Cr17Ni12Mo2	0Cr17Ni12Mo2	0.08	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	520	205	35	-	-
		00Cr17Ni14Mo2	0.030	1.00	2.00	0.045	0.030	16.00-18.00	11.00-14.00	2.00-3.00	-	520	205	35	139-187	-
YB/T 5089	06Cr19Ni10 022Cr19Ni10	0Cr19Ni10	0.08	1.00	2.00	0.045	0.030	18.00-20.00	8.00-11.00	-	-	480	175	35	-	-
		022Cr19Ni10	0.03	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	480	175	35	139-187	-
YB/T 5089	06Cr18Ni11Ti 06Cr18Ni11Nb	0Cr18Ni11Ti	0.08	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	520	205	35	-	-
		0Cr18Ni11Nb	0.08	1.00	2.00	0.035	0.030	17.00-19.00	9.00-13.00	-	-	520	205	35	-	-
YB/T 5089	06Cr17Ni12Mo2 06Cr17Ni12Mo2	0Cr17Ni12Mo2	0.08	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	520	205	35	-	-
		00Cr17Ni14Mo2	0.030	1.00	2.00	0.045	0.030	16.00-18.00	11.00-14.00	2.00-3.00	-	520	205	35	139-187	-
YB/T 5089	06Cr19Ni10 022Cr19Ni10	0Cr19Ni10	0.08	1.00	2.00	0.045	0.030	18.00-20.00	8.00-11.00	-	-	480	175	35	-	-
		022Cr19Ni10	0.03	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	480	175	35	139-187	-
YB/T 5089	06Cr18Ni11Ti 06Cr18Ni11Nb	0Cr18Ni11Ti	0.08	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	520	205	35	-	-
		0Cr18Ni11Nb	0.08	1.00	2.00	0.035	0.030	17.00-19.00	9.00-13.00	-	-	520	205	35	-	-
YB/T 5089	06Cr17Ni12Mo2 06Cr17Ni12Mo2	0Cr17Ni12Mo2	0.08	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	520	205	35	-	-
		00Cr17Ni14Mo2	0.030	1.00	2.00	0.045	0.030	16.00-18.00	11.00-14.00	2.00-3.00	-	520	205	35	139-187	-

具体要求请参照对应标准执行。  
Please refer to the corresponding standards for specific requirements.

THE GENERAL METALLIC MATERIALS OF PRESSURE PIPING IN ASME SPECIFICATION  
ASME规范中的压力管道常用金属材料表

ASME规范中的压力管道常用金属材料表  
The General Metallic Materials Of Pressure Piping In Asme Specification

规范 Code	牌号 Grade	化学成分 Chemical Composition %Max										力学性能 Mechanical Requirement			
		C	Si	Mn	P	S	Cr	Ni	Mo	Other	T.S.Min MPa	YS.Min MPa	EL Min%	HB max	Other
ASTM A 182/ ASME SA 182	F304 F304H F304L F316 F316H F316L F321 F321H F347 F347H F51 F53 F55	0.08	1.00	2.00	0.045	0.030	18.00-20.00	8.00-11.00	-	-	515	205	30	-	Z≥50%
		0.04-0.10	1.00	2.00	0.045	0.030	18.00-20.00	8.00-11.00	-	-	515	205	30	-	Z≥50%
ASTM A 240 ASME SA 240	304L 316 316H 321 347 TP347H TP304 TP304H TP316 TP316H TP316L TP321 TP321H TP347 TP347H Wp304 Wp304H Wp304L Wp316 Wp316H Wp316L Wp321 Wp321H Wp347 Wp347H S32205 S32750 S32760	0.030	1.00	2.00	0.045	0.030	18.00-20.00	8.00-11.00	-	-	485	170	30	-	Z≥50%
		0.04-0.10	1.00	2.00	0.045	0.030	16.00-18.00	10.0-14.0	2.00-3.00	-	515	205	30	-	Z≥50%
ASTM A 312/ ASME SA 312	TP316H TP316L TP321 TP321H TP347 TP347H Wp304 Wp304H Wp304L Wp316 Wp316H Wp316L Wp321 Wp321H Wp347 Wp347H S32205 S32750 S32760	0.030	1.00	2.00	0.045	0.030	18.00-20.00	8.00-11.00	-	-	655	485	25	290	Z≥45%
		0.04-0.10	1.00	2.00	0.045	0.030	16.00-18.00	10.0-14.0	2.00-3.00	-	515	205	30	-	Z≥50%
ASTM A 403/ ASME SA 403	Wp304 Wp304H Wp304L Wp316 Wp316H Wp316L Wp321 Wp321H Wp347 Wp347H S32205 S32750 S32760	0.030	1.00	2.00	0.045	0.030	18.00-20.00	8.00-11.00	-	-	515	205	30	-	Z≥50%
		0.04-0.10	1.00	2.00	0.045	0.030	16.00-18.00	10.0-14.0	2.00-3.00	-	515	205	30	-	Z≥50%
ASTM A 815/ ASME SA 815	S32750 S32760	0.030	1.00	2.00	0.045	0.030	18.00-20.00	8.00-11.00	-	-	750-895	550	25	270	-
		0.04-0.10	1.00	2.00	0.045	0.030	16.00-18.00	10.0-14.0	2.00-3.00	-	750-895	550	25	270	-

具体要求请参照对应标准执行。  
Please refer to the corresponding standards for specific requirements.

**THE STANDARD CONTRAST TABLE FOR,  
STAINLESS STEEL AND ALLOY**  
不锈钢/合金钢材料对照表

**THE CONTRAST TABLE FOR  
CORROSION-RESISTANT ALLOYS(CRA)**  
耐腐蚀合金材料对照表

不锈钢/合金钢材料对照表  
The Standard Contrast Table For,Stainless Steel And Alloy

Grade	DIN Standard	UNS	SS	AFNOR	ANSI	BS
牌号	德国标准	美国标准	新加坡标准	法国标准	美国标准	英国标准
1.4301	x5CrNi 18 10	S 30400	2332	Z 6 CN 18.09	304	304 S 15
1.4305	x10CrNi 18 9	S 30300	2346	Z 10 CNF 18.09	303	303 S 21
1.4306	x2CrNi 19 11	S 30403	2352	Z 2 CN18.09	304L	304 S 12
1.4310	x12CrNi 17 7	S 30100	2331	Z 12 CN 17.07	301	-
1.4401	x5 CrNiMo 17 12 2	S 31600	2347	Z 6 CND 17.11	316	316 S 16
1.4404	x2CrNiMo 17 13 2	S 31603	2348	Z 2 CND 17.12	316L	316 S 12
1.4435	x2CrNiMo 18 14 3	S 31603	2353	Z 2 CND 17.13	316L	316 S 12
1.4436	x5CrNiMo 17 13 3	S 31600	2343	Z 6 CND 17.12	316	316 S 16
1.4438	x2CrNiMo 18 16 4	S 31703	2367	Z 2 CND 19.15	317L	317 S 12
1.4439	x2CrNiMoN 17 13 5	-	-	-	317LNM	-
1.4449	x5CrNiMo 17 13	S 31700	-	-	317	317 S 16
1.4460	x8CrNiMo 27 5	S 32900	2324	-	-	329
1.4462	x2CrNiMoN 22 5	S 31803	-	Z 5 CND 21.08	-	-
1.4539	x2CrNiMoCu 25 20 5	N 08904	2562	Z 1 NCDU 25.20	-	-
1.4541	x6CrNiTi 18 10	S 32100	2337	Z 6 CNT 18.10	321	321 S 12
1.4550	x6CrNiNb 18 10	S 34700	2338	Z 6 CNNB 18.10	347	347 S 17
1.4571	x6CrNiMoTi 17 12 2	S 31635	2350	Z 6 CNDT 17.12	316Ti	320 S 17
1.4713	x10CrAl 7	-	-	Z 8 CA 7	-	-
1.4724	x10CrAl 13	-	-	-	-	-
1.4742	x10CrAl 18	-	-	Z 10 CAS 18	-	-
1.4762	x10CrAl 24	(S44600)	(2322)	Z 10 CAS 24	(446)	-
1.4821	x20 CrNiSi 25 4	-	-	-	-	-
1.4821	x15 CrNiSi 20 12	(S30900)	-	Z 15 CNS 20.12	(309)	(309 S 24)
1.4841	x15 CrNiSi 25 20	S 31400	-	Z 12 CNS 25.20	314	-
1.4845	x12 CrNi 25 21	S 31008	2361	Z 12 CN 25.20	310S	310 S 24
1.4864	x12 CrNiSi 36 16	N 08330	-	Z 12 NC 37.18	330	-
1.4876	x 10 CrNiAlTi 32 20	-	-	Z 8 NC 32.21	-	3076 NA 15H
1.4878	x12 CrNiTi 18 9	S 32100	2337	Z 6 CNT 18.12	321	321 S 20
2.4068	LC Ni 99. 2	-	-	-	B160	-
2.4360	NiCu 30Fe	-	-	-	B164	3076NA13
2.4375	NiCu 30Al	-	-	-	-	3076NA18
2.4610	NiMo 16Cr16Ti	-	-	-	-	3076NA45
2.4816	NiCr 15Fe	-	-	-	B166	3076NA14
2.4856	NiCr21Mo	-	-	-	-	3076NA43

耐腐蚀合金材料对照表  
The Contrast Table For Corrosion-Resistant Alloys(Cra)

Alloy Designation	UNS	BS	German Material Standards	DIN Standard	Brand Name
合金名称	美标	英国标准	德国材料标准	德国标准	商标
Nickel 200	N02200	3074NA11	2.4066	Ni 99. 2	-
Nickel 201	N02201	3074NA12	2.4068	LC-Ni99	-
Alloy 400	N04400	3074NA13	2.4360	NiCu30Fe	MONEL 400
Alloy 600	N06600	3074NA14	2.4816	NiCr15Fe	INCONEL 600
Alloy 800	N08810	3074NA15	1.4876	X10NC-AM3220	INCOLOY800
Alloy 825	N08825	3074NA16	2.4858	N Cr21Mo	NCOLOY 825
Alloy DS (330)	N08330	3074NA17	1.4864	X12N Gr-Si3616	-
Alloy K-500	N05500	3074NA18	2.4375	NiCu30Al	MONEL K-500
Alloy 75	-	-	2.4951	NiCu20Ti	-
Alloy 601	N06601	-	2.4851	NiCr23Fe	INCONEL 601
Alloy625	N06625	-	2.4856	NiCr22Mo8Nb	INCONEL 625
904L	N08904	-	1.4539	X1NiCrMoCuN25	CRONIFER 1925LC
Alloy C-276	N10276	-	2.4819	NiMo16Cr15W	HASTELLOY C-276
Alloy C-22	N06022	-	2. 4602	NiCr21Mo14W	HASTELLOY C-22
Alloy C-4	N06455	-	2.4610	NiMo16Cr16Ti	HASTELLOY C-4
Alloy B-2	N10665	-	2.4617	NiMo28	B-2
Alloy G-3	NO6985	-	2.4619	NiCr22Mo7Cu	G-3
Titan Gr. 1	-	-	3.7025	-	TITANIUM GR-1
Titan Gr. 2	-	-	3.7035	-	TITANIUM GR-2
Alloy 2205	S31803	-	1.4462	-	DUPLEX STEEL
-	S32750	-	-	-	SUPER DUPLEX STEEL
-	S32760	-	-	-	SUPERDUPLEXSTEEL
-	S31250	-	-	-	250 SMO
-	S31254	-	-	-	254 SMO
-	S31256	-	-	-	256 SMO
-	S34565	-	-	-	REMANIT 4565S

**THE CONTRAST TABLE FOR BUTT-WELDING FITTING, PIPING, STEEL PLATE MATERIALS**  
美标管件、钢管、锻件、钢板材料对照表

**BW 90° SR ELBOW REFER TO THE WEIGHT TABLE**  
对焊90°短半径弯头参考重量表



美标管件、钢管、锻件、钢板材料对照表  
The Contrast Table For Butt-welding Fitting, piping, steel Plate Materials

钢种 Steel Code	牌号 UNS	管件 Fittings	钢管 Steel Pipe	锻件 Forged Fittings	钢板 Steel Plate
奥氏体不锈钢 Stainless Steel	S30400	A403 WP304	A312 TP304	A182 F304	A240 Gr. 304
	S30403	A403 WP304L	A312 TP304L	A182 F304L	A240 Gr. 304L
	S31008	A403 WP310S	A312 TP310S	-	A240 Gr. 310S
	S31600	A403 WP316	A312 TP316	A182 F316	A240 Gr 316
	S31603	A403 WP316L	A312 TP316L	A182 F316L	A240 Gr. 316L
	S32100	A403 WP321	A312 TP321	A182 F321	A240 Gr. 321
	S32109	A403 WP321H	A312 TP321H	A182 F321H	A240 Gr. 321H
	S34700	A403 WP347	A312 TP347	A182 F347	A240 Gr. 347
双相不锈钢 Duplex Steel	S31803	A815 WPS31803	A790 S31803	A182 F51	A240 S31803
	S32750	A815 WPS32750	A790 2507	A182 F53	A240 2507
	S32760	A815 WPS32760	A790 S32760	A182 F55	A240 S32760
	S32205	A815 WPS32205	A790 2205	A182 F60	A240 2205

参考重量表  
Refer To The Weight Table

公称尺寸 Nominal Size		Sch10S	Sch20	Sch30	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
DN	NPS													
25	1	0.8	-	0.09	0.11	0.11	-	0.14	0.14	-	-	-	0.18	0.24
32	1 1/4	0.14	-	0.16	0.19	0.19	-	0.25	0.25	-	-	-	0.31	0.43
40	1 1/2	0.19	-	0.23	0.27	0.27	-	0.36	0.36	-	-	-	0.48	0.63
50	2	0.32	-	0.39	0.48	0.48	-	0.66	0.66	-	-	-	0.98	1.18
65	2 1/2	0.53	-	0.89	0.95	0.95	-	1.26	1.26	-	-	-	1.65	2.26
80	3	0.78	-	1.30	1.48	1.48	-	2.01	2.01	-	-	-	2.80	3.64
90	3 1/2	1.04	-	1.76	2.09	2.09	-	2.87	2.87	-	-	-	-	-
100	4	1.35	-	2.28	2.83	2.83	-	3.93	3.93	-	4.99	-	5.91	7.23
125	5	2.32	-	-	4.78	4.78	-	6.80	6.80	-	8.84	-	10.8	12.6
150	6	3.32	-	-	7.42	7.42	-	11.2	11.2	-	14.2	-	17.7	20.8
200	8	6.14	11.7	12.9	14.9	14.9	18.6	22.7	22.7	26.6	31.7	35.4	39.0	37.9
150	10	11.16	18.3	22.4	26.5	26.5	35.8	35.8	42.1	50.3	58.4	68.1	75.6	68.1
300	12	17.36	26.2	34.4	38.9	42.0	57.4	51.4	69.6	84.3	98.5	110	126	98.5
350	14	23.28	41.8	50.0	50.0	58.2	78.0	66.1	97.3	120	138	156	173	-
400	16	30.40	54.6	65.4	65.4	86.5	112	86.5	143	172	201	234	256	-
450	18	38.54	69.3	96.6	83.0	123	162	110	201	245	287	322	363	-
500	20	55.15	103	136	103	161	218	136	273	335	388	466	496	-
550	22	66.85	125	165	125	-	284	165	361	436	509	580	694	-
600	24	91.2	149	221	149	269	374	197	466	577	675	759	852	-
650	26	-	231	-	174	-	-	231	-	-	-	-	-	-
700	28	-	269	334	203	-	-	269	-	-	-	-	-	-
750	30	177.49	309	385	233	-	-	309	-	-	-	-	-	-
800	32	-	352	439	265	482	-	352	-	-	-	-	-	-
850	34	-	398	496	300	545	-	398	-	-	-	-	-	-
900	36	-	446	555	336	664	-	446	-	-	-	-	-	-
1000	40	-	-	-	415	-	-	552	-	-	-	-	-	-
1050	42	-	-	-	458	-	-	609	-	-	-	-	-	-
1100	44	-	-	-	503	-	-	669	-	-	-	-	-	-
1150	46	-	-	-	550	-	-	730	-	-	-	-	-	-
1200	48	-	-	-	599	-	-	796	-	-	-	-	-	-
1300	52	-	-	-	738	-	-	-	-	-	-	-	-	-
1400	56	-	-	-	854	-	-	-	-	-	-	-	-	-
1500	60	-	-	-	983	-	-	-	-	-	-	-	-	-
1600	64	-	-	-	1116	-	-	-	-	-	-	-	-	-
1700	68	-	-	-	1264	-	-	-	-	-	-	-	-	-
1800	72	-	-	-	1418	-	-	-	-	-	-	-	-	-
1900	76	-	-	-	1581	-	-	-	-	-	-	-	-	-
2000	80	-	-	-	1751	-	-	-	-	-	-	-	-	-

注释Note:  
大于DN1200(NPS 48)的STD重量为按公称壁厚9.53mm计算的重量  
The weight of the size more than DN1200 (NPS 48) is the calculated on the basis of thickness 9.53mm.

**BW 90° LR ELBOW**  
**REFER TO THE WEIGHT TABLE**  
**对焊90°长半径弯头参考重量表**

参考重量表  
Refer To The Weight Table

kg

公称尺寸 Nominal Size		Sch10S	Sch20	Sch30	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
DN	NPS													
15	1/2	0.06	-	0.07	0.18	0.08	-	0.11	0.11	-	-	-	0.13	0.17
20	3/4	0.08	-	0.09	0.11	0.11	-	0.14	0.14	-	-	-	0.19	0.24
25	1	0.13	-	0.14	0.16	0.16	-	0.12	0.12	-	-	-	0.28	0.36
32	1 1/4	0.20	-	0.24	0.28	0.28	-	0.24	0.24	-	-	-	0.47	0.64
40	1 1/2	0.28	-	0.35	0.40	0.40	-	0.53	0.53	-	-	-	0.71	0.94
50	2	0.47	-	0.59	0.71	0.71	-	0.98	0.98	-	-	-	1.46	1.76
65	2 1/2	0.79	-	0.32	1.42	1.42	-	1.87	1.87	-	-	-	2.45	3.35
80	3	1.17	-	0.95	2.22	2.22	-	3.01	3.01	-	-	-	4.20	5.45
90	3 1/2	1.56	-	2.62	3.12	3.12	-	4.28	4.28	-	-	-	-	-
100	4	2.01	-	3.39	4.22	4.22	-	5.86	5.86	-	7.4	-	8.81	10.8
125	5	3.47	-	-	7.15	7.15	-	10.2	10.2	-	13.2	-	16.1	18.9
150	6	5.01	-	-	11.2	11.2	-	16.8	16.8	-	21.4	-	26.7	31.3
200	8	9.63	17.6	19.4	22.4	22.4	28.0	34.1	34.1	40.0	47.7	53.2	58.6	56.9
250	10	16.74	27.5	33.6	39.7	39.7	53.7	53.7	63.2	75.5	87.6	102	113	102
300	12	26.01	39.3	51.5	58.3	62.9	86.0	76.9	104	126	148	164	188	148
350	14	34.86	62.5	74.9	74.9	87.1	117	98.9	146	180	207	234	259	-
400	16	45.67	82.0	98.3	98.3	130	169	130	215	259	302	351	385	-
450	18	57.86	104	145	125	185	244	165	302	367	431	484	545	-
500	20	82.72	154	204	154	242	326	204	410	502	581	669	744	-
550	22	100.21	187	248	187	-	426	248	541	654	763	870	974	-
600	24	136.64	223	331	223	403	561	295	698	865	1011	1137	1277	-
650	26	-	347	-	262	-	-	347	-	-	-	-	-	-
700	28	-	403	478	304	-	-	403	-	-	-	-	-	-
750	30	-	464	577	349	-	-	464	-	-	-	-	-	-
800	32	-	528	658	398	722	-	528	-	-	-	-	-	-
850	34	-	597	743	449	817	-	597	-	-	-	-	-	-
900	36	-	669	834	504	997	-	669	-	-	-	-	-	-
950	38	-	-	-	562	-	-	746	-	-	-	-	-	-
1000	40	-	-	-	623	-	-	828	-	-	-	-	-	-
1050	42	-	-	-	687	-	-	913	-	-	-	-	-	-
1100	44	-	-	-	754	-	-	1003	-	-	-	-	-	-
1150	46	-	-	-	825	-	-	1096	-	-	-	-	-	-
1200	48	-	-	-	898	-	-	1194	-	-	-	-	-	-
1300	52	-	-	-	1107	-	-	-	-	-	-	-	-	-
1400	56	-	-	-	1284	-	-	-	-	-	-	-	-	-
1500	60	-	-	-	1475	-	-	-	-	-	-	-	-	-
1600	64	-	-	-	1679	-	-	-	-	-	-	-	-	-
1700	68	-	-	-	1869	-	-	-	-	-	-	-	-	-
1800	72	-	-	-	2126	-	-	-	-	-	-	-	-	-
1900	76	-	-	-	2372	-	-	-	-	-	-	-	-	-
2000	80	-	-	-	2626	-	-	-	-	-	-	-	-	-

注释Note:  
大于DN1200(NPS 48)的STD重量为按公称壁厚9.53mm计算的重量  
The weight of the size more than DN1200 (NPS 48) is the calculated on the basis of thickness 9.53mm.

**BW 90°3D ELBOW**  
**REFER TO THE WEIGHT TABLE**  
**对焊90°3D弯头参考重量表**

参考重量表  
Refer To The Weight Table

kg

公称尺寸 Nominal Size		Sch20	Sch30	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
DN	NPS												
20	3/4	-	0.14	0.17	0.17	-	0.22	0.22	-	-	-	0.29	0.36
25	1	-	0.29	0.33	0.33	-	0.43	0.43	-	-	-	0.56	0.72
32	1 1/4	-	0.47	0.56	0.56	-	0.48	0.73	-	-	-	0.92	1.28
40	1 1/2	-	0.70	0.80	0.80	-	1.07	1.07	-	-	-	1.43	1.88
50	2	-	1.18	1.43	1.43	-	1.97	1.97	-	-	-	2.92	3.53
65	2 1/2	-	2.64	2.83	2.83	-	3.75	3.75	-	-	-	4.90	6.70
80	3	-	3.92	4.47	4.47	-	6.04	6.04	-	-	-	8.45	11.0
90	3 1/2	-	5.27	6.26	6.26	-	8.60	8.60	-	-	-	-	-
100	4	-	6.80	8.47	8.47	-	11.8	11.8	-	14.9	-	17.7	21.6
125	5	-	-	14.3	14.3	-	20.4	20.4	-	26.5	-	32.3	37.8
150	6	-	-	22.3	22.3	-	33.6	33.6	-	42.8	-	53.4	62.6
200	8	35.1	38.8	44.8	44.8	56.0	68.1	68.1	80.0	95.3	106	117	114
250	10	55.0	67.2	79.4	79.4	107	107	126	151	175	204	227	204
300	12	78.5	103	117	126	172	154	209	252	295	329	377	295
350	14	125	150	150	174	234	198	292	359	414	468	519	-
400	16	164	196	196	260	337	260	429	517	604	702	770	-
450	18	208	390	249	369	488	330	604	734	862	968	1089	-
500	20	309	409	309	483	653	409	819	1005	1163	1338	1487	-
550	22	374	496	374	-	852	496	1083	1307	1526	1740	1947	-
600	24	446	663	446	807	1123	591	1397	1731	2023	2276	255	-
650	26	694	-	523	-	-	694	-	-	-	-	-	-
700	28	806	1004	608	-	-	806	-	-	-	-	-	-
750	30	927	1154	699	-	-	927	-	-	-	-	-	-
800	32	1056	1315	796	1445	-	1056	-	-	-	-	-	-
850	34	1194	1487	899	1634	-	1194	-	-	-	-	-	-
900	36	1338	1667	1008	1993	-	1338	-	-	-	-	-	-
950	38	-	-	1124	-	-	1493	-	-	-	-	-	-
100	40	-	-	1246	-	-	1655	-	-	-	-	-	-
1050	42	-	-	1374	-	-	1826	-	-	-	-	-	-
1100	44	-	-	1509	-	-	2006	-	-	-	-	-	-
1500	46	-	-	1649	-	-	2191	-	-	-	-	-	-
1200	48	-	-	1797	-	-	2388	-	-	-	-	-	-



**BW EQUAL TEE**  
**REFER TO THE WEIGHT TABLE**  
**对焊等径三通参考重量表**

参考重量表  
Refer To The Weight Table

kg

公称尺寸 Nominal size		Sch10S	Sch20	Sch30	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
DN	NPS													
15	1/2	0.10	-	0.15	0.16	0.16	-	0.20	0.02	-	-	-	0.25	0.35
20	3/4	0.11	-	0.18	0.20	0.20	-	0.30	0.30	-	-	-	0.35	0.45
25	1	0.20	-	0.27	0.28	0.28	-	0.45	0.45	-	-	-	0.54	0.77
32	1 1/4	0.39	-	0.46	0.55	0.55	-	0.70	0.70	-	-	-	0.91	1.26
40	1 1/2	0.69	-	0.68	0.78	0.78	-	1.25	1.25	-	-	-	1.39	1.83
50	2	1.05	-	0.96	1.17	1.17	-	1.61	1.61	-	-	-	2.39	2.89
65	2 1/2	1.25	-	2.06	2.21	2.21	-	2.92	2.92	-	-	-	3.81	5.21
80	3	1.68	-	2.87	3.23	3.23	-	4.42	4.42	-	-	-	6.17	8.01
90	3 1/2	1.92	-	3.65	4.33	4.33	-	5.95	5.95	-	-	-	-	-
100	4	2.54	-	4.56	5.68	5.68	-	7.88	7.88	-	10.0	-	11.8	14.5
125	5	4.14	-	-	9.08	9.08	-	12.9	12.9	-	16.8	-	20.5	24.0
150	6	5.31	-	-	13.6	13.6	-	20.5	20.5	-	26.7	-	32.5	38.1
200	8	10.4	17.5	22.0	25.5	25.5	31.8	38.7	38.7	45.5	54.1	60.4	66.6	64.6
250	10	18.04	28.0	37.1	44.8	44.8	59.2	59.2	69.7	83.3	96.6	113	125	113
300	12	24.8	42.6	55.7	63.1	68.1	93.0	82.2	112	137	160	178	204	160
350	14	31.1	64.5	76.3	76.3	88.7	119	101	148	183	211	238	264	-
400	16	36.7	78.2	95.7	95.7	126	164	126	191	252	294	342	375	-
450	18	45.5	102	141	121	179	237	160	269	257	419	471	529	-
500	20	65.3	168	198	150	235	317	190	365	489	566	651	724	-
550	22	85.2	185	241	182	-	414	241	482	636	743	846	947	-
600	24	107	222	305	205	340	561	272	589	796	930	1046	1174	-
650	26	-	340	-	254	-	-	337	-	-	-	-	-	-
700	28	-	390	478	289	-	-	383	-	-	-	-	-	-
750	30	-	420	549	332	-	-	441	-	-	-	-	-	-
800	32	-	480	627	379	631	-	503	-	-	-	-	-	-
850	34	-	540	709	429	714	-	569	-	-	-	-	-	-
900	36	-	610	796	481	872	-	639	-	-	-	-	-	-
950	38	-	-	-	537	-	-	713	-	-	-	-	-	-
1000	40	-	-	-	598	-	-	791	-	-	-	-	-	-
1050	42	-	-	-	636	-	-	846	-	-	-	-	-	-
1100	44	-	-	-	712	-	-	946	-	-	-	-	-	-
1150	46	-	-	-	779	-	-	995	-	-	-	-	-	-
1200	48	-	-	-	850	-	-	1080	-	-	-	-	-	-
1300	52	-	-	-	917	-	-	-	-	-	-	-	-	-
1400	56	-	-	-	1065	-	-	-	-	-	-	-	-	-
1500	60	-	-	-	1226	-	-	-	-	-	-	-	-	-
1600	64	-	-	-	1398	-	-	-	-	-	-	-	-	-
1700	68	-	-	-	1580	-	-	-	-	-	-	-	-	-
1800	72	-	-	-	1740	-	-	-	-	-	-	-	-	-
1900	76	-	-	-	1980	-	-	-	-	-	-	-	-	-
2000	80	-	-	-	2290	-	-	-	-	-	-	-	-	-

注释Note:  
大于DN1200(NPS 48)的STD重量为按公称壁厚9.53mm计算的重量  
The weight of the size more than DN1200 (NPS 48) is the calculated on the basis of thickness 9.53mm.

**BW REDUCER**  
**REFER TO THE WEIGHT TABLE**  
**对焊异径管参考重量表**

参考重量表  
Refer To The Weight Table

kg

公称尺寸 Nominal Size		Sch10S	Sch20	Sch30	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
DN	NPS													
20	3/4	-	-	0.06	0.07	0.07	-	0.09	0.09	-	-	-	0.12	0.15
25	1	-	-	0.12	0.14	0.14	-	0.18	0.18	-	-	-	0.24	0.31
32	1 1/4	-	-	0.16	0.19	0.19	-	0.25	0.25	-	-	-	0.32	0.45
40	1 1/2	-	-	0.25	0.29	0.29	-	0.38	0.38	-	-	-	0.51	0.71
50	2	0.27	-	0.37	0.46	0.46	-	0.63	0.63	-	-	-	0.93	1.20
65	2 1/2	0.43	-	0.79	0.85	0.85	-	1.12	1.12	-	-	-	1.46	2.00
80	3	0.53	-	0.97	1.11	1.11	-	1.50	1.50	-	-	-	2.09	2.71
90	3 1/2	-	-	1.28	1.52	1.52	-	2.09	2.09	-	-	-	-	-
100	4	0.82	-	1.45	1.81	1.81	-	2.51	2.51	-	3.18	-	3.76	4.60
125	5	1.35	-	-	3.04	3.04	-	4.33	4.33	-	5.63	-	6.86	8.02
150	6	1.81	-	-	4.35	4.35	-	6.55	6.55	-	8.35	-	10.4	12.2
200	8	2.75	5.57	6.16	7.12	7.12	8.88	10.8	10.8	12.7	15.1	16.9	18.6	18.0
250	10	4.21	8.18	9.99	11.8	11.8	16.0	16.0	18.8	22.5	26.0	30.4	33.7	30.4
300	12	6.88	11.1	14.6	16.5	17.8	24.3	21.8	29.5	35.7	41.7	46.5	53.3	41.7
350	14	13.2	24.6	29.5	29.6	34.3	46.0	39.0	57.4	70.8	81.5	92.0	102	-
400	16	16.1	30.5	36.5	36.6	48.3	62.7	48.3	79.7	96.2	112	130	143	-
450	18	19.5	36.8	51.3	44.1	65.3	86.2	58.3	107	130	152	171	193	-
500	20	-	65.5	86.7	65.5	102	138	86.7	174	213	247	284	316	-
550	22	-	72.2	95.6	72.2	-	164	95.6	209	252	294	336	376	-
600	24	-	78.9	117	78.9	143	199	105	247	306	358	402	452	-
650	26	-	136	-	103	-	-	136	-	-	-	-	-	-
700	28	-	147	183	111	-	-	147	-	-	-	-	-	-
750	30	-	157	196	119	-	-	158	-	-	-	-	-	-
800	32	-	168	209	127	230	-	168	-	-	-	-	-	-
850	34	-	179	223	135	245	-	179	-	-	-	-	-	-
900	36	-	189	236	143	282	-	190	-	-	-	-	-	-
950	38	-	-	-	151	-	-	200	-	-	-	-	-	-
1000	40	-	-	-	159	-	-	211	-	-	-	-	-	-
1050	42	-	-	-	167	-	-	222	-	-	-	-	-	-
1100	44	-	-	-	175	-	-	232	-	-	-	-	-	-
1150	46	-	-	-	213	-	-	283	-	-	-	-	-	-
1200	48	-	-	-	222	-	-	296	-	-	-	-	-	-
1300	52	-	-	-	241	-	-	-	-	-	-	-	-	-
1400	56	-	-	-	259	-	-	-	-	-	-	-	-	-
1500	60	-	-	-	278	-	-	-	-	-	-	-	-	-

注释Note:  
大于DN1200(NPS 48)的STD重量为按公称壁厚9.53mm计算的重量  
The weight of the size more than DN1200 (NPS 48) is the calculated on the basis of thickness 9.53mm.

**BW CAP**  
**REFER TO THE WEIGHT TABLE**  
**对焊管帽参考重量表**

**BW STRAIGHT 45° LATERAL TEE**  
**REFER TO THE WEIGHT TABLE**  
**对焊等径45°斜三通参考重量表**

参考重量表  
 Refer To The Weight Table

kg

公称尺寸 Nominal Size		Sch10S	Sch20	Sch30	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
DN	NPS													
15	1/2	0.028	-	0.04	0.04	0.04	-	0.06	0.06	-	-	-	0.08	0.11
20	3/4	0.035	-	0.04	0.05	0.05	-	0.07	0.07	-	-	-	0.11	0.15
25	1	0.087	-	0.10	0.12	0.12	-	0.16	0.16	-	-	-	0.22	0.32
32	1 1/4	0.11	-	0.13	0.16	0.16	-	0.22	0.22	-	-	-	0.28	0.43
40	1 1/2	0.127	-	0.16	0.19	0.19	-	0.26	0.26	-	-	-	0.36	0.52
50	2	0.17	-	0.21	0.26	0.26	-	0.36	0.36	-	-	-	0.57	0.73
65	2 1/2	0.23	-	0.40	0.44	0.44	-	0.59	0.59	-	-	-	0.80	1.18
80	3	0.37	-	0.65	0.73	0.73	-	1.08	1.08	-	-	-	1.48	2.02
90	3 1/2	0.51	-	0.90	1.07	1.07	-	1.51	1.51	-	-	-	-	-
100	4	0.59	-	1.04	1.30	1.30	-	1.85	1.85	-	2.40	-	2.91	3.69
125	5	0.99	-	-	2.10	2.10	-	3.06	3.06	-	4.07	-	5.09	6.10
150	6	1.39	-	-	3.19	3.19	-	4.93	4.93	-	6.41	-	8.20	9.86
200	8	2.38	4.45	4.92	5.72	5.72	7.21	8.88	8.88	10.6	12.8	14.5	16.1	15.6
250	10	4.14	6.89	8.46	10.1	10.1	13.9	13.8	16.4	19.8	23.3	27.6	31.0	27.6
300	12	6.15	9.75	12.9	14.6	15.9	21.9	19.5	26.9	32.9	39.0	43.9	51.2	39.0
350	14	8.02	14.6	17.6	17.5	20.5	27.7	23.3	35.0	43.8	51.1	58.4	65.7	-
400	16	10.1	18.3	22.1	22.1	29.4	38.6	29.4	49.7	60.7	71.7	84.6	93.8	-
450	18	12.9	23.4	32.9	28.2	42.2	56.3	37.5	70.4	86.8	103	117	134	-
500	20	18.4	35.1	46.8	35.1	55.6	76.0	46.8	96.5	120	141	164	184	-
550	22	22.5	42.7	56.9	42.7	-	99.7	57.0	128	157	185	214	242	-
600	24	30.9	49.7	74.5	49.7	91.2	129	66.3	162	203	240	273	311	-
650	26	-	74.0	-	55.6	-	-	74.1	-	-	-	-	-	-
700	28	-	82.4	103	61.8	-	-	82.4	-	-	-	-	-	-
750	30	51.6	91.2	114	68.5	-	-	91.2	-	-	-	-	-	-
800	32	-	101	126	75.4	138	-	101	-	-	-	-	-	-
850	34	-	110	138	82.7	152	-	110	-	-	-	-	-	-
900	36	-	120	150	90.2	180	-	120	-	-	-	-	-	-
950	38	-	-	-	104	-	-	139	-	-	-	-	-	-
1000	40	-	-	-	113	-	-	150	-	-	-	-	-	-
1050	42	-	-	-	122	-	-	162	-	-	-	-	-	-
1100	44	-	-	-	138	-	-	184	-	-	-	-	-	-
1150	46	-	-	-	148	-	-	197	-	-	-	-	-	-
1200	48	-	-	-	185	-	-	210	-	-	-	-	-	-

注释Note:  
 表中为按管帽高度E值计算的重量。  
 The weight for the above listed caps is calculated on the basis of E height.

参考重量表  
 Refer To The Weight Table

kg

公称尺寸 Nominal Size		Sch10S	Sch20	Sch30	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
DN	NPS													
15	1/2	0.25	-	0.28	0.32	0.32	-	0.41	0.41	-	-	-	0.49	0.64
20	3/4	0.37	-	0.42	0.49	0.49	-	0.64	0.64	-	-	-	0.85	1.07
25	1	0.73	-	0.76	0.87	0.87	-	1.13	1.13	-	-	-	1.47	1.89
32	1 1/4	1.26	-	1.34	1.59	1.59	-	2.09	2.09	-	-	-	2.62	3.63
40	1 1/2	1.7	-	1.93	2.21	2.21	-	2.95	2.95	-	-	-	3.95	5.21
50	2	2.27	-	2.58	3.13	3.13	-	4.31	4.31	-	-	-	6.41	7.75
65	2 1/2	3.46	-	5.29	5.68	5.68	-	7.50	7.50	-	-	-	9.81	13.4
80	3	4.52	-	6.94	7.9	7.9	-	10.7	10.7	-	-	-	14.9	19.4
90	3 1/2	5.38	-	8.29	9.85	9.85	-	13.5	13.5	-	-	-	-	-
100	4	7.01	-	10.8	13.5	13.5	-	18.7	18.7	-	23.7	-	28.1	31.4
125	5	10.8	-	-	20.4	20.4	-	29.0	29.0	-	37.8	-	46.0	53.8
150	6	15.1	-	-	30.8	30.8	-	46.4	46.4	-	59.2	-	73.7	86.5
200	8	25.6	42.8	47.3	54.6	54.6	68.2	83.0	83.0	97.5	116	130	143	139
250	10	41.6	62.5	76.3	90.2	90.2	122	122	144	172	199	232	258	232
300	12	61.4	84.9	111	126	136	186	166	225	273	319	355	408	319
350	14	105	130	156	156	181	242	205	30.2	373	460	485	539	-
400	16	133	165	198	198	262	340	262	432	521	609	707	776	-
450	18	164	204	284	244	361	477	323	591	718	844	947	1066	-
500	20	197	293	388	293	459	620	388	778	954	1105	1271	1413	-
550	22	234	348	462	348	-	794	463	1009	1218	1422	1621	1814	-
600	24	277	414	615	414	750	1043	549	1298	1608	1879	2114	2372	-
650	26	404	643	-	485	-	-	643	-	-	-	-	-	-
700	28	473	753	937	568	-	-	753	-	-	-	-	-	-
750	30	542	864	1076	651	-	-	864	-	-	-	-	-	-
800	32	616	982	1224	740	1344	-	982	-	-	-	-	-	-
850	34	696	1110	1383	836	1519	-	1110	-	-	-	-	-	-
900	36	780	1245	1551	937	1854	-	1245	-	-	-	-	-	-
950	38	-	-	-	1073	-	-	1425	-	-	-	-	-	-
1000	40	-	-	-	1190	-	-	1580	-	-	-	-	-	-
1050	42	-	-	-	1313	-	-	1744	-	-	-	-	-	-
1100	44	-	-	-	1141	-	-	1915	-	-	-	-	-	-
1150	46	-	-	-	1575	-	-	2093	-	-	-	-	-	-
1200	48	-	-	-	1716	-	-	2280	-	-	-	-	-	-

**SHORT FLANGE  
REFER TO THE WEIGHT TABLE  
翻边短节参考重量表**

参考重量表  
Refer To The Weight Table

kg

公称尺寸 Nominal Size		Sch10S		Sch40		Sch80	
DN	NPS	短型 Short Pattern	长型 Long Pattern	短型 Short Pattern	长型 Long Pattern	短型 Short Pattern	长型 Long Pattern
15	1/2	0.07	0.09	0.09	0.12	0.12	0.16
20	3/4	0.09	0.12	0.12	0.16	0.15	0.21
25	1	0.15	0.25	0.18	0.32	0.24	0.43
32	1 1/4	0.19	0.34	0.25	0.43	0.33	0.57
40	1 1/2	0.22	0.39	0.31	0.52	0.43	0.75
50	2	0.35	0.71	0.52	1.02	0.73	1.49
65	2 1/2	0.46	0.95	0.81	1.60	1.10	2.22
80	3	0.62	1.22	1.10	2.11	1.50	2.98
90	3 1/2	0.70	1.36	1.52	2.55	2.09	3.65
100	4	0.94	1.59	1.80	3.05	2.58	4.44
125	5	1.30	2.80	2.25	5.42	3.60	7.86
150	6	1.75	3.30	3.59	7.02	5.76	11.3
200	8	2.90	4.95	5.98	10.6	9.18	16.2
250	10	4.79	8.50	10.2	18.4	13.7	24.9
300	12	7.20	10.9	14.9	22.8	19.5	30.2
350	14	7.95	15.0	15.8	28.7	21.6	38.6
400	16	9.50	17.3	18.9	33.1	25.2	44.5
450	18	11.1	19.8	22.0	38.0	29.3	51.1
500	20	14.1	25.9	24.3	42.3	32.6	56.8
550	22	16.5	28.2	-	-	-	-
600	24	19.8	35.0	29.6	51.2	39.7	68.8

**不锈钢管件**

Stainless Steel Pipe Fittings

不锈钢管件属于管件的一种，它是由不锈钢的材质制成所以叫不锈钢管件，它包含：不锈钢弯头，不锈钢三通，不锈钢四通，不锈钢异径管，不锈钢管帽等，根据联接方法可分为承插式不锈钢管件、螺纹不锈钢管件、法兰不锈钢管件和焊接不锈钢管件四类。

Stainless steel pipe fittings are a kind of pipe fittings, which are made of stainless steel so it's called stainless steel pipe fittings. It contains: stainless steel elbow, stainless steel tee, stainless steel cross, stainless steel reducing diameter pipe, stainless steel pipe cap, etc., according to the connection method. Can be divided into socket type stainless steel pipe fittings, threaded stainless steel pipe fittings, flanges, stainless steel pipe fittings and welding. Four types of stainless steel pipe fittings.



**WELDED AND SEAMLESS STEEL PIPE  
(ASME B36.10M) REFERENCE WEIGHT CHART  
焊接和无缝钢管(ASME B36.10M)参考重量表**

参考重量表  
Refer To The Weight Table

kg

公称尺寸 Nominal Size		外径 OD	每米重量 kg/m Weight per meter kg/m												
DN	NPS		Sch10S	Sch20	Sch30	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
6	1/8	10.3	0.28	-	0.32	0.37	0.37	-	0.47	0.47	-	-	-	-	-
80	1/4	13.7	0.49	-	0.54	0.63	0.63	-	0.80	0.80	-	-	-	-	-
10	3/8	17.1	0.63	-	0.70	0.84	0.84	-	1.10	1.10	-	-	-	-	-
15	1/2	21.3	1.00	-	1.12	1.27	1.27	-	1.62	1.62	-	-	-	1.95	2.55
20	3/4	26.7	0.28	-	1.44	1.69	1.69	-	2.20	2.20	-	-	-	2.90	3.64
25	1	33.4	2.09	-	2.18	2.50	2.50	-	3.24	3.24	-	-	-	4.24	5.45
32	1 1/4	42.2	2.70	-	2.87	3.39	3.39	-	4.47	4.47	-	-	-	5.16	7.77
40	1 1/2	48.3	3.11	-	3.53	4.05	4.05	-	5.41	5.41	-	-	-	7.25	9.56
50	2	60.3	3.93	-	4.48	5.44	5.44	-	7.48	7.48	-	-	-	11.11	13.44
65	2 1/2	73.0	5.26	-	8.04	8.63	8.63	-	11.41	11.41	-	-	-	14.92	20.39
80	3	88.9	6.45	-	9.92	11.29	11.29	-	15.72	15.72	-	-	-	21.35	27.68
90	3 1/2	101.6	7.40	-	11.41	13.57	13.57	-	18.63	18.63	-	-	-	-	-
100	4	114.3	8.36	-	12.91	16.07	16.07	-	22.32	22.32	-	28.32	-	33.54	41.03
125	5	141.3	11.57	-	-	21.77	21.77	-	30.97	30.97	-	40.28	-	49.11	57.43
150	6	168.3	13.48	-	-	27.26	28.26	-	42.56	42.56	-	54.20	-	67.56	79.22
200	8	219.1	19.96	33.31	36.81	42.55	42.55	53.08	64.64	64.64	75.92	90.44	100.9	111.3	107.9
250	10	273.0	27.78	41.77	51.03	60.31	60.31	81.55	81.55	96.01	114.8	133.1	155.2	172.3	155.2
300	12	323.9	36.00	49.73	65.20	73.88	79.73	109.0	97.46	132.1	159.9	187.0	208.1	238.8	187.0
350	14	355.6	54.69	67.90	81.33	81.33	94.55	126.7	107.4	158.1	195.0	224.7	253.6	281.7	-
400	16	406.4	62.64	77.83	93.27	93.27	123.3	160.1	123.3	203.5	245.6	286.7	333.2	365.4	-
450	18	457.0	70.57	87.71	122.4	105.2	155.8	205.7	139.2	254.6	309.6	363.6	408.3	359.4	-
500	20	508	78.55	117.2	155.1	117.2	183.4	247.8	155.1	311.2	381.5	441.5	508.1	564.8	-
550	22	559	86.54	129.1	171.1	129.1	-	294.3	171.1	373.8	451.4	527.0	611.6	672.3	-
600	24	610	94.53	141.1	209.6	141.1	255.4	355.3	187.1	442.1	547.7	640.0	720.2	808.2	-
650	26	660	127.4	202.7	-	152.9	-	-	202.7	-	-	-	-	-	-
700	28	711	137.3	218.7	271.2	164.9	-	-	218.7	-	-	-	-	-	-
750	30	762	147.3	234.7	292.2	176.8	-	-	234.7	-	-	-	-	-	-
800	32	813	157.2	250.6	312.2	188.8	342.9	-	250.6	-	-	-	-	-	-
850	34	864	167.2	266.6	332.1	200.3	364.9	-	266.6	-	-	-	-	-	-
900	36	914	177.0	282.3	351.7	212.6	420.4	-	282.3	-	-	-	-	-	-
950	38	965	-	-	-	224.5	-	-	298.3	-	-	-	-	-	-
1000	40	1016	-	-	-	236.5	-	-	314.2	-	-	-	-	-	-
1050	42	1067	-	-	-	248.5	-	-	330.2	-	-	-	-	-	-
1100	44	1118	-	-	-	261.5	-	-	346.2	-	-	-	-	-	-
1150	46	1168	-	-	-	272.3	-	-	351.8	-	-	-	-	-	-
1200	48	1219	-	-	-	284.2	-	-	377.8	-	-	-	-	-	-

**OUTER DIAMETER AND WALL THICKNESS TABLE**  
**外径与壁厚表**

国标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/T12459& GB/T 13401 And Outside Diameter And Wallthickness (II Series) of HG/T 21631

公称尺寸 Nominal Size	外径 OD	公称压力 Nominal Pressure PN(MPa)		
		1.0	1.6	2.5
15	18	-	-	-
20	25	-	-	-
25	32	-	-	-
32	38	-	-	-
40	45	-	-	-
50	57	-	-	-
65	76	-	-	-
80	89	-	-	-
100	108	-	-	-
125	133	-	-	-
150	159	3.5	4.0	5.0
200	219	3.5	4.0	5.0
250	273	3.5	4.5	6.0
300	325	4.0	5.0	7.0
350	377	4.5	6.0	8.0
400	426	4.5	6.0	9.0
450	480	5.0	7.0	9.0
500	530	5.5	7.0	10
600	630	6.0	8.0	12
700	720	7.0	9.0	13
800	820	7.0	10	15
900	920	8.0	-	-
1000	1020	-	-	-
1100	1120	-	-	-
1200	1220	-	-	-

HG/T 21631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)			
		2.5	4.0	6.4	10.0
15	18	-	-	-	-
20	25	-	-	-	-
25	32	3.0	3.0	3.0	4.0
32	38	3.0	3.0	3.0	4.5
40	45	3.5	3.5	3.5	4.5
50	57	3.5	3.5	3.5	5.0
65	76	4.0	4.0	4.5	6.0
80	89	4.0	4.0	5.0	7.0
100	108	4.0	4.0	6.0	8.0
125	133	4.0	4.0	6.0	9.0
150	159	4.0	4.5	7.0	10
200	219	6.0	6.0	9.0	12
250	273	7.0	7.0	11	-
300	325	8.0	8.0	12	-
350	377	9.0	9.0	-	-
400	426	9.0	11	-	-
450	480	9.0	-	-	-
500	530	9.0	-	-	-
600	630	9.0	-	-	-
700	720	-	-	-	-
800	820	-	-	-	-
900	920	-	-	-	-
1000	1020	-	-	-	-
1100	1120	-	-	-	-
1200	1220	-	-	-	-

**OUTER DIAMETER AND WALL THICKNESS TABLE**  
**(PETROCHEMICAL SH PIPE FITTING STANDARD)**  
**外径尺寸和壁厚表(石化SH管件标准)**

外径尺寸和壁厚表(石化SH管件标准)  
 Outer Diameter And Wall Thickness Table (Petrochemical SH Pipe Fitting Standard)

mm

公称尺寸 Nominal Size	外径 OD	公称壁厚 T Nominal Wall Thickness T														
		Sch5S	Sch10s	Sch20s	Sch40s	Sch80s	Sch20	Sch30	Sch40	Sch60	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
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	-	-	-	5.0	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Note:  
 1)表号后带S者仅适用于不锈钢管件。  
 Schedule with the suffix "S" only applies for stainless steel.

**OUTER DIAMETER AND WALL THICKNESS  
(JIS B2311/B2312/B2313)**  
外径尺寸和壁厚表 (JIS B2311/B2312/B2313)

外径尺寸和壁厚表 (JIS B2311/B2312/B2313)  
Outer Diameter And Wall Thickness Table (JIS B2311/B2312/B2313)

mm

公称直径 Nominal Pipe size	外径 OD	公称壁厚 T Nominal Wall Thickness T																		
		DN	NPS	D	SGP	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
15	1/2	21.7	2.8	1.7	2.1	-	-	-	2.8	2.8	2.8	-	3.7	3.7	3.7	-	-	-	4.8	7.5
20	3/4	27.2	2.8	1.7	2.1	-	-	-	2.9	2.9	2.9	-	3.9	3.9	3.9	-	-	-	5.6	7.8
25	1	34.0	3.2	1.7	2.8	-	-	-	3.4	3.4	3.4	-	4.5	4.5	4.5	-	-	-	6.4	9.1
32	1 1/4	42.7	3.5	1.7	2.8	-	-	-	3.6	3.6	3.6	-	4.9	4.9	4.9	-	-	-	6.4	9.7
40	1 1/2	48.6	3.5	1.7	2.8	-	-	-	3.7	3.7	3.7	-	5.1	5.1	5.1	-	-	-	7.1	10.2
50	2	60.5	3.8	1.7	2.8	-	-	-	3.9	3.9	3.9	-	5.5	5.5	5.5	-	-	-	8.7	11.1
65	2 1/2	76.3	4.2	2.1	3.0	-	-	-	5.2	5.2	5.2	-	7.0	7.0	7.0	-	-	-	9.5	14.0
80	3	89.1	4.2	2.1	3.0	-	-	-	5.5	5.5	5.5	-	7.6	7.6	7.6	-	-	-	11.1	15.2
90	3 1/2	101.6	4.2	2.1	3.0	-	-	-	5.7	5.7	5.7	-	8.1	8.1	8.1	-	-	-	-	-
100	4	114.3	4.5	2.1	3.0	-	-	-	6.0	6.0	6.0	-	8.6	8.6	8.6	-	11.1	-	13.5	17.1
125	5	139.8	4.5	2.8	3.4	-	-	-	6.6	6.6	6.6	-	9.5	9.5	9.5	-	12.7	-	15.9	19.0
150	6	165.2	5.0	2.8	3.4	-	-	-	7.1	7.1	7.1	-	11.0	11.0	11.0	-	14.3	-	18.2	21.9
200	8	216.3	5.8	2.8	4.0	-	6.4	7.0	8.2	8.2	8.2	10.3	12.7	12.7	12.7	15.1	18.2	20.6	23.0	22.2
250	10	267.4	6.6	3.4	4.0	-	6.4	7.8	9.3	9.3	9.3	12.7	12.7	12.7	15.1	18.3	21.4	25.4	28.6	25.4
300	12	318.5	6.9	4.0	4.5	-	6.4	8.4	9.5	9.5	10.3	14.3	12.7	12.7	17.4	21.4	25.4	28.6	33.3	25.4
350	14	355.6	7.9	4.0	4.8	6.4	7.9	9.5	9.5	9.5	11.1	15.1	-	12.7	19.0	23.8	27.8	31.8	35.7	-
400	16	406.4	7.9	4.2	4.8	6.4	7.9	9.5	9.5	9.5	12.7	16.7	-	12.7	21.4	26.2	30.9	36.5	40.5	-
450	18	457.2	7.9	4.2	4.8	6.4	7.9	11.1	9.5	9.5	14.3	19.0	-	12.7	23.8	29.4	34.9	39.7	45.2	-
500	20	508.0	7.9	4.8	5.5	6.4	9.5	12.7	9.5	9.5	15.1	20.6	-	12.7	26.2	32.5	38.1	44.4	50.0	-
550	22	558.8	-	4.8	5.5	6.4	9.5	12.7	9.5	9.5	-	22.2	-	12.7	28.6	34.9	41.3	47.6	54.0	-
600	24	609.6	-	5.5	6.4	6.4	9.5	14.3	9.5	9.5	17.5	24.6	-	12.7	31.0	38.9	46.0	52.4	59.5	-
650	26	660.4	-	-	-	7.9	12.7	-	-	9.5	-	-	-	12.7	-	-	-	-	-	-
700	28	711.2	-	-	-	7.9	12.7	15.9	-	9.5	-	-	-	12.7	-	-	-	-	-	-
750	30	762.0	-	6.4	7.9	7.9	12.7	15.9	9.5	9.5	-	-	-	12.7	-	-	-	-	-	-
800	32	812.8	-	-	-	7.9	12.7	15.9	-	9.5	17.5	-	-	12.7	-	-	-	-	-	-
850	34	863.6	-	-	-	7.9	12.7	15.9	-	9.5	17.5	-	-	12.7	-	-	-	-	-	-
900	36	914.4	-	-	-	7.9	12.7	15.9	-	9.5	19.0	-	-	12.7	-	-	-	-	-	-
950	38	965.2	-	-	-	-	-	-	-	9.5	-	-	-	12.7	-	-	-	-	-	-
1000	40	1016.0	-	-	-	-	-	-	-	9.5	-	-	-	12.7	-	-	-	-	-	-
1050	42	1066.8	-	-	-	-	-	-	-	9.5	-	-	-	12.7	-	-	-	-	-	-
1100	44	1117.6	-	-	-	-	-	-	-	9.5	-	-	-	12.7	-	-	-	-	-	-
1150	46	1168.4	-	-	-	-	-	-	-	9.5	-	-	-	12.7	-	-	-	-	-	-
1200	48	1219.2	-	-	-	-	-	-	-	9.5	-	-	-	12.7	-	-	-	-	-	-

**OUTSIDE DIAMETER AND WALL THICKNESS TABLE  
(ANSI B36.10/B36.19 (FOR ALL MATERIALS))**  
外径尺寸和壁厚表(ANSI B36.10/B36.19(适用于所有材料))

外径尺寸和壁厚表(ANSI B36.10、B36.19)  
Outside Diameter And Wall Thickness Table (ANSI B36.10/B36.19)

mm

公称尺寸 Nominal size	外径 OD	公称壁厚 T Nominal Wall Thickness T																
		DN	NPS	OD	Sch5S	Sch10s	Sch10	Sch20	Sch30	Sch40s STD	Sch40	Sch60	Sch80s	Sch80	Sch100	Sch120	Sch140	Sch160
6	1/8	10.3	-	1.24	1.24	-	1.45	1.73	1.73	-	2.41	2.41	-	-	-	-	-	-
8	1/4	13.7	-	1.65	1.65	-	1.85	2.24	2.24	-	3.02	3.02	-	-	-	-	-	-
10	3/8	17.1	-	1.65	1.65	-	1.85	2.31	2.31	-	3.20	3.20	-	-	-	-	-	-
15	1/2	21.3	1.65	2.11	2.11	-	2.41	2.77	2.77	-	3.73	3.37	-	-	-	-	4.78	7.47
20	3/4	26.7	1.65	2.11	2.11	-	2.41	2.87	2.87	-	3.91	3.91	-	-	-	-	5.56	7.82
25	1	33.4	1.65	2.77	2.77	-	2.90	3.38	3.38	-	4.55	4.55	-	-	-	-	6.35	9.09
32	1 1/4	42.2	1.65	2.77	2.77	-	2.97	3.56	3.56	-	4.84	4.85	-	-	-	-	6.35	9.70
40	1 1/2	48.3	1.65	2.77	2.77	-	3.18	3.68	3.68	-	5.08	5.08	-	-	-	-	7.14	10.15
50	2	60.3	1.65	2.77	2.77	-	3.18	3.91	3.91	-	5.54	5.54	-	-	-	-	8.74	11.07
65	2 1/2	73.0	2.11	3.05	3.05	-	4.78	5.16	5.16	-	7.01	7.01	-	-	-	-	9.53	14.02
8	3	88.9	2.11	3.05	3.05	-	4.78	5.49	5.49	-	7.62	7.62	-	-	-	-	11.13	15.24
90	3 1/2	101.6	2.11	3.05	3.05	-	4.78	5.74	5.74	-	8.08	8.08	-	-	-	-	-	-
100	4	114.3	2.11	3.05	3.05	-	4.78	6.02	6.02	-	8.56	8.56	-	11.13	-	-	13.49	17.12
125	5	141.3	2.77	3.40	3.40	-	-	6.55	6.55	-	9.53	9.53	-	12.70	-	-	15.88	19.05
150	6	168.3	2.77	3.40	3.40	-	-	7.11	7.11	-	10.97	10.97	-	14.27	-	-	18.26	21.95
200	8	219.1	2.77	3.76	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	237.0	3.40	4.19	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	3.96	4.57	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	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	457.0	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	508.0	4.78	5.54	6.35	9.53	12.70	9.53	15.09	21.62	12.70	26.19	32.54	38.10	44.45	50.01	-	-
550	22	559.0	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	610.0	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	-	-
650	26	660.0	-	*7.92	7.92	12.70	-	9.53	-	-	12.70	-	-	-	-	-	-	-
700	28	711.0	-	*7.92	7.92	12.70	15.88	9.53	-	-	12.70	-	-	-	-	-	-	-
750	30	762.0	6.35	*7.92	7.92	12.70	15.88	9.53	-	-	12.70	-	-	-	-	-	-	-
800	32	813.0	-	*7.92	7.92	12.70	15.88	9.53	17.48	-	12.70	-	-	-	-	-	-	-
850	34	864.0	-	*7.92	7.92	12.70	15.88	9.53	17.48	-	12.70	-	-	-	-	-	-	-
900	36	914.0	-	*7.92	7.92	12.70	15.88	9.53	19.05	-	12.70	-	-	-	-	-	-	-
950	38	965.0	-	*7.92	-	-	-	9.53	-	-	12.70	-	-	-	-	-	-	-
1000	40	1016.0	-	*7.92	-	-	-	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	-	-	-	-	-	-	-	-	12.70	-	-	-	-	-	-	-
1300	52	1321.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1400	56	1422.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1500	60	1524.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-