



浙江杰德管业有限公司

ZHEJIANG JIEDE PIPELINE INDUSTRY CO.,LTD

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Zhejiang

WENZHOU

JIEDE

STAINLESS STEEL FITTINGS

浙江杰德管业有限公司

中国·浙江·温州

专业就是希望 品质保证一切
The speciality just hopes, quality guarantees everything



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我们深信，只有诚信服务，才能赢得客户
只有创造完美，才能打造品牌
殚精竭虑，为客户提供更多完美的新产品服务

We are convinced, only the integrity of services, customers can win
Only to create perfect, to build brand Rack one's brains
To provide customers with more perfect new products and services

专业就是希望 品质保证一切
The speciality just hopes, quality guarantees everything



Company 公司简介 Profile 司简介

浙江杰德管业有限公司创建于2009年，公司位于温州龙湾区，注册资金1000万元，占地面积9600m²，现有职工128人，技术人员10人，公司生产系列的不锈钢管件，如三通、弯头、异径管、管帽、翻边管、法兰等，品种规格齐全，工艺技术先进，产品质量稳定，是不锈钢管件的专业公司，公司产品畅销全国(包括香港、台湾)十几个省市和地区，按美标、德标和欧盟标准生产的产品远销美国、加拿大、德国、英国、法国和中东等国家，产品质量受到国内外客户的一致好评。

杰德管业公司共设6个科室和5个车间，科室有销售部、采购部、生产技术部、质量部、办公室和财务部。其中质量部由理化试验中心和检验室组成。各科室职责明确，既有明确的分工，又有有机的协调，确保企业稳步提高；车间有下料车间，成型车间，焊接热处理车间、精工车间和酸洗抛车间；分别担负管件制造的各个工序，由于车间按工序进行划分，便于开展专业化、系列化生产，有效促进生产效率和产品质量的稳定提高。

公司于2009年开始进行质量保证体系的贯标认证工作，当年7月ISO9001-2008标准的认证证书，并于2012年3月取得德国TUV颁发的AD规范W0材料认证证书和欧盟PED97/23/EC (欧盟承压设备指令) 产品认证证书，通过体系和产品的认证，2013年1月取得了国家质量监督检验检疫总局颁发的压力管元件A级生产许可证，促使公司的企业管理不断得到完善和提高，在同行业中享有较高知名度。

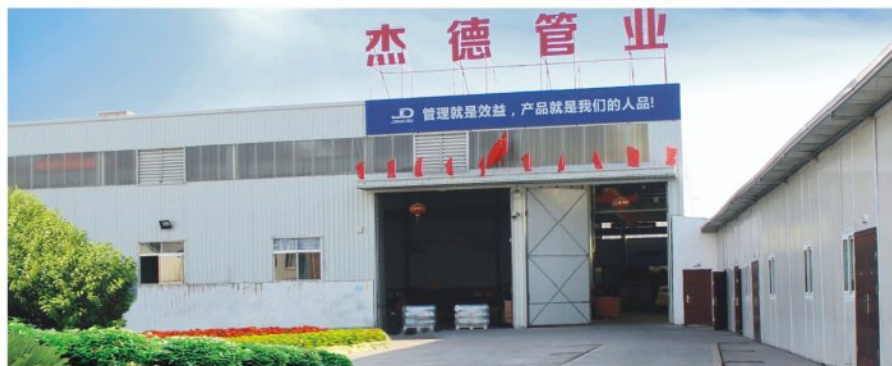
杰德管业本着以人为本、诚信经营，以国内外市场为导向，不断加强同国内外企业的交流和合作，充分发挥人才、技术的优势，努力争创杰德品牌，树一流企业形象，在国内外不锈钢管件行业中不断迈出新步伐！

Zhejiang Jiede Pipe Co., Ltd. has been established in Jan., 2009, which locates in Longwan District, Wenzhou City, Zhejiang Province, P.R. China. The registered capital is ten millions in RMB. The working area is 8600 square meters. There are more than 100 employees in company that is including ten technicians or experts. We focus on fabrication of stainless steel fittings such as tee, elbow, eccentric reducer, cap, stub end, flanges and etc. Our product have been sales in all China including Hongkong, Taiwan. Our products also export to USA, Canada, Germany, France, Middle Eastern Asia area, etc. The company has advanced production technical process and equipments to produce, inspect and test on fittings. The fittings can be fabricated and certified in according to EN, DIN, ASME and GB standards. The quality of fitting is first in our company.

There are six departments and five workshops in company include Sales department, Purchasing department, Production Technology department, Quality Control department, Affairs Office and Finance department. There are Physical and Chemical Testing center and Inspection section in our QC department. The responsibilities of all department have been clearly defined in company. The management system is active and efficient in company, and continuous to improve. There are five workshop have been established in according to fabrication process of fittings including Material Preparation Workshop, Forming workshop, Welding workshop, Heat treatment workshop, Machining workshop and Polishing & pickling Workshop. The production efficiency and product quality have been improved continuously on product.

The Quality Assurance System have been established and certified in according to ISO9001-2008 in July 2009. Our produce has been evaluated and certified by TUV SUD in according to AD2000 W0 and PED97/23/EC Annex I Para 4.3 on March 2012, and certified by General Administration of Quality Supervision, Inspection and Quarantine in according to TS on January 2013.

Zhejiang Jiede Pipe Co., Ltd. is focus on people life and honest sale in market. The client requirement is priority and we will try our best to meet requirement of client and relative product standards. The product quality always is first in our company. We wish try to our best to win marketing by our high quality of product and good reputation.



荣誉 资质 Qualification Honors



公司的质量方针、质量目标

质量方针——积极进取,创造一流,满足顾客实际要求

质量目标——产品质量合格率100%

售后服务满意率100%

质量体系改进目标完成100%

The Company's Quality Policy, Quality Objectives

Quality Policy

Proactive, Create First-class, To Meet Customer Requirements

Quality Target

Product Quality Passing Rate Of 100%

After Sale Service Satisfaction Rate Of 100%

The Improvement Of Quality System Target Completion 100%



证书

TÜV SÜD 管理服务有限公司
认证部
兹证明

浙江杰德管业有限公司
中国浙江省温州市龙湾区海滨街道河泥荡路89号
邮编: 325024

在以下适用范围
建立和实施了质量管理体系

不锈钢管件和法兰的制造与销售

通过审核, 报告号: 707006360

证明该体系满足

ISO 9001:2008

的要求。本证书的有效有效期至2016年02月20日

证书注册号: 12 100 45123 TMS

慕尼黑, 2013年02月22日



QMS-TGA-ZM-07-92

TÜV SÜD Management Service GmbH • Zertifizierungsstelle • Ridlerstraße 65 • 80339 München • Germany

TUV®



CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that

Zhejiang Jiede Pipeline Industry Co., Ltd.
No. 89, Henidang Road, Haibin Street, Longwan District
Wenzhou City, Zhejiang Province, P. R. China
Post Code: 325024

has established and applies
a Quality Management System for

Manufacture and Sales of Stainless Steel Fittings and Flanges

An audit was performed, Report No. 707006360

Proof has been furnished that the requirements
according to

ISO 9001:2008

are fulfilled. The certificate is valid until 2016-02-20

Certificate Registration No. 12 100 45123 TMS

Munich, 2013-02-22



QMS-TGA-ZM-07-92

TÜV SÜD Management Service GmbH • Zertifizierungsstelle • Ridlerstraße 65 • 80339 München • Germany

TUV®

中华人民共和国
特种设备制造许可证
Manufacture License of Special Equipment
People's Republic of China

(压力管道元件)

编号: TS271011A-2017

单位名称: 浙江杰德管业有限公司

制造地址: 浙江省温州市龙湾区海滨街道河泥荡路 89 号

经审查, 获准从事下列压力管道元件的制造:

级别	品种范围	备注
A(1)、B 级	钢制无缝管件	
B1(1) 级	钢制有缝管件 (钢板制对焊管件)	
B 级	锻制法兰及管接头 (限机械加工)	

审批机关: 国家质量监督检验检疫总局

有效期至: 2017 年 3 月 10 日

发证机关:

发证日期: 2013 年 3 月 11 日



国家质量监督检验检疫总局制

ZERTIFIKAT ♦ CERTIFICATE ♦ CERTIFICADO ♦ CERTIFICAT ♦ СЕРТИФИКАТ ♦ 認證證書



Industrie Service

CERTIFICATE

The Certification Body - 0036 -
of TÜV SÜD Industrie Service GmbH

certifies that

Zhejiang Jiede Pipeline Industry Co., Ltd

No. 89, Hennidang Road, Haibin Street, Longwan District,
Wenzhou City, 325024, Zhejiang Province, P. R. China

has implemented, operates and maintains a

Quality Assurance System in accordance with the
Pressure Equipment Directive 97/23/EC,
Annex I, Section 4.3 and AD 2000-Merkblatt W 0
as well as EN 764-5, Para. 4.2

as a material manufacturer for the scope of

flanges and fittings in austenitic steels.

The scope of the approval is described in the annex to this certificate.
Further details are mentioned in report no. 214313.

The manufacturer is therefore authorized to issue certificates of specific product
control within the scope of the assessed quality system and in accordance with
the Pressure Equipment Directive 97/23/EC. Possible additional requirements -
specific to applied technical specifications to meet PED Annex I - are not af-
fected.

This certificate is valid through March 2015.

In order to adhere the validity an annual surveillance audit is required.

The validity of this certificate is connected to a valid certification in accordance
with ISO 9001:2008.

Certificate No.: DGR-0036-QS-W 516/2012/MUC
Munich, March 15th, 2013 (Rev. 1)

TÜV SÜD Industrie Service GmbH
Certification Body for Pressure Equipment

(M. Sigl)



Notified Body, No. 0036

TÜV SÜD Industrie Service GmbH, Department Material and Welding Technology
Westendstr. 199, 80686 Munich

TUV®



Equipment 设备 Testing 检测



WAS进口便携光谱仪
WAS Pmi



光谱测试
Spectrum test



硬度检测
Hardness Inspection
And Testing



厚度检测
Thickness Inspection
And Testing

生产 设备 Equipment Production



拉伸试验机
Tensile testing machine



低温冲击试验机动
Low temperature impact test motor



精加工车间
Machining workshop



成型车间
Molding workshop



固溶化热处理车间
Solution Treatment



大型冷推机设备
Large elbow cold push machines



弯头冷推机设备
Small elbow cold push machines



RANGE APPLICATION 应用范围

Products are widely used in papermaking, chemical industry, shipbuilding, petroleum, electric power, food, pharmaceutical, natural gas, metallurgy, construction, sewage treatment and other industries.

产品广泛应用于造纸、化工、造船、石油、电力、食品、制药、天然气、冶金、建筑、污水处理等行业。





不锈钢长半径弯头 ELB45LR

执行标准 Implement standard:
ASME/ANSI B16.9
GB 12459 GB/T13401
SH3408-96 SH3409-96
产品材料 Material quality of product:
304, 304L, 316L, 321等材质
口径大小 Diameter range
1/2" ~48"



不锈钢长半径弯头 ELB90LR

执行标准 Implement standard:
ASME/ANSI B16.28
GB 12459 GB/T13401
SH3408-96 SH3409-96
产品材料 Material quality of product:
304, 304L, 316L, 321等材质
口径大小 Diameter range
1/2" ~48"



不锈钢管帽 CAP

执行标准 Implement standard:
ASME/ANSI B16.9
GB 12459 GB/T13401
SH3408-96 SH3409-96
产品材料 Material quality of product:
304, 304L, 316L, 321等材质
口径大小 Diameter range
1/2" ~48"



不锈钢法兰 Finge

执行标准 Implement standard:
HG/T20592-20635
GB/T9112-9124-2000
产品材料 Material quality of product:
304, 304L, 316L, 321等材质



不锈钢等径三通 TEE

执行标准 Implement standard:
ASME/ANSI B16.9
GB 12459 GB/T13401
SH3408-96 SH3409-96
产品材料 Material quality of product:
304, 304L, 316L, 321等材质
口径大小 Diameter range
1/2" ~48"



不锈钢翻边短接 LAP

执行标准 Implement standard:
MSS SP-43 ASME/ANSI
B16.9 (Saori) (Long)
GB 12459 (短型) (长型)
产品材料 Material quality of product:
304, 304L, 316L, 321等材质
口径大小 Diameter range
1/2" ~36"



不锈钢同心异径管 CONC.RED

执行标准 Implement standard:
ASME/ANSI B16.9
GB 12459 GB/T13401
SH3408-96 SH3409-96
产品材料 Material quality of product:
304, 304L, 316L, 321等材质
口径大小 Diameter range
1/2" ~48"



不锈钢偏心异径管 ECC.RED

执行标准 Implement standard:
ASME/ANSI B16.9
GB 12459 GB/T13401
SH3408-96 SH3409-96
产品材料 Material quality of product:
304, 304L, 316L, 321等材质
口径大小 Diameter range
1/2" ~48"

团队
精神
TEAM SPIRIT



个人的智慧，仅是草尖露珠；
集体的智慧，才是长河流水。

在今天，团队精神成为各企业的核心，一个有高度竞争力的组织，包括企业，不但要求有完美的个人，更要有完美的团队。无数的个人精神，凝聚成一种团队精神，我们才能兴旺发达，基业长青。





流程、质量 控制图

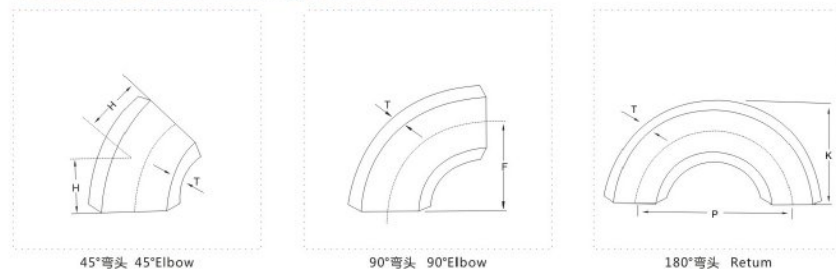


浙江杰德管业有限公司 管件工艺流程及质量控制图





ASME/ANSI 对焊弯头 ASME/ANSI Butt-Welding Elbows and Returns



45°弯头 45°Elbow

90°弯头 90°Elbow

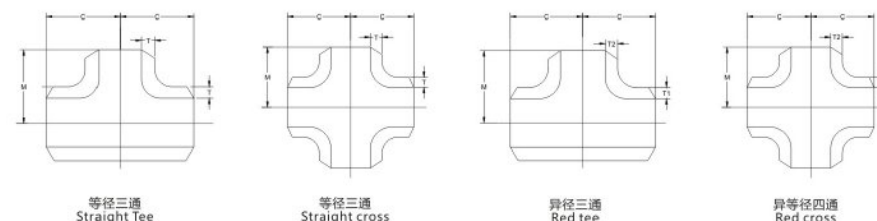
180°弯头 Return

对焊弯头 ASME/ANSI B16.9、B16.28 Butt-Welding Elbows and Returns

公称通径 Nominal pipe size Nps	端部外径 Outside Diameter at bevel D	中心至端面 Genter to end			中心至中心 Genter to Genter		背面至端面 Back to Faces	
		46°弯头Elbows			90°弯头Elbows		180°弯头 Return	
		H 长半径 Long Radius	F 长半径 Long Radius	短半径 Short Radius	P 长半径 Long Radius	短半径 Short Radius	K 长半径 Long Radius	短半径 Short Radius
1/2	21.3	16	38	—	76	—	48	—
3/4	26.7	19	38	—	76	—	51	—
1	33.4	22	38	25	76	51	56	41
1 1/4	42.2	25	48	32	95	64	70	52
1 1/2	48.3	29	57	38	114	76.2	83	62
2	60.3	35	76	51	152	102	106	81
2 1/2	73.0	44	95	64	190	127	132	100
3	88.9	51	114	76	229	152	159	121
3 1/2	101.6	57	133	89	267	177	184	140
4	114.3	64	152	102	305	203	210	159
5	141.3	79	190	127	381	254	262	197
6	168.3	95	229	152	457	305	313	237
8	219.1	127	305	203	610	406	414	313
10	273.1	159	381	254	762	508	518	391
12	323.8	190	457	305	914	610	619	467
14	355.6	222	533	356	1067	711	711	533
16	406.4	254	610	406	1219	813	813	610
18	457	286	686	457	1372	914	914	686
20	508	318	762	508	1524	1016	1016	762
22	559	343	838	559	1676	1118	1118	838
24	610	381	914	610	1829	1219	1219	914
26	660	406	991					
28	711	438	1067					
30	762	470	1143					
32	813	502	1219					
34	864	533	1295					
36	914	565	1372					
38	965	600	1448					
40	1016	632	1524					
42	1067	660	1600					
44	1118	695	1676					
46	1168	727	1753					
48	1219	759	1829					

注：1）表中半径弯头取自ASME/ANSI B16.9-2001

ASME/ANSI 对焊等径/异径三通、四通 ASME/ANSI Butt-Welding Straight/Reducing Tees and Crosses



等径三通
Straight Tee

等径三通
Straight cross

异径三通
Red tee

异径四通
Red cross

对焊等径三通、四通 ASME/ANSI B16.9 Butt-Welding Straight Tees and Crosses

公称通径 Nominal pipe size Nps	端部外径 Outside Diameter at bevel D	中心至端面 Genter to End	
		C	M
1/2	21.3	25	
3/4	26.7	29	
1	33.4	38	
1 1/4	42.2	48	
1 1/2	48.3	57	
2	60.3	64	
2 1/2	73.0	76	
3	88.9	86	
3 1/2	101.6	95	
4	114.3	105	
5	141.3	124	
6	168.3	143	
8	219.1	178	
10	273.1	216	
12	323.8	254	
14	355.6	279	
16	406.4	305	
18	457	343	
20	508	381	
22	559	419	
24	610	432	
26	660	495	
28	711	521	
30	762	559	
32	813	597	
34	864	635	
36	914	673	
38	965	711	
40	1016	749	
42	1067	762	711
44	1118	813	762
46	1168	851	800
48	1219	889.0	838

对焊等径三通、四通 ASME/ANSI B16.9 Butt-Welding Reding Tees and Resucing Crosses

公称通径 Nominal pipe size Nps (in)	端部外径 Outside Diameter at bevel D	中心至端面 Genter to End	
		C	M
1/2X3/8	21.3x17.1		
1/2X1/4	21.3x13.7		25
3/4X1/2	26.7x21.3		
3/4X3/8	26.7x17.1		29
1x3/4	33.4x26.7		
1x1/2	33.4x21.3		38
1 1/4 x1	42.2x33.7		
1 1/4 x3/4	42.2x26.7		48
1 1/4 x1/2	42.2x21.3		
1 1/2 x1 1/4	48.3x42.2		
1 1/2 x1	48.3x33.4		57
1 1/2 x3/4	48.3x26.7		
1 1/2 x1/2	48.3x21.3		
2x1 1/2	60.3x48.3		
2x1 1/4	60.3x42.2		64
2x1	60.3x33.4		
2x3/4	60.3x26.7		44
2 1/2 x2	73.0x60.3		70
2 1/2 x1 1/2	73.0x48.3		67
2 1/2 x1 1/4	73.0x42.2		64
2 1/2 x1	73.0x33.4		57
3/2 x2 1/2	88.9x73.0		83
3x2	88.9x60.3		76
3x1 1/2	88.9x48.3		73
3x1 1/4	88.9x42.2		70
3 1/2 x3	101.6x88.9		92
3 1/2 x2 1/2	101.6x73.0		89
3 1/2 x2	101.6x60.3		83
3 1/2 x1 1/2	101.6x48.3		79
4x3 1/2	114.3x101.6		102
4x3	114.3x88.9		98
4x2 1/2	114.3x73.0		95
4x2	114.3x60.3		89



ASME/ANSI 对焊等径/异径三通、四通
ASME/ANSI Butt-Welding Straight/Reducing Tees and Crosses

◎对焊等径三通、四通 ASME/ANSI B16.9 Butt-Welding Reducing Tees and Resucinf Crosses

公称通径 Nominal pipe size Nps (in)	端部外径 Outside Diameter at bevel	中心至端面 Genter to End	
		D1XD2	C M
4x1½	114.3X48.3	105	86
5X4	141.3X114.3	124	117
5X3½	141.3X106.6		114
5X3	141.3X88.9	124	111
5X2½	141.3X73.0	124.0	108
5X2	141.3X60.3		105
6X5	168.3X141.3		137
6X4	168.3X114.3		130
6X3½	168.3X101.6	143	127
6X3	168.3X88.9	142.7	124
6X2½	168.3X73.0		121
8X6	219.1X168.3		168
8X5	219.1X141.3	178	162
8X4	219.1X114.3	177.8	156
8X3½	219.1X101.6		152
10X8	273.1X219.1		203
10X6	273.0X168.3	216	194
10X5	273.0X141.3	215.9	191
10X4	273.0X114.3		184
12X10	323.8X273.1		241
12X8	323.8X219.1	254	229
12X6	323.8X168.3	254.0	219
12X5	323.8X141.3		216
14X12	355.6X323.8		270
14X10	355.6X273.0	279	257
14X8	355.6X219.1	279.4	248
14X6	355.6X168.3		238
16X14	406.4X355.6		305
16X12	406.4X323.8	305	295
16X10	406.4X273.0	304.8	283
16X8	406.4X219.1		273
16X6	406.4X168.3		264
18X16	457X406.4		330
18X14	457X355.6	343.3	330
18X12	457X323.8	342.9	321
18X10	457X273.0		308
18X8	457X219.1		298
20X18	508X457		368
20X16	508X406.4	381	356
20X14	508.0X355.6		356
20X12	508X323.8	381.0	346
20X10	508.0X273.0	381	333
20X8	508.0X219.1		324
22X20	559X508.0		406
22X18	559X457	419	394
22X16	559X406.4	419.1	381

公称通径 Nominal pipe size Nps (in)	端部外径 Outside Diameter at bevel	中心至端面 Genter to End	
		D1XD2	C M
22X14	559X355.6		381
22X12	559X323.8	419	371
22X10	559X273.0		359
24X22	610X559		432
24X20	610X508		432
24X18	610X457	432	419
24X16	610X406.4		406
24X14	610X355.6	431.8	406
24X12	610X323.8		397
24X10	610X273.0		384
26X24	660X610		483
26X22	660X559		470
26X20	660X508	495	457
26X18	660X457		444
26X16	660X406.4	495.3	432
26X14	660X355.6		432
26X12	660X323.8		422
28X26	711X660		521
28X24	711X610		508
28X22	711X559		495
28X20	711X508	521	483
28X18	711X457		470
28X16	711X406.4	520.7	457
28X14	711X355.6		457
28X12	711X323.8		448
30X28	762X711		546
30X26	762X660		546
30X24	762X610		533
30X22	726X559		521
30X20	762X508	559	508
30X18	762X457		495
30X16	762X406	558.8	483
30X14	762X355.6		483
30X12	762X323.8		473
30X10	762X273.1		460
32X30	813X762		584
32X28	813X711		572
32X26	813X660		572
32X24	813X610	597	559
32X22	813X559		546
32X20	813X508	596.9	533
32X18	813X457		521
32X16	813X406.4		508
32X14	813X355.6		508
34X32	864X813		622
34X30	864X762	635	610

ASME/ANSI 对焊等径/异径三通、四通
ASME/ANSI Butt-Welding Straight/Reducing Tees and Crosses

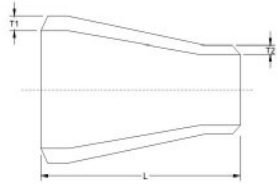
◎对焊同心、偏心异径管 ASME/ANSI B16.9 Butt-Welding concentric & Eccentric Reducers

公称通径 Nominal pipe size Nps (in)	端部外径 Outside Diameter at bevel	中心至端面 Genter to End	
		D1XD2	C M
34X28	864X711		597
34X26	864X660		597
34X24	864X610	635	584
34X22	864X559		572
34X20	864X508	635.0	559
34X18	864X457		546
34X16	864X406.4		533
36X34	914X864		660
36X32	914X813		648
36X30	914X762		635
36X28	914X711	673	622
36X26	914X660		622
36X24	914X609	673.1	610
36X22	914X559		597
36X20	914X508		584
36X18	914X457		572
36X16	914X406.4		559
38X36	956X914		711
38X34	965X864		698
38X32	965X813		686
38X30	965X762	711	673
38X28	965X711		648
38X26	965X660	711.2	648
38X24	965X610		635
38X22	965X559		622
38X20	965X508		610
38X18	965X457		597
40X38	1016X965		749
40X36	1016X914		737
40X34	1016X864		724
40X32	1016X813	749	711
40X30	1016X762		698
40X28	1016X711	749.3	673
40X26	1016X660		673
40X24	1016X610		660
40X22	1016X559		648
40X20	1016X508		635
40X18	1016X457		622
42X40	1016X1016		711
42X38	1016X968		711
42X36	1067X914	762	711
42X34	1016X864		711
42X32	1067X813	762.0	711
42X30	1067X762		711

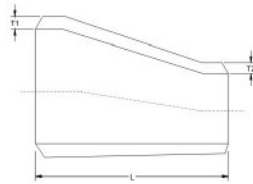
公称通径 Nominal pipe size Nps (in)	端部外径 Outside Diameter at bevel	中心至端面 Genter to End	
		D1XD2	C M
42X28	1067X711		698
42X26	1067X660		698
42X24	1067X610	762	660
42X22	1067X559		660
42X20	1067X508	762.0	660
42X18	1067X457		648
42X16	1067X406.4		635
44X42	1118X1067		762
44X40	1118X1016		749
44X38	1118X965		737
44X36	1118X914		724
44X34	1118X864		724
44X32	1118X813	813	711
44X30	1118X762		711
44X28	1118X711	812.3	698
44X26	1118X660		698
44X24	1118X610		688
44X22	1118X559		685
44X20	1118X508		686
46X44	1168X1118		800
46X42	1168X1067		787
46X40	1168X1016		775
46X38	1168X965		762
46X36	1168X914		762
46X34	1168X864	851	749
46X32	1168X813		749
46X30	1168X762	850.9	737
46X28	1168X711		737
46X26	1168X660		737
46X24	1168X610		724
46X22	1168X559		724
48X46	1219X1168		838
48X44	1219X1118		838
48X42	1219X1067		813
48X40	1219X1016		813
48X38	1219X965		813
48X36	1219X914	889	787
48X34	1219X864		787
48X32	1219X813	889.0	787
48X30	1219X762		762
48X28	1219X711		762
48X26	1219X660		762
48X24	1219X610		737
48X22	1219X559		737



ASME/ANSI 对焊同心、偏心异径管 ASME/ANSI Butt-Welding Concentric & Eccentric Reducers



同心异径管
concentric Reducer



偏心异径管
Eccentric Reducer

对焊同心、偏心异径管 ASME/ANSI B16.9 Butt-Welding concentric & Eccentric Reducers

公称通径 Nominal pipe size Nps (in)	端部外径 Outside Diameter at bevel D1XD2	长度 End to End L
3/4X1/2 3/4X3/8	26.7X21.3 26.7X17.3	38
1X3/4 1X1/2	33.4X26.7 33.4X21.3	51
1 1/4 X1 1 1/4 X3/4 1 1/4 X1/2	42.2X33.4 42.2X26.7 42.2X21.3	51
1 1/2 X1 1/4 1 1/2 X1 1 1/2 X3/4 1 1/2 X1/2	48.3X42.2 48.3X33.4 48.3X26.7 48.3X21.3	64
2X1 1/2 2X1 1/4 2X1 2X3/4	60.3X48.3 60.3X42.23 60.3X33.4 60.3X26.7	76
2 1/2 X2 2 1/2 X1 1/2 2 1/2 X1 1/4 2 1/2 X1	73.0X60.3 73.0X48.3 73.0X42.2 73.0X33.4	89
3X2 1/2 3X2 3X1 1/2 3X1 1/4	88.9X73.0 88.9X60.3 88.9X48.3 88.9X42.2	89
3 1/2 X3 3 1/2 X2 1/2 3 1/2 X2 3 1/2 X1 1/2 3 1/2 X1 1/4	101.6X88.9 101.6X73.0 101.6X60.3 101.6X48.3 101.6X42.2	102
4X3 1/2 4X3	114.3X101.6 114.3X88.9	102

公称通径 Nominal pipe size Nps (in)	端部外径 Outside Diameter at bevel D1XD2	长度 End to End L
4X2 1/2 4X2 4X1 1/2	114.3X73.0 114.3X60.3 114.3X48.3	102
5X4 5X3 1/2 5X3 5X2 1/2 5X3	141.3X114.3 141.3X101.6 141.3X88.9 141.3X73.0 141.3X60.3	127
6X5 6X4 6X3 1/2 6X2 6X2 1/2	168.3X141.3 168.3X114.3 168.3X101.6 168.3X88.9 168.3X73.0	140
8X6 8X5 8X4 8X3 1/2	219.1X168.3 219.1X141.3 219.1X114.3 219.1X101.6	152
10X8 10X6 10X5 10X4	273.0X219.1 273.0X168.3 273.0X141.3 273.0X114.3	178
12X10 12X8 12X6 12X5	323.8X273.1 323.8X219.1 323.8X168.3 323.8X141.3	203
14X12 14X10 14X8 14X6	355.6X323.8 355.6X273.0 355.6X219.1 355.6X168.3	330
16X14	406.4X355.6	356

ASME/ANSI 对焊同心、偏心异径管 ASME/ANSI Butt-Welding Concentric & Eccentric Reducers

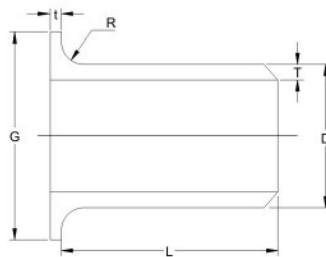
对焊同心、偏心异径管 ASME/ANSI B16.9 Butt-Welding concentric & Eccentric Reducers

公称通径 Nominal pipe size Nps (in)	端部外径 Outside Diameter at bevel D1XD2	长度 End to End L
16X12 16X10 16X8	406.4X323.8 406.4X273.0 406.4X219.1	356
18X16 18X14 18X12 18X10	457X406.4 457X355.6 457X323.8 457X273.0	381
20X18 20X16 20X14 20X12	508X457 508X406.4 508X355.6 508X323.6	508
22X20 22X18 22X16 22X12	559X508 559X457 559X406.4 559X335.4	508
24X22 24X20 24X18 24X16	610X559 610X508 610X457 610X406.4	508
26X24 26X22 26X20 26X18	660X610 660X559 660X508 660X457	610
28X26 28X24 28X20 28X18	711X660 711X610 711X508 711X457	610
30X28 30X26 30X24 30X20	762X711 762X660 762X610 762X508	610
32X30 32X28 32X26 32X24	813X762 813X711 813X660 813X610	610
34X32 34X30	864X813 864X763	610

公称通径 Nominal pipe size Nps (in)	端部外径 Outside Diameter at bevel D1XD2	长度 End to End L
34X26 34X24	864X660 864X610	610
36X24 36X32 36X30 36X26 36X24	914X864 914X813 914X762 914X660 914X610	610
38X36 38X34 38X32 38X30 38X28 38X26	965X914 965X864 965X813 965X762 965X711 965X660	610
40X38 40X36 40X34 40X32 40X30	1016X965 1016X914 1016X864 1016X813 1016X762	610
42X40 42X38 42X36 42X34 42X32 42X30	1067X1016 1067X965 1067X914 1067X864 1067X813 1067X762	610
44X42 44X40 44X38 44X36	1118X1067 1118X1016 1118X965 1118X914	610
46X44 46X42 46X40 46X38 46X36	1168X1118 1168X1067 1168X1016 1168X965	711
48X46 48X44 48X42 48X40	1219X1168 1219X1118 1219X1067 1219X1016	711



ASME/ANSI 翻边短接
ASME/ANSI Lap Jiont Stud Ends



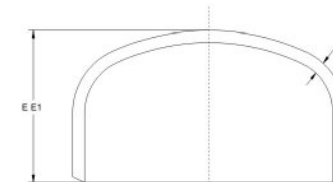
翻边短接 Crimp pup joint

翻边短接 MSS SP-43, ASNE/ANSI B16.9
Lap Jiont stud Ends

公称通径 Nominal pipe size Nps	端部外径 Outxide Diameter at bevel	长度 L End to End		圆角半径 Radius of Fillet		搭接直径 Diameter of lap
				A型	B型	
		D	MSS SP-43	ASME	R	G
1/2	21.3	51	76	3	0.8	35
3/4	26.7	51	76	3	0.8	43
1	33.4	51	102	3	0.8	51
1 1/4	42.2	51	102	5	0.8	64
1 1/2	48.3	51	102	6	0.8	73
2	60.3	64	152	8	0.8	92
2 1/2	73.0	64	152	8	0.8	105
3	88.9	64	152	10	0.8	127
3 1/2	101.6	76	152	10	0.8	140
4	114.3	76	152	11	0.8	157
5	141.3	76	203	11	1.6	186
6	168.3	89	203	13	1.6	216
8	219.1	102	203	13	1.6	270
10	273.0	127	254	13	1.6	324
12	323.8	152	254	13	1.6	381
14	355.6	152	305	13	1.6	413
16	406.4	152	305	13	1.6	470
18	457.0	152	305	13	1.6	533
20	508.0	152	305	13	1.6	584
22	559	152	305	13	1.6	641
24	610	152	305	13	1.6	692

- 注：1)、搭接厚度t不小于公称壁厚，当采用棒槽面、凹凸面等密封面时，必须增加搭接厚度。
2)、适用于与sch40s或更薄的不锈钢管子联接。
3)、R尺寸符合ANSI B16.5中搭接法兰凸缘所规定的半径，请订货时注明圆角半径的型式。
4)、L或G尺寸有要求时，请订货时说明。
*圆每半径R只对MSS SP-43翻边短接有效。

ASME/ANSI 对焊管帽
ASME/ANSI Butt-Welding Caps



管帽 Caps

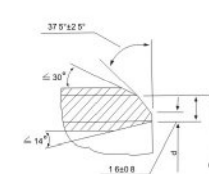
对焊管帽 ASNE/ANSI B16.9
Butt-Welding Caps

公称通径 Nominal pipe size Nps (in)	端部外径 Outxide Diameter at bevel	全长 LENGTH		对尺寸E的 限制厚度 limigimig wall Thidkness for Langth E
		D	E	E1
1/2	21.3	25	25	4.57
3/4	26.7	25.4	25	3.91
1	33.4	38	38	4.57
1 1/4	42	38	38	4.83
1 1/2	48.3	38	38	5.08
2	60.3	38	44	5.59
2 1/2	73.0	38	51	7.11
3	88.9	51	64	7.62
3 1/2	101.6	64	76	8.13
4	114.3	64	76	8.64
5	141.3	76.2	89	9.65
6	168.3	89	102	10.92
8	219.1	102	127	12.70
10	273.0	127	152	12.70
12	323.8	152	178	12.70
14	355.6	165	171	12.70
16	406.4	178	203	12.70

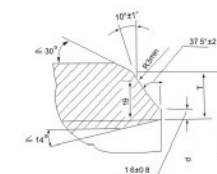
公称通径 Nominal pipe size Nps (in)	端部外径 Outxide Diameter at bevel	全长 LENGTH		对尺寸E的 限制厚度 limigimig wall Thidkness for Langth E
		D	E	E1
18	457	203	229	12.70
20	508	229	254	12.70
22	559	254	254	12.70
24	610	267	305	12.70
26	660	267	-	-
28	711	267	-	-
30	762	267	-	-
32	813	267	-	-
34	864	267	-	-
36	914	267	-	-
38	965	305	-	-
40	1067	305	-	-
42	1066.8	305	-	-
44	1118	343	-	-
46	1168	343	-	-
48	1219	343	-	-

注：管帽的全长不大于限制厚度时为E,超过限制厚度为E1

ASME/ANSI B16.28规定的对焊管件端口的结构型式
End prepration of Butt-welding fittings to ASME/ANSI B16.9, B16.28



(a)壁厚 ≤ 22

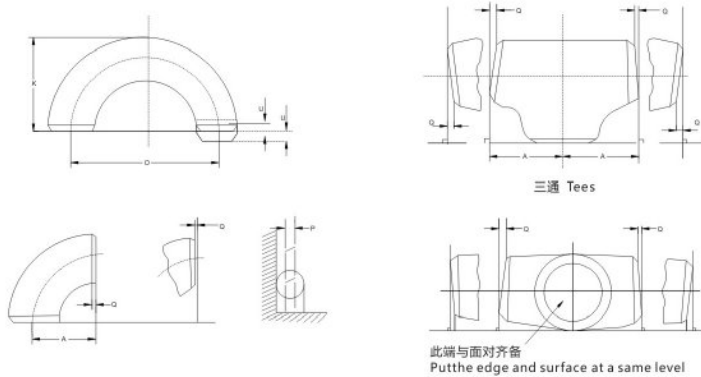


(b)壁厚 ≥ 22



ASME/ANSI 对焊管件形位公差表

ASME/ANSI Table of Form and Position Tolerance of Butt-Welded Pipe Fittings



ANSI 外径尺寸和壁厚表

ANSI Table of Outside Dimension and Wall Thickness

◎ 外径尺寸和壁厚表 ANSI B36.10、B36.19
Table of outside Dimension and wall Thickness ANSI B36.10 B36.19

公称直径 mm	管外径 in	管外径 mm	ANSI B36.10 B36.19																
			Sch5s	Sch10s	Sch10	Sch20	Sch30	Sch40s	STD	Sch40	Sch60	Sch80s	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
6	1/8	10.29	-	1.24	-	-	-	1.73	1.73	1.73	-	2.41	2.41	2.41	-	-	-	-	-
8	1/4	13.71	-	1.65	-	-	-	2.24	2.24	1.73	-	3.02	3.02	3.02	-	-	-	-	-
10	3/8	17.14	-	1.65	-	-	-	2.31	2.31	2.31	-	3.20	3.20	3.20	-	-	-	-	-
15	1/2	21.34	1.65	2.11	-	-	-	2.77	2.77	2.77	-	3.73	3.73	3.73	-	-	-	4.78	7.47
20	3/4	26.67	1.65	2.44	-	-	-	2.87	2.87	2.87	-	3.91	3.91	3.91	-	-	-	5.56	7.80
25	1	33.40	1.65	2.77	-	-	-	3.38	3.38	3.38	-	4.55	4.55	4.55	-	-	-	6.35	9.09
32	1 1/4	42.16	1.65	2.77	-	-	-	3.56	3.56	3.56	-	4.85	4.85	4.85	-	-	-	6.35	9.70
40	1 1/2	48.26	1.65	2.77	-	-	-	3.68	3.68	3.68	-	5.08	5.08	5.08	-	-	-	7.14	10.16
50	2	60.33	1.65	2.77	-	-	-	3.91	3.91	3.91	-	5.54	5.54	5.54	-	-	-	8.74	11.07
65	2 1/2	73.03	2.11	3.05	-	-	-	5.16	5.16	5.16	-	7.01	7.01	7.01	-	-	-	9.52	14.02
80	3	88.90	2.11	3.05	-	-	-	5.49	5.49	5.49	-	7.62	7.62	7.62	-	-	-	11.13	15.24
90	3 1/2	101.60	2.11	3.05	-	-	-	5.74	5.74	5.74	-	8.08	8.08	8.08	-	-	-	-	-
100	4	114.30	2.11	3.05	-	-	-	6.02	6.02	6.02	-	8.56	8.56	8.56	-	11.13	-	13.49	17.12
125	5	141.30	2.77	3.40	-	-	-	6.55	6.55	6.55	-	9.52	9.52	9.52	-	12.70	-	15.88	19.05
150	6	168.28	2.77	3.40	-	-	-	7.11	7.11	7.11	-	10.97	10.97	10.97	-	14.27	-	18.26	21.95
200	8	219.08	2.77	3.76	-	6.35	7.04	8.18	8.18	8.18	10.31	12.70	12.70	12.70	15.09	18.26	20.62	23.01	22.22
250	10	273.05	3.40	4.19	-	6.35	7.80	9.27	9.27	9.27	12.70	12.70	12.70	15.09	18.26	21.44	25.40	28.58	25.40
300	12	323.85	3.96	4.57	-	6.35	8.38	9.25	9.52	10.31	14.27	12.70	12.70	17.47	21.44	25.40	28.58	33.34	25.40
350	14	355.60	3.96	4.78	6.35	7.92	9.52	*9.52	9.52	11.13	15.09	12.70	12.70	19.05	23.82	27.79	31.75	35.71	-
400	16	406.60	4.19	4.78	6.35	7.92	9.52	*9.52	9.52	12.70	16.64	12.70	12.70	21.44	26.19	30.96	36.52	40.49	-
450	18	457.20	4.19	4.78	6.35	7.92	11.13	*9.52	9.52	14.27	19.05	12.70	12.70	23.82	29.36	34.92	39.69	45.24	-
500	20	508.00	4.78	5.54	6.35	9.52	12.70	*9.52	9.52	15.09	20.62	12.70	12.70	26.19	32.54	38.10	44.45	50.01	-
550	22	559.00	4.78	5.54	6.35	9.52	12.70	*9.52	9.52	-	22.22	12.70	12.70	28.60	34.92	41.28	47.62	53.98	-
600	24	609.60	5.54	6.35	6.35	9.52	14.27	*9.52	9.52	17.48	24.61	12.70	12.70	30.96	38.89	46.02	52.30	59.54	-
650	26	660.40	-	+7.92	7.92	12.70	-	*9.52	9.52	-	-	12.70	12.70	-	-	-	-	-	-
700	28	711.20	-	+7.92	7.92	12.70	15.88	*9.52	9.52	-	-	12.70	12.70	-	-	-	-	-	-
750	30	762.00	6.35	+7.92	7.92	12.70	15.88	*9.52	9.52	-	-	12.70	12.70	-	-	-	-	-	-
800	32	812.00	-	+7.92	7.92	12.70	15.88	*9.52	9.52	17.48	-	12.70	12.70	-	-	-	-	-	-
850	34	863.6	-	+7.92	7.92	12.70	15.88	*9.52	9.52	17.48	-	12.70	12.70	-	-	-	-	-	-
900	36	914.40	-	+7.92	7.92	12.70	15.88	*9.52	9.52	19.05	-	12.70	12.70	-	-	-	-	-	-
950	38	965.20	-	+7.92	-	-	-	*9.52	9.52	-	-	12.70	12.70	-	-	-	-	-	-
1000	40	1016.00	-	+7.92	-	-	-	*9.52	9.52	-	-	12.70	12.70	-	-	-	-	-	-

◎ 对焊管件形位公差表 ASME/ANSI B16.9/B16.28
ASME/ANSI B16.9/B16.28 Table of Form and Position Tolerance of Butt-Welded Pipe Fittings

所有管配件					90°和45°弯头及三通、中心至端部尺寸 A、B、C、M	异径管和接管 总长 F,H	管盖 总长 E	180°弯头		
公称管规格 NPS	ND	坡口处 外径①② D	坡口处 外径①③ ④	壁厚③ t				中心至中心，尺寸 O	背部至端面尺寸	端部不重合度 U
1/2-1½	15-65	+1.6-0.8	±0.8	不小于公称壁厚的87.5%	2	2	2	6	6	1
3-3½	80-90	+1.6	±1.6		2	2	2	6	6	1
4	100	+1.6	±1.6		2	2	2	6	6	1
5-8	125-200	+2.4、-1.6	±1.6		2	2	2	6	6	1
10-18	250-450	+4.0、-3.2	±3.2		2	2	2	10	6	2
20-24	500-600	+6.4、-4.8	±4.8		2	2	2	10	6	2
26-30	650-750	+6.4、-4.8	±4.8		3	5	5	---	---	---
37-48	800-1200	+6.4、-4.8	±4.8		5	5	5	---	---	---

公称管规格 NPS	ND	搭接接管端部				公称管规格 NPS	ND	180°弯头	
		搭接边 外径 G	搭接边 倒角半径 R	筒部外径	搭接边 厚度			背部至端面尺寸	端部不重合度 U
1/2-1½	15-65	+0,-1	+0,-1	极限尺寸 见表 10	+1.6,-0	1/2-4	15-100	1	2
3-3½	80-90	+0,-1	+0,-1		+1.6,-0	5-8	125-200	2	4
4	100	+0,-1	+0,-1		+1.6,-0	10-12	250-300	2	5
5-8	125-200	+0,-1	+0,-2		+1.6,-0	14-16	350-400	3	6
10-18	250-450	+0,-2	+0,-2		+3.2,-0	18-24	450-600	4	10
20-24	500-600	+0,-2	+0,-2		+3.2,-0	26-30	650-750	5	10
26-30	650-750	---	---		---	32-42	800-1050	5	13
37-48	800-1200	---	---		---	44-48	1100-1200	5	19

注：a 参见表 2 简图 b 所有尺寸为 mm c 除注明外，公差可为正偏差负偏差。
① 圆度为下偏差和负偏差绝对值之和。
② 当需要直径壁厚以满足 2.2 条件的设计要求时，在成型管配件的颈部，该项公差可超过表列值。
③ 端部内径和公称壁厚由采购员指定。
④ 除非采购方另有要求，这些公差适用于公称内径外径减两倍公称壁厚的场合。



管件管壁厚分级表

Pipe Fittings & Pipe Wall Thickness Classification Table

◎ 管件管壁厚分级表

Pipe Fittings & Pip Wall Thickness Classifisation Table

公称尺寸 DN	DPS	管外径	公称壁厚																
			Sch5s	Sch10s	Sch10	Sch20	Sch30	Sch40s	STD	Sch40	Sch60	Sch80s	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
6	1/8	10.3	-	1.24	1.73	2.41	-	-	-	1.73	1.73	-	2.41	2.41	-	-	-	-	-
8	1/4	13.7	-	1.65	2.24	3.02	-	-	-	2.24	2.24	-	3.02	3.02	-	-	-	-	-
10	3/8	17.1	-	1.65	3.21	3.20	-	-	-	2.31	2.31	-	3.20	3.02	-	-	-	-	-
15	1/2	21.3	1.65	2.11	2.77	3.73	-	-	-	2.77	2.77	-	3.73	3.73	-	-	-	4.78	7.47
20	3/4	26.7	1.65	2.11	2.87	3.91	-	-	-	2.87	2.87	-	3.91	3.91	-	-	-	5.56	7.82
25	1	33.4	1.65	2.77	3.38	4.55	-	-	-	3.38	3.38	-	4.55	4.55	-	-	-	6.35	9.09
32	1 1/2	42.2	1.65	2.77	3.56	4.85	-	-	-	3.56	3.56	-	4.85	4.85	-	-	-	6.35	9.70
40	1	48.3	1.65	2.77	3.68	5.08	-	-	-	3.68	3.68	-	5.08	5.08	-	-	-	7.14	10.15
50	2	60.3	1.65	2.77	3.91	5.54	-	-	-	3.91	3.91	-	5.54	5.54	-	-	-	8.47	11.07
65	2 1/2	73.0	2.11	3.05	5.16	7.01	-	-	-	5.16	5.16	-	7.01	7.01	-	-	-	9.53	14.02
80	3	88.9	2.11	3.05	5.49	7.62	-	-	-	5.49	5.49	-	7.62	7.62	-	-	-	11.13	15.24
90	3 1/2	101.6	2.11	3.05	5.74	8.08	-	-	-	5.74	5.74	-	8.08	8.08	-	-	-	-	-
100	4	114.3	2.11	3.05	6.02	8.56	-	-	-	6.02	6.02	-	8.56	8.56	-	11.13	-	13.49	17.12
125	5	141.3	2.77	3.40	6.56	9.53	-	-	-	6.55	6.56	-	9.53	9.53	-	12.70	-	15.88	19.05
150	6	168.3	2.77	3.40	7.11	10.97	-	-	-	7.11	7.11	-	10.97	10.97	-	14.27	-	18.26	21.95
200	8	219.1	2.77	3.76	8.18	12.70	-	6.35	7.04	8.18	8.18	10.31	12.70	12.70	15.09	18.26	20.62	23.01	22.23
250	10	273.0	3.40	4.19	9.27	12.70	-	6.35	7.80	9.27	9.27	12.7	12.70	15.09	18.26	21.44	25.40	28.58	25.40
300	12	323.8	3.96	*4.57	*9.53	12.70	-	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	4.19	*4.78	-	-	6.35	7.92	11.13	9.53	14.27	19.05	12.70	23.83	29.36	34.92	39.76	45.24	-
500	20	508	4.78	*5.54	-	-	6.35	9.53	12.70	9.53	15.09	20.26	12.70	26.19	32.54	38.10	44.45	50.01	-
550	22	559	4.78	*5.54	-	-	6.35	9.53	12.70	*9.25	-	22.23	12.70	28.50	34.93	41.28	47.63	53.98	-
600	24	610	5.54	6.35	-	-	6.35	9.53	14.27	9.53	17.48	24.61	12.70	30.9	38.89	46.02	52.37	59.54	-
650	26	660	-	-	-	-	7.92	12.70	-	9.53	-	-	12.70	-	-	-	-	-	-
700	28	711	-	-	-	-	7.92	12.70	15.88	9.53	-	-	12.70	-	-	-	-	-	-
750	30	762	6.35	7.92	-	-	7.92	12.70	15.88	9.53	-	-	12.70	-	-	-	-	-	-
800	32	813	-	-	-	-	7.92	12.70	15.88	9.53	17.48	-	12.70	-	-	-	-	-	-

注：1：Sch数字后带“S”者为ASME B36.19MS标准中规定的数据，不带“S”者为ASME B36.10标准中规定的数据。

2：带“*”号的壁厚数据，在ASME B36.19M标准中注明与ASME B36.10M不同。

3：“STD”为标准管壁厚系列代号，“XS”为加强管壁厚系列代号，“XXS”为特加强壁厚系列代号。

常用材料的化学成分和力学性能

Chemical ingredients and mechanical performance of common materials

国别 Countries	标准号 Standard	类别 Category	材料牌号 Material	化学成分(%) Chemical Composition										力学性能 Mechanical Properties			
				C	Si	Mn	P≤	S≤	Ni	Cr	Mo	V	其它 Others	σ _b (Mpa) ≥	σ _s (Mpa) ≥	α _k (%) ≥	
中国 China	GB8163	钢管	20	0.17-0.24	0.17-0.37	0.35-0.65	0.035	0.035	≤0.25	≤0.25	-	-	-	Cu≤0.25	390-530	245	20
	GB6479	钢管	16Mn	0.12-0.20	0.20-0.06	1.20-1.60	0.040	0.035	-	-	-	-	-	Cu≤0.25	490-670	320	21
	GB6479	钢管	12CrMo	0.08-0.15	0.17-0.37	0.40-0.70	0.035	0.035	≤0.030	0.40-0.70	0.40-0.55	-	-	Cu≤0.25	410-560	205	21
	GB6479	钢管	15CrMo	0.12-0.18	0.17-0.37	0.40-0.70	0.035	0.035	≤0.030	0.80-1.10	0.40-0.55	-	-	Cu≤0.25	440-640	235	21
	GB5310	钢管	12Cr1MoV	0.08-0.15	0.17-0.37	0.40-0.70	0.035	0.035	-	0.90-1.20	0.25-0.35	0.15-0.30	-	Cu≤0.25	471-638	255	21
	GB2270	钢管	1Cr18Ni9Ti	≤0.12	≤1.00	≤2.00	0.035	0.030	800-1100	17.00-19.00	-	-	-	Ti5C%-0.02-0.08	≥540	-	40
	GB2270	钢管	00Cr18Ni10Ti	≤0.08	≤1.00	≤2.00	0.035	0.030	11.00-14.00	16.00-19.00	1.80-2.50	-	-	Ti5C%-0.70	≥510	-	42
	GB2270	钢管	00Cr17Ni14Mo2	≤0.030	≤1.00	≤2.00	0.035	0.030	900-1300	18.00-20.00	-	-	-	-	≥481	-	40
	GB2270	钢管	00Cr17Ni14Mo2	≤0.030	≤1.00	≤2.00	0.035	0.030	1200-1500	16.00-18.00	2.00-3.00	-	-	-	375-460	235	26
	GB3274	钢板	Q235A	0.14-0.22	≤0.30	0.30-0.65	0.045	0.050	-	-	-	-	-	-	510-655	345	21
美国 U.S.A	GB6654	钢板	16MnR	≤0.20	0.20-0.60	1.20-1.60	0.035	0.035	-	-	-	-	-	-	≥415	240	22
	ASTMA106	钢管	WPS	≤0.30	≥0.10	≤2.00	0.035	0.030	-	-	-	-	-	-	≥515	205	35
	ASTMA312	钢管	TP304	≤0.08	≤0.75	≤2.00	0.040	0.030	800-1100	18.0-200	-	-	-	-	≥485	170	35
	ASTMA312	钢管	TP304L	≤0.035	≤0.75	≤2.00	0.040	0.030	800-1300	18.0-200	-	-	-	-	≥485	205	35
	ASTMA312	钢管	TP316	≤0.08	≤0.75	≤2.00	0.040	0.030	100-140	16.0-180	2.00-3.00	-	-	-	≥520	170	35
	ASTMA312	钢管	TP316L	≤0.035	≤0.75	≤2.00	0.040	0.030	100-150	16.0-180	2.00-3.00	-	-	-	≥481	170	35
日本 Japan	JISG3459	钢管	TP321	≤0.08	≤0.75	≤2.00	0.040	0.030	900-1300	17.0-200	-	-	-	Ti5C%-0.70	≥481	170	35
	JISG3459	钢管	SUS304	≤0.08	≤1.00	≤2.00	0.040	0.030	800-1100	18.00-2000	-	-	-	-	≥520	206	35
	JISG3459	钢管	SUS304L	≤0.030	≤1.00	≤2.00	0.040	0.030	900-1300	18.00-2000	-	-	-	-	≥481	177	35
	JISG3459	钢管	SUS316	≤0.08	≤1.00	≤2.00	0.040	0.030	1000-1400	16.00-1800	2.00-3.00	-	-	-	≥520	206	35
	JISG3459	钢管	SUS316L	≤0.030	≤1.00	≤2.00	0.040	0.030	1200-1600	16.00-1800	2.00-3.00	-	-	-	≥481	177	35
	JISG3459	钢管	SUS321	≤0.08	≤1.00	≤2.00	0.040	0.030	900-1300	17.00-1900	-	-	-	Ti5C%-0.70	≥520	206	35

注：1：在化学成分中，标准规定含量的材料使用用途不同其化学成分含量变化，其含量变化在允许范围内增加，使用时请参照相应标准。

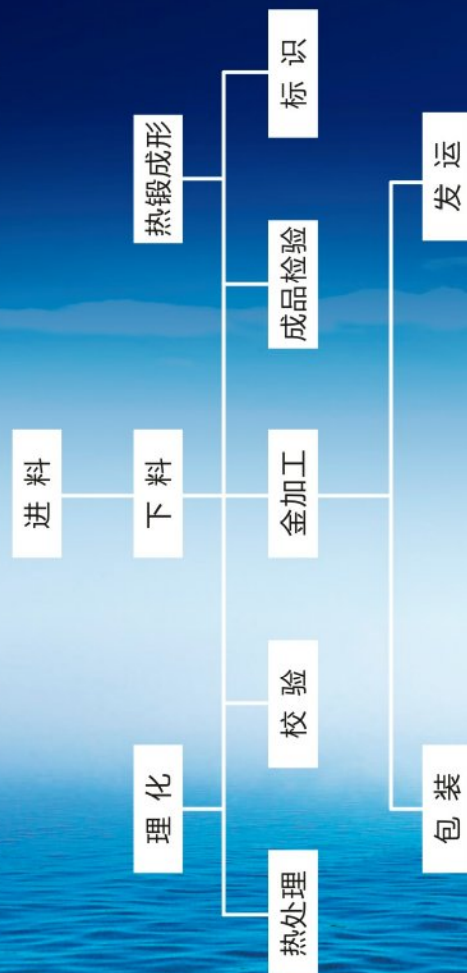
2：在力学性能中，对部分牌号的材料表中列出的力学性能是一个代表值，其他牌号的力学性能可能会有所变化，使用时请参照相应标准。

Note: 1: For chemical ingredients, to some part numbers, as specified in standards, carbon content or manganese content are allowed to increase within a certain range according to various purposes and content variation of other elements, so please refer to corresponding standards during utilization.

2: Mechanical performance, to some part numbers, the elongation percentage specified in material table is representative value.

The real value varies according to sample pattern and thickness of pipes, so please refer to corresponding standards during utilization.

法兰工艺流程及质量控制图



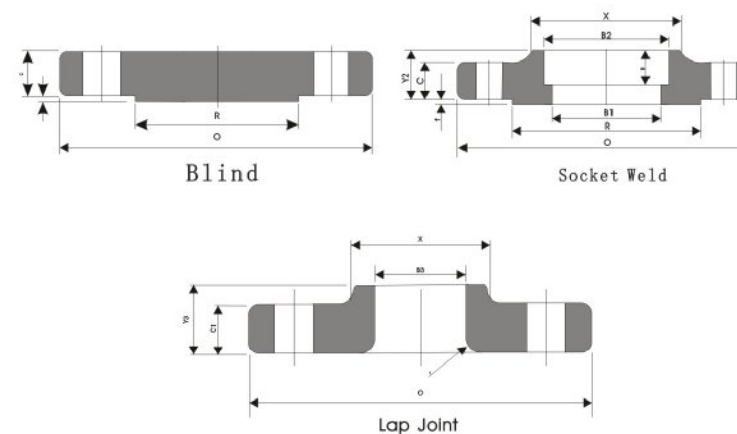
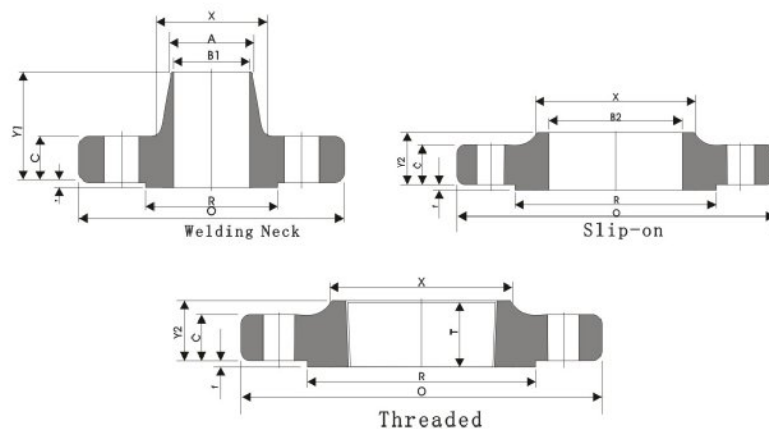
品牌 ○

用品质铸就品牌

专业设计、开发制造各式管件，秉承多年研发管件的特殊性能及化学成份的经验与理论，已使杰德公司成为管件行业的典范。本公司深厚的背景，将为您提供优质的不锈钢管件。

Professional design, development and manufacturing all kinds of pipe fittings, uphold the years of research and development of special properties and chemical composition of the experience and theory, has made Jade adult company fittings industry model. The company's big background, will provide you with quality of stainless steel pipe fittings.





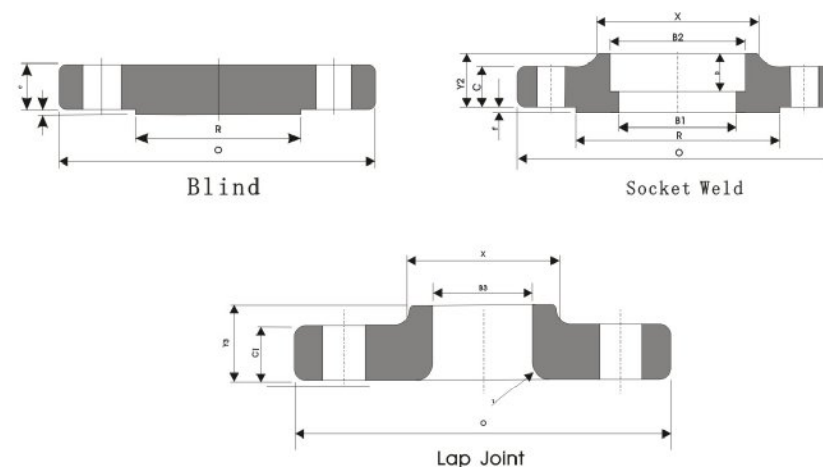
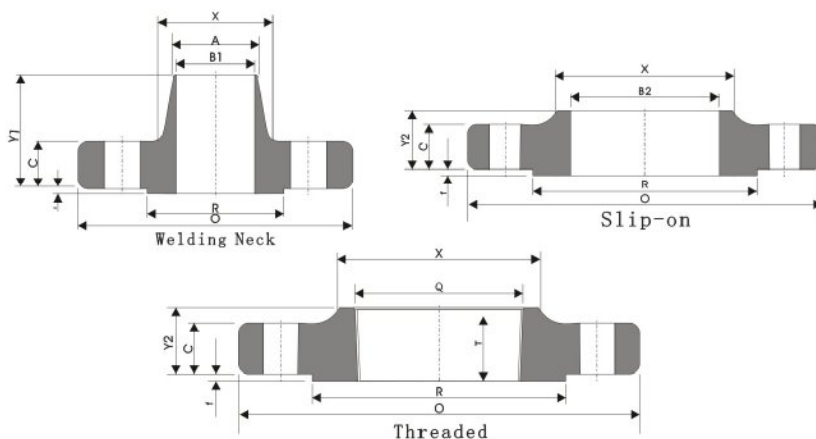
ASME B16.5 CLASS 150 PIPE FLANGES

Dimensions in mm

Nominal Pipe Size	Outside Diameter	Thickness	Thickness of Lap Joint	Raised Face Diameter	Corner Radius of Bore of Lap Joint	Bore			Length thru hub			Thread Length Threaded Flange (Min)	Depth of Socket	Diameter Hub at Bevel
						Welding Neck Socket Welding	Slip-On Socket Welding	Lap Joint	Welding Neck Socket Welding	Slip-On Threaded Socket Welding	Lap Joint			
	O	C	R	F	B1	B2	B3	Q	Y1	Y2	Y3	T	D	A
1/2	90	9.6	11.2	34.9	3.0	15.8	22.2	22.9	46.0	14.0	16.0	16.0	10.0	21.3
3/4	100	11.2	12.7	42.9	3.0	20.9	27.7	28.2	51.0	14.0	16.0	16.0	11.0	26.7
1	110	12.7	14.3	50.8	3.0	26.6	34.5	34.9	54.0	16.0	17.0	17.0	13.0	33.4
1 1/4	115	14.3	15.9	63.5	5.0	35.1	43.2	43.7	56.0	19.0	21.0	21.0	14.0	42.2
1 1/2	125	15.9	17.5	73.0	6.0	40.9	49.5	50.0	60.0	21.0	22.0	22.0	16.0	48.3
2	150	17.5	19.1	92.1	8.0	52.5	61.9	62.5	62.0	24.0	25.0	25.0	17.0	60.3
2 1/2	180	20.7	22.3	104.8	8.0	62.7	74.6	75.4	68.0	27.0	29.0	29.0	19.0	73.0
3	190	22.3	23.9	127.0	10.0	77.9	90.7	91.4	68.0	29.0	30.0	30.0	21.0	88.9
3 1/2	215	22.3	23.9	139.7	10.0	90.1	103.4	104.1	70.0	30.0	32.0	32.0	22.4	101.6
4	230	22.3	23.9	157.2	11.0	102.3	116.1	116.8	75.0	32.0	33.0	33.0	24.0	114.3
5	255	22.3	23.9	185.7	11.0	128.2	143.8	144.4	87.0	35.0	36.0	36.0	24.0	141.3
6	280	23.9	25.4	215.9	13.0	154.1	170.7	171.4	87.0	38.0	40.0	40.0	27.0	168.3
8	345	27.0	28.6	269.9	13.0	202.7	221.5	222.2	100.0	43.0	44.0	44.0	32.0	219.1
10	405	28.6	30.2	323.8	13.0	254.6	276.2	277.4	100.0	48.0	49.0	49.0	33.0	273.0
12	485	30.2	31.8	381.0	13.0	304.8	327.0	328.2	113.0	54.0	56.0	56.0	40.0	323.8
14	535	33.4	35.0	412.8	13.0		359.2	360.2	125.0	56.0	57.0	57.0	41.4	355.6
16	595	35.0	36.6	469.9	13.0		410.5	411.2	125.0	62.0	64.0	64.0	44.5	406.4
18	635	38.1	39.7	533.4	13.0		461.8	462.3	138.0	67.0	68.0	68.0	49.0	457.0
20	700	41.3	42.9	584.2	13.0		513.1	514.4	143.0	71.0	73.0	73.0	54.0	508.0
24	815	46.1	47.7	692.2	13.0		616.0	616.0	151.0	81.0	83.0	83.0	60.5	610.0

Dimensions in mm

Hub Diameter	Drilling			Approximate Weight										Nominal Pipe Size
	Bolt Circle Diameter Holes	Diameter of Bolt Holes	Number of Bolt	Welding Neck		Slip On Threaded		Lap Joint		Blind		Socket Welding		
				Kg	lb	Kg	lb	Kg	lb	Kg	lb	Kg	lb	
X														
30	60.3	15.9	4	0.51	1.10	0.47	1.00	0.51	1.00	0.47	1.00	0.47	1.00	1/2
38	69.9	15.9	4	0.73	1.60	0.58	1.30	0.64	1.40	0.63	1.40	0.59	1.30	3/4
49	79.4	15.9	4	1.07	2.40	0.86	1.90	0.93	1.80	0.94	2.10	0.87	1.90	1
59	88.9	15.9	4	1.40	3.10	1.08	2.40	1.16	2.00	1.23	2.70	1.11	2.40	1 1/4
65	98.4	15.9	4	1.81	4.00	1.41	3.10	1.51	3.30	1.62	3.60	1.45	3.20	1 1/2
78	120.7	19.1	4	2.59	5.70	2.26	5.00	2.38	5.20	2.64	5.80	2.33	5.00	2
90	139.7	19.1	4	4.28	9.40	3.43	7.60	3.60	7.90	4.06	9.00	3.55	7.80	2 1/2
108	152.4	19.1	4	5.18	11.40	3.87	8.50	4.04	8.90	4.90	10.80	4.02	8.90	3
122	177.8	19.1	8	5.45	12.00	4.99	11.00	4.99	11.00	5.90	13.00	4.99	11.00	3 1/2
135	190.5	19.1	8	7.32	16.10	5.75	12.70	5.96	13.00	7.41	16.30	5.99	13.20	4
164	215.9	22.2	8	8.91	19.60	6.22	13.70	6.44	14.00	8.76	19.30	6.68	14.70	5
192	241.3	22.2	8	11.26	24.80	7.38	16.30	7.59	16.70	11.31	24.90	7.99	17.60	6
246	298.5	22.2	8	17.68	39.00	12.36	27.30	12.66	27.90	19.92	43.90	13.29	29.30	8
305	362.0	25.4	12	24.79	54.70	17.10	37.70	16.78	37.00	29.39	64.80	19.50	43.00	10
365	431.8	25.4	12	38.98	85.70	27.68	61.00	28.30	36.40	43.70	96.30	29.03	64.00	12
400	476.3	28.6	12	51.71	114.00	35.20	77.60	41.50	91.50	59.42	130.00	38.56	85.00	14
457	539.8	28.6	16	64.41	142.00	42.18	93.00	52.98	116.80	77.11	170.00	44.49	98.00	16
505	577.9	31.8	16	74.84	165.00	49.71	109.60	59.00	130.00	94.80	209.00	54.43	120.00	18
559	635.0	31.8	20	89.36	197.00	65.50	140.00	72.12	159.00	123.38	272.00	70.31	155.00	20
663	749.3	34.9	20	119.66	263.80	90.50	199.50	99.02	218.30	199.24	415.00	95.25	210.00	24



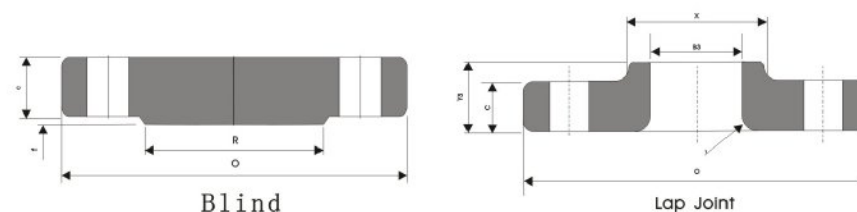
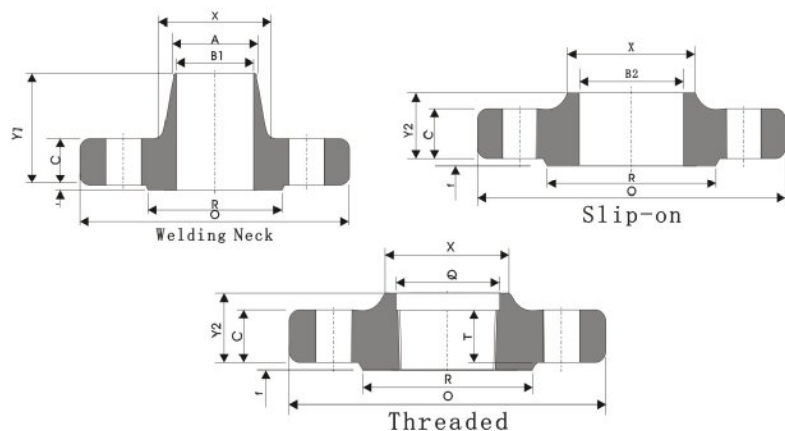
ASME B16.5 CLASS 300 PIPE FLANGES

Dimensions in mm

Nominal Pipe Size	Outside Diameter	Thickness	Thickness of Lap Joint	Raised Face Diameter	Corner Radius of Bore of Lap Joint	Bore			Diameter Counter Bore Threaded	Length thru hub			Thread Length Threaded Flange (Min)	Depth of Socket	Diameter Hub at Bevel
						Welding Neck Socket Welding	Slip-On Socket Welding	Lap Joint		Welding Neck	Slip-On Threaded Socket Welding	Lap Joint			
	Q	C	C1	R	r	B1	B2	B3	Q	Y1	Y2	Y3	T	D	A
1/2	95.0	12.7	14.3	34.9	3.0	15.8	22.2	22.9	23.6	51.0	21.0	22.0	16	10.0	21.3
3/4	115.0	14.3	15.7	42.9	3.0	20.9	27.7	28.2	29.0	56.0	24.0	25.0	16	11.0	26.7
1	125.0	15.9	17.5	50.8	3.0	26.6	34.5	34.9	35.8	60.0	25.0	27.0	18	13.0	33.4
1 1/4	135.0	17.5	19.1	63.5	5.0	35.1	43.2	43.7	44.4	64.0	25.0	27.0	21	14.0	42.2
1 1/2	155.0	19.1	20.7	73.0	6.0	40.9	49.5	50.0	50.3	67.0	29.0	30.0	23	16.0	48.3
2	165.0	20.7	22.3	92.1	8.0	52.5	61.9	62.5	63.5	68.0	32.0	33.0	29	17.0	60.3
2 1/2	190.0	23.9	25.4	104.8	8.0	62.7	74.6	75.4	76.2	75.0	37.0	38.0	32	19.0	73.0
3	210.0	27.0	28.6	127.0	10.0	77.9	90.7	91.4	92.2	78.0	41.0	43.0	32	21.0	88.9
3 1/2	230.0	28.6	30.2	139.7	10.0	90.1	103.4	104.1	104.9	79.0	43.0	44.0	37	—	101.6
4	255.0	30.2	31.8	157.2	11.0	102.3	116.1	116.8	117.6	84.0	46.0	48.0	37	—	114.3
5	280.0	33.4	35.0	185.7	11.0	128.2	143.8	144.4	144.4	97.0	49.0	51.0	43	—	141.3
6	320.0	35.0	36.6	215.9	13.0	154.1	170.7	171.4	171.4	97.0	51.0	52.0	47	—	168.3
8	380.0	39.7	41.3	269.9	13.0	202.7	221.5	222.2	222.2	110.0	60.0	62.0	51	—	219.1
10	445.0	46.1	47.7	323.8	13.0	254.6	276.2	277.4	276.2	116.0	65.0	95.0	56	—	273.0
12	520.0	49.3	50.8	381.0	13.0	304.8	327.0	328.2	328.6	129.0	71.0	102.0	61	—	323.8
14	585.0	52.4	54.0	412.8	13.0		359.2	360.2	360.4	141.0	75.0	111.0	64	—	355.6
16	650.0	55.6	57.2	469.9	13.0		410.5	411.2	411.2	144.0	81.0	121.0	69	—	406.4
18	710.0	58.8	60.4	533.4	13.0		461.8	462.3	462.0	157.0	87.0	130.0	70	—	457.0
20	775.0	62.0	63.5	584.2	13.0		513.1	514.4	512.8	160.0	94.0	140.0	74	—	508.0
24	915.0	68.3	63.9	692.2	13.0		616.0	616.0	614.4	167.0	105.0	152.0	83	—	610.0

Dimensions in mm

Hub Diameter	Drilling			Approximate Weight										Nominal Pipe Size
	Bolt Circle Diameter Holes	Diameter of Bolt Holes	Number of Bolt	Welding Neck		Slip On Threaded		Lap Joint		Blind		Socket Welding		
				Kg	lb	Kg	lb	Kg	lb	Kg	lb	Kg	lb	
X														
38.0	66.7	15.9	4	0.78	1.70	0.62	1.40	0.61	1.30	0.62	1.40	0.62	1.40	1/2
48.0	82.6	19.1	4	1.34	3.00	1.15	2.50	1.15	2.50	1.16	2.50	1.19	2.60	3/4
54.0	88.9	19.1	4	1.64	3.60	1.39	3.10	1.38	3.00	1.42	3.00	1.44	3.20	1
64.0	98.4	19.1	4	2.06	4.50	1.67	3.70	1.66	3.70	1.79	3.90	1.73	3.80	1 1/4
70.0	114.3	22.2	4	3.06	6.70	2.53	5.60	2.52	5.60	2.68	5.90	2.62	5.80	1 1/2
84.0	127.0	19.1	8	3.40	7.50	2.80	6.20	2.79	6.20	3.09	6.80	2.94	6.50	2
100.0	149.2	22.2	8	5.31	11.70	4.25	9.40	4.22	9.30	4.75	10.50	4.49	9.90	2 1/2
117.0	168.3	22.2	8	7.32	16.10	5.81	12.80	5.78	12.70	6.79	14.90	6.02	13.70	3
133.0	184.2	22.2	8	8.17	18.00	7.72	17.00	7.72	17.00	9.53	21.00			3 1/2
146.0	200.0	22.2	8	11.30	24.90	10.13	22.30	10.07	22.20	12.00	26.50			4
178.0	235.0	22.2	8	15.12	33.30	12.58	27.70	12.52	27.60	15.96	35.20			5
206.0	269.9	22.2	12	19.68	43.40	16.04	35.40	15.95	35.20	21.20	46.70			6
260.0	330.2	25.4	12	30.48	67.20	24.50	54.00	24.37	53.70	34.60	76.30			8
321.0	387.4	28.6	16	43.74	96.40	34.16	75.30	39.92	88.00	55.34	122.00			10
375.0	450.8	31.8	16	64.41	142.00	51.26	113.00	58.70	129.40	78.90	174.00			12
425.0	514.4	31.8	20	88.30	194.70	72.12	159.00	83.46	184.00	107.05	236.00			14
483.0	571.5	34.9	20	112.94	249.00	90.40	199.30	106.14	234.00	139.25	307.00			16
533.0	628.6	34.9	24	138.34	305.00	109.00	240.30	133.95	295.30	176.90	396.00			18
587.0	685.8	34.9	24	167.37	369.00	136.00	300.00	157.65	347.60	223.17	492.00			20
702.0	812.8	41.3	24	235.41	519.00	204.00	449.70	240.40	530.00	342.00	754.00			24



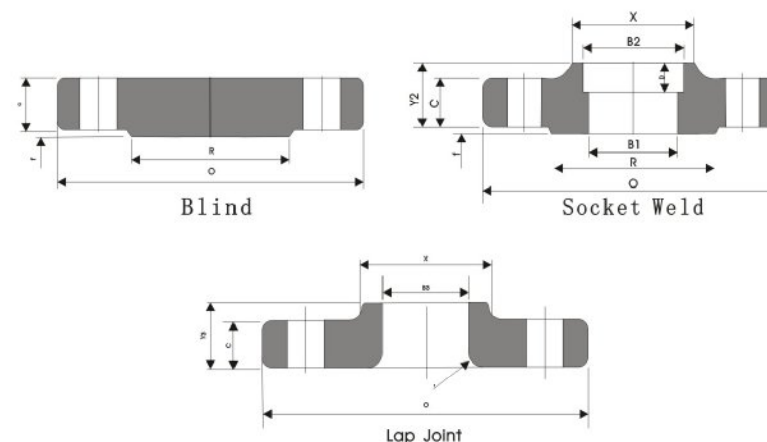
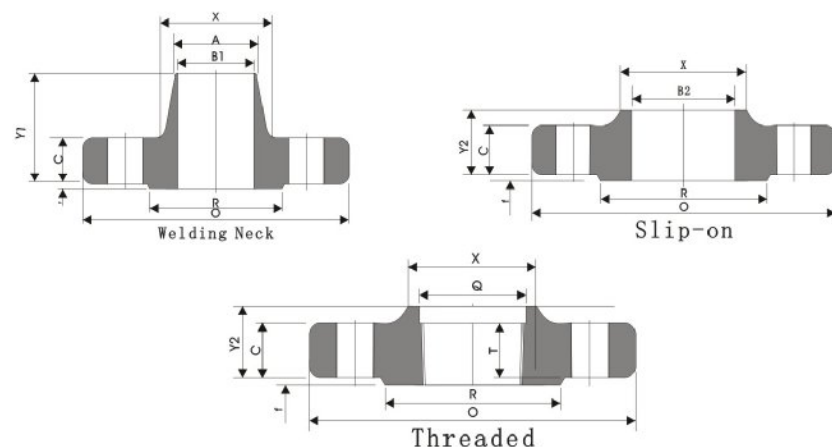
ASME B16.5 CLASS 400 PIPE FLANGES

Dimensions in mm

Nominal Pipe Size	Outside Diameter	Thickness	Raised Face Diameter	Corner Radius of Bore of Lap Joint	Bore				Length thru hub			Thread Length Threaded Flange (Min)	Diameter Hub at Bevel
					Welding Neck	Slip-On	Lap Joint	Diameter Counter Bore Threaded	Welding Neck	Slip-On Threaded	Lap Joint		
O	C	R	r	B1	B2	B3	Q	Y1	Y2	Y3	T	A	
1/2	95.0	14.3	34.9	3.0		22.2	22.9	23.6	52.0	22.0	22.0	16	21.3
3/4	115.0	15.9	42.9	3.0		27.7	28.2	29.0	57.0	25.0	25.0	16	26.7
1	125.0	17.5	50.8	3.0		34.5	34.9	35.8	62.0	27.0	27.0	18	33.4
1 1/4	135.0	20.7	63.5	5.0		43.2	43.7	44.4	67.0	29.0	29.0	21	42.2
1 1/2	155.0	22.3	73.0	6.0		49.5	50.0	50.3	70.0	32.0	32.0	23	48.3
2	165.0	25.4	92.1	8.0		61.9	62.5	63.5	73.0	37.0	37.0	29	60.3
2 1/2	190.0	28.6	104.8	8.0		74.6	75.4	76.2	79.0	41.0	41.0	32	73.0
3	210.0	31.8	127.0	10.0		90.7	91.4	92.2	83.0	46.0	46.0	35	88.9
3 1/2	230.0	35.0	139.7	10.0		103.4	104.1	104.9	86.0	49.0	49.0	40	101.6
4	255.0	35.0	157.2	11.0		116.1	116.8	117.6	89.0	51.0	51.0	37	114.3
5	280.0	38.1	185.7	11.0		143.8	144.4	144.4	102.0	54.0	54.0	43	141.3
6	320.0	41.3	215.9	13.0		170.7	171.4	171.4	103.0	57.0	57.0	46	168.3
8	380.0	47.7	269.9	13.0		221.5	222.2	222.2	117.0	68.0	68.0	51	219.1
10	445.0	57.0	323.8	13.0		276.2	277.4	276.2	124.0	73.0	102.0	56	273.0
12	520.0	57.2	381.0	13.0		327.0	328.2	328.6	137.0	79.0	108.0	61	323.8
14	585.0	60.4	412.8	13.0		359.2	360.2	360.4	149.0	84.0	117.0	64	355.6
16	650.0	63.5	469.9	13.0		410.5	411.2	411.2	152.0	94.0	127.0	69	406.4
18	710.0	66.7	533.4	13.0		461.8	462.3	462.0	165.0	98.0	137.0	70	457.0
20	775.0	69.9	584.2	13.0		513.1	514.4	512.8	168.0	102.0	146.0	74	508.0
24	915.0	76.2	692.2	13.0		616.0	616.0	614.4	175.0	114.0	159.0	83	610.0

Dimensions in mm

Hub Diameter	Drilling		Number of Bolt	Approximate Weight								Nominal Pipe Size
	Bolt Circle Diameter Holes	Diameter of Bolt Holes		Welding Neck		Slip On Threaded		Lap Joint		Blind		
				Kg	lb	Kg	lb	Kg	lb	Kg	lb	
X												
38.0	66.7	15.9	4	0.90	2.00	0.91	2.00	0.80	1.80	0.91	2.00	1/2
48.0	82.6	19.1	4	1.59	3.50	1.40	3.00	1.36	3.00	1.40	3.00	3/4
54.0	88.9	19.1	4	1.90	4.00	1.70	3.70	1.59	3.50	1.81	4.00	1
64.0	98.4	19.1	4	2.49	5.50	2.27	5.00	2.04	4.50	2.40	5.30	1 1/4
70.0	114.3	22.2	4	3.63	8.00	3.10	6.80	2.96	6.50	3.40	7.50	1 1/2
84.0	127.0	19.1	8	4.54	10.00	3.63	8.00	3.63	8.00	4.40	9.70	2
100.0	149.2	22.2	8	6.35	14.00	5.44	12.00	4.99	11.00	6.80	15.00	2 1/2
117.0	168.3	22.2	8	8.10	18.00	7.26	16.00	6.35	14.00	8.90	19.60	3
133.0	184.2	25.4	8	11.80	26.00	9.53	21.00	9.08	20.00	13.17	29.00	3 1/2
146.0	200.0	25.4	8	13.61	30.00	10.89	24.00	9.98	22.00	14.40	31.70	4
178.0	235.0	25.4	8	17.69	39.00	14.07	31.00	13.15	29.00	19.50	43.00	5
206.0	269.9	25.4	12	22.23	49.00	19.98	44.00	16.78	37.00	27.67	61.00	6
260.0	330.2	28.6	12	35.38	78.00	30.40	67.00	26.16	59.00	45.36	100.00	8
321.0	387.4	31.8	16	49.89	110.00	41.28	91.00	43.09	95.00	68.00	150.00	10
375.0	450.8	34.9	16	72.57	160.00	59.02	130.00	68.95	150.00	98.00	216.00	12
425.0	514.4	34.9	20	105.69	233.00	81.72	180.00	95.25	280.00	131.66	290.00	14
483.0	571.5	38.1	20	133.36	294.00	106.69	235.00	127.00	345.00	167.00	368.00	16
533.0	628.6	38.1	24	158.90	350.00	129.39	285.00	156.47	420.00	206.57	455.40	18
587.0	685.8	41.3	24	193.00	425.50	152.00	335.00	190.51	615.00	261.00	575.40	20
702.0	812.8	47.6	24	281.48	620.50	231.54	510.50	278.96	754.00	395.00	870.80	24



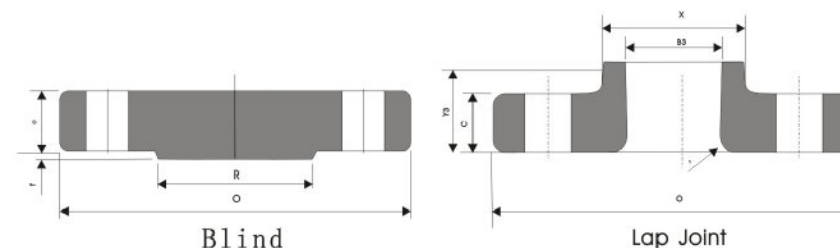
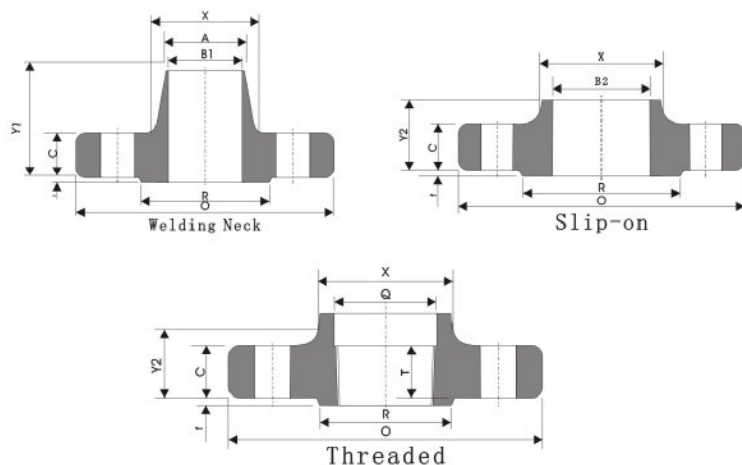
ASME B16.5 CLASS 600 PIPE FLANGES

Dimensions in mm

Nominal Pipe Size	Outside Diameter	Thickness	Raised Face Diameter	Corner Radius of Bore of Lap Joint	Bore				Length thru hub			Thread Length Threaded Flange (Min)	Depth of Socket	Diameter Hub at Bevel
					Welding Neck Socket Welding	Slip-On Socket Welding	Diameter Counter Bore Threaded	Lap Joint	Welding Neck	Slip-On Threaded Socket Welding	Lap Joint			
	O	C	R	r	B1	B2	B3	Q	Y1	Y2	Y3	T	D	A
1/2	95.0	14.3	34.9	3.0		22.2	22.9	23.6	52.0	22.0	22.0	16	10.0	21.3
3/4	115.0	15.9	42.9	3.0		27.7	28.2	29.0	57.0	25.0	25.0	16	11.0	26.7
1	125.0	17.5	50.8	3.0		34.5	34.9	35.8	62.0	27.0	27.0	18	13.0	33.4
1 1/4	135.0	20.7	63.5	5.0		43.2	43.7	44.4	67.0	29.0	29.0	21	14.0	42.2
1 1/2	155.0	22.3	73.0	5.0		49.5	50.0	50.6	70.0	32.0	32.0	23	16.0	48.3
2	165.0	25.4	92.1	8.0		61.9	62.5	63.5	73.0	37.0	37.0	29	17.0	60.3
2 1/2	190.0	28.6	104.8	8.0		74.6	75.4	76.2	79.0	41.0	41.0	32	19.0	73.0
3	210.0	31.8	127.0	10.0		90.7	91.4	92.2	83.0	46.0	46.0	35	21.0	88.9
3 1/2	230.0	35.0	139.7	10.0		103.4	104.1	104.9	86.0	49.0	49.0	40		101.6
4	275.0	38.1	157.2	11.0		116.1	116.8	117.6	102.0	54.0	54.0	42		114.3
5	330.0	44.5	185.7	11.0		143.8	144.4	144.4	114.0	60.0	60.0	48		141.3
6	355.0	47.7	215.9	13.0		170.7	171.4	171.4	117.0	67.0	67.0	51		168.3
8	420.0	55.6	269.9	13.0		221.5	222.2	222.2	133.0	76.0	76.0	58		219.1
10	510.0	63.5	323.8	13.0		276.2	277.4	276.2	152.0	86.0	110.0	66		273.0
12	560.0	66.7	381.0	13.0		327.0	328.2	328.6	156.0	92.0	117.0	70		323.8
14	605.0	69.9	412.8	13.0		359.2	360.2	360.4	165.0	94.0	127.0	74		355.6
16	685.0	76.2	469.9	13.0		410.5	411.2	411.2	178.0	106.0	140.0	78		406.4
18	745.0	82.6	533.4	13.0		461.8	462.3	462.0	184.0	117.0	152.0	80		457.0
20	815.0	88.9	584.2	13.0		513.1	514.4	512.8	190.0	127.0	165.0	83		508.0
24	940.0	101.6	692.2	13.0		616.0	616.0	614.4	203.0	140.0	184.0	93		610.0

Dimensions in mm

Hub Diameter	Drilling			Approximate Weight										Nominal Pipe Size
	Bolt Circle Diameter Holes	Diameter of Bolt Holes	Number of Bolt Holes	Welding Neck		Slip On Threaded		Lap Joint		Blind		Socket Welding		
				Kg	lb	Kg	lb	Kg	lb	Kg	lb	Kg	lb	
x														
38.0	66.7	15.9	4	0.90	2.00	0.91	2.00	0.80	1.80	0.91	2.00	0.91	2.00	1/2
48.0	82.6	19.1	4	1.59	3.50	1.40	3.00	1.36	3.00	1.40	3.50	1.36	3.00	3/4
54.0	88.9	19.1	4	1.90	4.00	1.70	3.70	1.59	3.50	1.81	4.00	1.81	4.00	1
64.0	98.4	19.1	4	2.49	5.50	2.27	5.00	2.04	4.50	2.40	5.30	2.60	5.70	1 1/4
70.0	114.3	22.2	4	3.63	8.00	3.10	6.80	2.96	6.50	3.40	7.50	3.18	7.00	1 1/2
84.0	127.0	19.1	8	4.54	10.00	3.63	8.00	3.63	8.00	4.40	9.70	3.90	8.60	2
100.0	149.2	22.2	8	6.35	14.00	5.44	12.00	4.99	11.00	6.80	15.00	5.90	13.30	2 1/2
117.0	168.3	22.2	8	8.10	18.00	7.26	16.00	6.32	14.00	8.90	19.60	7.40	16.30	3
133.0	184.2	25.4	8	11.80	26.00	9.53	21.00	9.08	20.00	13.17	29.00			3 1/2
152.0	215.9	25.4	8	16.78	37.00	14.97	33.00	14.06	31.00	18.60	41.00			4
189.0	266.7	28.6	8	30.87	68.00	28.50	62.80	27.50	60.60	30.84	68.00			5
222.0	292.1	28.6	12	36.77	80.00	36.32	80.00	35.38	78.00	38.00	83.80			6
273.0	349.2	31.8	12	50.80	112.00	44.00	97.00	50.80	112.00	62.20	137.00			8
343.0	431.8	34.9	16	86.26	190.00	76.20	168.00	74.00	163.00	102.00	224.00			10
400.0	489.0	34.9	20	102.51	226.00	97.52	215.00	108.56	240.00	132.00	291.00			12
432.0	527.0	38.1	20	121.56	268.00	102.00	224.00	111.00	244.70	158.00	348.30			14
495.0	603.2	41.3	20	177.06	390.00	149.82	330.20	165.71	365.30	224.73	495.40			16
546.0	654.0	44.5	20	215.65	475.40	180.10	412.30	294.00	427.00	285.00	628.30			18
610.0	723.9	44.5	24	267.86	590.50	231.54	510.50	258.78	570.50	365.00	804.70			20
718.0	838.2	50.8	24	372.00	820.00	330.00	725.50	362.00	798.00	533.45	1176.0			24



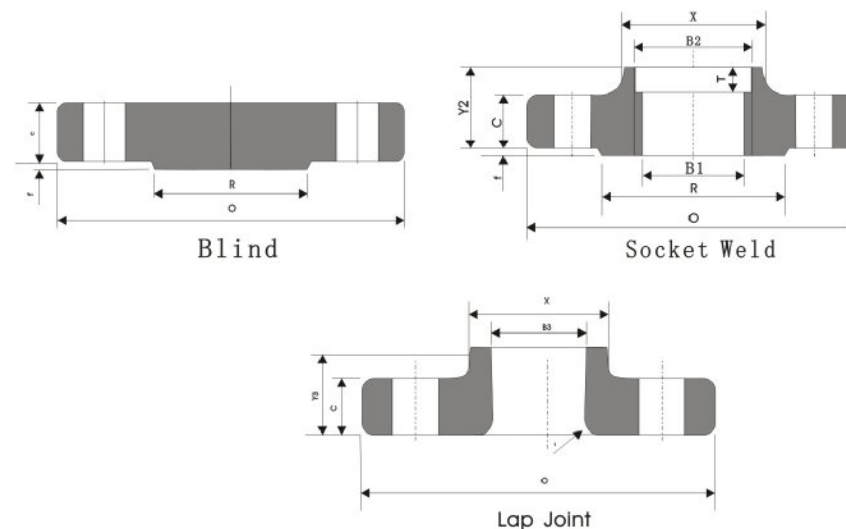
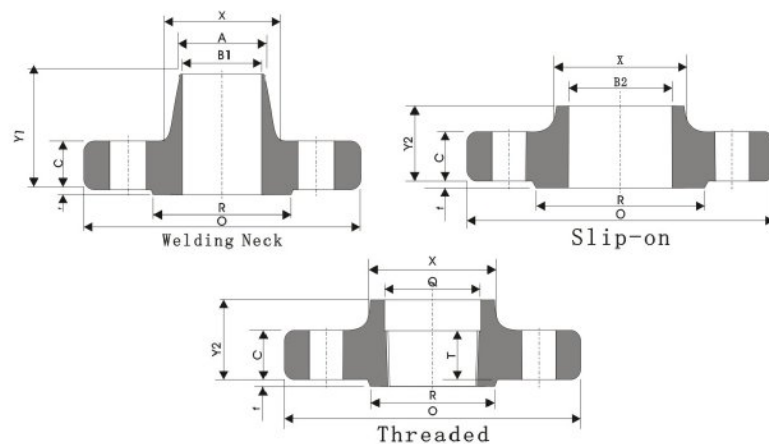
ASME B16.5 CLASS 900 PIPE FLANGES

Dimensions in mm

Nominal Pipe Size	Outside Diameter	Thickness	Raised Face Diameter	Corner Radius of Bore of Lap Joint	Bore				Length thru hub			Thread Length Threaded Flange (Min)	Diameter Hub at Bevel
					Welding Neck	Slip-On	Lap Joint	Diameter Counter Bore Threaded	Welding Neck	Slip-On Threaded	Lap Joint		
	O	C	R	r	B1	B2	B3	Q	Y1	Y2	Y3	T	A
1/2	120.0	22.3	34.9	3.0		22.2	22.9	23.6	60.0	32.0	32.0	23.0	21.3
3/4	130.0	25.4	42.9	3.0		27.7	28.2	29.0	70.0	35.0	35.0	26.0	26.7
1	150.0	28.6	50.8	3.0		34.5	34.9	35.8	73.0	41.0	41.0	29.0	33.4
1 1/4	160.0	28.6	63.5	5.0		43.2	43.7	44.4	73.0	41.0	41.0	31.0	42.2
1 1/2	180.0	31.8	73.0	6.0		49.5	50.0	50.6	83.0	44.0	44.0	32.0	48.3
2	215.0	38.1	92.1	8.0		61.9	62.5	63.5	102.0	57.0	57.0	39.0	60.3
2 1/2	245.0	41.3	104.8	8.0		74.6	75.4	76.2	105.0	64.0	64.0	48.0	73
3	240.0	38.1	127.0	10.0		90.7	91.4	92.2	102.0	54.0	54.0	42.0	88.9
4	290.0	44.5	157.2	11.0		116.1	116.8	117.6	114.0	70.0	70.0	48.0	114.3
5	350.0	50.8	185.7	11.0		143.8	144.4	144.4	127.0	79.0	79.0	54.0	141.3
6	380.0	55.6	215.9	13.0		170.7	171.4	171.4	140.0	86.0	86.0	58.0	168.3
8	470.0	63.5	269.9	13.0		221.5	222.2	222.2	162.0	102.0	114.0	64.0	219.1
10	545.0	69.9	323.8	13.0		276.2	277.4	276.2	184.0	108.0	127.0	72.0	273
12	610.0	79.4	381.0	13.0		327.0	328.2	328.6	200.0	117.0	143.0	77.0	323.8
14	640.0	85.8	412.8	13.0		359.2	360.2	360.4	213.0	130.0	156.0	83.0	355.6
16	705.0	88.9	469.9	13.0		410.5	411.2	411.2	216.0	133.0	165.0	86.0	406.4
18	785.0	101.6	533.4	13.0		461.8	462.3	462.0	229.0	152.0	190.0	89.0	457
20	855.0	108.0	584.2	13.0		513.1	514.4	512.8	248.0	159.0	210.0	93.0	508
24	1040.0	139.7	692.2	13.0		616.0	616.0	614.4	292.0	203.0	267.0	102.0	610

Dimensions in mm

Hub Diameter	Drilling		Number of Bolt Holes	Approximate Weight								Nominal Pipe Size
	Bolt Circle Diameter	Diameter of Bolt Holes		Welding Neck		Slip On Threaded		Lap Joint		Blind		
				Kg	lb	Kg	lb	Kg	lb	Kg	lb	
X												
38.0	82.6	22.2	4	2.10	4.60	1.80	4.00	1.80	4.00	1.90	4.00	1/2
44.0	88.9	22.2	4	2.72	6.00	2.27	5.00	2.27	5.00	2.72	6.00	3/4
52.0	101.6	25.4	4	3.86	8.50	3.40	7.50	3.40	7.50	4.08	9.00	1
64.0	111.1	25.4	4	4.54	10.00	4.10	9.00	4.09	10.80	4.30	9.50	1 1/4
70.0	123.8	28.6	4	5.90	13.00	5.45	12.00	5.40	11.90	5.90	13.00	1 1/2
105.0	165.1	25.4	8	10.89	24.00	10.50	23.00	9.53	21.00	11.30	25.00	2
124.0	190.5	28.6	8	16.34	36.00	15.80	34.80	13.15	29.00	16.00	35.30	2 1/2
127.0	190.5	25.4	8	15.00	33.00	11.80	26.00	11.34	25.00	13.17	29.00	3
159.0	235.0	31.8	8	23.13	51.00	23.20	51.00	22.60	48.50	24.50	54.00	4
190.0	279.4	34.9	8	38.50	84.90	37.65	83.00	36.74	81.00	39.46	87.00	5
235.0	317.5	31.8	12	49.89	110.00	48.30	106.50	47.50	104.70	51.50	113.50	6
298.0	393.7	38.1	12	79.45	175.00	75.00	166.30	86.00	189.60	59.00	106.20	8
368.0	469.9	38.1	16	118.04	260.00	111.13	245.00	125.64	277.00	131.54	290.00	10
419.0	533.4	38.1	20	157.00	349.00	146.00	321.80	167.00	368.00	187.00	290.00	12
451.0	558.8	41.3	20	181.60	400.40	172.36	380.00	180.07	397.00	224.07	412.30	14
508.0	616.0	44.5	20	224.73	495.50	192.95	425.40	211.11	465.40	272.40	494.00	16
565.0	685.8	50.8	20	308.72	680.60	272.40	600.50	295.10	650.60	385.90	600.50	18
622.0	749.3	54.0	20	376.82	830.70	331.42	730.60	367.74	810.70	488.00	1076.00	20
749.0	901.7	66.7	20	685.00	1510.00	632.00	1393.30	700.00	1543.00	905.00	1995.00	24



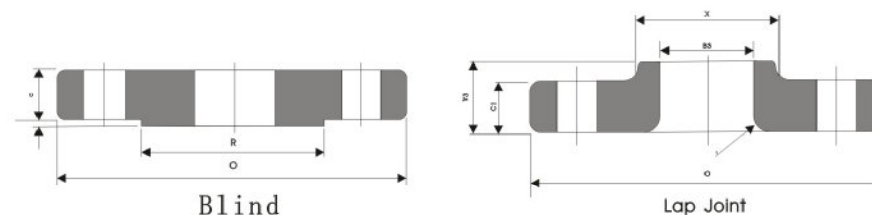
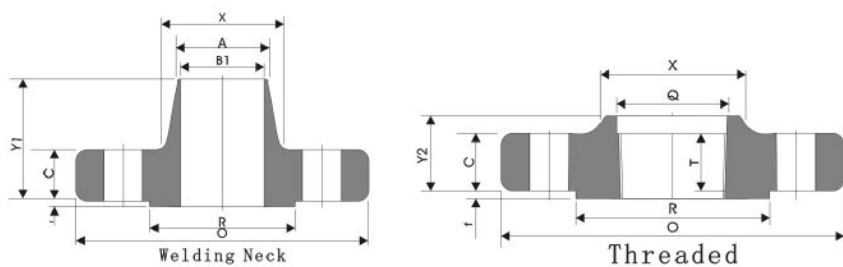
ASME B16.5 CLASS 1500 PIPE FLANGES

Dimensions in mm

Nominal Pipe Size	Outside Diameter	Thickness	Raised Face Diameter	Corner Radius of Bore of Lap Joint	Welding Neck	Bore			Length thru hub			Thread Length Threaded Flange (Min)	Depth of Socket	Diameter Hub at Bevel
						Slip-On	Lap Joint	Diameter Counter Bore Threaded	Welding Neck	Slip-On Threaded	Lap Joint			
	O	C	R	f	B1	B2	B3	Q	Y1	Y2	Y3	T	D	A
1/2	120.0	22.3	34.9	3.0		22.2	22.9	23.6	60.0	32.0	32.0	23.0	10.0	21.3
3/4	130.0	25.4	42.9	3.0		27.7	28.2	29.0	70.0	35.0	35.0	26.0	11.0	26.7
1	150.0	28.6	50.8	3.0		34.5	34.9	35.8	73.0	41.0	41.0	29.0	13.0	33.4
1 1/4	160.0	28.6	63.5	5.0		43.2	43.7	44.4	73.0	41.0	41.0	31.0	14.0	42.2
1 1/2	180.0	31.8	73.0	6.0		49.5	50.0	50.6	83.0	44.0	44.0	32.0	16.0	48.3
2	215.0	38.1	92.1	8.0		61.9	62.5	63.5	102.0	57.0	57.0	39.0	17.0	60.3
2 1/2	245.0	41.3	104.8	8.0		74.6	75.4	76.2	105.0	64.0	64.0	48.0	19.0	73.0
3	265.0	47.7	127.0	10.0			91.4		117.0		73.0			88.9
4	310.0	54.0	157.2	11.0			116.8		124.0		90.0			114.3
5	375.0	73.1	185.7	11.0			144.4		156.0		105.0			141.3
6	395.0	82.6	215.9	13.0			171.4		171.0		119.0			168.3
8	485.0	92.6	269.9	13.0			222.2		213.0		143.0			219.1
10	585.0	108.0	323.8	13.0			277.4		254.0		178.0			273.0
12	675.0	123.9	381.0	13.0			328.2		283.0		219.0			323.8
14	750.0	133.4	412.8	13.0			360.2		298.0		241.0			355.6
16	825.0	146.1	469.9	13.0			411.2		311.0		260.0			406.4
18	915.0	162.0	533.4	13.0			462.3		327.0		276.0			457.0
20	985.0	177.8	584.2	13.0			514.4		356.0		292.0			508.0
24	1170.0	203.2	692.2	13.0			616.0		406.0		330.0			610.0

Dimensions in mm

Hub Diameter	Drilling			Approximate Weight										Nominal Pipe Size
	Bolt Circle Diameter	Diameter of Bolt Holes	Number of Bolt Holes	Welding Neck		Slip On Threaded		Lap Joint		Blind		Socket Welding		
				Kg	lb	Kg	lb	Kg	lb	Kg	lb	Kg	lb	
38.0	82.6	22.2	4	2.10	4.60	1.80	4.00	1.80	4.00	1.90	4.00	1.81	4.00	1/2
44.0	88.9	22.2	4	2.72	6.00	2.27	5.00	2.27	5.00	2.72	6.00	2.81	6.20	3/4
52.0	101.6	25.4	4	3.86	8.50	3.40	7.50	3.40	7.50	4.08	9.00	3.61	8.00	1
64.0	111.1	25.4	4	4.54	10.00	4.10	9.00	4.09	10.80	4.30	9.50	4.99	11.00	1 1/4
70.0	123.8	28.6	4	5.90	13.00	5.45	12.00	5.40	11.90	5.90	13.00	6.76	14.90	1 1/2
105.0	165.1	25.4	8	10.89	24.00	10.50	23.00	9.53	21.00	11.30	25.00	10.89	24.00	2
124.0	190.5	28.6	8	16.34	36.00	15.80	34.80	13.15	29.00	16.00	35.30	16.34	36.00	2 1/2
133.0	203.2	31.8	8	21.79	48.00		48.00	17.24	38.00	21.79	48.00			3
162.0	241.3	34.9	8	31.30	69.00		68.40	29.00	63.90	33.11	73.00			4
197.0	292.1	41.3	8	59.02	130.00		129.60	54.00	119.00	60.00	132.30			5
229.0	317.5	38.1	12	74.91	165.00		163.00	62.00	136.70	75.00	165.30			6
292.0	393.7	44.5	12	123.83	273.00		258.00	129.73	236.00	136.98	302.00			8
368.0	482.6	50.8	12	205.93	454.00		435.40	220.19	485.40	229.97	507.00			10
451.0	571.5	54.0	16	306.00	674.60		582.00	286.02	630.60	316.00	696.70			12
495.0	635.0	60.3	16	416.00	917.00			404.06	890.80	421.00	928.00			14
552.0	704.8	66.7	16	567.50	1250.00			522.10	1151.00	559.00	1232.70			16
597.0	774.7	73.0	16	736.00	1622.60			669.65	1476.30	761.00	1677.70			18
641.0	831.8	79.4	16	929.00	2048.00			805.85	1776.60	967.00	2131.80			20
762.0	990.6	92.1	16	1504.00	3315.70			1285.55	2834.00	1568.00	3456.80			24



ASME B16.5 CLASS 2500 PIPE FLANGES

Dimensions in mm

Nominal Pipe Size	Outside Diameter	Thickness	Raised Face Diameter	Corner Radius of Bore of Lap Joint	Bore			Length thru hub				Thread Length Threaded Flange (Min)	Diameter Hub at Bevel
					Welding Neck	Lap Joint	Diameter Counter Bore Threaded	Welding Neck	Threaded	Lap Joint			
	O	C	R	r	B1	B3	Q	Y1	Y2	Y3	T	A	
1/2	135.0	30.2	34.9	34.9		22.9	23.6	73.0	40.0	29.0	29.0	21.3	
3/4	140.0	31.8	42.9	42.9		28.2	29.0	79.0	43.0	32.0	32.0	26.7	
1	160.0	35.0	50.8	50.8		34.9	35.8	89.0	48.0	35.0	35.0	33.4	
1 1/4	185.0	38.1	63.5	63.5		43.7	44.4	95.0	52.0	39.0	39.0	42.2	
1 1/2	205.0	44.5	73.0	73.0		50.0	50.6	111.0	60.0	45.0	45.0	48.3	
2	235.0	50.9	92.1	92.1		62.5	63.5	127.0	70.0	51.0	51.0	60.3	
2 1/2	265.0	57.2	104.8	104.8		75.4	76.2	143.0	79.0	58.0	58.0	73.0	
3	305.0	66.7	127.0	127.0		91.4		168.0	92.0			88.9	
4	355.0	76.2	157.2	157.2		116.8		190.0	108.0			114.3	
5	420.0	92.1	185.7	185.7		144.4		229.0	130.0			141.3	
6	485.0	108.0	215.9	215.9		171.4		273.0	152.0			168.3	
8	550.0	127.0	269.9	269.9		222.2		318.0	178.0			219.1	
10	675.0	165.1	323.8	323.8		277.4		419.0	229.0			273.0	
12	760.0	184.2	381.0	381.0		328.2		464.0	254.0			323.8	

Dimensions in mm

Hub Diameter	Drilling			Approximate Weight								Nominal Pipe Size
	Bolt Circle Diameter	Diameter of Bolt Holes	Number of Bolt Holes	Welding Neck		Slip On Threaded		Lap Joint		Blind		
				Kg	lb	Kg	lb	Kg	lb	Kg	lb	
X												
43.0	88.9	22.2	4	3.18	7.00	3.18	7.00	3.00	6.60	3.18	7.00	1/2
51.0	95.2	22.2	4	4.08	9.00	4.08	9.00	3.63	8.00	4.54	10.00	3/4
57.0	108.0	25.4	4	5.45	12.00	5.44	12.00	4.99	11.00	5.44	12.00	1
73.0	130.2	28.6	4	9.07	20.00	8.16	18.00	7.26	16.00	8.16	18.00	1 1/4
79.0	146.0	31.8	4	11.35	25.00	11.00	24.30	9.99	22.00	10.44	23.00	1 1/2
95.0	171.4	28.6	8	19.07	42.00	17.25	38.00	16.80	37.00	17.71	39.00	2
114.0	196.8	31.8	8	23.61	52.00	24.97	55.00	24.06	53.00	25.42	56.00	2 1/2
133.0	228.6	34.9	8	42.68	94.00			36.32	80.00	39.04	86.00	3
165.0	273.0	41.3	8	64.00	141.00			54.48	120.00	60.38	133.00	4
203.0	323.8	47.6	8	110.68	244.00			92.53	204.00	101.15	223.00	5
235.0	368.3	54.0	8	176.46	378.00			143.01	315.30	156.63	345.00	6
305.0	438.2	54.0	12	261.27	576.00			213.38	470.40	240.62	530.50	8
375.0	539.8	66.7	12	484.43	1068.00			408.60	900.80	465.36	1026.00	10
441.0	619.1	73.0	12	692.35	1526.00			572.95	1263.00	664.06	1464.00	12