



山西索立得工贸有限公司

Shanxi Solid Industrial Co.,Ltd.

SOLID PRODUCTS



Product Application 应用领域



石油化工
Petroleum Refineries



天然气
Natural gas



电力
Electric power



制药
Pharmacy



造船业
Ship-building



核工业
Nuclear industry

Manufacture Equipments 生产设备



2000T开式压力机
2000T open press



热锻车间一角
Forging workshop



锯床
Sawing machine



金工车间
Machining workshop



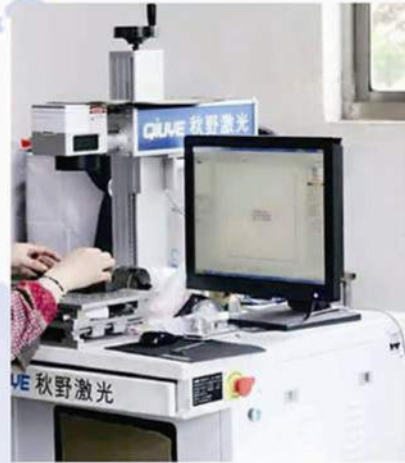
数控车床
CNC lathe



普数车床
Engine lathe



钻孔机
Drilling machine



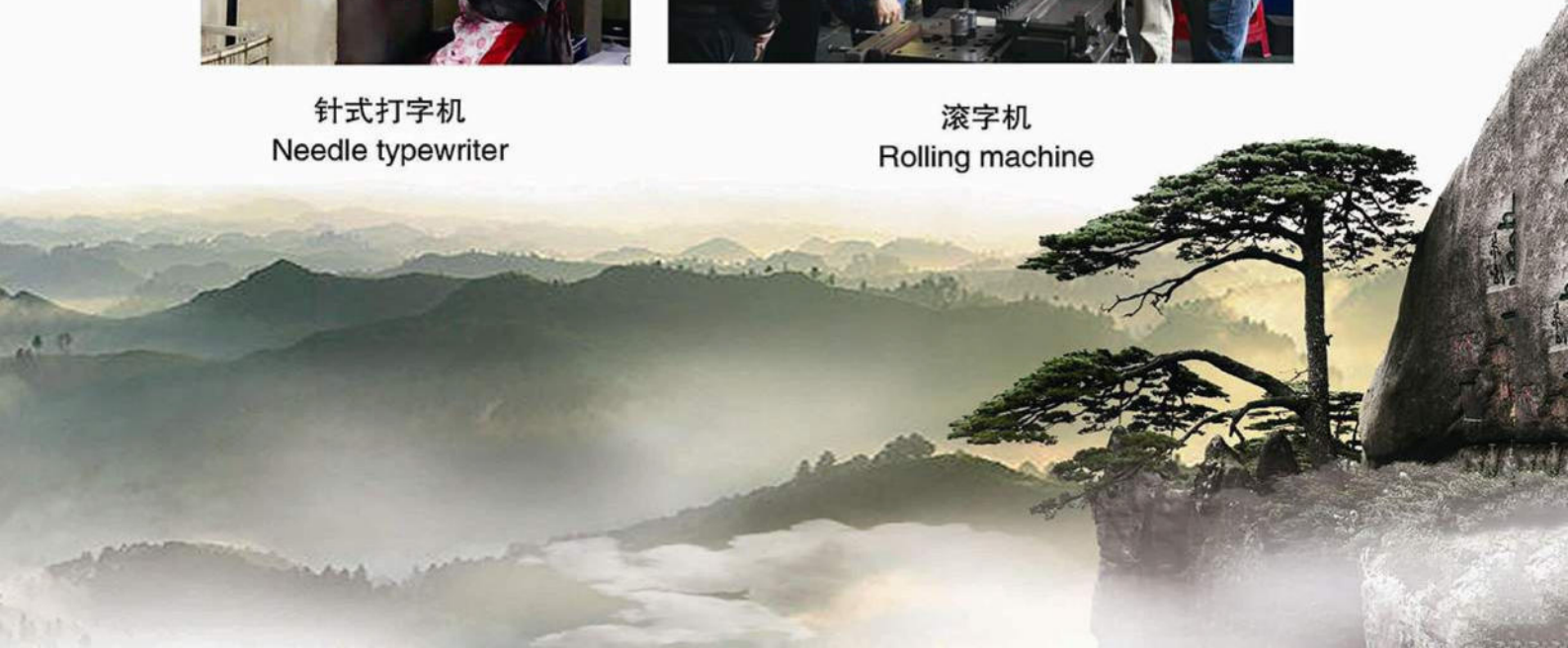
激光打字机
Laser typewriter



针式打字机
Needle typewriter



滚字机
Rolling machine



↑ Detection Device 检测设备



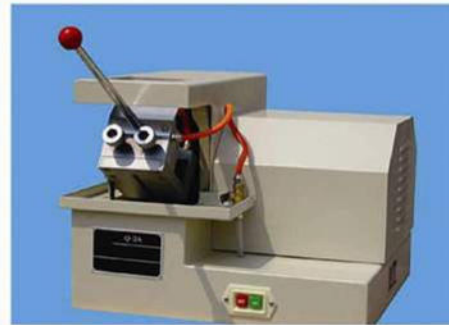
冲击拉床
Impact testing machine



光谱化学分析仪
Spectrum analyzer



光谱检测仪
Spectral detector



切割机
Cut-off machine



着色探伤 Crack Detection by Color



Product categorization 产品系列



螺纹管件
Threaded pipe fittings



承插焊管件
Socket welding pipe fittings



丝堵系列
Plugs



渐缩管系列
Swaged Nipple



管座系列
Olets

Product categorization 产品系列



外螺纹系列
Male threaded fittings



法兰系列
Flanges



特殊支管台
Special olets



对焊管件
Welding pipe fittings



45° 斜三通 Lateral



翻边短节 Lap joint stub Ends

Raw materials warehouse 原材料库



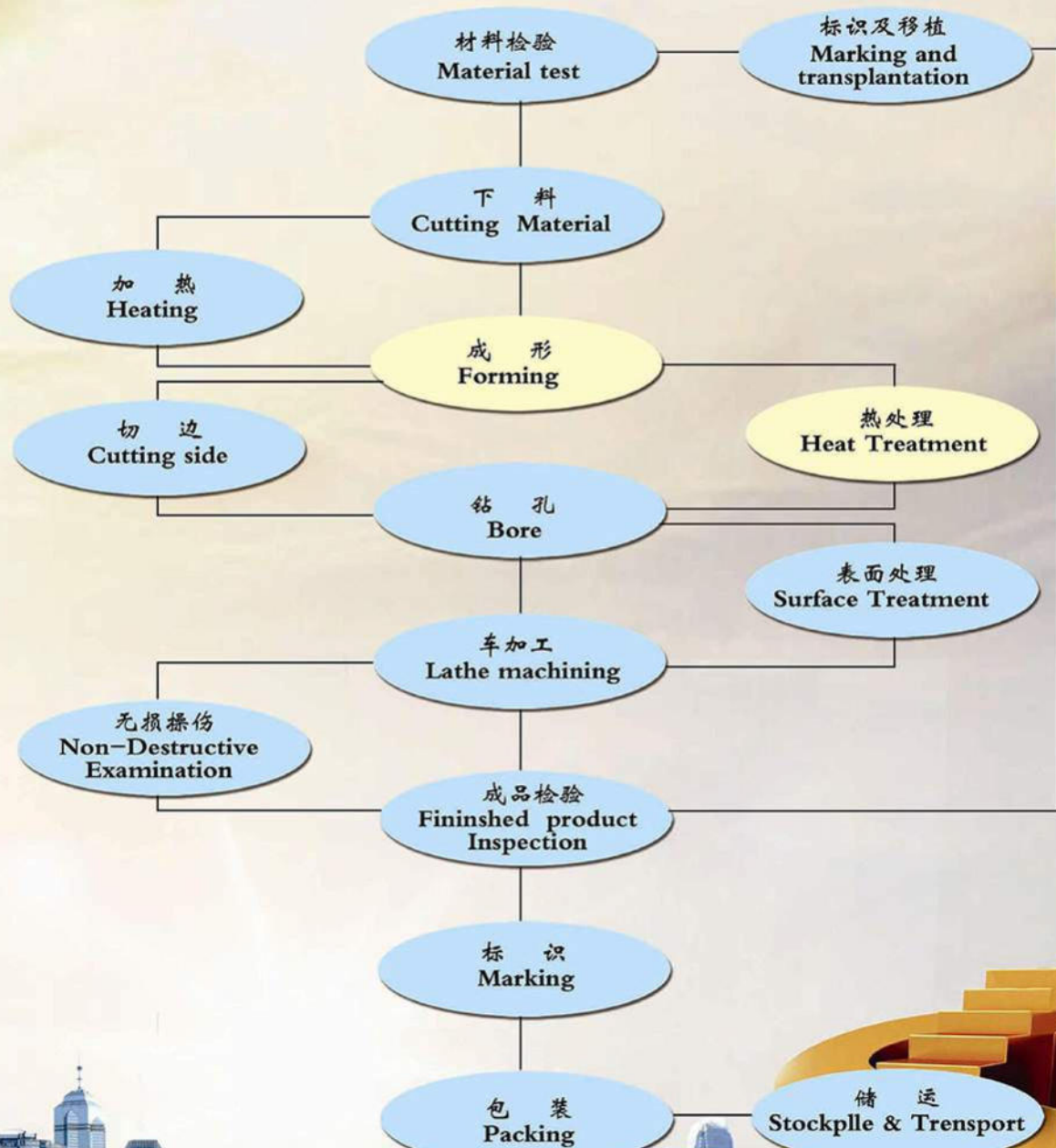
原材料仓库
Raw material warehouse



成品库一角
Storage



Process flow diagram 产品制造工艺流程图





Standardization of product manufacturing

制造标准

序号 NO.	标准代号 Standard code	标准名称 Description
1	GB/T14383	锻钢制承插焊管件 Forged steel socket welding fittings
2	GB/T19326	钢制承插焊螺纹和对焊支管座 Forged steel socket welding / threaded fittings and socket welding olets
3	GB/T12459	钢制对焊无缝管件 Seamless steel butt welding fittings
4	GB/T14626	锻钢制螺纹管件 Forged steel threaded pipe fittings
5	SH3408	钢制对焊无缝管件 Seamless steel butt welding fittings
6	SH3410	锻钢制承插焊管件 Forged steel socket welding fittings
7	HG/T21634	锻钢制承插焊管件 Forged steel socket welding fittings
8	HG/T21635	碳钢、低合金钢无缝对焊管件 Carbon steel, low alloy steel seamless welded fittings
9	GD87-1101	火力发电厂汽水管道零件入部件典型设计手册 Typical design manual of the steam and water piping composition and parts for thermal power factory
10	DIN2616	钢制对焊管件、异径管 Steel butt-welded fittings, reducer
11	BS 3799	锻制钢管件 Steel pipe fittings

序号 NO.	标准代号 Standard code	标准名称 Description
12	ANSI B16.9	工厂制造的锻钢对焊管件 Factory-made wrought steel butt welding fittings
13	ANSI B16.28	锻钢对焊短半径弯头 Wrought steel butt welding short radius elbow
14	ANSI B16.11	承插焊和螺纹锻钢管件 Socket welding and threaded forged steel fittings
15	ANSI B16.5	管法兰和法兰配件 Pipe flanges and flange fittings
16	MSS SP-79	承插焊异径插入件 Socket-welding reducing inserts
17	MSS SP-97	承插焊螺纹和对焊支管座 socket welding and threaded socket welding branch
18	MSS SP-95	渐缩管 Swaged nipple
19	MSS SP-83	承插焊和螺纹活接头 Carbon steel threaded and Socket-welding unions
20	JIS B2316	钢制承插焊管件 steel socket-welding fittings
21	MSS SP-43	锻制和制造对焊管件 Wrought and Fabricated Butt-Welding Fittings

本厂承插件符合 GB/T14383/ANSI B16.11/SH3410/HG/T21634 标准。材料有碳钢、合金钢、不锈钢,供客户选用。

承插焊管件压力等级与管子壁厚管表号

压力等级	管子壁厚表号	
3000LB	SCH80	XS
6000LB	SCH160	-
9000LB	-	XXS

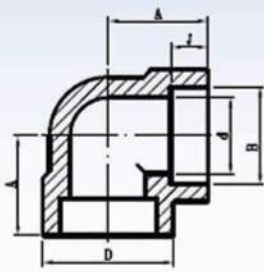
小口径管壁厚

DN	NPS	管子壁厚表号		
mm	in	SCH80	SCH160	XXS
6	1/8	2.41	3.15	4.83
8	1/4	3.02	3.6	6.05
10	3/8	3.2	4.01	6.4

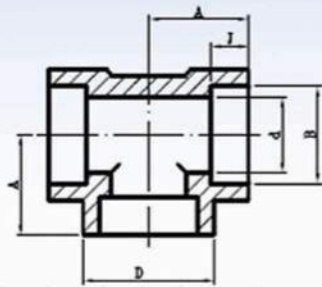
承插口尺寸表 Socket welding end dimension

公称通径 Nominal pipe size		ASME B16.11-2009/GB/T14383-2008 SH/T3410-2012				GB/T 14383-93			HG/T21634-1988						承口深 Depth of Socket
						(B系列)			(A系列)			(B系列)			J
		承插口 Socket Bore B	流量孔Water Way d			承插口 Socket Bore B	流量孔Water Way d		承插口 Socket Bore B	流量孔Water Way d		承插口 Socket Bore B	流量孔Water Way d		
DN(mm)	NPS(in)		3000LB	6000LB	9000LB		SCH80	SCH160		3000LB	6000LB		3000LB	6000LB	
6	1/8	10.8 ^{+0.4}	7.0	4.0		10.4 ^{+0.3}	5	4							10 ^{+0.4}
8	1/4	14.2 ^{+0.4}	9.0	6.5		12.4 ^{+0.3}	6	5							10 ^{+0.4}
10	3/8	17.6 ^{+0.4}	12.5	9.0		14.4 ^{+0.3}	8	6							10 ^{+0.4}
15	1/2	21.8 ^{+0.4}	15.5	12.0	6.5	18.5 ^{+0.3}	10.8	9.0	21.70 ^{+0.25}	15.8	11.8	18.6±0.1	12	9	10 ^{+0.4}
20	3/4	27.2 ^{+0.4}	21.0	15.5	11.0	25.5 ^{+0.3}	17.0	13.8	27.05 ^{+0.25}	21.0	15.5	25.6±0.1	19	14	13 ^{+0.4}
25	1	33.9 ^{+0.4}	26.5	21.0	15.2	32.5 ^{+0.3}	23.0	19.4	33.80 ^{+0.25}	26.5	20.5	32.8±0.1	25	20	13 ^{+0.4}
32	1 1/4	42.7 ^{+0.4}	35.0	29.5	22.8	38.5 ^{+0.3}	28.0	25.4	42.55 ^{+0.25}	35.0	29.5	38.6±0.1	31	26	13 ^{+0.4}
40	1 1/2	48.8 ^{+0.4}	41.0	34.0	28.0	45.5 ^{+0.3}	35.0	30.9	48.65 ^{+0.25}	41.0	34.0	45.6±0.1	37	31	13 ^{+0.4}
50	2	61.2 ^{+0.5}	52.5	43.0	38.0	57.8 ^{+0.3}	45.8	39.4							16 ^{+0.4}
65	2 1/2	73.9 ^{+0.5}	62.5			76.8 ^{+0.4}	61.8	56.0							16 ^{+0.4}
80	3	89.8 ^{+0.5}	78.0			89.9 ^{+0.4}	73.0	67.0							16 ^{+0.4}
100	4	115.2 ^{+0.5}	102												19 ^{+0.4}

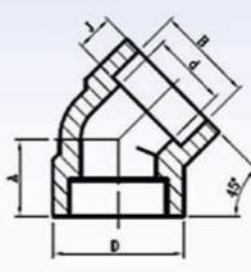
注：此页承插口尺寸表里的B、d、J与下一页示意图中B、d、J是相对应。



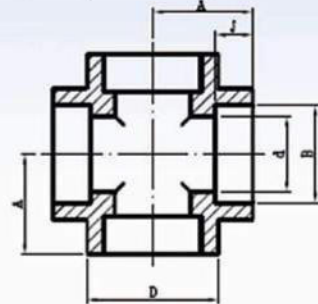
90° 弯头 Elbow



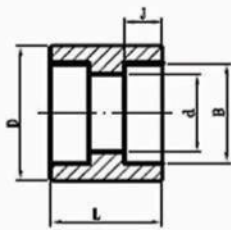
三通 Tee



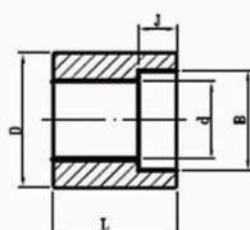
45° 弯头 Elbow



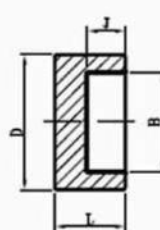
四通 Cross



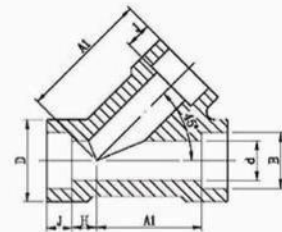
双承口管箍 Coupling



单承口管箍 Half Coupling



管帽 Cap



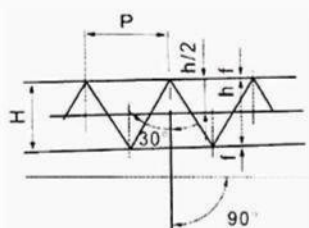
45° 斜三通 Lateral

公称通径 Nominal pipe size		外径 D Outside Diameter			90 度弯头 / 三通 / 四通中心到端 A 90° Elbow/Tee/Cross End to End A			45 度弯头中心到端 A 45° Elbow End to End A			管箍 L Coupling	半管箍 L Half Coupling	管帽 L Cap			45° 斜三通 Lateral			
DN(mm)	NPS(in)	3000LB	6000LB	9000LB	3000LB	6000LB	9000LB	3000LB	6000LB	9000LB	总长 End to End(+1.0)		3000LB	6000LB	9000LB	A1	H		
6	1/8	18.0	20.0		20.0	21.0		17.5	18.0		26	26	16	17		3000	6000	3000	6000
8	1/4	22.5	24.0		20.0	23.0		17.5	18.0		26	26	16	17					
10	3/8	26.0	28.0		22.0	25.0		18.0	21.0		26	26	16	17		37		9.5	
15	1/2	32.0	35.0	41.0	24.5	29.0	35.0	21.0	22.5	25.0	28	32	17	19	22	41	51	9.5	11
20	3/4	38.0	42.0	48.0	31.5	35.0	41.0	26.0	27.0	31.5	36	37	21	22	27	51	60	11	13
25	1	46.0	51.0	57.0	34.0	39.5	44.5	27.0	30.0	33.0	38	42	24	25	28	60	71	13	16
32	1 1/4	55.0	59.0	68.0	39.0	44.5	47.5	30.5	33.0	35.0	38	43	25	26	28	71	81	16	17
40	1 1/2	62.0	67.0	75.0	44.0	51.0	51.0	33.5	38.0	38.0	38	45	26	27	30	81	98	17	21
50	2	76.0	84.0	90.0	53.0	57.0	70.0	41.5	44.5	44.5	48	57	30	33	36	98	151	21	30
65	2 1/2	92.0	102		57.0	70.0		44.5			51	57	33	36		151		30	
65B	2 1/2	96.0	106		57.0	73		44.5			51	57	33	36		184		30	
80	3	110	120		72.0	85.0		48.0			51	60	36	39		184		57	
100	4	138			85.0			60.0			57	65	43	48		201		66	

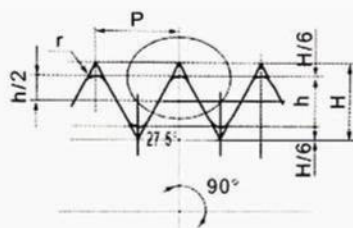
螺纹管件是采用锥管螺纹连接形式的管件,仅于英制管,不能用于公制管。

本公司生产的螺纹管件符合美国 ANSI B16.11 和 GB/T14626 标准,螺纹管件的管螺纹有美国 NPT 和 ISO7/1 两种形式,其中 ISO7/1 又有 R/RC 和 R/Rp 之分(见下表),用户订购时必须注明螺纹形式,以免出差错。

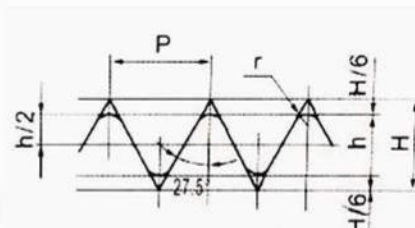
	NPT	ISO7/1	
		R/RC	R/Rp
外螺纹 M Thread	60° 锥形管螺形 60° taper pipe spiral	60° 锥形管螺形 60° taper pipe spiral	55° 锥形管螺形 55° taper pipe spiral
内螺纹 F Thread	60° 锥形管螺形 60° taper pipe spiral	60° 锥形管螺形 60° taper pipe spiral	55° 平形管螺形 55° Flat pipe spiral
密封性能 Sealing performance	好,不加密封料 Good, not encrypted sealing material	较好,不加密封料 Good, not encrypted sealing material	较差,一般应加密封料 Poor, general should be encrypted seal



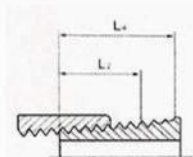
NPT 螺纹牙型
Taper pipe therad



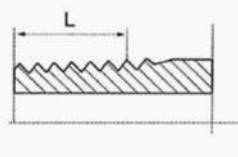
圆锥螺纹牙型
Taper pipe therad (ISO7/1)



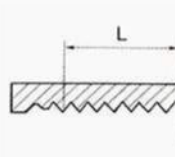
圆柱内螺纹牙型
Cylindrical pipe therad
(ISO7/1)



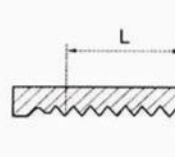
NPT 螺纹



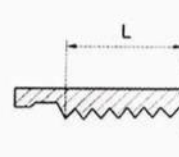
R/RC 及 R/RP 螺纹



RP (R/RP)



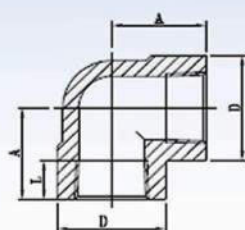
RP (R/RP)



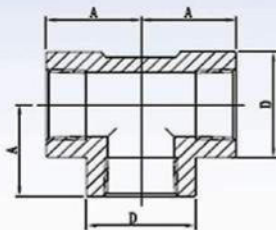
RC (R/RC)

锥管螺纹基本尺寸 Dimensions of taper pipe thread

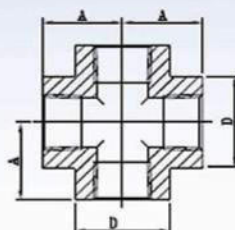
螺纹尺寸 Thread size (mm)	NPT (ANSI B1.2001;GB/T12716)					R/RC R/Rp (ISO7/1;JIS B 0203:GB7306)					
	每英寸牙数 N Number of teeth per inch	螺距 P Pitch of thread	有效螺纹长度 L2 Effective thread length	外螺纹长度 L4 External thread	牙型角 angle	每英寸牙数 N Number of teeth per inch	螺距 P Pitch of thread	有效螺纹长度 L2 Effective thread	牙型角 angle	装配长度 Assembly length	
										R/RC	R/Rp L
1/8	27	0.9408	6.7	10.0	60°	28	0.907	6.5	55°	6.2	7.4
1/4	18	1.4112	10.2	15.0		19	1.337	9.7		9.4	11
3/8	18	1.4112	10.4	15.3		19	1.337	10.1		9.7	11.4
1/2	14	1.8143	13.6	19.9		14	1.814	13.2		12.7	15
3/4	14	1.8143	13.9	20.2		14	1.814	14.5		14.1	16.3
1	11 1/2	2.2088	17.3	25.0		11	2.309	16.8		16.2	19.1
1-1/4	11 1/2	2.2088	18.0	25.6		11	2.309	19.1		18.5	21.4
1-1/2	11 1/2	2.2088	18.4	26.0		11	2.309	19.1		18.5	21.4
2	11 1/2	2.2088	19.2	26.9		11	2.309	23.4		22.8	25.7
2-1/2	8	3.175	28.9	39.9		11	2.309	26.7		26.7	30.1
3	8	3.175	30.5	41.5		11	2.309	29.8		29.8	33.3
4	8	3.175	33.0	44.0		11	2.309	35.8		35.8	39.3



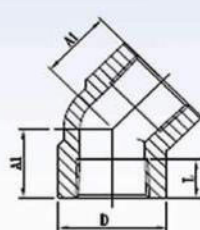
90° 弯头 Elbow



三通 Tee



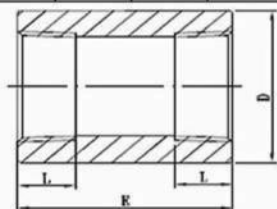
四通 Cross



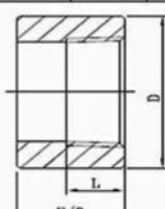
45° 弯头 Elbow

螺纹管件(一) Threaded fittings

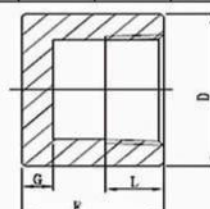
公称通径 Nominal pipe size		A			A1			D			Cmin			Lmin	
DN(mm)	NPS(in)	2000LB Sch80	3000LB Sch160	6000LB XXS	2000LB Sch80	3000LB Sch160	6000LB XXS	2000LB Sch80	3000LB Sch160	6000LB XXS	2000LB Sch80	3000LB Sch160	6000LB XXS	NPT	RC
6	1/8	21	21	25	17	17	19	22	22	25	3	3	6.5	6.9	6.5
8	1/4	21	25	29	17	19	22	22	25	33	3.5	3.5	6.5	10.4	9.7
10	3/8	25	29	33	19	22	25	25	33	38	3.5	3.5	7	10.5	10.1
15	1/2	29	33	38	22	25	28	33	38	46	4	4	8	13.6	13.2
20	3/4	33	38	44	25	28	33	38	46	56	4.5	4.5	8.5	14	14.5
25	1	38	44	51	28	33	35	46	56	62	5	5	10	17.5	16.8
32	1-1/4	44	51	60	33	35	43	56	62	75	5.5	5.5	10.5	18	19.1
40	1-1/2	51	60	64	35	43	44	62	75	84	5.5	5.5	11	18.5	19.1
50	2	60	64	83	43	44	52	75	84	102	7	7	12	19.2	23.4
65	2-1/2	76	83	95	52	52	64	92	102	121	7.5	7.5	15.5	29	26.7
80	3	86	95	106	64	64	79	110	121	146	9	9	16.5	30.5	29.8
100	4	106	114	114	79	79	79	146	152	152	11	11	18.5	33	35.8



双接口管箍 COUPLING



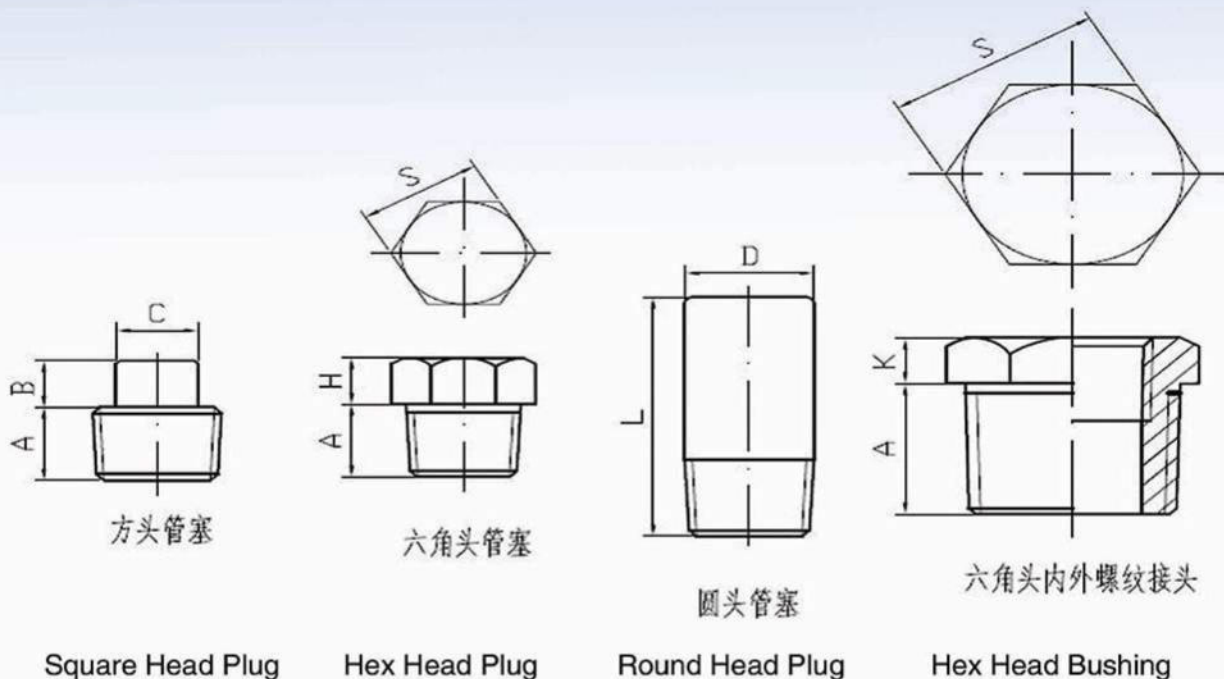
单接口管箍 HALF COUPLING



管帽 CAP

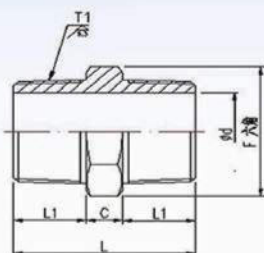
螺纹管件(二) Threaded fittings

公称通径 Nominal pipe size		D		E		F		G min		Lmin	
DN(mm)	NPS(in)	3000LB Sch160	6000LB XXS	3000LB Sch160	6000LB XXS	3000LB Sch160	6000LB XXS	3000LB Sch160	6000LB XXS	NPT	RC
6	1/8	16	22	32	19			5		6.9	6.5
8	1/4	19	25	35	25	27		5	6.5	10.4	9.7
10	3/8	22	32	38	25	27		5	6.5	10.5	10.1
15	1/2	29	38	48	32	33		6.5	8	13.6	13.2
20	3/4	35	44	51	37	38		6.5	8	14	14.5
25	1	44	57	60	41	43		9.7	11.2	17.5	16.8
32	1-1/4	57	64	67	44	46		9.7	11.2	18	19.1
40	1-1/2	64	76	79	44	48		11.2	12.7	18.5	19.1
50	2	76	92	86	48	51		12.7	16	19.2	23.4
65	2-1/2	92	108	92	60	64		16	19	29	26.7
80	3	108	127	108	65	68		19	22.4	30.5	29.8
100	4	140	159	121	68	75		22.4	28.7	33	35.8

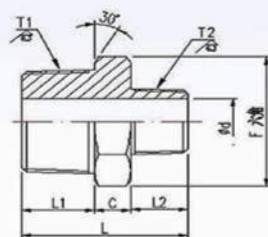


螺纹管件 (三) Threaded fittings

公称通径 Nominal pipe size		length 长度	Square Height 方头高度	Square Width Flats 方头 对边	length 总长 min	Head Diameter 圆头直径	Hex Height 六角厚度		Hex Width Flats 六角对边
DN(mm)	NPS(in)	A	B	C	L	D	H	K	S
6	1/8	9.5	6	7	35	10	6	-	11.11
8	1/4	11.1	6	9.5	41	14	6	3	15.88
10	3/8	12.5	8	11	41	18	8	4	17.46
15	1/2	14.5	10	14.5	44	21	8	5	22.23
20	3/4	16	11	16	44	27	10	6	26.99
25	1	19	13	20.5	51	33	10	6	34.93
32	1-1/4	20.5	14	24	51	43	14	7	44.45
40	1-1/2	20.5	16	28.5	51	48	16	8	50.8
50	2	22	17	33.5	64	60	17	9	63.5
65	2-1/2	27	19	38	70	73	19	10	76.2
80	3	28.5	21	43	70	89	21	10	88.9
100	4	32	25	63.5	76	114	25	13	117.48



六角等径外丝
Hex Nipple



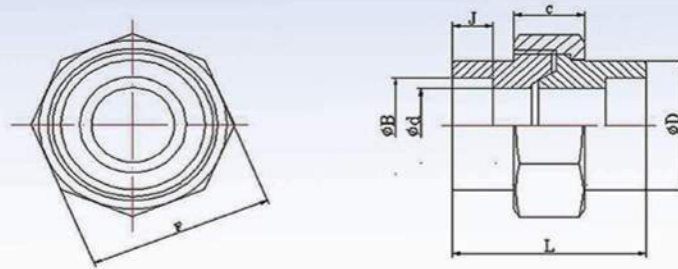
六角异径外丝
Reducing Hex Nipple

公称通径 Nominal pipe size		End to End 中心距/总 长	Width Flats 对边	Hex Height 六角厚度	length 长度	Water Way 流量孔径
DN(mm)	NPS(in)	L	F	C	L1	d
6	1/8	26	11	6	10	5
8	1/4	36	15	6	15	8
10	3/8	40	18	8	16	11
15	1/2	48	22	8	20	14
20	3/4	52	27	10	21	19
25	1	60	35	10	25	24
32	1-1/4	64	46	14	25	32
40	1-1/2	68	50	16	26	38
50	2	71	62	17	27	49
65	2-1/2	94	76	18	38	58
80	3	100	90	20	40	73
100	4	105	115	25	40	97

螺纹管件（四）Threaded fittings

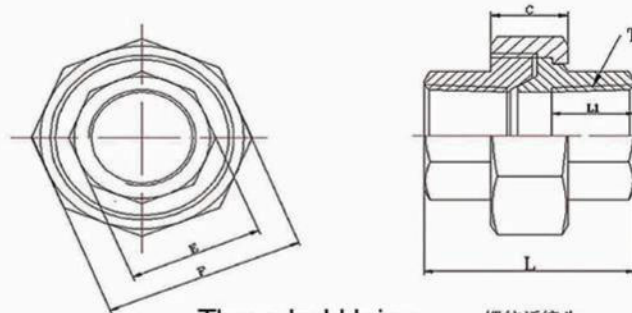
公称通径 Nominal pipe size		Reducing End to End 中心距/总长	Width Flats 对边	Hex Height 六角厚度	length 长度	length 长度	Water Way 流量孔径
DN(mm)	NPS(in)	L	F	C	L1	L2	d
6*8	1/8*1/4	31	15	6	15	10	5
6*10	1/8*3/8	34	18	8	16	10	5
10*8	3/8*1/4	39	18	8	16	15	8
12*8	1/2*1/4	43	22	8	20	15	8
15*10	1/2*3/8	44	22	8	20	16	11
20*8	3/4*1/4	45	27	9	21	15	8
20*10	3/4*3/8	46	27	9	21	16	11
20*15	3/4*1/2	50	27	9	21	20	14
25*10	1*3/8	51	35	10	25	16	11
25*15	1*1/2	55	35	10	25	20	14
25*20	1*3/4	56	35	10	25	21	19
32*15	1-1/4*1/2	59	46	14	25	20	14
32*20	1-1/4*3/4	60	46	14	25	21	19
32*25	1-1/4*1	64	46	14	25	25	24
40*20	1-1/2*3/4	63	50	16	26	21	19
40*25	1-1/2*1	67	50	16	26	25	24
40*32	1-1/2*1-1/4	67	50	16	26	25	32
50*25	2*1	70	62	18	27	25	24
50*32	2*1-1/4	70	62	18	27	25	32
50*40	2*1-1/2	71	62	18	27	26	38
65*25	2-1/2*1	81	76	18	38	25	24
65*40	2-1/2*1-1/2	82	76	18	38	26	38
65*50	2-1/2*2	83	76	18	38	27	49
80*40	3*1-1/2	86	90	20	40	26	38
80*50	3*2	87	90	20	40	27	49
80*65	3*2-1/2	98	90	20	40	38	58
100*50	4*2	92	115	25	40	27	49
100*65	4*2-1/2	103	115	25	40	38	58
100*80	4*3	105	115	25	40	40	73

注：螺丝按GB/T 12716(ANSI/ASME B1.20.1)中规定的60° 圆锥管螺纹（NPT）制造；顾客要求也可按GB7306中规定的55° 圆锥螺纹（R）制造，订货时须说明。



Socket Union

承插活接头



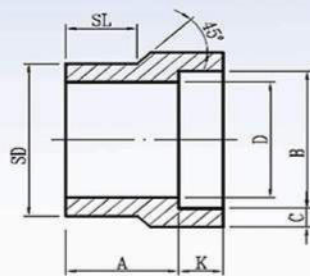
Threaded Union

螺纹活接头

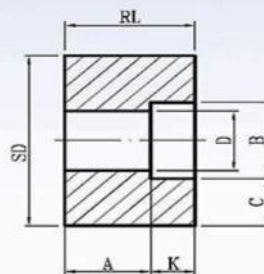
承插焊活接头 Union-Socket welding end MSS SP-83
螺纹活接头 Union-Threaded MSS SP-83

公称通径 Nominal pipe size		End to End 中心距/总长	Width A/F union nut 由壬螺母 对角/边	Outside Diameter 外径
DN(mm)	NPS(in)	L	F	D
6	1/8	41.4	34	22
8	1/4	41.4	34	22
10	3/8	46	41	26.5
15	1/2	49	46	32
20	3/4	57	54	38
25	1	62	65	46
32	1-1/4	71	76	56
40	1-1/2	76.5	86	62
50	2	86.1	102	75.5
65	2-1/2	102.5	126	92
80	3	109	150	110
100	4	130	186	138

公称通径 Nominal pipe size		End to End 中心距/总长	Width A/F union nut 由壬螺母 对角/边	Width A/F of ends 由壬 对角/边
DN(mm)	NPS(in)	L	F	E
6	1/8	41.4	34	19
8	1/4	41.4	34	19
10	3/8	46	41	23.3
15	1/2	49	46	28
20	3/4	57	54	34
25	1	62	65	42
32	1-1/4	71	76	51.5
40	1-1/2	76.5	86	58
50	2	86.1	102	70
65	2-1/2	102.5	126	88
80	3	109	150	102.4
100	4	130	186	134



1型 Type 1



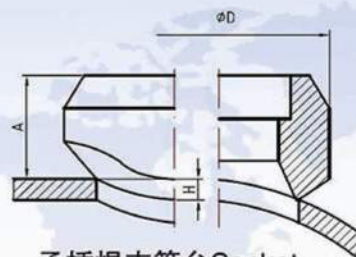
2型 Type2

变径承插焊接头 (1、2型) MSS SP-79

Socket-welding reducing insert

公称通径 Nominal pipe size	TYPE 形式		Socket Bore 承插孔径 B	Depth of Socket 承插孔深 K	Outside Diameter 外径 SD	LAYING LENGTH 中心距/总 长 A		Water Way 流量孔径 D		WALL MIN 壁厚 C		Length 长度			
												SL		RL	
	3M	6M				3M	6M	3M	6M	3M	6M	3M	6M	3M	6M
3/8*1/4	1	1	14.35	10	17.15	19	21	9	6.5	3.78	4.6	14	16	-	-
1/2*3/8	1	1	17.78	10	21.34	21	23	12.5	9	4.01	5.03	16	16	-	-
1/2*1/4	1	1	14.35	10	21.34	21	21	9	6.5	3.78	4.6	16	16	-	-
3/4*1/2	1	1	21.97	10	26.67	22	25	16	11.5	4.67	5.97	17	19	-	-
3/4*3/8	2	1	17.78	10	26.67	16	22	12.5	9	4.01	5.03	-	19	27	-
3/4*1/4	2	2	14.35	10	26.67	18	22	9	6.5	3.78	4.6	-	-	27	32
1*3/4	1	1	27.31	13	33.4	24	28	21	15.5	4.9	6.96	19	21	-	-
1*1/2	2	1	21.97	10	33.4	16	28	16	11.5	4.67	5.97	-	21	28	-
1*3/8	2	2	17.78	10	33.4	18	22	12.5	9	4.01	5.03	-	-	28	33
1*1/4	2	2	14.35	10	33.4	19	24	9	6.5	3.78	4.6	-	-	28	33
1-1/4*1	1	1	34.04	13	42.16	25	30	26.5	20.5	5.69	7.92	21	22	-	-
1-1/4*3/4	2	2	27.31	13	42.16	18	21	21	15.5	4.9	6.96	-	-	32	35
1-1/4*1/2	2	2	21.97	10	42.16	19	22	16	11.5	4.67	5.97	-	-	32	35
1-1/4*3/8	2	2	17.78	10	42.16	21	24	12.5	9	4.01	5.03	-	-	32	35
1-1/4*1/4	2	2	14.35	10	42.16	22	25	9	6.5	3.78	4.6	-	-	32	35
1-1/2*1-1/4	1	1	42.8	13	48.26	28	35	35	29.5	6.07	7.92	22	25	-	-
1-1/2*1	2	1	34.04	13	48.26	18	29	26.5	20.5	5.69	7.92	-	25	33	-
1-1/2*3/4	2	2	27.31	13	48.26	19	25	21	15.5	4.9	6.96	-	-	33	40
1-1/2*1/2	2	2	21.97	10	48.26	21	27	16	11.5	4.67	5.97	-	-	33	40
1-1/2*3/8	2	2	17.78	10	48.26	22	28	12.5	9	4.01	5.03	-	-	33	40
2*1-1/2	1	1	48.9	13	60.32	32	39	41	34	6.35	8.9	25	28	-	-
2*1-1/4	2	2	42.8	13	60.32	21	24	35	29.5	6.07	7.92	-	-	38	41
2*1	2	2	34.04	13	60.32	22	25	26.5	21	5.69	7.92	-	-	38	41
2*3/4	2	2	27.31	13	60.32	24	27	21	15.5	4.9	6.96	-	-	38	41
2*1/2	2	2	21.97	10	60.32	25	28	16	11.5	4.67	5.97	-	-	38	41
2-1/2*2	1	1	61.37	16	73.02	46	43	52.5	43	6.93	10.92	38	32	-	-
2-1/2*1-1/2	2	2	48.9	13	73.02	35	-	41	-	6.35	-	-	-	54	-
2-1/2*1-1/4	2	2	42.8	13	73.02	37	-	35	-	6.07	-	-	-	54	-
2-1/2*1	2	2	34.04	13	73.02	38	-	26.5	-	5.69	-	-	-	54	-
2-1/2*3/4	2	2	27.31	13	73.02	40	-	21	-	4.9	-	-	-	54	-
3*2-1/2	1	-	74.07	16	88.9	38	-	62.5	-	8.76	-	32	-	-	-
3*2	2	-	61.37	16	88.9	25	-	52.5	-	6.93	-	-	-	48	-
3*1-1/2	2	-	48.9	13	88.9	29	-	41	-	6.35	-	-	-	48	-
3*1-1/4	2	-	42.8	13	88.9	30	-	35	-	6.07	-	-	-	48	-
3*1	2	-	34.04	13	88.9	32	-	26.5	-	5.69	-	-	-	48	-
4*3	2	-	90.04	16	114.3	33	-	78	-	9.5	-	-	-	60	-
4*2-1/2	2	-	74.07	16	114.3	38	-	62.5	-	8.76	-	-	-	60	-
4*2	2	-	61.37	16	114.3	38	-	52.5	-	6.93	-	-	-	60	-
4*1-1/2	2	-	48.9	13	114.3	42	-	41	-	6.35	-	-	-	60	-
4*1-1/4	2	-	42.8	13	114.3	43	-	35	-	6.07	-	-	-	60	-

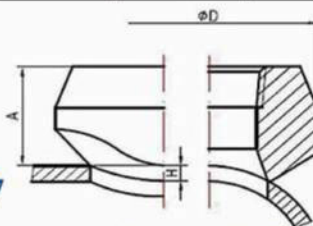
承插焊支管台 Socket MSS SP-97



承插焊支管台 Socket

支管公称通径 (Outlet Size)		适用主管公称通径 (Run Size) ≥		3000LB		6000LB	
				End to End 中心距/总长	Outside Diameter 外径	End to End 中心距/总长	Outside Diameter 外径
mm	in	mm	in	A	D	A	D
6	1/8	20	3/4	20	27	—	—
8	1/4	20	3/4	20	27	—	—
10	3/8	25	1	23	30	—	—
15	1/2	32	1 1/4	26	38	34	47
20	3/4	40	1 1/2	29	47	38	53
25	1	50	2	35	56	42	63
32	1 1/4	65	2 1/2	35	66	43	74
40	1 1/2	65	2 1/2	36.5	75	45	83
50	2	80	3	39.5	90	53	104
65	2 1/2	100	4	41	105	—	—
80	3	125	5	46	124	—	—
100	4	150	6	49	154	—	—

螺纹支管台 Threadolet MSS SP-97

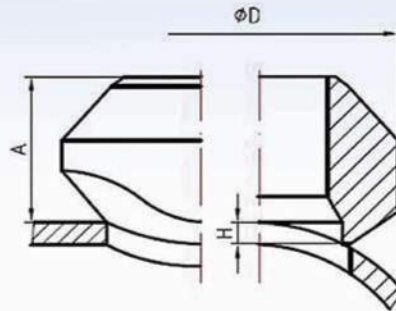


螺纹支管台 Threadolet

支管公称通径 (Outlet Size)		适用主管公称通径 (Run Size) ≥		3000LB		6000LB	
				End to End 中心距/总长	Outside Diameter 外径	End to End 中心距/总长	Outside Diameter 外径
mm	in	mm	in	A	D	—	—
6	1/8	20	3/4	19	27	—	—
8	1/4	20	3/4	19	27	—	—
10	3/8	25	1	21	30	—	—
15	1/2	32	1 1/4	25	38	32	45
20	3/4	40	1 1/2	27	47	37	52
25	1	50	2	33	56	40	63
32	1 1/4	65	2 1/2	33	66	41	72
40	1 1/2	65	2 1/2	35	75	43	83
50	2	80	3	38	90	52	104
65	2 1/2	100	4	46	105	—	—
80	3	125	5	51	124	—	—
100	4	150	6	57	154	—	—

承插焊和螺纹支管台的压力等级以及适用支管壁厚等级

压力等级	适用支管壁厚等级
3000LB	SCH40、SCH80、STD、XS
6000LB	SCH160、XXS

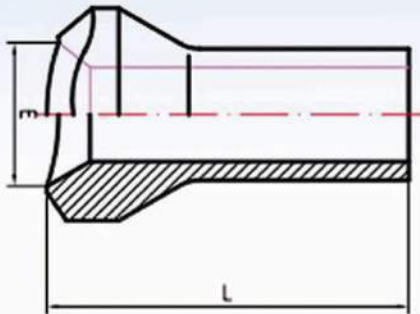


对焊支管台 Weldolet

对焊支管台

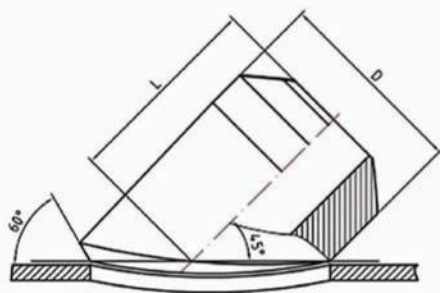
Weldolet MSS SP-97

支管公称通径 (Outlet Size)		适用主管公称通径 (Run Size)≥		高度 End to End			外径 Outside Diameter		
				A			D		
mm	in	mm	in	STD/S40	S80/XS	S160	STD/S40	S80/XS	S160/XXS
6	1/8	20	3/4	16	-	-	24	-	-
8	1/4	20	3/4	16	-	-	26	-	-
10	3/8	25	1	19	-	-	30	-	-
15	1/2	32	1 1/4	19	28	-	36	36	-
20	3/4	40	1 1/2	22	32	-	43	46	-
25	1	50	2	27	38	-	55	51	-
32	1 1/4	65	2 1/2	32	44	-	66	63	-
40	1 1/2	65	2 1/2	33	51	-	74	71	-
50	2	80	3	38	55	-	90	82	-
65	2 1/2	100	4	41	62	-	104	98	-
80	3	125	5	44	73	-	124	122	-
90	3 1/2	150	6	48	-	-	138	-	-
100	4	150	6	51	84	-	154	154	-
125	5	200	8	57	94	-	187	188	-
150	6	200	8	60	78	-	213	227	222
200	8	250	10	70	98	-	265	292	-
250	10	300	12	78	99	-	323	325	-
300	12	350	14	86	100	-	379	381	-
350	14	400	16	89	103	-	411	416	-
400	16	450	18	94	106	-	465	468	-
450	18	500	20	97	111	-	522	525	-
500	20	600	24	102	119	-	573	584	-
600	24	650	26	116	140	-	690	708	-



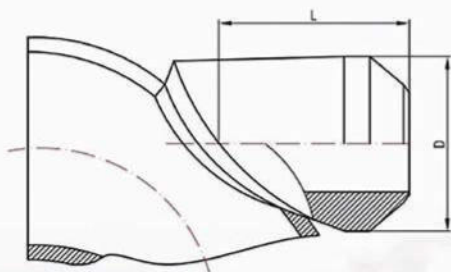
短管支管台 Nipolet

支管公称通径 (Outlet Size)		适用主管公称通径 (Run Size)≥		L
mm	in	mm	in	100 150
15	1/2	32	1 1/4	
20	3/4	40	1 1/2	
25	1	50	2	
32	1 1/4	65	2 1/2	
40	1 1/2	65	2 1/2	
50	2	80	3	



斜接支管台 Latrolet

支管公称通径 (Outlet Size)		适用主管公称通径 (Run Size)≥		L	D
mm	in	mm	in	3000LB	
15	1/2	32	1 1/4	45	36
20	3/4	40	1 1/2	50	40
25	1	50	2	60	55
32	1 1/4	65	2 1/2	63	66
40	1 1/2	80	3	75	74
50	2	100	4	90	90



弯头支管台 Elbolet

支管公称通径 (Outlet Size)		适用主管公称通径 (Run Size)≥		L	D
mm	in	mm	in	3000LB	
15	1/2	32	1 1/4	45	36
20	3/4	40	1 1/2	50	40
25	1	50	2	60	55
32	1 1/4	65	2 1/2	63	66
40	1 1/2	80	3	75	74
50	2	100	4	90	90

锤击式由壬

Weco Hammer Unions



Fig 100
1000 psi
2" to 8"

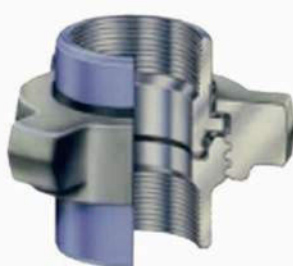


Fig 211
2000 psi
1" to 4"



Fig 602
6000 psi
1" to 4"



Fig 1502
15,000 psi
1" to 4"



Fig 200
2000 psi
1" to 4"



Fig 400
2500 to 4000 psi
2" to 12"

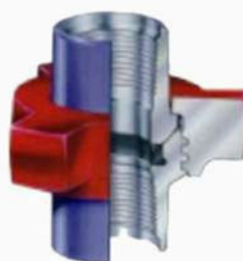


Fig 1002
10,000 psi
1" to 6"



Fig 2002
20,000 psi
2" or 3"



Fig 206
2000 psi
1" to 10"



Fig 600
6000 psi
1" to 4"

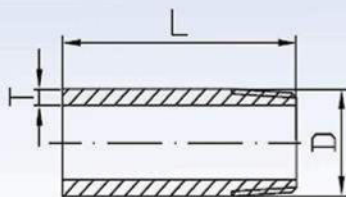


Fig 1003
10,000 psi
2" to 5"

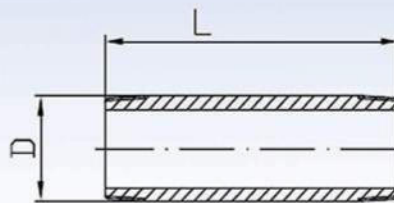


Fig 2202
15,000 psi - H₂S
2" to 3"

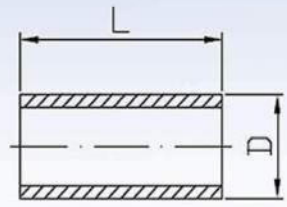
备注：锤击由壬的规格较多，在此不提供具体尺寸，客户若需要可以单独提供！



A单头螺纹短节
Half Threaded Nipple



B双头螺纹短节
Threaded Nipple



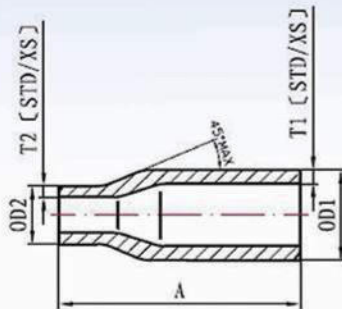
C两端平口短节
Both end plaid Nipple

A系列 series

公称通径 Nominal pipe size		外径D	SCH40 STD SCH80 XS	SCH160 XXS	长度L
DN(mm)	NPS(in)				
8	1/4	13.5	○		60 90 120 150 180
10	3/8	17.2	○		
15	1/2	21.3	○	○	
20	3/4	26.7	○	○	
25	1	33.4	○	○	
32	1-1/4	42.2	○	○	
40	1-1/2	48.3	○	○	
50	2	60.3	○	○	

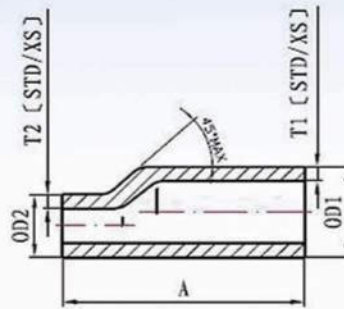
B系列 series

公称通径 Nominal pipe size		外径D	厚度T	长度L
DN(mm)	NPS(in)			
10	3/8	14	2-5	60 90 120 150 180
15	1/2	18		
20	3/4	25		
25	1	32		
32	1-1/4	38		
40	1-1/2	45		
50	2	57		



Concentric Swaged Nipple

同心异径短节



Eccentric Swaged Nipple

偏心异径短节

选用时，应予注明端口连接形式，对锥管螺纹还应注明 NPT 或 R。

型式 Type	大端 Big end	小端 small end
A	平 PE	平 PE
B		坡口 BE
C		螺纹 TH
D	坡口 BE	平 PE
E		坡口 BE
F		螺纹 TH
G	螺纹 TH	平 PE
H		坡口 BE
I		螺纹 TH

MSS SP-95-2006 渐缩管 Swage nipple

公称通径 Nominal pipe size		外径 Outside Diameter		端至端
DN(mm)	NPS(in)	OD1(mm)	OD2(mm)	"A" (mm)
8*6	1/4 x 1/8	13.7	10.3	57
10*6	3/8 x 1/8	17.1	10.3	64
10*8	3/8 x 1/4	17.1	13.7	64
15*6	1/2 x 1/8	21.3	10.3	70
15*8	1/2 x 1/4	21.3	13.7	70
15*10	1/2 x 3/8	21.3	17.1	70
20*6	3/4 x 1/8	26.7	10.3	76
20*8	3/4 x 1/4	26.7	13.7	76
20*10	3/4 x 3/8	26.7	17.1	76
20*15	3/4 x 1/2	26.7	21.3	76
25*6	1 x 1/8	33.4	10.3	89
25*8	1 x 1/4	33.4	13.7	89
25*10	1 x 3/8	33.4	17.1	89
25*15	1 x 1/2	33.4	21.3	89
25*20	1 x 3/4	33.4	26.7	89
32*6	1-1/4 x 1/8	42.2	10.3	102
32*8	1-1/4 x 1/4	42.2	13.7	102
32*10	1-1/4 x 3/8	42.2	17.1	102
32*15	1-1/4 x 1/2	42.2	21.3	102

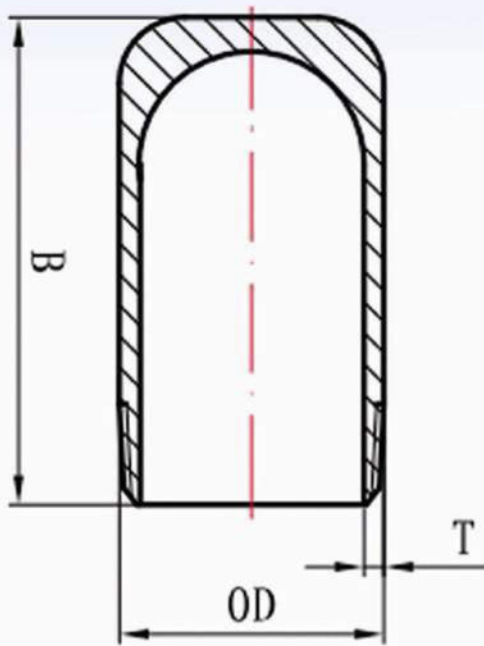
公称通径 Nominal pipe size		外径 Outside Diameter		端至端
DN(mm)	NPS(in)	OD1(mm)	OD2(mm)	"A" (mm)
32*20	1-1/4 x 3/4	42.2	26.7	102
32*25	1-1/4 x 1	42.2	33.4	102
40*6	1-1/2 x 1/8	48.3	10.3	114
40*8	1-1/2 x 1/4	48.3	13.7	114
40*10	1-1/2 x 3/8	48.3	17.1	114
40*15	1-1/2 x 1/2	48.3	21.3	114
40*20	1-1/2 x 3/4	48.3	26.7	114
40*25	1-1/2 x 1	48.3	33.4	114
40*32	1-1/2 x 1-1/4	48.3	42.2	114
50*6	2 x 1/8	60.3	10.3	165
50*8	2 x 1/4	60.3	13.7	165
50*10	2 x 3/8	60.3	17.1	165
50*15	2 x 1/2	60.3	21.3	165
50*20	2 x 3/4	60.3	26.7	165
50*25	2 x 1	60.3	33.4	165
50*32	2 x 1-1/4	60.3	42.2	165
50*40	2 x 1-1/2	60.3	48.3	165
65*6	2-1/2 x 1/8	73	10.3	178

公称通径 Nominal pipe size		外径 Outside Diameter		端至端
DN(mm)	NPS(in)	OD1(mm)	OD2(mm)	"A" (mm)
65*8	2-1/2 x 1/4	73	13.7	178
65*10	2-1/2 x 3/8	73	17.1	178
65*15	2-1/2 x 1/2	73	21.3	178
65*20	2-1/2 x 3/4	73	26.7	178
65*25	2-1/2 x 1	73	33.4	178
65*32	2-1/2 x 1-1/4	73	42.2	178
65*40	2-1/2 x 1-1/2	73	48.3	178
65*50	2-1/2 x 2	73	60.3	178
80*6	3 x 1/8	88.9	10.3	203
80*8	3 x 1/4	88.9	13.7	203
80*10	3 x 3/8	88.9	17.1	203
80*15	3 x 1/2	88.9	21.3	203
80*20	3 x 3/4	88.9	26.7	203
80*25	3 x 1	88.9	33.4	203
80*32	3 x 1-1/4	88.9	42.2	203
80*40	3 x 1-1/2	88.9	48.3	203
80*50	3 x 2	88.9	60.3	203
80*65	3 x 2-1/2	88.9	73	203
90*6	3-1/2 x 1/8	101.6	10.3	203
90*8	3-1/2 x 1/4	101.6	13.7	203
90*10	3-1/2 x 3/8	101.6	17.1	203
90*15	3-1/2 x 1/2	101.6	21.3	203
90*20	3-1/2 x 3/4	101.6	26.7	203
90*25	3-1/2 x 1	101.6	33.4	203
90*32	3-1/2 x 1-1/4	101.6	42.2	203
90*40	3-1/2 x 1-1/2	101.6	48.3	203
90*50	3-1/2 x 2	101.6	60.3	203
90*65	3-1/2 x 2-1/2	101.6	73	203
90*80	3-1/2 x 3	101.6	88.9	203
100*8	4 x 1/4	114.3	13.7	229
100*10	4 x 3/8	114.3	17.1	229
100*15	4 x 1/2	114.3	21.3	229
100*20	4 x 3/4	114.3	26.7	229
100*25	4 x 1	114.3	33.4	229
100*32	4 x 1-1/4	114.3	42.2	229
100*40	4 x 1-1/2	114.3	48.3	229
100*50	4 x 2	114.3	60.3	229

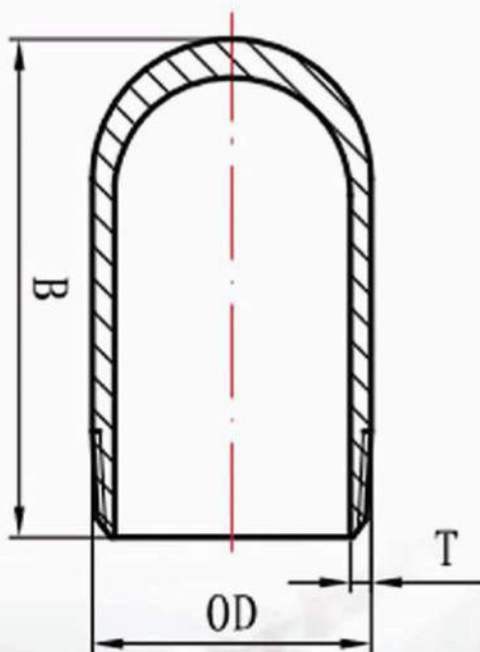
公称通径 Nominal pipe size		外径 Outside Diameter		端至端
DN(mm)	NPS(in)	OD1(mm)	OD2(mm)	"A" (mm)
100*65	4 x 2-1/2	114.3	73	229
100*80	4 x 3	114.3	88.9	229
100*90	4 x 3-1/2	114.3	101.6	229
125*8	5 x 1/4	141.3	13.7	279
128*10	5 x 3/8	141.3	17.1	279
125*15	5 x 1/2	141.3	21.3	279
125*20	5 x 3/4	141.3	26.7	279
125*25	5 x 1	141.3	33.4	279
125*32	5 x 1-1/4	141.3	42.2	279
125*40	5 x 1-1/2	141.3	48.3	279
125*50	5 x 2	141.3	60.3	279
125*65	5 x 2-1/2	141.3	73	279
125*80	5 x 3	141.3	88.9	279
125*90	5 x 3-1/2	141.3	101.6	279
125*100	5 x 4	141.3	114.3	279
150*15	6 x 1/2	168.3	21.3	304
150*20	6 x 3/4	168.3	26.7	304
150*25	6 x 1	168.3	33.4	304
150*32	6 x 1-1/4	168.3	42.2	304
150*40	6 x 1-1/2	168.3	48.3	304
150*50	6 x 2	168.3	60.3	304
150*65	6 x 2-1/2	168.3	73	304
150*80	6 x 3	168.3	88.9	304
150*90	6 x 3-1/2	168.3	101.6	304
150*100	6 x 4	168.3	114.3	304
150*125	6 x 5	168.3	141.3	304
200*25	8 x 1	219.1	33.4	330
200*32	8 x 1-1/4	219.1	42.2	330
200*40	8 x 1-1/2	219.1	48.3	330
200*50	8 x 2	219.1	60.3	330
200*65	8 x 2-1/2	219.1	73	330
200*80	8 x 3	219.1	88.9	330
200*90	8 x 3-1/2	219.1	101.6	330
200*100	8 x 4	219.1	114.3	330
200*125	8 x 5	219.1	141.3	330
200*150	8 x 6	219.1	168.3	330

MSS SP-95-2006

凸头堵头 BULL PLUGS

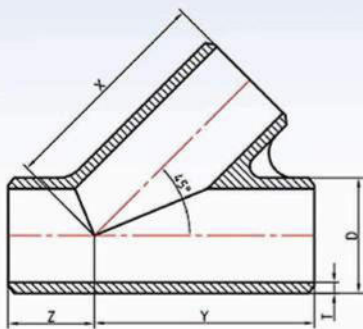


凸头堵头 (平头) BULL PLUGS (PE)

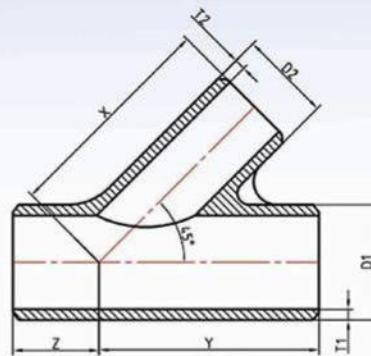


凸头堵头(圆头) BULL PLUGS (Round)

公称通径 Nominal pipe size		外径 Outside Diameter OD (mm)	端至端
DN (mm)	NPS (in)		"B" (mm)
6	1/8	10.3	51
8	1/4	13.7	51
10	3/8	17.1	57
15	1/2	21.3	64
20	3/4	26.7	70
25	1	33.4	76
32	1-1/4	42.2	83
40	1-1/2	48.3	89
50	2	60.3	102
65	2-1/2	73.0	127
80	3	88.9	152
90	3-1/2	101.6	165
100	4	114.3	178
125	5	141.3	216
150	6	168.3	254
200	8	219.1	279



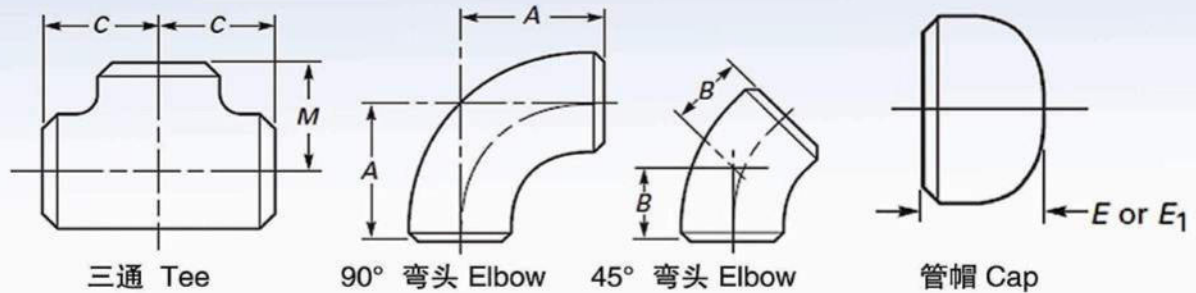
对焊等径45° 斜三通
BW Straight 45° Laterals



对焊异径45° 斜三通
BW Reducing 45° Laterals

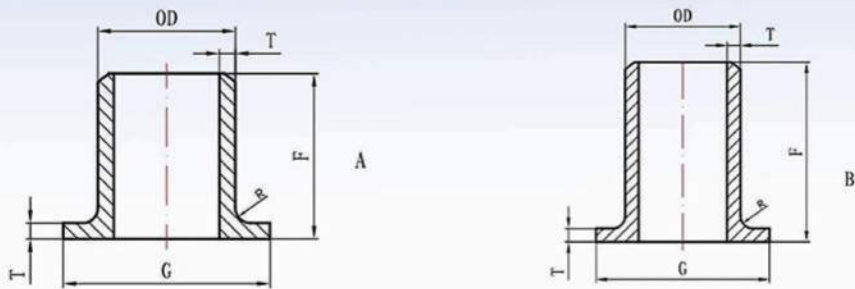
公称通径 Nominal pipe size		尺寸 Diameter	
DN(mm)	NPS(in)	X and Y	Z
25	1	146	45
32	1 1/4	159	45
40	1 1/2	178	51
50	2	203	64
65	2 1/2	241	64
80	3	254	76
90	3 1/2	292	76
100	4	305	76
125	5	343	89
150	6	368	89
200	8	445	114
250	10	521	127
300	12	622	140
350	14	686	152
400	16	762	165
450	18	813	178
500	20	889	203
600	24	1029	229
650	26	1308	267
700	28	1442	286
750	30	1524	299
800	32	1626	311
850	34	1727	330
900	36	1829	350

注：同径三通X=Y;异径三通分别按公称通径对应的X、Y选取。



公称通径 Nominal pipe size		中心至侧面尺寸 center to end			三通TEE	背部至端面尺寸 Back to Faies	
DN(mm)	NPS(in)	45° 长半径弯头 B Long Radius Elbow	90° 长半径弯头A Long Radius Elbow	90° 短半径弯头B short Radius Elbow	C、N	管帽E Cap E	管帽E1 Cap E1
15	1/2	16	38	—	25	25	—
20	3/4	19	38	—	29	25	—
25	1	22	38	25	38	38	—
32	1 1/4	25	48	32	48	38	—
40	1 1/2	29	57	38	57	38	—
50	2	35	76	51	64	38	45
65	2 1/2	44	95	64	76	38	51
80	3	51	114	76	86	51	64
100	4	64	152	102	105	64	76
125	5	79	191	127	124	76	89
150	6	95	229	152	143	89	102
200	8	127	305	203	178	102	127
250	10	159	381	254	216	127	152
300	12	190	457	305	254	152	178
350	14	222	533	356	279	165	191
400	16	254	610	406	305	178	203
450	18	286	686	457	343	203	229
500	20	318	762	508	381	229	254
550	22	343	838	559	419	254	254
600	24	381	914	610	432	267	305
650	26	406	991	630	495	267	—
700	28	438	1067	711	521	267	—
750	30	470	1143	762	559	267	—
800	32	502	1219	813	597	267	—

- 注：1、管帽的壁厚为XS时采用E1值。
2、公称通径DN > 500按钢板焊制。
3、公称通径和壁厚按SH3408 ANSI B16.9 JISB2311 GB12459 制造标准。



翻边短节 Lap joint stub Ends MSS SP-43

公称通径 Nominal pipe size		外径尺寸 Outside diameter	高度 Length F		翻边直径 Dia of lap-G		倒角半径 Radius of Fillet	
DN (mm)	NPS (in)	OD	MSS	ANSI	Nominal&Max	Nominal&Max	A Max	B Max
15	1/2	21.3	50.8	76.2	35	34	3	0.8
20	3/4	26.7	50.8	76.2	43	42	3	0.8
25	1	33.4	50.8	101.6	51	50	3	0.8
32	1 1/4	42.4	50.8	101.6	64	63	5	0.8
40	1 1/2	48.3	50.8	101.6	73	72	6	0.8
50	2	60.3	63.5	152.4	92	91	8	0.8
65	2 1/2	70	63.5	152.4	105	104	8	0.8
80	3	88.9	63.5	152.4	127	126	10	0.8
90	3 1/2	101.6	76.2	152.4	140	139	10	0.8
100	4	114.3	76.2	152.4	157	156	11	0.8
125	5	141.3	76.2	203.2	186	185	11	1.6
150	6	168.3	88.9	203.2	216	215	13	1.6
200	8	219.1	101.6	203.2	270	269	13	1.6
250	10	273.1	127	254	324	322	13	1.6
300	12	323.9	152.4	254	381	379	13	1.6
350	14	355.6	152.4	304.8	413	411	13	1.6
400	16	406.4	152.4	304.8	470	468	13	1.6
450	18	457.2	152.4	304.8	533	531	13	1.6
500	20	508	152.4	304.8	584	582	13	1.6
550	22	559	152.4	304.8	641	639	13	1.6
600	24	610	152.4	304.8	692	690	13	1.6

注:

- 1、搭接厚度 T 不小于公称壁厚。
- 2、搭接平面可按顾客要求加工成同心的锯齿状槽或螺旋纹槽。
- 3、适用于与 SCH40S 或更薄的不锈钢管子连接

钢管规格（英制管）

Steel pipe outside diamter and wall thickness

美国 ANSI B36.10和B36.19

公称通径 Nominal pipe size		外径 Outside Diameter	SCH5S	SCH10S	SCH10	SCH20	SCH30	SCH40S	STD	SCH40	SCH60	SCH80S	XS	SCH80	SCH100	SCH120	SCH140	SCH160	XXS
DN(mm)	NPS(in)																		
6	1/8	10.3	-	1.24	-	-	-	1.73	1.73	1.73	-	2.41	2.41	2.41	-	-	-	-	-
8	1/4	13.5	-	1.65	-	-	-	2.24	2.24	2.24	-	3.02	3.02	3.02	-	-	-	-	-
10	3/8	17.1	-	1.65	-	-	-	2.31	2.31	2.31	-	3.2	3.2	3.2	-	-	-	-	-
15	1/2	21.3	1.65	2.11	-	-	-	2.77	2.77	2.77	-	3.73	3.73	3.73	-	-	-	4.78	7.47
20	3/4	26.7	1.65	2.11	-	-	-	2.87	2.87	2.87	-	3.91	3.91	3.91	-	-	-	5.56	7.82
25	1	33.4	1.65	2.77	-	-	-	3.38	3.38	3.38	-	4.55	4.55	4.55	-	-	-	6.35	9.09
32	1 1/4	42.2	1.65	2.77	-	-	-	3.56	3.56	3.56	-	4.85	4.85	4.85	-	-	-	6.35	9.7
40	1 1/2	48.3	1.65	2.77	-	-	-	3.68	3.68	3.68	-	5.08	5.08	5.08	-	-	-	7.14	10.15
50	2	60.3	1.65	2.77	-	-	-	3.91	3.91	3.91	-	5.54	5.54	5.54	-	-	-	8.74	11.07
65	2 1/2	73	2.11	3.05	-	-	-	5.16	5.16	5.16	-	7.01	7.01	7.01	-	-	-	9.53	14.02
80	3	88.9	2.11	3.05	-	-	-	5.49	5.49	5.49	-	7.62	7.62	7.62	-	-	-	11.13	15.24
90	3 1/2	101.6	2.11	3.05	-	-	-	5.74	5.74	5.74	-	8.08	8.08	8.08	-	-	-	-	-
100	4	114.3	2.11	3.05	-	-	-	6.02	6.02	6.02	-	8.56	8.56	8.56	-	11.13	-	13.49	17.12
125	5	141.3	2.77	3.4	-	-	-	6.55	6.55	6.55	-	9.53	9.53	9.53	-	12.7	-	15.88	19.05
150	6	168.3	2.77	3.4	-	-	-	7.11	7.11	7.11	-	10.97	10.97	10.97	-	14.27	-	18.26	21.95
200	8	219.1	2.77	3.76	-	6.35	7.04	8.18	8.18	8.18	10.31	12.7	12.7	12.7	15.09	18.26	20.62	23.01	22.23
250	10	273	3.4	4.19	-	6.35	7.8	9.27	9.27	9.27	12.7	12.7	12.7	15.09	18.26	21.44	25.4	28.58	25.4
300	12	323.8	3.96	4.57	-	6.35	8.38	9.53	9.53	10.31	14.27	12.7	12.7	17.48	21.44	25.4	28.58	33.32	25.4
350	14	355.6	3.96	4.78	6.35	7.92	9.53	-	9.53	11.13	15.09	-	12.7	19.05	23.83	27.79	31.75	35.71	-
400	16	406.4	4.19	4.78	6.35	7.92	9.53	-	9.53	12.27	16.66	-	12.7	21.44	26.19	30.96	36.53	40.49	-
450	18	457	4.19	4.78	6.35	7.92	11.13	-	9.53	14.27	19.05	-	12.7	23.83	29.36	34.93	39.67	45.24	-
500	20	508	4.78	5.54	6.35	9.53	12.7	-	9.53	15.09	20.62	-	12.7	26.19	32.54	38.1	44.45	50.01	-
550	22	559	4.78	5.54	6.35	9.53	12.7	-	9.53	-	22.23	-	12.7	28.58	34.93	41.28	47.63	53.98	-
600	24	610	5.54	6.35	6.35	9.53	14.27	-	9.53	17.48	24.61	-	12.7	30.96	38.89	46.02	52.37	59.54	-
650	26	660	-	-	7.92	12.7	-	-	9.53	-	-	-	12.7	-	-	-	-	-	-
700	28	711	-	-	7.92	12.7	15.88	-	9.53	-	-	-	12.7	-	-	-	-	-	-
750	30	762	6.35	7.92	7.92	12.7	15.88	-	9.53	-	-	-	12.7	-	-	-	-	-	-
800	32	813	-	-	7.92	12.7	15.88	-	9.53	17.48	-	-	12.7	-	-	-	-	-	-
850	34	864	-	-	7.92	12.7	15.88	-	9.53	17.48	-	-	12.7	-	-	-	-	-	-
900	36	914	-	-	7.92	12.7	15.88	-	9.53	19.05	-	-	12.7	-	-	-	-	-	-
950	38	969	-	-	-	-	-	-	9.53	-	-	-	12.7	-	-	-	-	-	-
1000	40	1016	-	-	-	-	-	-	9.53	-	-	-	12.7	-	-	-	-	-	-
1050	42	1067	-	-	-	-	-	-	9.53	-	-	-	12.7	-	-	-	-	-	-
1100	44	1118	-	-	-	-	-	-	9.53	-	-	-	12.7	-	-	-	-	-	-
1150	46	1168	-	-	-	-	-	-	9.53	-	-	-	12.7	-	-	-	-	-	-
1200	48	1219	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

注：表列规格适用于碳钢、合金钢、不锈钢。对碳钢、合金钢SCH40仅至26in为止，且26inSCH40为18.9mm。

常用材料化学成份及机械性能

Chemical composition and Mechanical capacity of common materials

标准号 Standard	材料名称 material	使用温度 Temperature	公称厚度 nominal thickness	化学成分% Chemical composition %								其它成分% other components %	抗拉强度 Tensile strength	屈服点 yield point	延伸率 elongation	供货状态 supply state
		°C	mm	C≤	Mn≤	Si≤	S≤	P≤	Cr≤	Ni≤	Mo≤		Mpa	Mpa	%	

碳素结构钢 Carbon structural steels

JB4726	20	475	≤200	0.17-0.23	0.60-1.00	0.17-0.37	0.02	0.03	0.25	0.25		Cu≤0.25	390	215	24	N
JB4726	16Mn	475	≤300	0.13-0.19	1.20-1.60	0.20-0.60	0.02	0.03	0.3	0.3		Cu≤0.25	450	275	20	N,N+T
ASME	SA105	538	≤999	0.35	0.60-1.05	0.1-0.35	0.04	0.03	0.3	Cu≤0.40	0.12	Cu≤0.40	485	250	22	

1Cr0.5Mo钢 1Cr0.5Mo steel

JB4726	15CrMo	550	≤300	0.12-0.18	0.30-0.80	0.10-0.60	0.02	0.03	0.8-1.25	0.3	0.45-0.65	Cu≤0.25	440	275	20	N+T
JB4726	15CrMo	550	>300-500	0.12-0.18	0.30-0.80	0.10-0.60	0.02	0.03	0.8-1.25	0.3	0.45-0.65	Cu≤0.25	430	255	20	Q+T
ASME	SA182-F12,CL1	649	≤999	0.05-0.15	0.30-0.80	≤0.50	0.045	0.045	0.8-1.25		0.44-0.65		415	220	20	A,N+T
ASME	SA182-F12,CL2	649	≤999	0.10-0.20	0.30-0.80	0.10-0.60	0.04	0.04	0.8-1.25		0.44-0.65		485	275	20	A,N+T

1.25Cr0.5Mo钢 1.25Cr0.5Mo steel

ASME	SA182-F11,CL1	649	200	0.05-0.15	0.30-0.60	0.50-1.00	0.03	0.03	1.0-1.5		0.44-0.65		415	205	20	A,N+T
ASME	SA182-F11,CL2	649	200	0.10-0.20	0.30-0.80	0.50-1.00	0.04	0.04	1.0-1.5		0.44-0.65		485	275	20	A,N+T
ASME	SA182-F11,CL3	649	≤999	0.10-0.20	0.30-0.80	0.50-1.00	0.04	0.04	1.0-1.5		0.44-0.65		515	310	20	A,N+T
ASME	SA336-F11,CL1	649	≤999	0.05-0.15	0.30-0.60	0.50-1.00	0.025	0.025	1.0-1.5		0.44-0.65		415	205	20	A,N+T
ASME	SA336-F11,CL2	649	≤999	0.10-0.20	0.30-0.80	0.50-1.00	0.025	0.025	1.0-1.5		0.45-0.65		485	275	20	A,N+T
ASME	SA336-F11,CL3	649	≤999	0.10-0.20	0.30-0.80	0.50-1.00	0.025	0.025	1.0-1.5		0.45-0.65		515	310	18	A,N+T

2.25Cr1Mo钢 2.25Cr1Mo steel

ASME	SA182-F22,CL1	649	200	0.05-0.15	0.30-0.60	0.5	0.04	0.04	2.0-2.5		0.87-1.13		415	205	20	A,N+T
ASME	SA182-F22,CL3	649	200	0.05-0.15	0.30-0.60	0.5	0.04	0.04	2.0-2.5		0.87-1.13		515	310	20	A,N+T
ASME	SA336-F22,CL1	649	≤999	0.05-0.15	0.30-0.60	0.5	0.025	0.025	2.0-2.5		0.90-1.10		415	205	20	A,N+T
ASME	SA336-F22,CL3	649	≤999	0.05-0.15	0.30-0.60	0.5	0.025	0.025	2.0-2.5		0.90-1.10		515	310	19	A,N+T

低温用钢 Cryogenic steel

JB4727	16MnD	-40	≤300	0.13-0.18	1.20-1.60	0.20-0.60	0.015	0.025	0.3	0.4	Nb≤0.03,Cu≤0.25		450	275	20	Q
ASME	SA350-LF1,CL1	-28.9	≤999	0.3	0.60-1.35	0.15-0.3	0.04	0.03	0.3	0.4	0.12	Cu≤0.40 V≤0.03+Mn92	415	205	25	N+T,Q+T
ASME	SA350-LF2	-45.6	≤999	0.3	0.60-1.35	0.15-0.3	0.04	0.03	0.3	0.4	0.12	Cu≤0.40 V≤0.03	485	250	22	N+T,Q+T
ASME	SA350-LF5,CL1	-59.4	≤999	0.3	0.60-1.35	0.20-0.35	0.04	0.03	0.3	1.00-2.00	0.12	Cu≤0.40 V≤0.03	415	205	25	N+T,Q+T
ASME	SA350-LF5,CL2	-59.4	≤999	0.3	0.60-1.35	0.20-0.35	0.04	0.03	0.3	1.00-2.00	0.12	Cu≤0.40 V≤0.03	485	260	22	N+T,Q+T

奥氏体钢 Austenitic steel

JB4728	0Cr18Ni9	700	≤100	0.07	2	1	0.03	0.03	17-19	8-11			520	205	35	S
ASME	SA182-F304	815	≤130	0.08	2	1	0.03	0.045	18-20	8-11			515	205	30	S
JB4728	0Cr18Ni10Ti	700	≤100	0.08	2	1	0.03	0.03	17-19	9-12		Ti≥5xC%	520	205	35	S
ASME	SA182-F321	815	≤130	0.08	2	0.75	0.03	0.045	≥17	9-12		Ti≥5xC%-0.07	515	205	40	S
JB4728	0Cr17Ni12Mo2	700	≤100	0.08	2	1	0.03	0.03	16-18	10-14	2.0-3.0		520	205	35	S
ASME	SA182-F316	815	≤130	0.08	2	1	0.03	0.045	16-18	10-14	2.0-3.0		515	205	30	S
JB4728	00Cr19Ni10	425	≤100	0.03	2	1	0.03	0.03	18-20	8-12			480	175	35	S
ASME	SA182-F304L	425	≤130	0.035	2	1	0.03	0.045	18-20	8-13			485	170	30	S
JB4728	00Cr17Ni14Mo2	450	≤100	0.03	2	1	0.03	0.03	16-18	12-15	2.0-3.0		480	175	35	S
ASME	SA182-F316L	450	≤130	0.035	2	1	0.03	0.045	16-18	10-15	2.0-3.0		485	170	30	S

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