

TOBO INTERNATIONAL TRADING (SHANGHAI)CO.,LTD TOBO PIPELINE EQUIPMENT (SHANGHAI) CO., LTD



中国 • 上海 CHINA • SHANGHA

企业简介 BRIEF INTRODUCTION





TOBO GROUP TOBO International Trading (Shanghai) Co.,Ltd ;TOBO Pipeline Equipments (Shanghai) Co., Ltd).is located in Shanghai,we are one of the biggest manufacturers Pipeline products in China .Our company was established in 1998, the plant covers 55, 000 square meters and a construction area of 6, 800 square meters, existing 160 workers and 15 technicians. Now, it owns a number of advanced pipe production equipments, metal, forging, machining, cold forming, hot extrusion, such as heat treapment process, producing 6, 000 tons of pipe fittings. Company with a variety of detection devices, such as nondestructive testing, chemical analysis, metallographic examination, physical experiments. The technical is very strength, our main products contain fittings (elbow, tee, flanges, cap, reducer, bend) forged socket welding fittings and threaded fittings, pipe (SMLS WELD ERWW , hot-dipped galvanized, electrical galvanized) and the materials of the products contain stainless steel ,duplex-stainless steel alloy steel.

In order to comply with the global modernization services development trends and eliminating the varieties distress of the global enterprise's purchase in the consumables, which especially in TOBO products. We coordinate the pressure pipe manufacturer which with the scale of production, quality control and high cost performance (has passed ISO 9001 quality series attestation, ccs, DNV,PED/97/23/EC,AD2000-WO, special equipment manufacturing license,ASME-SA182,) through a variety of effective assort mechanism to make up the shortage of supply and Post-processing of VAT enterprise, and to supply high quality pipe fittings, because of the superior quality and good service, we have established long term business cooperation with more than 30 countries and areas,which covers Europe, Africa, South America, North America, Middle East, Taiwan and South East Asia and so on.

With many years effort and support from our valuable customers, these products have obtained a big market share in the world. Our business principle is "Superior quality, Competitive price, Timely delivery and Considerate service" Standing to the principle of "Enterprises focus on the core business", we will actively promotes the globalization of business strategy approach, using advanced supply chain management technology to service for clients with higher quality and more competitiveness 's products. At the same time, we sincerely reply your inquiry, honesty waiting for your visiting and wish to have cooperation with you at the any time. We welcome all the customers to contact us for more information. We assure you, with our technical knowledge and experience, our company will be one of your Stable, Continuate business parters in China!

先进的生产设备 ADVANCED PRODUCTION EQUIPMENT





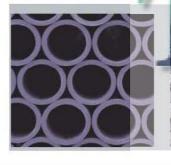














科学的检测设备 SCIENTIFIC CHECK-OUT FACILITIES



布氏硬度後期 Brinell hardness test



格氏硬度检测 Luo's hardness test



直接完徵位 PMI apactromerter



全相显微鏡 Wenteallographic microscope



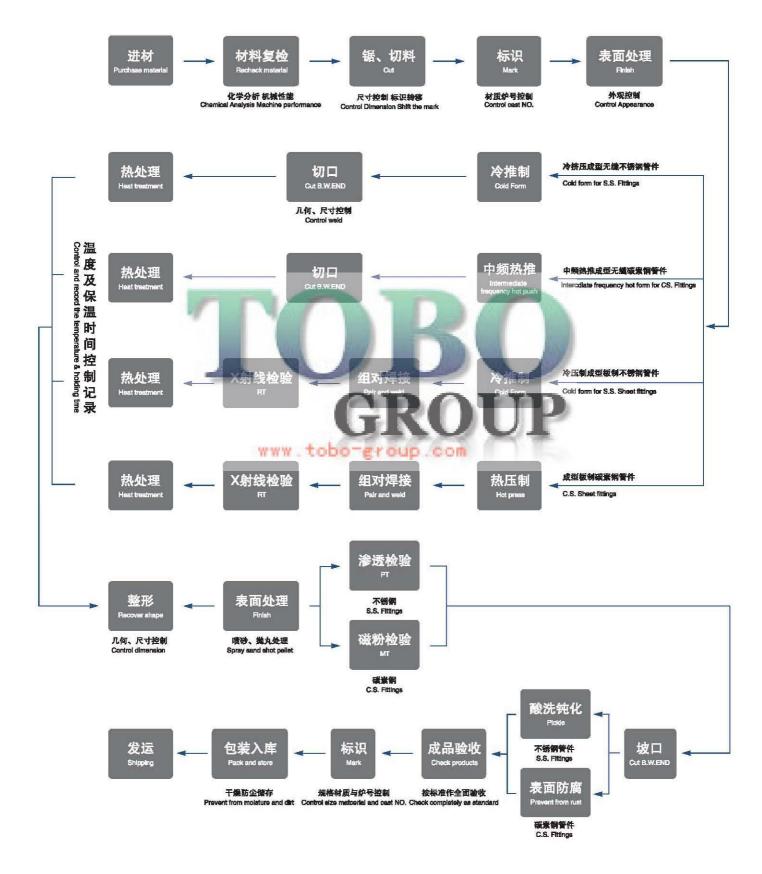
超声波探伤 Ultrasonic flew detector



尺寸检测 Size test

对焊管件生产工艺流程及质量控制图 FLOW &QUALITY CONTROL DIAGRAM OF BUTT WELDING FITTINGS

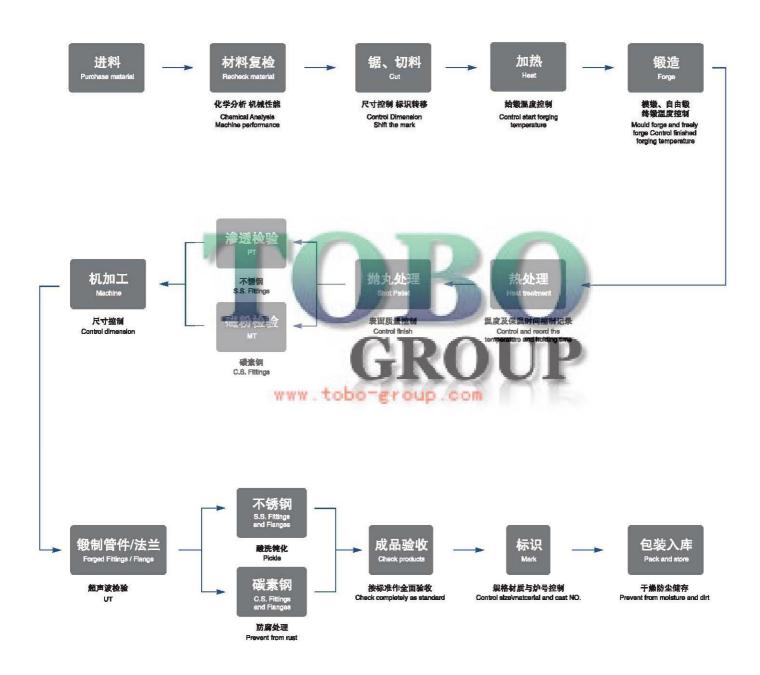




锻制管件、法兰生产工艺流程及质量控制图



FLOW & QUALITY CONTROL DIAGRAM OF FORGED FITTINGS AND FLANGES



产品一览 PRODUCTS



对焊管件 BUTT WELDING FITTINGS



锻制承插焊管件及管座***FORGED SOCKET WELDING FITTINGS AND OUTLETS



产品一览

PRODUCTS



仪器仪表类管件 FORGED THREADED FITTING

油田类管件 FORGED THREADED FITTING





锻造法兰 FORGED FLANGES

GROUP

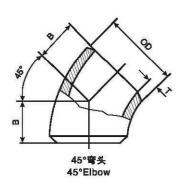


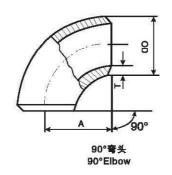
产品目录CATALOGUE

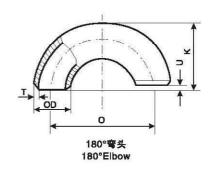


对焊管件	07-1
90°、45°、180° 弯头 90°、45°、180° Elbow	07
三通(等径、异径) Tee (Straight and Reducing)	08-09
异径管(同心、偏心) Reducer (Concentric and Eccentric)	10-1
翻边短节 Lap Joint Stub End	
管帽 Cap	
弯管 Bend	
锻制管件	15-3°
管螺纹 Pipe Thread	15
螺纹弯头、三通、四通 Threaded Elbow、Tee and Cross	
螺纹管箍、管帽 Threaded Coupling and Cap	
螺纹管塞 Threaded Plug	
六角双丝头 Hexagonal Nipple	
活接头(螺纹、承插) Union (Threaded and Socket)	
承插管件 Socket Welding Fittings	
承插管帽、管箍、斜三通 Socket Welding Cap、Coupling 、 Lateral	
变径承插接头 Reducing Socket Inserts	24
支管台(管座) Outlet	25-29
异径短节 Swage Nipple	30
	31
锻造法兰	32-36
	32
	33-34
	35
	36
And the state of	
绝缘接头	
法兰式绝缘接头 Insulating Flange	
整体式绝缘接头 Insulating Joint	38-40
管件公差	41-42
对焊管件公差 Tolerance for Butt Welding Fittings	41
般制管件公差 Tolerance for Forged Fittings	
name in the state of the state	
钢管外径与壁厚表	43-48
管外径与壁厚表 (GB/T12459、GB/T13401)	43
管外径与壁厚表 (SH3408、SH3409)	
管外径与壁厚表 (ASME B36.10M、ASME B36.19M)	
管外径与壁厚表 (JIS B2311、JIS B2312、JIS B2313)	
管外径与壁厚表 (SY/T 0510 A类)	
管外径与壁厚表 (SY/T 0510 B类)	48
各国常用材料对照表	49-50
各国对焊管件、板、管材材料标准对照表	
The standard contrast table for Butt Welding fitting、Steel plant and Pipe material	13
各国緞制管件、法兰、棒材料标准对照表	50
The standard contrast table for Forged fitting, Flange and Bar material	







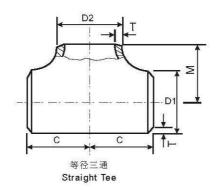


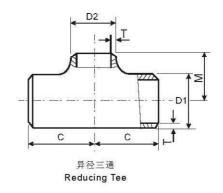
45°、90°、180°弯头 ELBOW



上述尺寸符合GB/T12459、GB/T13401、ASME B16.9、SH3408、SH3409、HG/T21635、HG/T21631、SY/T05010标准 Above dimensions acc.to GB/T13401、ASME B16.9、SH3408、SH3409、HG/T21635、HG/T21631、SY/T05010







三通(等径、异径) TEE (STRAIGHT AND REDUCING)

	☆称通径 nal Diameter		坡口夕 Outside(至	心 端面 nter
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Tan Brannoton	D	1	D	16,211,000	End	
DN	NPS	A 系列 Series A	B 系列 Series B	A 系列 Series A	B 系列 Series B	C	М
15x15x15	1/2x1/2x1/2	21.3	18	21.3	18	25	25
15x15x10	1/2x1/2x3/8	21.3	18	17.3	14	25	25
15x15x8	1/2x1/2x1/4	21.3	18	13.7	10	25	25
20x20x20	3/4×3/4×3/4	26.9	25	26.9	25	29	29
20x20x15	3/4×3/4×1/2	26.9	25	21.3	18	29	29
20x20x10	3/4×3/4×3/8	26.9	25	17.3	14	29	29
25x25x25	1x1x1	33.7	32	33.7	32	38	38
25x25x20	1×1×3/4	33.7	32	26.9	25	38	38
25x25 x15	1x1x1/2	33.7	32	21.3	18	38	38
32x32x32	1.1/4x1.1/4x1.1/4	42.4	38	42.4	38	48	48
32x32x25	1.1/4×1.1/4×1	42.4	38	33.7	32	48	48
32x32x20	1.1/4×1.1/4×3/4	42.4	38	26.9	25	48	48
32x32x15	1.1/2x1.1/4x1/2	424	38	21.3	18	48	48
40x40x40	1.1/2x1.1/2x1.1/2	48.3	45	48.3	45	57	57
40x40x32	1.1/2x1.1/2x1.1/4	48.3	45	42.4	38	57	57
40x40x25	1.1/2x1.1/2x1	48.3	45	33.7	32	57	57
40x40x20	1.1/2x1.1/2x3/4	48.3	45	26.9	25	57	57
40x40x15	1.1/2x1.1/2x1/2	48.3	45	21.3	18	57	57
50x50x50	2x2x2	60.3	57	60.3	57	64	64
50x50x40	2x2x1.1/2	60.3	57	48.3	45	64	60
50x50x32	2x2x1.1/4	60.3	57	42.4	38	64	57
50x50x25	2x2x1	60.3	57	33.7	32	64	51
50x50x20	2x2x3/4	60.3	57	26.9	25	64	44
65x65x65	2.1/2x2.1/2x2.1/2	73.0	76	73.0	76	76	76
65x65x50	2.1/2x2.1/2x2	73.0	76	60.3	57	76	70
65x65x40	2.1/2x2.1/2x1.1/2	73.0	76	48.3	45	76	67
65x65x32	2.1/2x2.1/2x1.1/4	73.0	76	42.4	38	76	64
65x65x25	2.1/2x2.1/2x1	73.0	76	33.7	32	76	57
80x80x80	3×3×3	88.9	89	88.9	89	86	86
80x80x65	3x3x2.1/2	88.9	89	73.0	76	86	83
80x80x50	3x3x2	88.9	89	60.3	57	86	76
80x80x40	3x3x1.1/2	88.9	89	48.3	45	86	73
80×80×32	3×3×1.1/4	88.9	89	42.4	38	86	70
90x90x90	3.1/2x3.1/2x3.1/2	101.6	9-20	101.6	-	95	95
90x90x80	3.1/2x3.1/2x3	101.6	=	88.9	89	95	92

		《通径 Diameter		坡口夕 Outside l			至站	心 尚面 nter
	TTOMMA	Diameter	D	1	D	2		End
	DN	NPS	A 系列 Series A	B 系列 Series B	A 系列 Series A	B 系列 Series B	C.	М
Ī	90x90x65	3.1/2x3.1/2x2.1/2	101.6	2 7-5 5	73.0	76	95	89
	90x90x50	3.1/2×3.1/2×2	101.6	25 -1 5	60.3	57	95	83
	90 ×90×40	3.1/2x3.1/2x1.1/2	101.6	25-02	48.3	45	95	79
	100x100x100	4× 4 ×4	114.3	108	114.3	108	105	105
	100x100x90	4x4x3.1/2	114.3	108	101.6	31	105	102
1	100x100x80	4x4x3	114.3	108	88.9	89	105	98
I	100x100x65	4x4x2.1/2	114.3	108	73.0	76	105	95
J	100×100×50	4x4x2	114.3	108	60.3	57	105	89
1	100x100x40	4x4x1.1/2	114.3	108	48.3	45	105	86
1	125×125×125	5x5x5	141.3	133	141.3	133	124	124
	125x125x100	5x5x4	141.3	133	114.3	108	124	117
	125×125×90	5x5x3.1/2	141.3	-	101.6	-	124	114
	125x125x80	5×5×3	141.3	133	88.9	89	124	111
	125×125×65	5x5x2.1/2	141.3	133	73.0	76	124	108
	125x125x50	5x5x2	141.3	133	60.3	57	124	105
	150x150x150	6x6x6	168.3	159	168.3	159	143	143
	150x150x125	6x6x5	168.3	159	141.3	133	143	137
6	150x150x100	6x6x4	168.3	159	114.3	108	143	130
3	150x150x90	6x6x3.1/2	168.3	3 <u>-35</u>	101.6	3/	143	127
	150x150x80	6x6x3	168.3	159	88.9	89	143	124
	150x150x65	6x6x2.1/2	168.3	159	73.0	76	143	121
	200x200x200	8x8x8	219.1	219	219.1	219	178	178
	200×200×150	8x8x6	219.1	219	168.3	159	178	168
	200x200x125	8x8x5	219.1	219	141.4	133	178	162
	200x200x100	8x8x4	219.1	219	114.3	108	178	156
	200x200x90	8x8x3.1/2	219.1	-	101.6	9 	178	152
	250x250x250	10x10x10	273.0	273	273.0	273	216	216
3	250x250x200	10x10x8	273.0	273	219.1	219	216	203
3	250x250x150	10x10x6	273.0	273	168.3	159	216	194
Ĭ	250x250x125	10x10x5	273.0	273	141.3	133	216	191
	250x250x100	10x10x4	273.0	273	114.3	108	216	184
	300x300x300	12x12x12	323.9	325	323.9	325	254	254
3	300x300x250	12×12×10	323.9	325	273.0	273	254	241
1	300x300x200	12x12x8	323.9	325	219.1	219	254	229
10	300x300x150	12x12x6	323.9	325	168.3	159	254	219

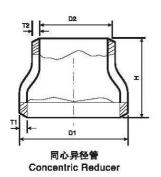


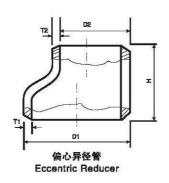
公称通	Territoria de la companya del companya del companya de la companya			处外径 Diameter		中心 至端面	
Nominal Dia	ameter	D	1	D	2	Cer	nter End
DN	NPS	A 系列 Series A	B 系列 Series B	A 系列 Series A	B 系列 Series B	С	М
300x300x125	12x12x5	323.9	325	141.3	133	254	216
350x350x350	14x14x14 355.6		377	355.6	377	279	279
350x350x300	14x14x12	355.6	377	323.9	325	279	270
350x350x250	14x14x10	355.6	377	273.0	273	279	257
350x350x200	14x14x8	355.6	377	219.1	219	279	248
350x350x150	14x14x6	355.6	377	168.3	159	279	238
400x400x400	16x16x16	406.4	426	406.4	426	305	30!
400x400x350	16x16x14	406.4	426	355.6	377	305	308
400x400x300	16x16x12	406.4	426	323.9	325	305	295
400x400x250	16x16x10	406.4	426	273.0	273	305	283
400x400x200	16x16x8	406.4	426	219.1	219	305	273
400x400x150	16x16x6	406.4	426	168.3	159	305	264
450x450x450	18x18x18	457	480	457	480	343	343
450x450x400	18x18x16	457	480	406.4	426	343	330
450x450x350	18x18x14	457	480	355.6	377	343	330
450x450x300	18x18x12	457	480	323.9	325	343	321
450x450x250	18x18x10	457	480	273.0	273	343	308
450x450x200	18x18x8	457	480	219.1	219	343	298
500x500x500	20x20x20	508	530	508	530	381	381
500x500x450	20x20x18	508	530	457	480	381	368
500x500x400	20x20x16	508	530	406.4	426	381	356
500x500x350	20x20x14	508	530	355.6	377	381	350
500x500x300	20x20x12	508	530	323.9	325	381	846
500x500x250	20x20x10	508	530	273.0	273	381	333
500x500x200	20x20x8	508	530	219.1	219	381	324
550x550x550	22x22x22	559	_	559	## t	419	419
550x550x500	22x22x20	559	=	508	_	419	406
550x550x450	22x22x18	559	-	457	_	419	394
550x550x400	22x22x16	559	_	406.4	_	419	38
550x550x350	22x22x14	559	-	355.6	-	419	381
550x550x300	22x22x12	559		323.9	_	419	371
550x550x250	22x22x10	559	_	273.0	_	419	359
600x600x600	24x24x24	610	630	610	630	432	432
600x600x550	24x24x22	610		559		432	432
600x600x500	24x24x20	610	630	508	530	432	432
600x600x450	24x24x18	610	630	457	480	432	419
600x600x400	24x24x16	610	630	406.4	426	432	406
800x600x350	24x24x14	610	630	355.6	377	432	406
600x600x300	24x24x12	610	630	323.9	325	432	397
600x600x250	24x24x10	610	630	273.0	273	432	384
650x650x650	26x26x26	660	_	660	in the second	495	498
650x650x600	26x26x24	660	-	610	_	495	483
850x650x550	26x26x22	660	_	559	_	495	470
650x650x500	26x26x20	660	_	508	_	495	457
850x650x450	26x26x18	660	1—	457	-	495	444
650x650x400	26x26x16	660	-	406.4	_	495	432
650x650x350	26x26x14	660	_	355.6	_	495	432
850x650x300	26x26x12	660	-	323.9	_	495	422
700×700×700	28x28x28	711	720	711	720	521	521
700x700x650	28x28x26	711	(<u>1</u>	660	224	521	521

公称通				处外径 Diameter	0	中心 至端面	
Nominal Dia	ameter	D	1	D	2		nter End
DN	NPS	A 系列 Series A	B 系列 Series B	A 系列 Series A	B 系列 Series B	С	М
700x700x600	28x28x24	711	720	610	630	521	50
700x700x550	28x28x22	711	-	559	-	521	49
700x700x500	28x28x20	711	720	508	529	521	48
700x700x450	28x28x18	711	720	457	478	521	47
700x700x400	28x28x16	711	720	406.4	426	521	45
700x700x350	28x28x14	711	720	355.6	377	521	45
700x700x300	28x28x12	711	720	323.9	325	521	44
750x750x750	30x30x30	762	_	762		559	55
750x750x700	30x30x28	762	_	711	-	559	54
750x750x650	30x30x26	762	_	660	-8	559	54
750x750x600	30x30x24	762	_	610	_	559	53
750x750x550	30x30x22	762	-	559		559	52
750x750x500	30x30x20	762	_	508		559	50
750x750x450	30x30x18	762	_	457		559	49
750x750x400	30x30x16	762		406.4	_	559	48
750x750x350	30x30x14	762	b _	355.6	_	559	48
750x750x300	30x30x12	762		323.9		559	47
750x750x250	30x30x10	762		273.0	_	559	46
800x800x800	32x32x32	813	820	813	820	597	59
800x800x750	32x32x30	813		762	_	597	58
800x800x700	32x32x28	813	820	711	720	597	57
		813	020	660	_	597	57
800x600x650 800x600x600	32x32x26 32x32x24	813	820	610	630	597	55
		813	620	559	000	597	54
800x800x550	32x32x22		-	100 (000)	500	0.1500000	
800x800x500	32x32x20	813	820	508	529	597	53
800x800x450	32x32x18	813	820	457	478	597	52
800x800x400	32x32x16	813	820	406.4	426	597	50
800x800x350	32x32x14	813	820	355.6	377	597	50
850x850x850	34x34x34	864	-	864		635	63
850x850x800	34x34x32	864	-	813		635	62
850x850x750	34x34x30	864	-	762		635	61
850×850×700	34x34x28	864		711		635	59
850x850x650	34x34x26	864	5 3	660		635	59
850x850x600	34x34x24	864	-	610	-	635	58
850x850x550	34x34x22	864		559		635	57
850x850x500	34x34x20	864	-	508	-8	635	55
850x850x450	34x34x18	864	, 1 -1	457	=	635	54
850x850x400	34x34x16	864		406.4	_	635	53
900x900x900	36x36x36	914	920	914	920	673	67
900x900x850	36x36x34	914		864	_	673	66
900x900x800	36x36x32	914	920	813	820	673	64
900x900x750	36x36x30	914	-	762		673	63
900x900x700	36x36x28	914	920	711	720	673	62
900x900x650	36x36x26	914	-	660	_	673	62
900x900x600	36x36x24	914	920	610	630	673	61
900x900x550	36x36x22	914	-	559	-	673	59
900x900x500	36x36x20	914	920	508	529	673	58
900x900x450	36x36x18	914	920	457	478	673	57
900x900x400	36x36x16	914	920	406.4	426	673	55

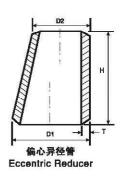
上述尺寸符合GB/T12459、GB/T13401、ASME B16.9、SH3408、SH3409、HG/T21635、HG/T21631、SY/T05010标准 Above dimensions acc.to GB/T13401、ASME B16.9、SH3408、SH3409、HG/T21635、HG/T21631、SY/T05010











异径管(同心、偏心) REDUCER (CONCENTRIC AND ECCENTRIC)

公	称通径	被口外 Outside [端面 至端面	
141	I Diameter		End	
100 - 00 000000000000000000000000000000	380000000000000000000000000000000000000	D1'	'D2	to End
DN	NPS	A 系列 Series A	B 該列 Series B	Н
20x15	3/4x1/2	26.9x21.3	25x18	38
20x10	3/4x3/8	26.9x17.8	25x14	38
25x20	1x3/4	33.7x26.9	32x25	51
25x15	1x1/2	33.7x21.3	32x18	51
32x25	1.1/4x1	42.4x33.7	38x32	51 7
32x20	1.1/4x3/4	42.4x26.9	38x25	51
32x15	1.1/4x1/2	42.4x21.3	38x18	51
40x32	1.1/2x1.1/4	48.3x42.4	45x38	64
40x25	1.1/2x1	48.3x33.7	45x32	64
40x20	1.1/2x3/4	48.3x26.9	45x25	64
40x15	1.1/2x1/2	48.3x21.3	45x18	64
50x40	2x1.1/2	60.3x48.3	57x45	76
50x32	2x1.1/4	60.3x42.4	57x38	76
50x25	2x1	60.3x33.7	57x32	76
50x20	2x3/4	60.3x26.9	57x25	76
85x50	2.1/2x2	73.0x60.3	76x57	89
65x40	2.1/2x1.1/2	73.0x48.3	76x45	89
65x32	2.1/2x1.1/4	73.0x42.4	76x38	89
65x25	2.1/2x1	73.0x33.7	76x32	89
80x65	3x2.1/2	88.9×73.0	89x76	89
80x50	3x2	88.9x60.3	89x57	89
B0x40	3x1.1/2	88.9x48.3	89x45	89
80x32	3x1.1/4	88.9x42.4	89x38	89
90x80	3.1/2x3	101.6x88.9	-	102
90x65	3.1/2x2.1/2	101.6x73.0	-	102
90x50	3.1/2x2	101.6x60.3		102
90x40	3.1/2x1.1/2	101.6x48.3	_	102
90x32	3.1/2x1.1/4	101.6x42.4		102

	R通径 Diameter	被口处 Outside D		機面 至端面 End
T T T T T T T T T T T T T T T T T T T	Diamotor	D1*	D2	to End
DN	NPS	A 系列 Series A	B 系列 Series B	Н
100x90	4x3.1/2	114.3x101.6		102
100x80	4x3	114.3x88.9	108x89	102
100x65	4x2.1/2	114.3x73.0	108x76	102
100x50	4x2	114.3x60.3	108x57	102
100x40	4x1.1/2	114.3x48.3	108x45	102
125x100	5x4	141.3x114.3	133x108	127
125x90	5x3.1/2	141.3x101.6	10 mg	127
125x80	5x3	141.3x88.9	133x89	127
125x65	5x2.1/2	141.3x73.0	133x76	127
125x50	5x2	141.3x60.3	133x57	127
150x125	6x5	168.3x141.3	168.3x141.3 159x133	
150x100	6x4	168.3x114.3	159x108	140
150x90	6x3.1/2	168.3x101.6		140
150x80	6x3	168.3x88.9	159x89	140
150x65	6x2.1/2	168.3x73.0	159x76	140
200x150	8x6	219.1x168.3	219x159	152
200x125	8x5	219.1x141.3	219x133	152
200x100	8x4	219.1x114.3	219x108	152
200x90	8x3.1/2	219.1x101.6	1-1	152
250x200	10x8	273.0x219.1	273x219	178
250x150	10x6	273.0x168.3	273x159	178
250x125	10x5	273.0x141.3	273x133	178
250x100	10x4	273.0x114.3	273x108	178
300x250	12x10	323.9x273.1	325x273	203
300x200	12x8	323.9x219.1	325x219	203
300x150	12x6	323.9x168.3	325x159	203
300x125	12x5	323.9x141.3	325x133	203
350x300	14x12	355.6x323.9	377x325	330

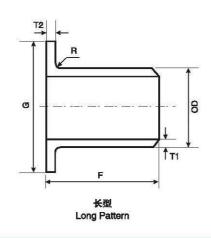


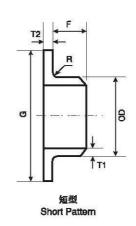
	通 径 Diameter	坡口处 Outside D	端面 至端面 End	
	541.02C-4770444020.010	D1*	D2	to End
DN	NPS	A 系列 Series A	B 聚列 Series B	н
350x250	14x10	355.6x273.0	377x273	330
350x200	14x8	355.6x219.1	377x219	330
350x150	14x6	355.6x168.3	377x159	330
400x350	16x14	406.4x355.6	426x377	356
400x300	16x12	406.4x323.9	426x325	356
400x250	16x10	406.4x273.0	426x273	356
400x200	16x8	406.4x219.1	426x219	356
150x400	18x16	457x406.4	478x426	381
450x350	18x14	457x355.6	478x377	381
450x300	18x12	457x323.9	478x325	381
450x250	18x10	457x273.0	478x273	381
500x450	20x18	508x457	529x478	508
500x400	20x16	508x406.4	529x4 26	508
500x350	20x14	508x355.6	529x377	508
500x300	20x12	508x323.9	529x325	508
550x500	22x20	559x508	_	508
550x450	22x18	559x457	_	508
550x400	22x16	559x406.4	_	508
550x350	22x14	559x355.6	M.M.M.	508
600x550	24x22	610x559	-	508
500x500	24x20	610x508	630x529	508
800x450	24x18	610x457	630x478	508
800x400	24x16	610x406.4	630x426	508
650x600	26x24	660x610	-	610
650x550	26x22	660x559	_	610
850x500	26x20	660x508		610
850x450	26x18	660x457		610
700x650	28x26	711x660	_	610
700x600	28x24	711x610	720x630	610
700x550	28x22	711x559	_	610
700x500	28x20	711x508	720x530	610
750x700	30x28	762x711	-	610
750x650	30x26	762x660	-	610
750×600	30x24	762x610	-	610
750x550	30x22	762x559	-	610
800×750	32x30	813x762	-	610

公称: Nominal I	Maria Company	坡口刻 Outside [端面 至端面 End	
Tronna.	J. C.	D11	*D2	to End
DN	NPS	A 緊列 Series A	B 系列 Series B	н
800x700	32x28	813x711	820x720	610
800x650	32x26	813x660	-	610
800x600	32x24	813x610	820x630	610
850x800	34x32	864x813	-	610
850x750	34x30	864x762	-	610
850x700	34x28	864x711	-	610
850x650	34×26	864×660	-	610
900x850	36x34	914x864	-	610
900x800	36x32	914x813	920x820	610
900x750	36x30	914x762	-	610
900x700	36x28	914x711	920x720	610
950x900	38x36	965x914		610
950x850	38x34	965x864	-	610
950x800	38x32	965x813	_	610
950x750	38x30	965x762		610
1000x950	40x38	1016x965	_	610
1000x900	40x36	1016x914	1020x920	610
1000x850	40x34	1016x864	-	610
1000x800	40x32	1016x813	1020x820	610
1050x1000	42x40	1067x1016	-	610
1050x950	42x38	1067x965	-	610
1050x900	42×36	1067x914	5-31	610
1050x850	42x34	1067x864	 -1	610
1100x1050	44x42	1118x1067	_	610
1100x1000	44x40	1118x1016	1120x1020	610
1100x950	44x38	1118x965	=	610
1100x900	44x36	1118x914	1120x920	610
1150x1100	46x44	1168x1118	-	711
1150x1050	46x42	1168x1067	_	711
1150x1000	46x40	1168x1016		711
1150x950	46x38	1168x965	-	711
1200x1150	48x46	1220x1168	-	711
1200x1100	48x44	1220x1118	1220x1120	711
1200x1050	48x42	1220x1067	-	711
1200x1000	48x40	1220x1016	1220x1020	711

上述尺寸符合GB/T12459、GB/T13401、ASME B16.9、SH3408、SH3409、HG/T21635、HG/T21631、SY/T05010标准 Above dimensions acc.to GB/T13401、ASME B16.9、SH3408、SH3409、HG/T21635、HG/T21631、SY/T05010





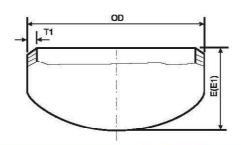


翻边短节 LAP JOINT STUB END

公称通径 Nominal Diameter		短节外径 Outside Diameter	接管长度F Length		搭接外径 Diameter Of Lap Nominal&Maximum	圆角半径 R	
DN	NPS	OD	长 型 LP	短型 SP	G	A Max	B Max
15	1/2	21.3	76	51	35	3	0.75
20	3/4	28.7	76	-51	48	3	0.75
25	1	33.4	102	-51		3	0.75
32	1.1/4	42.4	102	51	64	5	0.75
40	1.1/2	48.3	102	-51	73 —	6	0.75
50	2	60.3	152	64UP	COM 92	8	0.75
65	2.1/2	73.0	152	64	105	8	0.75
80	3	88.9	152	64	127	10	0.75
90	3.1/2	101.6	152	76	140	10	0.75
100	4	114.3	152	76	157	11	0.75
125	5	141.3	203	76	186	11	1.5
150	6	168.3	203	89	216	13	1.5
200	8	219.1	203	102	270	13	1.5
250	10	273.1	254	127	324	13	1.5
300	12	323.9	254	152	381	13	1.5
350	14	355.6	305	152	413	13	1.5
400	16	406.4	305	152	470	13	1.5
450	18	457.2	305	152	533	13	1.5
500	20	508	305	152	584	13	1.5
550	22	559	305	152	641	13	1.5
600	24	610	305	152	692	13	1.5

注:上述尺寸符合MSS SP-43、ASME B16.9标准。 Above dimensions acc. to MSS SP-43、ASME B16.9.





管帽 CAF

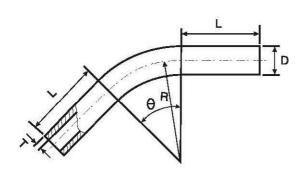


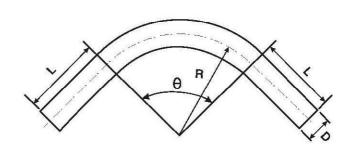
注:高度E适用于T不超过括号内数值时,否则应采用E1高度。

When T is less the dimension in parentheses, the height E is available. Otherwise E1 is available.

上述尺寸符合GB/T12459、GB/T13401、ASME B16.9、SH3408、SH3409、HG/T21635、HG/T21631、SY/T05010标准 Above dimensions acc.to GB/T13401、ASME B16.9、SH3408、SH3409、HG/T21635、HG/T21631、SY/T05010







弯管 BEND

项 目 Item		内 容 Description	
标准 Standard			,或按客户提出的标准或技术要求执行。 teel Bend》,or customer's techincal drawing
材料 Material		訊、合金例、不能 eel, alloy steel, s	
弯曲半径R Bend Radius R	(用R等于3D、4D、5D、6D、7		l≫D D來表示弯曲半径,D 为管子外径) D、10D) D:outside diameter
弯曲角度○ Bend Angle ⊖	TO SERVICE AND SER		o°,也可按客户提出的角度弯制。 、180° or at customer's option
直段长度L Length of Straight L	M. ETLANCON CHARGE STANDARD MARKETAN MARKETANINA PAR		右,也可按客户要求定制长度。 of straight, It is at customer's option
外径D Outside Diameter D		D ≤ 1220mm	
登厚T Wall Thickness T		T≰20mm	
端部破口 End Bevel		管件爆螨破口结构 relding bevel of t	有型式执行 butt welding fitting
**	重量(Kg)= -	0.0433(D-T)TR 100000	⊕ —— +L(双端直管段重量)



管螺纹(PIPE THREAD)

螺纹管件为采用锥管螺纹连接型式的管件,仅用于英制管,不能用于公制管。 本公司生产的螺纹管件符合美国ANSI B16.11和GB/T14826标准,在工程管道中常用的管螺纹有三种;

Threaded fittings are taper threaded connecting pipe fittings which are suitable for BSP (British Standard Pipe) pipe fittings, instead of metric pipe fittings. These threaded fittings are provided by Longnai company and conform to the American ANSI B16.11 Standard and the GB/T14626 Standard, in which three kinds of common pipe threads are used in pipeline engineering.

◆ ISO7/1是国际通用螺纹密封管螺纹, 牙型角55°, 维度1:18。
内螺纹有平行(Rp)和维形(Rc)两种, 外螺纹只有锥形R, 常用为Rp-R, 如图a所示, 用于公用工程较多, 而Rc-R使用较不普遍。

Tooth profile angle is 55° taper is 1:16. Internal thread type: Rp, Rc, outer thread:R Rp-R is used widely in construction Engineering, But Rc-R is not used widely, Shown as drawing a.

◆ ISO228是国际通用的非螺纹密封管螺纹, 牙型角55°。

内、外螺纹均为平行,如图b所示。

ISO228 is nonthread sealed pipe thread. Internal and outer thread is parallel. The tooth profile angle is 55° shown and drawing b.

→ ANSI B1.20.1是美国螺纹密封管螺纹, 牙型角60° (NPT), 锥度1:16。

内、外螺纹均为锥形,是高温高压管道中常用的管螺纹,AMSE B16.11,如图b所示。螺纹管件采用NPT螺纹。NPT与ISO7/1(俗称BSP),虽然牙型角不同,但1/2和3/4两档的螺距相同,可以相互连接。

ANSI B1.20.1 is thread sealed pipe thread, The tooth profile angle is 60° (NPT), Taper is 1:16 internal and outer thread is taper it is used widely in high pressure and temperature fittings. Shown an drawing c.The profile angle is different for NPT and ISO7/1. But the thread interval is same for thread 1/2 & 3/4. They can assembly.

锥管螺纹基本尺寸 DIMENSION OF TAPER PIPE THREAD

	8	ISO7/1					- NPT				
螺纹尺寸 Dim ension ofThread	每英寸 牙数 Num berof Tums per inch	螺距 Thread Interval 伽丽)	基准长度 Basic Length (m.m.)	装配余量 Assem <mark>bly</mark> Margin (mm)	牙角型 Tooth Profile Angle	每英寸 序数 Num ber ofTums perinch	螺距 Thread Interval 伽丽)	手旋含长度 Length of W ith D one by H and (m m)	板动拧紧 长度 With Tool 伽m)	牙角型 Tooth Profile Angle	
1/8	28	0.907	4	2.5		27	0.9408	4.1	2.8		
1/4	19	1.337	6	3.7		18	1.4112	5.8	4.2		
3/8	19	1.337	6.4	3,7		18	1.4112	6.1	4.2		
1/2	14	1.814	8.2	5		14	1.814	8.1	5.4		
3/4	14	1.814	9.5	5		14	1.814	8.6	5.4		
1	11	2.309	10.4	6.4		11.1/2	2.2088	10.2	6.6		
1.1/4	11	2.309	12.7	6.4	55°	11.1/2	2.2088	10.7	6.6	60°	
1.1/2	11	2.309	12.7	6.4		11.1/2	2.2088	10.7	6.6		
2	11	2.309	15.9	7.5		11.1/2	2.2088	111	6.6		
2.1/2	11	2.309	17.5	9.2		8	3.175	17.3	6.4		
3	11	2.309	20.6	9.2		8	3.175	19.5	6.4		
4	11	2.309	25.4	10.4		8	3.175	21.4	6.4		
6	11	2.309	28.6	11.5		8	3.175	24.3	6.4		





(a) Rp/R ISO F/1





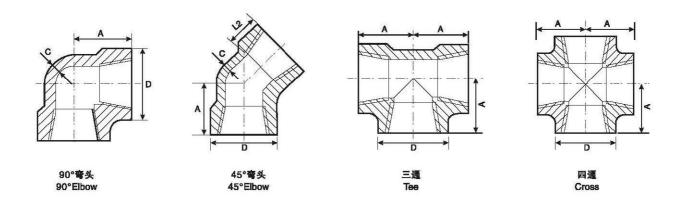
(b) G ISO 228





(c) NPT





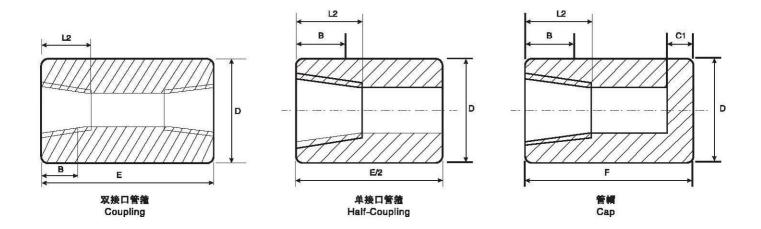
螺纹弯头、三通、四通 THREADED ELBOW TEE- CROSS

公務	通径		中,	心至端面	Center to	End		Out	外径 side Diam	eter	W	整厚 all Thickno	ess	螺紋	长度	
lominal	Diameter	1500000	·、三通、 W、Tee、	四通	A \	45°弯头 45°Elbow	G.	DOLL			9 3	Cmin			Length of Thread	
DN	NPS	2000LB	3000LB	6000LB	2000LB	3000LB	600 0L B	2 0 00L B	3000LB	6 00 0LB	200 0 LB	3000LB	6000LB	NPT	RC	
Div	1110	Sch80	Sch160	XXS	Sch80	Sch160	XXS	Sch80	Sch160	xxs	Sch80	Sch160	xxs		110	
6	1/8	21	21	25	17	17	19	22	22	25	3.0	3.0	6.5	6.5	6.5	
8	1/4	21	25	29	17	19	22	22	25	33	3.0	3.5	6.5	8.0	10.0	
10	3/8	25	29	33	19	22	25	25	33	38	3.0	3.5	7.0	9.0	10.5	
15	1/2	29	33	38	22	25	29	33	38	46	3.0	4.0	8.0	11.0	13.5	
20	3/4	33	38	44	25	29	33	38	46	56	3.0	4.5	8.5	12.5	14.0	
25	1	38	44	51	29	33	35	46	56	62	3.5	5.0	10.0	14.5	17.5	
32	1.1/4	44	51	60	33	35	43	56	62	75	4.0	5.5	10.5	17.0	18.0	
40	1.1/2	51	60	64	35	43	44	62	75	84	4.0	5.5	11.0	18.0	18.5	
50	2	60	64	83	43	45	52	75	84	102	4.5	7.0	12.0	19.0	19.0	
65	2.1/2	76	83	95	52	52	64	92	102	121	5.5	7.5	15.5	23.5	29.0	
80	3	86	96	106	64	64	79	110	121	146	6.0	9.0	16.5	26.0	30.5	
100	4	106	114	114	79	79	79	146	152	152	6.5	11.0	18.5	27.5	33.0	

上述尺寸符合GB/T14626、ANSI B16.11、BS3799标准。

Above dimensions acc.to the standard of GB/T14626、ANSI B16.11、BS3799.





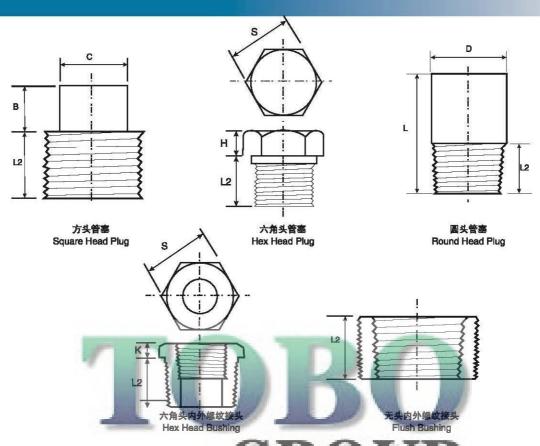
螺纹管箍、管帽 THREADED COUPLING AND CAP

公称 Nominal	通径 Diameter		End	跨帽长度 to End		Outside	径 Diameter		Thickness	螺纹长度 Length of Thread	
		3000LB	6000LB	3000LB	6000LB	"3000LB	6000LB	3000LB	6000LB		
DN	NPS	Sch160	XXS	Sch160	XXS	Sch160	XXS	Sch160	XXS	В	L2
6	1/8	32	32	19	G	16	22	5,0	4	6.5	6.5
8	1/4	35	35	W V25	0 b27 = 6	roup	C (25)	5.0	6.5	8.0	10.0
10	3/8	38	38	25	27	22	32	5.0	6.5	9.0	10.5
15	1/2	48	48	32	33	29	38	6.5	8.0	11.0	13.5
20	3/4	51	51	37	38	35	44	6.5	8.0	12.5	14.0
25	1	60	60	41	43	44	57	9.5	11.0	14.5	17.5
32	1.1/4	67	67	44	46	57	64	9.5	11.0	17.0	18.0
40	1.1/2	79	79	44	48	64	76	11.0	12.5	18.0	18.5
50	2	86	86	48	51	76	92	12.5	16.0	19.0	19.0
65	2.1/2	92	92	60	64	92	108	16.0	19.0	23.5	29.0
80	3	108	108	65	68	108	127	19.0	22.0	26.0	30.5
100	4	121	121	68	75	140	159	22.0	28.5	27.5	33.0

上述尺寸符合GB/T14626、ANSI B16.11、BS3799标准。

Above dimensions acc. to the standard of GB/T14626, ANSI B16.11, BS3799.



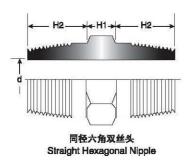


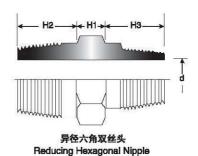
螺纹管塞(堵头)THREADED PLUG

公務	x通径	螺紋长度 Length of		普塞 lead Plug	圆头管 Round He		六角头管塞和接头 Hex Head Plug and Bushing			
Nominal	Diameter	Thread	方头高度 Height of Square	平面宽度 Width Of Flats	圆头直径 Diameter of Round Head	全长 Length	平面宽度 Width Of Flats		人高度 leigth	
DN	NPS	L2min	Bmin	Cmin	D	Lmin	S	Kmin	Hmir	
6	1/8	9.5	6	7.0	10	35	11.0		6	
8	1/4	11.0	6	9.5	13	41	16.0	3	6	
10	3/8	12.5	8	11.0	17	41	17.5	4	8	
15	1/2	14.5	10	14.5	21	44	22.0	5	8	
20	3/4	16.0	11	16.0	27	44	27.0	6	10	
25	1	19.0	13	20.5	33	51	35.0	6	10	
32	1.1/4	20.5	14	24.5	43	51	44.5	7	14	
40	1.1/2	20.5	16	28.5	48	51	51.0	8	16	
50	2	22.0	17	33.5	60	64	63.5	9	17	
65	2.1/2	27.0	19	38.0	73	70	76.0	10	19	
80	3	28.5	21	43.0	89	70	89.0	10	21	
100	4	32	25	63.5	114	76	117.5	13	25	

上述尺寸符合GB/T 14626、ASME B16.11、BS3799标准 Above dimensions acc.to GB/T14626、ANSI B16.11、BS3799.







六角双丝头 HEXAGONAL NIPPLE

	京通径 I Diameter		尺 Si	100 E	
DN	NPS	d	H1	H2	нз
6	1/8	4.1	6	10	
8	1/4	7.1	8	14	-
10	3/8	8.9	8	14	-
10 x 8	3/8 x 1/4	7.1	8	14	14
15	1/2	11.9	9	19	1
15 x 10	1/2 x 3/8	8.9	9	19	14
15 x 8	1/2 x 1/4	7.1	9	19	14
20	3/4	16.0	10	19	-
20 x 15	3/4 x 1/2	11.9	10	19	19
20 x 10	3/4 x 3/8	8.9	10	19	14
20 x 8	3/4 x 1/4	7.1	10	19	14
25	1	20.1	11	24	-
25 x 20	1 x 3/4	16.0	11	24	19
25 x 15	1 x 1/2	11.9	11	24	19
25 x 10	1 x 3/8	8.9	11	24	14
32	1.1/4	27.9	12	24	_
32 x 25	1.1/4 x 1	20.1	12	24	24
32 x 20	1.1/4 x 3/4	16.0	12	24	19

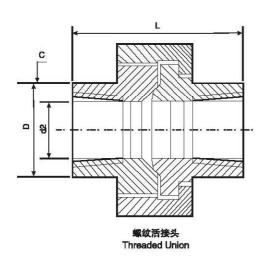
	家通径 I Diameter	尺寸 Size							
DN	NPS	d	н	H2	НЗ				
32 x 15	1.1/4 x 1/2	11.9	12	24	19				
40	1.1/2	32.0	14	25	V <u>2 - 18</u>				
40 x 32	1.1/2 x 1.1/4	27.9	14	25	24				
40 x 25	1.1/2 x 1	20.1	14	25	24				
40 x 20	1.1/2 x 3/4	16.0	14	25	19				
10 .cor	2	39.9	16	26	-				
50 x 40	2 x 1.1/2	32.0	16	26	25				
50 x 32	2 x 1.1/4	27.9	16	26	24				
50 x 25	2 x 1	20.1	16	26	24				
65	2.1/2	55.1	18	38	_				
65 x 50	2.1/2 x 2	39.9	18	38	26				
65 x 40	2.1/2 x 1.1/2	32.0	18	38	25				
65 x 32	2.1/2 x 1.1/4	27.9	18	38	24				
80	3	65.0	20	40	-				
80 x 65	3 x 2.1/2	55.1	20	40	38				
80 x 50	3 x 2	39.9	20	40	26				
80 x 40	3 x 1.1/2	32.0	20	40	25				

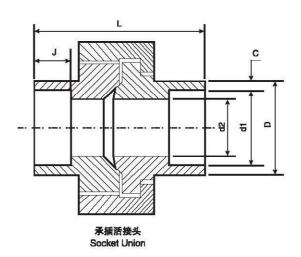
说明:

螺紋型式为GB/T 12716(ANSI/ASME B1.20.1)中的60°圓锥管螺紋NPT;也可采用其它型式的螺紋制造,请在订货时注明。

The standards and codes of the fittings is conical threaded NPT angle 60° of GB/T 12716(ANSI/ASME B1.20.1), and if requiring other types of thread, please indicate them in the purchased order.







活接头(螺纹、承插)UNION (Threaded and Socket)

公和	家通 径		径 Dlamet er		算 lickness	承插孔径 Socket Bore	流通孔径 Water way Bore	承插孔深度 Depth of Socket	公称装配长度 Length Assem Nominal
Nomina	I Diameter	D	min	Or	Cmin		d2	J	L
DN	NPS	承插焊 Socket	螺纹 Threaded	承插焊 Socket	机纹 Threaded	承插焊 So ck et	永插焊、螺纹 Socket & Threaded	承插焊 Socket	承插焊、螺纹 Socket & Threaded
6	1/8	21.8	W 147 - t	obazer	0U2.5 CO	10.65	6.43	10	41.4
8	1/4	21.8	19.0	3.3	3.1	14.10	9.45	10	41.4
10	3/8	25.9	22.9	3.5	3.2	17.55	13.51	10	46.0
15	1/2	31.2	27.7	4.1	3.8	21.70	17.07	10	49.0
20	3/4	37.1	33.5	4.3	4.0	27.05	21.39	13	56.9
25	1	45.5	41.4	5.0	4.6	33.80	27.74	13	62.0
32	1.1/4	54.9	50.5	5.3	4.9	42.55	35.36	13	71.1
40	1.1/2	61.5	57.2	5.6	5.1	48.65	41.20	13	76.5
50	2	75.2	70.1	6.1	5.6	61.10	52.12	16	86.1
65	2.1/2	91.7	85.3	7.7	7.1	73.80	64.31	16	102.4
80	3	109.2	102.4	8.4	7.7	89.80	77.27	16	109.0

上述尺寸符合MSS SP-83、BS3799标准。Above dimensions acc.to MSS SP-83、BS3799.



承插管件(SOCKET WELDING FITTINGS)

承插焊管件源于美国ANSI B16.11,仅用于英制管。但由于其施工简单方便、产品安全可靠、标准化程度高、为此国内使用日益广泛、并逐渐扩展到公制管领 域,本公司生产英制及公制两个系列的承插爆管件。除承插口尺寸按本页下表有所区别外,其众均相同。

Socket welding fittings are derived from American ANSI B16.11, only suitable for BSP pipe fittings. However, due to their simple installation, simple and safe operation, reliable performances and high quality, they enjoy a great popularity among customers at home and abroad and have gradually expanded to the field of metric pipe fittings. Longnai specializes in producing and processing two series of socket welding fittings, namely BSP and metric socket welding fittings. Except for socket size difference (see the following table), these fittings are of the same kind.

本公司生产的承插焊管件符合下列标准:

Our company manufacture socket welding fitting as following standard:

英制管系列 British series	公制管系列Metric series
ANSI B16.11 BS3799	
JIS B2316	GB/T14383(B系列)
GB/T14383(A系列)	化工部 HG21634(公制系列)
中石化 SH3410	arting of the colonings and account over colonina suggests and the colonina colonings and the colonina colonings and the colonina
化工部 HG21634	

国内公制管一般不采用登厚等级,而注明具体登厚、为此、用户在定购公制 承插管件,应注明具体外径及整厚尺寸。

It doesn't say schedule but thickness for metric pipe. So you shall tell the OD and thickness when order.

例如(For example):

SH3410 奇头(elbow) 1" Sch80(或3000LB) 20# (用于英制管 British series) 20# (用于公制管 Metric series)

HG21634 夸头(elbow) Φ45x4

本公司生产的承插焊管件材料有碳钢、合金钢、不锈钢,供用户选用。 We manufacture the socket welding fittings in carbon steel, Alloy steel and stainless steel for user customer.

压力等级Rate	管子壁厚管表	 Schedule
3000LB	Sch80	XS
6000LB	Sch160	_
9000LB	Instantonicou d'année	XXS

	小口	2径管	壁厚 Thick	kness c	of small	diameter pipe	mm
	DN		NPS	9	宁子壁 厚	管表号Schedul	ө
	mm		In	Sc	h80	Sch160	XXS
	6		1/8	2.	41	3.15	4.83
	8		1/4	3.	.02	3.60	6.05
J.	10	1	3/8	3.	.20	4.01	6.40

承插口尺寸表 SOCKET WELDING END DIM

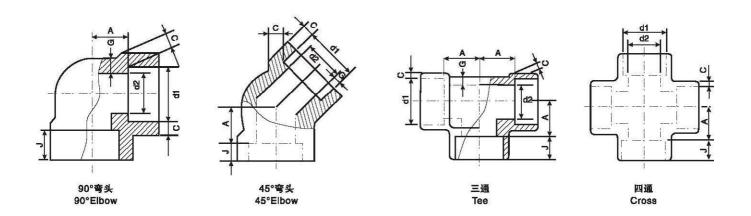
八田	遠径			ANS	B16.11 S	H3410 GE	/T 14383 (A系列) JI:	S B2316		GB/T14	383 (B系列	∬) HG216	34 (公制
	minal	l-sla	钢管外径	插口直径	播口	1孔柱 Dmin	14383	插口鹽厚 C min		nin	钢管外径	插口直径	插口孔	礼柱 D
Diar	meter	Jmin	Outside	Bmin Diameter	3000LB	6000LB	9000LB	3000LB	6000LB	9000LB	Outside diameter	Bmin Diameter	3000LB	6000LE
DN	NPS		of Pipe	of Fancet	Sch80	Sch160	xxs	Sch80	Sch160	xxs	of pipe	of Fancet	Sch80	Sch160
6	1/8	10	10.3	10.7	6.1	3.2	51 0/	3.2	3.5	_	10	10.4	5	4
8	1/4	10	13.9	14.1	8.5	5.6	01_0	3.3	4.0	4-4	12	12.4	6	5
10	3/8	10	17.1	17.5	11.8	8.4	9—0	3.5	4.4	===	14	14.4	8	6
15	1/2	10	21.3	21.8	15	11.0	5.6	4.1	5.2	8.2	18	18.5	11	19
20	3/4	13	26.9	27.4	20.2	14.8	10.3	4.3	6.1	8.6	25	25.5	17	14
25	1	13	33.7	34.2	25.9	19.9	14.5	5.0	7.0	10.0	32	32.5	23	20
(32)	1.1/4	13	42.4	42.9	34.3	28.7	22	5.3	7.0	10.6	38	38.5	28	26
40	1.1/2	13	48.3	48.3	40.1	33.2	27.2	5.6	7.8	11.2	45	45.5	35	31
50	2	16	60.3	61.1	51.7	42.1	37.4	6.1	9.5	12.2	57	57.8	46	40
(65)	2.1/2	16	71.6(73)	71.6(73.8)	61.2	56.1	_	7.7	12.5	_	76	76.8	62	56
80	3	16	88.9	89.8	76.4	66.9	_	8.3	13.8	_	89	89.9	73	67
100	4	19	114.3	115.5	100.7	-	1—	9.4	_	-	108	109.2	91	3-35

说明:

- 1、承插桿管件一般用于英制管,但当用户注明时,本公司亦可生产用于公制管的承插焊管件,其承口尺寸按上表右列尺寸。
- 2、公制承插口壁厚尺寸Cmin值按英制管插口相应數值。
- 3、公彻承插口尺寸D,可根据具体整厚调整,为此用户定购公彻承插管件时,可注明管子整厚尺寸,代替压力等级。

- 1. Socket welded fitting is used in British system. But we can make according to Metric system if noted by customer. The dimension of socket end is according to the
- 2. The dimension of socket end is according to the related pipe dimension in British system.
- 3. D is according to wall thickness. So note the wall thickness but not pressure when you order metric socket welded fitting.





承插焊弯头、三通、四通 socket welding elbow、tee、cross



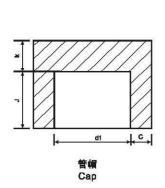
说明:

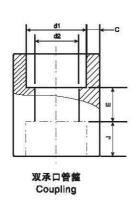
承插壁厚外围平均值不低于所列值,最小值仅限于局部区域。

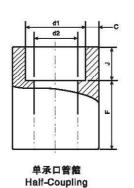
Average of socket wall thickness around periphery shall be no less than listed values. The minimum values are permitted in localized areas.

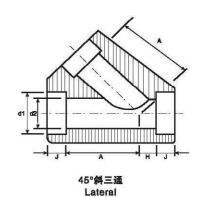
上述尺寸符合ASME B16.11、GB/T14383、SH3410、HG/T21634、JIS B2316、BS3799标准。 Above dimensions acc. to ASME B16.11、GB/T14383、SH3410、HG/T21634、JIS B2316、BS3799.











承插焊管帽、管箍、斜三通 SOCKET WELDING CAP、COUPLING、LATERAL



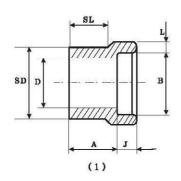
说明:

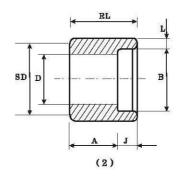
承插壁厚外围平均值不低于所列值,最小值仅限于局部区域。

Average of socket wall thickness around periphery shall be no less than listed values. The minimum values are permitted in localized areas.

上述尺寸符合ASME B16.11、GB/T14383、SH3410、HG/T21634、JIS B2316、BS3799标准。 Above dimensions acc. to ASME B16.11、GB/T14383、SH3410、HG/T21634、JIS B2316、BS3799.







变径承插接头 REDUCING SOCKET INSERTS (1. 2)

No	公称通径 类型 Nominal Diameter Type		(9,531)		Standard Control		Share Control of Control		A	1	Cm	in	S	L	RL		Dia	盾口 直径 imeter faucet	插口 深度 The deepness of faucet	Diamete	.径 er of Hole D)
DN	NPS	3000LB	6000LB		3000LB	6000LB	3000LB	6000LB	3000LB	6000LB	3000LB	6000LB		В	J	3000LB	6000LB				
2.,	112.0	Sch80	Sch160		Sch80	Sch160	Sch80	Sch160	Sch80	Sch160	Sch80	Sch160		-		Sch80	Sch160				
10x8	3/8x1/4	1	1	17.1	19	21	3.8	4.6	14	16	-	-	1	4.2	10	9.0	6.5				
15 x 10	1/2x3/8	1	1	21.3	21	23	4.0	5.0	16	16	34	-	1	7.7	10	12.5	9.0				
15 x8	1/2x1/4	2	1	21.3	21	21	3.8	4.6	16	16	4	H	1	4.2	10	9.0	6.0				
20x15	3/4x1/2	1	1	26.7	22	25	4.7	6.0	17	19	-		2	1.8	10	16.0	11.5				
20x10	3/4x3/8	2	1	26.7	16	22	4.0	5.0	3	19	21	1 7	1	7.7	10	12.5	9.0				
20x8	3/4x1/4	2	2	26.7	18	22	3,8	4.6	1		21	32	1	4.2	10	9.0	6.5				
25x20	1x3/4	1	1	33.4	24	28	4.9	7.0	19	21	-		2	7.2	13	21.0	15.5				
25x15	1x1/2	2	2	33.4	16	28	4.7	6.0	_	21	28	_	2	1.8	10	16.0	11.5				
25x10	1x3/8	2	2	33.4	18	22	4.0	5.0	-	<u>-</u>	28	33	1	7.7	10	12.5	9.0				
25x8	1x1/4	2	2	33.4	19	24	3.8	4.6	_	_	28	33	1	4.2	10	9.0	6.0				
32x25	1.1/4x1	1	1	42.4	25	30	5.7	7.9	21	22	-	9=3	3	3.9	13	26.5	20.5				
32 x 20	1.1/4x3/4	2	2	42.4	18	21	4.9	7.0		_	32	35	2	7.2	13	21.0	15.5				
32 x 15	1.1/4x1/2	2	2	42.4	19	22	4.7	6.0	-	-	32	35	2	1.8	10	16.0	11.5				
32x10	1.1/4x3/8	2	2	42.4	21	24	4.0	5.0			32	35	1	7.7	10	12.5	9.0				
32x8	1.1/4x1/4	2	2	42.4	22	25	3.8	4.6	2.2	14-	32	35	1	4.2	10	9.0	6.0				
40x32	1.1/2x1.1/4	1	1	48.3	28	35	6.1	7.9	22	25	1-0	1-1	4	2.7	13	35.0	29.5				
40x25	1.1/2x1	2	1	48.3	18	29	5.7	7.9	-	25	33	_	3	3.9	13	26.5	20.5				
40x20	1.1/2x3/4	2	2	48.3	19	25	4.9	7.0	-	<u>-</u>	33	40	2	7.2	13	21.0	15.5				
40x15	1.1/2x1/2	2	2	48.3	21	27	4.7	6.0	_	_	33	40	2	1.8	10	16.0	11.5				
40x10	1.1/2x3/8	2	2	48.3	22	28	4.0	5.0	-	_	33	40	1	.7.7	10	12.5	9.0				
50x40	2x1.1/2	1	1	60.3	32	47	6.4	8.9	25	40	_	_	4	8.8	13	41.0	34.0				
50x32	2x1.1/4	2	2	60.3	21	24	6.1	7.9	_	_	38	41	4	2.7	13	35.0	29.5				
50x25	2x1	2	2	60.3	22	25	5.7	7.9	0.5	_	38	41	3	3.9	13	26.5	21.0				
50x20	2x3/4	2	2	60.3	24	27	4.9	7.0	-	-	38	41	2	7.2	13	21.0	15.5				
50 x 15	2x1/2	2	2	60.3	25	28	4.7	6.0	-	.—	38	41	2	1.8	10	16.0	11.5				

上述尺寸符合MSS SP-97标准。

Above dimensions acc. to MSS SP-97.



支管台(管座)

OUTLET (MSS SP97, GB19326, Q/FG11-16)

支管台是国外近年来应用较多的,用于支管连接的补强型管件,代替传统使用的异径三通、补强板、加强管段等支管连接型式,具有安全可靠、造价低、施工简单、改善介质流道、系列标准化、设计选用方便等突出优点,尤其在高压、高温、大口径、厚壁管道中使用日盐广泛,取代了传统的支管连接方法。 支管台本体采用优质锻件,用材与管道材料相同,本公司提供碳钢、合金钢、不锈钢等多种材质方使用户选用。

支管台与主管均采用焊接,支管台与支管或其他管(如短管、丝增等)、仪表、阀门的连接有对焊、承插焊、螺纹等多种型式。

Outlet is used widely abroad in recent years, it is used to connect the reinforced fitting. It can replace the reducing tee, reinforce plate and reinforced pipe. It is used widely more and more in high pressure high temperature large diameter and thick wall pipe. As it is reliability, cheap, simple, good for flow, seriation, standardization and choose easily. It takes place of traditional connecting ways. The body of outlets is made in excellent Forgings. The material is same sa pipe's. Our company can make outlet from carbon steel. Alloy steel and stainless steel.

Outlet is welded to the main pipe. And is connected to the branch or other fittings such as nipple thread plug, instrument and valve by Butt-welding, Socket-welding and thread.

支管台形式有标准型、短管型、斜接型、弯头型。详见下表:

The type of outlet is standard, Nipolet, Latrolet and Elbolet. Detail as following list:

<u></u>	连接型式(支管台与支管) Connected type									
型式 Type	承衡焊 GB19326 Socket welded	資源紋 GB19328 Pipe thread	对焊 GB19328 Butt-welding							
标准型 Standard	SOL (MSS SP-97、Q/FG11 株准)	TOL (MSS SP-87. O/FG12###)	WOL(MSS SP-97、Q/FG13 标准							
短管型 Nipolet	SNL (Q/FQ14 标准)	TNL (Q/FQ14、SHB-PO1)	WNL (Q/FG14标准)							
斜接塑 (45°) Latrolet	SEL (Q/FG15标准)	TLL (Q/FG15、SHB-PO1)	WLL (Q/FG15 标准)							
夸头型 (1.5D) Elbolet		TEL (Q/FG16、SHB-PO1)	WEL (Q/FQ16 标准)							

样本所示均为适用于英制管的支管台产品系列,本公司也可生产适用于公制管的支管台产品(管螺纹型除外),用户在定货时应说明下列项目:

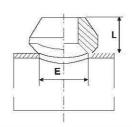
- ▶ 型式代号(支管台及连接型式);
- ▶ 支管及支管公称尺寸(如为公制管应注明外径尺寸)
- ▶ 支管及支管壁厚等级(如为公制管应注明壁厚尺寸)
- ▶ 管螺紋代号(仅指螺紋型)
- ▶ 高度(仅指短管支管台)

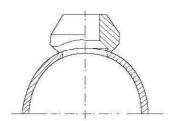


We only note the British outlet in the catalogue. But we also can make Metric outlet except threaded type. Following items shall be specified when purchase:

- Type;
- Nominal dimension of main and branch pipe. If it's metric, specify the out diameter;
- Schedule of main and branch pipe. If it's metric, specify the wall thickness;
- Thread code only for threadolet;
- Height only for Nipolet.







对焊支管台 WELDOLET

执行标准: MSS SP97、GB19326、Q/FG13

	R通径 Diameter	适用主管 Nominal Diameter	L			E			
DN	NPS	mm	in	STD	xs	xxs	STD	xs	xxs
6	1/8	20	3/4	15.9	-	-	15.9	-	_
8	1/4	20	3/4	15.9	_	_	15.9	_	1:1
10	3/8	25	1	19.1	_	_	19.1	2 1	-
15	1/2	32	1.1/4	19.1	19.1	28.6	23.8	23.8	14.3
20	3/4	40	1.1/2	22.2	22.2	31.8	30.2	30.2	19.1
25	1	40	1.1/2	27.0	27.0	38.1	36.5	36.5	25.4
32	1.1/4	65	2.1/2	31.8	31.8	44.5	44.5	44.5	33.3
40	1.1/2	65	2.1/2	33.3	33.3	50.8	50.8	50.8	38.1
50	2	80	3	38.1	38.1	8.6	65.1	65.1	42.9
65	2.1/2	100	4	41.3	41.3	61.9	76.2	76.2	54.0
80	3	125	5	44.5	44.5	73.0	93.7	93.7	77.0
90	3.1/2	150	rww 6tobo	47.0	47.0	4-1	101.6	101.6	_
100	4	150	6	50.8	50.8	84.1	120.7	120.7	98.4
125	5	200	8	57.2	57.2	93.7	141.3	141.3	122.5
150	6	200	8	60.3	77.8	104.8	169.9	169.9	146.
200	8	250	10	69.9	98.4		220.7	220.7	-
250	10	300	12	77.8	93.7	10-32 10-33	274.6	265.1	-
300	12	350	14	85.7	103.2		325.4	317.5	-
350	14	400	16	88.9	100.0		357.2	350.9	8. - -1
400	16	450	18	93.7	106.4	-	408.0	403.2	-
450	18	500	20	96.8	111.1	12 11 - 17	458.8	455.6	1—1
500	20	600	24	101.6	119.1	-	508.8	509.6	-
600	24	650	26	115.9	139.7		614.4	614.4	

说明.

- 1、 表列"适用主管公称通径"为一般用途,如需用用于更小的主管尺寸,应与制造厂协商。
- 2、 衰列 E 值适用于国际通用系列的钢管尺寸(英制管),如需用于国内沿用系列钢管(公制管),E 值将有所调整,但 L 值不变。
- 3、上表所列对焊支管台有 STD、XS、XSS 三种等级,选用较为复杂,为此,用户选用时,必须将主管及支管的公称通径及整厚等级注明,本公司可根据上述参数确定符合用户需要的支管 台等级及有关结构尺寸,如用于公制管,用户应注明主管及支管的外径和整厚尺寸。
- 4、 定货时必注明主管及支管尺寸、压力等级及材料编号。如: WOL 14 * x4 * Sch40xSTD 16Mn (用于英制管)

WOL 377x108 12x8

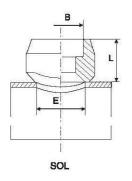
16Mn (用于公制管)

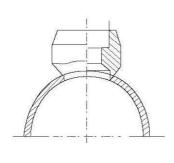
Note:

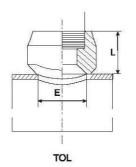
- 1. Normal diameter of suited main pipe as list is for ordinary use. If used to smaller main pipe, duscuss it with manufacturer.
- $\mathbf{2}_{\gamma}$ E is for international pipe. If used to metric pipe, E will be changed, But L is constant.
- 3. Three grades-STD, XS, XXS for weldolet. It's complicated to choose. So you shall specify DN dimension you need. If used for metric pipe. Specify OD and thickness.
- 4. Specify dimension of main and branch pipe, grade and material. For example: WOL 14"x4" Sch40xSTD 16Mn (British series)

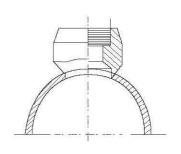
 WOL 377x108 12x8 16Mn (Metric series)











承插焊支管台 SOCKOLET

执行标准: MSS SP97、GB19326、Q/FG11

支管公称通径 Nominal Diameter of Branch		Nominal of Suited	F公称通径 Diameter Main Pipe N于 ➢	ι	_	E		
DN (mm)	NPS (in)	mm	in	3000LB	6000LB	3000LB	6000LB	
6	1/8	20	3/4	19.1	I	15.9	-	
8	1/4	20	3/4	19.1	1-	15.9	-/4	
10	3/8	25	1	20.6		19.1	-	
15	1/2	32	1.1/4	25.4	31.8	23.8	19.1	
20	3/4	40	1.1/2	27.0	36.5	30.2	25,4	
25	1	50	2	33.3	39.7	36.5	33.3	
32	1.1/4	65	2.1/2	33.3	41.3	44.5	38.1	
40	1.1/2	65	2.1/2	34.9	42.9	50.8	49.2	
50	2	80	3	38.1	52.4	65.1	69.9	
65	2.1/2	100	4	39.7	5: :	76.2	_	
80	3	125	5	44.5	a 	93.7		
100	4	150	6	47.6	_	120.7		

说明:

- 1、承插口尺寸B根据支管尺寸(英制管或公制管)的规定。
- 2、表列"适用主管公称通径"为一般用途,如需用于更小的主管尺寸应与 制造厂协商。
- 3、按下表选用支管台的压力等级,如用于公制管,用户应注明支管壁厚尺寸。

压力等级	适用支管 登厚等 级
Pressure Grade	Suitable shedule of branch
3000LB	Sch40, Sch80, STD, XS
6000LB	Sch160 XXS

- 4、秦列 E 值透用于国际通用系列的钢管尺寸(英制管),如需用国内沿用系列钢管(公制管),E 值将有所调整,但 L 值不变。
- 5、定货时必须说明主管及支管公称尺寸、压力等级及材料牌号(如用于公制管,应注明主管及主管外径尺寸和整厚)。

螺纹支管台 THREADOLET

执行标准: MSS SP97、GB19326、Q/FG12

Nor Diar	称通径 ninal neter ranch	适用主管 Nominal of Suited 不小	Diameter	l	-	E		
DN (mm)	NPS (in)	mm /	in	3000LB	6000LB	3000LB	6000LB	
6	1/8	20	3/4	19.1	-	15.9	-	
8	1/4	20	3/4	19.1	5 — -0	15.9	_	
10	3/8	25	910	20.6	-	19.1	2 - 1 3	
15	1/2	32	1,1/4	25.4	31.8	23.8	19.1	
20	3/4	40	1,1/2	27.0	36.5	30.2	25.4	
25	01 6	50	2	33.3	39.7	36.5	33.3	
32	1.1/4	65	2.1/2	33.3	41.3	44.5	38.1	
40	1.1/2	65	2.1/2	34.9	42.9	50.8	49.2	
50	2	80	3	38.1	52.4	65.1	69.9	
65	2.1/2	100	4	46.0	1-1	76.2	_	
80	3	125	5	50.8	0-1	93.7	_	
100	4	150	6	57.2	_	120.7	_	

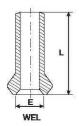
说明:

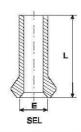
- 1、锥管螺紋可按 ANSI B1.20.1 NPT或 ISO7/1 Rp或 Rc 锥管螺纹,尺寸同支管公称通径 (In),用户需注明锥管螺纹代号。
- 2、衰列"适用主管公称通径"为一般用途,如需用于更小的主管尺寸应 与制造厂协商。
- 3、按下表选用支管台的压力等级:

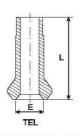
压力等级	适用支管壁厚等级
Pressure Grade	Suitable shedule of branch
3000LB	Sch40, Sch80, STD, XS
6000LB	Sch160 XXS

- 4、螺纹支管台仅适用于国际通用系列的钢管(英制管)。
- 5、定货时必須注明主管及支管公称尺寸、压力等级、材料牌号、螺 紋代号。











执行标准: MSS SP97、GB19326、Q/FG14

支管公称通径 Nominal Diameter of Branchh		Nominal of Sulted	r公称通径 Diameter Main Pipe \于 ≥	I	L	
DN NPS (mm) (in)		mm	in	3000LB	6000LB	
15	1/2	32	1.1/4	23.8	14.3	
20	3/4	40	1.1/2	30.2	19.1	-
25	1	50	2	36.5	25.4	100
32	1.1/4	65	2.1/2	44.5	33.3	150
40	1.1/2	65	2.1/2	50.8	38.1	dia.
50	2	80	3	65.1	49.2	

说明:

- 1、短管支管台长度L应在订货时说明。 Specify the length of Nipolet when order
- 2、 短管支管台上端的型式有:

Type of Nipolet top end

SNL 平端 Flat end

用于承插焊 For socket weld

WNL 坡口端 Beveled TNL 维管螺纹(外)

用于对焊 For butt weld

NPT或 Rc (订货时应予说明

Specify when order)

3、 按下表选用支管台的压力等级(用于英制管):

To choose the pressure grade to the following list (British series)

压力等级	适用支管壁厚等级
Pressure Grade	Suitable shedule of branch
3000LB	Sch40, Sch80, STD, XS
6000LB	Sch160 XXS

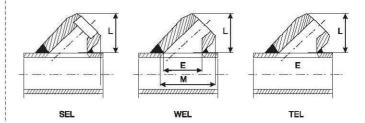
4、表列E值适用于国际通用系列的钢管尺寸(英制管),如需用于国内沿用系列钢管(公制管),E值将有所调整,但L值不变。

E is for international pipe. If used to metric pipe, E will be changed, But L is constant.

5、定货时必须注明主管及支管公称尺寸、压力等级、长度及材料牌号(如 用于公制管,应注明主管及支管外径和登厚尺寸)。

Specify nominal dimension of main and branch pipe, Pressure grade and material. If used for metric pipe, Specify the outer diameter and wall thickness of main and branch pipe:

SNL 10"x1.1/2" 3000LB L100 304 (用于英制管 British series) TNL 159x25 8x3 L150 20 (用于公制管 Metric series)



斜接支管台 LATIOLET

执行标准: MSS SP97、GB19326、Q/FG15

支管公称通径 Nominal Diameter of Branchh		Nominal of Suited	T公称通径 Diameter Main Pipe N于 ≥	Ĺ	E	М
DN (mm)	NPS (in)	mm	in		3000LB	
8	1/4	32	1.1/4	40	37	59
10	3/8	32	1.1/4	40	37	59
15	1/2	32	1.1/4	40	37	59
20	3/4	40	1.1/2	46	44	70
25	1	50	2	54	54	83
32	1.1/4	65	2.1/2	64	67	97
40	1.1/2	80	3	70	78	108
50	2	100	4	86	100	137

· 田 ·

1、斜接支管台上端型式有三种选用时应注明:

Three type of latrolet top end. Specify when choose.

WLL 对焊 butt weld

SLL 承插口 Socket weld

TLL 维普螺纹(内)NPT或Rc(订货时应予说明 Specify when order)

2、3000Lb級斜接支管台适用于下列支管验厚等级(用于英制管) Latrolet which pressure grade is 3000LB is suitable to following list(British series)

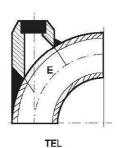
压力等级	适用支管壁厚等级
Pressure Grade	Suitable shedule of branch
3000LB	Sch40, Sch80, STD, XS

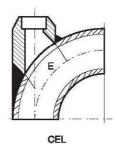
3、订货时必须说明主管及支管公称尺寸、压力等级、材料牌号,如用于公制管,应注明主管及支管外径和整厚尺寸。

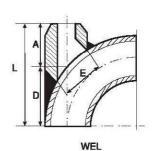
Specify nominal dimension of main and branch pipe, Pressure grade, material. If used to metric pipe specify the outer diameter and wall thickness of main branch pipe.

SLL 4*x1/2" 3000LB 20 (用于英制管 British series) WLL 108x18 3000LB 20 (用于公制管 Metric series)









弯头支管台 Elbolet

执行标准: MSS SP97、GB19326、Q/FG16

支管公称通径 Nominal Diameter of Branch		Nominal Diameter	N公称通径 Ⅲ r of Suited Main Pipe 小于 ≥	E	A	L
DN (mm)	NPS (in)	mm	in		3000LB	
8	1/4	32	1.1/4	38	40	
10	3/8	32	1.1/4	38	40	
15	1/2	32	1.1/4	38	40	
20	3/4	40	1.1/2	44	48	A+D
25	1	50	2	57	67	ATD
32	1.1/4	65	2.1/2	73	64	
40	1.1/2	80	3	79	68	
50	2	100	4 6 4	106	83	

www.tobotgroup.com

说明:

- 1、尺寸 D 适于 ANSI B16.9 的长半径 90°弯头
- 2、夸头支管台的上端型式有三种,选用时应注明: WEL —对焊 SEL —承插口 TEL 锥管螺纹—(内)NPT或Rc、Rp
- 3、3000LB级弯头支管台适用于下列支管壁厚等级:

压力等级	适用支管壁厚等级
Pressure Grade	Suitable shedule of branch
3000LB	Sch40, Sch80, STD, XS

4、订货时应注明弯头及支管公称尺寸、压力等级、材料编号,如用于公制管,应注明主管及支管外径和验厚尺寸。

TEL 4"x1.1/2" 3000LB 20 (用于英制管) SEL 108x18 6x3 20 (用于公制管)

Note:

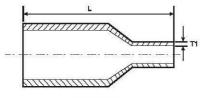
- 1, Size D is suitable to 90 Degree LR elbow according to ANSI B16.9.
- 2、Three type of elbolet top end, specify when choose:WEL —对焊 SEL —承插口 TEL 锥管螺纹—(内)NPT或Rc、Rp
- 3. Elbolet which pressure grade is 3000LB is suitable to the following branch schedule: Sch40, Sch80, STD, XS.
- 4. Specify nominal dimension of main and branch pipe, pressure grade, material and thread code:

TEL 4"x1.1/2" 3000LB 20 (For British series)
SEL 108x18 6x3 20 (For Metric series)

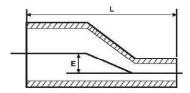
配用弯头尺寸 Mating Elbow Dimension

弯头	mm	32	40	50	65	80	100	150	200	250	300
公称通径	in	1.1/4	1.1/2	2	2.1/2	3	4	6	8	10	12
size	D	50	54	72	93	108	144	218	290	362	434





同心异径短节 Concentric Swaged Nipple



偏心异径短节 Eccentric Swaged Nipple

异径短节 SWAGE NIPPLE

公称通径 No	minal Diameter	L	E
DN	NPS	_	-
10x8	3/8x1/4	64	1.7
15x8	1/2x1/4	70	1.9
15x10	1/2x3/8	70	1.05
20x8	3/4x1/4	76	6.5
20x10	3/4x3/8	76	4.8
20x15	3/4x1/2	76	2.7
25x8	1x1/4	89	10.2
25x10	1x3/8	89	8.6
25x15	1x1/2	89	6.5
25x20	1x3/4	89	3.0
32x8	1.1/4x1/4	102	14.2
32x10	1.1/4x3/8	102	12.5
32x15	1.1/4x1/2	102	10.4
32x20	1.1/4x3/4	102	7.7
32x25	1.1/4x1	102	3.9
40x8	1.1/2x1/4	114	17.3
40x10	1.1/2x3/8	114	15.6
40x15	1.1/2x1/2	114	13.5
40x20	1.1/2x3/4	114 11 11 11	12.6
40x25	1.1/2x1	114	6.9
40x32	1.1/2x1.1/4	114	3.0
50x8	2x1/4	165	23.3
50x10	2x3/8	165	21.6
50x15	2x1/2	165	19.5
50x20	2x3/4	165	16.8

公称通径 No	minal Diameter	L	Е
DN	NPS	L	
50x25	2x1	165	13.0
50x32	2x1.1/4	165	9.1
50x40	2x2.1/2	165	6.0
65x15	2.1/2x1/2	178	25.1
65x20	2.1/2x3/4	178	23.2
65x25	2.1/2x1	178	19.4
65x32	2.1/2x1.1/4	178	15.5
65x40	2.1/2x1.1/2	178	12.4
65x50	2.1/2x12	178	6.4
80x15	3x1/2	203	33.8
80x20	3x3/4	203	31.1
80x25	3x1	203	27.3
80x32	3x1.1/4	203	23.4
80x40	3x1.1/2	203	20.3
80x50	3x2	203	14.3
8 0x 65	3x2.1/2	203	7.9
100x15	4x1/2	229	46.5
100x20	4x3/4	229	43.8
100x25	4x1	229	40.0
100x32	4x1.1/4	229	36.1
100x40	4x1.1/2	229	33.0
100x50	4x2	229	27.0
100x65	4x2.1/2	229	20.6
100x80	4x3	229	12.7

说明:

- 1、选用时,应予注明,对锥管螺纹还应注明 NPT或R。
- 2、异型短节大端及小端型式分别有平端、坡口端、维管外螺纹端三种,大、小端的各种组合共计有九种配合可能,如下表示:

型式 Type	大端 Large End	小端 Small End	代号 Code
A	w	平	BEP
В	平 Plain	坡口	LEP/SEB
С	Fiaili	螺紋	LEP/SET
D	П Bevel	平	LEB/SEP
E		坡口	BEB
F		螺紋	LEB/SET
G	488 24.	平	LET/SEP
Н	螺 紋 Thread	坡口	LET/SEB
ı		螺纹	BET

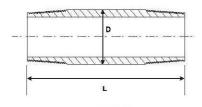
3、异径短节壁厚一般为 Sch80(3000LB)、Sch160(6000LB), 平端、坡口端或管螺纹端。

Note:

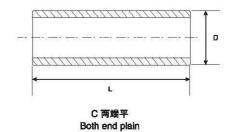
- 1. Specify NPT or R when order.
- 2. The end type for swage nipple is Plain, Bevel and NPT. As listed. There are nine kind mating type.
- 3. The wall thickness for swage nipple is Sch80(3000LB) and Sch160(6000LB), Plain. Bevel or Thread.

上述尺寸符合MSS SP95、BS3799 标准。Above dimensions acc.to MSS SP95、BS3799.





______D



A 两端管螺纹 Both end thread

B 一端管螺紋一端平 One end thread and one end plain

短节 NIPPLE

国际通用系列钢管(英制管) British Pipe

	x通径 Diameter	外径 Outside Diameter	Sch40 STD Sch80	Sch160 XXS	L
DN	NPS	D	xs		
8	1/4	13.5	0		
10	3/8	17.2	0		
15	1/2	21.3	0	0	60
20	3/4	26.7	0	0	90 120
25	1	33.4	0	0	150
32	1.1/4	42.2		0	180
40	1.1/2	48.3	TOU	0.0	
50	2	www eotabbone	roupo.com	0	

国内沿用系列钢管(公制管) Metric Pipe

公称通径 Nominal Diameter DN	外径 Outside Diameter D	厚度 Thickness	长度 Length
10	14		
15	18	100	
20	25		
25	32	2-5	150 200
32	38		
40	45		
50	57		

说明:

- 1、短管(英制管)有A、B、C三种型式,短管(公制管)仅有C型。
- 2、订货示例: A(NPT) 1/2" Sch80 L150 304 不銹鋼 (英制管), 中18x2 L100 20 鋼 (公制管)

Note:

- 1. The type fo nipple is A. B. C for British Pipe and only type C for Metric nipple.
- 2、Example: A(NPT) 1/2" Sch80 L150 304 S.S(British Pipe), \$\phi\$18x2 L100 20# (Metric Pipe)

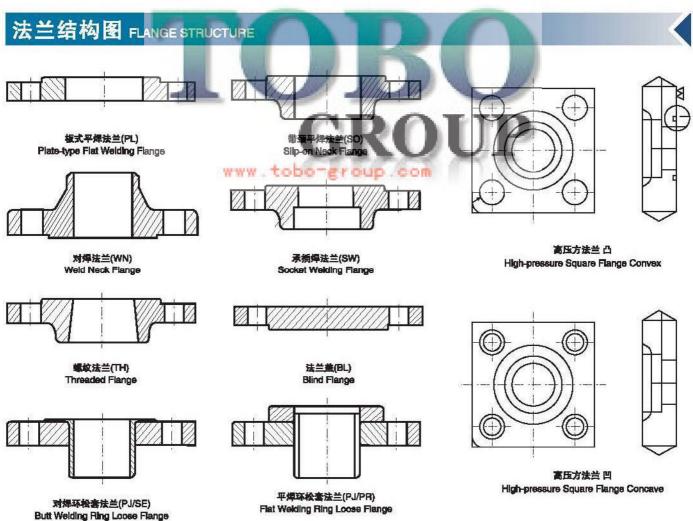
锻造法兰 FORGED FLANGE



法兰剖面图 FLANGE CUT PLANE

密封面参数 PARAMETER OF SEALED COVER





注:由于法兰的制造标准及规格较多,本公司在此不提供详细规格参数,用户如需要可另提供,非标法兰可按用户图纸加工制造。

锻造法兰 FORGED FLANGE



美标系列 AMERICAN STANDARD SERIES

标准号 Standard Code	通径范围 Diameter Range	压力等级 Pressure Grade
ANSI B16.5(88)	1/2"-24"	Class 150, 300, 600, 900, 1500, 2500
ANSI B16.47(90)	26"~60"	Class 150, 300, 600, 900
ASME B16.5(96)	1/2"~24"	Class 150, 300, 600, 900, 1500, 2500
ISO7005-1(92)	1/2"~24"	PN2.0 5.0 11.0 15.0 26.0 42.0
BS4504-3.1(89)	1/2"-24"	Class 150, 300, 600, 900, 1500, 2500
JPI 7S-45-93	1/2"~24"	Class 150, 300, 600, 900, 1500, 2500
NF E29-203	1/2"~24"	PN2.0 5.0 11.0 15.0 26.0 42.0
API605-81	26"~60"	Class 150, 300, 600
ASME B16.36(96)	1"~24"	Class 300, 400, 600, 900, 1500, 2500

德标系列 GERMAN STANDARD SERIES

标准号 Standard Code	通径范围 Diameter Range	压力等级 Pressure Grade
DIN 2630 WN	DN1200-DN4000	1 Bar
DIN 2631 WN	DN10-DN3600	6 Bar
DIN 2632WN	DN200~DN3000	10 Bar
DIN 2633WN	DN10~DN2000	16 Bar
DIN 2634WN	DN200~DN1000	25 Bar
DIN 2635WN	DN10~DN500	40 Bar
DIN 2636WN	DN10~DN400	64 Bar
DIN 2637WN	DN10~DN350	100 Bar
DIN 2638WN	DN10~DN300	160 Bar
DIN 2573PL	DN10~DN500	6 Bar
DIN 2576PL	DN10~DN500	10 Bar
DIN 2527BL	DN10~DN500	6 10 16 25 40 Bar
DIN 2501WN	DN15~DN500	10 16 25 40 63 100 160 250 320 400 Bar
DIN 2566TH	DN15~DN150	10 16 Bar
DIN 2655PL	DN15~DN500	0.25 0.6 1.0 1.6 2.5 4.0 Bar
DIN 2656PL	DN15~DN500	0.25 0.6 1.0 1.6 2.5 4.0 Bar

锻造法兰 FORGED FLANGE



日标系列 JAPANESE STANDARD SERIES

标准号 Standard Code	通径范围 Diameter Range	压力等级 Pressure Grade
JIS B 2220 PL	DN10~DN400	5K
JIS B 2220 SO	DN450~DN1000	5K
JIS B 2220 PL	DN10~DN225	10K
JIS B 2220 SO	DN250~DN1000	10K
JIS B 2220 SO	DN10~DN1200	16K 20K 30K
JIS B 2220 WN	DN15~DN400	30K

国标系列 NATIONAL STANDARD SERIES

标准号 Standard Code	通 径范围 Diameter Range	压力等级 Pressure Grade
GB/T 9112-9113.4-2000	DN10-DN2000	PN 0.25 0.6 1.0 2.5 4.0 6.3 10.0 16.0 Mpa
JB/T 74-86.2-94	DN10~DN1600	PN 0.25 0.6 1.0 2.5 4.0 6.3 10.0 16.0 20.0 Mpa
HG 20592-20626-07	DN10~DN2000	PN 0.25 0.6 1.0 2.0 2.5 4.0 5.0 6.3 10.0 11.0 15.0 16.0 25.0 26.0 42.0 Mpa
SH 3406-96	DN10~DN1500	PN 1.0 2.0 5.0 6.8 10.0 15.0 25.0 42.0 Mpa
GB/T 17241.1-17241.7	DN10~DN4000	PN 0.25 0.6 1.0 1.6 2.0 2.5 4.0 5.0 Mpa
GB/T 15530.1-15530.8	DN10~DN1800	PN 0.6 1.0 1.6 2.0 2.5 4.0 5.0 Mpa

电力部系列 POWER MINISTRY STANDARD SERIES

标准号 Standard Code	通径范围 Diameter Range	压力等级 Pressure Grade
D-GD86-0510-0537	DN15~DN2000	PN 0.25 0.6 1.0 1.6 2.5 4.0 6.4 10.0 Mpa
DG0511-0541	DN15~DN1000	PN 0.25 0.6 1.0 1.6 2.5 4.0 6.4 10.0 20.0 32.0 Mpa

压力容器系列 PRESSURE VESSEL STANDARD SERIES

标准号 Standard Code	通径范围 Diameter Range	压力等级 Pressure Grade
JB/T 4701-2000(甲型)	DN300~DN2000	PN 0.25 0.6 1.0 1.6 10.0 Mpa
JB/T 4702-2000(乙型)	DN300~DN3000	PN 0.25 0.6 1.0 1.6 2.5 4.0 Mpa
JB/T 4703-2000(长嶺)	DN300~DN2000	PN 0.6 1.0 1.6 2.5 4.0 6.4 Mpa

船用系列 SHIPPING STANDARD SERIES

标准号 Standard Code	通径范围 Diameter Range	压力等级 Pressure Grade
GB573-681-76	DN20~DN500	PN 0.6 1.0 1.6 2.5 4.0 6.4 Mpa
GB2506-2507-89	DN10~DN2000	PN 0.25 0.6 1.0 1.6 2.5 Mpa
GB4450-84	DN20~DN500	PN 0.6 1.0 1.6 Mpa
GB10746-10749-89	DN10~DN600	PN 0.6 1.0 1.6 2.5 4.0 6.4 Mpa

法兰材料 FLANG MATERIAL

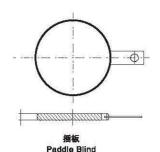
锻造法兰 FORGED FLANGE

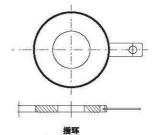


					化	化学成分(%)Chemical Composition	mical Con	nposition	70				<4 €	核	机械性能 Machanical Properties	机械性能 vanical Propert		
盘巾 Steel No.	新希Standard	C	ā	2	QM	č	>	F	а.	Ø	ΪZ	D.O.	かります。	处理状	抗拉强度		母母	東田田
			5		Ē	5	•	34			V		E	Ké	∑ b/MPa	Σs/ MPa	8 (%)	
82	JB4726-2000		0.17-0.23 0.17-0.37	0.60-1.00	J	≤0.2	Ĭ		0:030	0.020	0.25	0.25	% S	z	390-540	215	54	106-159
æ	JB4726-2000		0.32-0.38 0.17-0.37	0.50-0.80	L	≤0.2	I	-	0.030	0.020	0.25	0.25	∧ 5	z	510-670	265	<u>co</u>	136-200
16Mn	JB4726-2000 0.13-0.19 0.20-0.60 1.20-4.60	0.13-0.19	0.20-0.60	1.20-1.60	_;;	≤0.3	www		0.030	0.020	0.25	0.25	√ 300 k	N,N+T	450-600	275	20	121-178
1Cr5Mo	JB4726-2000	≥0.1	≤0.5	€0.6	0.45-0.65	4.00-6.00	, to	-	0.030	0.020	0.50	0.25	≥ 200	N+T, D+T	590-760	290	<u>00</u>	174-229
15CrMo	JB4726-2000		0.12-0.18 0.10-0.60	0.30-0.80	0.45-0.65	0.80-4.25	bo-e	6	0.030	0.020	0:30	0.25	v 06	7+7 7+7	440-610	275	50	118-180
35СгМо	JB4726-2000		0.32-0.38 0.17-0.37	0.40-0.70	0.15-0.25	0.804.10	grou	5	0:030	0.020	0:30	0.25	v 06	T+9	620-790	04	ŤŪ.	185-235
12Cr1MoV	JB4726-2000 0.09-0.15 0.17-0.37	0.09-0.15	0.17-0.37	0.40-0.70	0.25-0.35	0.90-4.20	0.15-9.30		0.030	0.020	0:30	0.25	v 00	F + O	440-610	255	<u>0</u>	118-180
0Cr18Ni9 (304)	JB4728-2000	€0.0	€1.0	≤2.0	1	17.00-49.00	om		≥ 0.035	0.030	8.0041.00	ı	∧ 5	ဟ	520	205	35	139-487
00Cr19NI10 (304L)	JB4728-2000	€0.0	€1.0	<2.0	ı	18.00-20.00	V		0.035	0.030	8.00-42.00	ı	∧ 5	တ	480	175	35	128-187
0Cr17Ni12Mo2 (316)	JB4728-2000	€0.0	€1.0	<2.0	2.00-8.00	16.00-48.00	T	D	≥ 0.035	0.030	10.00-14.00	1	≥ 0 1	S	520	205	32	139-487
00Cr17Ni14Mo2 (316L)	JB4728-2000	€0.0	≤1.0	≤2.0	2.00-3.00	16.00-48.00	1	1	0.035	₩ 0.030	12.00-45.00	L	№ 5	ဟ	480	175	32	128-187
1Cr18Ni9Ti 321	JB4728-2000	≤0.1	¥1.0	≤2.0	1	17.00-49.00	I	5(C%-0.02)	0.035	≥ 0.030	8.00-41.00	ı	∧ 5	တ	520	205	88	139-487
OC/18NI10TI	JB4728-2000	€0.0	≤1.0	<2.0	Ţ	17.00-49.00	1	% ×9€	≥ 0.035	≥ 0.030	9.00-12.00	1	≽ 00 t	Ø	520	205	35	139487
0Cr18Ni12Mo2TI JB4728-2000 3:6TI	JB4728-2000	€0.0	≤1.0	<2.0	1.80-2.50	16.00-49.00	T	≽5×C% -0.70	0.035	≥ 0.030	11.00-14.00	ï	∧ 5	ဟ	250	205	88	139-487

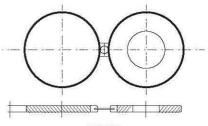
锻造法兰 FORGED FLANGE







Paddle Space



八字盲板 Figure 8 Blind

插板、插环、八字盲板 Blind, Figure 8 Blind

插板、插环、八字盲板的厚度(美国体系管法兰用) Blind, Figure 8 Blind (For Pipe Flange of American System) mm

	通径 Diameter	150LB	300LB	600LB	900LB	1500LB	2500LB
DN	NPS	2.0MPa	5.0MPa	10.0MPa	15.0MPa	25.0MPa	42.0MPa
15	1/2	3	6	6	6	6	10
20	3/4	3	6	6	6	10	10
25	1	3	6	6	6	10	10
32	1.1/4	6	6	10	10	10	13
40	1.1/2	6	6	10	10	13	16
50	2	6	10	10	13	13	16
65	2.1/2	6	10	13	13	16	19
80	3	6	10	13	16	19	22
90	3.1/2	10	13	16 🖷	ww.t	obo-	grou
100	4	10	13	16	19	22	28
125	5	10	16	19	22	28	35
150	6	13	16	22	25	35	41
200	8	13	22	28	35	41	54
250	10	16	25	35	41	51	67
300	12	19	28	41	48	60	79
350	14	19	32	44	54	67	-
400	16	22	38	51	60	76	-
450	18	25	41	54	67	86	1 1
500	20	28	44	64	73	95	1 - L
600	24	32	51	73	89	111	_

	~	_
详	朋	

- 1、本系列产品符合API590要求,用于符合下列要求的突面法兰: ANSI B16.5、 SH3406、ISO7005-1、GB9112-9124、HG20615(美洲体系)。
- 2、官板、插环及八字官板厚度均已包括腐蚀裕量: 碳钢、低合金钢、低温钢裕量为1.3mm;
- 不锈钢裕量为0mm 3、本系列产品适用于平墊片,如用于其它型式垫片(如八角墊等)应与制造厂协商, 并调整厚度。
- 4、也可按HG21547-93要求生产。

公称通径 Nominal Diameter	0.6MPa	1.0MPa	1.6MPa	2.5MPa	4.0MPa
DN		AC-HAROMANI-COM			
15	8	8	8	8	8
20	8	8	8	8	8
25	8	8	8	8	9/8
32	8	8	8	8	10/8
40	8	8	8	9/8	10/8
50	8	8	9/8	10/8	12/10
65	3	8	10/8	11/9	13/11
80	-	8	10/8	12/10	14/12
COM ₁₀₀	10/8	8	12/10	14/12	16/14
125	11/9	9/8	13/11	16/14	19/17
150	12/10	10/8	15/13	17/15	21/19
200	14/12	12/10	17/15	21/19	27/25
250	17/15	13/11	20/18	25/23	32/30
300	19/17	15/13	23/21	29/27	37/35
350	21/19	17/15	26/24	33/31	42/40
400	23/21	18/16	29/27	36/34	48/46
450	25/23	20/18	32/30	39/37	50/48
500	28/26	22/20	35/33	43/41	54/52
600	32/30	25/23	41/39	51/49	65/62

说明:

- 本系列产品符合HG21547-93要求,用于符合下列要求的突面法
 GB9113-9122、HG20592(欧洲体系)、ISO7005-1、DIN、JB管法兰。
- 2、盲板、循环及八字盲板厚度均已包括腐蚀裕量: 碳钢、低合金钢、低温钢裕量为2.0mm; 不锈钢裕量为0mm。
 - 上述表中有分子/分母P者,分子为碳钢,低合金钢厚度,分母为不锈钢厚度。
- 3、本系列产品适用于平益片,如用于其它型式垫片(如八角墊等)应与制造厂协商,并调整厚度。

绝缘法兰 INSULATING JOINT



绝缘法兰 INSOLUTING FLANGE

绝缘法兰是对同时具有堪地钢质管道要求的密對性能和电法腐蚀防护工程所要求的电绝缘性能 的管道法兰接头的统称。它包括一对钢质法兰、两法兰间的绝缘密封件、法兰紧固件和紧固件 绝缘零件以及与两片法兰已分别相焊的一对钢质短管。

绝缘法兰与绝缘接头是我公司多年来为石油、化工等行业生产的产品,它结构简单,使用安全,性能可靠,得到用户广泛好评。绝缘法兰产品已形成系列,当有特殊情况时,可依据用户要求另行设计制造。

Insulating flange is a generic term of pipe flange joints with requirements in sealing performance of buried steel pipes and electrical insulation properties of electrocorrosion pipes. It include a pair of steel flanges, an insulating and sealing article between two flanges, a flange fastener, insulating parts of fastener and a short steel pipe between two flanges with each end welded.

The insulating flanges and joints are specially designed and produced for petroleum, chemical and other industries related by us. With their simple structures, safe operations and reliable performance, they have always enjoyed a great popularity among all customers. These insulating flanges have already matured, and in case of any special requirements, they may be customized upon all customers' demands.

www.tobo



一、产品用途

色敏法兰主要应用于燃气输配管线和燃气调压、计量、存储等设备 之间,其主要作用是将燃气输配管线的各股间、设备与管线间相互绝缘 隔离,保护其不受化学腐蚀,延长 管线和设备使用寿命。

产品符合SY/T0516-1997《绝缘法兰设计技术规定》标准。

Usage

Insulating flanges are mainly applied to gas transmission pipelines, gas regulators, gauges, storages, etc., with their main functions to separate and insulate different segments of gas transmission pipes, devices and lines, protect them from any chemical corresion and prolong their service life. Follow the standard SY/T0516-1997 "The technic of design for insulating flange"

二、分类

本产品按其绝缘密封件结构的不同分为比压密封型绝缘法兰(简称Ⅰ型绝缘法兰)和自票密封型绝缘法兰(简称Ⅱ型绝缘法兰)两种。Ⅰ型绝缘法兰进用压力等级PN<2.5MPa。

Category

These products may be classified into two groups by the insulating sealing parts, which are specific-pressure sealed insulating flanges (for short, I-type insulating flanges) and self-tightening seal insulating flanges (for short, II-type insulating flanges). Scope of application of the I-type insulating flanges: nominal pressure (PN) $\leqslant 2.5 \text{MPa}$.

三、特点

- 1、具有埋地营道电法腐蚀防护工程所要求的电绝缘性能。
- 2、能在管辖介质要求的温度、压力下长期可靠的工作,有足够的强度和 密封性能。
- 3、结构合理、组装、拆卸、更换零件方便。

Features

- 1. With electrical insulation properties of electro-corrosion pipes;
- With durable and reliable performance at a designed temperature and pressure for pipeline mediums, sufficient strength and good air-proof ability;
- 3. With rational structure, easy assembly/disassembly and replacement.

四、主要技术参数

- 1、适用介质:天然气、城市煤气、液化石油气、轻质油等。
- 2、介质温度: -10° +60°C。
- 3、环境温度: -20° +60°C。
- 4、絶緣电阻: 2500K
- 5、击穿电压: ≥8KV。
- 6、压力范围: PN0.6MPa、PN1.0MPa、PN1.6MPa、PN2.5MPa
- 7、产品规格: DN50 DN1200

Mainly Specification

- 1. Suitable for natural gas, city gas, LPG and gently oil.
- 2. Medium Temperature: -10° +60°C.
- 3. Ambient Temperature: -20° +60°C.
- 4. Insulating Resistance: ≥600K
- 5. Breakdown Voltage: ≥8KV
- 6, Pressure Range: PN0.6MPa, PN1.0MPa, PN1.6MPa, PN2.5Mpa.
- 7. Specs: DN50 DN1200

绝缘接头 INSULATING JOINT



绝缘接头

绝缘接头是燃气物配和石油管线系统中不可缺少的重要管道附件,主要应用于燃气物配系统和燃气调压站,其作用是将燃气物配管线的各股间、燃气调压站与输配管线间相互绝缘隔离,保护其不受电化学腐蚀,延长使用寿命,还可直接埋地使用。本公司的整体式绝缘接头是在同国外产品进行对比、分析、研究的基础上着重针对我国燃气输配管线中经常出现的泄漏问题进行设计的。

The insulating joint is the key component in natural gas distribution & oil transmission, which is mainly applied in gas reducing station in gas distribution field. The main function is to realize insulation among gas pipelines and between gas station and pipelines in order to avoid the corruption from electricity and chemical reaction and thus to extend the life of use, The product is designed specifically for the leakage problem frequently existed in gas transmission line.



设计依据和技术、性能水平

- 1、中华人民共和国国家标准 GB150-1998《铜铜压力容器》:
- 2、根据 GB50251-94 《输气管道工程设计规范》对管道进行强度计算;
- 3、保留国外产品优良特性;
- 4、利用"冗余"设计原理进行密封结构设计,密封性能更为可靠。
- 5、采用特殊结构措施,提高其抗弯曲载荷的能力; +000-27
- 6、工作参数:
- ◇ 适用介质:城市煤气、天然气、液化石油气及其它非腐蚀性 介质:
- ◇ 压力等级: PN25、PN40、PN64
- ◇ 环境温度: -20°C~+60°C
- ◇ 總鐵电阻: ≥100M
- ◇ 击穿电压: ≥9KV/50HZ
- ◇ 工作温度: -10°C~+50°C

它的电性能指标与国外产品完全一数,而我公司对于产品内部 控制的某些指标大大高于以上数值。

Features

- Design according to national standard is GB150-1998 steel pressure vessel";
- 2. Make the strength calculation according to national standard G350251-94 gas pipeline construction design code";
- 3. The same excellent characteristics as European level;
- 4. Redundant sealing structure design leading to a more reliable function;
- Special structure to increase to increase the anti-bending strength;
- 6. Specification:
- Suitable forcity gas, natural gas, LPG, other non-corrosive gas
- ♦ Pressure class:PN25、PN40、PN65
- ♦ Ambient temperature:-20°C~+60°C
- ♦ Insulation resistance: ≥ 00M
- ♦ Maximum voltage: ≥8KV/50HZ
- ♦ Working temperature:-10°C~+50°C

The real electrical resistance performance of the products is even better than the above statistics.

产品结构和工作原理

整体式绝缘接头由下面各零件组成:上、下导管、套筒、绝缘件、密射件、绝缘激层。在绝缘接头的上、下导管对接端面间,夹有绝缘件和密封件,形成具有绝缘性能的双密封结构。套筒采用坡口焊接或与上导管直接焊接两种形式,将绝缘件和上、下管牢固封裹在里面,形成"密封容器",从而既保证了良好的绝缘效果,又大大提高了绝缘接头的录压能力。

Structure

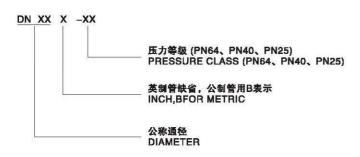
The product is composed by the following parts upper and lower pipe, glove pipe, insulating part, sealing part, insulating painting. Between the upper and lower pipes, there are insulating part and sealing part thus to form the double sealing structure. The glove pipe adopts slope welding or direct welding in order to realize a sealing pace."

绝缘接头 INSULATING JOINT



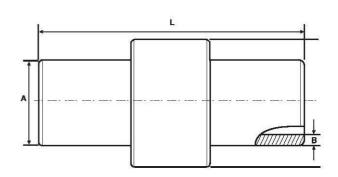
型号说明 MODEL EXPANATION

外型尺寸 DIMENSIONS



DN400B-64代表公称通径为DN400,压力等级为6.4Mpa的整体式绝缘接头,采用公制管。

For example: DN400B-64 represents the insulating joint of DN400 and 6.4 Mpa press class .



绝缘接头(PN25) INSULATING JOINT

单位(Unit):mm

型号Type	规格 Specification	A	В		钢管材质 Steel pipe materi
DN25-25	DNOT	34	4	250	7
DN25B-25	DN25	32	4	250	
DN40-25	DN40	48		300	
DN50-25	DN50	60	4	350	5
DN50B-25	DNau	57		350	
DN65-25	DN65	www ⁷⁶ +oh	arolin con	350	
DN80-25	DN80	89	5	400	
DN100-25	DNI400	114	5	400	鋼管(Steel Pipe) 20
DN100B-25	DN100	108	5	400	ME (Oroci i ibo) Eo
DN125-25	DN125	140	6	500	GB/T8163
DN125B-25	DN123	133	6	500	
DN150-25	DN150	168	7	500	
DN150B-25	Divisor	159	7	500	
DN200-25	DN200	219	7	500	
DN250-25	DN250	273	8	800	
DN300-25	DN300	325	8	800	
DN350-25	DN350	356	8	900	
DN350B-25	Divido	377	8	900	
DN400-25	DN400	406	8	900	
DN400B-25	DN400	426	8	900	
DN450-25	DN450	457	8	900	
DN450B-25	DITTO	480	8	900	
DN500-25	DN500	508	10	900	feeth (Disa) done in
DN500B-25	70077.7	530	10	900	钢管(Steel Pipe) 16MnR
DN600-25	DN600	610	10	1000	GB6654
DN600B-25	DNOO	630	10	1000	
DN700-25	DN700	711	10	1200	
DN700B-25	DN700	720	10	1200	
DN800-25	DN800	813	12	1300	
DN800B-25	Distor	820	12	1300	

绝缘接头 INSULATING JOINT



绝缘接头(PN40) INSULATING JOINT



型号Type	规格 Specification	A	В	L	钢管材质 Steel pipe materia	
DN25-40	DN25	34	4	250		
DN25B-40	DINZO	32	4	250		
DN40-40	DN40	48	4	300		
DN50-40	DN50	60	4	350		
DN50B-40	DNOU	57	4	350		
DN65-40	DN65	76	5	350		
DN80-40	DN80	89	5	400		
DN100-40	DN100	114	5	400		
DN100B-40	DINTOU	108	5	400	钢管(Steel Pipe) 20	
DN125-40	DN125	140	6	500	GB/T8163	
DN125B-40	DN 125	133	6	500		
DN150-40	DN150	168	7	500		
DN150B-40	טפו אם	159	7	500		
DN200-40	DN200	219	7	500		
DN250-40	DN250	273	8	800		
DN300-40	DN300	325	10	800		
DN350-40	DN350	356	12	900		
DN350B-40	DN350	377	12	900		
DN400-40	DN400	406	10	900		
DN400B-40	DINAUU	426	10	900		
DN450-40	DN450	457	10	900		
DN450B-40	DN450	480	10	900		
DN500-40	DN500	508	12	900		
DN500B-40	DNSO	530	12	900	钢板(Steel Plate) 16MnR	
DN600-40	DN600	610	NT C	1000	water interior	
DN600B-40	DNGOO	630	14	1000		
DN700-40	DN700	711	14	1200		
DN700B-40	DM/00	720	14	1200		
DN800-40	DNROO	www.813-000	Terous com	1300		
DN800B-40	DN800	820	16	1300		

绝缘接头(PN64) INSULATING JOINT

单位(Unit):mm

型号Type	規格 Specification	A	В	L	钢管材质 Steel pipe materia
DN25-64	DN25	34	4	250	
DN25B-64	DIVES	32	4	250	
DN40-64	DN40	48	4	300	
DN50-64	DN50	60	4	350	钢管(Steel Pipe) 20
DN50B-64	DIASO	57	4	350	GB/T8163
DN65-64	DN65	76	5	350	db/10100
DN80-64	DN80	89	5	400	
DN100-64	DN100	114	5	500	
DN100B-64	DN100	108	5	500	
DN125-64	DNI405	140	6	600	
DN125B-64	DN125	133	6	600	
DN150-64	DN150	168	7	600	AN AN (Otto al Dina) d Chan
DN150B-64	DN150	159	7	600	钢管(Steel Pipe) 16Mn GB/T6479
DN200-64	DN200	219	8	600	GB/164/9
DN250-64	DN250	273	10	800	
DN300-64	DN300	325	12	800	
DN350-64	DN350	356	8.8	1000	
DN400-64	DN400	406	10	1000	
DN450-64	DN450	457	11	1000	
DN500-64	DN500	508	12.5	1200	L450*1(X65)
DN600-64	DN600	610	16	1200	GB/T9711
DN700-64	DN700	711	17.5	1300	
DN800-64	DN800	813	20	1300	

注: 钢管需由用户提供 Note: The steel pipe shall be provided by the customer

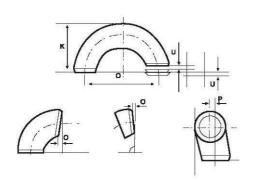
管件公差 TOLERANCE OF FITTINGS

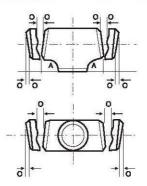


对焊管件尺寸公差 TOLERANCE OF BUTT WELDING FITTINGS

	直径 Diameter	坡扣处外径 O.D.For	端部内径	壁厚 Wall	90°、4		≡: Te		异 径管 Reducer	管帽 Cap	į	80°弯3 Elbow	
DN	NPS	Bevel End	I.D.For End	Thickness	A	В	С	М	Н	E	0	к	不平度
15~65	1/2-2.1/2	+1.6 -0.8	±0.8							±3.2			
80~100	3~4	±1.6			± 1.6	±1.6	±1.6	± 1.6	± 1.6		±6.4		
125~200	5-8	+2.4 -1.6	±1.6									± 6.4	±0.8
250~450	10~18	+4.0 -3.2	±3.2		±2.4	±2.4	±2.4	± 2.4	± 2.4	± 6.4	± 9.6		
500~600	20~24			-12.5%		. 2.2	. 0.0	. 0.0					
650~750	26~30	+6.4	± 4.8	10	±3.2	±3.2	±3.2	± 3.2	± 4.8	±9.6			
800~1200	32~48				± 4.8	± 4.8	±4.8	± 4.8					
1250~1500	50~60	+9.6 -6.4	± 6.4	T	±9.6	± 9.6	±9.6	± 9.6	± 9.6				
15501750	6270	+12.7 - 9 .6	±9.6		±12.7	± 12.7	0	T	P				
1800~2000	72~80	+16 -12	± 12	www.to	±16-	r ±1610	.com	-	-				

对焊管件形位公差 ANGULARITY TOLERANCE OF BUTT WELDING FITTINGS





公称	通径	DN	15~100	125~200	250~300	350~400	450~600	650~700	800~1050	1100~1200	1300~1500
Nominal I	Diameter	NPS	1/2~4	5~8	10~12	14~16	18~24	26~30	32~42	44~48	52~60
倾斜角度差 Angularity	角度偏移 Off Angle	Q	1	2	3	3	4	5	5	5	6.4
tolerance	角度平移 Olf Plain	P	2	4	5	6	10	10	13	19	20

注: 极限公差在不同标准中可能会略有差异。

Limiting tolerances can be slightly difference between the different standards and codes.

管件公差 TOLERANCE OF FITTINGS



承插焊管件尺寸的极限公差 TOLERANCES FOR SOCKET WELDING FITTINGS

	直径 Diameter	2000	i管件 ittings	45°、90°弯头、 三通、四通、斜三通 Elbow、Tee、Cross、Lateral	双承口管箍 Coupling	单承口管籍、异径接头 Half-coupling Reducing Inserts	活接头(承插与螺纹) Union (Socket and Thread)
		承插孔径 Socket Bore	流通孔径 Water Way Bore	中心至承插孔底 Center To Bottom of Socket	结构长度 Laying Lengths	结构长度 Laying Lengths	公称装配长度 Length Assem Nominal
DN	NPS	d1	d2	A, H	E	F	L
6~8	1/8~1/4			±0.8	±1.5	± 0.8	±1.5
10~20	3/8~3/4	+0.3	±0.4	±1.5	±3 .0	±1.5	±1.5
25-50	1-2			£ .0	±4.0	£ .0	± 1.5
65~100	2.1/2~4	+0.4	±0.8	€.5	±5.0	₽.5	±1.5

螺纹管件尺寸的极限公差 TOLERANCES FOR THREADED FITTINGS

		The state of the s	
(直径	45°、90°夸头、三通、四通 Elbow、Tee、Cross	双接口管整、管帽 Coupling、Cap	单接口管箍、半管接头 Half-Coupling、Boss
Diameter	中心至端面 Center to End	端面至端面 End to End	增面至端面 End to End
NPS	Α	JKUU.	E/2
1/8-1/4	e.۳۳ww , tobo	group.som	±0.4
3/8~3/4	±1.5	± 1.5	±0.8
1~2	£ .0	₽.0	£1.0
2.1/2~4	₽.5	₽.5	4.3
	NPS 1/8-1/4 3/8-3/4 1-2	Elbow、Tee、Cross P小至端面	Elbow、Tee、Cross Coupling、Cap

支管台尺寸的极限公差 TOLERANCES FOR O'LETS

支管台尺寸	极限偏差	Tolerances
Outlet Size	DN ≤50 (2")	DN ≱65 (2.1/2")
外径 O.D		₫.6
长度 The length	3	d.6
承口内径 I.D	±0.3	±0.4
内径 I.D	±0.4	±0.8
承口深度 The depth of socket end	3	£0.5
圆弧半径 Radius		Ø.5

注: 极限公差在不同标准中可能会略有差异。

Limiting tolerances can be slightly difference between the different standards and codes.

钢管外径与壁厚表 OUTSIDE DIAMETER AND WALL THICKNEESS



外径和壁厚表(GB/T 12459、GB/T 13401) OUTSIDE DIAMETER AND WALL THICKNESS



公称通径 Nominal Diameter	外 Outs Diam	ide							Nomi	公称暨 nal Wall	厚 T Thickne	88					
DN	A	В	SCH5s	SCH10s	SCH20s	LG	SCH20	SCH30	STD	SCH40	SCH60	xs	SCH80	SCH100	SCH120	SCH140	SCH160
15	21.3	18	1.6	2.1	2.6	_	_	_	_	2.9	_	_	3.6	_	_	_	4.5
20 25	26.9 33.7	25 32	1.6 1.6	2.1 2.8	2.6 3.2	=	=	=	=	2.9 3.2		Ξ	4.0 4.5	=	=	Ξ	5.6 6.3
32	42.4	38	1.6	2.8	3.2	_	_	-	_	3.6	_	_	5.0	_	-	_	6.3
40 50	48.3 60.3	45 57	1.6 1.6	2.8 2.8	3.2 3.6	=	3.2	_	_	3.6 4.0	_	_	5.0 5.6	_	=	_	7.1 8.8
65	76.1(73)	76	2.0	3.0	3.6	_	4.5	_	_	5.0	_	_	7.1	_	_	_	10.0
90 90	88.9 101.6	89 —	2.0	3.0	4.0	E	4.5 4.5	=	E	5.6 5.6	F	E	8.0	F	=	=	11.0 12.5
100	114.3	108	2.0	3.0	4.0	4	5.0	L		5.9	1	4	8.8		11.0	-	14.2
125 150	139.7 168.3	133 159	2.9	3.4	5.0 5.0	_	5.0 5.6			6.3 7.1	=	Ē.	10.0 11.0	Ξ	12.5 14.2		16.0 17.5
200	219.1	219	2.9	4.0	6.3	_	6.3	7.1	1	8.0	10.0	L	12.5	16.0	17.5	20.0	22.2
250 300	273.0 323.9	273 325	3.6 4.0	4.0 4.5	6.3	Y	6.3	8.8	ou	8.8 10.0	12.5 14.2	Ξ	16.0 17.5	17.5 22.2	22.2 25.0	25.0 28.0	28.0 32.0
350	355.6	377	4.0	5.0	_	8.0	8.0	10.0	10.0	11.0	16.0	13.0	20.0	25.8	28.0	32.0	36.0
400 450 500	406.4 457.2 508.0	426 478 529	4.0 4.0 5.0	5.0 5.0 5.6	=	8.0 8.0 8.0	8.0 8.0 10.0	10.0 11.0 12.5	10.0 10.0 10.0	12.5 14.2 16.0	17.5 20.0 20.0	13.0 13.0 13.0	22.2 25.0 28.0	28.0 30.0 32.0	30.0 36.0 40.0	36.0 40.0 45.0	40.0 45.0 50.0
550 600	559 610	— 630	5.0 5.6	5.6 6.3	1000 Texts	8.0	_	_	10.0		_	13.0	30.0 32.0	_	A		_
650 700	660 711	 720	-	- -	=	8.0 8.0	Ξ		10.0 10.0	17.5 — —	_	13.0 13.0 13.0	- -	=	=	Ξ	Ξ
750	762	_	_	_	_	8.0	_	_	10.0	_	_	13.0	-	_	_	_	_
800 850 900	813 864 914	820 — 920			=	8.0 8.0 8.0			10.0 10.0 10.0	=		13.0 13.0 13.0	_				=
950	965	_	_	_	_	8.0	_	_	10.0	_	_	13.0	_	_	_	_	_
1000 1050	1016 1067	1020	_	_	_	8.0	_		10.0	_	_	13.0 13.0	_	_	_	_	_
1100	1118	1120		_	_	8.0	_	_	10.0	_	_	13.0		_	_		_
1150 1200	1168 1220	1220	_	_	_	8.0 8.0	_	_	10.0 10.0	=		13.0 13.0	_	_	_	_	_

SCH5s、10s、20s用于不锈钢管件

SCH5s, 10s, 20s applies for stainless steel fittings.

钢管外径与壁厚表 OUTSIDE DIAMETER AND WALL THICKNEESS



外径和壁厚表(SH3408、SH3409) OUTSIDE DIAMETER AND WALL THICKNESS

公称通径 Nominal Diameter	外径 Outside Diameter							Nom	公称豐 inal Wal	A SECTION OF THE PARTY OF THE P	965	0				
DN	D	SCH5s	SCH10s	SCH20s	SCH40s	SCH80s	SCH20	SCH30	SCH40	SCH60	SCH80	SCH100	SCH120	SCH140	SCH160	xxs
10	17	1.2	1.6	2.0	2.5	3.2	_	_	2.5	-	3.5	_	_	_	_	_
15	22	1.6	2.0	2.5	3.0	4.0	_	-	3.0	.—.	4.0	_	_	_	5.0	7.5
20	27	1.6	2.0	2.5	3.0	4.0	_	-	3.0	-	4.0	_	_	_	5.5	8.0
25	34	1.6	2.8	3.0	3.5	4.5	-		3.5	15	4.5	_	-	_	6.5	9.0
32	42	1.6	2.8	3.0	3.5	5.0	-	_	3.5	_	5.0	_	_	_	6.5	10.0
40	48	1.6	2.8	3.0	4.0	5.0	-	_	4.0		5.0			_	7.0	10.0
50	60	1.6	2.8	3.5	4.0	5.5	3.5	_	4.0	5.0	5.5	_	7.0	_	8.5	11.0
65	76	2.0	3.0	3.5	5.0	7.0	4.5	_	5.0	6.0	7.0	-	8.0	_	9.5	14.0
80	89	2.0	3.0	4.0	5.5	7.5	4.5	_	5.5	6.5	7.5	TO.	9.0	_	11.0	15.0
100	114	2.0	3.0	4.0	6.0	8.5	5.0		6.0	7.0	8.5		11.0	_	14.0	17.0
125	140	2.8	3.5	5.0	6.5	9.5	5.0	-1	6.5	8.0	9.5		13.0	_	16.0	19.0
150	168	2.8	3.5	5.0	7.0	11.0	5.5	6.5	7.0	9.5	11.0		14.0	_	18.0	22.0
200	219	2.8	4.0	6.5	8.0	13.0	6.5	7.0	8.0	10.0	13.0	15.0	18.0	20.0	24.0	23.0
250	273	3.5	4.0	6.5	9.5	15.0	6.5	8.0	9.5	13.0	15.0	18.0	22.0	25.0	28.0	25.0
300	325	4.0	4.5	6.5	9.5	17.0	6.5	8.5	10.0	14.0	17.0	22.0	25.0	28.0	34.0	26.0
350	356	4.0	5.0		_	7	8.0	9,5	11.0	15.0	19.0-	24.0	28.0	32.0	36.0	 .
400	406	4.5	5.0		WW.	tebe	8.0	9.5	13.0	17.0	22.0	26.0	32.0	36.0	40.0	_
450	457	_	_	_	_		8.0	11.0	14.0	19.0	24.0	30.0	35.0	40.0	45.0	_
500	508	_	_	_	_	_	9.5	13.0	15.0	20.0	26.0	32.0	38.0	45.0	50.0	-
550	559	-			_		9.5	13.0	17.0	22.0	28.0	35.0	42.0	48.0	54.0	
600	610		_	_	-	_	9.5	14.0	18.0	25.0	32.0	38.0	45.0	52.0	60.0	
650	660	-	_	_	_	_	-			1.—11			-	_	_	* ():
700	711	<u> </u>	<u> </u>	-	-	-				::	_	3 	-	_	-	<u> </u>
750	762	-	_	_	_	_	-			1111	8		-	_	_	
800	813	1-1	_	_	-	_	-		-	_	-	1	_		-	
850	864	_	_		_	-	-			_		_	_	_	_	_
900	914	-		_	_	_	-	_		: <u>—</u> :		_	_	_	_	-
950	965	-	-	_					_	7		_	_		_	
1000	1016	_	_	_	_	_	-	6		_	.—		_	_	_	-
1050	1067	-	_	_	_	_	_	_	_	n_n		_	_	_	_	
1100	1118	_				_							_	_	_	-
1150	1168	-		_	_	_	-	_	_	_	_	_	_	_	_	_
1200	1220	_	_	_	_	_	_		_		_	_	_	_	_	_

- ·豐厚表后带S者仅适用于奧氏体不锈钢管件。
- · 此表是SH3408标准中无缝管件的公称肇厚; SH3408标准中钢板制管件的壁厚直接用毫米给出。
- · Schedule with the suffix's' only appiles for Austenitic stain-less steel.
- This list applies for the nominal schedule of seamless steel fittings for SH3408 standard; the schedule of wrought steel fittings for SH3408 standard uses the millimeter system.

外径和壁厚表(ASME B36.10M、B36.19M) OUTSIDE DIAMETER AND WALL THICKNESS

TOBO

OUTSIDE DIAMETER AND WALL THICKNEESS

	XXS	Ĩ	I	Ī	7.47	7.82	9.09	9.70	10.15	11.07	14.02	15.24	Ī	17.12	19.05	21.95	22.23	25.40	25.40	1	I	I	Î	I		j.]	1	1	I	I	Î	I		Ĭ.	Ì	1
	SCH160	I	l	I	4.78	5.56	6.35	6.35	7.14	8.74	9.53	11.13	I	13.49	15.88	18.26	23.01	28.58	33.32	35.71	40.49	45.24	50.01	53.98	59.54	1	Í	1	1	I	I	I	I	L	1	I	1
	SCH140 SCH160	Ī	I	I	I	I	ĺ	1	J	I	I	I	I	I	Ī	l	20.62	25.40	28.58	31.75	36.53	39.67	44.45	47.63	52.37		l	1	1	I	I	Ī	I	l	1	Ì	1
	SCH100 SCH120	Ī	I	I	I	I		ï	á	I	1	I	Ī	11.13	12.70	14.27	18.26	21.44	25.40	27.79	30.96	34.93	38.10	41.28	46.02			1	1	I	Ī		I		Ī	Ì	1
	SCH100	I	I	I	I			1		J	I	l	I	I	l	ľ	15.09	18.26	21.44	23.83	26.19	29.36	32.54	34.93	38.89		1	l	1	I	I	I			1	I	1
	SCH80	2.41	3.02	3.20	3.73	3.91	4.55	4.85	5.08	5.54	7.01	7.62	80.8	8.56	9.53	10.97	12.70	15.09	17.48	19.05	21.44	23.83	26.19	28.58	30.96	Ī	Ĩ	1	Ī	I	Ĭ	Ï	Ï	Ĺ	1	I	1
	SX.	2.41	3.02	3.20	3.73	3.91	4.55	4.85	5.08	5.54	7.01	7.62	80.8	8.56	9.53	10.97	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70
T nickness	SCH80s	2.41	3.02	3.20	3.73	3.91	4.55	4.85	5.08	5.54	7.01	7.62	80.8	8.56	9.53	10.97	12.70	12.70	12.70	I	1	1	1	1	1	1	1	-	1	Ī	I	Ī	I		I	Ĩ	1
公称暨厚 T Nominal Wall Thickness	SCH60	Ĩ	1	L	1	1	4	1		4	L	L	4	1	1	L	10.31	12.70	14.27	15.09	16.66	19.05	20.62	22.23	24.61	H	J.	1	Ĩ	Ī	Ī	Î	Ī	Ĺ	I	Ĩ	1
Nomin	SCH40	1.73	2.24	2.31	2.77	2.87	3.38	3.56	3.68	3.91	5.16	5.49	5.74	6.02	6.55	7.11	8.18	9:27	10.31	11.13	12.70	14.27	15.09		17.48		P		17.48	17.48	19.05	I	Ī		I	1	1
	STD	1.73	2.24	2.31	2.77	2.87	3.38	3.56	3.68	3.91	5,16	5.49	5.74	6.02	6.55	T.	8.18	9.27	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53
	SCH40s	1.73	2.24	2.31	2.77	2.87	3.38	3.56	3.68	3.91	5.16	5.49	5.74	6.02	6.55	7.11	8.18	9.27	9.53	1	I	I	ľ	I		I	J	l	1	I	1		I		1	I	1
	SCH30	1	1	Ī	I		ľ	1]	1	I	Ī	I	ľ	Ĺ	7.04	7.80	8.38	9.53	9.53	11.13	12.70	12.70	14.27		15.88	15.88	15.88	15.88	15.88) in the second		36	I	I	1
	SCH20	Ţ	I	I	1	100 miles	Į.		90 83	1	1	I	I	1		Ĺ	6.35	6.35	6.35	7.92	7.92	7.92	9.53	9.53	9.53	12.70	12.70	12.70	12.70	12.70	12.70	I				1	1
	SCH10	I	I	I	I	I	ſ	1	1	1	Į	I	I	I	Ţ	ĺ	1		1	6.35	6.35	6.35	6.35	6.35	6.35	7.92	7.92	7.92	7.92	7.92	7.92	I		l	İ	1	1
	SCH10s	1.24	1.65	1.65	2.11	2.11	2.77	2.77	2.77	2.77	3.05	3.05	3.05	3.05	3.40	3.40	3.76	4.19	4.57	4.78	4.78	4.78	5.54	5.54	6.35	1	1	7.92	1	I	1	I			1	1	1
	SCH5s	1	I	I	1.65	1.65	1.65	1.65	1.65	1.85	2.11	2.1	2.11	2.11	2.77	2.77	2.77	3.40	3.96	3.96	4.19	4.19	4.78	4.78	5.54	1	1	6.35	1	I	I	1	I	I	1	1	1
外径 Outside Diameter	Q	10.3	13.7	17.1	21.3	26.7	33.4	42.2	48.3	60.3	73.0	88.9	101.6	114.3	141.3	168.3	219.1	273.1	323.9	355.6	406.4	457.2	508	559	610	099	F	762	813	864	914	965	1016	1067	1118	1168	1219
画径 inal Size	NPS	1/8	1/4	3/8	1/2	3/4	F	1.1/4	1.1/2	Q	2.1/2	ø	3.1/2	4	Ŋ	9	80	10	12	14	16	18	50	22	24	56	28	30	35	34	36	38	40	42	44	46	48
公祿通径 Nominal Pipe Size	DN	9	œ	10	15	8	22	32	40	29	88	8	8	100	125	150	200	250	300	350	400	450	200		009		200	1	800	I	006	I	1000	I	1100	I	1200

钢管外径与壁厚表

SCH5s、10s、40s、80s用于不锈钢笛件。 SCH5s、10s、40s、80s applies for stainless steel fittings.

外径和壁厚表(JIS B2311、B2312、B2313) OUTSIDE DIAMETER AND WALL THICKNESS

钢管外径与壁厚表 OUTSIDE DIAMETER AND WALL THICKNEESS



	XXS	7.5	7.8	9.1	2.6	10.2	1.1	14.0	15.2	8	17.1	19.0	21.9	22.2	25.4	25.4			I	I	I		Ĭ	Ĭ	Ī	Î	Ĭ	Ī	I	Î	Ī	İ	Ī	Ī	
	SCH160	8.4	5.6	6.4	6.4	7.1	8.7	9.5	11.1	I	13.5	15.9	18.2	23.0	28.6	33.3	35.7	40.5	45.2	50.0	54.0	59.5	I	Ì	Ĩ	Í	I	I	Ī	ĺ	Ī	Ī	I	Ţ	
	SCH140	1	I	I	I	100	Ĩ	1		l	Ĩ	Î		20.6	25.4	28.6	31.8	36.5	39.7	44.4	47.6	52.4	I	l	I	Ĺ	I	J	I	ļ	I	Ì		I	
	SCH120 8	1	ļ	1	J		I	1	I	l	11.1	12.7	14.3	18.2	21.4	25.4	27.8	30.9	34.9	38.1	41.3	46.0	I	I	I	I	ļ	I	I	l	I	1	I,	I	
	SCH100 8	I	ĺ	Ī	ĵ	Ü	I	I]	ĺ	Ĺ	Ī	j	15.1	18.3	21.4	23.8	26.2	29.4	32.5	34.9	98.9	Ĭ	ĺ	I	Ĭ	I	Ī	I	I	Ī	Ī	I	Ī	
	SCH80 S	3.7	3.9	4.5	4.9	5.1	5.5	7.0	7.6	1.8	9.8	9.5	11.0	12.7	15.1	17.4	19.0	21.4	23.8	26.2	28.6	31.0	34.0	Î	I		Ĭ	I	I	Ĺ	I	Ī	I		
	SX SX	3.7	3.9	4.5	4.9	5.1	5.5	7.0	2.6	9.1	9.6	9.5	11.0	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	
	SCH80e	3.7	3.9	4.5	4.9	5.1	5.5	7.0	7.6	1.8	8.6	9.5	11.0	12.7	12.7	12.7	Ī		1	1	L	_	-	1	1	-	<u> </u>	1	1	1	<u> </u>	1	1	-	
公称暨厚 T Nominal Wall Thickness	SCH60 S	1		1	1	I		1	I	1	1	1	1	10.3	12.7	14.3	15.1	18.7	19.0	20.6	22.2	24.6	1		1	1	Ī	Ţ	Î	Ī	Ī	j		Ī	
公称壁厚 al Wall TI	SCH40 S	2.8	9	3.4	3.6	3.7	9.0	5.2	5.5	5.7	6.0	9.9	7.1	8.2	9.3	6.0	11,1	2.7	4.3	15.1	5.9	17.5		17.5	17.5	17.5	17.5	19.1	Ī	26.2	I	Ĭ	Ĭ	I	
Nomin	STD	2.8	5.9	3.4	3.6	3.7	3.9	5.2	5.5	5.7	0.9	6.6	7.1	8.2	9.3	8.5	9.6	9.5	9.6	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	
	SCH40s	2.8	5.9	3.4	3.6	3.7	3.9			5.7	6.0	6.6	7.4	8.2	eg eg	15.	9.5	9.6	-	9.5	9.5	9.6	I	Ī	9.5	1	Ī	I	1	I	I	Ī	I	I	fittings.
	SCH30 SC	1	<u> </u>	1	1	ĺ	I	I	1	ſ	ľ	1	1	0.7	7.8	8.4	9.5	9.5	11.1	12.7	12.7	14.3	I	15.9	15.9	15.9	15.9	15.9	1	ĺ	1	1	1	-	ess steel
	SCH20 S(2.5	2.5	3.0	3.0	3.0	3.5	3.5	4.0	4.0	4.0	5.0	5.0	6.5	6.5	6.5	8.0	8.0	8.0	9.5	9.5	9.5	12.7	12.7	12.7	12.7	12.7	12.7	I	14.3	I	1		-	for stalnic
	SCH10 SC	1	Ī	1	1	1		1	1	1		1	1		<u> </u>	Ī	6.4	6.4	6.4	6.4	6.4	6.4	7.9	7.9	7.9	7.9	7.9	7.9	I		I	Ī	Ĭ	Ĭ	20s applies for stainless steel fittings.
	SCH10s SC	2.1		2.8	2.8	2.8	2.8	3.0	3.0	3.0	3.0	3.4	3.4	4.0	4.0	4.5	5.0	5.0	5.0 6	5.5	5.5	6.5	8.0 7	8.0 7	8.0 7	8.0 7	8.0 7	8.0 7	1	9.5		1		- 	0s, 20s
		9.=	10000	0	2	N	Ø	0	e	e	က	n	e	4	4	4	ro	ιO	70	ιO	Ŋ	9	00	0	80	Φ	00	00	(4)	O		i.	31.5	Ŀ	SCH5s, 10s,
	SCH56	1.65	1.65	1.65	1.65	1.65	1.65	2.7	2.1	2.1	2.1	2.8	2.8	2.8	3.4	4.0	4.0	4.5	4.5	5.0	5.0	5.5	5.5	5.5	6.5	Ĺ	I	I	I	Ĺ	I	Ī	I	Ĺ	
	SGP	2.8	2.8	3.2	3.5	3.5	3.8	4.2	4.2	4.2	4.5	4.5	5.0	5.8	8.8	6.9	7.9	7.9	7.9	7.9	l	l	I	I	1	I	I	I	I	ĺ	I	I	I	I	做管件
外径 Outside Diameter	D	21.7	27.2	34.0	42.7	48.6	60.5	76.3	89.1	101.6	114.3	139.8	165.2	216.3	267.4	318.5	355.6	406.4	457.2	508.0	558.8	9.609	660.4	711.2	762.0	812.8	863.6	914.4	965.2	1016.0	1066.8	1117.6	1168.4	1219.2	SCH5s、10s、20s用于不锈钢管件。
	NPS	1/2	3/4	-	1.1/4	1.1/2	S	2.1/2	60	3.1/2	4	n	9	80	9	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	10s, 20
公称通径 Nominal Diameter	S	5	20	25	32	40	50	65	80	06	100	125	150	200	250	300	350	400	450	200	929	900	650	200	750	800	850	006	950	1000	1050	1100	1150	1200	SCH5s,

外径和壁厚表(SY/T 0510 A类) OUTSIDE DIAMETER AND WALL THICKNESS

钢管外径与壁厚表 OUTSIDE DIAMETER AND WALL THICKNEESS



	2	=	5.0	5.5	6.5	6.5	7.0	8.5	9.5	11.0	ľ	14.0	16.0	18.0	24.0	28.0	34.0	36.0	40.0	45.0	50.0	54.0	0.09
	SCH160		Linux Linux	11,285	Accessed 1	1938	584		33000		-										_		
-			4.78	5.56	6.35	6.35	7.14	8.74	9.52	#	ļ.	13.49	15.88	18.26	23.01	28.52	33.32	35.71	40.49	45.24	50.01	53.98	59.54
	SCH140	=	Į.	1	1	ļ	ľ	1	1	ļ	l	1	l	ļ	20.0	25.0	28.0	32.0	36.0	40.0	45.0	48.0	52.0
	SC	_	1	1	1	I	ţ	I	1	I		1		I	20.62	25.40	28.58	31.75	38.52	39.47	44.45	47.62	52.37
	SCH120	=	I	I	1	I		7.0	8.0	9.0		11.0	13.0	14.0	18.0	22.0	25.0	28.0	32.0	35.0	38.0	42.0	45.0
	SC	_	Ĩ	I	Ī	Î	Î	Ĩ	I		Ī	11.1	12.7	14.3	18.3	21.4	25.4	27.8	32.0	35.0	38.1	41.28	46.02
	SCH100	=	I	1	1	I		I	1	I	I	1	I	I	15.0	18.0	22.0	24.0	26.0	30.0	32.0	35.0	38.0
	SCH	_	I	1	Ι	I	Ĭ	I	1	I	ľ	1	1	I	15.09		21.44	23.88	26.19	29.36	32.54	34.92	38.89
	SO	=	4.0	4.0	4.5	5.0	5.0	5.5	7.0	7.5	1	8.5	9.5	11.0	13.0	15.0 18.26	17.0 2						
	SCH80s		3.73	3.91	4.55	4.85	5.08	5.54	7.01	7.62	8.08	9.56	9.53	10.97	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
	Q	=	4.0	4.0	4.5	5.0	5.0	ro.	7.0 7	7.5		8.5	9.5	11.0 1	13.0	15.0	17.0	18.0	22.0 1	24.0	26.0 1	28.0 1	32.0
10	SCH80		3.71	3.91	4.55	4.85	5.08	5.54	7.01	7.62	8.08	8.56	9.53	11.0	12.7	15.1	17.5 1	19.1	21.4	23.8	26.2	28.58	30.96
整厚等级 T Wall Thickness	<u>n</u>	=	2.80	3.00	40	3.60 4	3.70 5	0.4	5.2 7	ru.	14	6.0 8	LO	0	8.2	9.3	0.0	11.0	13.0 2	14.0	15.0 2		_ <u>ਲ</u>
'all Thi	SCH40s		2.77 2.	2.87 3	3.38 3	3.68 3	3.68	3.91	5.16	5.49 5.	5.74	6.02	6.05	7 11.7	9.10	9.27	25	0	12.5	14.2	16.0 1	· I	<u> </u>
W ⊢ 386	846	=	2.80 2.	3.0 2.	3.50 3.	3.50 3.	3.50 3.	4.0 3.	5	rů ľ	5.7	6.0 6.	6.5	7/2	89	0	0	F	13 13	4	15 10		17.5
**	SCH40		-740						ob.	O C				om.		7 9	2					- A	
	v)	_	2.77	2.87	3.38	3.56	3.68	3.91	5.16	5.49	5.74	6.02	6.05	7.11	8.18	9.27	9.52	11.0	12.7	14.3	15.1		7 17.5
	SCH30	=	l	ļ	1		ļ	I	l	ļ	Ĺ	1	ļ	l	7.0	8.0	8.5	9.5	9.2	11.0	13.0	13.0	14.27 14.27
	Ö	=	İ	1	1	ţ	ţ	ľ	ı	ĺ	ľ	1	Ì	I	7.04	7.8	8.38	9.52	9.52	F	12.7	12.7	
	SCH20	=	Į.	į	I	100	53.	376	ļ	Į a		J	į	ļ	6.30	6.30	6.30	8.0	8.0	8.0	10.0	10.0	10.0
	သွ	_	Ĭ	Ì	Ĭ	Ĩ	Î	Ï	Ì	Ĭ	Î	Î	Ĩ	Ĭ	6.35	6.35	6.35	7.92	7.92	7.92	9.52	9.52	9.52
	80	=	2.1	2.11	2.80	2.80	2.80	2.80	3.05	3.05	3.05	3.05	3.40	3.40	3.40	3.76	4.57	I	Ī	I	Ī		Ī
	SCH10s	_	2.11	2.11	2.77	2.77	2.77	2.77	3.05	3.05	3.05	3.05	3.40	3.40	3.40	3.76	4.57	4.78	4.78	4.78	5.54	5.54	6.35
	52	=	1.65	1.65	1.65	1.65	1.65	1.65	2.11	2.11	2.11	2.11	2.77	2.77	2.77	3.40	3.96	1	1	I	I	1	I
	SCH5s	-	1.65	1.65	1.65	1.65	1.65	1.65	2.11	2.11	2.11	2.11	2.77	2.77	2.77	3.40	3.96	3.96	4.19	4.19	4.70	4.78	5.54
de		=	22	27	34	42	48	9	92	68	102	411	140	168	219	273	324	351	402	450	200	559	610
外径 Outside Diameter	Δ	_	21.3	26.9	33.7	42.4	48.3	60.3	76.1	88.9	110.6	114.3	139.7	168.3	219.1	273.0	323.9	355.6	406.4	457.0	508.0	559	610
公泰通径 Nominal	Diameter	NO	15	50	25	(35)	40	20	(65)	9 08	90 1	100	(125) 1	150 1	200 2	250 2	300	350 3	400 4	450 4	500 5	550	009
令 No No	Diar			W	· · ·	છ	A.	47	9)	40	3 3	-	3	-	Q	N	Ö	Ö	4	4	Ŋ	ιń	9

警标导数字后带S者仅适用于奥氏体不锈管件。 Schedule with the suffix "s" only applies for Austenitic stainless steel fittings.

钢管外径与壁厚表 OUTSIDE DIAMETER AND WALL THICKNEESS



外径和壁厚表(SY/T 0510 B类) OUTSIDE DIAMETER AND WALL THICKNESS

公称通径 Nominal Diameter	外径 Outside Diameter				公称登厚 T ninal Wall Thickn MPa Nominal P			
DN	D	1.0	1.6	2.5	4.0	6.4	10.0	16.0
15	18	3	3	3	3	3	_	_
20	25	3	3	3	3	3		3-1
25	32	3.5	3.5	3.5	3.5	3.5	4.5	6.5
32	38	3.5	3.5	3.5	3.5	3.5	4.5	7
40	45	3.5	3.5	3.5	3.5	3.5	4.5	7
50	57	3.5	3.5	3.5	3.5	3.5	5	7
65	76			-	4	4.5	6	8
80	89	4	4	140	OI	5	7	9
100	108	4	w tobo	eroup	com	6	8	10
125	133	4	4	4	4	7	10	12
150	159	4.5	4.5	4.5	4.5	8	12	14
200	219	6	6	6	7	10	14	18
250	273	8	8	8	8	11	16	24
300	325	8	8	8	9	12	18	28
350	377	9	9	9	9	15	22	30
400	426	9	9	9	11	16	24	34
450	478	9	9	10	12	18	26	38
500	529	9	9	11	14	20	28	40
600	630	9	9	12	15	22	_	_

本表所列壁厚均按许用应力[σ]=131MPa、介质的腐蚀裕度取1.5mm算出。

The schedule indicated in above list is worked out under the condition of allowable stress [σ] equal to 131 MPa and the corrosion allowance equal to 1.5mm.

各国常用材料对照表 THE STANDARD CONTRAST TABLE FOR MATERIAL



各国对焊管件、板、管材料标准对照表

The Standard Contrast Table For Butt-welding Fitting, Steel plant And Pipe material

	20070	EASTM/ASME merican Stand	111111111111111111111111111111111111111	德国[German or E	DIN或欧盟EN uropean Unio			B/HG标准 Standard		日本JIS标准 anese Standa	rd
材料 Material	对焊管件 Butt-welding fitting	板 Steel plate	管 Steel plpe	对 焊管件 Butt-welding fitting	板 Steel plate	告 Steel pipe	板 Steel plate	普 Steel pipe	对焊管件 Butt-welding fitting	板 Steel plate	管 Steel pipe
低碳钢 Mild steel	A234WPB	A283GrC A285GrC A516-60	A53GrB A106GrB	St 37.0 St 35.8I St 35.8III	RSt37-2 H II H II	St 37.0 St 35.8I St 35.8III	Q235A Q235B 20R 20g	20 20G	PG370 PT410	SS400 SM400B SB410	STPG370 STPT410
1Cr-1/2Mo	A234WP12	A387Gr12	A335P12	13CrMo44 1.7335	DIN 17155 13CrMo44	DIN 17175 13CrMo44	GB6654 15CrMoR	GB5310 15CrMo	PA22	SCMV2	STPA22
11/4Cr-1/2Mo-6I	A234WP11	A387Gr11	A335P11	8 <u>—</u> 8	_		GB150 14Cr1MoR	_	PA23	SCMV3	STPA23
21/4Cr-1 Mo	A234WP22	A387Gr22	A335P22	10CrlMo910 1.7380	DIN17155 10CrMo910	DIN17175 10CrMo910	_	GB5310 12Cr2MoG	PA24	SCMV4	STPA24
5Cr-1/2Mo	A234WP5	A387Gr5	A335P5	4/-		- /	- 1	GB6497 1Cr5Mo	PA25	SCMV6	STPA25
-46°C C-Mn钢	A420WPL6	A516Gr60 A516Gr70	A333Gr6	TSTE285 (1.0488) TSTE365 (1.0586)	DIN17102 TSTE285 TSTE355	DIN17179 TSTE285 TSTE355	GB3531 16MnDR (-40°C)	GB150 09MnD	PL380	SLA325A	STPL380
-101°C 3.5Ni钢	A420WPL3	A203GrD	A333Gr3	10Ni14 (1.5637)	DIN17280 10Ni14	DIN17173 10Ni14		ni l	PL450	SL3N255	STPL450
18-8不锈钢 Stainless steel 18-8L超低碳	A403WP304 A403WP304L	A240-304 A240-304L	A312TP304 A312TP304L	X5CrNi1810 (1.4301) X2CrNi1911 (1.4306)	DIN17440 1.4301 1.4306	DIN17458 (无疑Seamless) DIN17457 (泽管Weld) 1.4301 1.4306	GB4237 304 304L	GB14976 (无键Seamless) HG20537 (评質Weld) 304 304L	SUS304 SUS304L	JISG4304 SUS304 SUS304L	JISG3459 SUS304TP SUS304LTI
18-12Mo不锈钢 Stainless steel 18-12MoL超低碳	A403WP316 A430WP316L	A240-316 A240-316L	A312TP316 A312TP316L	X5CrNIMo 17122(1.4401) X2CrNIMo 17132(1.4404) X6CrNIMoTI 1.4571	DIN17440 1.4401 1.4404 1.4571	DIN17458 (无續Seamless) DIN17457 (煇管Weld) 1.4401 1.4404 1.4571	GB4237 316 316L 316Π	GB14976 (无键Seamless) HG20537 (焊管Weld) 316 316L 316TI	SUS316 SUS316L	SUS316 SUS316L	SUS316TF SUS316LTI
双相钢 Duplex Stainless steel	A815 S31803 (2205)	A240 S31803 (2205)	A790 S31803 (2205)		VdTūv418 X2CrNiMoN 225(1.4462)	,	_	-	SUS329 J1	SUS329 J1	SUS329 J1TP
904L	(B366) (N08904)	B625 N08904	B677(S) B673(W) N08904		VdT0v421 X2NICrMoCu 25.205(1.4539		_	_		SUS317 J5L	_
Monel 400	B366 N04400	B127 N04400	B165 N04400	同右	DIN17750 NiCu30Fe (2.4360)	DIN17751 NiCu30Fe (2.4360)	JB4741 NCu30	JB4742 NCu30		JISH4551 NCuP	JISH4552 NCuT
Incolloy800HT 800	B366 N08811 N08800	B409 N08811 N08800	B407 N08811 N08800	同右	EN10028-7 1.4959 1.4876	DIN17459 1.4959 1.4876	_	-	-	_	-
Inconel1825	B366 N08825	B424 N08825	B423 N08825	同右	DIN17750 2.4858	DIN17751 2.4858	_	_	-	-	_
C-276	B366 N10276	B575 N10276	B622 N10276	间右	DIN17750 2.4819	DIN17751 2.4819	_	_	-	_	-

各国常用材料对照表 THE STANDARD CONTRAST TABLE FOR MATERIAL



各国锻制管件、法兰、棒材料标准对照表

The Standard Contrast Table For Forged Fitting, Flange And Bar material

	美国ASTM/AS American St			I或欧盟EN标准 n or European	中国GB/ Chinese		日本JIS标 Japanese Sta	
材料 Material	報制管件、法兰 Forging fitting flange	棒 Bar	鍛件 Forging	## Bar	镀件 Forging	棒 Bar	級件 Forging	# Bar
低碳钢 Mild steel	A105 (A181)	A675-70 A36	(RSt37-2)	S235JRG2) (1.0038) 43/C22.8	JB4726 20/16Mn	GB699/20 GB1591/Q345B	JISG3202 SFVC2A JISG4051 S25C	JIS G3101 SS400 JIS G3103 SM400B
1Cr-1/2Mo	A182F12	A739B12		13CrMo44 335)	JB4726 15CrMo		JIS G3203 SFVA F12	9
11/4Cr-1/2Mo-Si	A182F11	A739B11	-	-	JB4726 14Cr1Mo	_	SFVA F11A	_
21/4Cr-1 Mo	A182F22	A739B22	DIN17243 (1.7	10CrMo910 380)	JB4726 12Cr2Mo1	7	SFVA F22B	-
5Cr-1/2Mo	A182F5		DIN2528 1 (1.7	12GrMo195 362)	1	I - 10	SFVA F5B	_
-46℃ C-Mn钢	A350LF2	1	DIN17103 TSTE355 (1.0566)	DIN17102 TSTE355 (1,0566)	JB4727 16MnD)	JIS G3205 SFL2	
-101℃ 3.5NI钢	A350LF3	_	DIN1 10NI14(7280 (1.5637)	O	UP	JIS G3205 SFL3	_
18-8不锈钢 Stainless steel 18-8L超低碳	A182F304 A182F304L	A479-304 A479-304L	1.4	7440 301 304	JB4728 304 304L	GB1220 304 304L	JIS G3214 F304 F304L	JIS G4303 SUS304 SUS304L
18–12Mo不锈钢 Stainless steel 8–12MoL超低碳	A182F316 A182F316L	A479-316 A479-316L	1.4 1.4	7440 401 571 6Ti	316 316L 316Ti	GB1220 316 316L 316Ti	JIS G3214 F316 F316L	JIS G4303 SUS316 SUS316L
18-8Ti	A182F321	A479-321		17440 541	JB4728 0Cr18Ni10Ti	GB1220 0Cr18Ni10Ti	JIS G3214 F321	JIS G4303 SUS321
双相钢 Duplex Stainless steel	A182F51	_	X2CrNil	∆418 MoN225 462)	_	(<u>—</u>	0-0	SUS329J1
904L	B N08904	B649 N08904		0:421 oCu25205 39)	_	_	17	SUS317J5I
Monel 400	B564 N04400	B164 N04400		NICu30Fe 360)	JB472/NCu30	-	·—	ş <u>—</u>
Incolloy800HT 800	B564 N08811 N08800	B408 N08811 N08800	DIN17460 1.4959 1.4876	_	_	-	()	-
Inconel1825	(B564) N08825	B425 N08825	DIN17754 2.4858	DIN17752 2.4858	_	_	_	_
C-276	B564 N10276	B574 N10276		7754 819	_	_	N	_

服务领域 SERVICE AREAS





▶石油化工、石油天然气、海上油田、陆上油田、电力、纺织化纤、造船、食品、医药、造纸、化肥、建筑、城市煤气、环保、污水处理等

▶ Petrochemical Industry、Gas Oll、Oll Field in Ocean、Oll Field Inland、Electricity、Textile & Chemical Fiber、Food& Medicine、Paper And Fertilizer、Building、City Natural Gas、Environmental Protection、Waste Water Freatment.



TOBO International Trading (Shanghai) Co.,Ltd TOBO Pipeline Equipment (Shanghai) Co., Ltd

No.208,Lvdi Road,Baihe Twon,Qingpu District,Shanghai,China

TEL:0086-21-31261985 FAX:0086-21-39510185

E-MAIL: info@tobo-group.com

WEB:www.tobo-group.com