

INO ENERGY EQUIPMENT CO., LTD.
锆炼能源科技(上海)有限公司



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PIPE FITTINGS 管件

INO-ENERGY

PROFESSIONAL MANUFACTURER OF PRESSURE PIPING SYSTEM

压力管道系统专业制造商

INO-ENERGY
集I合I智 求I精I实I买

CONTENTS

目录

Brand Definition/品牌释义	03
Enterprise Profile/企业简介	04
Enterprise Qualification/企业资质	05
Product Scope/产品范围	07
Manufacturing Process/工艺流程	09
Production Equipments/生产设备	11
Quality Control/质量控制	13
Butt-Welding Fittings/对焊管件	15
Tolerances of Butt-Welding Fittings/对焊管件公差	43
End Preparation/端部制备	46
Forged Fittings/锻制管件	47
Forged Flanges/锻制法兰	51
Dimensions and Weights Schedule/尺寸和重量表	53
Weights Schedule of Butt-Welding Fittings/对焊管件重量表	54
The General Materials for Pipe Fittings/管件常用材料	58
The General Raw Materials/常用原材料	61

INO-ENERGY

THE MOST RELIABLE PARTNER

最值得信赖的伙伴





Large-Diameter
Welded Carbon Steel Fittings
大口径焊接碳钢管件



Large-Diameter
Welded Pipeline Steel Fittings
大口径焊接管线钢管件



Barred Tees
清管三通



EN Standard Pipe Fittings
欧标管件



Sour Service Fittings
抗硫管件



Cladded Fittings
复合管件



Coated Bends
防腐弯管



Alloy Steel Fittings
合金管件



Seamless Carbon Steel Fittings
无缝碳钢管件



Flanges
法兰



Forged Fittings
锻制管件



Copper Alloy Fittings
铜合金管件



Nickel Alloy Fittings
镍合金管件



Ferritic/Austenitic
Stainless Steel Fittings
铁素体-奥氏体不锈钢管件



Seamless Stainless Steel Fittings
无缝不锈钢管件



Large-Diameter
Welded Stainless Steel Fittings
大口径焊接不锈钢管件



Reducing Elbows
异径弯头



180° Returns
180°弯头



Galvanized Laterals
镀锌侧三通



Saddles
鞍座



Pressure Vessels
压力容器



Pipe Prefabrication
管道预制



Special Tees
特殊三通



Long Tangent Tees
长直段三通



Miter Bends
斜接弯头



Coated Fittings
防腐管件

压力管道系统 专业制造商

Professional Manufacturer of Pressure Piping System

Brand Definition/品牌释义



Operation Philosophy/经营理念

Forging Ahead, Making Innovation.
Steady Development, Achieving Win-Win.
开拓进取，科技创新，稳健发展，实现共赢。

Service Philosophy/服务理念

Enterprise keeps abreast with market.
Management integrates with the world.
企业与市场同步，管理与世界接轨。

Core Philosophy/核心理念

Pool Wisdom, Pursue Refinement.
Improve Quality, Highlight Honesty.
集思广智，求精务实，质量第一，诚信至上。

Management Philosophy/管理理念

Solidarity & Cooperation, Collaboration & Unification.
Professionalism & Dedication, Technology & Management.
团结合作，协同统一，专业专注，科学管理。



Company Profile /公司简介

INO ENERGY EQUIPMENT CO., LTD Located in Yingkou, Liaoning Province, INO ENERGY covers an area of 30000 square meters. Our annual production capacity reaches 5000 tons. We employ more than 180 people and own a team of experienced senior engineers and technical experts.

INO ENERGY is a professional manufacturer of pipe fittings. Our products are widely used in oil, gas, petrochemical, ship-building and power plant industries. Our products can be also used for offshore, FPSO and FLNG applications. INO ENERGY's products include TEE, CROSS, ELBOW, concentric and eccentric REDUCERS, STUB END, CAP and FLANGE made of carbon steel, alloy steel, stainless steel and nickel base alloy steel. Our products are manufactured with size up to 100" in accordance with ASME, ANSI, MSS, DIN, JIS, etc. We can also produce various non-standard products according to customer's technical requirements. What's more, we also manufacture products suitable for sour service, which meet the requirements of NACE MR0175 and ISO 15156.

INO ENERGY has independent cold forming workshop for stainless steel, hot forming workshop for carbon steel and alloy steel, forging facility and pre-fabricated pipeline spool workshop. The company has a complete set of production equipment. At present, we have about 150 sets of advanced equipment, such as four column hydraulic press(3000T), medium frequency press machine (3000T), elbow cold forming machine (DN800), TEE cold extrusion machine (DN500), medium frequency elbow machine (DN1000, Thk30mm), plate rolling machine(3200mm*55mm). The maximum diameter of seamless pipe fittings can reach DN600, wall thickness ≤ 120mm; the maximum diameter of welded pipe fittings can reach DN2500, wall thickness ≤ 100mm; the maximum diameter of forged pipe fittings can reach DN600.

INO ENERGY's comprehensive quality control plan designed by senior experts and academic consultants in quality and standards field which has been implemented since the establishment of INO ENERGY. The company is also equipped with advanced testing equipment to ensure products quality.

INO ENERGY takes "Serve with Heart to Achieve Mutual Benefits" as the corporate culture, HONESTY and INTEGRITY as the code of conduct, and provides customers with the best service 24 * 7 through modern management system!

铸锻能源工厂位于辽宁省营口市，占地面积30000平方米，年产能5000吨。公司现有员工180人，拥有资深工程师和专业技术团队。

铸锻能源是专业的管道配件生产商。产品广泛运用于海洋石油、天然气、化工、造船和发电等绿色能源领域。铸锻能源的产品涵盖以碳钢、合金钢、不锈钢、镍基合金等材质的三通、四通、弯头、同偏心异径管、翻边短接、管帽和法兰等。产品规格覆盖范围：1/2"-100"，可满足ASME、ANSI、MSS、DIN和JIS等标准要求，也可按客户要求制作各种非标产品。我们同时生产适合酸性环境的产品，符合NACE MR0175和ISO 15156要求。

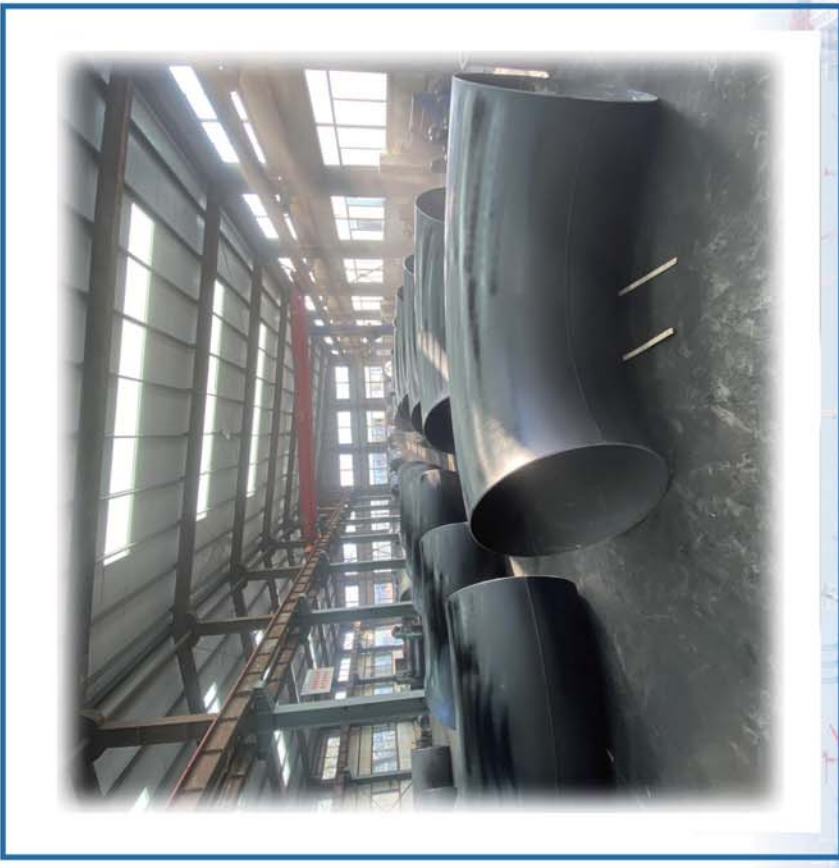
铸锻能源工厂拥有独立的不锈钢冷成型加工车间、碳钢和合金钢热成型加工车间、法兰生产加工车间、管道预制生产车间。公司生产设备齐全，目前拥有3000吨四柱压机、中频推制机（3000T）、弯头冷成型机(DN800)、三通冷压机（DN500）、大型中频弯管机（DN1000, Thk30mm）、卷板机（3200mm*55mm）等先进设备，共计约150台/套。无缝管件最大口径可到DN600，壁厚≤120mm，有缝管件最大口径可到DN2500，壁厚≤100mm，锻制管件最大直径可至DN600。

铸锻能源的全面质量控制体系由特聘请的质量和标准领域资深专家和学术顾问精心设计，自公司成立以来一直严格按照此体系要求执行。公司也配备了先进的检测设备，以确保产品质量。

铸锻能源以用心服务，合作共赢为企业文化；以诚信和正量为行为准则；通过现代化的管理模式，全天候为客户提供最优质的服务！

Enterprise Qualification /企业资质

- Quality Management System Certificate (ISO9001: 2015)/质量管理体系认证证书 (ISO9001: 2015)
- Environment Management System Certificate (ISO14001: 2004)/ 环境管理体系认证证书 (ISO14001: 2004)
- Occupation Health Safety Management System Certificate (GB/T28001-2011)/职业健康安全管理体系认证证书 (GB/T28001-2011)



Product Scope / 产品范围

Steel Type 材质类型	Product Type 产品类型	Dimension 尺寸	Material 材质	Wall Thickness 壁厚	Manufacture Standard 制造标准
Carbon & Alloy Steel 碳钢和合金钢	Elbow	1/2"-120"	• A234 WPB - WPC • P235GH - P265GH - P265NL1 • A234 WP1 - WP11 - WP12 - WP5 • WP22- WP9 - WP91 • 16Mo3 - 10CrMo9-10 - 13CrMo4-5	SCH10-SCH160	ASME B16.9 MSS SP-75 EN10253-2 As per Technical Drawings
	Tee	1/2"-120"			
	Reducer	1/2"-120"			
	Cap	1/2"-120"			
Line Pipe Steel 管线钢	Elbow	1/2"-120"	• A860 WPHY42-WPHY46-WPHY52 • WPHY60-WPHY65-WPHY70-WPHY80 • L245NB-L280NB-L360NB-415NB • L380QB-L415QB-L450QB-L485QB • L555QB-F355NH-F460QL1	SCH10-SCH160	ASME B16.9 MSS SP-75 EN10253-2 As per Technical Drawings
	Tee	1/2"-120"			
	Reducer	1/2"-120"			
	Cap	1/2"-120"			
Low Temperature Steel 低温钢	Elbow	1/2"-120"		SCH10-SCH160	ASME B16.9 MSS SP-75 EN10253-2 As per Technical Drawings
	Tee	1/2"-120"	• A420 WPL6		
	Reducer	1/2"-120"			
	Cap	1/2"-120"			
Stainless Steel 不锈钢	Elbow	1/2"-76"			ASME B16.9 MSS SP-75 EN10253-4
	Tee	1/2"-76"	• A403 WP304/304L/304H • WP316/316L/316H - WP321/321H • Equivalent grades of EN 10253-3 • EN 10253-4	SCH10-SCH160	ASME B16.9 MSS SP-75 EN10253-4 As per Technical Drawings
	Reducer	1/2"-76"			
	Cap	1/2"-76"			
Ferritic/Austenitic Stainless Steel 铁素体-奥氏体不锈钢	Lap Joint Stub End	1/2"-48"		SCH5S-SCH80	ASME B16.9 MSS SP-43 EN10253-4
	Elbow	1/2"-24"			ASME B16.9
	Tee	1/2"-24"	• A815 S31803 - S32750	SCH5S-SCH160S	ASME B16.9 MSS SP-75 EN10253-4
	Reducer	1/2"-24"			
Nickel Alloy Steel 镍合金钢	Cap	1/2"-24"			
	Elbow	1/2"-16"			ASME B16.9
	Tee	1/2"-16"	• B366 N04400 - N06600 - N06625	SCH5S-SCH80	ASME B16.9
	Reducer	1/2"-16"			
Copper Alloy Steel 铜合金钢	Cap	1/2"-16"			
	Elbow	1"-20"			ASME B16.9
	Tee	1"-20"	• B466 UNS C70600 (CuNi 90/10) • UNS C71500 (CuNi 70/30)	2.5mm-8.5mm	ASME B16.9 EEMUA 146
	Reducer	1"-20"			
	Cap	1"-20"			



Steel Type 材质类型	Product Type 产品类型	Dimension 尺寸	Material 材质	Wall Thickness 壁厚	Manufacture Standard 制造标准
Forged Steel 锻件	Elbow	1/2"-4"			ASME B16.11
	Tee	1/2"-4"			
	Cap	1/2"-4"			
	Coupling	1/2"-4"			
	Union	1/2"-4"	• A105 • A182 F11 - F22 - F91 - F304L - F316L - F321 • F81 - F83 • A350 LFI - LF2 • A694 F52 - F60 - F65 - F70	3000LB-9000LB	MSS SP-83 BS3799
	Boos	1/2"-4"			MSS SP-95
	Swaged Nipples	1/2"-4"			ASME B16.11
	Plug	1/2"-4"			MSS SP-97
	Outlets	1/2"-24"			ASME B16.11
	Socket & Threaded Tee	1/2"-4"			ASME B16.11
Flange 法兰	ANSI Slip-On	1/2"-24"		150#-2500#	
	ANSI WID Neck	1/2"-24"		150#-2500#	
	ANSI SW	1/2"-24"	Carbon steel • A515 - A516 - A285 - SS400 • SB400 - SM400A - A182CL7, etc.	150#-2500#	
	ANSI THRD	1/2"-24"		150#-2500#	
	ANSI Lap Joint	1/2"-24"		150#-2500#	
	ANSI Ring Joint	1/2"-24"	Forged Carbon Steel • S25C - A105 - A266 - SF440 • A36, Etc.	150#-2500#	ANSI B16.5
	Long WID Neck	1/2"-24"		300#-2500#	
	Orifice Flange	1/2"-24"		150#-900#	
	MSS Flange	12"-60"		75#, 150#, 300#	ANSI B16.47
	API Flange	26"-60"	Plate Stainless Steel • SUS304 - SUS304L - SUS316 • SUS316L, Etc.	2000#-5000#	
	API 6B Flange	2-1/16"-21-1/4"		2000#-3000#	
	API 6BX Flange	26-3/4"-30"		5000#-10000#	
	API 6BX Flange	1-13/16"-21-1/8"	Forged Stainless Steel • A182 F304 - F304L - F316 - F316L • F321 - F347H, Etc.	1500#	EN1092-1*
	API 6BX Flange	1-13/16"-18-3/4"		20000#	
	API 6BX Flange	1-13/16"-13-5/8"		Class B3D Class E	
	AWWA Slip-On	4"-120"	Alloy Steel • A182 F11 - F12 - F22 - F91, Etc.	6 8in-40 8in 6 8in-40 8in	
	AWWA Blind	4"-120"		2Kgtcm2-21Kgtcm2	
	DIN WID Neck		Others • A350 LFI - LF2; A694 F52 - F60 • F65 - F70, Etc.	150LB-900LB	
	DIN Slip-On			150LB-300LB	
	DIN Blind				
	KS&JIS Flange				
	Spectacle Spacer Blanks	1"-36"			
	Spectacle Flange RF&RF	1/3"-10"			

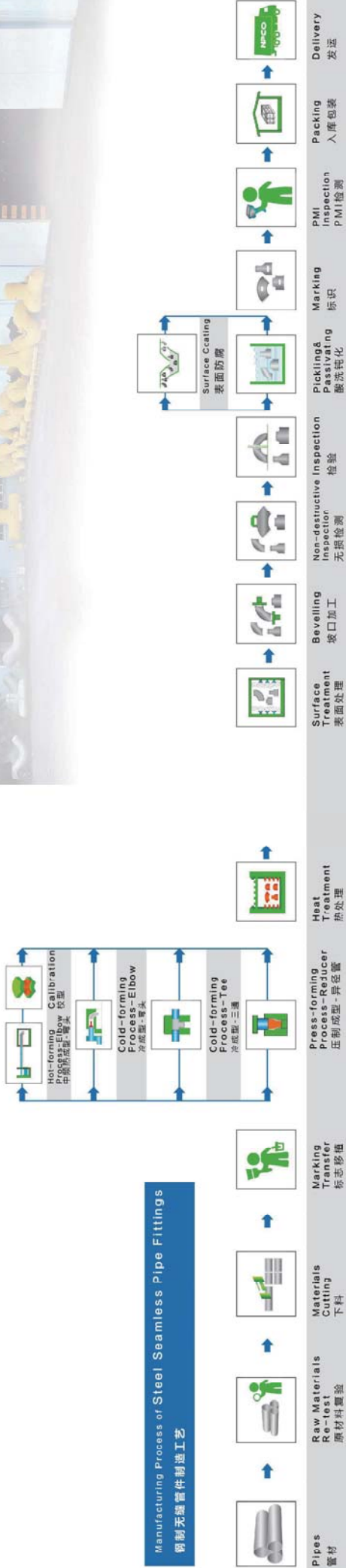


Manufacturing Process / 工艺流程图



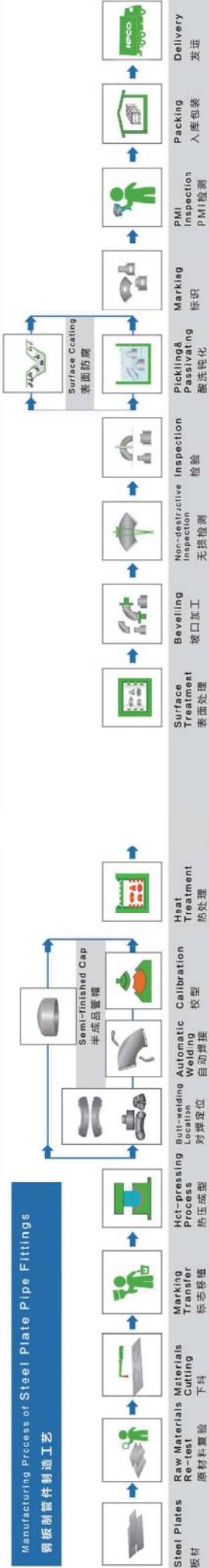
Manufacturing Process of Steel Seamless Pipe Fittings

钢制无缝管件制造工艺



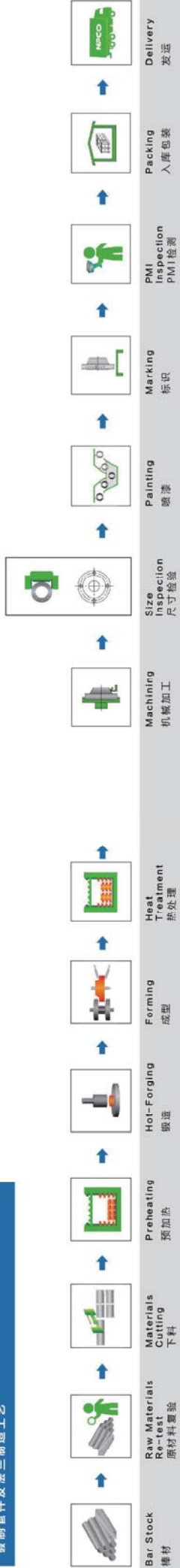
Manufacturing Process of Steel Plate Pipe Fittings

钢板制管件制造工艺



Manufacturing Process of Forged Fittings & Flanges

锻制管件及法兰制造工艺



Production Equipments /生产设备

Since its development until now, the enterprise has already owned the complete production lines of pipe fittings, the advanced production equipments can guarantee the safety and the reliability of products.
企业发展至今，已经拥有了完整的管道配件生产线，先进的生产设备确保产品的安全与可靠。

- 3000T Hydraulic Forming Machines
- 2000T Hydraulic Forming Machines
- 1500 T Cold Forming Machines of Tees
- 500T & 200T Hot Forming Machines of Bends and Elbows
- 800T & 500T Cold Forming Machines of Stainless Steel Elbows
- 500T, 300T, 200T & 100T Hydraulic Forming Machines of Reducers & Caps
- Cutting Machines for Plates, Pipes & Bars
- Automatic Welding Machines
- Heat Treatment Equipments
- Surface Treatment Equipments
- Shot Blasting Equipments
- Bevelling Machines
- 高压管件成型液压机3000吨
- 大口径管件成型液压机2000吨
- 三通冷成型液压机1500吨
- 弯头、弯管热成型推制机500吨、200吨
- 不锈钢弯头冷成型液压机800吨、500吨
- 异径管、管帽成型液压机500吨、300吨、200吨、100吨
- 自动切割机（板材、管材、棒材）
- 自动焊接设备
- 热处理炉
- 表面处理设备
- 卷板机
- 钢管、弯头、三通坡口机

- Flange and Socket Processing Units (numerically-controlled lathes, common lathe, vertical lathe and drilling machines)
- 法兰、承插件加工设备（数控车床、普车、立车、钻床）



Hydraulic Forming Machines 液压机
Tee Forming Machines 三通机
Elbow Cold Forming Machines 弯头冷成型机



Hot Forming Machines 中频推制机
Automatic Welding Machines of Tees 自动焊接设备 三通
Automatic Welding Machines of Elbows 自动焊接设备 弯头
Rolling Machines 卷板机



Heat Treatment Equipments of Large Size 大型热处理设备
Heat Treatment Equipments of Small Size 小型热处理设备
Surface Treatment Equipments of Large Size 大型表面处理设备
Surface Treatment Equipments of Small Size 小型表面处理设备



Automatic Cutting Machines of Steel Plates 板材自动切割机
Automatic Cutting Machines of Pipes & Bars 管材及棒材自动切割机
Bevelling Machines of Large Size 大型坡口机
Bevelling Machines of Small Size 小型坡口机



Machining Workshops 机加车间
Dies 模具
Dies 模具

Quality Control / 质量控制

Since its foundation, the Company has always attached great importance to the improvement of quality system. By continuously learning from the advanced quality management experience at home and abroad, we have further improved the construction of quality inspection team, and have strengthened the construction of quality inspection lab. As a result, all links are put under control, from the pre-sale links such as new product development, design and material purchase, to the in-sale links such as blanking, production, inspection, control, supervision and review. In addition, we have filed the user information of the delivered products, to ensure a good traceability of product quality.

公司自创建以来，始终注重质量系统的完善，在不断学习、借鉴国内外先进的质量管理经验基础上，进一步完善了企业的质量检测团队建设，加强了质量检测实验室建设，使出厂的产品从建前的新产品开发、设计、材料采购，到售中的下料、生产、检测、控制、监督、复核，每一个环节始终处于受控状态，同时还对已交付的产品进行用户档案登记，保证产品质量的可追溯性。



Desktop Spectral Analysis
台式光谱分析



Portable Spectral Analysis
便携式光谱分析



Normal-temperature Mechanical Property Test
常温机械性能试验



Impact Test
冲击试验



Hydraulic Test
水压试验



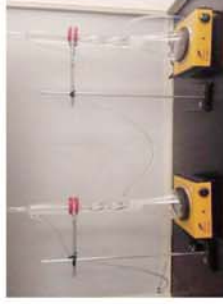
Burst Test
爆破试验



Ferrite Content Testing
铁素体含量检测



Metallographical Microscopic Analysis
金相显微分析



Intergranular Corrosion Test
晶间腐蚀试验



UT Inspection
超声波探伤



X-Ray Detection
X射线探伤



Portable MT Inspection
磁粉探伤



PT Inspection
渗透探伤



Leeb Hardness Test
里氏硬度检测



Brinell Hardness Test
布氏硬度检测



Wall Thickness Measurement
测厚仪

Butt-Welding Fittings / 对焊管件

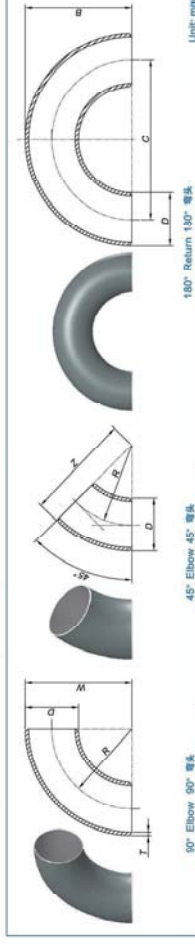
ELBOWS/弯头 ASME B16.9 (1/2" ~ 48") MSS SP-75 (16" ~ 60")



Nominal Size 公称尺寸		Outside Diameter 接口处外径		Center to End 中心至端面		Center to Center 中心至中心		Back to Face 背部至端面	
		90° Elbow 90° 弯头	45° Elbow 45° 弯头	90° Elbow 90° 弯头	45° Elbow 45° 弯头	180° Return 180° 弯头	180° Return 180° 弯头	90° Elbow 90° 弯头	45° Elbow 45° 弯头
NPS (inch)	DN	Long Radius 长半径	Short Radius 短半径	Long Radius 长半径	Short Radius 短半径	Long Radius 长半径	Short Radius 短半径	Long Radius 长半径	Short Radius 短半径
1/2	15	21.3	38	15	19	76	48	—	—
3/4	20	26.7	38	25	22	76	51	56	41
1	25	33.4	48	32	25	95	64	70	52
1 1/4	32	42.2	57	38	23	114	76	83	62
1 1/2	40	48.3	64	44	35	127	83	91	70
2	50	60.3	76	51	40	152	102	106	81
2 1/2	65	73	95	54	44	190	127	132	100
3	80	88.9	114	64	51	229	152	159	121
3 1/2	90	101.6	133	68	57	267	178	184	140
4	100	114.3	152	76	64	305	203	210	159
5	125	141.3	190	102	79	381	254	262	197
6	150	168.3	229	127	95	457	305	313	237
8	200	219.1	305	165	127	610	406	414	313
10	250	273	381	203	159	762	508	518	391
12	300	323.8	457	254	190	914	610	619	467
14	350	355.6	533	305	229	1067	711	711	533
16	400	406.4	610	356	254	1219	813	813	610
18	450	457	686	406	283	1372	914	914	686
20	500	508	762	457	313	1524	1016	1016	762
22	550	559	838	508	343	1676	1118	1118	838
24	600	610	914	559	368	1829	1219	1219	914
26	650	660	991	610	406	—	—	—	—
28	700	711	1067	660	438	—	—	—	—
30	750	762	1143	711	470	—	—	—	—
32	800	813	1219	762	502	—	—	—	—
34	850	864	1295	813	533	—	—	—	—
36	900	914	1372	864	565	—	—	—	—
38	950	965	1448	914	600	—	—	—	—
40	1000	1016	1524	965	632	—	—	—	—
42	1050	1067	1600	1016	660	—	—	—	—
44	1100	1118	1676	1067	695	—	—	—	—
46	1150	1168	1753	1118	727	—	—	—	—
48	1200	1219	1829	1168	759	—	—	—	—
50	1250	1270	1905	1219	787	—	—	—	—
52	1300	1320.8	1981	1270	819	—	—	—	—
54	1350	1371.6	2057	1320.8	851	—	—	—	—
56	1400	1422.4	2134	1371.6	883	—	—	—	—
58	1450	1473.2	2210	1422.4	914	—	—	—	—
60	1500	1524	2286	1473.2	946	—	—	—	—

Page 13 Manufacturing Type: Seamless/Welded - 制造类型: 无缝/有缝

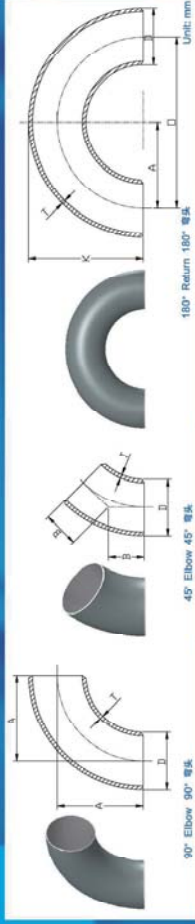
ELBOWS/弯头 EN10253-2/A (1/2" ~ 48")



Nominal Size 公称尺寸		Outside Diameter 接口处外径		Center to End 中心至端面		Center to Center 中心至中心		Back to Face 背部至端面	
		90° Elbow 90° 弯头	45° Elbow 45° 弯头	90° Elbow 90° 弯头	45° Elbow 45° 弯头	180° Return 180° 弯头	180° Return 180° 弯头	90° Elbow 90° 弯头	45° Elbow 45° 弯头
NPS (inch)	DN	Long Radius 长半径	Short Radius 短半径	Long Radius 长半径	Short Radius 短半径	Long Radius 长半径	Short Radius 短半径	Long Radius 长半径	Short Radius 短半径
1/2	15	21.3	38	15	19	76	48	—	—
3/4	20	26.9	38	25	22	76	51	56	41
1	25	33.7	48	32	25	95	64	70	52
1 1/4	32	42.4	57	38	23	114	76	83	62
1 1/2	40	48.3	64	44	35	127	83	91	70
2	50	60.3	76	51	40	152	102	106	81
2 1/2	65	76.1	95	54	44	190	127	132	100
3	80	88.9	114	64	51	229	152	159	121
3 1/2	90	101.6	133	68	57	267	178	184	140
4	100	114.3	152	76	64	305	203	210	159
5	125	139.7	190	102	79	381	254	262	197
6	150	158.3	229	127	95	457	305	313	237
8	200	219.1	305	165	127	610	406	414	313
10	250	273	381	203	159	762	508	518	391
12	300	323.9	457	254	190	914	610	619	467
14	350	355.6	533	305	229	1067	711	711	533
16	400	406.4	610	356	254	1219	813	813	610
18	450	457	686	406	283	1372	914	914	686
20	500	508	762	457	313	1524	1016	1016	762
22	550	559	838	508	343	1676	1118	1118	838
24	600	610	914	559	368	1829	1219	1219	914
26	650	660	991	610	406	—	—	—	—
28	700	711	1067	660	438	—	—	—	—
30	750	762	1143	711	470	—	—	—	—
32	800	813	1219	762	502	—	—	—	—
34	850	864	1295	813	533	—	—	—	—
36	900	914	1372	864	565	—	—	—	—
38	950	965	1448	914	600	—	—	—	—
40	1000	1016	1524	965	632	—	—	—	—
42	1050	1067	1600	1016	660	—	—	—	—
44	1100	1118	1676	1067	695	—	—	—	—
46	1150	1168	1753	1118	727	—	—	—	—
48	1200	1219	1829	1168	759	—	—	—	—
50	1250	1270	1905	1219	787	—	—	—	—
52	1300	1320.8	1981	1270	819	—	—	—	—
54	1350	1371.6	2057	1320.8	851	—	—	—	—
56	1400	1422.4	2134	1371.6	883	—	—	—	—
58	1450	1473.2	2210	1422.4	914	—	—	—	—
60	1500	1524	2286	1473.2	946	—	—	—	—

Note: 1. Manufacturing Type: Seamless/Welded - 制造类型: 无缝/有缝

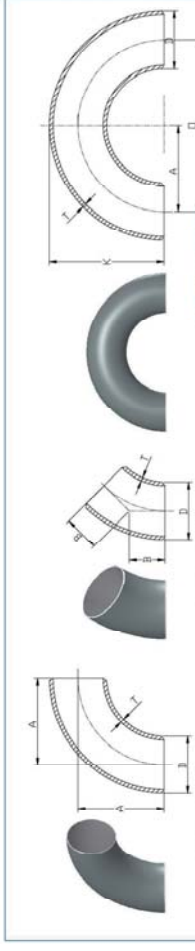
ELBOWS/弯头 GBT 12459 (1/2" ~ 60")



Nominal Size 公称尺寸		Outside Diameter at Bevel 接口处外径		Center to End 中心至端部		Center to Center 中心至中心		Back to Face 背部至端面	
				90° Elbow 90° 弯头		180° Return 180° 弯头			
				A	B	O	K		
NPS (inch)	DN	Series I I 系列	Series II II 系列	Long Radius 长半径	Short Radius 短半径	Long Radius 长半径	Short Radius 短半径	Series I I 系列	Series II II 系列
1/2	15	21.3	18	38	—	76	—	48	47
3/4	20	26.9	25	38	—	76	—	51	51
1	25	33.7	32	38	25	76	51	56	54
1 1/4	32	42.4	38	48	32	95	64	70	67
1 1/2	40	48.3	45	57	38	114	76	83	80
2	50	60.3	57	76	51	152	102	106	105
2 1/2	65	73	76	95	64	190	127	132	133
3	80	88.9	89	114	76	229	152	159	159
3 1/2	90	101.6	—	133	89	267	178	184	—
4	100	114.3	108	152	102	305	203	210	206
5	125	141.3	133	190	127	381	254	262	257
6	150	168.3	159	229	152	457	305	313	308
8	200	219.1	219	305	203	610	406	414	414
10	250	273	273	381	254	762	508	518	518
12	300	323.8	325	457	305	914	610	619	620
14	350	355.6	377	533	356	1067	711	711	722
16	400	406.4	426	610	406	1219	813	813	823
18	450	457	480	686	457	1372	914	914	925
20	500	508	530	762	508	1524	1016	1016	1026
22	550	559	—	838	559	1676	1118	1118	—
24	600	610	630	914	610	1829	1219	1219	1229
26	650	660	—	991	—	—	—	—	—
28	700	711	720	1067	—	—	—	—	—
30	750	762	—	1143	—	—	—	—	—
32	800	813	820	1219	—	—	—	—	—
34	850	864	—	1295	—	—	—	—	—
36	900	914	—	1372	—	—	—	—	—
38	950	965	—	1448	—	—	—	—	—
40	1000	1016	—	1524	—	—	—	—	—
42	1050	1067	—	1600	—	—	—	—	—
44	1100	1118	—	1676	—	—	—	—	—
46	1150	1168	—	1753	—	—	—	—	—
48	1200	1219	—	1829	—	—	—	—	—
50	1250	1270	—	1905	—	—	—	—	—
52	1300	1321	—	1981	—	—	—	—	—
54	1350	1372	—	2057	—	—	—	—	—
56	1400	1422	—	2134	—	—	—	—	—
58	1450	1473	—	2210	—	—	—	—	—
60	1500	1524	—	2286	—	—	—	—	—
62	1550	1575	—	2362	—	—	—	—	—
64	1600	1626	—	2438	—	—	—	—	—
66	1650	1667	—	2514	—	—	—	—	—
68	1700	1727	—	2591	—	—	—	—	—
70	1750	1778	—	2667	—	—	—	—	—
72	1800	1829	—	2743	—	—	—	—	—
74	1850	1881	—	2819	—	—	—	—	—
76	1900	1930	—	2896	—	—	—	—	—
78	1950	1981	—	2972	—	—	—	—	—
80	2000	2032	—	3048	—	—	—	—	—
82	2050	2083	—	3124	—	—	—	—	—
84	2100	2134	—	3200	—	—	—	—	—
86	2150	2185	—	3276	—	—	—	—	—
88	2200	2235	—	3352	—	—	—	—	—
90	2250	2286	—	3428	—	—	—	—	—
92	2300	2336	—	3504	—	—	—	—	—
94	2350	2385	—	3580	—	—	—	—	—
96	2400	2438	—	3657	—	—	—	—	—
98	2450	2489	—	3733	—	—	—	—	—
100	2500	2540	—	3809	—	—	—	—	—
102	2550	2591	—	3885	—	—	—	—	—
104	2600	2642	—	3961	—	—	—	—	—
106	2650	2683	—	4037	—	—	—	—	—
108	2700	2724	—	4113	—	—	—	—	—
110	2750	2765	—	4189	—	—	—	—	—
112	2800	2816	—	4265	—	—	—	—	—
114	2850	2867	—	4341	—	—	—	—	—
116	2900	2918	—	4417	—	—	—	—	—
118	2950	2969	—	4493	—	—	—	—	—
120	3000	3048	—	4569	—	—	—	—	—
122	3050	3099	—	4645	—	—	—	—	—
124	3100	3140	—	4721	—	—	—	—	—
126	3150	3181	—	4797	—	—	—	—	—
128	3200	3232	—	4873	—	—	—	—	—
130	3250	3283	—	4949	—	—	—	—	—
132	3300	3334	—	5025	—	—	—	—	—
134	3350	3375	—	5101	—	—	—	—	—
136	3400	3426	—	5177	—	—	—	—	—

Note: 1. Manufacturing type: Seamless/Welded - 制造形式: 无缝/焊接

ELBOWS/弯头 SHT 3408 (1/2" ~ 136")



Nominal Size 公称尺寸		Outside Diameter at Bevel 坡口处外径		Center to End 中心至端部		Center to Center 中心至中心		Back to Face 背部至端面	
				90° Elbow 90° 弯头		180° Return 180° 弯头		180° Return 180° 弯头	
				A	B	O	K		
1/2	15	21.3	38	—	16	76	—	48	—
3/4	20	26.7	38	—	19	76	—	51	—
1	25	33.4	38	25	22	76	51	56	41
1 1/4	32	42.2	48	32	25	95	64	70	52
1 1/2	40	48.3	57	38	29	114	76	83	62
2	50	60.3	76	51	35	152	102	106	81
2 1/2	65	73	95	64	44	190	127	132	102
3	80	88.9	114	76	51	229	152	159	121
4	100	114.3	152	102	64	305	203	210	159
5	125	141.3	190	127	79	381	254	262	197
6	150	168.3	229	152	95	457	305	313	237
8	200	219.1	305	203	127	610	406	414	313
10	250	273	381	254	159	762	508	518	391
12	300	323.8	457	305	190	914	610	619	467
14	350	355.6	533	356	222	1067	711	711	533
16	400	406.4	610	406	254	1219	813	813	610
18	450	457	686	457	286	1372	914	914	686
20	500	508	762	508	318	1524	1016	1016	762
22	550	559	838	559	343	1676	1118	1118	838
24	600	610	914	610	381	1829	1219	1219	914
26	650	660	991	660	406	—	—	—	—
28	700	711	1067	711	438	—	—	—	—
30	750	762	1143	762	470	—	—	—	—
32	800	813	1219	813	502	—	—	—	—
34	850	864	1295	864	533	—	—	—	—
36	900	914	1372	914	565	—	—	—	—
38	950	965	1448	965	600	—	—	—	—
40	1000	1016	1524	1016	632	—	—	—	—
42	1050	1067	1600	1067	660	—	—	—	—
44	1100	1118	1676	1118	695	—	—	—	—
46	1150	1168	1753	1168	727	—	—	—	—
48	1200	1219	1829	1220	759	—	—	—	—
52	1300	1321	1981	1321	821	—	—	—	—
56	1400	1422	2134	1420	883	—	—	—	—
60	1500	1524	2286	1524	947	—	—	—	—
64	1600	1626	2438	1620	1010	—	—	—	—
68	1700	1727	2591	1727	1073	—	—	—	—
72	1800	1829	2743	1829	1137	—	—	—	—
76	1900	1930	2896	1930	1199	—	—	—	—
80	2000	2032	3048	2032	1263	—	—	—	—
88	2200	2235	3353	2235	1389	—	—	—	—
96	2400	2438	3657	2438	1515	—	—	—	—
104	2600	2642	3963	2642	1642	—	—	—	—
112	2800	2845	4268	2845	1768	—	—	—	—
120	3000	3048	4572	3048	1894	—	—	—	—
128	3200	3251	4876	3251	2020	—	—	—	—
136	3400	3454	5182	3454	2146	—	—	—	—

REDUCING ELBOWS/异径弯头 ASME B16.9 (2" ~ 24" SH/T 3408 (2" ~ 24")

Reducing Elbow 异径弯头

Unit: mm

Nominal Size 公称尺寸	D (mm)	Outside Diameter at Bevel 坡口处外径	Center to End 中心至端部	A
		Large End 大端 D	Small End 小端 D1	
2 x 1½	50 x 40		48.3	76
2 x 1¼	50 x 32	60.3	42.2	
2 x 1	50 x 25		33.4	
2½ x 2	65 x 50		60.3	95
2½ x 1½	65 x 40	73	48.3	
2½ x 1¼	65 x 32		42.2	
3 x 2½	80 x 65		73	114
3 x 2	80 x 50	88.9	60.3	
3 x 1½	80 x 40		48.3	
3½ x 2½	90 x 80		88.9	133
3½ x 2	90 x 65	101.6	73	
3½ x 1½	90 x 50		60.3	
4 x 3½	100 x 90		101.6	152
4 x 3	100 x 80	114.3	88.9	
4 x 2½	100 x 65		73	
4 x 2	100 x 50		60.3	190
5 x 4	125 x 100		114.3	
5 x 3½	125 x 90	141.3	101.6	
5 x 3	125 x 80		88.9	229
5 x 2½	125 x 65		73	
6 x 5	150 x 125		141.3	
6 x 4	150 x 100	168.3	114.3	305
6 x 3½	150 x 90		101.6	
6 x 3	150 x 80		88.9	
8 x 6	200 x 150		168.3	381
8 x 5	200 x 125	219.1	141.3	
8 x 4	200 x 100		114.3	
10 x 8	250 x 200		219.1	457
10 x 6	250 x 150	273	168.3	
10 x 5	250 x 125		141.3	
12 x 10	300 x 250		273	533
12 x 8	300 x 200	323.8	219.1	
12 x 6	300 x 150		168.3	
14 x 12	350 x 300		323.8	610
14 x 10	350 x 250	355.6	273	
14 x 8	350 x 200		219.1	
16 x 14	400 x 350		355.6	686
16 x 12	400 x 300	406.4	323.8	
16 x 10	400 x 250		273	
18 x 16	450 x 400		406.4	762
18 x 14	450 x 350	457	355.6	
18 x 12	450 x 300		323.8	
18 x 10	450 x 250		273	914
20 x 18	500 x 450		457	
20 x 16	500 x 400	508	406.4	
20 x 14	500 x 350		355.6	914
20 x 12	500 x 300		323.8	
20 x 10	500 x 250		273	
24 x 22	600 x 550		559	914
24 x 20	600 x 500	610	508	
24 x 18	600 x 450		457	
24 x 16	600 x 400		406.4	914
24 x 14	600 x 350		355.6	
24 x 12	600 x 300		323.8	

Note: ① Manufacturing type: Seamless/Welded - 制造形式: 无缝/焊接 ② SH/T 40818 Part 1 (2014)

Note: 1. Manufacturing type: Seamless/Welded - 制造形式: 无缝/焊接 SH/T 3408 Standard excludes the ORANGE part.

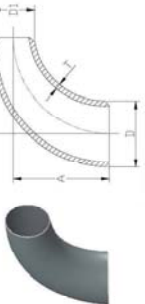
REDUCING ELBOWS/异径弯头 GB/T 12459 (2" ~ 24")

		Reducing Elbow 异径弯头		Unit: mm		
Nominal Size 公称尺寸		Outside Diameter at Bevel 坡口处外径			Center to End 中心至端部	
NPS (inch)	D (mm)	Large End 大端	Small End 小端			
		Series I I 系列	Series II II 系列	Series II II 系列	A	
2 x 1½	50 x 40			D1 I 系列	76	
2 x 1¼	50 x 32			48.3		45
2 x 1	50 x 25			42.4		38
2½ x 2	65 x 50			38.7	32	95
2½ x 1½	65 x 40			60.3	57	
2½ x 1¼	65 x 32			48.3	45	
2½ x 1½	65 x 40			42.4	38	114
3 x 2½	80 x 65			73	76	
3 x 2	80 x 50			89	63	
3 x 1½	80 x 40			48.3	45	133
3½ x 3	90 x 80			88.9	—	
3½ x 2½	90 x 65			101.6	73	
3½ x 2	90 x 50			60.3	—	152
4 x 3½	100 x 90			101.6	—	
4 x 3	100 x 80			108	88.9	
4 x 2½	100 x 65			108	73	190
4 x 2	100 x 50			108	60.3	
5 x 4	125 x 100			133	114.3	
5 x 3½	125 x 90			—	101.6	229
5 x 3	125 x 80			133	88.9	
5 x 2½	125 x 65			133	73	
6 x 5	150 x 125			168.3	141.3	305
6 x 4	150 x 100			168.3	114.3	
6 x 3½	150 x 90			—	101.6	
6 x 3	150 x 80			168.3	88.9	381
8 x 6	200 x 150			219.1	141.3	
8 x 5	200 x 125			219.1	114.3	
8 x 4	200 x 100			—	101.6	457
10 x 8	250 x 200			273	168.3	
10 x 6	250 x 150			273	141.3	
10 x 5	250 x 125			325	219.1	533
12 x 10	300 x 250			325	219.1	
12 x 8	300 x 200			323.9	168.3	
12 x 6	300 x 150			355.6	323.9	610
14 x 12	350 x 300			377	273	
14 x 10	350 x 250			219.1	219.1	
14 x 8	350 x 200			—	101.6	686
16 x 14	400 x 350			355.6	377	
16 x 12	400 x 300			426	323.9	
16 x 10	400 x 250			273	273	762
18 x 16	450 x 400			406.4	426	
18 x 14	450 x 350			355.6	377	
18 x 12	450 x 300			457	323.9	914
18 x 10	450 x 250			273	273	
20 x 18	500 x 450			457	480	
20 x 16	500 x 400			508	426	914
20 x 14	500 x 350			355.6	377	
20 x 12	500 x 300			323.9	325	
20 x 10	500 x 250			273	273	914
24 x 22	600 x 550			—	559	
24 x 20	600 x 500			630	530	
24 x 18	600 x 450			630	467	914
24 x 16	600 x 400			630	426	
24 x 14	600 x 350			630	377	
24 x 12	600 x 300			630	323.9	

Note: ① Manufacturing type: Saanleis/Widely. ② Material: 304 stainless steel.

Note: 1. Manufacturing type: Seamless/Welded - 制造形式: 无缝/焊接

REDUCING ELBOWS/异径弯头 SH/T 3408 (2" ~ 24")

Nominal Size 公称尺寸		Outside Diameter at Bevel 坡口处外径			Center to End 中心至端部	Unit: mm
NPS (inch)	D (mm)	Large End 大端	Small End 小端	D1		
						
2 x 1½	50 x 40			48.3	A	
2 x 1¼	50 x 32			42.2	76	
2 x 1	50 x 25		60.3	33.4		
2½ x 2	65 x 50			60.3		
2½ x 1½	65 x 40		73	48.3	95	
2½ x 1¼	65 x 32			42.2		
3 x 2½	80 x 65			73		
3 x 2	80 x 50		88.9	60.3	114	
3 x 1½	80 x 40			48.3		
4 x 3	100 x 80			88.9		
4 x 2½	100 x 65		114.3	73	152	
4 x 2	100 x 50			60.3		
5 x 4	125 x 100			114.3		
5 x 3	125 x 80		141.3	88.9	190	
5 x 2½	125 x 65			73		
6 x 5	150 x 125			141.3		
6 x 4	150 x 100		168.3	114.3	229	
6 x 3	150 x 80			88.9		
8 x 6	200 x 150			168.3		
8 x 5	200 x 125		219.1	141.3	305	
8 x 4	200 x 100			114.3		
10 x 8	250 x 200		273.1	219.1		
10 x 6	250 x 150		273.1	168.3	381	
10 x 5	250 x 125		273.1	141.3		
12 x 10	300 x 250			273.1	457	
12 x 8	300 x 200		323.9	219.1		
12 x 6	300 x 150			168.3		
14 x 12	350 x 300			323.9		
14 x 10	350 x 250		355.6	273.1	533	
14 x 8	350 x 200			219.1		
16 x 14	400 x 350			355.6		
16 x 12	400 x 300		406.4	323.9	610	
16 x 10	400 x 250			273.1		
18 x 16	450 x 400			406.4		
18 x 14	450 x 350		457	355.6	686	
18 x 12	450 x 300			323.9		
18 x 10	450 x 250			273.1		
20 x 18	500 x 450			457		
20 x 16	500 x 400			406.4		
20 x 14	500 x 350		508	355.6	762	
20 x 12	500 x 300			323.9		
20 x 10	500 x 250			273.1		
24 x 22	600 x 550			559		
24 x 20	600 x 500			508		
24 x 18	600 x 450			457	914	
24 x 16	600 x 400		610	406.4		
24 x 14	600 x 350			355.6		
24 x 12	600 x 300			323.9		

Note: ① Manufacturing type: Seamless/Welded - 制造类型: 无缝/有缝

Equal Tees/Crosses 等径三通/四通 ASME B16.9 (1/2" ~ 48") MSS SP-75 (16" ~ 60")

Nominal Size 公称尺寸		Outside Diameter at Bevel 接口处外径		Center to End 中心至端部	
NPS (inch)	DN (mm)	D		Run 主管	Outlet 出口
				C	M
1/2	15	21.3	25	25	25
3/4	20	26.7	29	29	29
1	25	33.4	38	38	38
1 1/4	32	42.2	48	48	48
1 1/2	40	48.3	57	57	57
2	50	60.3	64	64	64
2 1/2	65	73	76	76	76
3	80	88.9	86	86	86
3 1/2	90	101.6	95	95	95
4	100	114.3	105	105	105
5	125	141.3	124	124	124
6	150	168.3	143	143	143
8	200	219.1	178	178	178
10	250	273	216	216	216
12	300	323.8	254	254	254
14	350	355.6	279	279	279
16	400	406.4	305	305	305
18	450	457	343	343	343
20	500	508	381	381	381
22	550	559	419	419	419
24	600	610	432	432	432
26	650	660	495	495	495
28	700	711	521	521	521
30	750	762	559	559	559
32	800	813	597	597	597
34	850	864	635	635	635
36	900	914	673	673	673
38	950	965	711	711	711
40	1000	1016	749	749	749
42	1050	1067	762	762	762
44	1100	1118	813	813	813
46	1150	1168	851	851	851
48	1200	1219	889	889	889
50	1250	1270	933	933	933
52	1300	1320.8	978	978	978
54	1350	1371.6	1016	1016	1016
56	1400	1422.4	1054	1054	1054
58	1450	1473.2	1092	1092	1092
60	1500	1524	1118	1118	1118

Note: 注: Manufacturing type: Seamless/Welded - 制造形式: 无缝/有缝

Equal Tees/等径三通 EN10253-2/A (1/2" ~ 48")

Nominal Size 公称尺寸		Outside Diameter at Bevel 接口处外径		Center to End 中心至端部	
NPS (inch)	DN (mm)	D		F	F
1/2	15	21.3	25	25	25
3/4	20	26.9	29	29	29
1	25	33.7	38	38	38
1 1/4	32	42.4	48	48	48
1 1/2	40	48.3	57	57	57
2	50	60.3	64	64	64
2 1/2	65	76.1	76	76	76
3	80	88.9	86	86	86
3 1/2	90	101.6	95	95	95
4	100	114.3	105	105	105
5	125	139.7	124	124	124
6	150	168.3	143	143	143
8	200	219.1	178	178	178
10	250	273	216	216	216
12	300	323.9	254	254	254
14	350	355.6	279	279	279
16	400	406.4	305	305	305
18	450	457	343	343	343
20	500	508	381	381	381
22	550	559	419	419	419
24	600	610	432	432	432
26	650	660	495	495	495
28	700	711	521	521	521
30	750	762	559	559	559
32	800	813	597	597	597
34	850	864	635	635	635
36	900	914	673	673	673
40	1000	1016	749	749	749
42	1050	1067	762 a	762 a	762 a
44	1100	1118	813 a	813 a	813 a
46	1150	1166	851 a	851 a	851 a
48	1200	1219	889 a	889 a	889 a

Note: 注:
a For these dimensions, the length of the outlet branch is not equal to the length of the run F.
The applicable values for the length of the outlet branch are respectively: 711 for DN 1100, 800 for DN 1150 and 838 for DN 1200.
a 对于这些尺寸, 出口分支的长度不等于主管长度 F。出口分支的长度分别取: DN 1100 为 711, DN 1150 为 800, DN 1200 为 838。
Manufacturing type: Seamless/Welded - 制造形式: 无缝/有缝

Equal Tees/Crosses 等径三通/四通 GB/T 12459 (1/2" ~ 60")

Nominal Size 公称尺寸		Outside Diameter at Bevel 坡口处外径		Center to End 中心至端部	
NPS (inch)	DN (mm)	D		Run 主管	Outlet 出口
				C	M
1/2	15	21.3	18	25	25
3/4	20	26.9	25	29	29
1	25	33.7	32	38	38
1 1/4	32	42.4	38	48	48
1 1/2	40	48.3	45	57	57
2	50	60.3	57	64	64
2 1/2	65	73	76	76	76
3	80	88.9	89	86	86
3 1/2	90	101.6	—	95	95
4	100	114.3	108	105	105
5	125	141.3	133	124	124
6	150	168.3	159	143	143
8	200	219.1	219	178	178
10	250	273	273	216	216
12	300	323.9	325	254	254
14	350	355.6	377	279	279
16	400	406.4	426	305	305
18	450	457	480	343	343
20	500	508	530	381	381
22	550	559	—	419	419
24	600	610	630	432	432
26	650	660	—	495	495
28	700	711	720	521	521
30	750	762	—	559	559
32	800	813	820	597	597
34	850	864	—	635	635
36	900	914	—	673	673
38	950	965	—	711	711
40	1000	1016	—	749	749
42	1050	1067	—	762	711
44	1100	1118	—	813	762
46	1150	1168	—	851	800
48	1200	1219	—	889	838
52	1300	1321	—	978	908
56	1400	1422	—	1054	978
60	1500	1524	—	1118	1054

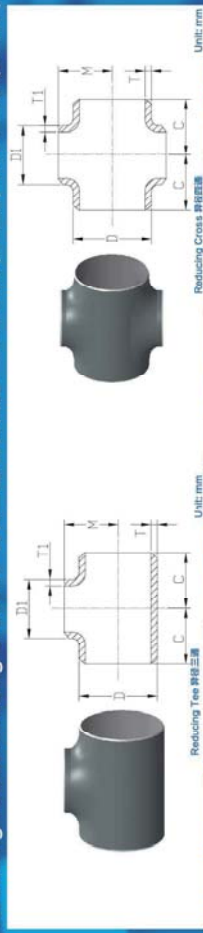
Note: 1. Manufacturing type: Seamless/Welded - 制造形式: 无缝/焊接 The Size of Crosses is up to DN1200 - 制造规格尺寸最大至DN1200

Equal Tees/Crosses 等径三通/四通 SH/T 3408 (1/2" ~ 64")

Nominal Size 公称尺寸		Outside Diameter at Bevel 坡口处外径		Center to End 中心至端部	
NPS (inch)	DN (mm)	D		Run 主管	Outlet 出口
				C	M
1/2	15	21.3	—	25	25
3/4	20	26.7	—	29	29
1	25	33.4	—	38	38
1 1/4	32	42.2	—	48	48
1 1/2	40	48.3	—	57	57
2	50	60.3	—	64	64
2 1/2	65	73	—	73	73
3	80	88.9	—	86	86
3 1/2	90	101.6	—	95	95
4	100	114.3	—	105	105
5	125	141.3	—	124	124
6	150	168.3	—	143	143
8	200	219.1	—	178	178
10	250	273.1	—	216	216
12	300	323.9	—	254	254
14	350	355.6	—	279	279
16	400	406.4	—	305	305
18	450	457	—	343	343
20	500	508	—	381	381
22	550	559	—	419	419
24	600	610	—	432	432
26	650	660	—	495	495
28	700	711	—	521	521
30	750	762	—	559	559
32	800	813	—	597	597
34	850	864	—	635	635
36	900	914	—	673	673
38	950	965	—	711	711
40	1000	1016	—	749	749
42	1050	1067	—	762	711
44	1100	1118	—	813	762
46	1150	1168	—	851	800
48	1200	1219	—	889	838
52	1300	1321	—	965	914
56	1400	1422	—	1042	965
60	1500	1524	—	1118	1016
64	1600	1626	—	1154	1092

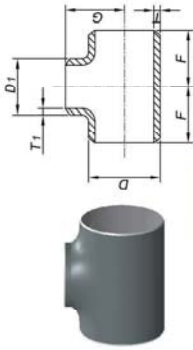
Note: 1. Manufacturing type: Seamless/Welded - 制造形式: 无缝/焊接 The Size of Crosses is up to DN1200 - 制造规格尺寸最大至DN1200

Reducing Tees/Reducing Crosses 异径三通/异径四通 ASME B16.9 (1/2" ~ 48") MSS SP-75 (16" ~ 60")

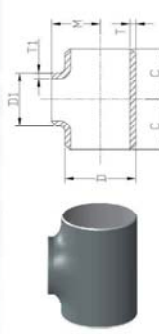


Reducing Tee 异径三通				Reducing Cross 异径四通			
Nominal Size 公称尺寸		Outside Diameter at Bevel 坡口处外径		Nominal Size 公称尺寸		Outside Diameter at Bevel 坡口处外径	
NPS (inch)	DN (mm)	Run 主管	Outlet 出口	NPS (inch)	DN (mm)	Run 主管	Outlet 出口
1/2" x 1/2" x 1/2"	15 x 15 x 15	21.3	17.3	16" x 16" x 16"	400 x 400 x 400	406.4	273
1/2" x 1/2" x 1/4"	15 x 15 x 10	21.3	13.7	16" x 16" x 16"	400 x 400 x 150	406.4	273
1/2" x 1/2" x 3/8"	15 x 15 x 15	26.7	21.3	18" x 18" x 18"	450 x 450 x 450	457	343
1/2" x 1/2" x 1/2"	20 x 20 x 20	33.4	26.7	18" x 18" x 18"	450 x 450 x 150	457	343
1/2" x 1/2" x 3/8"	25 x 25 x 15	42.2	33.4	18" x 18" x 18"	450 x 450 x 300	457	343
1/2" x 1/2" x 1/2"	32 x 32 x 20	48.3	39.1	18" x 18" x 18"	450 x 450 x 450	457	343
1/2" x 1/2" x 1/2"	40 x 40 x 25	57	45.7	20" x 20" x 20"	500 x 500 x 500	508	381
1/2" x 1/2" x 1/2"	50 x 50 x 30	64	52.1	20" x 20" x 20"	500 x 500 x 300	508	381
1/2" x 1/2" x 1/2"	60 x 60 x 40	73	60.3	20" x 20" x 20"	500 x 500 x 450	508	381
1/2" x 1/2" x 1/2"	75 x 75 x 50	88.3	71.1	20" x 20" x 20"	500 x 500 x 600	508	381
1/2" x 1/2" x 1/2"	90 x 90 x 60	101.6	82.5	20" x 20" x 20"	500 x 500 x 750	508	381
1/2" x 1/2" x 1/2"	105 x 105 x 75	114.3	95.0	20" x 20" x 20"	500 x 500 x 900	508	381
1/2" x 1/2" x 1/2"	120 x 120 x 90	127.0	107.6	20" x 20" x 20"	500 x 500 x 1050	508	381
1/2" x 1/2" x 1/2"	135 x 135 x 105	140.0	119.1	20" x 20" x 20"	500 x 500 x 1200	508	381
1/2" x 1/2" x 1/2"	150 x 150 x 120	152.4	131.6	20" x 20" x 20"	500 x 500 x 1350	508	381
1/2" x 1/2" x 1/2"	165 x 165 x 135	165.1	144.1	20" x 20" x 20"	500 x 500 x 1500	508	381
1/2" x 1/2" x 1/2"	180 x 180 x 150	177.8	156.6	20" x 20" x 20"	500 x 500 x 1650	508	381
1/2" x 1/2" x 1/2"	195 x 195 x 165	190.5	169.1	20" x 20" x 20"	500 x 500 x 1800	508	381
1/2" x 1/2" x 1/2"	210 x 210 x 180	203.2	181.6	20" x 20" x 20"	500 x 500 x 1950	508	381
1/2" x 1/2" x 1/2"	225 x 225 x 200	215.9	194.1	20" x 20" x 20"	500 x 500 x 2100	508	381
1/2" x 1/2" x 1/2"	240 x 240 x 210	228.6	206.6	20" x 20" x 20"	500 x 500 x 2250	508	381
1/2" x 1/2" x 1/2"	255 x 255 x 225	241.3	219.1	20" x 20" x 20"	500 x 500 x 2400	508	381
1/2" x 1/2" x 1/2"	270 x 270 x 240	254.0	231.6	20" x 20" x 20"	500 x 500 x 2550	508	381
1/2" x 1/2" x 1/2"	285 x 285 x 255	266.7	244.1	20" x 20" x 20"	500 x 500 x 2700	508	381
1/2" x 1/2" x 1/2"	300 x 300 x 270	279.4	256.6	20" x 20" x 20"	500 x 500 x 2850	508	381
1/2" x 1/2" x 1/2"	315 x 315 x 285	292.1	269.1	20" x 20" x 20"	500 x 500 x 3000	508	381
1/2" x 1/2" x 1/2"	330 x 330 x 300	304.8	281.6	20" x 20" x 20"	500 x 500 x 3150	508	381
1/2" x 1/2" x 1/2"	345 x 345 x 315	317.5	294.1	20" x 20" x 20"	500 x 500 x 3300	508	381
1/2" x 1/2" x 1/2"	360 x 360 x 330	330.2	306.6	20" x 20" x 20"	500 x 500 x 3450	508	381
1/2" x 1/2" x 1/2"	375 x 375 x 345	342.9	319.1	20" x 20" x 20"	500 x 500 x 3600	508	381
1/2" x 1/2" x 1/2"	390 x 390 x 360	355.6	331.6	20" x 20" x 20"	500 x 500 x 3750	508	381
1/2" x 1/2" x 1/2"	405 x 405 x 375	368.3	344.1	20" x 20" x 20"	500 x 500 x 3900	508	381
1/2" x 1/2" x 1/2"	420 x 420 x 390	381.0	356.6	20" x 20" x 20"	500 x 500 x 4050	508	381
1/2" x 1/2" x 1/2"	435 x 435 x 405	393.7	369.1	20" x 20" x 20"	500 x 500 x 4200	508	381
1/2" x 1/2" x 1/2"	450 x 450 x 420	406.4	381.6	20" x 20" x 20"	500 x 500 x 4350	508	381
1/2" x 1/2" x 1/2"	465 x 465 x 435	419.1	394.1	20" x 20" x 20"	500 x 500 x 4500	508	381
1/2" x 1/2" x 1/2"	480 x 480 x 450	431.8	406.6	20" x 20" x 20"	500 x 500 x 4650	508	381
1/2" x 1/2" x 1/2"	495 x 495 x 465	444.5	419.1	20" x 20" x 20"	500 x 500 x 4800	508	381
1/2" x 1/2" x 1/2"	510 x 510 x 480	457.2	431.6	20" x 20" x 20"	500 x 500 x 4950	508	381
1/2" x 1/2" x 1/2"	525 x 525 x 495	469.9	444.1	20" x 20" x 20"	500 x 500 x 5100	508	381
1/2" x 1/2" x 1/2"	540 x 540 x 510	482.6	456.6	20" x 20" x 20"	500 x 500 x 5250	508	381
1/2" x 1/2" x 1/2"	555 x 555 x 525	495.3	469.1	20" x 20" x 20"	500 x 500 x 5400	508	381
1/2" x 1/2" x 1/2"	570 x 570 x 540	508.0	481.6	20" x 20" x 20"	500 x 500 x 5550	508	381
1/2" x 1/2" x 1/2"	585 x 585 x 555	520.7	494.1	20" x 20" x 20"	500 x 500 x 5700	508	381
1/2" x 1/2" x 1/2"	600 x 600 x 570	533.4	506.6	20" x 20" x 20"	500 x 500 x 5850	508	381
1/2" x 1/2" x 1/2"	615 x 615 x 585	546.1	519.1	20" x 20" x 20"	500 x 500 x 6000	508	381
1/2" x 1/2" x 1/2"	630 x 630 x 600	558.8	531.6	20" x 20" x 20"	500 x 500 x 6150	508	381
1/2" x 1/2" x 1/2"	645 x 645 x 615	571.5	544.1	20" x 20" x 20"	500 x 500 x 6300	508	381
1/2" x 1/2" x 1/2"	660 x 660 x 630	584.2	556.6	20" x 20" x 20"	500 x 500 x 6450	508	381
1/2" x 1/2" x 1/2"	675 x 675 x 645	596.9	569.1	20" x 20" x 20"	500 x 500 x 6600	508	381
1/2" x 1/2" x 1/2"	690 x 690 x 660	609.6	581.6	20" x 20" x 20"	500 x 500 x 6750	508	381
1/2" x 1/2" x 1/2"	705 x 705 x 675	622.3	594.1	20" x 20" x 20"	500 x 500 x 6900	508	381
1/2" x 1/2" x 1/2"	720 x 720 x 690	635.0	606.6	20" x 20" x 20"	500 x 500 x 7050	508	381
1/2" x 1/2" x 1/2"	735 x 735 x 705	647.7	619.1	20" x 20" x 20"	500 x 500 x 7200	508	381
1/2" x 1/2" x 1/2"	750 x 750 x 720	660.4	631.6	20" x 20" x 20"	500 x 500 x 7350	508	381
1/2" x 1/2" x 1/2"	765 x 765 x 735	673.1	644.1	20" x 20" x 20"	500 x 500 x 7500	508	381
1/2" x 1/2" x 1/2"	780 x 780 x 750	685.8	656.6	20" x 20" x 20"	500 x 500 x 7650	508	381
1/2" x 1/2" x 1/2"	795 x 795 x 765	698.5	669.1	20" x 20" x 20"	500 x 500 x 7800	508	381
1/2" x 1/2" x 1/2"	810 x 810 x 780	711.2	681.6	20" x 20" x 20"	500 x 500 x 7950	508	381
1/2" x 1/2" x 1/2"	825 x 825 x 795	723.9	694.1	20" x 20" x 20"	500 x 500 x 8100	508	381
1/2" x 1/2" x 1/2"	840 x 840 x 810	736.6	706.6	20" x 20" x 20"	500 x 500 x 8250	508	381
1/2" x 1/2" x 1/2"	855 x 855 x 825	749.3	719.1	20" x 20" x 20"	500 x 500 x 8400	508	381
1/2" x 1/2" x 1/2"	870 x 870 x 840	762.0	731.6	20" x 20" x 20"	500 x 500 x 8550	508	381
1/2" x 1/2" x 1/2"	885 x 885 x 855	774.7	744.1	20" x 20" x 20"	500 x 500 x 8700	508	381
1/2" x 1/2" x 1/2"	900 x 900 x 870	787.4	756.6	20" x 20" x 20"	500 x 500 x 8850	508	381
1/2" x 1/2" x 1/2"	915 x 915 x 885	800.1	769.1	20" x 20" x 20"	500 x 500 x 9000	508	381
1/2" x 1/2" x 1/2"	930 x 930 x 900	812.8	781.6	20" x 20" x 20"	500 x 500 x 9150	508	381
1/2" x 1/2" x 1/2"	945 x 945 x 915	825.5	794.1	20" x 20" x 20"	500 x 500 x 9300	508	381
1/2" x 1/2" x 1/2"	960 x 960 x 930	838.2	806.6	20" x 20" x 20"	500 x 500 x 9450	508	381
1/2" x 1/2" x 1/2"	975 x 975 x 945	850.9	819.1	20" x 20" x 20"	500 x 500 x 9600	508	381
1/2" x 1/2" x 1/2"	990 x 990 x 960	863.6	831.6	20" x 20" x 20"	500 x 500 x 9750	508	381
1/2" x 1/2" x 1/2"	1005 x 1005 x 975	876.3	844.1	20" x 20" x 20"	500 x 500 x 9900	508	381
1/2" x 1/2" x 1/2"	1020 x 1020 x 990	889.0	856.6	20" x 20" x 20"	500 x 500 x 10050	508	381
1/2" x 1/2" x 1/2"	1035 x 1035 x 1005	901.7	869.1	20" x 20" x 20"	500 x 500 x 10200	508	381
1/2" x 1/2" x 1/2"	1050 x 1050 x 1020	914.4	881.6	20" x 20" x 20"	500 x 500 x 10350	508	381
1/2" x 1/2" x 1/2"	1065 x 1065 x 1035	927.1	894.1	20" x 20" x 20"	500 x 500 x 10500	508	381
1/2" x 1/2" x 1/2"	1080 x 1080 x 1050	939.8	906.6	20" x 20" x 20"	500 x 500 x 10650	508	381
1/2" x 1/2" x 1/2"	1095 x 1095 x 1065	952.5	919.1	20" x 20" x 20"	500 x 500 x 10800	508	381
1/2" x 1/2" x 1/2"	1110 x 1110 x 1080	965.2	931.6	20" x 20" x 20"	500 x 500 x 10950	508	381
1/2" x 1/2" x 1/2"	1125 x 1125 x 1095	977.9	944.1	20" x 20" x 20"	500 x 500 x 11100	508	381
1/2" x 1/2" x 1/2"	1140 x 1140 x 1110	990.6	956.6	20" x 20" x 20"	500 x 500 x 11250	508	381
1/2" x 1/2" x 1/2"	1155 x 1155 x 1125	1003.3	969.1	20" x 20" x 20"	500 x 500 x 11400	508	381
1/2" x 1/2" x 1/2"	1170 x 1170 x 1140	1016.0	981.6	20" x 20" x 20"	500 x 500 x 11550	508	381
1/2" x 1/2" x 1/2"	1185 x 1185 x 1155	1028.7	994.1	20" x 20" x 20"	500 x 500 x 11700	508	381
1/2" x 1/2" x 1/2"	1200 x 1200 x 1170	1041.4	1006.6	20" x 20" x 20"	500 x 500 x 11850	508	381
1/2" x 1/2" x 1/2"	1215 x 1215 x 1185	1054.1	1019.1	20" x 20" x 20"	500 x 500 x 12000	508	381
1/2" x 1/2" x 1/2"	1230 x 1230 x 1200	1066.8	1031.6	20" x 20" x 20"	500 x 500 x 12150	508	381
1/2" x 1/2" x 1/2"	1245 x 1245 x 1215	1079.5	1044.1	20" x 20" x 20"	500 x 500 x 12300	508	381
1/2" x 1/2" x 1/2"	1260 x 1260 x 1230	1092.2	1056.6	20" x 20" x 20"	500 x 500 x 12450	508	381
1/2" x 1/2" x 1/2"	1275 x 1275 x 1245	1104.9	1069.1	20" x 20" x 20"	500 x 500 x 12600	508	381
1/2" x 1/2" x 1/2"	1290 x 1290 x 1260	1117.6	1081.6	20" x 20" x 20"	500 x 500 x 12750	508	381
1/2" x 1/2" x 1/2"	1305 x 1305 x 1275	1130.3	1094.1	20" x 20" x 20"	500 x 500 x 12900	508	381
1/2" x 1/2" x 1/2"	1320 x 1320 x 1290	1143.0	1106.6	20" x 20" x 20"	500 x 500 x 13050	508	381
1/2" x 1/2" x 1/2"	1335 x 1335 x 1305	1155.7	1119.1	20" x 20" x 20"	500 x 500 x 13200	508	381
1/2" x 1/2" x 1/2"	1350 x 1350 x 1320	1168.4	1131.6	20" x 20" x 20"	500 x 500 x 13350	508	381
1/2" x 1/2" x 1/2"	1365 x 1365 x 1335	1181.1	1144.1	20" x 20" x 20"	500 x 500 x 13500	508	381
1/2" x 1/2" x 1/2"	1380 x 1380 x 1350	1193.8	1156.6	20" x 20" x 20"	500 x 500 x 13650	508	381
1/2" x 1/2" x 1/2"	1395 x 1395 x 1365	1206.5	1169.1	20" x 20" x 20"	500 x 500 x 13800	508	381
1/2" x 1/2" x 1/2"	1410 x 1410 x 1380	1219.2	1181.6	20" x 20" x 20"	500 x 500 x 13950	508	381
1/2" x 1/2" x 1/2"	1425 x 1425 x 1395	1231.9	1194.1	20" x 20" x 20"	500 x 500 x 14100	508	381
1/2" x 1/2" x 1/2"	1440 x 1440 x 1410	1244.6	1206.6	20" x 20" x 20"	500 x 500 x 14250	508	381
1/2" x 1/2" x 1/2"	1455 x 1455 x 1425	1257.3	1219.				

Reducing Tees 异径三通 EN10253-2/A (1 1/2" ~ 48")



Nominal Size 公称尺寸		Outside Diameter at Bevel 接口处外径		Center to End 中心至端部		Nominal Size 公称尺寸		Outside Diameter at Bevel 接口处外径		Center to End 中心至端部	
NPS (inch)	DN (mm)	Run 主管 D	Outlet 出口 D1	Run 主管 F	Outlet 出口 G	NPS (inch)	DN (mm)	Run 主管 D	Outlet 出口 D1	Run 主管 F	Outlet 出口 G
1/2" x 1/2"	20 x 15	26.9	21.3	29	25	18" x 12"	450 x 300	457	323.9	343	321
1" x 1/2"	25 x 15	33.7	26.9	36	36	18" x 14"	450 x 350	457	323.9	343	330
1" x 1"	25 x 20	33.7	26.9	36	36	18" x 16"	450 x 400	457	323.9	343	330
1 1/2" x 1/2"	32 x 15	42.4	26.9	48	48	20" x 10"	500 x 250	508	323.9	381	333
1 1/2" x 1"	32 x 20	42.4	26.9	48	48	20" x 12"	500 x 300	508	323.9	381	346
1 1/2" x 1 1/2"	32 x 25	42.4	26.9	48	48	20" x 16"	500 x 400	508	323.9	381	356
1 1/2" x 2"	40 x 20	48.3	26.9	57	57	22" x 12"	550 x 250	559	323.9	419	371
1 1/2" x 2 1/2"	40 x 25	48.3	26.9	57	57	22" x 16"	550 x 300	559	323.9	419	381
1 1/2" x 3"	40 x 32	48.3	26.9	57	57	22" x 20"	550 x 400	559	323.9	419	406
2" x 1/2"	50 x 20	60.3	26.9	64	64	24" x 10"	600 x 250	610	323.9	432	384
2" x 1"	50 x 25	60.3	26.9	64	64	24" x 12"	600 x 300	610	323.9	432	397
2" x 1 1/2"	50 x 32	60.3	26.9	64	64	24" x 16"	600 x 400	610	323.9	432	406
2 1/2" x 1/2"	65 x 20	76.1	26.9	76	76	26" x 10"	650 x 250	660	323.9	464	422
2 1/2" x 1"	65 x 25	76.1	26.9	76	76	26" x 12"	650 x 300	660	323.9	464	432
2 1/2" x 1 1/2"	65 x 32	76.1	26.9	76	76	26" x 16"	650 x 400	660	323.9	464	457
2 1/2" x 2"	65 x 40	76.1	26.9	76	76	28" x 12"	700 x 250	711	323.9	483	442
2 1/2" x 2 1/2"	65 x 48	76.1	26.9	76	76	28" x 16"	700 x 300	711	323.9	483	457
3" x 1/2"	80 x 20	88.9	26.9	86	86	28" x 18"	700 x 400	711	323.9	483	470
3" x 1"	80 x 25	88.9	26.9	86	86	30" x 10"	750 x 250	762	323.9	508	464
3" x 1 1/2"	80 x 32	88.9	26.9	86	86	30" x 12"	750 x 300	762	323.9	508	470
3" x 2"	80 x 40	88.9	26.9	86	86	30" x 16"	750 x 400	762	323.9	508	483
4" x 1/2"	100 x 20	114.3	26.9	105	105	32" x 10"	800 x 250	813	323.9	521	483
4" x 1"	100 x 25	114.3	26.9	105	105	32" x 12"	800 x 300	813	323.9	521	483
4" x 1 1/2"	100 x 32	114.3	26.9	105	105	32" x 16"	800 x 400	813	323.9	521	483
4" x 2"	100 x 40	114.3	26.9	105	105	34" x 10"	850 x 250	864	323.9	540	483
4" x 2 1/2"	100 x 48	114.3	26.9	105	105	34" x 12"	850 x 300	864	323.9	540	483
4" x 3"	100 x 56	114.3	26.9	105	105	34" x 16"	850 x 400	864	323.9	540	483
5" x 1/2"	125 x 20	139.7	26.9	124	124	36" x 10"	900 x 250	914	323.9	568	483
5" x 1"	125 x 25	139.7	26.9	124	124	36" x 12"	900 x 300	914	323.9	568	483
5" x 1 1/2"	125 x 32	139.7	26.9	124	124	36" x 16"	900 x 400	914	323.9	568	483
5" x 2"	125 x 40	139.7	26.9	124	124	36" x 20"	900 x 500	914	323.9	568	483
5" x 2 1/2"	125 x 48	139.7	26.9	124	124	36" x 24"	900 x 600	914	323.9	568	483
5" x 3"	125 x 56	139.7	26.9	124	124	36" x 28"	900 x 700	914	323.9	568	483
5" x 3 1/2"	125 x 64	139.7	26.9	124	124	36" x 32"	900 x 800	914	323.9	568	483
5" x 4"	125 x 72	139.7	26.9	124	124	36" x 36"	900 x 900	914	323.9	568	483
5" x 4 1/2"	125 x 80	139.7	26.9	124	124	36" x 40"	900 x 1000	914	323.9	568	483
5" x 5"	125 x 88	139.7	26.9	124	124	36" x 44"	900 x 1100	914	323.9	568	483
5" x 5 1/2"	125 x 96	139.7	26.9	124	124	36" x 48"	900 x 1200	914	323.9	568	483
5" x 6"	125 x 104	139.7	26.9	124	124	36" x 52"	900 x 1300	914	323.9	568	483
5" x 6 1/2"	125 x 112	139.7	26.9	124	124	36" x 56"	900 x 1400	914	323.9	568	483
5" x 7"	125 x 120	139.7	26.9	124	124	36" x 60"	900 x 1500	914	323.9	568	483
5" x 7 1/2"	125 x 128	139.7	26.9	124	124	36" x 64"	900 x 1600	914	323.9	568	483
5" x 8"	125 x 136	139.7	26.9	124	124	36" x 68"	900 x 1700	914	323.9	568	483
5" x 8 1/2"	125 x 144	139.7	26.9	124	124	36" x 72"	900 x 1800	914	323.9	568	483
5" x 9"	125 x 152	139.7	26.9	124	124	36" x 76"	900 x 1900	914	323.9	568	483
5" x 9 1/2"	125 x 160	139.7	26.9	124	124	36" x 80"	900 x 2000	914	323.9	568	483
5" x 10"	125 x 168	139.7	26.9	124	124	36" x 84"	900 x 2100	914	323.9	568	483
5" x 10 1/2"	125 x 176	139.7	26.9	124	124	36" x 88"	900 x 2200	914	323.9	568	483
5" x 11"	125 x 184	139.7	26.9	124	124	36" x 92"	900 x 2300	914	323.9	568	483
5" x 11 1/2"	125 x 192	139.7	26.9	124	124	36" x 96"	900 x 2400	914	323.9	568	483
5" x 12"	125 x 200	139.7	26.9	124	124	36" x 100"	900 x 2500	914	323.9	568	483
5" x 12 1/2"	125 x 208	139.7	26.9	124	124	36" x 104"	900 x 2600	914	323.9	568	483
5" x 13"	125 x 216	139.7	26.9	124	124	36" x 108"	900 x 2700	914	323.9	568	483
5" x 13 1/2"	125 x 224	139.7	26.9	124	124	36" x 112"	900 x 2800	914	323.9	568	483
5" x 14"	125 x 232	139.7	26.9	124	124	36" x 116"	900 x 2900	914	323.9	568	483
5" x 14 1/2"	125 x 240	139.7	26.9	124	124	36" x 120"	900 x 3000	914	323.9	568	483
5" x 15"	125 x 248	139.7	26.9	124	124	36" x 124"	900 x 3100	914	323.9	568	483
5" x 15 1/2"	125 x 256	139.7	26.9	124	124	36" x 128"	900 x 3200	914	323.9	568	483
5" x 16"	125 x 264	139.7	26.9	124	124	36" x 132"	900 x 3300	914	323.9	568	483
5" x 16 1/2"	125 x 272	139.7	26.9	124	124	36" x 136"	900 x 3400	914	323.9	568	483
5" x 17"	125 x 280	139.7	26.9	124	124	36" x 140"	900 x 3500	914	323.9	568	483
5" x 17 1/2"	125 x 288	139.7	26.9	124	124	36" x 144"	900 x 3600	914	323.9	568	483
5" x 18"	125 x 296	139.7	26.9	124	124	36" x 148"	900 x 3700	914	323.9	568	483
5" x 18 1/2"	125 x 304	139.7	26.9	124	124	36" x 152"	900 x 3800	914	323.9	568	483
5" x 19"	125 x 312	139.7	26.9	124	124	36" x 156"	900 x 3900	914	323.9	568	483
5" x 19 1/2"	125 x 320	139.7	26.9	124	124	36" x 160"	900 x 4000	914	323.9	568	483
5" x 20"	125 x 328	139.7	26.9	124	124	36" x 164"	900 x 4100	914	323.9	568	483
5" x 20 1/2"	125 x 336	139.7	26.9	124	124	36" x 168"	900 x 4200	914	323.9	568	483
5" x 21"	125 x 344	139.7	26.9	124	124	36" x 172"	900 x 4300	914	323.9	568	483
5" x 21 1/2"	125 x 352	139.7	26.9	124	124	36" x 176"	900 x 4400	914	323.9	568	483
5" x 22"	125 x 360	139.7	26.9	124	124	36" x 180"	900 x 4500	914	323.9	568	483
5" x 22 1/2"	125 x 368	139.7	26.9	124	124	36" x 184"	900 x 4600	914	323.9	568	483
5" x 23"	125 x 376	139.7	26.9	124	124	36" x 188"	900 x 4700	914	323.9	568	483
5" x 23 1/2"	125 x 384	139.7	26.9	124	124	36" x 192"	900 x 4800	914	323.9	568	483
5" x 24"	125 x 392	139.7	26.9	124	124	36" x 196"	900 x 4900	914	323.9	568	483
5" x 24 1/2"	125 x 400	139.7	26.9	124	124	36" x 200"	900 x 5000	914	323.9	568	483
5" x 25"	125 x 408	139.7	26.9	124	124	36" x 204"	900 x 5100	914	323.9	568	483
5" x 25 1/2"	125 x 416	139.7	26.9	124	124	36" x 208"	900 x 5200	914	323.9	568	483
5" x 26"	125 x 424	139.7	26.9	124	124	36" x 212"	900 x 5300	914	323.9	568	483
5" x 26 1/2"	125 x 432	139.7	26.9	124	124	36" x 216"	900 x 5400	914	323.9	568	483
5" x 27"	125 x 440	139.7	26.9	124	124	36" x 220"	900 x 5500	914	323.9	568	483
5" x 27 1/2"	125 x 448	139.7	26.9	124	124	36" x 224"	900 x 5600	914	323.9	568	483
5" x 28"	125 x 456	139.7	26.9	124	124	36" x 228"	900 x 5700	914	323.9	568	483
5" x 28 1/2"	125 x 464	139.7	26.9	124	124	36" x 232"	900 x 5800	914	323.9	568	483
5" x 29"	125 x 472	139.7	26.9	124	124	36" x 236"	900 x 5900	914	323.9	568	483
5" x 29 1/2"	125 x 480	139.7	26.9	124	124	36" x 240"	900 x 6000	914	323.9	568	483
5" x 30"	125 x 488	139.7	26.9	124	124	36" x 244"	900 x 6100	914	323.9	568	483
5" x 30 1/2"	125 x 496	139.7	26.9	124	124	36" x 248"	900 x 6200	914	323.9	568	483
5" x 31"	125 x 504	139.7	26.9	124	124	36" x 252"	900 x 6300	914	323.9	568	483
5" x 31 1/2"	125 x 512	139.7	26.9	124	124	36" x 256"	900 x 6400	914	323.9	568	483
5" x 32"	125 x 520	139.7	26.9	124	124	36" x 260"	900 x 6500	914	323.9	568	483
5" x 32 1/2"	125 x 528	139.7	26.9	124	124	36" x 264"	900 x 6600	914	323.9	568	483
5" x 33"	125 x 536	139.7	26.9	124	124	36" x 268"	900 x 6700	914	323.9	568	483
5" x 33 1/2"	125 x 544	139.7	26.9	124	124	36" x 272"	900 x 6800	914	323.9	568	483
5" x 34"	125 x 552	139.7	26.9	124	124	36" x 276"	900 x 6900	914	323.9	568	483
5" x											

[illegible]

Unit in: 公称尺寸

Reducing Tee 斜接三通

Center to End
中心至端部

Outside Diameter at Bevel
接口处外径

Run
主管

Outlet
出口

DN
(mm)

NPS
(inch)

Unit in: 公称尺寸

Reducing Cross 斜接四通

Center to End
中心至端部

Outside Diameter at Bevel
接口处外径

Run
主管

Outlet
出口

DN
(mm)

NPS
(inch)

1/4" x 1/4" = 1/4"	20 x 20 x 15	26.7	21.3	29				16 x 16 x 6	400 x 400 x 200	406.4	218.1	168.3	305							
1" x 1" x 1/2"	25 x 25 x 20	33.4	26.7	38																
1" x 1" x 1/2"	25 x 25 x 15		21.3																	
1 1/4" x 1 1/4" = 1"	32 x 32 x 25		33.4																	
1 1/4" x 1 1/4" = 3/4"	32 x 32 x 20	42.2	26.7	48																
1 1/4" x 1 1/4" = 1/2"	32 x 32 x 15		21.3																	
1 1/4" x 1 1/4" = 1/4"	40 x 40 x 32		42.2																	
1 1/2" x 1 1/2" = 1"	40 x 40 x 25	48.3	33.4	57																
1 1/2" x 1 1/2" = 3/4"	40 x 40 x 20		26.7																	
1 1/2" x 1 1/2" = 1/2"	40 x 40 x 15		21.3																	
2" x 2" = 1 1/2"	50 x 50 x 40		48.3																	
2" x 2" = 1 1/4"	50 x 50 x 32	60.3	42.2	64																
2" x 2" = 1"	50 x 50 x 25		33.4	51																
2" x 2" = 3/4"	50 x 50 x 20	26.7	26.7	40																
2 1/2" x 2 1/2" = 2"	65 x 65 x 50		60.3	74																
2 1/2" x 2 1/2" = 1 1/2"	65 x 65 x 40	73	48.3	67																
2 1/2" x 2 1/2" = 1 1/4"	65 x 65 x 32		42.2																	
2 1/2" x 2 1/2" = 1"	65 x 65 x 25	33.4	33.4	57																
3" x 3" = 2 1/2"	80 x 80 x 65		73	83																
3" x 3" = 2"	80 x 80 x 50	88.9	60.3	73																
3" x 3" = 1 1/2"	80 x 80 x 40		48.3																	
3" x 3" = 1"	80 x 80 x 32	42.2		70																
4" x 4" = 3"	100 x 100 x 80		88.9																	
4" x 4" = 2 1/2"	100 x 100 x 65	114.3	73	95																
4" x 4" = 2"	100 x 100 x 50		60.3																	
4" x 4" = 1 1/2"	100 x 100 x 40		48.3	86																
5" x 5" = 4"	125 x 125 x 100		114.3	117																
5" x 5" = 3 1/2"	125 x 125 x 80	141.3	88.9	108																
5" x 5" = 3"	125 x 125 x 65		73																	
5" x 5" = 2 1/2"	125 x 125 x 50		60.3	105																
6" x 6" = 5"	150 x 150 x 125		141.3	137																
6" x 6" = 4 1/2"	150 x 150 x 100		114.3	130																
6" x 6" = 4"	150 x 150 x 80	168.3	88.9	124																
6" x 6" = 3 1/2"	150 x 150 x 65		73	121																
6" x 6" = 3"	150 x 150 x 50		60.3	121																
8" x 8" = 6"	200 x 200 x 150		168.3	168																
8" x 8" = 5"	200 x 200 x 125		141.3	162																
8" x 8" = 4"	200 x 200 x 100	219.1	114.3	155																
10" x 10" = 8"	250 x 250 x 200		203	219.1																
10" x 10" = 6"	250 x 250 x 150		168.3	194																
10" x 10" = 5"	250 x 250 x 125	273	141.3	191																
10" x 10" = 4"	250 x 250 x 100		114.3	184																
12" x 12" = 10"	300 x 300 x 250		273	241																
12" x 12" = 8"	300 x 300 x 200	323.8	219.1	229																
12" x 12" = 6"	300 x 300 x 150		168.3	219																
12" x 12" = 5"	300 x 300 x 125		141.3	216																
14" x 14" = 12"	350 x 350 x 300		323.8	270																
14" x 14" = 10"	350 x 350 x 250		273	257																
14" x 14" = 8"	350 x 350 x 200	355.6	219.1	238																
16" x 16" = 14"	400 x 400 x 350		355.6	283																
16" x 16" = 12"	400 x 400 x 300		323.8	305																
16" x 16" = 10"	400 x 400 x 250	406.4	273	305																
18" x 18" = 16"	450 x 450 x 250		406.4	283																

Unit in: 公称尺寸

Reducing Tee 斜接三通

Center to End
中心至端部

Outside Diameter at Bevel
接口处外径

Run
主管

Outlet
出口

DN
(mm)

NPS
(inch)

Unit in: 公称尺寸

Reducing Cross 斜接四通

Center to End
中心至端部

Outside Diameter at Bevel
接口处外径

Run
主管

Outlet
出口

DN
(mm)

NPS
(inch)

1/4" x 1/4" = 1/4"	20 x 20 x 15	26.7	21.3	29				16 x 16 x 6	400 x 400 x 200	406.4	218.1	168.3	305							
1" x 1" x 1/2"	25 x 25 x 20	33.4	26.7	38																
1" x 1" x 1/2"	25 x 25 x 15		21.3																	
1 1/4" x 1 1/4" = 1"	32 x 32 x 25		33.4																	
1 1/4" x 1 1/4" = 3/4"	32 x 32 x 20	42.2	26.7	48																
1 1/4" x 1 1/4" = 1/2"	32 x 32 x 15		21.3																	
1 1/4" x 1 1/4" = 1/4"	40 x 40 x 32		42.2																	
1 1/2" x 1 1/2" = 1"	40 x 40 x 25	48.3	33.4	57																
1 1/2" x 1 1/2" = 3/4"	40 x 40 x 20		26.7																	
1 1/2" x 1 1/2" = 1/2"	40 x 40 x 15		21.3																	
2" x 2" = 1 1/2"	50 x 50 x 40		48.3																	
2" x 2" = 1 1/4"	50 x 50 x 32	60.3	42.2	64																
2" x 2" = 1"	50 x 50 x 25		33.4	51																
2" x 2" = 3/4"	50 x 50 x 20	26.7	26.7	40																
2 1/2" x 2 1/2" = 2"	65 x 65 x 50		60.3	74																
2 1/2" x 2 1/2" = 1 1/2"	65 x 65 x 40	73	48.3	67																
2 1/2" x 2 1/2" = 1 1/4"	65 x 65 x 32		42.2																	
2 1/2" x 2 1/2" = 1"	65 x 65 x 25	33.4	33.4	57																
3" x 3" = 2 1/2"	80 x 80 x 65		73	83																
3" x 3" = 2"	80 x 80 x 50	88.9	60.3	73																
3" x 3" = 1 1/2"	80 x 80 x 40		48.3																	
3" x 3" = 1"	80 x 80 x 32	42.2		70																
4" x 4" = 3"	100 x 100 x 80		88.9																	
4" x 4" = 2 1/2"	100 x 100 x 65	114.3	73	95																
4" x 4" = 2"	100 x 100 x 50		60.3																	
4" x 4" = 1 1/2"	100 x 100 x 40		48.3	86																
5" x 5" = 4"	125 x 125 x 100		114.3	117																
5" x 5" = 3 1/2"	125 x 125 x 80	141.3	88.9	108																
5" x 5" = 3"	125 x 125 x 65		73																	
5" x 5" = 2 1/2"	125 x 125 x 50		60.3	105																
6" x 6" = 5"	150 x 150 x 125		141.3	137																
6" x 6" = 4 1/2"	150 x 150 x 100		114.3	130																
6" x 6" = 4"	150 x 150 x 80	168.3	88.9	124																
6" x 6" = 3 1/2"	150 x 150 x 65		73	121																
6" x 6" = 3"	150 x 150 x 50		60.3	121																
8" x 8" = 6"	200 x 200 x 150		168.3	168																
8" x 8" = 5"	200 x 200 x 125		141.3	162																
8" x 8" = 4"	200 x 200 x 100	219.1	114.3	155																
10" x 10" = 8"	250 x 250 x 200		203	219.1																
10" x 10" = 6"	250 x 250 x 150		168.3	194																
10" x 10" = 5"	250 x 250 x 125	273	141.3	191																
10" x 10" = 4"	250 x 250 x 100		114.3	184																
12" x 12" = 10"	300 x 300 x 250		273	241																
12" x 12" = 8"	300 x 300																			



Reducing Tee 異徑三通				Unit: mm			
Nominal Size 公稱尺寸		Center to End 中心至端部		Outside Diameter at Bevel 坡口外徑		Center to End 中心至端部	
NPS (inch)	DN (mm)	Run 主管	Outlet 出口	Run 主管	Outlet 出口	Run 主管	Outlet 出口
32 × 32 × 28	800 × 800 × 700	711	660	813	762	711	660
32 × 32 × 26	800 × 800 × 650	572	522	762	711	572	522
32 × 32 × 24	800 × 800 × 600	559	509	711	660	559	509
32 × 32 × 22	800 × 800 × 550	546	496	660	610	546	496
32 × 32 × 20	800 × 800 × 500	533	483	610	560	533	483
32 × 32 × 18	800 × 800 × 450	521	471	560	510	521	471
32 × 32 × 16	800 × 800 × 400	508	458	510	460	508	458
32 × 32 × 14	800 × 800 × 350	496	446	460	410	496	446
34 × 34 × 32	850 × 850 × 800	813	762	1016	965	813	762
34 × 34 × 30	850 × 850 × 750	762	711	965	914	762	711
34 × 34 × 28	850 × 850 × 700	711	660	914	864	711	660
34 × 34 × 26	850 × 850 × 650	660	610	864	813	660	610
34 × 34 × 24	850 × 850 × 600	610	560	813	762	610	560
34 × 34 × 22	850 × 850 × 550	559	509	762	711	559	509
34 × 34 × 20	850 × 850 × 500	546	496	711	660	546	496
34 × 34 × 18	850 × 850 × 450	533	483	660	610	533	483
34 × 34 × 16	850 × 850 × 400	521	471	610	560	521	471
36 × 36 × 32	900 × 900 × 800	813	762	1016	965	813	762
36 × 36 × 30	900 × 900 × 750	762	711	965	914	762	711
36 × 36 × 28	900 × 900 × 700	711	660	914	864	711	660
36 × 36 × 26	900 × 900 × 650	660	610	864	813	660	610
36 × 36 × 24	900 × 900 × 600	610	560	813	762	610	560
36 × 36 × 22	900 × 900 × 550	559	509	762	711	559	509
36 × 36 × 20	900 × 900 × 500	546	496	711	660	546	496
36 × 36 × 18	900 × 900 × 450	533	483	660	610	533	483
38 × 38 × 36	950 × 950 × 900	914	864	1118	1067	914	864
38 × 38 × 34	950 × 950 × 850	864	813	1067	1016	864	813
38 × 38 × 32	950 × 950 × 800	813	762	1016	965	813	762
38 × 38 × 30	950 × 950 × 750	762	711	965	914	762	711
38 × 38 × 28	950 × 950 × 700	711	660	914	864	711	660
38 × 38 × 26	950 × 950 × 650	660	610	864	813	660	610
38 × 38 × 24	950 × 950 × 600	610	560	813	762	610	560
38 × 38 × 22	950 × 950 × 550	559	509	762	711	559	509
38 × 38 × 20	950 × 950 × 500	546	496	711	660	546	496
38 × 38 × 18	950 × 950 × 450	533	483	660	610	533	483
40 × 40 × 38	1000 × 1000 × 950	965	914	1168	1117	965	914
40 × 40 × 36	1000 × 1000 × 900	914	864	1117	1067	914	864
40 × 40 × 34	1000 × 1000 × 850	864	813	1067	1016	864	813
40 × 40 × 32	1000 × 1000 × 800	813	762	1016	965	813	762
40 × 40 × 30	1000 × 1000 × 750	762	711	965	914	762	711
40 × 40 × 28	1000 × 1000 × 700	711	660	914	864	711	660
40 × 40 × 26	1000 × 1000 × 650	660	610	864	813	660	610
40 × 40 × 24	1000 × 1000 × 600	610	560	813	762	610	560
40 × 40 × 22	1000 × 1000 × 550	559	509	762	711	559	509
40 × 40 × 20	1000 × 1000 × 500	546	496	711	660	546	496
42 × 42 × 38	1050 × 1050 × 950	965	914	1168	1117	965	914
42 × 42 × 36	1050 × 1050 × 900	914	864	1117	1067	914	864
42 × 42 × 34	1050 × 1050 × 850	864	813	1067	1016	864	813
42 × 42 × 32	1050 × 1050 × 800	813	762	1016	965	813	762
42 × 42 × 30	1050 × 1050 × 750	762	711	965	914	762	711
42 × 42 × 28	1050 × 1050 × 700	711	660	914	864	711	660
42 × 42 × 26	1050 × 1050 × 650	660	610	864	813	660	610
42 × 42 × 24	1050 × 1050 × 600	610	560	813	762	610	560
42 × 42 × 22	1050 × 1050 × 550	559	509	762	711	559	509
42 × 42 × 20	1050 × 1050 × 500	546	496	711	660	546	496
44 × 44 × 38	1100 × 1100 × 950	965	914	1168	1117	965	914
44 × 44 × 36	1100 × 1100 × 900	914	864	1117	1067	914	864
44 × 44 × 34	1100 × 1100 × 850	864	813	1067	1016	864	813
44 × 44 × 32	1100 × 1100 × 800	813	762	1016	965	813	762
44 × 44 × 30	1100 × 1100 × 750	762	711	965	914	762	711
44 × 44 × 28	1100 × 1100 × 700	711	660	914	864	711	660
44 × 44 × 26	1100 × 1100 × 650	660	610	864	813	660	610
44 × 44 × 24	1100 × 1100 × 600	610	560	813	762	610	560
44 × 44 × 22	1100 × 1100 × 550	559	509	762	711	559	509
44 × 44 × 20	1100 × 1100 × 500	546	496	711	660	546	496
46 × 46 × 38	1150 × 1150 × 950	965	914	1168	1117	965	914
46 × 46 × 36	1150 × 1150 × 900	914	864	1117	1067	914	864
46 × 46 × 34	1150 × 1150 × 850	864	813	1067	1016	864	813
46 × 46 × 32	1150 × 1150 × 800	813	762	1016	965	813	762
46 × 46 × 30	1150 × 1150 × 750	762	711	965	914	762	711
46 × 46 × 28	1150 × 1150 × 700	711	660	914	864	711	660
46 × 46 × 26	1150 × 1150 × 650	660	610	864	813	660	610
46 × 46 × 24	1150 × 1150 × 600	610	560	813	762	610	560
46 × 46 × 22	1150 × 1150 × 550	559	509	762	711	559	509
46 × 46 × 20	1150 × 1150 × 500	546	496	711	660	546	496
48 × 48 × 38	1200 × 1200 × 950	965	914	1168	1117	965	914
48 × 48 × 36	1200 × 1200 × 900	914	864	1117	1067	914	864
48 × 48 × 34	1200 × 1200 × 850	864	813	1067	1016	864	813
48 × 48 × 32	1200 × 1200 × 800	813	762	1016	965	813	762
48 × 48 × 30	1200 × 1200 × 750	762	711	965	914	762	711
48 × 48 × 28	1200 × 1200 × 700	711	660	914	864	711	660
48 × 48 × 26	1200 × 1200 × 650	660	610	864	813	660	610
48 × 48 × 24	1200 × 1200 × 600	610	560	813	762	610	560
48 × 48 × 22	1200 × 1200 × 550	559	509	762	711	559	509
48 × 48 × 20	1200 × 1200 × 500	546	496	711	660	546	496
50 × 50 × 38	1250 × 1250 × 950	965	914	1168	1117	965	914
50 × 50 × 36	1250 × 1250 × 900	914	864	1117	1067	914	864
50 × 50 × 34	1250 × 1250 × 850	864	813	1067	1016	864	813
50 × 50 × 32	1250 × 1250 × 800	813	762	1016	965	813	762
50 × 50 × 30	1250 × 1250 × 750	762	711	965	914	762	711
50 × 50 × 28	1250 × 1250 × 700	711	660	914	864	711	660
50 × 50 × 26	1250 × 1250 × 650	660	610	864	813	660	610
50 × 50 × 24	1250 × 1250 × 600	610	560	813	762	610	560
50 × 50 × 22	1250 × 1250 × 550	559	509	762	711	559	509
50 × 50 × 20	1250 × 1250 × 500	546	496	711	660	546	496
52 × 52 × 38	1300 × 1300 × 950	965	914	1168	1117	965	914
52 × 52 × 36	1300 × 1300 × 900	914	864	1117	1067	914	864
52 × 52 × 34	1300 × 1300 × 850	864	813	1067	1016	864	813
52 × 52 × 32	1300 × 1300 × 800	813	762	1016	965	813	762
52 × 52 × 30	1300 × 1300 × 750	762	711	965	914	762	711
52 × 52 × 28	1300 × 1300 × 700	711	660	914	864	711	660
52 × 52 × 26	1300 × 1300 × 650	660	610	864	813	660	610
52 × 52 × 24	1300 × 1300 × 600	610	560	813	762	610	560
52 × 52 × 22	1300 × 1300 × 550	559	509	762	711	559	509
52 × 52 × 20	1300 × 1300 × 500	546	496	711	660	546	496
54 × 54 × 38	1350 × 1350 × 950	965	914	1168	1117	965	914
54 × 54 × 36	1350 × 1350 × 900	914	864	1117	1067	914	864
54 × 54 × 34	1350 × 1350 × 850	864	813	1067	1016	864	813
54 × 54 × 32	1350 × 1350 × 800	813	762	1016	965	813	762
54 × 54 × 30	1350 × 1350 × 750	762	711	965	914	762	711
54 × 54 × 28	1350 × 1350 × 700	711	660	914	864	711	660
54 × 54 × 26	1350 × 1350 × 650	660	610	864	813	660	610
54 × 54 × 24	1350 × 1350 × 600	610	560	813	762	610	560
54 × 54 × 22	1350 × 1350 × 550	559	509	762	711	559	509
54 × 54 × 20	1350 × 1350 × 500	546	496	711	660	546	496
56 × 56 × 38	1400 × 1400 × 950	965	914	1168	1117	965	914
56 × 56 × 36	1400 × 1400 × 900	914	864	1117	1067	914	864
56 × 56 × 34	1400 × 1400 × 850	864	813	1067	1016	864	813
56 × 56 × 32	1400 × 1400 × 800	813	762	1016	965	813	762
56 × 56 × 30	1400 × 1400 × 750	762	711	965	914	762	711
56 × 56 × 28	1400 × 1400 × 700	711	660	914	864	711	660
56 × 56 × 26	1400 × 1400 × 650	660	610	864	813	660	610
56 × 56 × 24	1400 × 1400 × 600	610	560	813	762	610	560
56 × 56 × 22	1400 × 1400 × 550	559	509	762	711	559	509
56 × 56 × 20	1400 × 1400 × 500	546	496	711	660	546	496
58 × 58 × 38	1450 × 1450 × 950	965	914	1168	1117	965	914
58 × 58 × 36	1450 × 1450 × 900	914	864	1117	1067	914	864
58 × 58 × 34	1450 × 1450 × 850	864	813	1067	1016	864	813
58 × 58 × 32	1450 × 1450 × 800	813	762	1016	965	813	762
58 × 58 × 30	1450 × 1450 × 750	762	711	965	914	762	711
58 × 58 × 28	1450 × 1450 × 700	711	660	914	864	711	660
58 × 58 × 26	1450 × 1450 × 650	660	610	864	813	660	610
58 × 58 × 24	1450 × 1450 × 600	610	560	813	762	610	560
58 × 58 × 22	1450 × 1450 × 550	559	509	762	711	559	509</

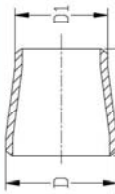
Concentric Reducers/Eccentric Reducers 同心异径管/偏心异径管 GBT 12459 (1/4" ~ 60")

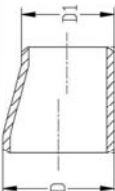
Nominal Size 公称尺寸			Concentric Reducer 同心异径管				Eccentric Reducer 偏心异径管				Unit: mm	
			Outside Diameter at Bevel 坡口处外径		End to End 端面至端面		Outside Diameter at Bevel 坡口处外径		End to End 端面至端面		H	H
			NPS (inch)	DN (mm)	Large End 大口系列	Small End 小口系列	NPS (inch)	DN (mm)	Large End 大口系列	Small End 小口系列		
1/4 x 1/8	20 x 15	26.9	25	21.3	18	38	6 x 3/8	150 x 90	168.3	159	101.6	—
1/4 x 1/4	20 x 20	33.7	32	26.9	25	51	6 x 1/2	150 x 125	219.1	219	101.6	140
1/4 x 3/8	20 x 25	42.4	38	31.7	32	64	6 x 3/4	150 x 150	273	273	101.6	178
1/4 x 1/2	20 x 30	48.3	45	36.9	32	76	8 x 1/4	200 x 125	323.9	323.9	101.6	203
1/4 x 3/4	20 x 35	57	51	41.3	38	89	8 x 1/2	200 x 150	377	377	101.6	330
1/4 x 1	20 x 40	60.3	57	44.3	45	102	10 x 1/4	250 x 125	406.4	406.4	101.6	356
1/4 x 1 1/4	20 x 45	73	64	48.3	45	127	10 x 3/8	250 x 150	457	457	101.6	381
1/4 x 1 1/2	20 x 50	88.9	89	51.3	48	140	12 x 1/4	300 x 125	508	508	101.6	508
1/4 x 2	20 x 55	101.6	102	54.3	51	152	12 x 3/8	300 x 150	559	559	101.6	559
1/4 x 2 1/2	20 x 60	114.3	114.3	57.3	54	165	14 x 1/4	350 x 125	610	610	101.6	610
1/4 x 3	20 x 75	141.3	141.3	63.3	60	190	14 x 3/8	350 x 150	660	660	101.6	660
1/4 x 3 1/2	20 x 90	168.3	168.3	68.3	65	215	16 x 1/4	400 x 125	711	711	101.6	711
1/4 x 4	20 x 100	182.7	182.7	73.3	70	238	16 x 3/8	400 x 150	762	762	101.6	762
1/4 x 4 1/2	20 x 110	195.1	195.1	78.3	75	254	18 x 1/4	450 x 125	813	813	101.6	813
1/4 x 5	20 x 125	219.1	219.1	83.3	80	280	18 x 3/8	450 x 150	864	864	101.6	864
1/4 x 6	20 x 150	244.3	244.3	88.3	85	315	20 x 1/4	500 x 125	914	914	101.6	914
1/4 x 8	20 x 200	304.8	304.8	101.6	100	381	20 x 3/8	500 x 150	965	965	101.6	965
1/4 x 10	20 x 250	354.3	354.3	114.3	110	443	22 x 1/4	550 x 125	1016	1016	101.6	1016
1/4 x 12	20 x 300	406.4	406.4	127	125	508	22 x 3/8	550 x 150	1067	1067	101.6	1067
1/4 x 14	20 x 350	457	457	141.3	138	571	24 x 1/4	600 x 125	1118	1118	101.6	1118
1/4 x 16	20 x 400	508	508	154.3	150	635	24 x 3/8	600 x 150	1169	1169	101.6	1169
1/4 x 18	20 x 450	559	559	167.3	160	700	26 x 1/4	650 x 125	1220	1220	101.6	1220
1/4 x 20	20 x 500	610	610	180.3	175	762	26 x 3/8	650 x 150	1271	1271	101.6	1271
1/4 x 22	20 x 550	660	660	193.3	188	825	28 x 1/4	700 x 125	1322	1322	101.6	1322
1/4 x 24	20 x 600	711	711	206.3	200	889	28 x 3/8	700 x 150	1373	1373	101.6	1373
1/4 x 26	20 x 650	762	762	219.3	210	952	30 x 1/4	750 x 125	1424	1424	101.6	1424
1/4 x 28	20 x 700	813	813	232.3	225	1016	30 x 3/8	750 x 150	1475	1475	101.6	1475
1/4 x 30	20 x 750	864	864	245.3	238	1080	32 x 1/4	800 x 125	1526	1526	101.6	1526
1/4 x 32	20 x 800	914	914	258.3	250	1143	32 x 3/8	800 x 150	1577	1577	101.6	1577
1/4 x 34	20 x 850	965	965	271.3	260	1207	34 x 1/4	850 x 125	1628	1628	101.6	1628
1/4 x 36	20 x 900	1016	1016	284.3	270	1271	34 x 3/8	850 x 150	1679	1679	101.6	1679
1/4 x 38	20 x 950	1067	1067	297.3	280	1335	36 x 1/4	900 x 125	1730	1730	101.6	1730
1/4 x 40	20 x 1000	1118	1118	310.3	290	1400	36 x 3/8	900 x 150	1781	1781	101.6	1781
1/4 x 42	20 x 1050	1169	1169	323.3	300	1465	38 x 1/4	950 x 125	1832	1832	101.6	1832
1/4 x 44	20 x 1100	1220	1220	336.3	310	1529	38 x 3/8	950 x 150	1883	1883	101.6	1883
1/4 x 46	20 x 1150	1271	1271	349.3	320	1593	40 x 1/4	1000 x 125	1934	1934	101.6	1934
1/4 x 48	20 x 1200	1322	1322	362.3	330	1658	40 x 3/8	1000 x 150	1985	1985	101.6	1985
1/4 x 50	20 x 1250	1373	1373	375.3	340	1722	42 x 1/4	1050 x 125	2036	2036	101.6	2036
1/4 x 52	20 x 1300	1424	1424	388.3	350	1787	42 x 3/8	1050 x 150	2087	2087	101.6	2087
1/4 x 54	20 x 1350	1475	1475	401.3	360	1851	44 x 1/4	1100 x 125	2138	2138	101.6	2138
1/4 x 56	20 x 1400	1526	1526	414.3	370	1916	44 x 3/8	1100 x 150	2189	2189	101.6	2189
1/4 x 58	20 x 1450	1577	1577	427.3	380	1980	46 x 1/4	1150 x 125	2240	2240	101.6	2240
1/4 x 60	20 x 1500	1628	1628	440.3	390	2045	46 x 3/8	1150 x 150	2291	2291	101.6	2291

Note: 1. Manufacturing type: Seamless/Welded - 制造形式: 无缝/焊接

GBT 12459 (1/4" ~ 60")

Concentric Reducer 同心异径管										Eccentric Reducer 偏心异径管									
Nominal Size 公称尺寸		Outside Diameter at Bevel 坡口处外径				End to End 端面至端面				Nominal Size 公称尺寸		Outside Diameter at Bevel 坡口处外径				End to End 端面至端面			
NPS (inch)	DN (mm)	Large End 大口系列	Small End 小口系列		H	NPS (inch)	DN (mm)	Large End 大口系列	Small End 小口系列		H	NPS (inch)	DN (mm)	Large End 大口系列	Small End 小口系列		H		
			Series I 大口系列	Series II 小口系列					Series I 大口系列	Series II 小口系列					Series I 大口系列	Series II 小口系列			
26 x 22	650 x 550	660	—	559	610	26 x 22	650 x 550	1067	—	594	610	26 x 22	650 x 550	1067	—	864	610		
26 x 20	650 x 500			487		813													
26 x 18	650 x 450			762		965													
28 x 26	700 x 650	711	—	660	610	28 x 26	700 x 650	1118	—	914	610	28 x 26	700 x 650	1118	—	1067	610		
28 x 24	700 x 600			610		1016													
28 x 22	700 x 550			559		965													
28 x 20	700 x 500	762	—	720	610	28 x 20	700 x 500	1168	—	1016	711	28 x 20	700 x 500	1168	—	1016	711		
30 x 28	750 x 700			559		1169													
30 x 26	750 x 650			508		1118													
30 x 24	750 x 600	813	—	711	610	30 x 24	750 x 600	1219	—	1118	711	30 x 24	750 x 600	1219	—	1118	711		
30 x 22	750 x 550			660		1067													
32 x 30	800 x 750			610		1016													
32 x 28	800 x 700	864	—	762	610	32 x 28	800 x 700	1321	—	1067	711	32 x 28	800 x 700	1321	—	1067	711		
32 x 26	800 x 650			720		1016													
32 x 24	800 x 600			660		965													
34 x 32	850 x 800	914	—	820	610	34 x 32	850 x 800	1422	—	1168	711	34 x 32	850 x 800	1422	—	1168	711		
34 x 30	850 x 750			762		1016													
34 x 28	850 x 700			660		965													
36 x 34	900 x 850	965	—	884	610	36 x 34	900 x 850	1524	—	1219	711	36 x 34	900 x 850	1524	—	1219	711		
36 x 32	900 x 800			762		1016													
36 x 30	900 x 750			660		965													
36 x 28	900 x 700	1016	—	762	610	36 x 28	900 x 700	1626	—	1271	711	36 x 28	900 x 700	1626	—	1271	711		
36 x 26	900 x 650			660		965													
38 x 36	950 x 900			660		965													
38 x 34	950 x 850	1067	—	914	610	38 x 34	950 x 850	1728	—	1321	711	38 x 34	950 x 850	1728	—	1321	711		
38 x 32	950 x 800			864		1067													
38 x 30	950 x 750			762		1016													
38 x 28	950 x 700	1118	—	762	610	38 x 28	950 x 700	1830	—	1373	711	38 x 28	950 x 700	1830	—	1373	711		
38 x 26	950 x 650			660		965													
40 x 38	1000 x 950			660		965													
40 x 36	1000 x 900	1169	—	965	610	40 x 36	1000 x 900	1932	—	1422	711	40 x 36	1000 x 900	1932	—	1422	711		
40 x 34	1000 x 850			914		1118													
40 x 32	1000 x 800			864		1067													
40 x 30	1000 x 750	1220	—	813	610	40 x 30	1000 x 750	2034	—	1475	711	40 x 30	1000 x 750	2034	—	1475	711		
40 x 28	1000 x 700			762		1016													
40 x 26	1000 x 650			660		965													
42 x 40	1050 x 1000	1271	—	762	610	42 x 40	1050 x 1000	2136	—	1526	711	42 x 40	1050 x 1000	2136	—	1526	711		
42 x 38	1050 x 950			660		965													
42 x 36	1050 x 900			660		965													





Note - 注: Manufacturing type: Seamless/Welded - 制造形式: 无缝/焊接

Note - 注: Manufacturing type: Seamless/Welded - 制造形式: 无缝/焊接

Concentric Reducers/Eccentric Reducers 同心异径管/偏心异径管 SH/T 3408 (1/4" ~ 136")

Concentric Reducers 同心异径管										Eccentric Reducers 偏心异径管									
Nominal Size 公称尺寸					Outside Diameter at Bevel 坡口处外径					Nominal Size 公称尺寸					Outside Diameter at Bevel 坡口处外径				
NPS (inch)	DN (mm)				Large End 大端	Small End 小端	H	End to End 端面至端面	Unit: mm	NPS (inch)	DN (mm)				Large End 大端	Small End 小端	H	End to End 端面至端面	Unit: mm
1/4 x 1/4	20 x 15				26.7	21.3	38			12 x 8	300 x 200				323.9	219.1			
1/4 x 1/2	25 x 20				33.4	26.7	51			12 x 6	300 x 150				203	168.3			
1/4 x 3/4	25 x 15					21.3				12 x 5	300 x 125				141.3				
1/4 x 1	32 x 25					31.4				14 x 12	350 x 300				355.6				
1/4 x 1 1/4	32 x 20				42.2	26.7	51			14 x 10	350 x 250				273.1				
1/4 x 1 1/2	32 x 15					21.3				14 x 8	350 x 200				219.1				
1/2 x 1/4	40 x 32					42.2				16 x 6	400 x 150				168.3				
1/2 x 1/2	40 x 25					31.4				16 x 14	400 x 350				355.6				
1/2 x 3/4	40 x 20				48.3	26.7	64			16 x 12	400 x 300				323.9				
1/2 x 1	40 x 15					21.3				16 x 10	400 x 250				273.1				
1/2 x 1 1/4	50 x 40					48.3				16 x 8	400 x 200				219.1				
1/2 x 1 1/2	50 x 32					42.2				18 x 16	450 x 400				406.4				
1/2 x 2	50 x 25				60.3	31.4	76			18 x 14	450 x 350				457				
1/2 x 2 1/4	50 x 20					26.7				18 x 12	450 x 300				381				
2 x 1/4	65 x 50					60.3				18 x 10	450 x 250				273.1				
2 x 1/2	65 x 40					48.3				20 x 18	500 x 450				457				
2 x 3/4	65 x 32				73	42.2	89			20 x 16	500 x 400				406.4				
2 x 1	65 x 25					31.4				20 x 14	500 x 350				355.6				
2 x 1 1/4	80 x 65					73				20 x 12	500 x 300				323.9				
2 x 1 1/2	80 x 50				88.9	60.3	89			22 x 20	550 x 500				508				
2 x 2	80 x 40					48.3				22 x 18	550 x 450				457				
2 x 2 1/4	80 x 32					42.2				22 x 16	550 x 400				406.4				
2 x 3	100 x 80					88.9				22 x 14	550 x 350				355.6				
2 x 3 1/2	100 x 65				114.3	73	102			24 x 22	600 x 550				559				
2 x 4	100 x 50					60.3				24 x 20	600 x 500				508				
2 x 4 1/2	100 x 40					48.3				24 x 18	600 x 450				457				
3 x 1/4	125 x 100					114.3				24 x 16	600 x 400				406.4				
3 x 1/2	125 x 80				141.3	88.9	127			26 x 24	650 x 600				610				
3 x 3/4	125 x 65					73				26 x 22	650 x 550				559				
3 x 1	125 x 50					60.3				26 x 20	650 x 500				508				
3 x 1 1/4	150 x 125				168.3	141.3	140			28 x 18	700 x 650				660				
3 x 1 1/2	150 x 100					114.3				28 x 16	700 x 600				610				
3 x 2	150 x 80					88.9				28 x 14	700 x 550				559				
3 x 2 1/2	150 x 65				219.1	141.3	152			28 x 12	700 x 500				508				
3 x 3	150 x 50					114.3				30 x 28	750 x 700				711				
3 x 3 1/2	150 x 40					102				30 x 26	750 x 650				660				
4 x 1/4	200 x 150					168.3				30 x 24	750 x 600				610				
4 x 1/2	200 x 125				273.1	219.1	178			30 x 22	750 x 550				559				
4 x 3/4	200 x 100					141.3				30 x 20	750 x 500				508				
4 x 1	200 x 80					114.3				32 x 30	800 x 750				813				
4 x 1 1/4	250 x 200					219.1				32 x 28	800 x 700				762				
4 x 1 1/2	250 x 150					168.3				32 x 26	800 x 650				711				
4 x 2	250 x 125					141.3				32 x 24	800 x 600				660				
4 x 2 1/2	250 x 100					114.3				32 x 22	800 x 550				610				
4 x 3	300 x 250					273.1				32 x 20	800 x 500				559				
4 x 3 1/2	300 x 200					219.1				32 x 18	800 x 450				508				
4 x 4	300 x 150					168.3				32 x 16	800 x 400				457				
4 x 4 1/2	300 x 125					141.3				32 x 14	800 x 350				406.4				
4 x 5	300 x 100					114.3				32 x 12	800 x 300				355.6				
4 x 5 1/2	300 x 80					102				32 x 10	800 x 250				304.8				
4 x 6	300 x 60					88.9				32 x 8	800 x 200				254				
4 x 6 1/2	300 x 40					73				32 x 6	800 x 150				203				
4 x 7	300 x 30					60.3				32 x 5	800 x 125				178				
4 x 8	300 x 25					48.3				32 x 4	800 x 100				141.3				
4 x 9	300 x 20					38.1				32 x 3	800 x 75				106.7				
4 x 10	300 x 15					27.3				32 x 2	800 x 50				76.2				
4 x 11	300 x 10					21.3				32 x 1	800 x 25				60.3				
4 x 12	300 x 8					16.8				32 x 1/2	800 x 15				48.3				

Note: 1. Manufacturing type: Seamless/Welded. 2. Unit: mm.

SH/T 3408 (1/4" ~ 136")

Concentric Reducers 同心异径管										Eccentric Reducers 偏心异径管									
Nominal Size 公称尺寸				Outside Diameter at Bevel 坡口处外径				End to End 端面至端面		Nominal Size 公称尺寸				Outside Diameter at Bevel 坡口处外径				End to End 端面至端面	
NPS (inch)	DN (mm)			Large End 大端	Small End 小端	H		D	D1	NPS (inch)	DN (mm)			Large End 大端	Small End 小端	H		D	D1
12 x 28	800 x 700			813	711	610				48 x 40	1200 x 1000			1219	1016	711			
12 x 26	800 x 650				660					48 x 38	1200 x 950				965				
12 x 24	800 x 600				610					48 x 35	1200 x 900				914				
14 x 32	850 x 800				813					52 x 48	1300 x 1200				1219				
14 x 30	850 x 750			864	762	610				52 x 44	1300 x 1100			1321	1118	711			
14 x 28	850 x 700				711					52 x 40	1300 x 1000				1016				
14 x 26	850 x 650				660					56 x 52	1400 x 1300				1321				
14 x 24	850 x 600				610					56 x 48	1400 x 1200			1420	1219	711			
16 x 34	900 x 850				864					60 x 55	1500 x 1400				1118				
16 x 32	900 x 800				813					60 x 52	1500 x 1300			1524	1321	711			
16 x 30	900 x 750				762	610				60 x 48	1500 x 1200				1219				
16 x 28	900 x 700				711					64 x 60	1600 x 1500				1324				
16 x 26	900 x 650				660					64 x 55	1600 x 1400			1626	1422	1219			
16 x 24	900 x 600				610					64 x 52	1600 x 1300				1321				
18 x 36	950 x 900				914					72 x 68	1800 x 1700				1727				
18 x 34	950 x 850				864					72 x 64	1800 x 1600			1829	1626	1219			
18 x 32	950 x 800			965	813	610				72 x 60	1800 x 1500				1524				
18 x 30	950 x 750				762					80 x 75	2000 x 1900				1930				
18 x 28	950 x 700				711					80 x 72	2000 x 1800			2032	1829	1219			
18 x 26	950 x 650				660					80 x 68	2000 x 1700				1727				
40 x 38	1000 x 950				965					88 x 80	2200 x 2000				2032				
40 x 36	1000 x 900				914					88 x 75	2200 x 1900			2235	1930	1626			
40 x 34	1000 x 850				864					88 x 72	2200 x 1800				1829				
40 x 32	1000 x 800				813	610				96 x 88	2400 x 2200				2235				
40 x 30	1000 x 750				762					96 x 80	2400 x 2000			2438	2032	2032			
40 x 28	1000 x 700				711					96 x 75	2400 x 1900				1930				
42 x 40	1050 x 1000				1016					104 x 96	2600 x 2400				2438				
42 x 38	1050 x 950				965					104 x 92	2600 x 2200			2642	2235	2438			
42 x 36	1050 x 900				914					104 x 88	2600 x 2000				2032				
42 x 34	1050 x 850			1067	864	610				112 x 104	2800 x 2600				2642				
42 x 32	1050 x 800				813					112 x 96	2800 x 2400			2845	2438	2438			
42 x 30	1050 x 750				762					112 x 88	2800 x 2200				2235				
44 x 40	1100 x 1000				1016					120 x 112	3000 x 2800				2645				
44 x 38	1100 x 950				965					120 x 104	3000 x 2600			3048	2438	2438			
44 x 36	1100 x 900				914	610				120 x 96	3000 x 2400				2438				
44 x 34	1100 x 850				864					128 x 120	3200 x 3000				3048				
44 x 32	1100 x 800				813					128 x 112	3200 x 2800				2645				
46 x 44	1150 x 1100				1118					128 x 104	3200 x 2600			3251	2642	2438			
46 x 42	1150 x 1050				1067	711				136 x 128	3400 x 3200				3048				
46 x 40	1150 x 1000				1016					136 x 120	3400 x 3000			3454	2645	2438			
46 x 38	1150 x 950				965					136 x 112	3400 x 2800				2645				
48 x 44	1200 x 1100				1219	711													

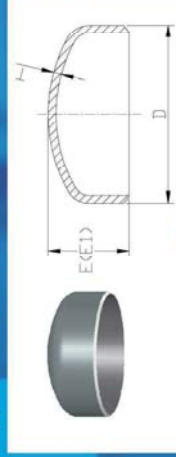
Note: 注 Manufacturing type: Seamless/Welded - 制造形式: 无缝/有缝

Note: 注 Manufacturing type: Seamless/Welded - 制造形式: 无缝/有缝

Caps/管帽

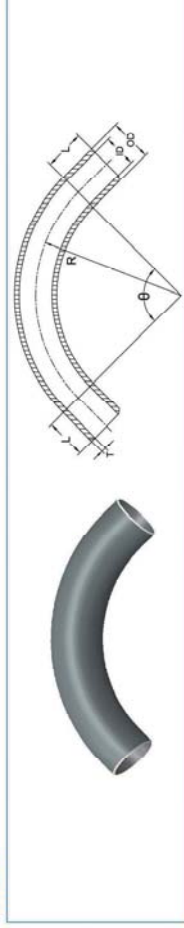
Lap Joint Stub End/翻边短节

ASME B16.9 (1/2" ~ 24") GB/T 12459 (1/2" ~ 24")



Nominal Size 公称尺寸		Outside Diameter at End 端口处外径		Length (Note 1) 长度		Limiting Wall Thickness for E E (Note 2)		Unit: mm	
NPS (inch)	DN (mm)	D	E	E	T	E	T	E1	
1/2	15	21.3	25	4	4	25	4	25	
3/4	20	26.7	25	4	4	25	4	25	
1	25	33.4	38	4.5	3.8	38	4.5	38	
1 1/4	32	42.2	38	5	3.8	38	5	38	
1 1/2	40	48.3	38	5	3.8	38	5	38	
2	50	60.3	38	5.5	4.4	44	5.5	44	
2 1/2	65	73	38	7	5.1	51	7	51	
3	80	88.9	51	7.5	6.4	64	7.5	64	
4	100	114.3	64	8.5	7.6	76	8.5	76	
5	125	141.3	76	9.5	8.9	89	9.5	89	
6	150	168.3	89	11	10.2	102	11	102	
8	200	219.1	102	12.5	12.7	127	12.5	127	
10	250	273	127	12.5	15.2	152	12.5	152	
12	300	323.8	152	12.5	17.8	178	12.5	178	
14	350	355.6	165	12.5	19.1	191	12.5	191	
16	400	406.4	178	12.5	20.3	203	12.5	203	
18	450	457	203	12.5	22.9	229	12.5	229	
20	500	508	229	12.5	25.4	254	12.5	254	
22	550	559	254	12.5	25.4	254	12.5	254	
24	600	610	267	12.5	30.5	305	12.5	305	
26	650	660	267	—	—	—	—	—	
28	700	711	267	—	—	—	—	—	
30	750	762	267	—	—	—	—	—	
32	800	813	267	—	—	—	—	—	
34	850	864	267	—	—	—	—	—	
36	900	914	267	—	—	—	—	—	
38	950	965	305	—	—	—	—	—	
40	1000	1016	305	—	—	—	—	—	
42	1050	1067	305	—	—	—	—	—	
44	1100	1118	343	—	—	—	—	—	
46	1150	1168	343	—	—	—	—	—	
48	1200	1219	343	—	—	—	—	—	
52	1300	1321	355	—	—	—	—	—	
56	1400	1422	381	—	—	—	—	—	
60	1500	1524	406	—	—	—	—	—	
64	1600	1626	432	—	—	—	—	—	
72	1800	1829	482	—	—	—	—	—	
80	2000	2032	533	—	—	—	—	—	
88	2200	2235	599	—	—	—	—	—	
96	2400	2438	650	—	—	—	—	—	
104	2500	2642	701	—	—	—	—	—	
112	2800	2845	751	—	—	—	—	—	
120	3000	3048	802	—	—	—	—	—	
128	3200	3251	853	—	—	—	—	—	
136	3400	3454	904	—	—	—	—	—	

Note: 1. Manufacturing type: Seamless. 2. If the thickness T is greater than the given in column (1), the limiting wall thickness for length E shall be used. 3. For NPS 26 and larger, length E shall be by agreement between the manufacturer and purchaser. 4. For NPS 26 and larger, length E shall be by agreement between the manufacturer and purchaser. 5. For NPS 26 and larger, length E shall be by agreement between the manufacturer and purchaser.



Hot Induction Bends 感应加热弯管

ASME B16.49
ISO 15590-1/EN 14870-1
SY/T 5257

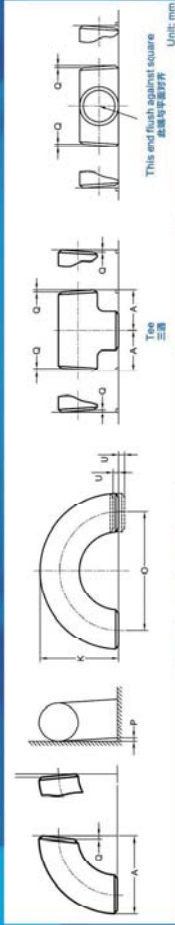
The hot induction bends can be made according to the standards and non-standard that meet the technical requirements of the clients.
感应加热弯管可以根据标准和非标准生产以满足客户的技术要求。

Bend Technical Parameters/弯管技术参数.

Bend Radius/弯曲半径 R	Typical 3D, 4D, 5D, 6D, 7D, 8D, 9D, 10D etc. 典型的 3D, 4D, 5D, 6D, 7D, 8D, 9D, 10D 等等。
Bend Angle/弯曲角度 θ	Typical 15°, 30°, 45°, 60°, 90° etc. 典型的 15°, 30°, 45°, 60°, 90° 等等。
Tangent Length/直管段 L	Recommended D ≤ 508mm, L > 250mm (e.g.: 300mm, 350mm); D > 508mm, L > 500mm (e.g.: 750mm, 1000mm). 建议当 D ≤ 508mm, L > 250mm (例如: 300mm, 350mm); 当 D > 508mm, L > 500mm (例如: 750mm, 1000mm)。
Outside Diameter/外径 OD	As per specified by the clients. 根据客户要求。
Wall Thickness/壁厚 T	Typical Std, Sch10, Sch20, Sch30, Sch40, Sch60, Sch80 etc. 典型的 Std, Sch10, Sch20, Sch30, Sch40, Sch60, Sch80 等等。
Bevel End Type/坡口形式	As per ASME B16.25. 根据 ASME B16.25。
Materials/材质	API 5L PSL1 & PLS2, alloy steel and stainless steel. API 5L PSL1 及 PLS2, 合金钢和不锈钢。
Bend Tolerances Requirements/弯管公差要求	
Bend Radius/弯曲半径	±1%R
Bend Angle/弯曲角度	±0.5°
Bend Plane/弯管平面度	±1°
End Squareness/端面垂直度	D ≤ 914, ±2.4mm; D > 914, ±3mm
Linear Dimensions/线性尺寸	D ≤ 610, ±5mm; D > 610, ±6mm
Wall Thickness/壁厚	T _{min} ≥ 90% of the nominal mating wall thickness or specified minimum wall thickness. 最小壁厚 ≥ 90%的公称壁厚 或者 规定的最小壁厚。
Ovality/圆度	(D _{max} - D _{min}) ≤ 3% of the nominal mating pipe outside diameter within the bend; (D _{max} - D _{min}) ≤ 1% at the welding end. 弯管处(D _{max} - D _{min}) ≤ 所匹配的管子外径的3%; 焊接端处(D _{max} - D _{min}) ≤ 所匹配的管子外径的1%。
Outside Diameter/外径	≤ 1% of the nominal mating pipe outside diameter. ≤ 所匹配的管子外径的1%。
Inside Diameter/内径 ID	Welding Ends 坡口处 D ≤ 914, ±2.5mm; D > 914, ±3mm Body 主体 > 97% of the minimum specified matching pipe internal diameter at any location in the bend. 弯管任何位置的内部尺寸 > 相应的最小内径的97%。

Tolerances of Butt-Welding Fittings/对焊管件公差

Tolerances for ASME B16.9 公差符合 ASME B16.9



All Fittings (1)		Reducers & Sub-Elbows		Caps		180° Returns		Sub-Ends		Angularity					
NPS (inch)	DN (mm)	45°/90° Elbows 45°/90° 弯头及三通		3D Elbows 3D弯头		Center Dimension 中心尺寸		Back to Center Dimension 回中心尺寸		Align-ment of End 端面对齐		Outside of Lap 外部外缘		Off Center 偏中心	
		Outside Bevel 外缘坡口 (2) & (3)	Inside Bevel 内缘坡口 (4)	Wall Thickness 壁厚	Center-to-End Dimension 中心到端点尺寸	Overall Length 总长度	Overall Length 总长度	Center Dimension 中心尺寸	Back to Center Dimension 回中心尺寸	Align-ment of End 端面对齐	Outside of Lap 外部外缘	Filllet Radius of Lap 坡口圆角半径	Lap Thickness 坡口厚度	DN (inch)	Outside at Bevel 外部外缘坡口
1/2 - 2 1/2	15.45 - 219.1	+1.6, -0.8	±0.8	Not Less than 75.5%	±2	±3	±6	±6	±6	±0.1	±1.6, -0	15-100	21.3-114.3	1	2
3 - 3 1/2	80-90	±1.6	±1.6	Less than 75.5%	±2	±3	±6	±6	±6	±0.1	±1.6, -0	125-200	141.3-219.1	2	4
4	100	±1.6	±1.6	±0.8	±2	±3	±6	±6	±6	±0.1	±1.6, -0	250-300	273-323.8	3	5
5-8	125-200	±1.6	±1.6	±0.8	±2	±3	±6	±6	±6	±0.1	±1.6, -0	350-400	355.6-406.4	3	6
10-18	250-450	±1.6	±1.6	±0.8	±2	±3	±6	±6	±6	±0.1	±1.6, -0	450-600	457-610	4	10
20-24	508-600	±1.6	±1.6	±0.8	±2	±3	±6	±6	±6	±0.1	±1.6, -0	600-750	603-762	5	13
28-30	660-750	±1.6	±1.6	±0.8	±2	±3	±6	±6	±6	±0.1	±1.6, -0	813-1067	813-1067	5	13
32-48	813-1219	±1.6	±1.6	±0.8	±2	±3	±6	±6	±6	±0.1	±1.6, -0	1118-1219	1118-1219	5	19

Note: 1) The inside diameter and the nominal wall thickness at ends are to be specified by the client.
2) The tolerance for the inside diameter is to be specified by the client.
3) The tolerance for the wall thickness is to be specified by the client.
4) The tolerance for the center-to-end dimension is to be specified by the client.
5) The tolerance for the center-to-end dimension is to be specified by the client.
6) The tolerance for the center-to-end dimension is to be specified by the client.
7) The tolerance for the center-to-end dimension is to be specified by the client.
8) The tolerance for the center-to-end dimension is to be specified by the client.
9) The tolerance for the center-to-end dimension is to be specified by the client.
10) The tolerance for the center-to-end dimension is to be specified by the client.

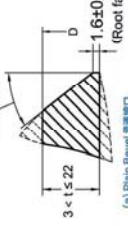
Tolerances for MSS SP-75 公差符合 MSS SP-75

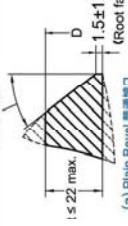
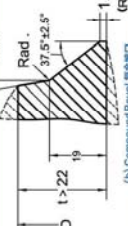
NPS (inch)	DN (mm)	Outside Diameter at Bevel 端口外徑	Inside Diameter at End 端口內徑 (1)	Minimum Wall Thickness 壁厚 (2)	Out-of-Roundness 圓度 (2)			Angular Off-Angle Q 角度偏角 Q			Unit: mm				
					At Ends of Fittings 管口端部	Through- out Body of 管口外徑 其他	Other (4)	Reducers Overall Length 鋼管總長 (3)	Reducers Overall Length 鋼管總長 (3)	Reducers Overall Length 鋼管總長 (3)	Angular Off-Angle 偏角 (4)	Elbows Off Angle 管口偏角 (4)	Eccentricity Off-Plane 偏平面 (4)		
15 - 24	406.4 - 610		±0.09		≥ 19	0.12	2.5%	±0.09	±0.12	H	E	Q	P	25% 0.0	25% 0.0
25 - 36	600 - 911		±0.09	Nonmetal ±0.01	(5)	0.12	2.5%	±0.12	±0.25	±0.19	±0.38	0.05	0.50	25% 0.0	25% 0.0
38 - 48	965 - 1219		±0.12		(5)	0.12	2.5%	±0.19	±0.38	±0.38	±0.38	0.12	0.75	25% 0.0	25% 0.0
50 - 60	1270 - 1554		±0.25		(5)	0.19	2.5%	±0.25	±0.38	±0.38	±0.38	0.15	0.75	25% 0.0	25% 0.0

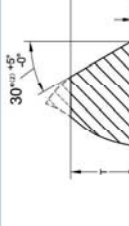
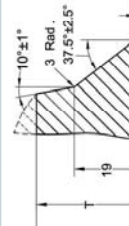
Note: 1) The inside diameter and the nominal wall thickness at ends are to be specified by the client.
2) The tolerance for the inside diameter is to be specified by the client.
3) The tolerance for the wall thickness is to be specified by the client.
4) The tolerance for the center-to-end dimension is to be specified by the client.
5) The tolerance for the center-to-end dimension is to be specified by the client.
6) The tolerance for the center-to-end dimension is to be specified by the client.
7) The tolerance for the center-to-end dimension is to be specified by the client.
8) The tolerance for the center-to-end dimension is to be specified by the client.
9) The tolerance for the center-to-end dimension is to be specified by the client.
10) The tolerance for the center-to-end dimension is to be specified by the client.

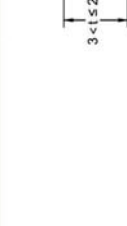
End Preparation/端部制备

ASME B16.25

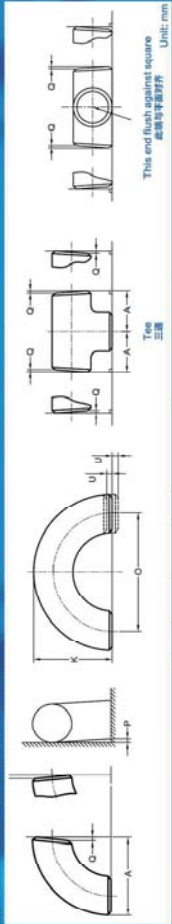
Nominal Wall Thickness: mm 公称壁厚: mm	
 	
End Preparation 端部制备 Cut square or slightly chamfer 切成正方形或微倒角 Plain Bevel as in sketch (a) above 普通坡口, 如上图 (a) 所示 Compound Bevel as in sketch (b) above 复合坡口, 如上图 (b) 所示	

ASME B16.9 SH/T 3408 & GB/T 12459	
 	
End Preparation 端部制备 Cut square or slightly chamfer, at client's option 切成正方形或微倒角, 由客户任选 Plain Bevel as in sketch (a) above 普通坡口, 如上图 (a) 所示 Compound Bevel as in sketch (b) above 复合坡口, 如上图 (b) 所示	

MSS SP-75	
 	
End Preparation 端部制备 Cut square or slightly chamfer, at client's option 切成正方形或微倒角, 由客户任选 Plain Bevel as in sketch (a) above 普通坡口, 如上图 (a) 所示 Compound Bevel as in sketch (b) above 复合坡口, 如上图 (b) 所示	

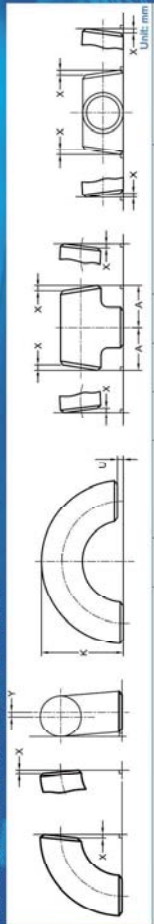
EN 10253-2	
 	
End Preparation 端部制备 Cut square or slightly chamfer 切成正方形或微倒角 Bevel end as in sketch (a) above 坡口端, 如上图 (a) 所示 The type of bevel shall be agreed 坡口形式应协商	

Tolerances for GB/T 12459 公差符合 GB/T 12459



All Fittings 所有附件	
NPS (inch)	Outside Diameter at Bevel (mm)
1/2 - 2 1/2	15-65
3 - 3 1/2	65-90
4	100
5-8	125-200
10-16	250-400
20-24	500-600
26-30	600-760
32-48	800-1200
52-60	1300-1500

Tolerances for SH/T 3408 公差符合 SH/T 3408



All Fittings 所有附件	
NPS (inch)	Outside Diameter at Bevel (mm)
1/2 - 2 1/2	15-65
3 - 3 1/2	65-90
4	100
5-8	125-200
10-16	250-400
20-24	500-600
26-30	600-760
32-48	800-1200
52-60	1300-1500

Note: (1) Unless otherwise specified by the contract, these tolerances of the outside diameter at bevel and wall thickness should be guaranteed in high priority.

(2) 除非另有规定, 否则应优先保证坡口处外径和壁厚公差。

(3) 除非另有规定, 否则应优先保证坡口处壁厚公差。

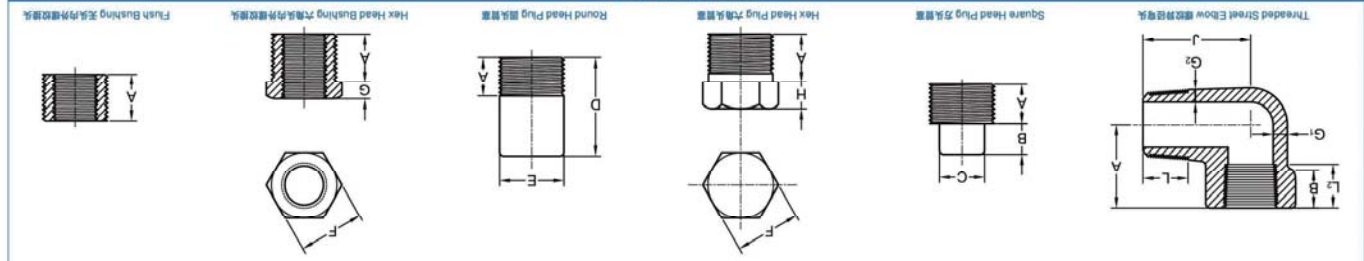
(4) 除非另有规定, 否则应优先保证坡口处壁厚公差。

ASME B16.11

Note - 註 (1) Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas.

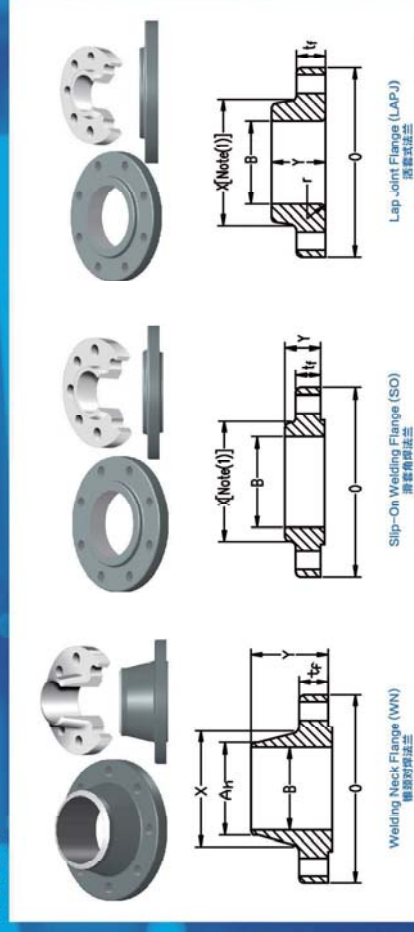
4	100	114.3	106	114	106	88.9	80	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114	106	88.9	80	100	114.3	106	114
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ASME B16.11

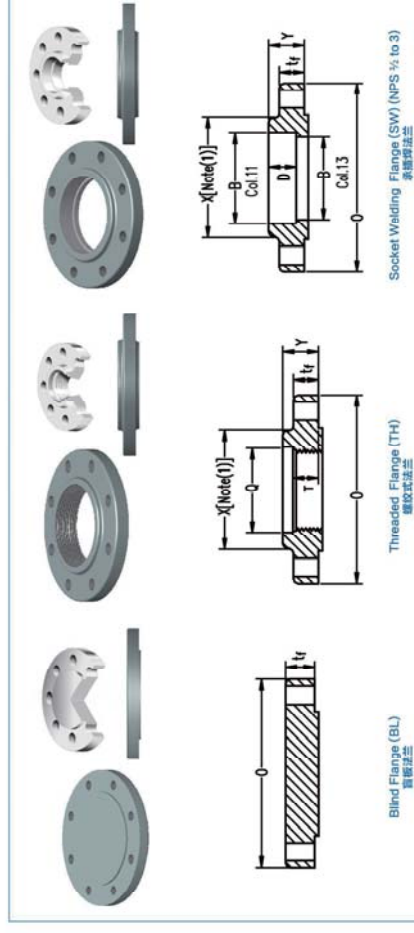
[illegible]

[illegible]

ASME B16.5



Nominal Size 公称尺寸	Pipe Outside Diameter 管外径		CLASS 150 LB Flange Weights 150磅法兰理论重量					CLASS 300 LB Flange Weights 300磅法兰理论重量					CLASS 400 LB Flange Weights 400磅法兰理论重量								
	NPS (inch)	DN (mm)	FLANGE TYPE 法兰型式					FLANGE TYPE 法兰型式					FLANGE TYPE 法兰型式								
			WN 带颈对焊法兰	SO 带颈平焊法兰	LAP-J 带颈搭接法兰	BL 盲板	TH 翻边式法兰	SW 承插焊法兰	WN 带颈对焊法兰	SO 带颈平焊法兰	LAP-J 带颈搭接法兰	BL 盲板	TH 翻边式法兰	SW 承插焊法兰	WN 带颈对焊法兰	SO 带颈平焊法兰	LAP-J 带颈搭接法兰	BL 盲板	TH 翻边式法兰	SW 承插焊法兰	
1/8	15	21.3	0.48	0.39	0.38	0.42	0.39	0.42	0.75	0.64	0.62	0.64	0.64	0.66	0.87	0.74	0.72	0.76	0.74	—	
1/4	20	26.7	0.71	0.58	0.55	0.61	0.56	0.59	1.26	1.12	1.1	1.11	1.12	1.15	1.45	1.27	1.25	1.28	1.27	—	
1/2	25	33.4	1.01	0.78	0.76	0.86	0.78	0.81	1.52	1.36	1.33	1.39	1.36	1.4	1.76	1.52	1.5	1.5	1.52	—	
3/4	32	42.2	1.33	1.01	1.01	1.17	1.01	1.07	2.03	1.68	1.65	1.79	1.68	1.75	2.49	2.33	2	2.23	2.08	—	
1	40	48.3	1.72	1.32	1.3	1.53	1.32	1.36	2.89	2.49	2.44	2.66	2.49	2.55	3.49	2.96	2.82	3.25	2.96	—	
1 1/4	50	60.3	2.56	2.06	2.01	2.42	2.06	2.1	3.4	2.87	2.83	3.18	2.87	2.93	4.36	3.32	3.55	4.15	3.62	—	
1 1/2	65	73	4.11	3.28	3.25	3.94	3.28	3.33	5.17	4.32	4.25	4.85	4.32	4.4	6.43	5.28	5.23	6.13	5.28	—	
2	80	88.9	4.92	3.85	3.81	4.93	3.85	3.9	6.39	5.45	5.78	6.81	5.85	5.92	8.53	6.84	7	8.05	7	—	
2 1/2	90	101.6	6.08	4.81	4.76	6.17	4.81	—	8.67	7.34	7.27	8.71	7.34	—	10.7	8.84	8.88	11	8.84	—	
3	100	114.3	8.84	6.84	6.8	9.35	7	5.3	—	11.2	9.61	9.55	11.5	9.61	—	12.8	11.1	10.9	12.7	11.1	—
3 1/2	125	141.3	8.56	6.07	6.02	8.63	6.07	—	15.1	12.3	12.2	15.6	12.3	—	16.8	13.9	13.7	16.5	13.9	—	
4	150	168.3	10.6	7.45	7.4	11.3	7.45	—	19.3	15.6	15.5	20.8	15.6	—	22	18.3	18	20.5	18.3	—	
5	200	219.1	17.6	12.1	12.1	19.6	12.1	—	29.9	24.2	24.1	24.3	24.2	—	34.7	26.6	26.3	42.6	26.5	—	
6	250	273.1	24	16.5	16.4	28.8	16.5	—	42.7	34.1	34.4	33.3	34.1	—	48.5	39.2	38.8	64.5	39.2	—	
8	300	323.9	36.5	26.2	26.1	43.2	26.2	—	61.8	49.8	50.4	78.8	49.8	—	69.6	57	56.6	94.3	57	—	
10	350	355.6	48.4	34.6	34.5	58.1	34.6	—	85.8	69.9	70.9	105	69.9	—	95.5	79.1	78.6	124	79.1	—	
12	400	406.4	60.6	44.8	44.6	76	44.8	—	106	88.1	89.5	137	88.1	—	118	101	100	162	101	—	
14	450	457	68.3	48.9	48.7	93.7	48.9	—	131	109	111	175	109	—	145	123	122	205	121	—	
16	500	508	84.5	61.9	61.6	122	61.9	—	158	134	137	221	134	—	173	146	145	254	146	—	
24	600	610	115	84.9	86.6	183	84.9	—	220	201	204	339	201	—	249	219	217	386	219	—	

[illegible]

Note - 註
(1) The corresponding technical parameters for each type conform to ASME B16.5.
註：每種型號的技術參數符合ASME B16.5。

Nominal Size 规格尺寸 Outside 外径		SCH 5		SCH 10		SCH 20		SCH 30		SCH 40		SCH 60		SCH 80		SCH 100		SCH 120		SCH 140		SCH 160		SCH 55		SCH 10S		SCH 40S/STD		SCH 80S/XS	
		DN	D	THK	KGS	THK	KGS	THK	KGS	THK	KGS	THK	KGS	THK	KGS	THK	KGS	THK	KGS	THK	KGS	THK	KGS	THK	KGS	THK	KGS	THK	KGS	THK	KGS
1%	25	33.4	165	0.08	2.11	2.77	0.20	2.87	0.12	2.87	0.12	3.91	0.37	4.55	0.32	4.55	0.32	5.56	0.21	7.82	0.26	1.65	0.08	2.11	0.10	2.87	0.13	3.91	0.16	0.16	
1 1/2	30	40.3	165	0.09	2.39	2.77	0.63	3.18	0.72	3.68	0.59	3.91	0.88	5.54	1.20	5.54	1.20	6.74	1.07	10.15	1.40	1.65	0.08	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
2	40	48.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	6.74	1.25	6.74	1.25	8.27	1.10	11.07	1.55	1.65	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
2 1/2	50	60.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	7.94	1.45	7.94	1.45	9.45	1.25	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
3	60	72.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	8.34	1.65	8.34	1.65	9.85	1.45	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
3 1/2	70	84.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	9.14	1.85	9.14	1.85	10.65	1.65	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
4	80	96.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	9.54	2.05	9.54	2.05	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
4 1/2	90	108.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	9.94	2.25	9.94	2.25	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
5	100	120.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	10.34	2.45	10.34	2.45	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
6	120	144.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	10.74	2.65	10.74	2.65	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
8	160	192.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	11.14	3.05	11.14	3.05	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
10	200	240.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	11.54	3.45	11.54	3.45	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
12	240	288.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	11.94	3.85	11.94	3.85	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
14	280	336.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	12.34	4.25	12.34	4.25	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
16	320	384.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	12.74	4.65	12.74	4.65	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
18	360	432.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	13.14	5.05	13.14	5.05	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
20	400	480.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	13.54	5.45	13.54	5.45	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
22	440	528.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	13.94	5.85	13.94	5.85	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
24	480	576.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	14.34	6.25	14.34	6.25	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
26	520	624.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	14.74	6.65	14.74	6.65	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
28	560	672.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	15.14	7.05	15.14	7.05	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
30	600	720.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	15.54	7.45	15.54	7.45	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
32	640	768.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	15.94	7.85	15.94	7.85	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
34	680	816.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	16.34	8.25	16.34	8.25	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
36	720	864.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	16.74	8.65	16.74	8.65	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
38	760	912.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	17.14	9.05	17.14	9.05	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
40	800	960.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	17.54	9.45	17.54	9.45	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
42	840	1008.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	17.94	9.85	17.94	9.85	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
44	880	1056.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	18.34	10.25	18.34	10.25	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
46	920	1104.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	18.74	10.65	18.74	10.65	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	
48	960	1152.3	165	0.09	2.77	0.63	0.88	3.18	0.72	3.68	0.59	3.91	0.88	19.14	11.05	19.14	11.05	11.07	1.78	11.07	1.78	1.78	0.09	2.11	0.10	2.87	0.13	3.91	0.16	0.81	

The General Materials for Pipe Fittings 管件常用材料

ASTM STANDARD 美国标准

Type	Steel Type	Standard	Material	Chemical Composition % max 化学成分											Mechanical Properties 力学性能					
				C	SI	Mn	P	S	Cr	NI	Cu	Mo	V	TI	NB	Others	YS Re	TS Rm	Min Elong Min %	
Welding Fittings	Butt- Welding	ASTM A403/A403M	Stainless Steel	WPS 31803	0.03	1.00	2.00	0.030	0.020	21.00-23.00	4.50-6.50	-	2.50-3.50	-	-	-	-	450	620	20
				WP904L	0.02	1.00	2.00	0.045	0.035	19.00-23.00	2.00-28.00	1.00-2.00	4.00-5.00	-	-	-	220	490	28/20	
				WP347H	0.04-0.10	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	-	-	-	205	515	28/20	
				WP347	0.08	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	-	-	-	205	515	28/20	
				WP321H	0.04-0.10	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	-	-	-	205	515	28/20	
				WP321	0.08	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	-	-	-	205	515	28/20	
				WP316H	0.04-0.10	1.00	2.00	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00	-	-	-	-	205	515	28/20	
				WP316L	0.03	1.00	2.00	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00	-	-	-	-	205	515	28/20	
				WP316	0.08	1.00	2.00	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00	-	-	-	-	205	515	28/20	
				WP304H	0.04-0.10	1.00	2.00	0.045	0.030	18.00-20.00	8.00-11.00	-	-	-	-	-	205	515	28/20	
Pipe	Line Pipe	ASTM A580/A580M	Carbon Steel	WPS 32750	0.03	0.80	1.20	0.035	0.020	26.00-28.00	6.00-8.00	-	-	-	-	-	550	800-965	15	
				WPS 31803	0.03	1.00	2.00	0.030	0.020	21.00-23.00	4.50-6.50	-	2.50-3.50	-	-	-	450	620	20	
				WP904L	0.02	1.00	2.00	0.045	0.035	19.00-23.00	2.00-28.00	1.00-2.00	4.00-5.00	-	-	-	220	490	28/20	
				WP347H	0.04-0.10	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	-	-	-	205	515	28/20	
				WP347	0.08	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	-	-	-	205	515	28/20	
				WP321H	0.04-0.10	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	-	-	-	205	515	28/20	
				WP321	0.08	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	-	-	-	205	515	28/20	
				WP316H	0.04-0.10	1.00	2.00	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00	-	-	-	-	205	515	28/20	
				WP316L	0.03	1.00	2.00	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00	-	-	-	-	205	515	28/20	
				WP316	0.08	1.00	2.00	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00	-	-	-	-	205	515	28/20	
Steel Alloy	Copper Alloy Steel	ASTM B366	Copper Alloy Steel	UNS C71500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				UNS C70600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				UNS N08825	0.05	0.50	1.00	0.015	0.015	19.50-23.50	38.00-46.00	1.50-3.00	2.99-5.00	-	-	-	290	11.00	29.00-33.00	
				UNS N08810	0.05-0.10	1.00	1.50	0.015	0.015	19.00-23.00	30.00-35.00	0.75	-	-	-	-	299-50	1.50-3.00	29.00-33.00	
				UNS N08800	0.10	1.00	1.50	0.015	0.015	19.00-23.00	30.00-35.00	0.75	-	-	-	-	299-50	1.50-3.00	29.00-33.00	
				UNS N06625	0.10	0.50	0.50	0.015	0.015	20.00-23.00	35.00-45.00	0.50	-	-	-	-	8.00-10.00	0.50	29.00-33.00	
				UNS N06600	0.15	0.50	0.50	0.015	0.015	14.00-17.00	27.00	0.50	-	-	-	-	8.00-10.00	0.50	29.00-33.00	
				UNS N04400	0.30	0.50	2.00	0.024	0.024	-	28.0-34.0	-	-	-	-	-	28.0-34.0	-	-	
				WPH90	0.30	0.50	1.60	0.035	0.035	0.25	0.50	0.25	0.25	0.13	0.05	0.10	0.10	0.10	0.10	
				WPH70	0.30	0.50	1.60	0.035	0.035	0.25	0.50	0.25	0.25	0.13	0.05	0.10	0.10	0.10	0.10	
Steel Alloy	Nickel Alloy	ASTM B366	Nickel Alloy	UNS C71500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				UNS C70600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				UNS N08825	0.05	0.50	1.00	0.015	0.015	19.50-23.50	38.00-46.00	1.50-3.00	2.99-5.00	-	-	-	290	11.00	29.00-33.00	
				UNS N08810	0.05-0.10	1.00	1.50	0.015	0.015	19.00-23.00	30.00-35.00	0.75	-	-	-	-	299-50	1.50-3.00	29.00-33.00	
				UNS N08800	0.10	1.00	1.50	0.015	0.015	19.00-23.00	30.00-35.00	0.75	-	-	-	-	299-50	1.50-3.00	29.00-33.00	
				UNS N06625	0.10	0.50	0.50	0.015	0.015	20.00-23.00	35.00-45.00	0.50	-	-	-	-	8.00-10.00	0.50	29.00-33.00	
				UNS N06600	0.15	0.50	0.50	0.015	0.015	14.00-17.00	27.00	0.50	-	-	-	-	8.00-10.00	0.50	29.00-33.00	
				UNS N04400	0.30	0.50	2.00	0.024	0.024	-	28.0-34.0	-	-	-	-	-	28.0-34.0	-	-	
				WPH90	0.30	0.50	1.60	0.035	0.035	0.25	0.50	0.25	0.25	0.13	0.05	0.10	0.10	0.10	0.10	
				WPH70	0.30	0.50	1.60	0.035	0.035	0.25	0.50	0.25	0.25	0.13	0.05	0.10	0.10	0.10	0.10	
Steel Alloy	Copper Alloy Steel	ASTM B366	Copper Alloy Steel	UNS C71500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				UNS C70600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				UNS N08825	0.05	0.50	1.00	0.015	0.015	19.50-23.50	38.00-46.00	1.50-3.00	2.99-5.00	-	-	-	290	11.00	29.00-33.00	
				UNS N08810	0.05-0.10	1.00	1.50	0.015	0.015	19.00-23.00	30.00-35.00	0.75	-	-	-	-	299-50	1.50-3.00	29.00-33.00	
				UNS N08800	0.10	1.00	1.50	0.015	0.015	19.00-23.00	30.00-35.00	0.75	-	-	-	-	299-50	1.50-3.00	29.00-33.00	
				UNS N06625	0.10	0.50	0.50	0.015	0.015	20.00-23.00	35.00-45.00	0.50	-	-	-	-	8.00-10.00	0.50	29.00-33.00	
				UNS N06600	0.15	0.50	0.50	0.015	0.015	14.00-17.00	27.00	0.50	-	-	-	-	8.00-10.00	0.50	29.00-33.00	
				UNS N04400	0.30	0.50	2.00	0.024	0.024	-	28.0-34.0	-	-	-	-	-	28.0-34.0	-	-	
				WPH90	0.30	0.50	1.60	0.035	0.035	0.25	0.50	0.25	0.25	0.13	0.05	0.10	0.10	0.10	0.10	
				WPH70	0.30	0.50	1.60	0.035	0.035	0.25	0.50	0.25	0.25	0.13	0.05	0.10	0.10	0.10	0.10	
Steel Alloy	Nickel Alloy	ASTM B366	Nickel Alloy	UNS C71500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				UNS C70600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				UNS N08825	0.05	0.50	1.00	0.015	0.015	19.50-23.50	38.00-46.00	1.50-3.00	2.99-5.00	-	-	-	290	11.00	29.00-33.00	
				UNS N08810	0.05-0.10	1.00	1.50	0.015	0.015	19.00-23.00	30.00-35.00	0.75	-	-	-	-	299-50	1.50-3.00	29.00-33.00	
				UNS N08800	0.10	1.00	1.50	0.015	0.015	19.00-23.00	30.00-35.00	0.75	-	-	-	-	299-50	1.50-3.00	29.00-33.00	
				UNS N06625	0.10	0.50	0.50	0.015	0.015	20.00-23.00	35.00-45.00	0.50	-	-	-	-	8.00-10.00	0.50	29.00-33.00	
				UNS N06600	0.15	0.50	0.50	0.015	0.015	14.00-17.00	27.00	0.50	-	-	-	-	8.00-10.00	0.50	29.00-33.00	
				UNS N04400	0.30	0.50	2.00	0.024	0.024	-	28.0-34.0	-	-	-	-	-	28.0-34.0	-	-	
				WPH90	0.30	0.50	1.60	0.035	0.035	0.25	0.50	0.25	0.25	0.13	0.05	0.10	0.10	0.10	0.10	
				WPH70	0.30	0.50	1.60	0.035	0.035	0.25	0.50	0.25	0.25	0.13	0.05	0.10	0.10	0.10	0.10	
Steel Alloy	Copper Alloy Steel	ASTM B366	Copper Alloy Steel	UNS C71500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				UNS C70600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				UNS N08825	0.05	0.50	1.00	0.015	0.015	19.50-23.50	38.00-46.00	1.50-3.00	2.99-5.00	-	-	-	290	11.00	29.00-33.00	
				UNS N08810	0.05-0.10	1.00	1.50	0.015	0.015	19.00-23.00	30.00-35.00	0.75	-	-	-	-	299-50	1.50-3.00	29.00-33.00	
				UNS N08800	0.10	1.00	1.50	0.015	0.015	19.00-23.00	30.00-35.									

[illegible]

EN STANDARD 欧盟标准

[illegible]

ASTM STANDARD 美国标准

Type	Standard	Material Grade	Chemical Composition %, max 化学成份													Mechanical Properties 力学性能				
			C	Si	Mn	P	S	Cr	Ni	Cu	Mo	V	TI	Nb	Others	Y.S R _m	T.S R _m	EL A ₅	HB	AKV
PLATES	GB/T 713	Q235B	0.20	0.35	1.40	0.045	0.045	0.045	-	-	-	-	-	-	-	370-500	520	26	20	27
		Q235B	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	470-630	520	26	20	34/27
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	470-630	520	26	20	34/27
		12Cr2Mo1V	0.17-0.15	0.10	0.30-0.60	0.010	0.005	2.00-2.50	0.25	0.30	0.30	0.25-0.35	0.03	-	B5.002, Ca5.015	415	590-760	19	-	50
		12Cr2Mo1V	0.08-0.15	0.15-0.40	0.40-0.70	0.025	0.010	0.90-1.20	0.30	0.30	0.30	0.25-0.35	0.03	-	-	245	440-590	19	-	47
		12Cr2Mo1V	0.08-0.15	0.50	0.30-0.60	0.020	0.010	2.00-2.50	0.30	0.30	0.30	0.045-0.60	0.03	-	-	310	520-680	19	-	47
		15CrMo	0.08-0.18	0.15-0.40	0.40-0.70	0.025	0.010	0.80-1.20	0.30	0.30	0.30	0.045-0.60	0.03	-	-	295	450-590	19	-	47
		Q45R	0.20	0.35	1.20-1.70	0.025	0.010	0.30	0.30	0.30	0.30	0.08	0.05	0.03	Cu+Ni+Cr+Mo≤0.70A1≤0.020	345	510-640	21	0	41
		Q45R	0.20	0.35	0.50-1.10	0.025	0.010	0.30	0.30	0.30	0.30	0.08	0.05	0.03	Cu+Ni+Cr+Mo≤0.70A1≤0.020	245	400-520	25	0	34
		Q235B	0.20	0.35	1.40	0.045	0.045	-	-	-	-	-	-	-	-	370-500	520	26	-	27
PLATES	GB/T 3274	Q235B	0.20	0.35	1.40	0.045	0.045	0.045	-	-	-	-	-	-	-	235	470-640	21/19	135-195	28
		Q235B	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
PLATES	GB/T 19396	Q235B	0.20	0.35	1.40	0.045	0.045	0.045	-	-	-	-	-	-	-	235	470-640	21/19	135-195	28
		Q235B	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
PLATES	GB/T 14976	Q235B	0.20	0.35	1.40	0.045	0.045	0.045	-	-	-	-	-	-	-	235	470-640	21/19	135-195	28
		Q235B	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
PLATES	GB/T 19396	Q235B	0.20	0.35	1.40	0.045	0.045	0.045	-	-	-	-	-	-	-	235	470-640	21/19	135-195	28
		Q235B	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-
		Q355B	0.24	0.55	1.60	0.030	0.030	0.030	0.30	0.30	0.30	0.040	-	-	-	245	500	300	-	-

Type	Standard	Material Grade	Chemical Composition %, max 化学成份													Mechanical Properties 力学性能				
			C	Si	Mn	P	S	Cr	Ni	Cu	Mo	V	TI	Nb	Al	Y.S R _m	T.S R _m	EL A ₅	HB	AKV
PLATES	EN10028-3	P355NH	0.20	0.35	1.40	0.045	0.045	0.045	-	-	-	-	-	-	-	355	490-650	22	-	40/27
		P355NH	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	355	490-650	22	-	40/27
		P355NH	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	355	490-650	22	-	40/27
		P355NH	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	355	490-650	22	-	40/27
		P355NH	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	355	490-650	22	-	40/27
		P355NH	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	355	490-650	22	-	40/27
		P355NH	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	355	490-650	22	-	40/27
		P355NH	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	355	490-650	22	-	40/27
		P355NH	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	355	490-650	22	-	40/27
		P355NH	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	355	490-650	22	-	40/27
PLATES	EN10028-2	P355NH	0.20	0.35	1.40	0.045	0.045	0.045	-	-	-	-	-	-	-	355	490-650	22	-	40/27
		P355NH	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	355	490-650	22	-	40/27
		P355NH	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	355	490-650	22	-	40/27
		P355NH	0.20	0.35	1.60	0.045	0.045	0.045	0.30	0.30	0.30	0.040	-	-	-	355	490-650	22	-	40/27

Notes

Type 类型	Standard 标准	Material Grade 材料等级	Chemical Composition %, max 化学成分											Mechanical Properties 力学性能				
			C	Si	Mn	P	S	Cr	Ni	Cu	Mo	V	Ti	Nb	Others	Y.S R _e L MPa	T.S R _m MPa	EL A %
BARS 棒材	NB/T 47010 (JB/T 4728)	S30408	06Cr19Ni10	0.07	0.75	2.00	0.045	0.030	17.50-19.50	8.00-10.50	-	-	-	-	-	205	515	40
		S30403	022Cr19Ni10	0.03	0.75	2.00	0.045	0.030	18.00-20.00	8.00-12.00	-	-	-	-	-	180	485	40
		S31608	06Cr17Ni12Mo2	0.08	0.75	2.00	0.045	0.030	16.00-18.00	10.00-14.00	-	-	-	-	-	205	515	40
		S31603	022Cr17Ni12Mo2	0.03	0.75	2.00	0.045	0.030	16.00-18.00	10.00-14.00	-	-	-	-	-	180	485	40
		S32168	06Cr17Ni12Mo2Ti	0.08	0.75	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	-	-	-	205	515	40
		S32169	07Cr19Ni11Ti	0.08	0.75	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	-	-	-	205	515	40
		S34778	06Cr18Ni11Nb	0.08	0.75	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	-	-	-	205	515	40
		S34779	07Cr18Ni11Ti	0.04-0.10	1.00	2.00	0.045	0.030	17.00-19.00	9.00-12.00	-	-	-	-	-	205	515	40
		S39042	015Cr21Ni21Mo65Cu2	0.02	1.00	2.00	0.045	0.030	19.00-21.00	24.00-26.00	1.20-2.00	-	-	-	-	220	490	35
		S22253	022Cr22Ni5Mo3N	0.03	1.00	2.00	0.040	0.020	20.50-23.50	1.00-2.00	0.50	-	-	-	-	450	655	30
		S25073	022Cr25Ni7Mo4N	0.03	0.80	1.20	0.035	0.020	24.00-26.00	6.00-8.00	0.50	-	-	-	-	550	795	15
PLATES 板材	GB/T 4237	20	0.17-0.23	0.15-0.40	0.60-1.00	0.030	0.020	0.25	0.30	0.25	-	-	-	-	245	410	25	
		16Mn	0.13-0.20	0.20-0.60	1.20-1.60	0.030	0.020	0.30	0.30	0.25	-	-	-	-	305	410-560	24	
		35CrMo	0.32-0.38	0.15-0.40	0.40-0.70	0.025	0.015	0.80-1.10	0.30	0.25	-	-	-	-	440	620-790	15	
		35CrMo	0.32-0.40	0.17-0.37	0.40-0.70	0.030	0.030	0.80-1.10	0.30	0.25	-	-	-	-	440	620-790	15	
		42CrMo	0.38-0.45	0.17-0.37	0.50-0.80	0.030	0.030	0.90-1.20	0.30	0.25	-	-	-	-	910	1080	12	
		15CrMo	0.12-0.18	0.10-0.60	0.30-0.80	0.025	0.015	0.80-1.25	0.30	0.25	-	-	-	-	280	480-640	20	
		12Cr2Mo1	0.09-0.15	0.15-0.40	0.40-0.70	0.025	0.012	2.00-2.50	0.30	0.25	-	-	-	-	310	470-630	20	
		12Cr2Mo1	0.15	0.50	0.30-0.60	0.020	0.012	2.00-2.50	0.30	0.25	-	-	-	-	380	470-630	20	
		12Cr2Mo1	0.15	0.50	0.30-0.60	0.020	0.012	2.00-2.50	0.30	0.25	-	-	-	-	380	470-630	20	
		12Cr2Mo1	0.15	0.50	0.30-0.60	0.020	0.012	2.00-2.50	0.30	0.25	-	-	-	-	380	470-630	20	
		12Cr2Mo1	0.15	0.50	0.30-0.60	0.020	0.012	2.00-2.50	0.30	0.25	-	-	-	-	380	470-630	20	
BARS 棒材	NB/T 47010 (JB/T 4728)	S30408	06Cr19Ni10	0.08	1.00	2.00	0.035	0.035	18.00-20.00	8.00-11.00	-	-	-	-	-	210	480	35
		S31608	06Cr17Ni12Mo2	0.08	1.00	2.00	0.035	0.035	16.00-18.00	10.00-14.00	-	-	-	-	-	220	520	35
		S31603	022Cr17Ni12Mo2	0.04-0.10	1.00	2.00	0.035	0.035	16.00-18.00	10.00-14.00	-	-	-	-	-	210	480	35
		S32168	06Cr17Ni12Mo2Ti	0.04-0.10	1.00	2.00	0.035	0.035	17.00-19.00	9.00-12.00	-	-	-	-	-	205	520	40
		S32169	07Cr19Ni11Ti	0.04-0.10	1.00	2.00	0.035	0.035	17.00-19.00	9.00-12.00	-	-	-	-	-	205	520	40
		S34778	06Cr18Ni11Nb	0.04-0.10	1.00	2.00	0.035	0.015	17.00-19.00	9.00-12.00	-	-	-	-	-	205	520	40
		S34779	07Cr18Ni11Nb	0.04-0.10	1.00	2.00	0.035	0.015	17.00-19.00	9.00-12.00	-	-	-	-	-	205	520	35
		S39042	015Cr21Ni21Mo65Cu2	0.02	1.00	2.00	0.030	0.010	19.00-21.00	24.00-26.00	1.20-2.00	-	-	-	-	220	490	35
		S22253	022Cr22Ni5Mo3N	0.03	1.00	2.00	0.030	0.015	21.00-23.00	4.50-6.50	-	-	-	-	-	450	620	25
		S25073	022Cr25Ni7Mo4N	0.03	1.00	2.00	0.030	0.015	24.00-26.00	6.00-8.00	0.50	-	-	-	-	550	800	25
		NB/T 47010	Nb	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NB/T 47010	Others	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		