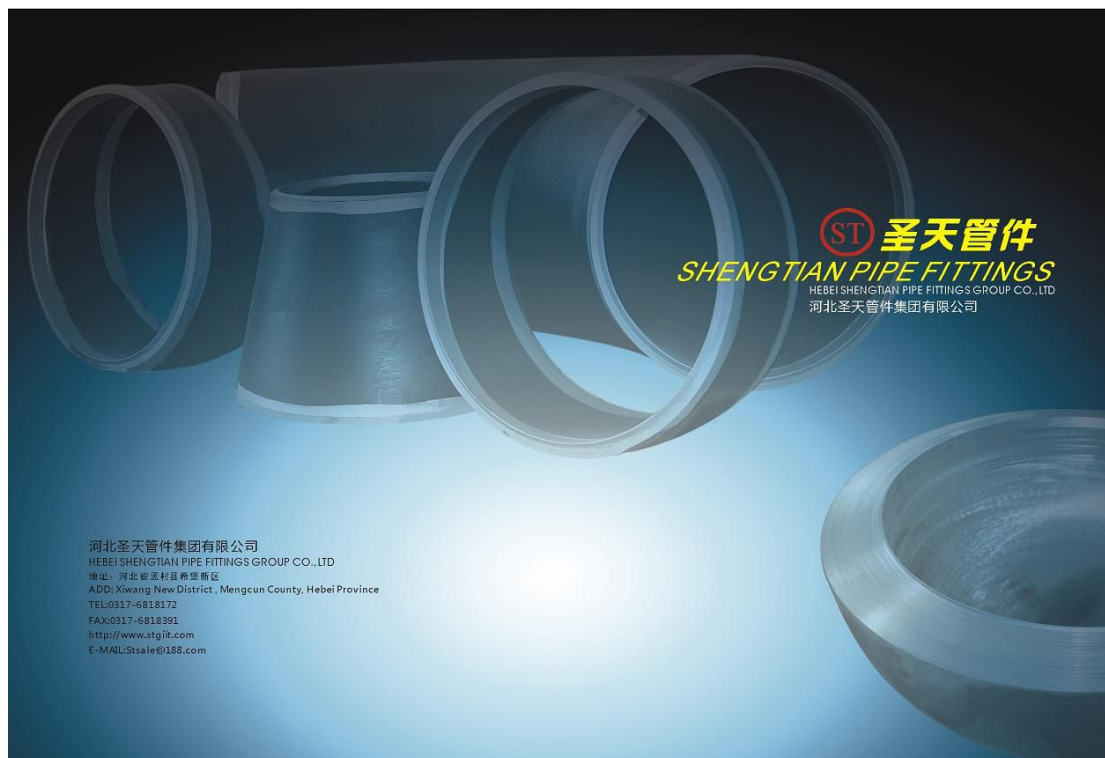




ST 圣天管件
SHENG TIAN PIPE FITTINGS
HEBEI SHENG TIAN PIPE FITTINGS GROUP CO., LTD
河北圣天管件集团有限公司

河北圣天管件集团有限公司
HEBEI SHENG TIAN PIPE FITTINGS GROUP CO., LTD
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ADD: Xiwang New District, Mengcun County, Hebei Province
TEL: 0317-6818172
FAX: 0317-6818391
http://www.stgfit.com
E-MAIL: Stsale@188.com



公司简介 Company Introduction

河北圣天管件集团有限公司位于“中国管件之都”河北省孟村县，东临渤海，南依济南，北靠京津，京沪铁路，京福高速，距天津新港一百公里，首都国际机场二百公里，交通十分便利。

河北圣天管件集团有限公司始建于1989年，占地面积10万平方米，注册资金5180万元人民币。拥有职工380余人，各类专业技术人员900多人，是专业生产管件系列产品企业。

公司专业生产弯头、三通、弯管、异径管、管帽、法兰、承插等管件系列产品。可按ANSI、ASME、API 5L、ГОСТ、DIN、JIS等标准生产，产品并出口到东南亚、中东、欧美等数十个国家和地区，在国内外市场享有很高的信誉。公司拥有的无损检验、超声检测、万能试验机、冲击试验机、物理检测和理化实验室，形成了完整的质量安全检测体系。产品质量实行三级检验制度和一票否决制，实现产品出厂合格率100%。

公司建立了科学的质量保证体系，已获得：“ISO 9001-2000质量管理体系认证”、“ISO 14001环境/OHSAS 18001安全管理认证”、“特种设备制造许可证”、“美国石油协会（API）认证”、“中国船级社CCS认证”，完善的质量保证体系与科学的制造工艺有效的保证了产品质量。

公司引进的800吨全自动中频液压弯管机，压制中频弯管规格可达D1520*120mm，压制A335P22合金钢无缝高压弯头D1121*100mm，填补了国内管件制造业不能做大口径弯头的空白。新建大型自动热处理炉一台，一次性可同时处理产品50余吨，可以满足所有大型高压管件及配管。

河北圣天管件集团有限公司竭诚欢迎海内外各界朋友光临指导，共谋发展。

Company Introduction

Hebei Shengtian Pipe Fittings Group Co., Ltd. is located in Mengcun County in Hebei Province, the "Hometown of Pipe Fittings in China". Mengcun County bordering Bohai Sea in the east, Jinan in the south and Beijing and Tianjin in the north, with Beijing-Shanghai Railway and Beijing-Fuzhou Expressway passing by, and it is 100km from Tianjin New Port and 200km from the Capital International Airport, the transportation is convenient.

Established in 1989, Hebei Shengtian Pipe Fittings Group Co., Ltd. covers a land area of 100,000m², with registered capital up to USD 7500,000. It has over 380 employees, including over 90 professionals and technicians specializing in production of various pipe fittings. The main are elbows, tees, bends, reducers, caps, flanges and sockets etc. It can carry out production according to the standards such as ANSI, ASME, API 5L, ГОСТ, DIN and JIS etc., and its products are exported to over most countries and regions in Southeast Asia, the Middle East, Europe and America etc., enjoying a very good reputation in the domestic and foreign markets. The company has nondestructive testing apparatus, superasonic testing apparatus, universal testing machine, impact tester and physical & chemical labs, forming a complete quality assurance system. It adopts a 3-tiered inspection system and the one-vote-down system for product quality, realizing a conformity rate of 100% in ex-factory inspection of products.

The company has established a scientific quality assurance system and obtained the certificates such as: "The ISO 9001-2000 quality system certification", "ISO 14001 environment management system/OHSAS 18001 safety management system certification", "the special equipment manufacture permit", "the American Petroleum Institute (API) certificate" and "China Classification Society (CCS) Certificate". Its sound quality assurance system and scientific manufacturing processes are an effective guarantee for product quality.

It has introduced a 800-ton full automatic medium-frequency hydraulic pipe bender, which can produce medium-frequency bends with specification up to ID1520*120mm and A335P22 alloy steel seamless high pressure elbows with specification up to ID1121*100mm, filling in the gap of large-caliber elbows in the domestic pipe fitting manufacturing industry. It has one newly built large-scale automatic heat-treatment furnace, which can simultaneously process over 50 tons of various products, including all large-scale high-pressure fittings and pipes.

We sincerely welcome customers at home and abroad to visit us and seek common development.

QULIFICATION PAPER

资质证书

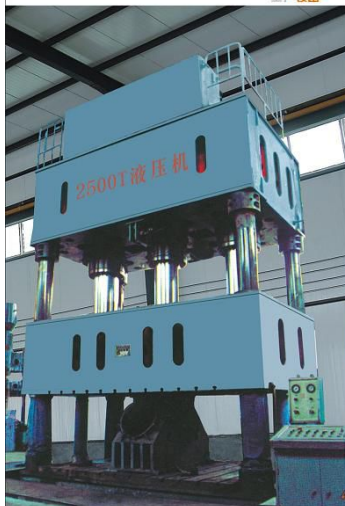


QULIFICATION PAPER



PRODUCTION EQUIPMENT

生产设备



2500吨液压机，可承接加工
修理弯头口径至4260mm
Hydraulic pressure machine
of 2500,000kilograms that
can be used to process the
jointing of elbow with a maxim-
um 2800mm caliber

Heat treatment furnace
热处理炉



抛丸机 Shot-blasting machine

PRODUCTION EQUIPMENT

生产设备

大型弯管机

Large-scale bend machine



推制机 Extruding machine



锯床

DETECTING EQUIPMENT



direct reading spectrometer 直读光谱仪

Balance 天平



Manganese phosphorus silicon chemical analyzer
锰磷硅化学分析仪

Physical & Chemical Testing
理化实验

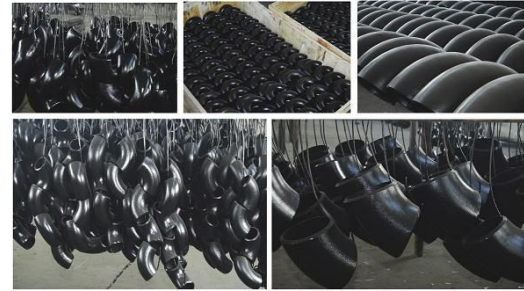
EXPORT PRODUCTS SERIES

出口系列产品



ASTM LR90° ELBOW ASTM S/R90° ELBOW ASTM LR45° ELBOW ASTM CON REDUCER ASTM ECC REDUCER

ASTM CAP ASTM STRAIGHT TEE ASTM REDUCING TEE ASTM LR180° ELBOW ASTM S/R180° ELBOW



EXPORT PRODUCTS SERIES

出口系列产品



法兰系列产品 FLANGE SERIES PRODUCTS



PIPE FITTINGS SERIES PRODUCT

管件系列产品



高压承插
high pressure socket

高压承插
high pressure socket

高压三通
high pressure tee



高压大小头
high pressure transition pipe



高压弯头
high pressure elbow



高压配管
high pressure tubing

PIPE FITTINGS SERIES PRODUCT

管件系列产品



不锈钢管件系列 stainless steel fitting series



承插管件系列产品 FAUCET PIPE FITTINGS PRODUCTS SERLES

IMPORT AND EXPORT TRANSPORT SCENE

进出口运输场景



IMPORT AND EXPORT SCENE
进出口运输场景

【TECHNICAL DATA】

Wall Thickness Schedules (ASME)											
ASME B36.10 ASME B36.19											
Nominal Pipe Size (NPS)		Outside Diameter		Sch 40		Sch 40S		Sch 10		Sch 10S	
A	B	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN
8	14	13.7	0.540	1.65	0.065	1.65	0.065	2.34	0.093	2.34	0.093
10	16	17.1	0.675	1.91	0.075	1.91	0.075	2.31	0.091	2.31	0.091
15	20	21.3	0.840	2.11	0.083	2.11	0.083	2.77	0.109	2.77	0.109
20	24	26.7	1.06	2.31	0.091	2.31	0.091	3.12	0.125	3.12	0.125
25	30	32.4	1.27	2.77	0.109	2.77	0.109	3.55	0.140	3.55	0.140
30	36	38.1	1.50	3.12	0.125	3.12	0.125	3.91	0.154	3.91	0.154
40	48	48.3	1.90	3.55	0.140	3.55	0.140	4.31	0.169	4.31	0.169
50	60	60.3	2.38	3.91	0.154	3.91	0.154	4.78	0.188	4.78	0.188
60	72	72.0	2.83	4.31	0.169	4.31	0.169	5.16	0.203	5.16	0.203
80	96	95.9	3.78	5.16	0.203	5.16	0.203	5.91	0.233	5.91	0.233
100	120	119.1	4.75	5.91	0.233	5.91	0.233	6.62	0.261	6.62	0.261
125	150	149.3	5.91	6.62	0.261	6.62	0.261	7.44	0.293	7.44	0.293
150	180	177.8	7.00	7.44	0.293	7.44	0.293	8.31	0.327	8.31	0.327
200	240	235.0	9.25	9.25	0.375	9.25	0.375	10.31	0.409	10.31	0.409
250	300	299.7	11.81	10.31	0.409	10.31	0.409	11.56	0.455	11.56	0.455
300	360	354.9	14.00	11.56	0.455	11.56	0.455	12.70	0.500	12.70	0.500
360	420	419.1	16.50	12.70	0.500	12.70	0.500	14.00	0.550	14.00	0.550
420	480	476.4	18.75	14.00	0.550	14.00	0.550	15.40	0.609	15.40	0.609
480	540	533.4	21.00	15.40	0.609	15.40	0.609	16.91	0.669	16.91	0.669
540	600	590.5	23.25	16.91	0.669	16.91	0.669	18.53	0.731	18.53	0.731
600	660	647.6	25.50	18.53	0.731	18.53	0.731	20.25	0.800	20.25	0.800
660	720	707.6	27.86	20.25	0.800	20.25	0.800	22.12	0.875	22.12	0.875
720	780	766.7	30.21	22.12	0.875	22.12	0.875	24.12	0.950	24.12	0.950
780	840	825.8	32.54	24.12	0.950	24.12	0.950	26.25	1.031	26.25	1.031
840	900	884.9	34.88	26.25	1.031	26.25	1.031	28.50	1.118	28.50	1.118
900	960	944.0	37.22	28.50	1.118	28.50	1.118	30.87	1.210	30.87	1.210
960	1020	1003.1	39.57	30.87	1.210	30.87	1.210	33.33	1.307	33.33	1.307
1020	1080	1062.2	41.91	33.33	1.307	33.33	1.307	35.88	1.409	35.88	1.409
1080	1140	1121.3	44.26	35.88	1.409	35.88	1.409	38.53	1.516	38.53	1.516
1140	1200	1180.4	46.61	38.53	1.516	38.53	1.516	41.27	1.629	41.27	1.629
1200	1260	1239.5	48.96	41.27	1.629	41.27	1.629	44.10	1.747	44.10	1.747

SHENGTIAN PIPE FITTINGS SHENGTIAN PIPE FITTINGS

Wall Thickness Schedules (ASME)											
ASME B36.10 ASME B36.19											
Nominal Pipe Size (NPS)		Outside Diameter		Sch 40		Sch 40S		Sch 10		Sch 10S	
A	B	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN
8	14	13.7	0.540	1.65	0.065	1.65	0.065	2.34	0.093	2.34	0.093
10	16	17.1	0.675	1.91	0.075	1.91	0.075	2.31	0.091	2.31	0.091
15	20	21.3	0.840	2.11	0.083	2.11	0.083	2.77	0.109	2.77	0.109
20	24	26.7	1.06	2.31	0.091	2.31	0.091	3.12	0.125	3.12	0.125
25	30	32.4	1.27	2.77	0.109	2.77	0.109	3.55	0.140	3.55	0.140
30	36	38.1	1.50	3.12	0.125	3.12	0.125	3.91	0.154	3.91	0.154
40	48	48.3	1.90	3.55	0.140	3.55	0.140	4.31	0.169	4.31	0.169
50	60	60.3	2.38	3.91	0.154	3.91	0.154	4.78	0.188	4.78	0.188
60	72	72.0	2.83	4.31	0.169	4.31	0.169	5.16	0.203	5.16	0.203
80	96	95.9	3.78	5.16	0.203	5.16	0.203	5.91	0.233	5.91	0.233
100	120	119.1	4.75	5.91	0.233	5.91	0.233	6.62	0.261	6.62	0.261
125	150	149.3	5.91	6.62	0.261	6.62	0.261	7.44	0.293	7.44	0.293
150	180	177.8	7.00	7.44	0.293	7.44	0.293	8.31	0.327	8.31	0.327
200	240	235.0	9.25	9.25	0.375	9.25	0.375	10.31	0.409	10.31	0.409
250	300	299.7	11.81	10.31	0.409	10.31	0.409	11.56	0.455	11.56	0.455
300	360	354.9	14.00	11.56	0.455	11.56	0.455	12.70	0.500	12.70	0.500
360	420	419.1	16.50	12.70	0.500	12.70	0.500	14.00	0.550	14.00	0.550
420	480	476.4	18.75	14.00	0.550	14.00	0.550	15.40	0.609	15.40	0.609
480	540	533.4	21.00	15.40	0.609	15.40	0.609	16.91	0.669	16.91	0.669
540	600	590.5	23.25	16.91	0.669	16.91	0.669	18.53	0.731	18.53	0.731
600	660	647.6	25.50	18.53	0.731	18.53	0.731	20.25	0.800	20.25	0.800
660	720	707.6	27.86	20.25	0.800	20.25	0.800	22.12	0.875	22.12	0.875
720	780	766.7	30.21	22.12	0.875	22.12	0.875	24.12	0.950	24.12	0.950
780	840	825.8	32.54	24.12	0.950	24.12	0.950	26.25	1.031	26.25	1.031
840	900	884.9	34.88	26.25	1.031	26.25	1.031	28.50	1.118	28.50	1.118
900	960	944.0	37.22	28.50	1.118	28.50	1.118	30.87	1.210	30.87	1.210
960	1020	1003.1	39.57	30.87	1.210	30.87	1.210	33.33	1.307	33.33	1.307
1020	1080	1062.2	41.91	33.33	1.307	33.33	1.307	35.88	1.409	35.88	1.409
1080	1140	1121.3	44.26	35.88	1.409	35.88	1.409	38.53	1.516	38.53	1.516
1140	1200	1180.4	46.61	38.53	1.516	38.53	1.516	41.27	1.629	41.27	1.629
1200	1260	1239.5	48.96	41.27	1.629	41.27	1.629	44.10	1.747	44.10	1.747

[TECHNICAL DATA]

METAL PRODUCTS CO., LTD.

Wall Thickness Schedules (JIS and DIN)

JIS G3452, JIS G3454, JIS G3457

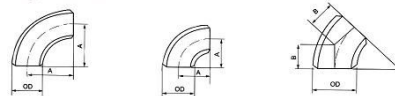
Nominal pipe size(NPS)	Outside Diameter		SGP		L6		STD		XS	
	A	B	WT	ID	WT	ID	WT	ID	WT	ID
15	172	217	23	181	-	-	-	-	-	-
20	219	273	28	216	-	-	-	-	-	-
25	273	341	35	271	-	-	-	-	-	-
32	354	427	43	357	-	-	-	-	-	-
40	426	500	50	426	-	-	-	-	-	-
50	530	605	58	529	-	-	-	-	-	-
60	635	711	67	630	-	-	-	-	-	-
75	789	864	83	782	-	-	-	-	-	-
90	914	990	97	907	-	-	-	-	-	-
100	1016	1092	107	1010	-	-	-	-	-	-
125	1273	1368	133	1265	-	-	-	-	-	-
150	1524	1625	159	1513	-	-	-	-	-	-
200	2133	2238	219	2112	-	-	-	-	-	-
250	2714	2823	274	2689	-	-	-	-	-	-
300	3239	3352	326	3212	-	-	-	-	-	-
350	3764	3881	378	3734	-	-	-	-	-	-
400	4289	4409	429	4256	-	-	-	-	-	-
450	4814	4937	480	4778	-	-	-	-	-	-
500	5339	5464	531	5299	-	-	-	-	-	-
550	5864	5991	582	5821	-	-	-	-	-	-
600	6389	6517	633	6344	-	-	-	-	-	-
650	6914	7043	684	6864	-	-	-	-	-	-
700	7439	7569	734	7389	-	-	-	-	-	-
750	7964	8095	784	7914	-	-	-	-	-	-
800	8489	8621	834	8439	-	-	-	-	-	-
850	9014	9147	884	8964	-	-	-	-	-	-
900	9539	9673	934	9489	-	-	-	-	-	-
950	10064	10200	984	10014	-	-	-	-	-	-
1000	10589	10726	1034	10539	-	-	-	-	-	-
1050	11114	11252	1084	11064	-	-	-	-	-	-
1100	11639	11777	1134	11589	-	-	-	-	-	-
1150	12164	12303	1184	12114	-	-	-	-	-	-
1200	12689	12828	1234	12639	-	-	-	-	-	-

Nominal pipe size(NPS)	Outside Diameter		Wall thickness, s (mm)				
	A	B	1	2	3	4	5
1/2	15	21.3	1.8	-	2.0	3.2	4.0
3/4	20	26.9	2.0	-	2.3	3.2	4.0
1	25	33.7	2.0	-	2.6	3.2	4.0
1 1/4	32	42.4	2.0	-	2.6	3.6	4.0
1 1/2	40	48.3	2.0	-	2.6	4.0	5.0
2	50	60.3	2.0	-	2.9	4.5	5.6
2 1/2	65	76.1	2.3	-	3.2	5.0	6.0
3	80	88.9	2.3	-	3.2	5.6	6.0
4	100	114.3	2.6	-	3.6	6.3	6.8
5	125	139.7	2.6	-	4.0	6.3	6.8
6	150	165.1	2.6	4.0	4.5	7.1	10.0
8	200	219.1	2.9	4.5	5.3	8.0	12.5
10	250	273.1	2.9	5.0	5.3	8.0	12.5
12	300	323.9	2.9	5.6	7.1	10.0	-
14	350	355.6	3.2	5.6	8.0	11.0	-
16	400	406.4	3.2	6.3	8.8	12.5	-
18	450	457.0	4.0	6.3	10.0	-	-
20	500	508.0	4.0	6.3	11.0	-	-
24	600	610.0	5.0	6.3	12.5	-	-
28	700	711.0	5.0	7.1	12.5	-	-
32	800	813.0	5.6	8.0	12.5	-	-
36	900	914.0	6.3	10.0	12.5	-	-
40	1000	1016.0	6.3	10.0	12.5	-	-
48	1200	1220.0	6.3	12.5	-	-	-

18

SHENG TIAN PIPE FITTINGS

Wrought Steel Buttwelding Fittings(ASME) Long and Short Radius Elbows



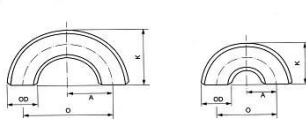
ASME B16.9, B16.28

Nominal pipe size(NPS)	Outside Diameter at bevel		Center-to-End					
			90° Elbows			45° Elbows		
			Long Radius		Short Radius	Long Radius		Short Radius
	IN	MM	IN	MM	IN	MM	IN	MM
1/2	0.84	21.3	15	38	-	0.62	16	-
3/4	1.05	26.7	11.2	29	-	0.44	11	-
1	1.32	33.4	15	38	1	25	0.88	22
1 1/4	1.68	42.2	1.88	48	1.25	32	1	25
1 1/2	1.9	48.3	2.25	57	1.5	38	1.12	29
2	2.38	60.3	3	76	2	51	1.36	35
2 1/2	2.88	73.0	3.75	95	2.5	64	1.35	41
3	3.5	88.9	4.5	114	3	76	2	51
3 1/2	4	101.6	5.25	133	3.5	89	2.26	57
4	4.8	114.3	6	152	4	102	2.5	64
5	5.56	141.3	7.5	190	5	127	3.12	79
6	6.62	168.3	9	229	6	152	3.35	86
8	8.62	219.1	12	305	8	203	5	127
10	10.75	273.0	15	381	10	254	6.25	158
12	12.75	323.9	18	457	12	305	7.5	190
14	14	355.6	21	533	14	356	8.25	210
16	16	406.4	24	610	16	406	10	254
18	18	457.0	27	686	18	457	11.25	286
20	20	508.0	30	762	20	508	12.5	318
22	22	559	33	838	22	559	13.5	343
24	24	610	36	914	24	610	15	381
26	26	660	39	991	26	660	16	406
28	28	711	42	1067	28	711	17.25	438
30	30	762	45	1143	30	762	18.5	468
32	32	813	48	1219	32	813	19.75	502
34	34	864	51	1295	34	864	21	533
36	36	914	54	1372	36	914	22.25	565
38	38	965	57	1448	38	965	23.5	597
40	40	1016	60	1524	40	1016	24.86	627
42	42	1067	63	1600	42	1067	26	660
44	44	1118	66	1676	44	1118	27.38	692
46	46	1168	69	1753	46	1168	28.62	727
48	48	1219	72	1829	48	1219	29.96	759

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[TECHNICAL DATA]

Wrought Steel Buttwelding Fittings(ASME) Long and Short Radius Returns



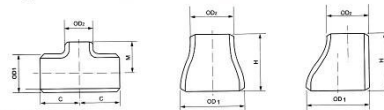
ASME B16.9, B16.28

Nominal pipe size(NPS)	Outside Diameter at bevel		Center-to-End				End-to-End			
			180 Returns		180 Returns		180 Returns		180 Returns	
			Long Radius		Short Radius		Long Radius		Short Radius	
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
1/2	0.84	21.3	3	76	-	-	1.88	48	-	-
3/4	1.05	26.7	2.25	57	-	-	1.69	43	-	-
1	1.32	33.4	3	76	2	51	2.19	56	1.62	41
1 1/4	1.68	42.2	3.75	95	2.5	64	2.76	70	2.06	52
1 1/2	1.9	48.3	4.5	114	3	76	3.25	83	2.44	62
2	2.38	60.3	6	152	4	102	4.19	106	3.19	81
2 1/2	2.88	73.0	7.5	190	5	127	5.19	132	3.94	100
3	3.5	88.9	9	229	6	152	6.25	159	4.75	121
3 1/2	4	101.6	10.5	267	7	178	7.25	184	5.5	140
4	4.8	114.3	12	305	8	203	8.25	210	6.25	158
5	5.56	141.3	15	381	10	254	10.31	262	7.75	197
6	6.62	168.3	19	483	12	305	12.31	313	9.31	237
8	8.62	219.1	24	610	16	406	16.31	414	12.31	313
10	10.75	273.0	30	762	20	508	20.38	518	15.38	391
12	12.75	323.9	36	914	24	610	24.38	619	18.38	467
14	14	355.6	42	1067	28	711	28	711	21	533
16	16	406.4	48	1219	32	813	32	813	24	610
18	18	457	54	1372	36	914	36	914	27	686
20	20	508	60	1524	40	1016	40	1016	30	762
22	22	559	66	1676	44	1118	44	1118	33	838
24	24	610	72	1829	48	1219	48	1219	36	914

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SHENG TIAN PIPE FITTINGS

Wrought Steel Buttwelding Fittings(ASME) Reducing Tees and Concentric & Eccentric Reducers

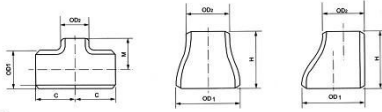


ASME B16.9

Nominal Pipe Size (NPS)	Outside Diameter at Bevel				Center-to-End				End-to-End	
	OD1		C		M		H		H	
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
1/2	0.84	21.3	1.12	29	1.12	29	1.5	38	-	-
3/4	1.05	26.7	0.84	21.3	1.5	38	1.5	38	2	51
1	1.32	33.4	0.84	21.3	1.5	38	1.5	38	2	51
1 1/4	1.68	42.2	1.32	33.4	1.88	48	1.88	48	2	51
1 1/2	1.9	48.3	1.68	42.2	2.25	57	1.88	48	2	51
2	2.38	60.3	2.06	52	2.25	57	2.25	57	2.5	64
2 1/2	2.88	73.0	2.44	62	2.25	57	2.25	57	2.5	64
3	3.5	88.9	2.88	73.0	2.62	66	2.25	57	2.5	64
3 1/2	4	101.6	3.5	89	2.62	66	2.25	57	2.5	64
4	4.8	114.3	4	102	2.62	66	2.25	57	2.5	64
5	5.56	141.3	4.5	114	2.62	66	2.25	57	2.5	64
6	6.62	168.3	5	127	2.62	66	2.25	57	2.5	64
8	8.62	219.1	6	152	2.62	66	2.25	57	2.5	64
10	10.75	273.0	7.5	190	2.62	66	2.25	57	2.5	64
12	12.75	324.0	9	229	2.62	66	2.25	57	2.5	64
14	14.75	374.0	10.5	267	2.62	66	2.25	57	2.5	64
16	16.75	425.0	12	305	2.62	66	2.25	57	2.5	64
18	18.75	475.0	13.5	343	2.62	66	2.25	57	2.5	64
20	20.75	525.0	15	381	2.62	66	2.25	57	2.5	64
22	22.75	575.0	16.5	419	2.62	66	2.25	57	2.5	64
24	24.75	625.0	18	457	2.62	66	2.25	57	2.5	64
26	26.75	675.0	19.5	493	2.62	66	2.25	57	2.5	64
28	28.75	725.0	21	533	2.62	66	2.25	57	2.5	64
30	30.75	775.0	22.5	572	2.62	66	2.25	57	2.5	64
32	32.75	825.0	24	609	2.62	66	2.25	57	2.5	64
34	34.75	875.0	25.5	643	2.62	66	2.25	57	2.5	64
36	36.75	925.0	27	686	2.62	66	2.25	57	2.5	64
38	38.75	975.0	28.5	723	2.62	66	2.25	57	2.5	64
40	40.75	1025.0	30	762	2.62	66	2.25	57	2.5	64
42	42.75	1075.0	31.5	798	2.62	66	2.25	57	2.5	64
44	44.75	1125.0	33	838	2.62	66	2.25	57	2.5	64
46	46.75	1175.0	34.5	876	2.62	66	2.25	57	2.5	64
48	48.75	1225.0	36	914	2.62	66	2.25	57	2.5	64
50	50.75	1275.0	37.5	953	2.62	66	2.25	57	2.5	64
52	52.75	1325.0	39	991	2.62	66	2.25	57	2.5	64
54	54.75	1375.0	40.5	1027	2.62	66	2.25	57	2.5	64
56	56.75	1425.0	42	1067	2.62	66	2.25	57	2.5	64
58	58.75	1475.0	43.5	1103	2.62	66	2.25	57	2.5	64
60	60.75	1525.0	45	1143	2.62	66	2.25	57	2.5	64
62	62.75	1575.0	46.5	1181	2.62	66	2.25	57	2.5	64
64	64.75	1625.0	48	1219	2.62	66	2.25	57	2.5	64
66	66.75	1675.0	49.5	1255	2.62	66	2.25	57	2.5	64
68	68.75	1725.0	51	1293	2.62	66	2.25	57	2.5	64
70	70.75	1775.0	52.5	1331	2.62	66	2.25	57	2.5	64
72	72.75	1825.0	54	1370	2.62	66	2.25	57	2.5	64
74	74.75	1875.0	55.5	1406	2.62	66	2.25	57	2.5	64
76	76.75	1925.0	57	1445	2.62	66	2.25	57	2.5	64
78	78.75	1975.0	58.5	1481	2.62	66	2.25	57	2.5	64
80	80.75	2025.0	60	1519	2.62	66	2.25	57	2.5	64
82	82.75	2075.0	61.5	1557	2.62	66	2.25	57	2.5	64
84	84.75	2125.0	63	1595	2.62	66	2.25	57	2.5	64
86	86.75	2175.0	64.5	1633	2.62	66	2.25	57	2.5	64
88	88.75	2225.0	66	1671	2.62	66	2.25	57	2.5	64
90	90.75	2275.0	67.5	1709	2.62	66	2.25	57	2.5	64
92	92.75	2325.0	69	1747	2.62	66	2.25	57	2.5	64
94	94.75	2375.0	70.5	1785	2.62	66	2.25	57	2.5	64
96	96.75	2425.0	72	1823	2.62	66	2.25	57	2.5	64
98	98.75	2475.0	73.5	1861	2.62	66	2.25	57	2.5	64
100	100.75	2525.0	75	1899	2.62	66	2.25	57	2.5	64
102	102.75	2575.0	76.5	1937	2.62	66	2.25	57	2.5	64
104	104.75	2625.0	78	1975	2.62	66	2.25	57	2.5	64
106	106.75	2675.0	79.5	2013	2.62	66	2.25	57	2.5	64
108	108.75	2725.0	81	2051	2.62	66	2.25	57	2.5	64
110	110.75	2775.0	82.5	2089	2.62	66	2.25	57	2.5	64
112	112.75	2825.0	84	2127	2.62	66	2.25	57	2.5	64
114	114.75	2875.0	85.5	2165	2.62	66	2.25	57	2.5	64
116	116.75	2925.0	87	2203	2.62	66	2.25	57	2.5	64
118	118.75	2975.0	88.5	2241	2.62	66	2.25	57	2.5	64
120	120.75	3025.0	90	2279	2.62	66	2.25	57	2.5	64
122	122.75	3075.0	91.5	2317	2.62	66	2.25	57	2.5	64
124	124.75	3125.0	93	2355	2.62	66	2.25	57	2.5	64
126	126.75	3175.0	94.5	2393	2.62	66	2.25	57	2.5	64
128	128.75	3225.0	96	2431	2.62	66	2.25	57	2.5	64
130	130.75	3275.0	97.5	2469	2.62	66	2.25	57	2.5	64
132	132.75	3325.0	99	2507	2.62	66	2.25	57	2.5	64
134	134.75	3375.0	100.5	2545	2.62	66	2.25	57	2.5	64
136	136.75	3425.0	102	2583	2.62	66	2.25	57	2.5	64
138	138.75	3475.0	103.5	2621	2.62	66	2.25	57	2.5	64
140	140.75	3525.0	105	2659	2.62	66	2.25	57	2.5	64
142	142.75	3575.0	106.5	2697	2.62	66	2.25	57	2.5	64
144	144.75	3625.0	108	2735	2.62	66	2.25	57	2.5	64
146	146.75	3675.0	109.5	2773	2.62	66	2.25	57	2.5	64
148	148.75	3725.0	111	2811	2.62	66	2.25	57	2.5	64
150	150.75	3775.0	112.5	2849	2.62	66	2.25	57	2.5	64
152	152.75	3825.0	114	2887	2.62	66	2.25	57	2.5	64
154	154.75	3875.0	115.5	2925	2.62	66	2.25	57	2.5	64
156	156.75	3925.0	117	2963	2.62	66	2.25	57	2.5	64
158	158.75	3975.0	118.5	3001	2.62	66	2.25	57	2.5	64
160	160.75	4025.0	120	3039	2.62	66	2.25	57	2.5	64
162	162.75	4075.0	121.5	3077	2.62	66	2.25	57	2.5	64
164	164.75	4125.0	123	3115	2.62	66	2.25	57	2.5	64
166	166.75	4175.0	124.5	3153	2.62	66	2.25	57	2.5	64
168	168.75	4225.0	126	3191	2.62	66	2.25	57	2.5	64
170	170.75	4275.0	127.5	3229	2.62	66	2.25	57	2.5	64
172	172.75	4325.0	129	3267	2.62	66	2.25	57	2.5	64
174	174.75	4375.0	130.5	3305	2.62	66	2.25	57	2.5	64
176	176.75	4425.0	132	3343	2.62	66	2.25	57	2.5	64
178	178.75	4475.0	133.5	3381	2.62	66	2.25	57	2.5	64
180	180.75	4525.0	135	3419	2.62	66	2.25	57	2.5	64
182	182.75	4575.0	136.5	3457	2.62	66	2.25	57	2.5	64
184	184.75	4625.0	138	3495	2.62	66	2.25	57	2.5	64
186	186.75	4675.0	139.5	3533	2.62	66	2.25	57	2.5	64
188	188.75	4725.0	141	3571	2.62	66	2.25	57	2.5	64
190	190.75	4775.0	142.5	3609	2.62	66	2.25	57	2.5	64
192	192.75	4825.0	144	3647	2.62	66	2.25	57	2.5	64
194	194.75	4875.0	145.5	3685	2.62	66	2.25	57	2.5	64
196	196.75	4925.0	147	3723	2.62	66	2.25	57	2.5	64
198	198.75	4975.0	148.5	3761	2.62	66	2.25	57	2.5	64
200	200.75	5025.0	150	3799	2.62	66	2.25	57	2.5	64
202	202.75	5075.0	151.5	3837	2.62	66	2.25	57	2.5	64
204	204.75	5125.0	153	3875	2.62	66	2.25	57	2.5	64
206	206.75	5175.0	154.5	3913	2.62	66	2.25	57	2.5	64
208	208.75	5225.0	156	3951	2.62	66	2.25	57	2.5	64
210	210.75	5275.0	157.5	3989	2.62	66	2.25	57	2.5	64
212	212.75	5325.0	159	4027	2.62	66	2.25	57	2.5	64
214	214.75	5375.0	160.5	4065	2.62	66	2.25	57	2.5	64
216	216.75	5425.0	162	4103	2.62	66	2.25	57	2.5	64
218	218.75	5475.0	163.5	4141	2.62	66	2.25	57	2.5	64
220	220.75	5525.0	165	4179	2.62	66	2.25	57	2.5	64
222	222.75	5575.0	166.5	4217	2.62	66	2.25	57	2.5	64
224	224.75	5625.0	168	4255	2.62	66	2.25	57	2.5	64
226	226.75	5675.0	169.5	4293	2.62	66	2.25	57	2.5	64
228	228.75	5725.0	171	4331	2.62	66	2.25	57	2.5	64
230	230.75	5775.0	172.5	4369	2.62	66	2.25	57	2.5	64
232	232.75	5825.0	174	4407	2.62	66	2.25	57	2.5	64
234	234.75	5875.0	175.5	4445	2.62	66	2.25	57	2.5	64
236	236.75	5								

【TECHNICAL DATA】

Wrought Steel Buttwelding Fittings(ASME) Reducing Tees and Concentric & Eccentric Reducers



ASME B16.9

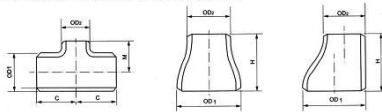
Nominal Pipe Size(NPS)	Outside Diameter at Bevel				Center-to-End				End-to-End	
	OD1		OD2		C		M(1)		H	
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
5/4	5.56	141.3	4.5	114.3	4.88	124	4.62	117	5	127
5/4	5.56	141.3	4	101.6	4.88	124	4.5	114	5	127
5/4	5.56	141.3	3.5	88.9	4.88	124	4.38	111	5	127
5/4	5.56	141.3	2.88	73	4.88	124	4.25	108	5	127
5/4	5.56	141.3	2.38	60.3	4.88	124	4.12	105	5	127
5/4	5.56	141.3	1.9	48.3	4.88	124	*	*	5	127
5/4	5.56	141.3	1.66	42.2	4.88	124	*	*	5	127
6	6.62	168.3	4.5	114.3	5.62	143	5.38	137	5.5	140
6	6.62	168.3	4	101.6	5.62	143	5	127	5.5	140
6	6.62	168.3	3.5	88.9	5.62	143	4.88	124	5.5	140
6	6.62	168.3	2.88	73	5.62	143	4.75	121	5.5	140
6	6.62	168.3	2.38	60.3	5.62	143	*	*	5.5	140
6	6.62	168.3	1.9	48.3	5.62	143	*	*	5.5	140
6	6.62	168.3	1.66	42.2	5.62	143	*	*	5.5	140
8	8.62	219.1	6.62	168.3	7	178	6.62	168	6	152
8	8.62	219.1	5.56	141.3	7	178	6.38	162	6	152
8	8.62	219.1	4.5	114.3	7	178	6.12	156	6	152
8	8.62	219.1	4	101.6	7	178	6	152	6	152
8	8.62	219.1	3.5	88.9	7	178	*	*	6	152
8	8.62	219.1	2.88	73	7	178	*	*	6	152
8	8.62	219.1	2.38	60.3	7	178	*	*	6	152
8	8.62	219.1	1.9	48.3	7	178	*	*	6	152
8	8.62	219.1	1.66	42.2	7	178	*	*	6	152
10	10.75	273	8.62	219.1	8.5	216	8	203	7	178
10	10.75	273	7.62	193.0	8.5	216	7.62	194	7	178
10	10.75	273	6.62	168.3	8.5	216	7.5	191	7	178
10	10.75	273	5.56	141.3	8.5	216	7.25	184	7	178
10	10.75	273	4.5	114.3	8.5	216	7	178	7	178
10	10.75	273	3.5	88.9	8.5	216	*	*	7	178
12	12.75	323.8	10.75	273	10	254	9.5	241	8	203
12	12.75	323.8	9.62	244.5	10	254	9	229	8	203
12	12.75	323.8	8.62	219.1	10	254	8.62	219	8	203
12	12.75	323.8	7.62	193.0	10	254	8.5	216	8	203
12	12.75	323.8	6.62	168.3	10	254	*	*	8	203
12	12.75	323.8	5.56	141.3	10	254	*	*	8	203
12	12.75	323.8	4.5	114.3	10	254	*	*	8	203
14	14.5	365.6	12.75	323.8	11	279	10.62	270	13	330
14	14.5	365.6	11.62	295.1	11	279	10.12	257	13	330
14	14.5	365.6	10.75	273	11	279	9.75	248	13	330
14	14.5	365.6	9.62	244.5	11	279	9.38	238	13	330
14	14.5	365.6	8.62	219.1	11	279	9	229	13	330
14	14.5	365.6	7.62	193.0	11	279	8.88	224	13	330
14	14.5	365.6	6.62	168.3	11	279	8.5	216	13	330
14	14.5	365.6	5.56	141.3	11	279	*	*	13	330
16	16	406.4	14	355.6	12	305	11.62	295	14	356
16	16	406.4	12.75	323.8	12	305	11.12	283	14	356
16	16	406.4	11.62	295.1	12	305	10.75	273	14	356
16	16	406.4	10.75	273	12	305	10.38	264	14	356
16	16	406.4	9.62	244.5	12	305	10.12	257	14	356
16	16	406.4	8.62	219.1	12	305	10.02	252	14	356
16	16	406.4	7.62	193.0	12	305	9.75	248	14	356
16	16	406.4	6.62	168.3	12	305	9.5	241	14	356
16	16	406.4	5.56	141.3	12	305	9.25	235	14	356
16	16	406.4	4.5	114.3	12	305	9	229	14	356
18	18	457	16	406.4	13.5	343	13	330	15	381

NOTE:
(1) Outlet dimensions M for run sizes NPS 14 and larger is recommended but not required.

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【TECHNICAL DATA】

Wrought Steel Buttwelding Fittings(ASME) Reducing Tees and Concentric & Eccentric Reducers



ASME B16.9

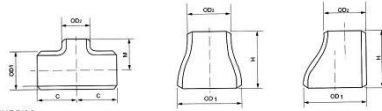
Nominal Pipe Size(NPS)	Outside Diameter at Bevel				Center-to-End				End-to-End	
	OD1		OD2		C		M(1)		H	
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
5/4	5.56	141.3	4.5	114.3	4.88	124	4.62	117	5	127
5/4	5.56	141.3	4	101.6	4.88	124	4.5	114	5	127
5/4	5.56	141.3	3.5	88.9	4.88	124	4.38	111	5	127
5/4	5.56	141.3	2.88	73	4.88	124	4.25	108	5	127
5/4	5.56	141.3	2.38	60.3	4.88	124	4.12	105	5	127
5/4	5.56	141.3	1.9	48.3	4.88	124	*	*	5	127
5/4	5.56	141.3	1.66	42.2	4.88	124	*	*	5	127
6	6.62	168.3	4.5	114.3	5.62	143	5.38	137	5.5	140
6	6.62	168.3	4	101.6	5.62	143	5	127	5.5	140
6	6.62	168.3	3.5	88.9	5.62	143	4.88	124	5.5	140
6	6.62	168.3	2.88	73	5.62	143	4.75	121	5.5	140
6	6.62	168.3	2.38	60.3	5.62	143	*	*	5.5	140
6	6.62	168.3	1.9	48.3	5.62	143	*	*	5.5	140
6	6.62	168.3	1.66	42.2	5.62	143	*	*	5.5	140
8	8.62	219.1	6.62	168.3	7	178	6.62	168	6	152
8	8.62	219.1	5.56	141.3	7	178	6.38	162	6	152
8	8.62	219.1	4.5	114.3	7	178	6.12	156	6	152
8	8.62	219.1	4	101.6	7	178	6	152	6	152
8	8.62	219.1	3.5	88.9	7	178	*	*	6	152
8	8.62	219.1	2.88	73	7	178	*	*	6	152
8	8.62	219.1	2.38	60.3	7	178	*	*	6	152
8	8.62	219.1	1.9	48.3	7	178	*	*	6	152
8	8.62	219.1	1.66	42.2	7	178	*	*	6	152
10	10.75	273	8.62	219.1	8.5	216	8	203	7	178
10	10.75	273	7.62	193.0	8.5	216	7.62	194	7	178
10	10.75	273	6.62	168.3	8.5	216	7.5	191	7	178
10	10.75	273	5.56	141.3	8.5	216	7.25	184	7	178
10	10.75	273	4.5	114.3	8.5	216	7	178	7	178
10	10.75	273	3.5	88.9	8.5	216	*	*	7	178
12	12.75	323.8	10.75	273	10	254	9.5	241	8	203
12	12.75	323.8	9.62	244.5	10	254	9	229	8	203
12	12.75	323.8	8.62	219.1	10	254	8.62	219	8	203
12	12.75	323.8	7.62	193.0	10	254	8.5	216	8	203
12	12.75	323.8	6.62	168.3	10	254	*	*	8	203
12	12.75	323.8	5.56	141.3	10	254	*	*	8	203
12	12.75	323.8	4.5	114.3	10	254	*	*	8	203
14	14.5	365.6	12.75	323.8	11	279	10.62	270	13	330
14	14.5	365.6	11.62	295.1	11	279	10.12	257	13	330
14	14.5	365.6	10.75	273	11	279	9.75	248	13	330
14	14.5	365.6	9.62	244.5	11	279	9.38	238	13	330
14	14.5	365.6	8.62	219.1	11	279	9	229	13	330
14	14.5	365.6	7.62	193.0	11	279	8.88	224	13	330
14	14.5	365.6	6.62	168.3	11	279	8.5	216	13	330
14	14.5	365.6	5.56	141.3	11	279	*	*	13	330
16	16	406.4	14	355.6	12	305	11.62	295	14	356
16	16	406.4	12.75	323.8	12	305	11.12	283	14	356
16	16	406.4	11.62	295.1	12	305	10.75	273	14	356
16	16	406.4	10.75	273	12	305	10.38	264	14	356
16	16	406.4	9.62	244.5	12	305	10.12	257	14	356
16	16	406.4	8.62	219.1	12	305	10.02	252	14	356
16	16	406.4	7.62	193.0	12	305	9.75	248	14	356
16	16	406.4	6.62	168.3	12	305	9.5	241	14	356
16	16	406.4	5.56	141.3	12	305	9.25	235	14	356
16	16	406.4	4.5	114.3	12	305	9	229	14	356
18	18	457	16	406.4	13.5	343	13	330	15	381

NOTE:
(1) Outlet dimensions M for run sizes NPS 14 and larger is recommended but not required.

21

SHENG TIAN PIPE FITTINGS SHENG TIAN PIPE FITTINGS

Wrought Steel Buttwelding Fittings(ASME) Reducing Tees and Concentric & Eccentric Reducers

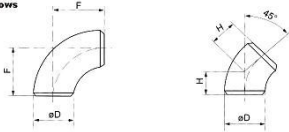


ASME B16.9

Nominal Pipe Size(NPS)	Outside Diameter at Bevel				Center-to-End				End-to-End	
	OD1		OD2		C		M		H	
	IN		IN		IN		IN		IN	
1/2	1.05	267	0.84	213	1.12	29	1.12	29	1.5	38
3/4	1.32	334	1.05	267	1.5	38	1.5	38	2	51
1	1.66	422	1.32	334	1.8	46	1.8	46	2.5	64
1 1/4	1.66	422	1.32	334	1.8	46	1.8	46	2	51
1 1/2	1.91	483	1.66	422	2.25	57	2.25	57	2.5	64
2	2.37	603	2.08	530	2.75	70	2.75	70	3	76
2 1/2	2.88	735	2.59	660	3.25	83	3.25	83	3.5	89
3	3.36	861	3.07	780	3.75	96	3.75	96	4	102
3 1/2	3.86	987	3.57	905	4.25	109	4.25	109	4.5	115
4	4.37	1113	4.08	1030	4.75	122	4.75	122	5	127
4 1/2	4.88	1239	4.59	1155	5.25	135	5.25	135	5.5	140
5	5.39	1365	5.10	1280	5.75	148	5.75	148	6	152
5 1/2	5.90	1491	5.61	1405	6.25	161	6.25	161	6.5	165
6	6.41	1617	6.12	1530	6.75	174	6.75	174	7	177
6 1/2	6.92	1743	6.63	1655	7.25	187	7.25	187	7.5	190
7	7.43	1869	7.14	1780	7.75	200	7.75	200	8	202
7 1/2	7.94	2016	7.65	1930	8.25	213	8.25	213	8.5	215
8	8.45	2142	8.16	2055	8.75	226	8.75	226	9	227
8 1/2	8.96	2268	8.67	2180	9.25	239	9.25	239	9.5	240
9	9.47	2394	9.18	2305	9.75	252	9.75	252	10	252
9 1/2	9.98	2520	9.69	2430	10.25	265	10.25	265	10.5	265
10	10.49	2646	10.20	2555	10.75	278	10.75	278	11	277
10 1/2	11.00	2772	10.71	2680	11.25	291	11.25	291	11.5	290
11	11.51	2898	11.22	2805	11.75	304	11.75	304	12	302
11 1/2	12.02	3024	11.73	2930	12.25	317	12.25	317	12.5	315
12	12.53	3150	12.24	3055	12.75	330	12.75	330	13	327
12 1/2	13.04	3276	12.75	3180	13.25	343	13.25	343	13.5	340
13	13.55	3402	13.26	3305	13.75	356	13.75	356	14	352
13 1/2	14.06	3528	13.77	3430	14.25	369	14.25	369	14.5	365
14	14.57	3654	14.28	3555	14.75	382	14.75	382	15	377
14 1/2	15.08	3780	14.79	3680	15.25	395	15.25	395	15.5	390
15	15.59	3906	15.30	3805	15.75	408	15.75	408	16	402
15 1/2	16.10	4032	15.81	3930	16.25	421	16.25	421	16.5	415
16	16.61	4158	16.32	4055	16.75	434	16.75	434	17	427
16 1/2	17.12	4284	16.83	4180	17.25	447	17.25	447	17.5	440
17	17.63	4410	17.34	4305	17.75	460	17.75	460	18	452
17 1/2	18.14	4536	17.85	4430	18.25	473	18.25	473	18.5	465
18	18.65	4662	18.36	4555	18.75	486	18.75	486	19	477
18 1/2	19.16	4788	18.87	4680	19.25	499	19.25	499	19.5	490
19	19.67	4914	19.38	4805	19.75	512	19.75	512	20	502
19 1/2	20.18	5040	19.89	4930	20.25	525	20.25	525	20.5	515
20	20.69	5166	20.40	5055	20.75	538	20.75	538	21	527
20 1/2	21.20	5292	20.91	5180	21.25	551	21.25	551	21.5	540
21	21.71	5418	21.42	5305	21.75	564	21.75	564	22	552
21 1/2	22.22	5544	21.93	5430	22.25	577	22.25	577	22.5	565
22	22.73	5670	22.44	5555	22.75	590	22.75	590	23	577
22 1/2	23.24	5796	22.95	5680	23.25	603	23.25	603	23.5	590
23	23.75	5922	23.46	5805	23.75	616	23.75	616	24	602
23 1/2	24.26	6048	23.97	5930	24.25	629	24.25	629	24.5	615
24	24.77	6174	24.48	6055	24.75	642	24.75	642	25	627
24 1/2	25.28	6300	24.99	6180	25.25	655	25.25	655	25.5	640
25	25.79	6426	25.50	6305	25.75	668	25.75	668	26	652
25 1/2	26.30	6552	26.01	6430	26.25	681	26.25	681	26.5	665
26	26.81	6678	26.52	6555	26.75	694	26.75	694	27	677
26 1/2	27.32	6804	27.03	6680	27.25	707	27.25	707	27.5	690
27	27.83	6930	27.54	6805	27.75	720	27.75	720	28	702
27 1/2	28.34	7056	28.05	6930	28.25	733	28.25	733	28.5	715
28	28.85	7182	28.56	7055	28.75	746	28.75	746	29	727
28 1/2	29.36	7308	29.07	7180	29.25	759	29.25	759	29.5	740
29	29.87	7434	29.58	7305	29.75	772	29.75	772	30	752
29 1/2	30.38	7560	30.09	7430	30.25	785	30.25	785	30.5	765
30	30.89	7686	30.60	7555	30.75	798	30.75	798	31	777
30 1/2	31.40	7812	31.11	7680	31.25	811	31.25	811	31.5	790
31	31.91	7938	31.62	7805	31.75	824	31.75	824	32	802
31 1/2	32.42	8064	32.13	7930	32.25	837	32.25	837	32.5	815
32	32.93	8190	32.64	8055	32.75	850	32.75	850	33	827
32 1/2	33.44	8316	33.15	8180	33.25	863	33.25	863	33.5	840
33	33.95	8442	33.66	8305	33.75	876	33.75	876	34	852
33 1/2	34.46	8568	34.17	8430	34.25	889	34.25	889	34.5	865
34	34.97	8694	34.68	8555	34.75	902	34.75	902	35	877
34 1/2	35.48	8820	35.19	8680	35.25	915	35.25	915	35.5	890
35	35.99	8946	35.70	8805	35.75	928	35.75	928	36	902
35 1/2	36.50	9072	36.21	8930	36.25	941	36.25	941	36.5	915
36	37.01	9198	36.72	9055	36.75	954	36.75	954	37	927
36 1/2	37.52	9324	37.23	9180	37.25	967	37.25	967	37.5	940
37	38.03	9450	37.74	9305	37.75	980	37.75	980	38	952
37 1/2	38.54	9576	38.25	9430	38.25	993	38.25	993	38.5	965
38	39.05	9702	38.76	9555	38.75	1006	38.75	1006	39	977
38 1/2	39.56	9828	39.27	9680	39.25	1019	39.25	1019	39.5	990
39	40.07	9954	39.78	9805	39.75	1032	39.75	1032	40	1002
39 1/2	40.58	10080	40.29	9930	40.25	1045	40.25	1045	40.5	1015
40	41.09	10206	40.80	10055	40.75	1058	40.75	1058	41	1027
40 1/2	41.60	10332	41.31	10180	41.25	1071	41.25	1071	41.5	1040
41	42.11	10458	41.82	10305	41.75	1084	41.75	1084	42	1052
41 1/2	42.62	10584	42.33	10430	42.25	1097	42.25	1097	42.5	1065
42	43.13	10710	42.84	10555	42.75	1110	42.75	1110	43	1077
42 1/2	43.64	10836	43.35	10680	43.25	1123	43.25	1123	43.5	1090
43	44.15	10962	43.86	10805	43.75	1136	43.75	1136	44	1102
43 1/2	44.66	11088	44.37	10930	44.25	1149	44.25	1149	44.5	1115
44	45.17	11214	44.88	11055	44.75	1162	44.75	1162	45	1127
44 1/2	45.68	11340	45.39	11180	45.25	1175	45.25	1175	45.5	1140
45	46.19	11466	45.90	11305	45.75	1188	45.75	1188	46	1152
45 1/2	46.70	11592	46.41	11430	46.25	1201	46.25	1201	46.5	1165
46	47.21	11718	46.92	11555	46.75	1214	46.75	1214	47	1177
46 1/2	47.72	11844	47.43	11680	47.25	1227	47.25	1227	47.5	1190
47	48.23	11970	47.94	11805	47.75	1240	47.75	1240	48	1202
47 1/2	48.74	12096	48.45	11930	48.25	1253	48.25	1253	48.5	1215
48	49.25	12222	48.96	12055	48.75	1266	48.75	1266	49	1227
48 1/2	49.76	12348	49.47	12180	49.25	1279	49.25	1279	49.5	1240
49	50.27	12474	49.98	12305	49.75	1292	49.75	1292	50	1252
49 1/2	50.78	12600	50.49	12430	50.25	1305	50.25	1305	50.5	1265
50	51.29	12726	51.00	12555	50.75	1318	50.75	1318	51	1277
50 1/2	51.80	12852	51.51	12680	51.25	1331	51.25	1331	51.5	1290
51	52.31	12978	52.02	12805	51.75	1344	51.75	1344	52	1302
51 1/2	52.82	13104	52.53	12930	52.25	1357	52.25	1357	52.5	1315
52	53.33	13230	53.04	13055	52.75	1370	52.75	1370	53	1327
52 1/2	53.84	13356	53.55	13180	53.25	1383	53.25	1383	53.5	1340
53	54.35	13482	54.06	13305	53.75	1396	53.75	1396	54	1352
53 1/2	54.86	13608	54.57	13430	54.25	1409	54.25	1409	54.5	1365
54	55.37	13734	55.08	13555	54.75	1422	54.75	1422	55	1377
54 1/2	55.88	13860	55.59	13680	55.25	1435	55.25	1435	55.5	1390
55	56.39	13986	56.10	13805	55.75	1448	55.75	1448	56	1402
55 1/2	56.90	14112	56.61	13930	56.25	1461	56.25	1461	56.5	1415
56	57.41	14238	57.12	14055	56.75	1474	56.75	1474	57	1427
56 1/2	57.92	14364	57.63	14180	57.25	1487	57.25	1487	57.5	1440
57	58.43	14490	58.14	14305	57.75	1500	57.75	1500	58	1452
57 1/2	58.94	14616	58.65	14430	58.25	1513	58.25	1513	58.5	1465
58	59.45	14742	59.16	14555	58.75	1526	58.75	1526	59	1477
58 1/2	59.96	14868								

【TECHNICAL DATA】

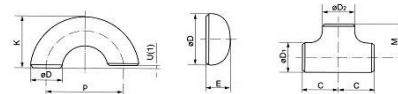
Steel Butt-Welding Pipe Fittings(JIS) 90° & 45° Elbows



Nominal Pipe Size(NPS)		Outside Diameter D		Center-to-End (90° Elbow)(F)		Center-to-End (45° Elbow)(H)	
A	B	D		Long	Short	Long	Short
15	1/2	21.7	38.1	-	15.9	-	-
20	3/4	27.2	38.1	-	15.9	-	-
25	1	34.0	38.1	25.4	15.9	10.5	-
32	1 1/4	42.7	47.6	31.8	19.7	13.2	-
40	1 1/2	48.6	57.2	38.1	23.7	15.9	-
50	2	60.5	76.2	50.8	31.6	21.0	-
65	2 1/2	76.3	95.3	63.5	39.5	26.3	-
80	3	89.1	114.3	76.2	47.3	31.6	-
90	3 1/2	101.6	133.4	88.9	55.3	36.8	-
100	4	114.3	152.4	101.6	63.1	42.1	-
125	5	139.8	190.5	127.0	78.9	52.6	-
150	6	165.2	228.6	152.4	94.7	63.1	-
200	8	216.3	304.8	203.2	126.3	84.2	-
250	10	267.4	381.0	254.0	157.8	105.2	-
300	12	318.5	457.2	304.8	189.4	126.3	-
350	14	355.6	533.4	355.6	220.9	147.3	-
400	16	406.4	609.6	406.4	252.5	168.4	-
450	18	457.2	685.8	457.2	284.1	189.4	-
500	20	508.0	762.0	508.0	315.6	210.4	-
550	22	558.8	838.2	558.8	347.2	231.5	-
600	24	609.6	914.4	609.6	378.7	252.5	-
650	26	660.4	990.6	660.4	410.3	273.6	-
700	28	711.2	1066.8	711.2	441.9	294.6	-
750	30	762.0	1143.0	762.0	473.4	315.7	-
800	32	812.8	1219.2	812.8	505.0	336.7	-
850	34	863.6	1295.4	863.6	536.6	357.7	-
900	36	914.4	1371.6	914.4	568.1	378.8	-
950	38	965.2	1447.8	965.2	599.7	399.8	-
1000	40	1016.0	1524.0	1016.0	631.2	420.9	-
1050	42	1066.8	1600.2	1066.8	662.8	441.9	-
1100	44	1117.6	1676.4	1117.6	694.4	463.0	-
1150	46	1168.4	1752.6	1168.4	725.9	484.0	-
2000	48	1219.2	1828.8	1219.2	757.5	505.1	-

SHENG TIAN PIPE FITTINGS SHENG TIAN PIPE FITTINGS SHENG TIAN PIPE FITTINGS

Steel Butt-Welding Pipe Fittings(JIS) 180° Elbows,Caps,&Tees

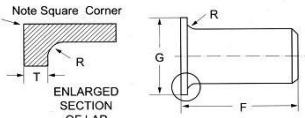


Nominal Pipe Size(NPS)		Outside Diameter D		Center-to-End (180° Elbow)(P)		End-to-End (Cap)(Q)		Center-to-End (Tee)(M)	
A	B	D		Long	Short	Long	Short	Long	Short
15	1/2	21.7	38.1	76.2	-	48.0	-	25.4	25.4
20	3/4	27.2	38.1	76.2	-	51.7	-	25.4	25.4
25	1	34.0	38.1	76.2	50.8	55.1	42.4	38.1	38.1
32	1 1/4	42.7	47.6	95.2	63.0	69.0	53.2	47.6	47.6
40	1 1/2	48.6	57.2	114.4	78.2	81.5	62.4	57.2	57.2
50	2	60.5	76.2	152.4	101.6	108.5	81.1	76.2	76.2
65	2 1/2	76.3	95.3	190.6	127.0	133.5	101.7	95.3	95.3
80	3	89.1	114.3	228.6	152.4	158.9	120.8	114.3	114.3
90	3 1/2	101.6	133.4	266.8	177.8	184.2	139.7	133.4	133.4
100	4	114.3	152.4	304.8	203.2	209.9	158.8	152.4	152.4
125	5	139.8	190.5	381.0	254.0	260.4	198.9	190.5	190.5
150	6	165.2	228.6	457.2	304.8	311.2	235.0	228.6	228.6
200	8	216.3	304.8	609.6	406.4	413.0	311.4	304.8	304.8
250	10	267.4	381.0	762.0	508.0	514.7	387.7	381.0	381.0
300	12	318.5	457.2	914.4	609.6	615.5	464.1	457.2	457.2
350	14	355.6	533.4	1066.8	711.2	711.2	533.4	533.4	533.4
400	16	406.4	609.6	1219.2	812.8	812.8	609.6	609.6	609.6
450	18	457.2	685.8	1371.6	914.4	914.4	685.8	685.8	685.8
500	20	508.0	762.0	1524.0	1016.0	1016.0	762.0	762.0	762.0
550	22	558.8	838.2	-	-	-	-	-	-
600	24	609.6	914.4	-	-	-	-	-	-
650	26	660.4	990.6	-	-	-	-	-	-
700	28	711.2	1066.8	-	-	-	-	-	-
750	30	762.0	1143.0	-	-	-	-	-	-
800	32	812.8	1219.2	-	-	-	-	-	-
850	34	863.6	1295.4	-	-	-	-	-	-
900	36	914.4	1371.6	-	-	-	-	-	-
950	38	965.2	1447.8	-	-	-	-	-	-
1000	40	1016.0	1524.0	-	-	-	-	-	-
1050	42	1066.8	1600.2	-	-	-	-	-	-
1100	44	1117.6	1676.4	-	-	-	-	-	-
1150	46	1168.4	1752.6	-	-	-	-	-	-
1200	48	1219.2	1828.8	-	-	-	-	-	-

NOTE:
(1) For alignment of the end faces U see the table on page 38.
(2) Only 90°P is applicable to the dimension E.

【TECHNICAL DATA】

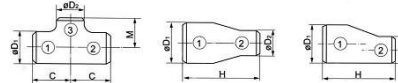
Steel Butt-Welding Pipe Fittings(JIS) Lap Joint Stub Ends



Nominal Pipe Size(NPS)		Outside Diameter D		Diameter of Lap(G)		Length(F)		Radius of Fillet(R)	
A	B	D		5K	10K	JIS	JPI	JIS	JPI
15	1/2	21.7	44	51	35	30	50	3	3.2
20	3/4	27.2	49	56	43	30	50	3	3.2
25	1	34.0	59	67	51	50	50	3	3.2
32	1 1/4	42.7	70	76	64	50	50	4	4.8
40	1 1/2	48.6	75	81	73	50	50	4	6.4
50	2	60.5	85	96	92	50	65	4	7.9
65	2 1/2	76.3	110	116	106	50	65	5	7.9
80	3	89.1	121	126	127	50	65	5	9.5
90	3 1/2	101.6	141	151	157	50	75	5	11.1
100	4	114.3	161	171	177	50	75	5	11.1
125	5	139.8	176	182	188	50	75	6	11.1
150	6	165.2	206	212	216	50	80	6	12.7
200	8	216.3	252	262	270	65	100	6	12.7
250	10	267.4	317	324	324	65	125	6	12.7
300	12	318.5	360	368	381	65	150	8	12.7
350	14	355.6	403	413	-	150	-	8	-
400	16	406.4	463	473	-	150	-	8	-
450	18	457.2	523	530	-	150	-	8	-
500	20	508.0	573	585	-	150	-	8	-
550	22	558.8	630	640	-	150	-	8	-
600	24	609.6	680	690	-	150	-	8	-

SHENG TIAN PIPE FITTINGS SHENG TIAN PIPE FITTINGS SHENG TIAN PIPE FITTINGS

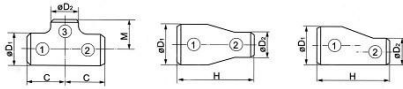
Steel Butt-Welding Pipe Fittings(JIS) Reducing Tees and Concentric & Eccentric Reducers



AS2311							Unit:mm
Nominal Pipe Size(NPS)		Outside Diameter		Reducing Tees		Reducers	
				Center-to-center		End-to-end	
A	B	D ₁	D ₂	C	M	H	
20X15	1/2 X 3/4	27.2	21.7	28.8	28.8	38.1	
25X20	3/4 X 1	34.0	27.2	35.1	35.1	44.4	
25X15	3/4 X 3/4	34.0	21.7	38.1	38.1	50.8	
32X25	1 X 3/4	42.7	34.0	47.6	47.6	50.8	
32X20	1 X 1	42.7	27.2	47.6	47.6	50.8	
32X15	1 X 3/4	42.7	21.7	47.6	47.6	50.8	
40X32	1 1/4 X 1 1/4	48.6	42.7	57.2	57.2	63.5	
40X25	1 1/4 X 1	48.6	34.0	57.2	57.2	63.5	
40X20	1 1/4 X 3/4	48.6	27.2	57.2	57.2	63.5	
40X15	1 1/4 X 3/4	48.6	21.7	57.2	57.2	63.5	
50X40	2 X 1 1/4	60.5	48.6	63.5	63.5	76.2	
50X32	2 X 1 1/4	60.5	42.7	63.5	63.5	76.2	
50X25	2 X 1	60.5	34.0	63.5	63.5	76.2	
50X15	2 X 3/4	60.5	27.2	63.5	63.5	76.2	
50X15	2 X 3/4	60.5	21.7	63.5	*	76.2	
65X50	2 1/2 X 2	76.3	60.5	76.2	69.9	88.9	
65X40	2 1/2 X 1 1/4	76.3	48.6	76.2	66.7	88.9	
65X32	2 1/2 X 1 1/4	76.3	42.7	76.2	66.7	88.9	
65X25	2 1/2 X 1	76.3	34.0	76.2	66.7	88.9	
65X20	2 1/2 X 3/4	76.3	27.2	76.2	*	88.9	
65X15	2 1/2 X 3/4	76.3	21.7	76.2	*	88.9	
80X65	3 X 2 1/2	89.1	76.3	85.7	82.6	88.9	
80X50	3 X 2	89.1	60.5	85.7	76.2	88.9	
80X40	3 X 1 1/4	89.1	48.6	85.7	73.0	88.9	
80X32	3 X 1 1/4	89.1	42.7	85.7	69.9	88.9	
80X25	3 X 1	89.1	34.0	85.7	*	88.9	
80X20	3 X 3/4	89.1	27.2	85.7	*	88.9	
80X15	3 X 3/4	89.1	21.7	85.7	*	88.9	
90X80	3 1/2 X 3	101.6	89.1	95.3	92.1	101.6	
90X65	3 1/2 X 2 1/2	101.6	76.3	95.3	88.9	101.6	
90X50	3 1/2 X 2	101.6	60.5	95.3	82.6	101.6	
90X40	3 1/2 X 1 1/4	101.6	48.6	95.3	79.4	101.6	
90X32	3 1/2 X 1 1/4	101.6	42.7	95.3	76.2	101.6	
100X90	4 X 3 1/2	114.3	101.6	104.8	101.6	101.6	
100X80	4 X 3	114.3	89.1	104.8	98.4	101.6	
100X65	4 X 2 1/2	114.3	76.3	104.8	95.3	101.6	
100X50	4 X 2	114.3	60.5	104.8	91.0	101.6	
100X40	4 X 1 1/4	114.3	48.6	104.8	87.7	101.6	
100X32	4 X 1 1/4	114.3	42.7	104.8	84.0	101.6	
100X25	4 X 1	114.3	34.0	104.8	*	101.6	

【TECHNICAL DATA】

Steel Butt-Welding Pipe Fittings(JIS) Reducing Tees and Concentric/Eccentric Reducers

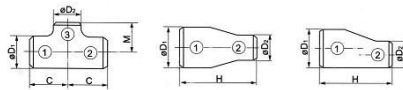


Nominal Pipe Size(NPS)		Outside Diameter			Reducing Tees Center-to-End			Reducers End-to-End
A	B	D ₁	D ₂	C	M	H		
125X100	5X4	139.8	114.3	123.8	117.5	127.0		
125X80	5X3	139.8	101.6	123.8	114.3	127.0		
125X60	5X2	139.8	89.1	123.8	111.1	127.0		
125X40	5X1	139.8	76.3	123.8	108.0	127.0		
125X20	5X1/2	139.8	60.5	123.8	104.8	127.0		
125X10	5X1/4	139.8	48.6	123.8	*	127.0		
125X5	5X1/8	139.8	42.7	123.8	*	127.0		
150X125	6X5	165.2	139.8	142.9	136.5	139.7		
150X100	6X4	165.2	114.3	142.9	130.2	139.7		
150X80	6X3	165.2	101.6	142.9	127.0	139.7		
150X60	6X2	165.2	89.1	142.9	123.8	139.7		
150X40	6X1	165.2	76.3	142.9	120.7	139.7		
150X20	6X1/2	165.2	60.5	142.9	*	139.7		
150X10	6X1/4	165.2	48.6	142.9	*	139.7		
200X150	8X6	219.3	165.2	177.8	168.3	152.4		
200X125	8X5	219.3	139.8	177.8	161.0	152.4		
200X100	8X4	219.3	114.3	177.8	155.6	152.4		
200X80	8X3	219.3	101.6	177.8	152.4	152.4		
200X60	8X2	219.3	89.1	177.8	152.4	152.4		
250X200	10X8	267.4	219.3	215.9	203.2	177.8		
250X150	10X6	267.4	165.2	215.9	193.7	177.8		
250X125	10X5	267.4	139.8	215.9	180.5	177.8		
250X100	10X4	267.4	114.3	215.9	184.2	177.8		
250X80	10X3	267.4	89.1	215.9	*	177.8		
300X250	12X10	319.5	267.4	254.0	241.3	203.2		
300X200	12X8	319.5	219.3	254.0	238.0	203.2		
300X150	12X6	319.5	165.2	254.0	231.1	203.2		
300X125	12X5	319.5	139.8	254.0	215.9	203.2		
300X100	12X4	319.5	114.3	254.0	*	203.2		
350X300	14X12	355.6	319.5	279.4	269.0	330.2		
350X250	14X10	355.6	267.4	279.4	257.2	330.2		
350X200	14X8	355.6	219.3	279.4	247.7	330.2		
350X150	14X6	355.6	165.2	279.4	238.1	330.2		
350X125	14X5	355.6	139.8	279.4	*	330.2		
400X350	16X14	408.4	355.6	304.8	304.8	355.6		
400X300	16X12	408.4	319.5	304.8	295.3	355.6		
400X250	16X10	408.4	267.4	304.8	282.6	355.6		
400X200	16X8	408.4	219.3	304.8	273.1	355.6		
400X150	16X6	408.4	165.2	304.8	263.5	355.6		

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【TECHNICAL DATA】

Steel Butt-Welding Pipe Fittings(JIS) Reducing Tees and Concentric/Eccentric Reducers

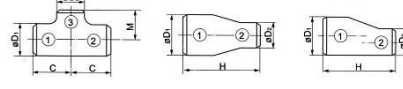


Nominal Pipe Size(NPS)		Outside Diameter			Reducing Tees Center-to-End			Reducers End-to-End
A	B	D ₁	D ₂	C	M	H		
850X800	34X32	863.6	812.8	635.0	622.3	609.6		
850X750	34X30	863.6	762.0	635.0	609.6	609.6		
850X700	34X28	863.6	711.2	635.0	596.9	609.6		
850X650	34X26	863.6	660.4	635.0	596.9	609.6		
900X850	36X34	914.4	863.6	673.1	660.4	609.6		
900X800	36X32	914.4	812.8	673.1	647.7	609.6		
900X750	36X30	914.4	762.0	673.1	635.0	609.6		
900X700	36X28	914.4	711.2	673.1	622.3	609.6		
950X900	38X36	965.2	914.4	711.2	711.2	609.6		
950X850	38X34	965.2	863.6	711.2	696.5	609.6		
950X800	38X32	965.2	812.8	711.2	686.8	609.6		
950X750	38X30	965.2	762.0	711.2	673.0	609.6		
1000X950	40X38	1016.0	965.2	749.3	749.3	609.6		
1000X900	40X36	1016.0	914.4	749.3	736.6	609.6		
1000X850	40X34	1016.0	863.6	749.3	723.9	609.6		
1000X800	40X32	1016.0	812.8	749.3	711.2	609.6		
1050X1000	42X40	1066.8	1016.0	762.0	711.2	609.6		
1050X950	42X38	1066.8	965.2	762.0	711.2	609.6		
1050X900	42X36	1066.8	914.4	762.0	711.2	609.6		
1050X850	42X34	1066.8	863.6	762.0	711.2	609.6		
1100X1050	44X42	1117.6	1066.8	812.8	762.0	609.6		
1100X1000	44X40	1117.6	1016.0	812.8	749.3	609.6		
1100X950	44X38	1117.6	965.2	812.8	736.6	609.6		
1100X900	44X36	1117.6	914.4	812.8	723.9	609.6		
1150X1100	46X44	1168.4	1117.6	850.9	811.1	711.2		
1150X1050	46X42	1168.4	1066.8	850.9	787.4	711.2		
1150X1000	46X40	1168.4	1016.0	850.9	774.7	711.2		
1150X950	46X38	1168.4	965.2	850.9	762.0	711.2		
1200X1150	48X46	1219.2	1168.4	899.0	836.2	711.2		
1200X1100	48X44	1219.2	1117.6	899.0	836.2	711.2		
1200X1050	48X42	1219.2	1066.8	899.0	812.8	711.2		
1200X1000	48X40	1219.2	1016.0	899.0	812.8	711.2		

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SHENG TIAN PIPE FITTINGS SHENG TIAN PIPE FITTINGS

Steel Butt-Welding Pipe Fittings(JIS) Reducing Tees and Concentric/Eccentric Reducers

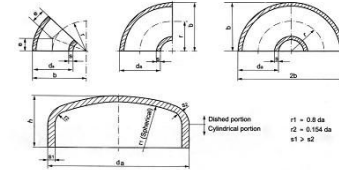


Nominal Pipe Size(NPS)		Outside Diameter			Reducing Tees Center-to-End			Reducers End-to-End
A	B	D ₁	D ₂	C	M	H		
450X400	18X16	457.2	408.4	342.9	330.2	381.0		
450X350	18X14	457.2	355.6	342.9	330.2	381.0		
450X300	18X12	457.2	319.5	342.9	330.2	381.0		
450X250	18X10	457.2	267.4	342.9	308.0	381.0		
450X200	18X8	457.2	219.3	342.9	288.0	381.0		
500X450	20X18	508.0	457.2	381.0	368.3	508.0		
500X400	20X16	508.0	408.4	381.0	355.6	508.0		
500X350	20X14	508.0	355.6	381.0	355.6	508.0		
500X300	20X12	508.0	319.5	381.0	340.1	508.0		
500X250	20X10	508.0	267.4	381.0	333.4	508.0		
500X200	20X8	508.0	219.3	381.0	323.9	508.0		
550X500	22X20	558.8	508.0	419.1	408.4	558.8		
550X450	22X18	558.8	457.2	419.1	393.7	558.8		
550X400	22X16	558.8	408.4	419.1	381.0	558.8		
550X350	22X14	558.8	355.6	419.1	381.0	558.8		
600X600	24X24	609.6	558.8	431.8	431.8	609.6		
600X550	24X22	609.6	508.0	431.8	431.8	609.6		
600X500	24X20	609.6	457.2	431.8	419.1	609.6		
600X450	24X18	609.6	408.4	431.8	408.4	609.6		
600X400	24X16	609.6	355.6	431.8	408.4	609.6		
600X350	24X14	609.6	308.0	431.8	397.0	609.6		
650X650	26X26	660.4	609.6	457.2	457.2	660.4		
650X600	26X24	660.4	558.8	457.2	457.2	660.4		
650X550	26X22	660.4	508.0	457.2	457.2	660.4		
650X500	26X20	660.4	457.2	457.2	457.2	660.4		
650X450	26X18	660.4	408.4	457.2	457.2	660.4		
700X700	28X28	711.2	660.4	520.7	520.7	700.0		
700X650	28X26	711.2	609.6	520.7	520.7	700.0		
700X600	28X24	711.2	558.8	520.7	520.7	700.0		
700X550	28X22	711.2	508.0	520.7	520.7	700.0		
750X750	30X30	762.0	711.2	558.8	558.8	750.0		
750X700	30X28	762.0	660.4	558.8	558.8	750.0		
750X650	30X26	762.0	609.6	558.8	558.8	750.0		
750X600	30X24	762.0	558.8	558.8	558.8	750.0		
750X550	30X22	762.0	508.0	558.8	558.8	750.0		
800X800	32X32	812.8	762.0	596.9	596.9	800.0		
800X750	32X30	812.8	711.2	596.9	596.9	800.0		
800X700	32X28	812.8	660.4	596.9	596.9	800.0		
800X650	32X26	812.8	609.6	596.9	596.9	800.0		
800X600	32X24	812.8	558.8	596.9	596.9	800.0		

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SHENG TIAN PIPE FITTINGS SHENG TIAN PIPE FITTINGS

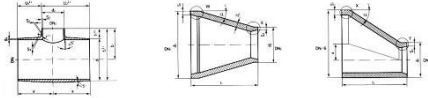
Steel Butt-Welding Pipe Fittings(DIN) Elbows, Bends, and Caps



EN 10305 2017										Unit:mm	
Nominal size DN	Outside Diameter D ₁	Elbows and Bends								Caps H	
		Type3-3D		Type3-5D		Type3-5D		Type3-5D			
		r	a	r	b	e	r	b	e		
15	21.3	26.0	30	12	42.5	53	16	25			
20	26.9	33.0	40	12	57.5	71	24	25			
25	33.7	38.0	56	16	72.5	90	30	38			
32	42.4	48.0	69	20	92.5	114	38	38			
40	48.3	57.0	82	24	107.5	132	45	38			
50	60.3	76	108	32	135	165	56	38			
65	76.1	95	133	36	175	213	75	38			
80	88.9	114	159	47	205	250	85	51			
100	114.3	152	210	63	270	327	112	64			
125	139.7	190	260	79	330	400	137	76			
150	168.3	229	313	95	380	474	162	89			
200	219.1	305	414	126	503	620	211	102			
250	273.1	381	518	158	630	767	260	123			
300	325.3	457	619	189	775	937	321	152			
350	355.6	533	711	221	850	1028	352	165			
400	406.4	610	813	253	960	1173	402	178			
450	457	684	914	284	1122	1356	461	203			
500	508	762	1016	316	1245	1500	516	229			
600	610	914	1219	379	1525	1830	616	267			
700	711	1067	1422	442	1731	2133	731	287			
800	813	1219	1626	505	2023	2426	812	287			
900	914	1372	1828	568	2285	2742	947	287			
1000	1016	1524	2032	631	2540	3048	1052	305			
1200	1200	1830	2440	758	3050	3660	1263	343			

【TECHNICAL DATA】

Steel Butt-welding Pipe Fittings(DIN) Tees and Concentric & Eccentric Reducers

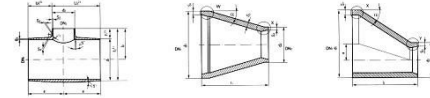


DIN 2615 DIN 2616

Unit:mm

Nominal Size DN1	Outside Diameter d1	Nominal Size DN2	Outside Diameter d2	Tees			Reducers
				a	b	fl	
15	21.3	15	21.3	25	25	88	
20	26.9	20	26.9	29	29	38	
25	33.7	25	33.7	30	30	50	
32	42.4	32	42.4	48	48	50	
40	48.3	40	48.3	57	57	64	
50	60.3	50	60.3	64	64	78	
65	76.1	65	76.1	76	76	90	
80	88.9	80	88.9	86	86	90	
100	114.3	100	114.3	105	105	100	
125	139.7	125	139.7	124	124	127	
150	168.3	150	168.3	143	143	140	
200	219.1	200	219.1	178	178	178	
250	273	250	273	216	216	216	
300	323.9	300	323.9	254	254	254	
350	355.6	350	355.6	279	279	330	
400	406.4	400	406.4	305	305	355	
450	457	450	457	343	343	381	
500	508	500	508	381	381	427	
600	609.6	600	609.6	457	457	508	
700	711	700	711	521	521	610	
800	813	800	813	597	597	688	
900	914	900	914	673	673	762	
1000	1016	1000	1016	749	749	838	
1200	1219	1200	1219	889	889	984	
1400	1414	1400	1414	1016	1016	1118	
1600	1616	1600	1616	1143	1143	1270	
1800	1814	1800	1814	1270	1270	1414	
2000	2013	2000	2013	1397	1397	1549	

Steel Butt-welding Pipe Fittings (DIN) Tees and Concentric & Eccentric Reducers



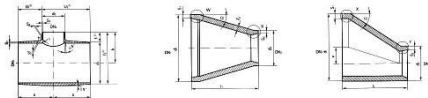
DIN 2615 DIN 2616

Unit:mm

Nominal Size DN1	Outside Diameter d1	Nominal Size DN2	Outside Diameter d2	Tees			Reducers
				a	b	fl	
150	168.3	150	168.3	114.3	114.3	140	
200	219.1	200	219.1	178	178	178	
250	273	250	273	216	216	216	
300	323.9	300	323.9	254	254	254	
350	355.6	350	355.6	279	279	330	
400	406.4	400	406.4	305	305	355	
450	457	450	457	343	343	381	
500	508	500	508	381	381	427	
600	609.6	600	609.6	457	457	508	
700	711	700	711	521	521	610	
800	813	800	813	597	597	688	
900	914	900	914	673	673	762	
1000	1016	1000	1016	749	749	838	
1200	1219	1200	1219	889	889	984	
1400	1414	1400	1414	1016	1016	1118	
1600	1616	1600	1616	1143	1143	1270	
1800	1814	1800	1814	1270	1270	1414	
2000	2013	2000	2013	1397	1397	1549	

【TECHNICAL DATA】

Steel Butt-welding Pipe Fittings(DIN) Tees and Concentric & Eccentric Reducers



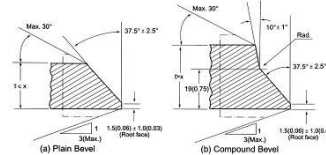
DIN 2615 DIN 2616

Unit:mm

Nominal Size DN1	Outside Diameter d1	Nominal Size DN2	Outside Diameter d2	Tees			Reducers
				a	b	fl	
500	508	200	219.1	381	324	508	
600	610	300	323.9	432	432	508	
600	610	400	457	432	419	508	
600	610	500	483	432	406	508	
600	610	600	609.6	432	397	508	
700	711	300	323.9	521	521	610	
700	711	400	457	521	470	610	
700	711	500	483	521	457	610	
700	711	600	609.6	521	457	610	
800	813	300	323.9	597	597	688	
800	813	400	457	597	521	610	
800	813	500	483	597	508	610	
800	813	600	609.6	597	508	610	
900	914	300	323.9	673	673	762	
900	914	400	457	673	622	610	
900	914	500	483	673	610	610	
900	914	600	609.6	673	584	610	
1000	1016	300	323.9	749	749	838	
1000	1016	400	457	749	660	610	
1000	1016	500	483	749	635	610	
1000	1016	600	609.6	749	622	610	
1200	1219	300	323.9	889	889	984	
1200	1219	400	457	889	813	711	
1200	1219	500	483	889	787	711	
1200	1219	600	609.6	889	762	711	
1400	1414	300	323.9	1016	1016	1118	
1400	1414	400	457	1016	914	838	
1400	1414	500	483	1016	889	838	
1400	1414	600	609.6	1016	813	762	
1600	1616	300	323.9	1143	1143	1270	
1600	1616	400	457	1143	1016	1118	
1600	1616	500	483	1143	984	1118	
1600	1616	600	609.6	1143	914	1067	

SHENG TIAN PIPE FITTINGS SHENG TIAN PIPE FITTINGS

Welding End Preparation ASME B16.9, B16.28



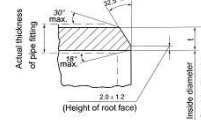
Welding Bevels and Root Face

Nominal Wall Thickness, t	End Preparation
Less than 1/2 (Note)	Cut square or slightly chamfer, at manufacturer's option. (Not illustrated.)
1/2 to 22 (0.889)	Plain bevel as in sketch (a) above.
More than 22 (0.889)	Compound bevel as in sketch (b) above.

GENERAL NOTES: Dimensions in parentheses are in inches. Others are in Millimeters.
NOTE: X=5(0.15) for carbon steel or ferritic alloy steel
X=3(0.12) for austenitic alloy steel

JIS B2311

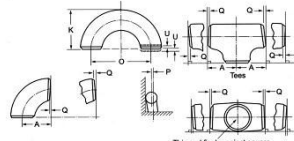
Unit:mm



Shape and Dimensions of Bevel End

【TECHNICAL DATA】

Dimensional Tolerances(ASME)



This end flush against square

ASME B16.9, B16.28

Pipe Size	All Fittings				90° Elbows and Tees		Reducers and Lap-Joint Stub Ends		Caps	
	Outside Diameter at Bore (A)		Inside Diameter at End (I)		Center-to-End Dimension A, B, C, M		Overall Length, F, H		Overall Length, E	
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
1/2-2 1/2	+0.06 -0.03	+1.6 -0.8	+0.06	+0.3	Not Less Than 87.5% of Nominal Thickness	±0.06	±0.06	±0.12	±3	
3-24	+0.06	+1.6	+0.06	+1.6						
4	+0.05	+2.4	+0.06	+1.6						
5-8	+0.06	+1.6	+0.06	+1.6						
10-18	+0.16	+4.0	+0.12	+3.2						
20-24	+0.25	+6.4	+0.19	+4.8	±0.12	±3	±0.19	±5	±0.38	±10
26-30	+0.19	+4.8								
32-48										

Pipe Size	Lap-Joint Stub Ends (Z)				180° Return Bends		Alignment of Ends U	
	Outside Diameter of Lap (G)		Lap Thickness (T)		Center-to-Back Face Dimension (K)		Alignment of Ends U	
	IN	MM	IN	MM	IN	MM	IN	MM
1/2-2 1/2	+0.06	+1.6	+0.06	+1.6	+0.06	+1.6	+0.06	+1.6
3-24	+0.06	+1.6	+0.06	+1.6	+0.06	+1.6	+0.06	+1.6
4	+0.03	-1	-0	-0	+0.06	+1.6	+0.06	+1.6
5-8	+0.06	+1.6	+0.06	+1.6	+0.06	+1.6	+0.06	+1.6
10-18	+0.16	+4.0	+0.12	+3.2	+0.06	+1.6	+0.06	+1.6
20-24	+0.25	+6.4	+0.19	+4.8	+0.12	+3	+0.19	+4.8

Pipe Size	Outside Diameter (A)		Outside Diameter (I)	
	IN	MM	IN	MM
	IN	MM	IN	MM
1/2-2 1/2	+0.06	+1.6	+0.06	+1.6
3-24	+0.06	+1.6	+0.06	+1.6
4	+0.03	-1	-0	-0
5-8	+0.06	+1.6	+0.06	+1.6
10-18	+0.16	+4.0	+0.12	+3.2
20-24	+0.25	+6.4	+0.19	+4.8

NOTES:

- (1) Out-of-round is the sum of absolute values of plus and minus tolerances.
- (2) Outside diameter of barrel see the table on page 14.

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SHENG TIAN PIPE FITTINGS SHENG TIAN PIPE FITTINGS

Dimensional Tolerances(MSS)

MSS39-43

Nominal Pipe Size	All Fittings		90° Elbows 45° Elbows Tees	Reducers Lap-Joint Stub Ends	180° Returns		Caps		Lap-Joint Stub Ends	
	Outside Diameter at Bore (End U)	Wall Thickness	Center- to-End A-B-C-M	Overall Length F-H	Center- to- Center O	Back- to- Face K	Alignment of Ends U	Overall Length E	Flare(B) Retain off A	Outside Diameter of Lap G
1/2-1½		Not less than 87.5% of nominal thickness							+0 -0.03 (+0) (-0.8)	
2-3½	±0.03 (±0.8)		±0.06 (±1.6)	±0.25 (±6.4)	±0.03 (±0.8)	±0.12 (±3.2)	+0 -0.03 (+0) (-0.8)			
4				±0.25 (±6.4)						
5-8	+0.06 -0.06 (+1.6) (-1.6)						+0 -0.06 (+0) (-1.6)			
10-18	0.09 -0.03 (±2.4) (-0.8)		±0.09 (±2.4)	±0.38 (±9.6)	±0.38 (±9.6)	±0.06 (±1.6)	±0.25 (±6.4)	+0 -0.06 (+0) (-1.6)		
20-24	+0.12 -0.03 (+3.2) (-0.8)									

GENERAL NOTE:

All dimensions are in inches. Dimensions in brackets are in millimeters for reference only.

NOTES:

- (A) Out of roundness is the vector sum of plus and minus tolerance.
- (B) Flare (B) radius is maximum. See page 17.

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【TECHNICAL DATA】

Dimensional Tolerances(JIS)

JIS B2311

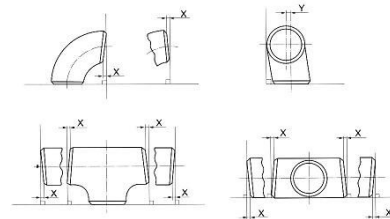
Item	Types of pipe fittings	Nominal diameter							
		A	B	C	D	E	F	G	H
		15-65	80-100	125-200	250-450	500-600	650-750	800-1200	1400-1800
Outside diameter at end	All types of pipe fittings	±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Inside diameter at end face		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Thickness		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Bore angle		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Height of root face		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Dimension from centerline to end face (H, P)	180° elbows	±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Centerline dimension (P)		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Dimension from back to end face (K)		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Alignment of end face (U)		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Overall length (H)		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Dimension from centerline to end face (C, M)	Caps	±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Dimension from back to end face (E)		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Outer peripheral length at end		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Outer peripheral length at end		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Outer peripheral length at end		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0

- Remarks: 1 For the dimensional tolerances for H of reduced tee, the tolerances specified for larger diameter side shall apply.
2 For the galvanized part of white pipe fittings, the above-mentioned tolerance shall be applied before galvanizing.

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SHENG TIAN PIPE FITTINGS SHENG TIAN PIPE FITTINGS

Dimensional Tolerances(JIS)



JIS B2311

Item	Types of pipe fitting	Nominal diameter							
		A	B	C	D	E	F	G	H
		15-100	125-200	250-300	350-400	450-600	650-750	800-1050	1100-1200
Outside diameter at end	All types of pipe fittings	±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Inside diameter at end face		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Thickness		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Bore angle		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Height of root face		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Dimension from centerline to end face (H, P)	180° elbows	±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Centerline dimension (P)		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Dimension from back to end face (K)		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Alignment of end face (U)		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Overall length (H)		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Dimension from centerline to end face (C, M)	Caps	±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Dimension from back to end face (E)		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Outer peripheral length at end		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Outer peripheral length at end		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0
Outer peripheral length at end		±0.3	±0.5	±0.8	±1.0	±1.5	±2.0	±3.0	±4.0

- Remarks: 1 For the tolerances on alignment of reducer and reduced tee, the tolerances specified for larger diameter side shall apply.
2 For the galvanized part of white pipe fittings, the above-mentioned tolerance shall be applied before galvanizing.

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【TECHNICAL DATA】

MATERIAL SPECIFICATIONS FOR BUTT-WELDING FITTINGS(ASTM)

ASTM A234/A234M-00a

Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and High Temperature Service

Grade	Composition, %									
	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	V
WPB(1)(2)(3)(4)	0.30	0.29-1.06	0.050	0.058	0.10	0.40	0.15	0.40	0.40	0.08
WPC(1)(2)(3)(4)	0.35	0.29-1.06	0.050	0.058	0.10	0.40	0.15	0.40	0.40	0.08
WP11CL1	0.05-0.15	0.30-0.80	0.030	0.030	0.55-1.00	0.01-0.02	0.44-0.85	-	-	-
WP11CL2	0.05-0.25	0.30-0.80	0.040	0.040	0.55-1.00	0.60-1.50	0.44-0.85	-	-	-
WP11CL3	-	-	-	-	-	-	-	-	-	-

GENERAL NOTE:

All values are maximum unless otherwise indicated.

NOTES:

(1) P for each reduction of 0.01% below the specified C maximum, an increase of 0.06%.

No above the specified maximum will be permitted, up to a maximum of 1.15%.

(2) The sum of Cu, Ni, Cr, and Mo shall not exceed 1.00%.

(3) The sum of Cr and Ni shall not exceed 0.32%.

(4) The maximum carbon equivalent (C.E.) shall be 0.50, based on heat analysis and the formula C.E.=C+Mn/6+Cr+Mo+V/5+(Ni+Cu)/15.

Tensile Requirements	WPB	WPC, WP11CL2	WP11CL1	WP11CL3
Tensile Strength, min. ksi(kNPa)	60-85 (415-585)	70-95	60-85 (415-585)	75-100 (520-690)
Yield Strength, min. ksi(kPa)	30 (240)	40 (275)	30 (205)	45 (310)

	Wall thickness		Elongation Requirements	
	in	mm	Longitudinal	Transverse
			22	14

Standard round specimen, or small proportional specimen, min. in. in 4D

Rectangular Specimen for wall thickness

0.312 in. (7.9mm) and over, and for all small size tested in full section, min. in. in 20D min.

Rectangular Specimen for wall thickness

less than 0.312 in. (7.9mm) min. in. in 2 in. (50mm) (10.5 in. (12.7mm) wide specimen)

	0.281	7.14	28.5	19
	0.250	6.35	27.0	18
	0.219	5.56	25.5	16
	0.188	4.75	24.0	-
	0.166	3.97	22.5	-
	0.125	3.17	21.0	-
	0.094	2.38	19.5	-
	0.062	1.59	18.0	-

Where the wall thickness lies between two values above, the minimum elongation value is determined by the following equations:

Longitudinal E=48+15.00

Transverse E=32+10.00

E = elongation in 2 in. (50mm), %

t = actual thickness of specimen, in (mm)

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【TECHNICAL DATA】

MILD STEEL PLATE FLANGE DIN

NOMINAL PIPE SIZE		OUTER DIAMETER D (mm)	INTERNAL DIAMETER C (mm)	THICKNESS T (mm)	NO. OF BOLT HOLES	DIAMETER OF BOLT HOLES d (mm)	DIAMETER OF BOLT HOLE D ₁ (mm)	APPROXIMATE WEIGHT (kg)	FLAT FACE BLIND
mm	Inch								
15	1/2	95	22.9	14	4	14	85	0.67	
20	3/4	105	27.8	16	4	14	75	0.94	
25	1	115	34.4	18	4	14	85	1.11	
32	1 1/4	140	43.1	18	4	18	100	1.62	
40	1 1/2	150	49.8	18	4	18	118	1.88	
50	2	165	61.1	18	4	18	125	2.47	
65	2 1/2	185	77.1	18	4	18	145	3.00	
80	3	200	90.3	20	4	18	160	3.78	
100	4	220	115.9	20	8	18	180	4.00	
125	5	250	144.8	22	8	18	210	5.48	
150	6	265	178.5	24	8	22	240	7.15	
200	8	340	221.8	24	8	22	285	9.27	
250	10	385	270.2	28	12	22	300	11.85	
300	12	445	327.8	28	12	22	400	14.85	
350	14	505	389.7	28	16	22	480	20.35	
400	16	565	441.8	32	16	28	515	27.80	
450	18	615	483.3	34	20	28	585	31.85	
500	20	670	513.9	38	20	28	620	41.10	
600	24	790	613.9	42	20	38	720	55.80	



NOMINAL PIPE SIZE		OUTER DIAMETER D (mm)	INTERNAL DIAMETER C (mm)	THICKNESS T (mm)	NO. OF BOLT HOLES	DIAMETER OF BOLT HOLES d (mm)	DIAMETER OF BOLT HOLE D ₁ (mm)	APPROXIMATE WEIGHT (kg)	FLAT FACE BLIND
mm	Inch								
15	1/2	95	22.9	14	4	14	85	0.67	
20	3/4	105	27.8	16	4	14	75	0.93	
25	1	115	34.4	18	4	14	85	1.11	
32	1 1/4	140	43.1	18	4	18	100	1.62	
40	1 1/2	150	49.8	18	4	18	110	1.92	
50	2	165	61.1	18	4	18	125	2.45	
65	2 1/2	185	77.1	18	4	18	145	3.02	
80	3	200	90.3	20	8	18	160	3.81	
100	4	220	115.9	20	8	18	180	4.00	
125	5	250	144.8	22	8	18	210	5.41	
150	6	265	178.5	24	8	22	240	7.01	
200	8	340	221.8	28	12	22	285	9.71	
250	10	405	278.2	28	12	28	355	14.72	
300	12	480	327.8	28	12	28	415	18.90	
350	14	520	359.7	30	16	28	475	24.89	
400	16	580	411.8	32	16	30	525	28.30	
450	18	640	463.3	36	20	30	585	41.82	
500	20	710	513.9	38	20	33	655	53.0	
600	24	840	613.9	42	20	38	775	71.19	

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SHENG TIAN PIPE FITTINGS SHENG TIAN PIPE FITTINGS

Material Specifications for Butt-Welding Fittings (JIS and DIN)

JIS B2311 Steel Butt-Welding Pipe Fittings for Ordinary Use

JIS G3455 Carbon Steel Pipes for Ordinary Piping

JIS G3457 Arc Welded Carbon Steel Pipes

Steel Grade	Chemical Composition %			Tensile Strength N/mm ² Min	Yield Point N/mm ² Min	Elongation % (1)	
	C	P	S			Longitudinal	Transverse
S25	-	0.040	0.040	290	-	30a	25a
P400	0.25	0.040	0.040	400	255	-	18

NOTES:

(1) Values specified for wall thickness 8mm and over. For each 1mm decrease in wall thickness below

8mm, a deduction of 1.5% for both longitudinal and transverse from the values shown above is permitted.

(2) Values not applicable to WPB below 33A.

DIN 1626 Welded Circular Unalloyed Steel Tubes Subject to Special Requirements

DIN 1629 Seamless Circular Unalloyed Steel Tubes Subject to Special Requirements

Steel Grade Symbol	Type of deoxidation	Chemical Composition (cast analysis) %				
		C	Si(1)	Mn	P	S
St 37.0	R	0.17	-	0.040	0.040	0.040
St 37.5	-	0.17	0.10-0.35	0.40-0.60	0.040	0.040

NOTES:

(1) The minimum Si content is allowed to fall below 0.10% when the steel is a minimum-killed or vacuum-deoxidized.

(2) A content in excess of the maximum value stated is permitted if a P content less than the maximum specified by 0.005%.

P per 0.001% N is observed. However the N content shall not exceed a value of 0.012% in the case analysis and 0.014% in the product analysis.

(3) The specified value does not apply if the steel is supplied with the RR (instead of R) type of deoxidation.

R-killed, including semi-killed

RR-killed

Amounts by which the chemical composition in the product sample analysis may deviate from the limiting values applicable to the cast analysis.

Element	St 37.0 Allowable Deviation Amount %	Limits Quoted in Cast Analysis		St 37.5 Allowable Deviation Amount %
		St 37.0	St 37.5	
C	0.02	0.02	0.02	±0.02
Si	-	0.02	0.02	±0.02
Mn	-	0.02	0.02	±0.02
P	0.010	0.010	0.010	±0.010
S	0.010	0.010	0.010	±0.010
N	0.0011	0.0011	0.0011	±0.0011

NOTES:

(1) A content in excess of the maximum value stated is permitted if a P content less than the maximum specified by 0.005%.

P per 0.001% N is observed. However the N content shall not exceed a value of 0.012% in the case analysis and 0.014% in the product analysis (this does not apply to the RR type of deoxidation).

(2) A cast deviation of an element in a sample analysis is permitted to be below the minimum value or only above the maximum value of the range stipulated for the cast analysis, though not both at the same time.

Steel Grade Symbol	Upper Yield Stress ReH _L for Wall Thicknesses in mm		Tensile Strength Rm	Elongation after Fracture A ₅		Impact Strength Transverse
	ReH _L (N/mm ²)	T _{0.2} (N/mm ²)		Longitudinal	Transverse	
St 37.0	235	225	215	350-410	25	28
St 37.5	235	225	215	350-410	25	28

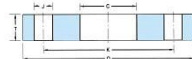
NOTE:

(1) For cold finished tubes in the NER condition, minimum values of tensile strength lower than this value by 10N/mm² is permitted.

SHENG TIAN PIPE FITTINGS SHENG TIAN PIPE FITTINGS

MILD STEEL PLATE FLANGE ANSI

NOMINAL PIPE SIZE		OUTER DIAMETER D (mm)	INTERNAL DIAMETER C (mm)	THICKNESS T (mm)	NO. OF BOLT HOLES	DIAMETER OF BOLT HOLES d (mm)	DIAMETER OF BOLT HOLE D ₁ (mm)	APPROXIMATE WEIGHT (kg)	FLAT FACE BLIND
mm	Inch								
15	1/2	89	22.9	12	4	16	80	0.48	
20	3/4	89	27.7	14	4	16	80	0.66	
25	1	108	34.5	14	4	16	78	0.81	
32	1 1/4	117	43.2	16	4	16	80	1.01	
40	1 1/2	127	48.5	16	4	16	80	1.28	
50	2	152	60.0	16	4	16	107	1.78	
65	2 1/2	178	74.7	18	4	16	107	2.74	
80	3	191	86.7	18	4	16	124	3.27	
100	4	229	118.1	18	8	16	108	4.88	
125	5	254	149.9	22	8	22	216	4.93	
150	6	278	170.7	26	8	22	241	6.98	
200	8	345	221.5	22	8	22	288	8.78	
250	10	486	278.3	24	12	24	302	11.85	
300	12	493	327.1	28	12	24	431	19	
350	14	535	369.2	28	12	28	476	20.97	
400	16	597	419.5	31	16	28	539	33.41	
450	18	635	461.9	34	16	31	677	38.4	
500	20	689	513.1	37	20	31	678	47.8	
600	24	813	615.9	42	20	34	749	66.62	



NOMINAL PIPE SIZE		OUTER DIAMETER D (mm)	INTERNAL DIAMETER C (mm)	THICKNESS T (mm)	NO. OF BOLT HOLES	DIAMETER OF BOLT HOLES d (mm)	DIAMETER OF BOLT HOLE D ₁ (mm)	APPROXIMATE WEIGHT (kg)	FLAT FACE BLIND
mm	Inch								
15	1/2	95	22.2	12	4	15	70	0.57	
20	3/4	100	27.7	14	4	15	75	0.73	
25	1	125	34.5	14	4	15	80	1.17	0.52
32	1 1/4	135	43.2	18	4	19	103	1.48	
40	1 1/2	140	48.1	18	4	19	109	1.58	
50	2	175	54.5	18	8	19	125	2.37	0.81
65	2 1/2	175	77.1	18	8	19	126	2.89	
80	3	200	98.0	20	8	23	138	3.61	
100	4	225	115.4	24	8	23	147	5.25	
125	5	260	141.2	22	8	25	178	8.51	
150	6	305	168.6	24	12	25	207	13.55	
200	8	350	219.0	28	12	27	269	25.82	
250	10	450	289.8	28	12	27	380	47.18	
300	12	480	321.0	30	18	27	448	62.41	
350	14	540	360.1	34	18	27	500	80.23	
400	16	605	405.0	38	18	33	548	121.42	
450	18	675	450.0	43	20	33	605	164.04	
500	20	730	511.0	43	20	33	665	204.23	
600	24	845	610.0	48	24	38	775	355.84	

【TECHNICAL DATA】

MILD STEEL PLATE FLANGE JIS

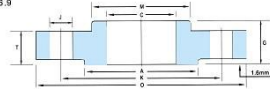
NOMINAL PIPE SIZE mm	INCH	OUTER DIAMETER D (mm)	INTERNAL DIAMETER C (mm)	THICKNESS T (mm)	NO. OF BOLT HOLES	DIAMETER OF BOLT HOLES J (mm)	DIAMETER OF BOLT HOLES K (mm)	APPROXIMATE WEIGHT (kg)
15	1/2	80	72.2	8	4	12	80	0.30
20	3/4	95	77.7	10	4	12	85	0.37
25	1	110	84.5	10	4	12	75	0.45
32	1 1/4	140	115	12	4	15	80	0.78
40	1 1/2	150	120	12	4	15	85	0.85
50	2	180	141.2	14	4	18	100	1.07
65	2 1/2	210	171.7	16	4	20	120	1.40
80	3	250	201.0	18	4	22	140	1.80
100	4	300	240.0	20	4	25	160	2.20
125	5	350	280.0	22	4	28	180	2.70
150	6	400	320.0	24	4	30	200	3.20
200	8	500	400.0	28	4	35	250	4.50
250	10	600	500.0	32	4	40	300	6.00
300	12	700	600.0	36	4	45	350	8.00
350	14	800	700.0	40	4	50	400	10.00
400	16	900	800.0	45	4	55	450	12.00
450	18	1000	900.0	50	4	60	500	15.00
500	20	1100	1000.0	55	4	65	550	18.00
550	22	1200	1100.0	60	4	70	600	21.00
600	24	1300	1200.0	65	4	75	650	24.00



NOMINAL PIPE SIZE mm	INCH	OUTER DIAMETER D (mm)	INTERNAL DIAMETER C (mm)	THICKNESS T (mm)	NO. OF BOLT HOLES	DIAMETER OF BOLT HOLES J (mm)	DIAMETER OF BOLT HOLES K (mm)	APPROXIMATE WEIGHT (kg)
15	1/2	80	72.2	12	4	15	78	0.57
20	3/4	95	77.7	14	4	15	75	0.73
25	1	110	84.5	14	4	18	80	1.13
32	1 1/4	140	115	16	4	18	80	1.48
40	1 1/2	150	120	16	4	18	85	1.61
50	2	180	141.2	18	4	20	100	2.23
65	2 1/2	210	171.7	20	4	22	120	2.85
80	3	250	201.0	22	4	25	140	3.50
100	4	300	240.0	24	4	28	160	4.20
125	5	350	280.0	26	4	30	180	5.00
150	6	400	320.0	28	4	32	200	5.80
200	8	500	400.0	32	4	38	250	7.50
250	10	600	500.0	36	4	42	300	9.50
300	12	700	600.0	40	4	48	350	11.50
350	14	800	700.0	45	4	52	400	14.00
400	16	900	800.0	50	4	58	450	17.00
450	18	1000	900.0	55	4	62	500	20.00
500	20	1100	1000.0	60	4	68	550	23.00
550	22	1200	1100.0	65	4	72	600	26.00
600	24	1300	1200.0	70	4	78	650	29.00

SHENG TIAN PIPE FITTINGS SHENG TIAN PIPE FITTINGS

FORGED FLANGE ASTM A105 AND B16.9



NOMINAL PIPE SIZE mm	INCH	OUTER DIA. D (mm)	OUTER DIA. C (mm)	THICK- NESS T (mm)	TOTAL THICK- NESS H (mm)	DIA OF HUB & FACE J (mm)	DIA OF FACE K (mm)	NO OF BOLT HOLES	DIA OF BOLT HOLES L (mm)	APPROXIMATE WEIGHT (kg)
15	1/2	89	72.3	11.1	18	30.2	34.8	4	15.9	0.5
20	3/4	95	77.7	12.7	18	38.1	42.8	4	15.9	0.9
25	1	108	84.5	14.3	17	40.2	50.8	4	15.9	0.9
32	1 1/4	117	93.2	15.9	21	47.7	63.1	4	15.9	1.4
40	1 1/2	127	98.5	17.5	22	55.1	73.8	4	15.9	1.4
50	2	140	110.0	19.1	25	63.8	82.1	4	19.1	2.3
65	2 1/2	159	127.0	21.2	29	70.5	104.8	4	19.1	3.2
80	3	178	137.8	23.8	30	77.8	117.8	4	19.1	4.1
100	4	200	157.8	26.8	33	86.8	137.8	4	22.2	5.9
125	5	225	177.8	29.8	37	95.8	157.8	4	25.4	8.1
150	6	250	200.0	32.8	40	102.1	172.1	4	28.4	11.8
200	8	300	240.0	38.8	44	124.8	208.8	4	31.8	20.4
250	10	350	280.0	42.8	48	142.8	238.8	4	34.8	31.8
300	12	400	320.0	46.8	52	160.8	268.8	4	37.8	43.8
350	14	450	360.0	50.8	56	178.8	298.8	4	40.8	55.8
400	16	500	400.0	54.8	60	196.8	328.8	4	43.8	67.8
450	18	550	440.0	58.8	64	214.8	358.8	4	46.8	79.8
500	20	600	480.0	62.8	68	232.8	388.8	4	49.8	91.8
550	22	650	520.0	66.8	72	250.8	418.8	4	52.8	103.8
600	24	700	560.0	70.8	76	268.8	448.8	4	55.8	115.8

NOMINAL SIZE DN	SOCKET		HALF SOCKET	
	MINIMUM OUTSIDE DIA. A (mm)	OVERALL LENGTH B (mm)	MINIMUM OUTSIDE DIA. C (mm)	OVERALL LENGTH D (mm)
6	15.9	17	15.9	8
8	18.8	26	18.8	11
10	21.3	26	21.3	12
15	26.8	26	26.8	15
20	31.8	38	31.8	17
25	36.5	43	36.5	20
32	48.3	48	48.3	22
40	54.5	48	54.5	22
50	66.2	55	66.2	26
65	82.8	65	82.8	30
80	95	71	95	34
100	121.4	83	121.4	40
125	148.3	92	148.3	44
150	173.3	92	173.3	44

