



信达科创，与您携手推进智能油气开采

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连续油管 毛细管 封装管缆

信达科创（唐山）石油设备有限公司



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01

关于我们



公司简介

创建于1993年的河北华通线缆集团股份有限公司，注册资本为3.49亿，现有员工1500多人，专业技术人员150多人，是一家以生产矿用电缆、潜油泵电缆、机车车辆线、核电站电缆、电力电缆、特种电缆，控制管线，连续油管为主的大型综合性企业，集科研、生产、销售、服务为一体的现代化线缆生产企业。

信达科创（唐山）石油设备有限公司系河北华通线缆集团全资子公司，注册资本为5000万元，专业研发和生产低碳合金连续油管、耐蚀合金连续油管、钛合金连续油管，液压控制管、化学剂注入管、封装管、脐带缆、加热管等电缆和连续管复合产品。

信达科创严格控制原料采购、生产工艺、检验等环节，确保产品质量。公司与国内外知名企业建立了良好的合作伙伴关系，公司逐步形成强大的人才、技术和品牌优势。公司关键设备全部进口，员工80%以上具有大专以上学历，取得了ISO9001、ISO14001、ISO45001、APIQ1、API5ST、HSE、船级社等认证，同时也是AWES（Advanced Well Equipment Standards）的会员单位。

信达科创始终坚持以“质量重于生命，责任重于泰山”为企业精神，以优质产品，及时高效的为全球石油行业服务！

企业文化

质量重于生命
责任重于泰山

华通精神

经营理念

心存感激 诚信永恒
谦恭敬重 和合共赢



信达科创，与您携手推进智能油气开采。



- ✔ 信达科创按照API 5ST及Q1的要求建立了严格的质量控制体系，所有产品的生产过程都严格按照质量控制体系进行，并保证符合质量要求。
- ✔ 先进的生产设备，成熟的技术工艺、专业的团队、严格的质量控制体系，信达科创的产品定能满足您的要求！



X射线检测



光谱仪



涡流探伤仪



超声探伤仪



万能试验机



疲劳试验机

主要检测设备



硬度仪

QHSE方针

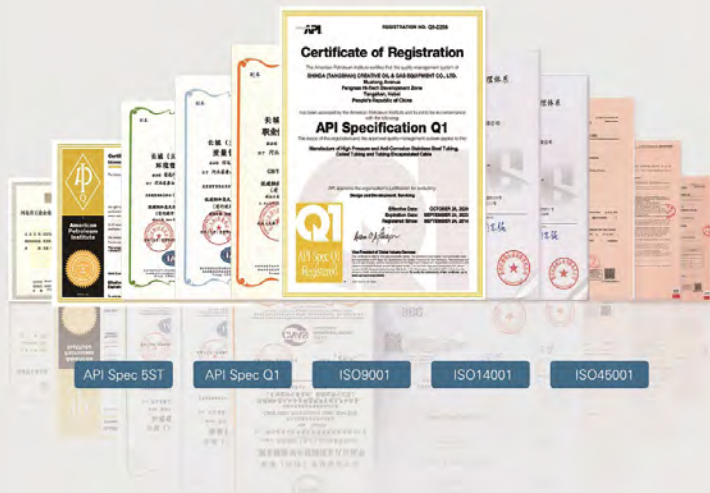
方针:

以人为本，安全为先，
诚信守法，夯实基础，
创新驱动，以质取胜。



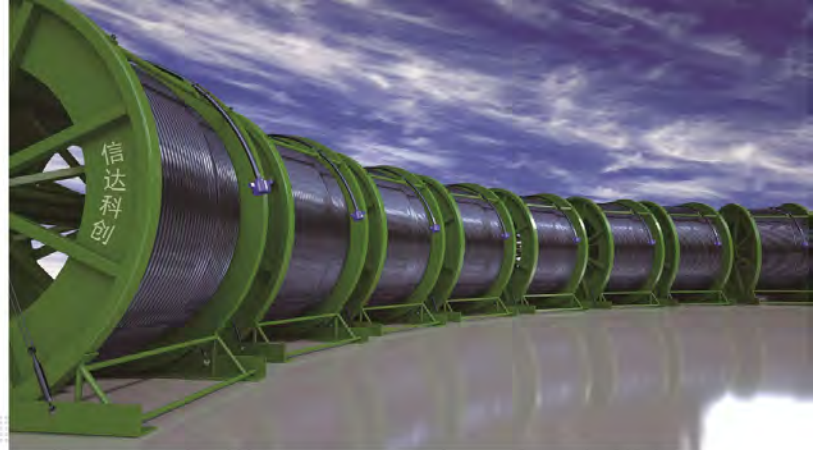
资质认证

信达科严格执行国际主流标准，建立了符合国际标准的质量管理体系，通过了API Spec 5ST、API Spec Q1、ISO9001、ISO14001和ISO45001等认证，连续油管经中国石油管材研究所检验符合API Spec 5ST要求。



02

产品系列



连续油管（碳钢、耐蚀合金、钛合金）

连续油管也称为挠性油管、蛇形管或盘管，是由若干段长度在百米以上的柔性管通过对焊或斜焊工艺焊接而成的无接头连续管。连续油管长度一般可达几百米至几千米，它可以卷绕在卷筒上，通过连续油管作业机进行特定的井下作业（如修井、钻井、射孔、增产、完井、测井等）。对应用于酸性环境，我公司分别开发了高铬耐蚀合金连续油管和钛合金连续油管。

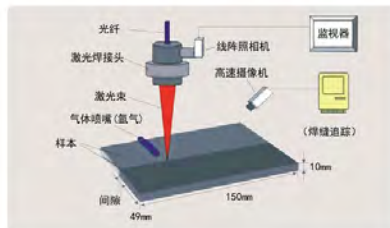
激光焊接优势

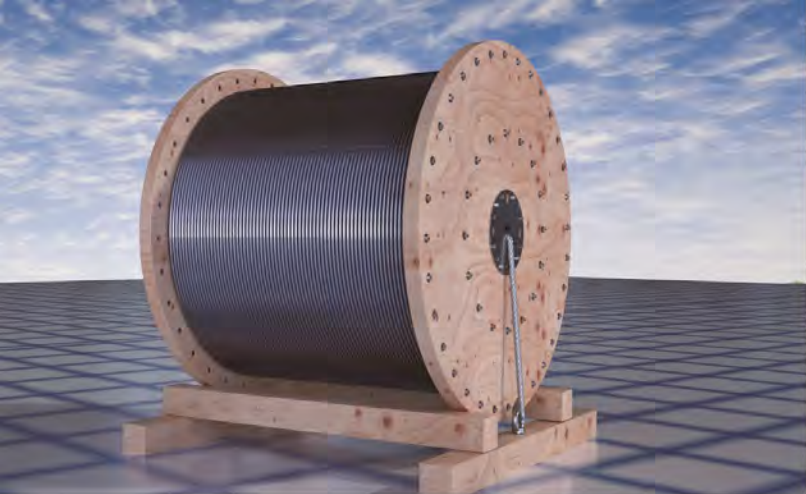
01

激光焊接内焊缝小、余高圆滑过渡、管材通径大；焊缝焊接稳定，焊筋成型及一致性优良。

02

激光焊接为自熔焊，同时整个焊接过程处于惰性气体的保护下，输入热量小，焊接牢固，不易产生脱焊、冷叠、条料边缘损伤、夹杂等缺陷。





毛细管（液压控制管、化学剂注入管）

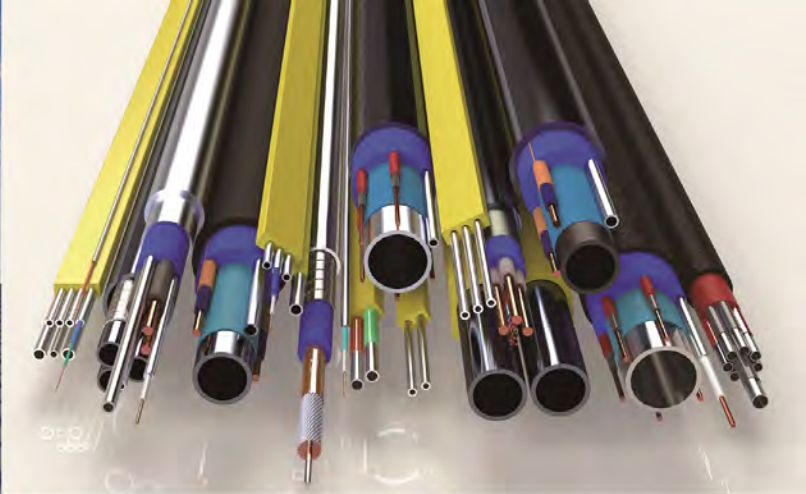
我公司提供奥氏体不锈钢、双相不锈钢、镍基合金、蒙乃尔合金焊接管和无缝管，其他合金和尺寸可根据要求进行制造。

产品特点

奥氏体不锈钢具有极强的防锈、耐腐蚀性能，又具有出色的成型和焊接特性；

双相不锈钢比奥氏体不锈钢具有更好的耐均匀腐蚀、应力腐蚀、点腐蚀、缝隙腐蚀性能，其耐腐蚀疲劳和抗磨损性能也非常优良；

镍基合金和蒙乃尔合金具有较高的耐腐蚀性和高温强度，可应用于高温高压高腐蚀环境。



封装管缆（PDC/TEC, Flat Pack）

封装管缆是用于应对油气藏开发生产过程中的恶劣环境的特殊装备，其利用不锈钢和镍基合金钢等金属材料来保护电缆等组分不受井下压力和腐蚀环境因素的影响，聚合物封装来提供额外的机械保护的一种产品，主要包含PDC/TEC (Permanent Downhole Cable/Tubing Encapsulated Cable)和Flat Pack两类产品。

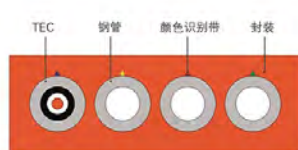
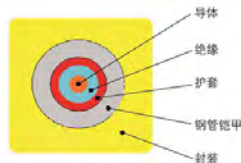
TEC钢管铠甲特点

316L具有极强的防锈、耐腐蚀性能，又具有出色的成型和焊接特性。

825具有较高的耐腐蚀性和高温强度，可应用于高温高压高腐蚀环境。

Flat Pack产品特点

兼容毛细管和TEC的特点，信达科创可以根据客户要求来进行设计和生产，性能参数参见毛细管和TEC的选型表。



03

产品技术参数

连续油管技术参数表

材质	ST70 (CT70)	ST80 (CT80)	ST90 (CT90)	ST100 (CT100)	ST110 (CT110)	ST130 (CT130)	ST318L-40	ST13Cr-90	ST2205-80	ST2607-90
化学成分										
C _{max}	0.16	0.16	0.16	0.16	0.16	0.16	0.030	0.15	0.030	0.030
Mn _{max}	1.20	1.20	1.20	1.65	1.65	1.80	2.00	2.00	2.00	1.20
P _{max}	0.025	0.020	0.020	0.025	0.025	0.025	0.045	0.120	0.030	0.035
Si _{max}	0.005	0.005	0.005	0.005	0.005	0.005	0.030	0.030	0.020	0.020
S _{max}	0.50	0.50	0.50	0.50	0.50	0.50	0.75	1.00	0.80	0.80
Cr							16.0~18.0	≥11.5	22.0~23.0	24.0~26.0
Ni							10.0~14.0		4.5~6.5	6.0~8.0
Mo							2.00~3.00		3.0~3.5	3.0~5.0
屈服强度 (min) , psi	70,000	80,000	90,000	100,000	110,000	130,000	40,000	80,000	80,000	90,000
屈服强度 (max) , psi	80,000	90,000	100,000							
抗拉强度 (min) , psi	80,000	88,000	97,000	108,000	115,000	135,000	70,000	88,000	95,000	116,000
硬度, HRC	22	22	22	28	30	35	200HV	30	30	32
扩口试验	扩口后达到最小内径时焊缝区域或母材不出现开裂									
压扁试验	在板间距离小于规定值之前, 焊缝或母材外表面上任何方向不应产生超过0.125in (3.2mm) 的裂纹或断裂。起源于试样边缘且长度小于0.25in (6.4mm) 的裂纹不应作为拒收的原因									

ST70 0.75 in to 2.0 in

外径	壁厚	单位长度质量	名义内径	管体载荷	管体载荷	最小静水压	最小内阻	静压压力
OD	t	wpe	ID	最小屈服载荷	最小抗拉载荷	试验压力	压力	静压压力
in.	in.	lbs/ft	in.	lbs	lbs	psig	psig	psig
0.750	0.080	0.075	0.570	11,800	13,500	12,200	13,600	12,600
	0.083	0.078	0.584	12,200	14,000	12,600	14,000	13,200
	0.087	0.082	0.62	12,700	14,500	13,000	14,500	13,700
	0.095	0.090	0.67	13,700	15,600	14,700	16,300	14,900
	0.102	0.097	0.71	14,500	16,600	15,800	17,600	16,000
	0.109	0.104	0.75	15,400	17,600	16,400	18,200	16,500
	0.118	0.110	0.80	16,400	18,700	17,500	19,500	17,600
	0.075	0.070	0.74	15,300	17,400	16,000	18,000	16,100
	0.080	0.075	0.79	16,200	18,300	17,000	19,000	17,100
	0.083	0.078	0.81	16,700	18,800	17,500	19,500	17,600
1.000	0.087	0.082	0.85	17,500	20,000	18,200	20,200	18,400
	0.095	0.090	0.92	18,900	21,600	19,800	22,000	20,000
	0.102	0.097	0.96	20,100	23,000	21,200	23,500	21,400
	0.108	0.104	1.04	21,400	24,400	22,600	25,000	22,800
	0.118	0.110	1.13	22,900	26,200	24,200	26,800	24,400
	0.125	0.117	1.17	24,100	27,500	25,400	28,200	25,800
	0.134	0.126	1.24	25,500	29,200	27,000	30,000	27,600
	0.075	0.070	0.94	19,400	22,100	20,200	22,400	20,200
	0.080	0.075	1.00	20,600	23,500	21,400	23,800	21,600
	0.087	0.082	1.08	22,300	25,400	23,200	25,800	23,600
1.250	0.095	0.090	1.17	24,100	27,600	25,400	28,200	25,800
	0.102	0.097	1.25	25,800	29,400	27,000	30,000	27,600
	0.109	0.104	1.33	27,400	31,300	29,000	31,800	29,400
	0.118	0.110	1.43	29,000	33,600	31,200	34,200	31,800
	0.125	0.117	1.50	30,900	35,300	33,000	36,000	33,600
	0.134	0.126	1.60	32,900	37,600	35,400	38,400	35,800
	0.145	0.137	1.71	35,200	40,300	37,600	40,800	38,200
	0.156	0.148	1.82	37,900	42,900	40,200	43,800	41,200
	0.175	0.167	2.01	41,000	47,300	44,000	48,200	45,200
	0.087	0.082	1.31	27,000	30,900	28,800	31,800	29,600
1.500	0.095	0.090	1.43	29,000	33,600	31,200	34,200	31,800
	0.102	0.097	1.52	31,200	36,300	33,800	37,000	34,600
	0.109	0.104	1.62	33,400	38,100	35,600	39,000	36,800
	0.118	0.110	1.74	35,900	41,000	38,200	41,800	39,400
	0.125	0.117	1.84	37,900	43,200	40,400	44,000	41,600
	0.134	0.126	1.96	40,300	46,000	43,000	47,000	44,600
	0.145	0.137	2.10	43,200	49,400	46,200	50,400	47,800
	0.156	0.148	2.24	46,100	52,700	49,000	53,800	51,000
	0.175	0.167	2.48	51,500	58,300	54,000	60,000	56,800
	0.188	0.180	2.64	54,200	62,000	57,400	63,800	60,200
1.750	0.204	0.196	2.83	58,100	66,400	61,600	68,200	64,600
	0.095	0.090	1.68	34,600	39,500	36,800	40,800	38,000
	0.102	0.097	1.80	37,000	42,700	39,400	43,800	40,800
	0.109	0.104	1.91	39,300	46,000	42,200	46,800	43,800
	0.118	0.110	2.05	41,700	48,400	45,200	49,800	46,800
	0.125	0.117	2.17	44,300	51,100	47,800	52,400	49,400
	0.134	0.126	2.31	46,900	54,400	50,400	55,800	52,400
	0.145	0.137	2.49	49,600	58,500	53,800	59,800	55,800
	0.156	0.148	2.66	52,400	62,500	57,400	63,800	59,400
	0.175	0.167	2.95	60,600	69,300	64,600	71,800	67,800
2.000	0.188	0.180	3.14	64,600	73,800	68,800	75,800	71,800
	0.204	0.196	3.37	69,200	79,400	74,200	81,800	77,800
	0.224	0.216	3.65	75,200	86,900	80,800	89,400	84,800
	0.250	0.242	4.01	82,900	94,200	87,800	96,800	91,800
	0.109	0.104	2.20	47,800	51,800	48,800	52,800	49,800
	0.118	0.110	2.37	50,600	55,800	51,600	56,600	52,600
	0.125	0.117	2.51	53,400	59,800	55,400	60,800	56,800
	0.134	0.126	2.67	56,200	63,800	58,800	64,800	59,800
	0.145	0.137	2.88	59,200	67,800	62,800	68,800	63,800
	0.156	0.148	3.08	62,400	72,300	66,800	73,300	67,800
2.000	0.175	0.167	3.41	68,800	80,300	74,800	81,800	76,800
	0.188	0.178	3.64	74,900	86,600	80,800	88,200	82,800
	0.204	0.192	3.92	80,600	92,100	86,200	93,800	88,200
	0.224	0.212	4.25	87,600	100,000	93,800	102,000	96,800
	0.250	0.238	4.68	96,200	110,000	102,000	112,000	106,800
	0.276	0.261	5.09	104,600	119,600	110,200	121,200	115,800
	0.291	0.268	5.16	108,200	121,400	111,800	123,000	117,600

ST70 2.375 in to 3.5 in

外径	壁厚		单位长度重量	名义内径	管径数据		最小静水压试验压力	最小内屈服压力	静水压
	规定	最小			最小屈服强度	最小抗拉强度			
OD	t	W _{min}	W _{lb/ft}	ID	lb _s	lb _s	psi _g	psi _g	psi _g
in.	in.	in.		in.	lb _s	lb _s	psi _g	psi _g	psi _g
2.375	0.109	0.104	2.84	2.157	54,300	62,100	5,400	6,000	3,200
	0.118	0.110	2.85	2.139	58,600	66,900	5,900	6,500	3,900
	0.125	0.117	3.01	2.125	61,900	70,700	6,200	6,900	4,600
	0.134	0.126	3.21	2.107	66,000	75,500	6,700	7,400	5,300
	0.145	0.137	3.46	2.085	71,100	81,300	7,300	8,100	6,400
	0.156	0.148	3.70	2.063	76,100	87,000	7,800	8,700	7,400
	0.175	0.167	4.12	2.025	84,700	96,800	8,600	9,600	8,800
	0.188	0.176	4.40	1.999	90,400	103,300	9,300	10,300	9,700
	0.204	0.192	4.73	1.967	97,400	111,300	10,100	11,200	10,500
	0.224	0.212	5.15	1.927	106,000	121,100	11,100	12,300	11,400
	0.250	0.238	5.68	1.875	116,800	133,500	12,400	13,600	12,700
	0.276	0.261	6.19	1.823	127,400	145,600	13,400	14,900	13,700
2.875	0.281	0.266	6.29	1.813	129,400	147,900	13,600	15,100	13,800
	0.300	0.285	6.65	1.775	136,900	156,500	14,500	16,100	14,700
	0.316	0.310	7.15	1.738	145,300	166,300	15,500	17,300	15,800
	0.325	0.317	7.33	1.733	148,700	170,500	15,700	17,600	16,000
	0.344	0.326	7.78	1.695	158,100	182,300	17,000	19,000	17,500
	0.364	0.344	8.34	1.657	168,500	194,700	18,400	20,600	19,100
	0.384	0.364	8.91	1.619	179,000	207,700	19,900	22,300	20,800
	0.404	0.384	9.50	1.581	190,600	221,300	21,500	24,100	22,600
	0.424	0.404	10.10	1.543	203,400	235,500	23,200	26,000	24,500
	0.444	0.424	10.71	1.505	217,400	250,300	25,000	28,000	26,500
	0.464	0.444	11.34	1.467	232,600	265,700	26,900	30,100	28,600
	0.484	0.464	11.98	1.429	249,000	281,700	28,900	32,300	30,800
3.250	0.504	0.484	12.64	1.391	266,600	298,300	31,000	34,600	33,100
	0.524	0.504	13.31	1.353	285,400	316,100	33,200	37,000	35,500
	0.544	0.524	14.00	1.315	305,400	335,100	35,500	39,500	38,000
	0.564	0.544	14.71	1.277	326,600	355,300	37,900	42,100	40,600
	0.584	0.564	15.44	1.239	349,000	376,700	40,400	44,800	43,200
	0.604	0.584	16.19	1.201	372,600	399,300	43,000	47,600	45,900
	0.624	0.604	16.96	1.163	397,400	423,100	45,700	50,500	48,800
	0.644	0.624	17.75	1.125	423,400	448,100	48,500	53,500	51,800
	0.664	0.644	18.56	1.087	450,600	474,300	51,400	56,600	54,900
	0.684	0.664	19.39	1.049	479,000	501,700	54,400	59,800	58,100
	0.704	0.684	20.24	1.011	508,600	530,300	57,500	63,100	61,400
	0.724	0.704	21.11	0.973	539,400	560,100	60,700	66,500	64,800
3.500	0.744	0.724	22.00	0.935	571,400	591,100	64,000	70,000	68,300
	0.764	0.744	22.91	0.897	604,600	623,300	67,400	73,600	71,900
	0.784	0.764	23.84	0.859	639,000	656,700	70,900	77,300	75,600
	0.804	0.784	24.79	0.821	674,600	691,300	74,500	81,100	79,400
	0.824	0.804	25.76	0.783	711,400	727,100	78,200	85,000	83,300
	0.844	0.824	26.75	0.745	750,400	764,100	82,000	89,000	87,300
	0.864	0.844	27.76	0.707	791,600	802,300	85,900	93,100	91,400
	0.884	0.864	28.79	0.669	835,000	841,700	90,000	97,300	95,600
	0.904	0.884	29.84	0.631	880,600	883,300	94,200	101,600	99,900
	0.924	0.904	30.91	0.593	928,400	927,100	98,500	106,000	104,300
	0.944	0.924	32.00	0.555	978,400	973,100	103,000	110,500	108,800
	0.964	0.944	33.11	0.517	1,030,600	1,021,300	107,600	115,100	113,400
	0.984	0.964	34.24	0.479	1,085,000	1,071,700	112,300	120,000	118,300

ST80 0.75 in to 2.0 in

外径	壁厚		单位长度重量	名义内径	管径数据		最小静水压试验压力	最小内屈服压力	静水压
	规定	最小			最小屈服强度	最小抗拉强度			
OD	t	W _{min}	W _{lb/ft}	ID	lb _s	lb _s	psi _g	psi _g	psi _g
in.	in.	in.		in.	lb _s	lb _s	psi _g	psi _g	psi _g
0.750	0.060	0.075	0.57	0.590	13,500	15,200	14,000	15,600	14,400
	0.063	0.078	0.59	0.584	13,900	15,700	14,700	16,300	15,000
	0.067	0.082	0.62	0.576	14,500	16,300	15,400	17,100	15,700
	0.069	0.080	0.67	0.560	15,600	17,600	16,700	18,600	17,000
	0.102	0.097	0.71	0.546	16,800	18,700	17,500	20,100	18,300
	0.109	0.104	0.75	0.532	17,800	19,800	17,500	20,800	19,000
	0.118	0.110	0.80	0.514	18,700	21,100	17,500	22,300	20,100
	0.075	0.090	0.74	0.650	17,600	19,600	18,000	20,100	18,300
	0.060	0.075	0.75	0.840	18,500	20,800	10,600	11,800	11,100
	0.063	0.078	0.81	0.834	19,100	21,500	11,200	12,400	11,600
	0.067	0.082	0.86	0.826	20,000	22,500	11,700	13,000	12,100
	0.069	0.080	0.92	0.810	21,600	24,300	12,800	14,200	13,200
1.000	0.102	0.097	0.98	0.796	23,000	25,900	13,900	15,400	14,700
	0.109	0.104	1.04	0.782	24,400	27,500	14,400	16,000	15,200
	0.118	0.110	1.11	0.764	26,200	29,400	15,400	17,100	15,700
	0.125	0.117	1.17	0.750	27,500	30,900	16,500	18,300	16,700
	0.134	0.126	1.24	0.732	29,200	32,800	17,500	19,400	17,600
	0.075	0.070	0.94	1.100	22,100	24,900	8,100	9,000	8,600
	0.080	0.075	1.00	1.090	23,500	26,500	8,600	9,600	7,400
	0.087	0.082	1.08	1.076	25,400	28,600	9,500	10,500	8,900
	0.095	0.090	1.17	1.060	27,600	31,000	10,300	11,400	10,700
	0.102	0.097	1.25	1.046	29,400	33,100	11,200	12,400	11,600
	0.109	0.104	1.33	1.032	31,300	35,200	12,100	13,400	12,600
	0.118	0.110	1.43	1.014	33,600	37,800	12,400	13,800	12,800
1.250	0.125	0.117	1.50	1.000	35,300	39,800	13,300	14,800	13,700
	0.134	0.126	1.60	0.982	37,600	42,300	14,100	15,700	14,600
	0.145	0.137	1.71	0.960	40,300	45,300	15,400	17,100	15,700
	0.156	0.148	1.82	0.938	42,900	48,300	16,700	18,500	16,800
	0.175	0.167	2.01	0.900	47,300	53,200	17,500	20,200	18,400
	0.087	0.082	1.31	1.292	36,900	41,800	7,900	8,800	8,200
	0.095	0.090	1.43	1.210	33,500	37,700	8,600	9,600	7,500
	0.102	0.097	1.52	1.250	35,800	40,300	9,400	10,400	8,800
	0.109	0.104	1.62	1.262	38,100	42,900	9,700	10,800	9,500
	0.118	0.110	1.74	1.264	41,000	46,100	10,400	11,600	10,900
	0.125	0.117	1.84	1.250	43,200	48,600	11,200	12,400	11,600
	0.134	0.126	1.98	1.232	45,000	51,800	11,900	13,200	12,500
1.500	0.145	0.137	2.10	1.210	45,400	52,600	12,400	14,400	13,400
	0.156	0.148	2.24	1.188	47,700	55,700	13,000	15,400	14,400
	0.175	0.167	2.40	1.150	50,300	58,600	13,500	16,400	15,700
	0.188	0.180	2.64	1.124	52,000	60,700	14,000	17,400	16,700
	0.204	0.196	2.83	1.092	55,400	64,700	14,800	18,400	17,900
	0.095	0.090	1.68	1.500	39,500	44,500	7,400	8,200	5,400
	0.102	0.097	1.80	1.546	42,200	47,600	8,000	8,900	6,500
	0.109	0.104	1.91	1.532	45,000	50,600	8,400	9,300	7,100
	0.118	0.110	2.06	1.514	48,400	54,400	9,000	10,000	8,200
	0.125	0.117	2.17	1.500	51,100	57,400	9,600	10,700	9,300
	0.134	0.126	2.31	1.482	54,400	61,200	10,300	11,400	10,700
	0.145	0.137	2.49	1.460	58,500	65,800	11,200	12,400	11,600
1.750	0.156	0.148	2.66	1.438	62,500	70,300	12,100	13,400	12,600
	0.175	0.167	2.95	1.400	69,300	77,900	13,300	14,800	13,700
	0.188	0.180	3.14	1.374	73,800	83,000	14,200	15,800	14,600
	0.204	0.196	3.37	1.342	79,200	89,400	15,400	17,100	15,700
	0.224	0.216	3.65	1.302	85,900	96,600	16,800	18,700	17,100
	0.250	0.242	4.01	1.250	94,200	106,000	17,500	20,300	18,900
	0.109	0.104	2.20	1.762	51,800	58,300	7,300	8,100	5,30

ST80 2.375 in to 3.50 in

外径 OD in.	壁厚		单位长度 重量 wps lbs/ft	名义内径 ID in.	管径数据		最小静水压 试验压力 psig	最小内屈服 压力 psig	抗拉强度 psig
	规定 t in.	最小 tmin in.			最小壁厚数据 lbs	最小抗拉数据 lbs			
2.375	0.109	0.104	2.64	2.157	62,100	69,600	8,200	6,900	3,400
	0.118	0.110	2.85	2.139	66,900	75,300	8,700	7,400	4,100
	0.125	0.117	3.01	2.125	70,700	79,600	7,100	7,900	4,900
	0.134	0.126	3.21	2.107	75,500	84,900	7,600	8,400	5,800
	0.145	0.137	3.46	2.085	81,300	91,400	8,300	9,200	7,000
	0.156	0.148	3.70	2.063	87,000	97,900	9,000	10,000	8,200
	0.175	0.167	4.12	2.025	96,800	108,900	9,900	11,000	9,900
	0.198	0.176	4.40	1.999	103,300	116,300	10,600	11,800	11,000
	0.204	0.192	4.73	1.967	111,300	125,200	11,500	12,800	11,900
	0.224	0.212	5.15	1.897	121,200	136,200	12,700	14,100	13,100
	0.250	0.238	5.68	1.875	133,500	150,200	14,200	15,800	14,600
	0.276	0.261	6.19	1.823	145,600	163,800	15,300	17,000	15,600
2.625	0.281	0.266	6.29	1.813	147,900	166,400	15,500	17,200	15,800
	0.300	0.285	6.65	1.775	156,500	176,000	16,800	18,400	16,800
	0.318	0.310	3.15	2.389	74,300	83,600	6,000	6,700	3,200
	0.325	0.317	3.33	2.376	78,500	88,400	6,500	7,200	3,800
	0.334	0.326	3.55	2.357	83,900	94,500	6,800	7,600	4,500
	0.345	0.337	3.84	2.336	90,400	101,700	7,600	8,400	5,000
	0.356	0.348	4.12	2.313	96,800	106,900	8,100	9,000	6,200
	0.375	0.367	4.58	2.275	107,800	121,200	9,000	10,000	8,700
	0.388	0.376	4.90	2.249	115,100	128,500	9,600	10,700	9,300
	0.404	0.392	5.28	2.217	124,100	138,600	10,400	11,600	10,900
	0.424	0.412	5.76	2.177	135,200	152,100	11,400	12,700	11,900
	0.450	0.438	6.35	2.125	149,200	167,900	12,900	14,300	13,500
2.875	0.476	0.463	6.93	2.073	162,900	183,300	14,000	15,600	14,400
	0.501	0.486	7.04	2.063	165,500	186,200	14,100	15,700	14,500
	0.500	0.485	7.46	2.025	175,300	197,200	15,100	16,800	15,400
	0.534	0.526	3.93	2.607	92,300	103,800	6,300	7,000	3,500
	0.545	0.537	4.23	2.585	99,500	111,900	6,800	7,600	4,500
	0.556	0.548	4.53	2.563	106,600	119,900	7,500	8,300	5,000
	0.575	0.567	5.05	2.525	118,600	133,600	8,200	9,100	6,800
	0.588	0.576	5.40	2.499	127,000	142,800	8,800	9,800	7,900
	0.604	0.592	5.82	2.467	136,900	154,100	9,500	10,600	9,200
	0.624	0.612	6.35	2.427	149,200	167,900	10,500	11,700	11,000
	0.650	0.638	7.02	2.375	164,900	185,600	11,900	13,200	12,300
	0.676	0.661	7.67	2.323	180,300	202,800	12,800	14,200	13,200
3.125	0.681	0.666	7.79	2.313	183,200	206,100	13,000	14,400	13,300
	0.700	0.685	8.29	2.275	194,200	218,400	13,900	15,400	14,200
	0.745	0.737	4.81	2.960	113,200	127,300	6,100	6,900	3,300
	0.756	0.748	5.16	2.938	121,300	136,500	6,600	7,300	4,000
	0.775	0.767	5.75	2.900	135,200	152,200	7,100	8,100	5,200
	0.788	0.776	6.15	2.874	144,700	162,900	7,800	8,700	6,100
	0.804	0.792	6.64	2.842	158,200	175,700	8,500	9,400	7,300
	0.824	0.812	7.25	2.802	170,400	191,700	9,400	10,400	8,900
	0.850	0.838	8.02	2.750	188,500	212,100	10,500	11,700	10,900
	0.876	0.861	8.77	2.698	206,300	232,100	11,300	12,600	11,800
	0.901	0.886	9.52	2.646	220,700	253,900	11,600	12,800	11,900
	0.900	0.885	9.46	2.690	222,400	260,200	12,300	13,700	12,700
3.500	0.956	0.948	5.58	3.188	131,100	147,500	6,100	6,800	3,400
	0.976	0.967	6.22	3.150	146,200	164,600	6,800	7,500	4,300
	0.988	0.976	6.66	3.124	156,600	176,100	7,300	8,100	6,100
	1.004	0.992	7.19	3.092	169,000	190,100	7,900	8,800	6,900
	1.024	1.012	7.84	3.052	184,400	207,500	8,600	9,600	7,600
	1.050	1.038	8.69	3.000	204,200	229,700	9,800	10,900	9,600
	1.076	1.061	9.51	2.948	223,600	251,600	10,500	11,700	11,000
	1.081	1.066	9.67	2.938	227,300	258,800	10,700	11,900	11,200
	1.100	1.085	10.26	2.900	241,300	271,400	11,500	12,800	11,900

ST90 0.75 in to 2.0 in

外径 OD	壁厚		单位长度 重量 wps lbs/ft	名义内径 ID	管径数据		最小静水压 试验压力 psig	最小内屈服 压力 psig	抗拉强度 psig
	规定 t in.	最小 tmin in.			最小壁厚数据 lbs	最小抗拉数据 lbs			
in.	in.	in.	lbs/ft	in.	lbs	lbs	psig	psig	psig
0.750	0.080	0.075	0.57	0.590	15,200	16,300	15,800	17,500	16,100
	0.083	0.078	0.59	0.584	15,700	16,800	16,600	18,400	16,900
	0.087	0.082	0.62	0.576	16,300	17,500	17,300	19,200	17,600
	0.095	0.090	0.67	0.560	17,600	19,000	17,600	21,000	19,100
	0.102	0.097	0.71	0.548	18,700	20,100	17,500	22,600	20,500
	0.109	0.104	0.75	0.532	19,800	21,300	17,500	23,400	21,200
	0.118	0.110	0.80	0.514	21,100	22,700	17,500	25,100	22,500
1.000	0.075	0.070	0.74	0.650	19,600	21,100	11,300	12,600	11,100
	0.080	0.075	0.79	0.640	20,800	22,400	12,000	13,300	12,200
	0.083	0.078	0.81	0.634	21,500	23,200	12,600	14,000	13,000
	0.087	0.082	0.85	0.626	22,500	24,200	13,100	14,600	13,600
	0.095	0.090	0.92	0.610	24,300	26,200	14,400	16,000	14,800
	0.102	0.097	0.98	0.796	25,900	27,900	15,600	17,300	16,000
	0.109	0.104	1.04	0.782	27,600	29,600	16,200	18,000	16,500
1.250	0.118	0.110	1.11	0.764	29,400	31,700	17,300	19,200	17,600
	0.125	0.117	1.17	0.750	30,900	33,300	17,500	20,600	18,700
	0.134	0.126	1.24	0.732	32,800	35,400	17,600	21,900	19,800
	0.075	0.070	0.94	1.100	24,900	26,500	9,100	10,100	7,100
	0.080	0.075	1.00	1.090	26,500	28,500	9,600	10,700	8,000
	0.087	0.082	1.08	1.076	28,600	30,800	10,600	11,800	9,700
	0.095	0.090	1.17	1.060	31,400	33,400	11,600	12,900	11,500
1.500	0.102	0.097	1.25	1.048	33,100	35,700	12,500	13,900	13,000
	0.109	0.104	1.33	1.032	35,200	37,900	13,100	14,600	13,500
	0.118	0.110	1.43	1.014	37,600	40,700	14,000	15,600	14,400
	0.125	0.117	1.50	1.000	39,900	42,900	14,900	16,400	15,000
	0.134	0.126	1.60	0.982	42,300	45,600	15,800	17,200	16,300
	0.145	0.137	1.71	0.960	45,300	48,600	17,300	19,000	17,600
	0.156	0.148	1.82	0.938	48,300	52,000	17,500	20,800	18,900
1.750	0.175	0.167	2.01	0.900	53,200	57,300	17,500	22,800	20,600
	0.087	0.082	1.31	1.326	34,600	37,500	8,900	9,900	8,700
	0.095	0.090	1.43	1.310	37,700	40,700	9,700	10,800	9,100
	0.102	0.097	1.57	1.296	40,300	43,500	10,500	11,700	9,900
	0.109	0.104	1.62	1.282	42,900	46,200	11,000	12,200	10,400
	0.118	0.110	1.74	1.264	46,100	49,700	11,800	13,100	11,800
	0.125	0.117	1.84	1.250	48,600	52,400	12,600	14,000	13,000
2.000	0.134	0.126	1.96	1.232	51,800	55,800	13,400	14,900	13,800
	0.145	0.137	2.10	1.210	55,600	59,500	14,600	15,800	15,000
	0.156	0.148	2.24	1.188	59,300	63,900	15,800	17,000	16,100
	0.175	0.167	2.48	1.150	65,600	70,700	17,000	18,200	17,200
	0.188	0.180	2.64	1.124	69,700	75,200	17,500	20,500	19,700
	0.204	0.196	2.83	1.092	74,800	80,600	17,500	22,200	20,200
	0.095	0.090	1.68	1.560	47,500	47,500	8,300	9,200	5,700
2.250	0.102	0.097	1.80	1.546	47,500	51,200	9,000	10,000	7,000
	0.109	0.104	1.91	1.532	50,600	54,600	9,400	10,400	7,600
	0.118	0.110	2.06	1.514	54,400	58,700	10,100	11,200	8,900
	0.125	0.117	2.17	1.500	57,400	61,900	10,800	12,000	10,100
	0.134	0.126	2.31	1.482	60,600	65,000	11,500	12,800	11,400
	0.145	0.137	2.49	1.460	65,800	70,900	12,500	13,900	13,000
	0.156	0.148	2.66	1.438	70,300	75,800	13,600	15,100	14,000
2.500	0.175	0.167	2.95	1.400	77,900	84,000	14,900	16,600	15,400
	0.188	0.180	3.14	1.374	83,000	89,500	15,900	17,700	16,300
	0.204	0.196	3.37	1.342	89,200	96,100	17,300	19,000	17,600
	0.224	0.216	3.68	1.302	96,600	104,200	17,500	21,100	19,200
	0.250	0.242	4.01	1.250	106,000	114,300	17,500	23,500	21,300
	0.109	0.104	2.20	1.782	58,300	62,600	8,300	9,200	5,800
	0.118	0.110	2.37	1.764	62,600	67,700	8,900	9,900	6,700
2.750	0.125	0.117	2.51	1.750	65,300	70,700	9,500	10,500	7,200
	0.134	0.126	2.67	1.732	70,700	76,200	10,100	11,200	8,500
	0.145	0.137	2.88	1.710	75,100	82,000	11,100	12,300	10,500
	0.156	0.148	3.08	1.688	81,300	87,700	12,000	13,300	12,200
	0.175	0.167	3.41	1.650	90,300	97,300	13,100	14,600	13,000
	0.188	0.176	3.64	1.629	96,300	103,800	14,000	15,600	14,500
	0.204	0.192	3.92	1.592	103,600	111,600	15,300	17,000	15,700
3.000	0.224	0.212	4.25	1.552	112,500	121,000	16,200	18,000	16,900
	0.250	0.238	4.68	1.500	123,700	133,000	17,500	20,800	19,000
	0.276	0.261	5.09	1.448	134,500	145,000	17,500	22,400	20,300
	0.281	0.266	5.16	1.438	136,800	147,200	17,600	22,700	20,600

ST90 2.375 in to 3.5 in

外径	壁厚		单位长度重量	名义内径	管体重量		最小静水压试验压力	最小内屈服压力	抗拉压力
	规定	最小			最小屈服载荷	最小抗拉载荷			
OD	t	t _{min}	wpe	ID	lbs	lbs	psig	psig	psig
in.	in.	in.	lbs/ft	in.	lbs	lbs	psig	psig	psig
2.375	0.109	0.104	2.54	2.157	69,800	75,300	8,900	7,700	3,600
	0.118	0.110	2.85	2.139	75,300	81,200	7,800	8,300	4,300
	0.125	0.117	3.01	2.125	79,500	85,700	8,000	8,900	5,200
	0.134	0.126	3.21	2.107	84,900	91,800	8,600	9,500	6,100
	0.145	0.137	3.46	2.086	91,400	98,800	9,400	10,400	7,600
	0.156	0.148	3.70	2.063	97,900	105,600	10,100	11,200	8,900
	0.175	0.167	4.12	2.025	108,900	117,300	11,200	12,400	10,700
	0.188	0.178	4.40	1.999	118,300	125,300	12,000	13,300	12,100
	0.204	0.192	4.73	1.967	125,200	135,000	13,000	14,400	13,400
	0.224	0.212	5.15	1.927	136,200	146,800	14,200	15,800	14,700
	0.250	0.238	5.69	1.875	150,200	161,900	16,000	17,800	16,300
	0.276	0.261	6.19	1.823	163,800	176,500	17,200	19,100	17,500
	0.281	0.266	6.29	1.813	166,400	179,300	17,600	19,400	17,800
	0.300	0.285	6.65	1.775	176,000	189,700	17,500	20,700	18,900
	0.318	0.310	7.05	1.739	185,600	200,100	18,000	21,900	20,100
	0.334	0.326	7.45	1.703	195,200	210,500	18,500	23,100	21,300
2.625	0.109	0.104	2.54	2.157	69,800	75,300	8,900	7,700	3,600
	0.118	0.110	2.85	2.139	75,300	81,200	7,800	8,300	4,300
	0.125	0.117	3.01	2.125	79,500	85,700	8,000	8,900	5,200
	0.134	0.126	3.21	2.107	84,900	91,800	8,600	9,500	6,100
	0.145	0.137	3.46	2.086	91,400	98,800	9,400	10,400	7,600
	0.156	0.148	3.70	2.063	97,900	105,600	10,100	11,200	8,900
	0.175	0.167	4.12	2.025	108,900	117,300	11,200	12,400	10,700
	0.188	0.178	4.40	1.999	118,300	125,300	12,000	13,300	12,100
	0.204	0.192	4.73	1.967	125,200	135,000	13,000	14,400	13,400
	0.224	0.212	5.15	1.927	136,200	146,800	14,200	15,800	14,700
	0.250	0.238	5.69	1.875	150,200	161,900	16,000	17,800	16,300
	0.276	0.261	6.19	1.823	163,800	176,500	17,200	19,100	17,500
	0.281	0.266	6.29	1.813	166,400	179,300	17,600	19,400	17,800
	0.300	0.285	6.65	1.775	176,000	189,700	17,500	20,700	18,900
	0.318	0.310	7.05	1.739	185,600	200,100	18,000	21,900	20,100
	0.334	0.326	7.45	1.703	195,200	210,500	18,500	23,100	21,300
2.875	0.109	0.104	2.54	2.157	69,800	75,300	8,900	7,700	3,600
	0.118	0.110	2.85	2.139	75,300	81,200	7,800	8,300	4,300
	0.125	0.117	3.01	2.125	79,500	85,700	8,000	8,900	5,200
	0.134	0.126	3.21	2.107	84,900	91,800	8,600	9,500	6,100
	0.145	0.137	3.46	2.086	91,400	98,800	9,400	10,400	7,600
	0.156	0.148	3.70	2.063	97,900	105,600	10,100	11,200	8,900
	0.175	0.167	4.12	2.025	108,900	117,300	11,200	12,400	10,700
	0.188	0.178	4.40	1.999	118,300	125,300	12,000	13,300	12,100
	0.204	0.192	4.73	1.967	125,200	135,000	13,000	14,400	13,400
	0.224	0.212	5.15	1.927	136,200	146,800	14,200	15,800	14,700
	0.250	0.238	5.69	1.875	150,200	161,900	16,000	17,800	16,300
	0.276	0.261	6.19	1.823	163,800	176,500	17,200	19,100	17,500
	0.281	0.266	6.29	1.813	166,400	179,300	17,600	19,400	17,800
	0.300	0.285	6.65	1.775	176,000	189,700	17,500	20,700	18,900
	0.318	0.310	7.05	1.739	185,600	200,100	18,000	21,900	20,100
	0.334	0.326	7.45	1.703	195,200	210,500	18,500	23,100	21,300

ST100 0.75 in to 2.0 in

外径	壁厚		单位长度重量 wpe	名义内径 ID	管体重量		最小静水压 试验压力	最小内屈服 压力	抗拉压力
	规定	最小			最小屈服载荷	最小抗拉载荷			
OD	t	tmin		ID	lbs	lbs	psig	psig	psig
in.	in.	in.	lbs/ft	in.	lbs	lbs	psig	psig	psig
0.750	0.080	0.075	0.57	0.590	16,800	18,200	17,600	19,600	17,900
	0.083	0.078	0.69	0.594	17,400	18,800	17,500	20,400	18,800
	0.087	0.082	0.82	0.576	18,000	19,400	17,500	21,400	19,800
	0.095	0.090	0.97	0.560	19,600	21,100	17,600	23,300	21,200
	0.102	0.097	0.71	0.546	20,800	22,400	17,600	25,100	22,800
	0.109	0.104	0.75	0.532	21,900	23,700	17,500	26,000	23,500
	0.118	0.110	0.80	0.514	23,400	25,300	17,500	27,800	25,100
	0.075	0.070	0.74	0.505	21,800	23,500	12,600	14,000	12,000
	0.080	0.075	0.79	0.540	22,100	25,000	13,300	14,800	13,300
	0.083	0.078	0.81	0.534	23,300	25,800	14,000	15,500	14,500
	0.087	0.082	0.85	0.526	26,000	27,000	14,700	16,300	15,200
	0.095	0.090	0.92	0.510	27,000	29,200	16,900	17,700	16,500
	0.102	0.097	0.98	0.796	28,800	31,100	17,300	19,200	17,700
	0.109	0.104	1.04	0.782	30,500	33,000	17,500	20,000	18,400
	0.118	0.110	1.11	0.764	32,700	35,300	17,500	21,400	19,600
1.000	0.125	0.117	1.17	0.750	34,400	37,100	17,600	22,800	20,800
	0.134	0.126	1.24	0.732	36,500	39,400	17,500	24,200	22,000
	0.075	0.070	0.94	1.100	27,700	29,900	10,100	11,200	7,600
	0.080	0.075	1.00	1.090	29,400	31,800	10,700	11,900	8,500
	0.087	0.082	1.08	1.076	31,800	34,300	11,800	13,100	10,500
	0.095	0.090	1.17	1.060	34,500	37,200	12,900	14,300	12,500
	0.102	0.097	1.25	1.046	36,800	39,700	14,000	15,500	14,500
	0.109	0.104	1.33	1.032	39,100	42,200	14,500	16,100	15,100
	0.118	0.110	1.43	1.014	42,000	45,300	15,800	17,300	16,000
	0.125	0.117	1.50	1.000	44,200	47,700	16,700	18,500	17,100
	0.134	0.126	1.60	0.982	47,000	50,700	17,500	19,600	18,100
	0.145	0.137	1.71	0.960	50,300	54,400	17,500	21,400	19,600
	0.156	0.148	1.82	0.938	53,600	57,900	17,500	23,100	21,000
	0.175	0.167	2.01	0.900	59,100	63,800	17,500	25,300	22,900
	0.087	0.082	1.31	1.268	41,700	43,800	9,800	10,900	7,100
1.250	0.095	0.090	1.43	1.310	41,600	45,300	10,800	12,000	8,700
	0.102	0.097	1.52	1.296	44,800	48,400	11,700	13,000	10,400
	0.109	0.104	1.62	1.282	47,800	51,400	12,200	13,500	11,200
	0.118	0.110	1.74	1.264	51,200	55,300	13,100	14,500	12,600
	0.125	0.117	1.84	1.250	54,000	58,300	14,000	15,500	14,500
	0.134	0.126	1.96	1.235	57,500	62,100	14,900	16,500	15,400
	0.145	0.137	2.10	1.210	61,000	65,700	15,800	17,500	16,300
	0.156	0.148	2.24	1.188	65,900	71,100	17,500	19,500	17,900
	0.175	0.167	2.48	1.150	72,800	78,700	17,500	21,400	19,600
	0.188	0.180	2.64	1.124	77,500	83,700	17,500	22,800	20,800
	0.204	0.196	2.83	1.092	83,100	89,700	17,500	24,700	22,400
	0.095	0.090	1.88	1.560	49,400	53,300	9,300	10,300	8,000
	0.102	0.097	1.96	1.546	52,000	56,000	10,000	11,000	8,700
	0.109	0.104	2.05	1.533	54,700	60,700	10,400	11,600	9,100
	0.118	0.110	2.06	1.514	60,500	65,300	11,300	12,500	9,800
1.750	0.125	0.117	2.17	1.500	63,800	68,900	12,000	13,300	10,900
	0.134	0.126	2.31	1.482	68,000	73,500	12,800	14,200	12,400
	0.145	0.137	2.49	1.460	73,100	79,000	14,000	15,500	14,500
	0.156	0.148	2.66	1.438	78,100	84,400	15,100	16,500	15,500
	0.175	0.167	2.96	1.400	86,600	93,500	16,700	18,500	17,100
	0.188	0.180	3.14	1.374	92,300	99,600	17,500	19,700	18,200
	0.204	0.196	3.37	1.342	99,100	107,000	17,500	21,400	19,600
	0.224	0.216	3.65	1.302	107,400	116,000	17,500	23,400	21,300
	0.250	0.242	4.01	1.250	117,800	127,200	17,500	26,200	23,600
	0.109	0.104	2.20	1.702	64,800	69,900	9,200	10,200	5,800
	0.118	0.110	2.37	1.684	68,800	73,900	9,600	10,600	7,100
	0.125	0.117	2.51	1.650	73,600	78,500	10,000	11,000	8,300
	0.134	0.126	2.67	1.622	78,600	84,800	11,300	12,500	9,600
	0.145	0.137	2.80	1.710	84,500	91,300	12,200	13,000	11,400
	2.000	0.156	0.148	3.08	1.688	90,900	97,600	13,300	14,800
0.175		0.167	3.41	1.650	100,300	108,400	14,700	16,300	15,200
0.188		0.176	3.64	1.624	107,000	115,600	15,700	17,400	16,100
0.204		0.192	3.92	1.692	115,100	124,300	17,000	18,900	17,100
0.224		0.212	4.26	1.662	125,000	138,000	17,000	19,900	18,200
0.250		0.236	4.66	1.620	137,400	148,800	17,500	22,000	21,000
0.276		0.261	5.06	1.448	149,500	161,400	17,500	24,800	22,600
0.281		0.266	5.16	1.438	151,800	163,800	17,500	25,200	22,900

ST100 2.375 in to 3.5 in

外径 OD	壁厚		单位长度重量 lbs/ft	名义内径 ID	管体数据		最小静水压 试验压力	最小内屈服 压力	挤塑压力
	规定 t	最小 t _{min}			最小屈服数据 lbs	最小抗拉数据 lbs			
in	in	in	lbs/ft	in	lbs	lbs	psig	psig	psig
2.375	0.109	0.104	2.84	2.157	77,600	83,800	7,700	8,600	3,800
	0.118	0.110	2.85	2.139	83,700	90,400	8,300	9,200	4,500
	0.126	0.117	3.01	2.125	88,400	95,400	8,900	9,900	5,400
	0.134	0.126	3.21	2.107	94,300	101,900	9,500	10,500	5,800
	0.146	0.137	3.46	2.085	101,600	109,700	10,400	11,500	6,000
	0.156	0.148	3.70	2.063	108,600	117,500	11,300	12,500	6,600
	0.175	0.167	4.12	2.025	121,000	130,600	12,400	13,800	11,600
	0.188	0.176	4.40	1.989	129,200	139,500	13,200	14,700	13,200
	0.204	0.192	4.73	1.967	139,100	150,300	14,400	16,000	14,800
	0.224	0.212	5.15	1.927	151,400	163,500	15,800	17,600	16,300
	0.250	0.238	5.68	1.875	166,900	180,200	17,500	19,700	18,200
	0.276	0.261	6.19	1.823	182,000	196,600	19,000	21,200	19,500
	0.291	0.266	6.29	1.813	184,900	199,600	19,100	21,600	19,700
	0.300	0.265	6.35	1.775	195,500	211,200	17,500	23,100	21,000
	0.318	0.310	7.15	2.384	92,300	100,800	7,600	8,400	3,800
	0.325	0.317	3.33	2.376	98,200	106,000	8,100	9,000	4,200
2.625	0.134	0.126	3.55	2.357	104,900	113,300	8,800	9,600	4,900
	0.145	0.137	3.84	2.336	113,000	122,000	9,400	10,400	5,200
	0.156	0.148	4.12	2.313	121,000	130,700	10,200	11,300	5,700
	0.175	0.167	4.56	2.275	134,700	145,600	11,300	12,500	6,500
	0.188	0.176	4.90	2.249	143,900	155,400	12,100	13,400	11,000
	0.204	0.192	5.28	2.217	155,200	167,600	13,100	14,500	12,800
	0.224	0.212	5.75	2.177	169,000	182,500	14,300	15,900	14,900
	0.250	0.238	6.35	2.125	186,500	201,500	16,100	17,900	16,600
	0.276	0.261	6.93	2.073	203,700	220,000	17,400	19,300	17,800
	0.291	0.266	7.04	2.063	206,800	223,500	17,600	19,600	18,100
	0.300	0.285	7.46	2.025	219,100	236,700	17,600	21,000	19,200
	0.314	0.310	3.83	2.607	115,400	124,600	7,800	8,700	3,900
	0.325	0.317	4.23	2.595	124,400	134,300	8,600	9,600	4,800
	0.336	0.328	4.53	2.563	133,300	143,900	9,300	10,300	5,100
	0.346	0.338	4.83	2.531	142,000	153,400	10,000	11,000	5,400
	0.356	0.348	5.13	2.499	150,700	162,800	10,700	11,800	5,700
2.875	0.204	0.192	5.82	2.467	171,200	184,900	12,000	13,300	10,800
	0.224	0.212	6.36	2.427	186,600	201,500	13,100	14,600	13,000
	0.250	0.238	7.02	2.375	206,200	222,700	14,800	16,400	15,300
	0.276	0.261	7.67	2.323	225,400	243,400	15,900	17,700	16,400
	0.291	0.266	7.79	2.313	229,000	247,300	16,200	18,000	16,700
	0.300	0.285	8.26	2.275	242,700	262,100	17,400	19,300	17,800
	0.314	0.310	4.81	2.960	141,400	152,800	7,600	8,400	3,700
	0.325	0.317	5.16	2.908	151,800	163,800	8,300	9,200	4,400
	0.336	0.328	5.46	2.856	162,000	174,600	9,000	10,000	4,700
	0.346	0.338	5.75	2.804	172,000	185,200	9,700	10,700	5,000
	0.356	0.348	6.04	2.752	182,000	195,700	10,400	11,400	5,300
	0.366	0.358	6.33	2.700	192,000	206,000	11,100	12,100	5,600
	0.376	0.368	6.62	2.648	202,000	216,200	11,800	12,800	5,900
	0.386	0.378	6.91	2.596	212,000	226,300	12,500	13,500	6,200
	0.396	0.388	7.20	2.544	222,000	236,400	13,200	14,200	6,500
3.125	0.250	0.238	8.02	2.750	239,600	254,500	13,100	14,600	13,000
	0.276	0.261	8.77	2.698	257,300	278,500	14,100	15,700	14,700
	0.291	0.266	8.92	2.688	262,100	283,100	14,400	16,000	14,900
	0.300	0.285	9.46	2.650	278,000	300,300	15,400	17,100	15,900
	0.314	0.310	5.58	3.188	163,900	177,400	7,700	8,500	3,700
	0.325	0.317	6.22	3.150	182,800	197,000	8,500	9,400	4,600
	0.336	0.328	6.86	3.112	198,600	211,200	9,300	10,200	5,100
	0.346	0.338	7.19	3.092	211,200	226,100	9,900	10,900	5,400
	0.356	0.348	7.52	3.062	223,600	240,900	10,600	11,600	5,700
	0.366	0.358	7.85	3.000	235,300	255,300	11,200	12,300	6,000
	0.376	0.368	8.18	2.944	249,600	270,600	12,000	13,100	6,300
	0.386	0.378	8.51	2.888	264,000	285,600	12,800	13,900	6,600
	0.396	0.388	8.84	2.832	278,400	300,600	13,600	14,700	6,900
	0.406	0.398	9.17	2.776	292,800	315,600	14,400	15,500	7,200
	0.416	0.408	9.50	2.720	307,200	330,600	15,200	16,300	7,500
3.500	0.250	0.238	8.69	3.000	255,300	275,700	12,200	13,600	11,300
	0.276	0.261	9.61	2.944	279,600	301,900	13,200	14,700	13,100
	0.291	0.266	9.67	2.938	284,200	306,900	13,400	14,900	13,400
	0.300	0.285	10.26	2.900	301,600	325,700	14,400	16,000	14,900

ST110 0.75 in to 2.0 in

外径	壁厚		单位长度重量	名义内径	管体数据		最小静水压 试验压力	最小内屈服 压力	挤塑压力
	标准	最小			最小屈服数据	最小抗拉数据			
OD	t	t _{min}	wsp	ID	lbs	lbs	psig	psig	psig
in	in	in	lbs/ft	in	lbs	lbs	psig	psig	psig
0.750	0.080	0.075	0.57	0.590	18,500	19,400	17,500	21,400	19,700
	0.083	0.078	0.59	0.584	19,100	20,000	17,500	22,500	20,700
	0.087	0.082	0.62	0.578	19,900	20,800	17,500	23,500	21,600
	0.096	0.090	0.67	0.560	21,600	22,500	17,500	25,600	23,300
	0.102	0.097	0.71	0.546	22,800	23,900	17,500	27,700	25,100
	0.109	0.104	0.75	0.532	24,100	25,200	17,500	28,700	25,900
	0.118	0.110	0.80	0.514	25,800	26,900	17,500	30,600	27,600
	0.075	0.070	0.74	0.860	24,000	25,100	13,800	15,400	12,900
	0.080	0.075	0.79	0.840	25,400	26,600	14,800	16,200	14,300
	0.083	0.078	0.81	0.834	26,300	27,500	15,400	17,100	15,700
1.000	0.087	0.082	0.85	0.826	27,400	28,700	16,100	17,900	16,700
	0.095	0.090	0.92	0.810	29,700	31,100	17,500	19,500	18,100
	0.102	0.097	1.00	0.792	31,700	33,100	17,500	21,200	19,500
	0.109	0.104	1.04	0.782	33,600	35,100	17,500	22,900	20,200
	0.118	0.110	1.11	0.764	36,000	37,600	17,500	23,500	21,600
	0.125	0.117	1.17	0.750	37,800	39,500	17,500	25,100	22,900
	0.134	0.126	1.24	0.732	40,100	41,900	17,500	26,600	24,200
	0.075	0.070	0.94	1.100	30,500	31,800	11,200	12,400	7,900
	0.080	0.075	1.00	1.090	32,300	33,800	11,700	13,000	9,000
	0.087	0.082	1.08	1.076	35,000	36,800	13,000	14,400	11,200
1.250	0.095	0.090	1.17	1.060	37,900	39,600	14,100	15,700	13,400
	0.102	0.097	1.25	1.046	40,500	42,300	15,300	17,000	15,800
	0.109	0.104	1.33	1.032	43,600	44,900	16,500	18,300	17,700
	0.118	0.110	1.43	1.014	46,200	48,300	17,100	19,000	18,600
	0.125	0.117	1.50	1.000	48,800	50,800	17,500	20,300	18,800
	0.134	0.126	1.60	0.982	51,700	54,000	17,500	21,600	19,900
	0.145	0.137	1.71	0.960	55,400	57,900	17,500	23,500	21,500
	0.156	0.148	1.82	0.938	59,000	61,700	17,500	25,400	23,100
	0.175	0.167	2.01	0.900	65,000	68,000	17,500	27,800	25,200
	0.087	0.082	1.31	1.326	42,500	44,400	10,800	12,000	7,400
1.500	0.095	0.090	1.43	1.310	45,100	48,200	11,900	13,200	9,300
	0.102	0.097	1.52	1.296	49,300	51,500	12,900	14,300	11,100
	0.109	0.104	1.62	1.282	52,400	54,800	13,400	14,900	12,000
	0.118	0.110	1.74	1.264	56,400	58,900	14,400	16,000	13,800
	0.125	0.117	1.84	1.250	59,400	62,100	15,400	17,100	15,700
	0.134	0.126	1.96	1.232	63,300	66,100	16,400	18,200	16,900
	0.145	0.137	2.10	1.210	67,300	71,000	17,500	19,600	18,300
	0.156	0.148	2.24	1.194	72,500	75,700	17,500	21,400	19,700
	0.175	0.167	2.48	1.150	80,100	83,800	17,500	23,600	21,600
	0.188	0.180	2.64	1.124	85,200	89,100	17,500	25,100	22,900
1.750	0.204	0.196	2.83	1.092	91,400	95,500	17,500	27,200	24,600
	0.095	0.090	1.68	1.580	84,300	86,800	10,200	11,300	6,200
	0.102	0.097	1.78	1.548	88,100	90,900	11,100	12,200	6,800
	0.109	0.104	1.91	1.532	91,800	94,600	11,500	12,800	6,800
	0.118	0.110	2.06	1.514	96,500	99,600	12,300	13,700	10,200
	0.125	0.117	2.17	1.500	100,200	103,400	13,200	14,700	11,700
	0.134	0.126	2.31	1.482	104,800	108,200	14,000	15,600	13,300
	0.145	0.137	2.49	1.460	110,400	114,100	15,000	17,000	15,600
	0.156	0.148	2.66	1.438	116,000	119,800	16,700	18,500	17,200
	0.175	0.167	2.90	1.406	125,000	129,000	17,500	20,000	18,800
2.000	0.188	0.180	3.14	1.374	131,500	136,100	17,500	21,700	20,000
	0.204	0.196	3.37	1.342	138,000	143,800	17,500	23,500	21,500
	0.224	0.216	3.65	1.302	148,100	153,500	17,500	25,700	23,400
	0.250	0.242	4.01	1.250	159,600	165,500	17,500	28,800	26,000
	0.109	0.104	2.20	1.782	171,200	174,500	10,100	11,200	6,000
	0.118	0.110	2.37	1.764	176,700	180,200	10,800	12,000	7,400
	0.125	0.117	2.51	1.750	181,000	184,700	11,600	12,900	8,800
	0.134	0.126	2.67	1.732	186,400	190,100	12,300	13,700	10,200
	0.145	0.137	2.89	1.710	193,000	197,200	13,500	15,000	12,200
	0.156	0.148	3.08	1.688	199,400	203,900	14,800	16,200	14,300
	0.175	0.167	3.41	1.650	210,400	215,400	16,100	17,900	16,700
	0.188	0.176	3.64	1.624	217,700	223,100	17,200	19,100	17,700
	0.204	0.192	3.92	1.602	226,600	232,400	17,500	20,700	19,200
	0.224	0.212	4.25	1.552	237,500	243,700	17,500	22,700	20,900
	0.250	0.238	4.60	1.500	250,000	257,000	17,500	25,400	23,200
	0.276	0.261	5.09	1.448	264,400	271,900	17,500	27,400	24,900
	0.291	0.266	5.16	1.431	266,900	274,500	17,500	27,800	25,200

ST110 2.375 in to 3.5 in

外径	壁厚	最小	单位长度重量	名义内径	管体重量	管体重量	最小静水压	最小内径	静水压
OD	t	tmin	wgt	ID	lbs	lbs	psig	psig	psig
in	in	in	lbs/ft	in	lbs	lbs	psig	psig	psig
2.375	0.109	0.104	2.84	2.157	85,400	89,200	8,600	9,500	3,900
	0.118	0.110	2.85	2.139	92,000	96,200	9,200	10,200	4,700
	0.125	0.117	3.01	2.125	97,200	101,800	9,800	10,900	5,500
	0.134	0.126	3.21	2.107	103,800	108,500	10,400	11,600	6,700
	0.145	0.137	3.46	2.085	111,700	116,800	11,400	12,700	8,400
	0.156	0.148	3.70	2.063	119,600	125,100	12,300	13,700	10,200
	0.175	0.167	4.12	2.025	133,000	139,100	13,700	15,200	12,500
	0.188	0.176	4.40	1.999	142,100	148,500	14,600	16,200	14,200
	0.204	0.192	4.73	1.967	153,000	160,000	15,800	17,800	16,400
	0.224	0.212	5.15	1.927	166,500	174,100	17,400	19,300	17,900
	0.250	0.238	5.68	1.875	183,600	191,900	17,500	21,700	20,000
	0.276	0.261	6.19	1.823	200,300	209,300	17,500	23,400	21,400
	0.281	0.266	6.29	1.813	203,300	212,600	17,500	23,700	21,700
	0.300	0.285	6.65	1.775	215,100	224,900	17,500	25,400	23,100
	0.318	0.310	7.15	1.739	220,200	230,900	17,500	26,200	23,900
	0.337	0.329	7.65	1.703	225,300	236,900	17,500	27,000	24,700
2.625	0.109	0.104	2.84	2.157	85,400	89,200	8,600	9,500	3,900
	0.118	0.110	2.85	2.139	92,000	96,200	9,200	10,200	4,700
	0.125	0.117	3.01	2.125	97,200	101,800	9,800	10,900	5,500
	0.134	0.126	3.21	2.107	103,800	108,500	10,400	11,600	6,700
	0.145	0.137	3.46	2.085	111,700	116,800	11,400	12,700	8,400
	0.156	0.148	3.70	2.063	119,600	125,100	12,300	13,700	10,200
	0.175	0.167	4.12	2.025	133,000	139,100	13,700	15,200	12,500
	0.188	0.176	4.40	1.999	142,100	148,500	14,600	16,200	14,200
	0.204	0.192	4.73	1.967	153,000	160,000	15,800	17,800	16,400
	0.224	0.212	5.15	1.927	166,500	174,100	17,400	19,300	17,900
	0.250	0.238	5.68	1.875	183,600	191,900	17,500	21,700	20,000
	0.276	0.261	6.19	1.823	200,300	209,300	17,500	23,400	21,400
	0.281	0.266	6.29	1.813	203,300	212,600	17,500	23,700	21,700
	0.300	0.285	6.65	1.775	215,100	224,900	17,500	25,400	23,100
	0.318	0.310	7.15	1.739	220,200	230,900	17,500	26,200	23,900
	0.337	0.329	7.65	1.703	225,300	236,900	17,500	27,000	24,700
2.875	0.109	0.104	2.84	2.157	85,400	89,200	8,600	9,500	3,900
	0.118	0.110	2.85	2.139	92,000	96,200	9,200	10,200	4,700
	0.125	0.117	3.01	2.125	97,200	101,800	9,800	10,900	5,500
	0.134	0.126	3.21	2.107	103,800	108,500	10,400	11,600	6,700
	0.145	0.137	3.46	2.085	111,700	116,800	11,400	12,700	8,400
	0.156	0.148	3.70	2.063	119,600	125,100	12,300	13,700	10,200
	0.175	0.167	4.12	2.025	133,000	139,100	13,700	15,200	12,500
	0.188	0.176	4.40	1.999	142,100	148,500	14,600	16,200	14,200
	0.204	0.192	4.73	1.967	153,000	160,000	15,800	17,800	16,400
	0.224	0.212	5.15	1.927	166,500	174,100	17,400	19,300	17,900
	0.250	0.238	5.68	1.875	183,600	191,900	17,500	21,700	20,000
	0.276	0.261	6.19	1.823	200,300	209,300	17,500	23,400	21,400
	0.281	0.266	6.29	1.813	203,300	212,600	17,500	23,700	21,700
	0.300	0.285	6.65	1.775	215,100	224,900	17,500	25,400	23,100
	0.318	0.310	7.15	1.739	220,200	230,900	17,500	26,200	23,900
	0.337	0.329	7.65	1.703	225,300	236,900	17,500	27,000	24,700
3.125	0.109	0.104	2.84	2.157	85,400	89,200	8,600	9,500	3,900
	0.118	0.110	2.85	2.139	92,000	96,200	9,200	10,200	4,700
	0.125	0.117	3.01	2.125	97,200	101,800	9,800	10,900	5,500
	0.134	0.126	3.21	2.107	103,800	108,500	10,400	11,600	6,700
	0.145	0.137	3.46	2.085	111,700	116,800	11,400	12,700	8,400
	0.156	0.148	3.70	2.063	119,600	125,100	12,300	13,700	10,200
	0.175	0.167	4.12	2.025	133,000	139,100	13,700	15,200	12,500
	0.188	0.176	4.40	1.999	142,100	148,500	14,600	16,200	14,200
	0.204	0.192	4.73	1.967	153,000	160,000	15,800	17,800	16,400
	0.224	0.212	5.15	1.927	166,500	174,100	17,400	19,300	17,900
	0.250	0.238	5.68	1.875	183,600	191,900	17,500	21,700	20,000
	0.276	0.261	6.19	1.823	200,300	209,300	17,500	23,400	21,400
	0.281	0.266	6.29	1.813	203,300	212,600	17,500	23,700	21,700
	0.300	0.285	6.65	1.775	215,100	224,900	17,500	25,400	23,100
	0.318	0.310	7.15	1.739	220,200	230,900	17,500	26,200	23,900
	0.337	0.329	7.65	1.703	225,300	236,900	17,500	27,000	24,700
3.500	0.109	0.104	2.84	2.157	85,400	89,200	8,600	9,500	3,900
	0.118	0.110	2.85	2.139	92,000	96,200	9,200	10,200	4,700
	0.125	0.117	3.01	2.125	97,200	101,800	9,800	10,900	5,500
	0.134	0.126	3.21	2.107	103,800	108,500	10,400	11,600	6,700
	0.145	0.137	3.46	2.085	111,700	116,800	11,400	12,700	8,400
	0.156	0.148	3.70	2.063	119,600	125,100	12,300	13,700	10,200
	0.175	0.167	4.12	2.025	133,000	139,100	13,700	15,200	12,500
	0.188	0.176	4.40	1.999	142,100	148,500	14,600	16,200	14,200
	0.204	0.192	4.73	1.967	153,000	160,000	15,800	17,800	16,400
	0.224	0.212	5.15	1.927	166,500	174,100	17,400	19,300	17,900
	0.250	0.238	5.68	1.875	183,600	191,900	17,500	21,700	20,000
	0.276	0.261	6.19	1.823	200,300	209,300	17,500	23,400	21,400
	0.281	0.266	6.29	1.813	203,300	212,600	17,500	23,700	21,700
	0.300	0.285	6.65	1.775	215,100	224,900	17,500	25,400	23,100
	0.318	0.310	7.15	1.739	220,200	230,900	17,500	26,200	23,900
	0.337	0.329	7.65	1.703	225,300	236,900	17,500	27,000	24,700

ST130 0.75 in to 2.0 in

外径 OD	壁厚		单位长度重量 wgt	名义内径 ID	管体重量		最小静水压 试验压力	最小内径 内径	静水压
	规定	最小			最小规格重量	最小规格重量			
	t	tmin			lbs/ft	lbs/ft			
in	in	in	lbs/ft	in	lbs	lbs	psig	psig	psig
0.750	0.080	0.075	0.57	0.590	21,900	22,700	17,500	26,300	30,000
	0.083	0.078	0.59	0.584	22,600	23,500	17,500	27,400	31,300
	0.087	0.082	0.62	0.576	23,600	24,500	17,500	28,800	33,100
	0.095	0.090	0.67	0.560	25,400	26,400	17,500	31,200	36,300
	0.102	0.097	0.71	0.546	27,000	28,000	17,500	33,600	39,500
	0.109	0.104	0.75	0.532	28,500	29,600	17,500	36,100	43,000
	0.118	0.110	0.80	0.514	30,500	31,600	17,500	39,200	47,400
	0.075	0.070	0.74	0.650	28,300	29,400	16,600	19,500	20,300
	0.080	0.075	0.79	0.640	30,100	31,200	17,500	19,800	21,600
	0.083	0.078	0.81	0.634	31,100	32,300	17,500	20,900	22,800
1.000	0.087	0.082	0.85	0.626	32,400	33,700	17,500	21,800	24,000
	0.095	0.090	0.92	0.610	35,100	36,500	17,500	23,900	26,300
	0.102	0.097	0.98	0.596	37,400	38,900	17,500	25,200	28,600
	0.109	0.104	1.04	0.579	39,700	41,200	17,500	27,000	30,000
	0.118	0.110	1.11	0.564	42,500	44,100	17,500	28,400	33,900
	0.125	0.117	1.17	0.550	44,700	46,400	17,500	30,700	36,800
	0.124	0.126	1.24	0.732	47,400	49,200	17,500	33,000	38,800
	0.075	0.070	0.94	1.100	36,000	37,400	13,300	14,800	16,000
	0.080	0.075	1.00	1.090	38,200	39,700	14,200	15,800	17,200
	0.087	0.082	1.06	1.080	40,300	42,000	15,100	17,000	18,500
1.250	0.095	0.090	1.17	1.060	44,800	46,500	16,800	18,700	20,600
	0.102	0.097	1.25	1.046	47,800	49,700	17,500	20,200	22,300
	0.109	0.104	1.33	1.032	50,800	52,700	17,500	21,600	24,100
	0.118	0.110	1.43	1.014	54,600	56,700	17,500	23,500	26,400
	0.125	0.117	1.50	1.000	57,400	59,600	17,500	24,900	27,700
	0.134	0.126	1.60	0.982	61,100	63,400	17,500	26,400	30,100
	0.145	0.137	1.71	0.960	65,000	67,400	17,500	28,000	33,000
	0.156	0.148	1.82	0.938	69,700	72,400	17,500	30,800	36,800
	0.167	0.159	1.91	0.916	74,500	77,600	17,500	33,700	41,100
	0.087	0.082	1.31	1.236	50,200	52,100	12,900	14,400	15,600
1.500	0.095	0.090	1.43	1.310	54,500	56,600	14,000	15,600	16,900
	0.102	0.097	1.62	1.296	58,200	60,500	15,100	16,800	18,300
	0.103	0.104	1.62	1.282	61,900	64,300	16,200	18,000	19,600
	0.118	0.110	1.64	1.264	66,600	69,200	17,500	19,600	21,600
	0.125	0.117	1.84	1.250	70,200	73,900	17,500	20,900	22,600
	0.134	0.126	1.94	1.236	74,800	77,600	17,500	22,400	24,600
	0.145	0.137	2.10	1.210	80,200	83,300	17,500	23,900	26,900
	0.156	0.148	2.24	1.188	85,600	89,900	17,500	25,700	29,100
	0.175	0.167	2.48	1.150	94,700	98,300	17,500	28,900	33,300
	0.189	0.180	2.64	1.124	100,700	104,600	17,500	31,200	36,300
1.750	0.204	0.196	2.83	1.092	108,000	112,100	17,500	33,800	39,600
	0.095	0.090	1.68	1.560	64,700	66,700	12,000	13,400	14,400
	0.102	0.097	1.80	1.540	68,700	70,900	13,000	14,600	15,600
	0.109	0.104	1.91	1.532	73,100	75,900	13,900	15,500	16,700
	0.118	0.110	2.06	1.514	78,600	81,700	15,100	16,800	18,300
	0.125	0.117	2.17	1.500	83,000	86,100	16,000	18,000	19,200
	0.134	0.126	2.31	1.482	88,400	91,800	17,000	19,800	20,700
	0.145	0.137	2.49	1.460	95,000	98,700	17,500	20,900	22,700
	0.156	0.148	2.68	1.438	101,600	105,500	17,500	22,000	24,000
	0.175	0.167	2.95	1.400	112,600	116,900	17,500	24,800	28,500
2.000	0.180	0.180	2.98	1.374	119,800	124,500	17,500	26,600	30,800
	0.204	0.196	3.37	1.342	126,800	133,800	17,500	28,800	33,200
	0.224	0.216	3.65	1.302	139,600	146,000	17,500	31,800	37,100
	0.250	0.242	4.01	1.250	153,200	159,000	17,500	35,700	42,400
	0.109	0.104	2.20	1.782	84,200	87,400	12,200	13,400	14,500
	0.118	0.110	2.37	1.764	90,700	94,200	13,200	14,700	15,900
	0.125	0.117	2.51	1.750	95,700	99,400	13,900	15,500	16,800
	0.134	0.126	2.61	1.732	102,100	106,200	14,600	16,400	17,600
	0.145	0.137	2.88	1.710	109,800	114,100	16,100	17,900	19,000
	0.156	0.148	3.08	1.688	117,500	122,000	17,200	19,200	21,200
2.250	0.175	0.167	3.41	1.650	130,400	135,500	17,500	21,700	24,200
	0.188	0.176	3.64	1.624	139,100	144,500	17,500	23,400	26,300
	0.204	0.192	3.92	1.592	149,600	155,400	17,500	25,200	28,600
	0.224	0.212	4.25	1.558	162,500	168,700	17,500	27,800	31,900
	0.238	0.228	4.60	1.518	178,300	185,100	17,500	31,200	36,300
	0.276	0.261	5.09	1.448	194,300	201,800	17,500	34,800	40,900
	0.281	0.266	5.16	1.439	197,300	204,500	17,500	35,000	41,000

ST130 2.375 in to 3.5 in

外径	壁厚	单位长度重量	名义内径	管体重量	最小静水压试验压力	最小内压压力	屈服压力
OD	t	wpm	ID	重量	psi	psi	psi
in	in	lbs/ft	in	lbs			
2.375	0.109	2.64	2.157	100,900	104,800	10,200	11,400
	0.118	2.85	2.139	108,800	113,000	11,100	12,400
	0.125	3.01	2.125	114,800	119,300	11,600	12,900
	0.134	3.26	2.107	122,600	127,400	12,600	13,900
	0.145	3.46	2.085	132,100	137,100	13,600	15,100
	0.156	3.70	2.063	141,400	146,800	14,600	16,200
	0.175	4.12	2.025	157,200	163,300	16,800	18,300
	0.188	4.40	1.989	167,900	174,400	17,800	19,700
	0.204	4.73	1.957	180,900	189,000	17,800	21,200
	0.224	5.15	1.927	196,800	204,300	17,800	23,400
	0.250	5.68	1.876	217,000	225,300	17,800	25,900
	0.276	6.19	1.823	236,600	245,700	17,800	29,100
	0.281	6.29	1.813	240,300	249,600	17,800	29,700
	0.300	6.66	1.775	254,200	264,000	17,800	31,500
	0.318	7.10	1.735	270,800	282,500	10,100	11,200
	0.325	7.17	1.725	275,600	287,300	10,500	11,700
2.625	0.109	2.64	2.389	120,800	125,600	10,100	11,200
	0.118	2.85	2.375	127,600	132,500	10,500	11,700
	0.125	3.01	2.367	136,300	141,800	11,300	12,600
	0.134	3.26	2.345	146,900	152,500	12,300	13,700
	0.145	3.46	2.313	157,300	163,400	13,200	14,700
	0.156	3.70	2.275	175,100	181,800	14,900	16,500
	0.175	4.12	2.243	187,100	194,300	16,000	17,800
	0.188	4.40	2.217	201,700	208,500	17,300	19,200
	0.204	4.73	2.177	219,700	228,100	17,500	21,200
	0.224	5.15	2.125	242,500	251,600	17,500	23,600
	0.250	5.68	2.073	264,800	275,000	17,500	26,300
	0.276	6.19	2.063	289,000	297,300	17,500	28,600
	0.281	6.29	2.025	284,900	295,800	17,500	28,900
	0.300	6.66	2.607	315,500	327,600	17,500	28,900
	0.318	7.10	2.596	331,700	343,900	11,200	12,500
	0.325	7.17	2.593	336,500	348,700	12,000	13,400
2.875	0.109	2.64	2.593	173,200	179,900	13,600	15,100
	0.118	2.85	2.525	193,000	200,400	14,700	16,300
	0.125	3.01	2.499	206,300	214,200	15,800	17,700
	0.134	3.26	2.467	222,500	231,100	16,800	18,900
	0.145	3.46	2.427	242,500	251,800	17,400	19,200
	0.156	3.70	2.375	268,000	278,300	17,500	21,700
	0.175	4.12	2.323	293,000	304,200	17,500	24,100
	0.188	4.40	2.313	297,700	309,100	17,500	24,500
	0.204	4.73	2.275	318,500	327,600	17,500	26,000
	0.224	5.15	2.260	343,900	354,000	17,500	28,000
	0.250	5.68	2.243	368,000	378,300	17,500	30,900
	0.276	6.19	2.217	398,000	408,500	17,500	33,400
	0.281	6.29	2.177	393,000	403,500	17,500	33,400
	0.300	6.66	2.775	438,000	453,000	17,500	35,900
	0.318	7.10	2.764	458,000	473,000	11,700	12,900
	0.325	7.17	2.761	463,000	478,000	12,400	13,600
3.250	0.109	2.64	2.842	253,800	263,500	14,000	15,500
	0.118	2.85	2.802	276,800	287,500	15,400	17,100
	0.125	3.01	2.750	306,300	318,100	17,300	19,200
	0.134	3.26	2.698	335,200	348,100	17,500	21,300
	0.145	3.46	2.688	360,700	373,800	17,500	24,100
	0.156	3.70	2.650	381,400	395,300	17,500	26,900
	0.175	4.12	2.607	411,100	421,200	17,500	29,000
	0.188	4.40	2.596	436,000	446,000	11,200	12,500
	0.204	4.73	2.593	461,000	471,000	12,000	13,400
	0.224	5.15	2.525	490,000	500,400	13,000	14,400
	0.250	5.68	2.499	519,000	529,100	14,000	15,500
	0.276	6.19	2.467	548,000	558,100	15,000	16,500
	0.281	6.29	2.427	553,000	563,100	15,800	17,700
	0.300	6.66	3.052	598,000	608,200	16,000	17,800
	0.318	7.10	3.040	623,000	633,200	17,000	18,900
	0.325	7.17	3.037	628,000	638,200	17,800	19,700
3.500	0.109	2.64	3.052	298,700	311,200	14,000	15,500
	0.118	2.85	3.000	331,800	344,000	15,000	16,500
	0.125	3.01	2.948	363,400	377,600	17,500	19,800
	0.134	3.26	2.938	369,400	383,600	17,500	20,100
	0.145	3.46	2.800	382,100	407,200	17,500	21,400
	0.156	3.70	2.764	407,200	432,300	17,500	23,800
	0.175	4.12	2.719	437,300	457,400	17,500	26,200
	0.188	4.40	2.688	462,400	482,500	17,500	28,600
	0.204	4.73	2.650	487,500	507,600	17,500	31,000
	0.224	5.15	2.607	517,600	532,700	17,500	33,400
	0.250	5.68	2.596	542,700	557,800	17,500	35,800
	0.276	6.19	2.593	567,800	582,900	17,500	38,200
	0.281	6.29	2.555	572,800	587,900	17,500	38,200
	0.300	6.66	3.124	617,900	628,000	17,500	40,600
	0.318	7.10	3.092	643,000	653,100	17,500	43,000
	0.325	7.17	3.089	648,000	658,100	17,500	43,000

ST316L-40 0.75 in to 2.375 in

外径 OD	管壁			名义内径 ID	管体重量		最小静水压 试验压力	最小内压压力		屈服压力
	额定 T	最小 tmin	单位长度重量 wpm		最小重量壁厚 lbs	最小校核壁厚 lbs		管径 psig	壁厚 psig	
in.	in.	in.	lb./ft.	in.	lbs	lbs		psig	psig	
0.750	0.080	0.075	0.59	0.590	6,700	11,800	7,000	7,800	7,200	
	0.083	0.078	0.61	0.584	7,000	12,200	7,400	8,200	7,500	
	0.087	0.082	0.63	0.576	7,200	12,700	7,700	8,600	7,800	
	0.095	0.090	0.68	0.560	7,800	13,700	8,400	9,300	8,500	
	0.102	0.097	0.72	0.546	8,300	14,500	9,100	10,100	9,100	
	0.075	0.070	0.76	0.850	5,700	15,300	5,000	5,800	5,000	
	0.080	0.075	0.81	0.840	9,200	16,200	5,300	5,900	5,900	
	0.083	0.078	0.83	0.834	9,600	16,700	5,600	6,200	5,800	
	0.087	0.082	0.87	0.826	10,000	17,500	5,900	6,500	6,100	
	0.095	0.090	0.90	0.810	10,500	18,300	6,200	6,800	6,400	
1.000	0.102	0.097	1.00	0.798	11,500	20,100	6,900	7,700	7,100	
	0.109	0.104	1.06	0.782	12,200	21,400	7,200	8,000	7,400	
	0.118	0.110	1.14	0.764	13,100	22,900	7,700	8,600	7,800	
	0.125	0.117	1.19	0.750	13,700	24,100	8,200	9,100	8,300	
	0.134	0.126	1.27	0.732	14,600	25,500	8,700	9,700	8,800	
	0.080	0.075	1.02	1.090	11,800	20,600	4,200	4,700	4,400	
	0.087	0.082	1.10	1.076	12,700	22,300	4,700	5,200	4,900	
	0.095	0.090	1.20	1.060	13,800	24,100	5,100	5,700	5,400	
	0.102	0.097	1.28	1.046	14,700	25,800	5,600	6,200	5,800	
	0.109	0.104	1.36	1.032	15,600	27,400	5,800	6,400	6,000	
1.250	0.118	0.110	1.46	1.014	16,800	29,400	6,200	6,900	6,400	
	0.125	0.117	1.53	0.997	17,700	30,900	6,700	7,400	6,900	
	0.134	0.126	1.63	0.982	18,800	32,900	7,100	7,900	7,300	
	0.145	0.137	1.75	0.960	20,100	35,000	7,700	8,600	7,800	
	0.156	0.148	1.86	0.938	21,400	37,000	8,300	9,200	8,400	
	0.087	0.082	1.34	1.326	15,400	27,000	4,000	4,400	3,900	
	0.095	0.090	1.46	1.310	16,800	29,400	4,300	4,800	4,500	
	0.102	0.097	1.56	1.286	17,900	31,400	4,700	5,200	4,900	
	0.109	0.104	1.65	1.282	19,100	33,300	4,900	5,400	5,100	
	0.118	0.110	1.75	1.264	20,500	35,300	5,200	5,800	5,500	
1.500	0.125	0.117	1.87	1.250	21,900	37,300	5,600	6,200	5,800	
	0.134	0.126	1.99	1.232	23,000	40,300	5,900	6,600	6,200	
	0.145	0.137	2.14	1.210	24,700	43,000	6,500	7,200	6,700	
	0.156	0.148	2.28	1.188	26,300	45,700	7,000	7,800	7,300	
	0.175	0.167	2.53	1.150	29,100	51,000	7,700	8,600	7,800	
	0.188	0.180	2.69	1.124	31,000	54,200	8,200	9,100	8,300	
	0.095	0.090	1.71	1.560	19,800	34,600	3,700	4,100	3,500	
	0.102	0.097	1.83	1.546	21,100	37,000	4,100	4,500	4,000	
	0.109	0.104	1.95	1.532	22,500	39,300	4,400	4,800	4,300	
	0.118	0.110	2.10	1.514	24,200	42,300	4,600	5,000	4,700	
1.750	0.125	0.117	2.21	1.500	25,500	44,700	4,800	5,300	5,000	
	0.134	0.126	2.36	1.482	27,200	47,600	5,100	5,700	5,300	
	0.145	0.137	2.53	1.460	29,200	51,200	5,600	6,200	5,800	
	0.156	0.148	2.71	1.438	31,200	54,700	6,000	6,700	6,200	
	0.175	0.167	3.00	1.400	34,600	60,600	6,700	7,400	6,800	
	0.188	0.180	3.20	1.374	36,500	64,600	7,200	7,900	7,300	
	0.204	0.196	3.43	1.342	39,600	69,400	7,700	8,600	7,800	
	0.090	0.084	2.25	1.782	25,900	45,300	3,700	4,100	3,400	
	0.118	0.110	2.42	1.764	27,800	48,800	4,000	4,400	3,900	
	0.125	0.117	2.55	1.750	29,500	51,500	4,200	4,700	4,300	
2.000	0.134	0.126	2.72	1.732	31,400	55,000	4,500	5,000	4,700	
	0.145	0.137	2.93	1.710	33,800	59,200	5,000	5,500	5,100	
	0.156	0.148	3.13	1.688	36,100	63,300	5,300	5,900	5,500	
	0.175	0.167	3.46	1.650	40,100	70,200	5,900	6,500	6,100	
	0.188	0.178	3.71	1.624	42,800	74,900	6,300	7,000	6,500	
	0.204	0.192	3.99	1.592	46,000	80,600	6,800	7,500	7,000	
	0.125	0.117	3.06	2.126	35,300	61,900	3,600	4,000	3,300	
	0.134	0.126	3.27	2.107	37,700	66,900	3,800	4,200	3,700	
	0.145	0.137	3.52	2.085	40,000	71,100	4,100	4,600	4,200	
	0.156	0.148	3.77	2.063	43,500	76,100	4,500	5,000	4,700	
2.375	0.175	0.167	4.19	2.026	48,400	84,700	5,000	5,600	5,200	
	0.188	0.176	4.47	1.999	51,700	90,400	5,300	5,900	5,500	
	0.204	0.192	4.82	1.967	55,700	97,400	5,800	6,400	6,000	

ST2205-80 0.75in to 2.0 in

外径 OD	壁厚		单位长度重量 wgt	名义内径 ID	管体数据		最小壁厚 试验压力	最小内径 压力	静液压
	厚度 t	最小 tmin			最小屈服数据	最小抗拉数据			
in.	in.	in.	lbs/ft	in.	lbs	lbs	psig	psig	psig
0.750	0.080	0.075	0.59	0.590	13,500	16,000	14,000	15,600	14,400
	0.083	0.078	0.61	0.584	13,500	16,500	14,700	16,300	15,000
	0.087	0.082	0.63	0.576	14,500	17,200	15,400	17,100	15,700
	0.095	0.090	0.68	0.560	15,800	18,600	16,700	18,600	17,000
	0.102	0.097	0.72	0.545	16,500	19,700	17,500	19,300	17,500
	0.075	0.070	0.76	0.550	17,400	20,700	18,100	20,100	18,100
	0.080	0.075	0.81	0.540	18,500	22,000	19,600	21,600	19,600
	0.083	0.078	0.83	0.534	19,100	22,700	20,200	22,400	20,200
	0.087	0.082	0.87	0.526	20,000	23,700	21,000	23,000	21,000
	0.095	0.090	0.94	0.510	21,600	25,700	22,800	24,200	22,200
1.000	0.102	0.097	1.00	0.796	23,000	27,300	23,900	25,400	23,200
	0.109	0.104	1.06	0.782	24,400	29,000	25,400	27,000	24,700
	0.118	0.110	1.14	0.764	26,200	31,100	27,400	29,100	26,700
	0.125	0.117	1.19	0.750	27,500	32,600	28,800	30,600	28,200
	0.134	0.126	1.27	0.732	29,200	34,600	30,400	32,400	30,000
	0.075	0.070	0.96	1.100	22,100	26,300	8,100	9,000	6,600
	0.080	0.075	1.02	1.090	23,500	27,900	8,600	9,500	7,400
	0.087	0.082	1.10	1.076	25,400	30,200	9,500	10,500	8,000
	0.095	0.090	1.20	1.060	27,600	32,700	10,300	11,400	9,000
	0.102	0.097	1.28	1.046	29,400	34,900	11,200	12,400	10,000
1.250	0.109	0.104	1.36	1.032	31,300	37,100	11,600	12,900	11,000
	0.118	0.110	1.46	1.014	33,600	39,900	12,400	13,800	11,800
	0.125	0.117	1.53	1.000	35,300	42,000	13,300	14,800	12,700
	0.134	0.126	1.63	0.982	37,600	44,600	14,100	15,700	13,600
	0.145	0.137	1.75	0.960	40,300	47,800	15,400	17,100	15,000
	0.156	0.148	1.89	0.936	42,800	50,900	16,500	18,500	16,000
	0.175	0.167	2.09	0.910	46,100	55,100	17,500	19,400	17,000
	0.087	0.082	1.34	1.326	30,900	36,700	7,900	8,800	6,200
	0.095	0.090	1.46	1.310	33,500	39,800	8,600	9,600	7,500
	0.102	0.097	1.56	1.296	35,800	42,600	9,400	10,400	8,800
1.500	0.109	0.104	1.65	1.282	38,100	45,300	9,700	10,800	9,600
	0.118	0.110	1.78	1.264	41,000	48,700	10,400	11,600	10,400
	0.125	0.117	1.87	1.250	43,200	51,300	11,200	12,400	11,000
	0.134	0.126	1.99	1.232	46,000	54,900	12,000	13,200	11,800
	0.145	0.137	2.14	1.210	49,400	58,600	13,000	14,400	13,000
	0.156	0.148	2.28	1.188	52,700	62,600	14,000	15,600	14,400
	0.175	0.167	2.53	1.150	58,300	69,200	15,400	17,100	15,700
	0.188	0.180	2.69	1.124	62,000	73,800	16,500	18,300	16,700
	0.204	0.196	2.88	1.092	66,400	78,900	17,500	19,300	17,800
	0.095	0.090	1.71	1.650	39,500	46,900	7,400	8,200	5,400
1.750	0.102	0.097	1.83	1.640	42,000	50,200	8,000	8,800	6,000
	0.110	0.104	1.96	1.632	45,000	53,400	8,400	9,300	7,100
	0.118	0.110	2.10	1.614	48,400	57,500	9,000	10,000	8,200
	0.125	0.117	2.21	1.500	51,100	60,600	9,600	10,700	9,300
	0.134	0.126	2.36	1.482	54,400	64,600	10,300	11,400	10,000
	0.145	0.137	2.53	1.460	58,500	69,500	11,200	12,400	11,000
	0.156	0.148	2.71	1.438	62,500	74,200	12,100	13,400	12,000
	0.175	0.167	3.00	1.400	69,300	82,300	13,500	14,800	13,700
	0.188	0.180	3.20	1.374	73,800	87,600	14,500	15,800	14,600
	0.204	0.196	3.43	1.342	79,300	94,100	15,400	17,100	15,700
2.000	0.224	0.216	3.72	1.302	85,800	102,000	16,800	18,700	17,100
	0.250	0.242	4.08	1.250	94,200	111,900	17,500	20,800	18,900
	0.109	0.104	2.26	1.782	51,800	61,500	7,300	8,100	5,300
	0.118	0.110	2.42	1.764	55,800	66,300	7,900	8,800	6,200
	0.125	0.117	2.55	1.750	59,800	69,900	8,500	9,400	7,200
	0.134	0.126	2.72	1.732	63,800	74,500	9,000	10,000	8,100
	0.145	0.137	2.93	1.710	67,800	80,300	9,800	10,900	9,600
	0.156	0.148	3.13	1.688	72,300	85,800	10,600	11,800	10,400
	0.175	0.167	3.48	1.650	80,300	95,300	11,700	13,000	12,100
	0.188	0.180	3.71	1.624	85,600	101,700	12,500	13,900	12,900
2.500	0.204	0.192	3.99	1.592	92,100	109,300	13,600	15,100	13,900
	0.224	0.212	4.33	1.552	100,000	118,700	14,900	16,500	15,200
	0.250	0.238	4.76	1.500	110,500	130,500	16,700	18,500	17,000
	0.276	0.261	5.18	1.448	119,600	142,000	17,500	19,900	18,100
	0.281	0.266		1.438	121,400	144,200	17,500	20,200	18,300
	0.156	0.148	5.68	1.398	131,100	155,700	6,100	6,800	3,400
	0.175	0.167	6.33	1.350	146,200	173,700	6,800	7,500	4,300
	0.188	0.176	6.77	1.314	156,500	186,800	7,300	8,100	5,100
	0.204	0.192	7.31	1.264	169,000	200,700	7,900	8,800	6,200
	0.224	0.212	7.98	1.216	184,400	219,000	8,600	9,600	7,000
3.000	0.250	0.238	8.94	1.150	204,200	242,500	9,800	10,900	9,800
	0.276	0.261	9.68	1.098	223,600	265,600	10,500	11,700	11,000
	0.281	0.266	9.84	1.098	227,300	270,000	10,700	11,900	11,200
	0.300	0.286	10.44	1.044	241,300	286,500	11,500	12,800	11,900

ST2205-80 2.0 in to 3.5 in

外径	壁厚		单位长度重量	名义内径	管体数据		最小静水压 试验压力	最小内屈服 压力	静液压
	规定	最小			最小屈服数据	最小抗拉数据			
OD	in.	mm	lbs/ft	ID	lbs	lbs	psig	psig	psig
in	in	mm	kg/m	in	lbm	kg	MPa	MPa	MPa
2.375	0.109	0.104	2.89	2.157	62,100	73,700	6,200	8,900	3,400
	0.119	0.110	2.90	2.139	66,900	79,500	6,700	7,400	4,100
	0.125	0.117	3.06	2.125	70,700	83,900	7,100	7,900	4,900
	0.134	0.126	3.27	2.107	75,500	89,000	7,600	8,400	5,600
	0.145	0.137	3.52	2.089	81,300	96,500	8,300	9,200	7,000
	0.156	0.148	3.77	2.063	87,000	103,300	9,000	10,000	8,200
	0.175	0.167	4.19	2.026	96,800	114,900	9,900	11,000	9,800
	0.188	0.176	4.47	1.999	103,300	122,700	10,600	11,800	11,000
	0.204	0.192	4.82	1.967	111,300	132,200	11,500	12,800	11,900
	0.224	0.212	5.24	1.927	121,100	143,800	12,700	14,100	13,100
2.625	0.250	0.238	5.78	1.875	133,600	158,600	14,200	15,800	14,600
	0.276	0.261	6.30	1.823	145,600	172,900	15,300	17,000	15,600
	0.281	0.266	6.40	1.813	147,900	175,600	15,500	17,200	15,800
	0.300	0.286	6.77	1.775	156,500	185,800	16,600	18,400	16,800
	0.145	0.137	3.91	2.335	90,400	107,300	7,600	8,400	5,600
	0.156	0.148	4.19	2.313	96,800	115,000	8,100	9,000	6,700
	0.175	0.167	4.67	2.275	107,800	128,000	9,000	10,000	8,200
	0.188	0.176	4.99	2.249	115,100	136,700	9,600	10,700	9,300
	0.204	0.192	5.37	2.217	124,100	147,400	10,400	11,600	10,900
	0.224	0.212	5.85	2.177	135,200	160,500	11,400	12,700	11,900
2.875	0.250	0.238	6.46	2.128	149,200	177,200	12,900	14,300	13,300
	0.276	0.261	7.05	2.073	162,900	193,500	14,000	15,500	14,300
	0.281	0.266	7.16	2.063	165,900	196,600	14,100	15,700	14,500
	0.300	0.286	7.68	2.026	175,300	208,200	15,100	16,800	15,400
	0.134	0.126	4.00	2.607	92,300	109,600	6,300	7,000	3,500
	0.145	0.137	4.31	2.585	99,500	118,100	6,800	7,600	4,600
	0.156	0.148	4.62	2.563	106,600	126,600	7,500	8,300	5,500
	0.175	0.167	5.14	2.525	118,800	141,000	8,200	9,100	6,800
	0.188	0.176	5.50	2.499	127,000	150,800	8,800	9,800	7,900
	0.204	0.192	5.93	2.467	136,900	162,600	9,500	10,600	9,200
3.250	0.224	0.212	6.46	2.427	149,200	177,200	10,500	11,700	11,000
	0.250	0.238	7.14	2.375	164,900	195,900	11,500	13,200	12,300
	0.276	0.261	7.80	2.323	180,300	214,100	12,800	14,200	13,200
	0.281	0.266	7.93	2.313	183,200	217,500	13,000	14,400	13,300
	0.300	0.286	8.40	2.276	194,200	230,600	13,900	15,400	14,200
	0.145	0.137	4.90	2.960	113,200	134,400	8,100	9,800	3,300
	0.156	0.148	5.25	2.938	121,300	144,100	8,600	7,300	4,000
	0.175	0.167	5.85	2.900	135,200	160,800	7,300	8,100	5,200
	0.188	0.176	6.26	2.874	144,700	171,300	7,800	8,700	6,100
	0.204	0.192	6.76	2.842	156,200	185,600	8,500	9,400	7,300
3.500	0.224	0.212	7.37	2.802	170,400	202,300	9,400	10,400	8,800
	0.250	0.238	8.16	2.750	183,500	223,500	10,500	11,700	10,300
	0.276	0.261	8.93	2.698	206,300	245,000	11,300	12,600	11,800
	0.281	0.266	9.07	2.688	209,700	249,000	11,500	12,800	11,900
	0.300	0.286	9.85	2.650	222,400	264,100	12,300	13,700	12,700
	0.156	0.148	5.88	3.188	131,100	156,700	6,100	6,800	3,400
	0.175	0.167	6.33	3.150	146,200	173,700	6,800	7,500	4,300
	0.188	0.176	6.77	3.124	156,500	185,800	7,300	8,100	5,100
	0.204	0.192	7.31	3.052	169,000	200,700	7,900	8,800	6,200
	0.224	0.212	7.98	3.062	184,400	219,000	8,600	9,600	7,600
3.500	0.250	0.238	8.84	3,000	204,200	242,500	9,800	10,900	9,600
	0.276	0.261	9.68	2,948	223,600	265,600	10,500	11,700	11,000
	0.281	0.266	9.84	2,938	227,300	270,000	10,700	11,900	11,200
	0.300	0.286	10.44	2,900	241,300	286,500	11,500	12,800	11,900

ST2507-90 0.75 in to 2.0 in

外径 OD	壁厚		单位长度重量 wpe	名义内径 ID	管体重量		最小静水压 试验压力	最小内阻保 压力	清淤压力
	规格 in.	最小 tmin in.			最小屈服强度 lbs	最小抗拉强度 lbs			
in.	in.	in.	lbs/ft	ID	lbs	lbs	psig	psig	psig
0.750	0.080	0.075	0.69	0.590	15,200	19,500	15,800	17,500	16,100
	0.083	0.078	0.61	0.584	15,700	20,200	16,600	18,400	16,900
	0.087	0.082	0.64	0.576	16,300	21,000	17,300	19,200	17,800
	0.095	0.090	0.69	0.560	17,600	22,700	17,500	21,000	19,100
	0.102	0.097	0.73	0.546	18,700	24,100	17,500	22,600	20,500
	0.070	0.070	0.76	0.560	18,800	25,200	17,300	22,600	21,100
	0.080	0.075	0.81	0.540	20,600	26,800	12,000	13,300	12,300
	0.083	0.078	0.84	0.534	21,500	27,700	12,600	14,000	13,000
	0.087	0.082	0.87	0.526	22,500	28,900	13,100	14,600	13,600
	0.095	0.090	0.95	0.510	24,300	31,300	14,400	16,000	14,800
1.000	0.102	0.097	1.01	0.796	25,900	33,400	15,600	17,300	16,000
	0.109	0.104	1.07	0.782	27,500	35,400	16,200	18,000	16,500
	0.118	0.110	1.14	0.764	29,400	37,900	17,300	19,200	17,800
	0.125	0.117	1.20	0.750	30,900	39,900	17,500	20,500	18,700
	0.134	0.126	1.27	0.732	32,600	42,300	17,500	21,800	19,800
	0.075	0.070	0.97	1.100	24,900	32,100	8,100	10,100	7,100
	0.080	0.075	1.03	1.090	26,500	34,100	9,600	10,700	8,000
	0.087	0.082	1.11	1.076	28,600	36,900	10,800	11,800	9,700
	0.095	0.090	1.21	1.060	31,000	40,000	11,600	12,900	11,500
	0.102	0.097	1.30	1.046	33,700	43,600	12,500	13,900	12,500
1.250	0.109	0.104	1.37	1.032	35,200	45,300	13,100	14,500	13,500
	0.118	0.110	1.47	1.014	37,000	48,700	14,000	15,600	14,400
	0.125	0.117	1.54	1.000	38,800	51,200	14,900	16,600	15,400
	0.134	0.126	1.64	0.982	42,300	54,500	15,900	17,700	16,300
	0.145	0.137	1.76	0.960	45,300	58,400	17,300	19,200	17,600
	0.156	0.148	1.87	0.938	48,300	62,200	17,500	20,800	18,900
	0.176	0.167	2.06	0.900	53,200	68,600	17,500	22,800	20,800
	0.087	0.082	1.35	1.250	34,000	44,600	8,900	10,900	8,000
	0.095	0.090	1.47	1.310	37,700	48,600	9,700	10,800	8,100
	0.102	0.097	1.58	1.296	40,300	52,000	10,500	11,700	9,600
1.500	0.109	0.104	1.66	1.282	42,900	55,300	11,000	12,200	10,400
	0.118	0.110	1.79	1.264	46,100	59,400	11,800	13,100	11,800
	0.125	0.117	1.89	1.250	48,600	62,600	12,600	14,000	13,000
	0.134	0.126	2.01	1.232	51,800	66,700	13,400	14,900	13,800
	0.145	0.137	2.15	1.210	55,900	71,600	14,600	16,200	15,200
	0.156	0.148	2.30	1.188	59,300	76,400	15,900	17,500	16,100
	0.176	0.167	2.54	1.150	65,600	84,500	17,300	19,200	17,600
	0.188	0.180	2.70	1.124	69,700	89,900	17,500	20,500	18,700
	0.204	0.196	2.90	1.092	74,800	96,300	17,500	22,200	20,200
	0.095	0.090	1.72	1.500	44,600	57,300	8,300	10,200	5,700
1.750	0.102	0.097	1.84	1.546	47,500	61,300	9,000	9,000	7,000
	0.109	0.104	1.96	1.532	50,200	65,200	9,400	9,400	7,400
	0.118	0.110	2.11	1.514	54,400	70,200	10,100	11,200	9,900
	0.125	0.117	2.23	1.500	57,400	74,000	10,800	12,000	10,100
	0.134	0.126	2.37	1.482	61,200	78,900	11,500	12,800	11,400
	0.145	0.137	2.55	1.460	65,800	84,800	12,500	13,900	12,400
	0.156	0.148	2.73	1.438	70,300	90,600	13,600	15,100	14,000
	0.176	0.167	3.02	1.400	77,900	100,400	14,900	16,600	15,400
	0.188	0.180	3.22	1.374	83,000	107,000	15,900	17,700	16,300
	0.204	0.196	3.45	1.342	88,200	114,900	17,300	19,200	17,600
2.000	0.224	0.216	3.74	1.302	98,600	124,600	17,500	21,100	19,200
	0.250	0.242	4.11	1.250	106,000	136,700	17,500	23,500	21,300
	0.109	0.104	2.26	1.752	58,300	75,100	8,300	9,200	5,600
	0.118	0.110	2.43	1.754	62,600	80,900	8,900	9,900	6,700
	0.125	0.117	2.57	1.750	66,300	85,400	9,500	10,600	7,800
	0.134	0.126	2.74	1.732	70,700	91,100	10,100	11,300	8,900
	0.145	0.137	2.95	1.710	75,700	97,100	11,100	12,300	9,900
	0.156	0.148	3.15	1.688	81,300	104,800	12,000	13,200	10,800
	0.176	0.167	3.50	1.650	90,300	116,400	13,100	14,600	13,800
	0.188	0.180	3.73	1.624	96,300	124,100	14,000	15,600	14,500
2.250	0.204	0.192	4.01	1.592	103,600	133,500	15,300	17,000	15,700
	0.224	0.212	4.30	1.552	112,500	145,000	16,700	18,800	17,100
	0.250	0.238	4.79	1.500	123,700	159,400	17,500	20,000	19,000
	0.276	0.261	5.21	1.448	134,500	173,400	17,500	22,400	20,300
	0.251	0.235	5.29	1.439	136,600	176,000	17,500	22,700	20,600

ST2507-90 2.375 in to 3.5 in

外径 OD	壁厚		单位长度重量 wpe	名义内径 ID	管体重量		最小静水压 试验压力	最小内阻保 压力	清淤压力
	规格 in.	最小 tmin in.			最小屈服强度 lbs	最小抗拉强度 lbs			
2.375	0.109	0.104	2.71	2.157	69,800	90,000	6,900	7,700	3,600
	0.118	0.110	2.92	2.139	75,300	97,100	7,500	8,300	4,300
	0.125	0.117	3.08	2.125	79,500	102,500	8,000	8,900	5,200
	0.134	0.126	3.29	2.107	84,900	109,400	8,600	9,500	6,100
	0.145	0.137	3.54	2.085	91,400	117,800	9,400	10,400	7,500
	0.156	0.148	3.79	2.063	97,900	126,200	10,100	11,200	8,900
	0.175	0.167	4.22	2.025	108,900	140,300	11,200	12,400	10,700
	0.188	0.176	4.50	1.999	116,300	149,800	12,000	13,300	12,100
	0.204	0.192	4.86	1.967	126,200	161,400	13,000	14,400	13,400
	0.224	0.212	5.28	1.927	136,200	175,600	14,200	15,800	14,700
2.625	0.250	0.238	5.82	1.875	150,200	193,600	16,000	17,800	16,300
	0.276	0.261	6.34	1.823	163,800	211,100	17,200	19,100	17,500
	0.281	0.266	6.44	1.813	166,400	214,400	17,600	19,400	17,800
	0.300	0.285	6.81	1.776	176,000	226,900	17,800	20,700	18,900
	0.145	0.137	3.94	2.336	101,700	131,000	8,600	9,400	5,900
	0.156	0.148	4.22	2.313	108,900	140,400	9,200	10,200	7,200
	0.175	0.167	4.69	2.275	121,200	166,200	10,100	11,200	8,900
	0.188	0.176	5.02	2.249	129,500	167,000	10,800	12,000	10,100
	0.204	0.192	5.41	2.217	139,600	183,000	11,800	13,100	11,800
	0.224	0.212	5.89	2.177	152,100	196,000	12,900	14,300	13,400
2.875	0.250	0.238	6.50	2.125	167,900	216,400	14,500	16,100	14,900
	0.276	0.261	7.10	2.073	183,300	236,300	15,700	17,400	16,000
	0.281	0.266	7.21	2.063	186,200	240,000	15,800	17,600	16,200
	0.300	0.285	7.63	2.025	197,200	254,200	17,000	18,900	17,300
	0.134	0.126	4.02	2.607	103,800	133,900	7,100	7,900	3,800
	0.145	0.137	4.33	2.585	111,900	144,300	7,700	8,600	4,700
	0.156	0.148	4.64	2.563	119,300	154,600	8,400	9,300	5,800
	0.175	0.167	5.17	2.525	132,600	172,200	9,300	10,300	7,400
	0.188	0.176	5.53	2.499	142,800	184,100	9,900	11,000	8,500
	0.204	0.192	5.97	2.467	154,100	198,600	10,800	12,000	10,000
3.125	0.224	0.212	6.50	2.427	167,900	216,400	11,800	13,100	11,800
	0.250	0.238	7.18	2.375	185,600	239,200	13,300	14,800	13,800
	0.276	0.261	7.86	2.323	202,800	261,400	14,400	16,000	14,800
	0.281	0.266	7.98	2.313	206,100	265,600	14,600	16,200	15,000
	0.300	0.285	8.45	2.275	218,400	281,500	15,600	17,300	16,000
	0.145	0.137	4.93	2.960	127,300	164,100	6,800	7,600	3,500
	0.156	0.148	5.28	2.938	136,500	175,900	7,500	8,300	4,600
	0.175	0.167	5.89	2.900	152,200	196,100	8,200	9,100	5,500
	0.188	0.176	6.30	2.874	162,800	209,800	8,700	9,700	6,500
	0.204	0.192	6.80	2.842	175,700	226,400	9,500	10,600	7,900
3.375	0.224	0.212	7.42	2.802	191,700	247,000	10,400	11,600	9,500
	0.250	0.238	8.21	2.750	212,100	273,300	11,800	13,100	11,900
	0.276	0.261	8.98	2.698	232,100	299,100	12,800	14,200	13,200
	0.281	0.266	9.13	2.688	235,900	304,000	13,000	14,400	13,400
	0.300	0.285	9.69	2.650	250,200	322,500	13,900	15,400	14,300
	0.156	0.148	5.71	3.186	147,500	190,100	6,900	7,700	3,800
	0.175	0.167	6.37	3.150	164,500	212,000	7,700	8,500	4,500
	0.188	0.176	6.82	3.124	176,100	226,900	8,200	9,100	5,400
	0.204	0.192	7.36	3.092	190,100	245,000	9,900	9,900	6,700
	0.224	0.212	8.03	3.052	207,500	267,400	10,800	10,800	8,300
3.500	0.250	0.238	8.89	3.000	229,700	296,100	11,000	12,200	10,500
	0.276	0.261	9.74	2.948	251,600	324,300	11,900	13,200	12,000
	0.281	0.266	9.90	2.938	255,800	329,600	12,100	13,400	12,300
	0.300	0.285	10.51	2.900	271,400	349,800	13,000	14,400	13,400

ST13Cr-80 1.25 in to 2.375 in

外径 OD	壁厚		单位长度重量 wpe	名义内径 ID	管体载荷		最小静水压力 试验压力	最小内层压力	挤板压力
	规定	最小			最小屈服载荷	最小抗拉载荷			
	t in.	in.	lbs/ft	in.	lbs	lbs	psig	psig	psig
1.250	0.080	0.076	0.99	1.080	23,500	25,900	8,600	9,500	7,400
	0.087	0.083	1.07	1.076	25,400	28,000	9,500	10,500	8,900
	0.095	0.090	1.16	1.060	27,600	30,300	10,300	11,400	10,700
	0.102	0.097	1.23	1.046	29,400	32,400	11,200	12,400	11,600
	0.109	0.104	1.31	1.032	31,300	34,400	11,600	12,900	12,000
	0.118	0.113	1.41	1.014	33,600	36,900	12,400	13,800	12,800
	0.125	0.118	1.48	1.000	35,300	38,900	13,300	14,800	13,700
	0.134	0.127	1.57	0.982	37,600	41,300	14,100	15,700	14,500
	0.145	0.138	1.69	0.960	40,300	44,300	15,400	17,100	15,700
	0.156	0.148	1.80	0.938	42,900	47,200	16,700	18,500	16,800
1.500	0.087	0.083	1.29	1.326	30,900	34,000	7,900	8,800	6,200
	0.095	0.090	1.41	1.310	33,500	36,900	8,600	9,600	7,500
	0.102	0.097	1.50	1.296	35,800	39,400	9,400	10,400	8,800
	0.109	0.104	1.60	1.282	38,100	41,900	9,700	10,800	9,500
	0.118	0.113	1.72	1.264	41,000	45,100	10,400	11,600	10,900
	0.125	0.118	1.81	1.250	43,200	47,500	11,200	12,400	11,600
	0.134	0.127	1.92	1.232	46,000	50,600	11,900	13,200	12,300
	0.145	0.138	2.07	1.210	49,400	54,300	13,000	14,400	13,400
	0.156	0.148	2.20	1.188	52,700	58,000	14,000	15,600	14,400
	0.175	0.167	2.44	1.150	58,300	64,100	15,400	17,100	15,700
1.750	0.188	0.180	2.59	1.124	62,000	68,200	16,500	18,300	16,700
	0.095	0.090	1.65	1.560	39,500	43,500	7,400	8,200	5,400
	0.102	0.097	1.77	1.546	42,200	46,500	8,000	8,900	6,500
	0.109	0.104	1.88	1.532	45,000	49,500	8,400	9,300	7,100
	0.118	0.113	2.02	1.514	48,400	53,200	9,000	10,000	8,200
	0.125	0.118	2.14	1.500	51,100	56,200	9,600	10,700	8,300
	0.134	0.127	2.28	1.482	54,400	59,900	10,300	11,400	10,700
	0.145	0.138	2.45	1.460	58,500	64,300	11,200	12,400	11,600
	0.156	0.148	2.61	1.438	62,500	68,700	12,100	13,400	12,500
	0.175	0.167	2.90	1.400	69,300	76,200	13,300	14,800	13,700
2.000	0.188	0.180	3.09	1.374	73,800	81,200	14,200	15,800	14,600
	0.204	0.194	3.31	1.342	79,300	87,200	15,400	17,100	15,700
	0.109	0.104	2.17	1.782	51,800	57,000	7,300	8,100	5,300
	0.118	0.113	2.33	1.764	55,800	61,400	7,900	8,900	6,200
	0.125	0.118	2.46	1.750	58,900	64,800	8,500	9,400	7,200
	0.134	0.127	2.63	1.732	62,800	69,100	9,000	10,000	8,200
	0.145	0.138	2.83	1.710	67,600	74,400	9,800	10,900	8,600
	0.156	0.148	3.02	1.688	72,300	79,500	10,600	11,800	11,100
	0.175	0.167	3.35	1.650	80,300	88,300	11,700	13,000	12,100
	0.193	0.180	3.58	1.624	85,800	94,200	12,500	13,900	12,900
2.375	0.204	0.194	3.85	1.592	92,100	101,300	13,600	15,100	13,900
	0.125	0.118	2.96	2.125	70,700	77,800	7,100	7,900	4,900
	0.134	0.127	3.15	2.107	75,500	83,000	7,600	8,400	5,800
	0.145	0.138	3.40	2.085	81,300	89,400	8,300	9,200	7,000
	0.156	0.148	3.64	2.063	87,000	95,700	9,000	10,000	8,200
	0.175	0.167	4.04	2.025	96,800	106,400	9,900	11,000	9,800
	0.188	0.180	4.32	1.999	103,300	113,700	10,600	11,800	11,000
	0.204	0.194	4.66	1.967	111,300	122,400	11,800	12,800	11,900

毛细管技术参数表

材质	ST316L-40	ST2205-80	ST2205-90	ST2507-90	ST825-40	ST825-40	STMonel400-40
Cmax	0.030	0.030	0.030	0.030	0.05	0.10	0.3
Mnmax	2.00	2.00	2.00	1.20	1	0.50	2.0
Pmax	0.045	0.030	0.030	0.035	0.015	0.015	0.015
Smax	0.030	0.020	0.020	0.020	0.03	0.015	0.024
Si max	0.75	1.00	1.00	0.80	0.5	0.5	0.5
Cr	16.0-18.0	22.0-23.0	22.0-23.0	24.0-26.0	19.5-23.5	20.0-23.0	
Ni min	10.0-14.0	4.5-6.5	4.5-6.5	6.0-8.0	38.0-46.0	58.0	63.0
Mo	2.00-3.00	3.0-3.5	3.0-3.5	3.0-5.0	2.5-3.5	8.0-10.0	
Cu							28.0-34.0
Femax							2.6
屈服强度 (min), psig	40,000	80,000	90,000	90,000	40,000	40,000	40,000
抗拉强度 (min), psig	70,000	95,000	95,000	116,000	85,000	100,000	70,000
硬度, HRC	200HV	30	30	32	/	/	/

ST316L-40 0.125 in to 0.625 in

外径 OD	壁厚		单位长度重量 Wwe	名义内径 ID	管体载荷		最小静水压 试验压力	最小内屈服 压力	抗拉强度
	规定 t	最小 tmin			最小屈服载荷	最小抗拉载荷			
in.	in.	in.	lbs/ft	in.	lbs	lbs	psig	psig	psig
0.125	0.028	0.025	0.03	0.069	300	600	14,500	16,100	12,800
	0.035	0.032	0.04	0.055	400	700	17,500	20,200	15,100
	0.035	0.032	0.09	0.180	900	1,700	9,100	10,100	8,800
0.250	0.049	0.044	0.11	0.152	1,200	2,200	12,700	14,100	11,700
	0.065	0.059	0.14	0.120	1,600	2,600	16,800	18,700	14,300
0.375	0.035	0.032	0.13	0.305	1,500	2,600	6,000	6,700	6,200
	0.049	0.044	0.18	0.277	2,000	3,500	8,500	9,400	8,300
	0.065	0.059	0.22	0.245	2,500	4,400	11,200	12,500	10,500
	0.080	0.072	0.26	0.215	3,000	5,200	13,800	15,400	12,000
0.500	0.049	0.044	0.25	0.402	2,800	4,900	8,400	7,100	6,500
	0.065	0.059	0.31	0.370	3,600	6,200	8,400	9,400	8,300
	0.080	0.072	0.37	0.340	4,200	7,400	10,400	11,600	9,900
0.625	0.049	0.044	0.31	0.527	3,500	6,200	5,100	5,800	5,300
	0.065	0.059	0.40	0.495	4,600	8,000	6,700	7,500	6,800

ST2205-80 0.25 in to 0.625 in

外径 OD	壁厚		单位长度重量 Wwe	名义内径 ID	管体载荷		最小静水压 试验压力	最小内屈服 压力	抗拉强度
	规定 t	最小 tmin			最小屈服载荷	最小抗拉载荷			
in.	in.	in.	lbs/ft	in.	lbs	lbs	psig	psig	psig
0.250	0.035	0.032	0.08	0.180	1,900	2,200	17,500	20,200	17,600
	0.049	0.044	0.11	0.152	2,500	2,900	17,500	26,200	23,300
	0.065	0.059	0.13	0.120	3,000	3,600	17,500	37,400	28,700
0.375	0.035	0.032	0.13	0.305	3,000	3,600	12,100	13,400	12,300
	0.049	0.044	0.17	0.277	4,000	4,800	16,900	18,800	16,700
	0.065	0.059	0.22	0.245	5,100	6,000	17,500	25,000	21,100
	0.080	0.072	0.26	0.215	5,900	7,000	17,500	30,700	24,800
0.500	0.049	0.044	0.24	0.402	5,600	6,600	12,700	14,100	12,900
	0.065	0.059	0.31	0.370	7,100	8,400	16,800	18,700	16,500
	0.080	0.072	0.36	0.340	8,400	10,000	17,500	23,000	19,700
	0.049	0.044	0.30	0.527	7,100	8,400	10,200	11,300	10,100
0.625	0.065	0.059	0.39	0.495	9,100	10,900	13,500	15,000	13,600

ST2205-90 0.25 in to 0.625 in

外径 OD	壁厚		单位长度重量 Wwe	名义内径 ID	管体载荷		最小静水压 试验压力	最小内屈服 压力	抗拉强度
	规定 t	最小 tmin			最小屈服载荷	最小抗拉载荷			
in.	in.	in.	lbs/ft	in.	lbs	lbs	psig	psig	psig
0.250	0.035	0.032	0.08	0.180	2,100	2,200	17,500	22,700	19,800
	0.049	0.044	0.11	0.152	2,800	2,900	17,500	31,800	26,200
	0.065	0.059	0.13	0.120	3,400	3,600	17,500	42,100	32,200
0.375	0.035	0.032	0.13	0.305	3,400	3,600	13,600	15,100	13,800
	0.049	0.044	0.17	0.277	4,500	4,800	17,500	21,200	18,700
	0.065	0.059	0.22	0.245	5,700	6,000	17,500	28,100	23,700
	0.080	0.072	0.26	0.215	6,700	7,000	17,500	34,600	27,900
0.500	0.049	0.044	0.24	0.402	6,200	6,600	14,300	15,900	14,500
	0.065	0.059	0.31	0.370	8,000	8,400	17,500	21,100	18,600
	0.080	0.072	0.36	0.340	9,500	10,000	17,500	25,900	22,100
0.625	0.049	0.044	0.30	0.527	8,000	8,400	11,400	12,700	11,100
	0.065	0.059	0.39	0.495	10,300	10,900	15,200	16,800	15,200

ST2507-90 0.25 in to 0.625 in

外径 OD	壁厚		单位长度重量 Wwe	名义内径 ID	管体载荷		最小静水压 试验压力	最小内屈服 压力	抗拉强度
	规定 t	最小 tmin			最小屈服载荷	最小抗拉载荷			
in.	in.	in.	lbs/ft	in.	lbs	lbs	psig	psig	psig
0.250	0.035	0.032	0.09	0.180	2,100	2,700	17,500	22,700	19,800
	0.049	0.044	0.11	0.152	2,800	3,600	17,500	31,800	26,200
	0.065	0.059	0.14	0.120	3,400	4,400	17,500	42,100	32,200
0.375	0.035	0.032	0.14	0.305	3,400	4,300	13,600	15,100	13,800
	0.049	0.044	0.18	0.277	4,500	5,800	17,500	21,200	18,700
	0.065	0.059	0.23	0.245	5,700	7,300	17,500	28,100	23,700
	0.080	0.072	0.26	0.215	6,700	8,600	17,500	34,600	27,900
0.500	0.049	0.044	0.25	0.402	6,200	8,100	14,300	15,900	14,500
	0.065	0.059	0.31	0.370	8,000	10,300	17,500	21,100	18,600
	0.080	0.072	0.37	0.340	9,500	12,200	17,500	25,900	22,100
	0.049	0.044	0.31	0.527	8,000	10,300	11,400	12,700	11,100
0.625	0.065	0.059	0.40	0.495	10,300	13,300	15,200	16,800	15,200

ST825-40 0.125 in to 0.625 in

外径	壁厚		单位长度质量	名义内径	管体载荷		最小静水压 试验压力	最小内屈服 压力	抗拉强度
	规定	最小			最小屈服载荷	最小抗拉载荷			
	t	tmin	Wpe	ID	lbs	lbs	psig	psig	psig
OD	in.	in.	lbs/ft	in.					
0.125	0.028	0.025	0.04	0.069	300	700	14,500	16,100	12,800
	0.035	0.032	0.04	0.065	400	800	17,500	20,200	15,100
0.250	0.035	0.032	0.09	0.180	900	2,000	9,100	10,100	8,800
	0.049	0.044	0.11	0.152	1,200	2,600	12,700	14,100	11,700
	0.065	0.059	0.14	0.120	1,500	3,200	16,800	18,700	14,300
0.375	0.035	0.032	0.14	0.305	1,500	3,200	6,000	6,700	6,200
	0.049	0.044	0.18	0.277	2,000	4,300	8,500	9,400	8,300
	0.065	0.059	0.23	0.245	2,500	5,400	11,200	12,500	10,500
	0.080	0.072	0.27	0.215	3,000	6,300	13,800	15,400	12,400
0.500	0.049	0.044	0.25	0.402	2,800	5,900	6,400	7,100	6,500
	0.065	0.059	0.32	0.370	3,600	7,600	8,400	9,400	8,300
	0.080	0.072	0.38	0.340	4,200	9,000	10,400	11,500	9,900
0.625	0.049	0.044	0.32	0.527	3,500	7,500	5,100	5,600	5,300
	0.065	0.059	0.41	0.495	4,600	9,700	6,700	7,500	6,800

STMone1400-40 0.125 in to 0.625 in

外径	壁厚		单位长度质量	名义内径	管体载荷		最小静水压 试验压力	最小内屈服 压力	抗拉强度
	规定	最小			最小屈服载荷	最小抗拉载荷			
	t	tmin	Wpe	ID	lbs	lbs	psig	psig	psig
OD	in.	in.	lbs/ft	in.					
0.125	0.028	0.025	0.04	0.069	300	800	14,500	16,100	12,800
	0.035	0.032	0.04	0.065	400	700	17,500	20,200	15,100
0.250	0.035	0.032	0.10	0.180	900	1,700	9,100	10,100	8,800
	0.049	0.044	0.12	0.152	1,200	2,200	12,700	14,100	11,700
	0.065	0.059	0.15	0.120	1,500	2,600	16,800	18,700	14,300
0.375	0.035	0.032	0.15	0.305	1,500	2,600	6,000	6,700	6,200
	0.049	0.044	0.20	0.277	2,000	3,500	8,500	9,400	8,300
	0.065	0.059	0.25	0.245	2,500	4,400	11,200	12,500	10,500
	0.080	0.072	0.29	0.215	3,000	5,200	13,800	15,400	12,400
0.500	0.049	0.044	0.27	0.402	2,800	4,900	6,400	7,100	6,500
	0.065	0.059	0.34	0.370	3,600	6,200	8,400	9,400	8,300
	0.080	0.072	0.41	0.340	4,200	7,400	10,400	11,500	9,900
0.625	0.049	0.044	0.34	0.527	3,500	6,200	5,100	5,600	5,300
	0.065	0.059	0.44	0.495	4,600	8,000	6,700	7,500	6,800

ST625-40 0.125 in to 0.625 in

外径	壁厚		单位长度质量	名义内径	管体载荷		最小静水压 试验压力	最小内屈服 压力	抗拉强度
	规定	最小			最小屈服载荷	最小抗拉载荷			
	t	tmin	Wpe	ID	lbs	lbs	psig	psig	psig
OD	in.	in.	lbs/ft	in.					
0.125	0.028	0.025	0.04	0.069	300	900	14,500	16,100	12,800
	0.035	0.032	0.04	0.065	400	1,000	17,500	20,200	15,100
0.250	0.035	0.032	0.09	0.180	900	2,400	9,100	10,100	8,800
	0.049	0.044	0.12	0.152	1,200	3,100	12,700	14,100	11,700
	0.065	0.059	0.14	0.120	1,500	3,800	16,800	18,700	14,300
0.375	0.035	0.032	0.14	0.305	1,500	3,700	6,000	6,700	6,200
	0.049	0.044	0.19	0.277	2,000	5,000	8,500	9,400	8,300
	0.065	0.059	0.24	0.245	2,500	6,300	11,200	12,500	10,500
	0.080	0.072	0.28	0.215	3,000	7,400	13,800	15,400	12,400
0.500	0.049	0.044	0.26	0.402	2,800	6,900	6,400	7,100	6,500
	0.065	0.059	0.33	0.370	3,600	8,900	8,400	9,400	8,300
	0.080	0.072	0.39	0.340	4,200	10,600	10,400	11,500	9,900
0.625	0.049	0.044	0.33	0.527	3,500	8,900	5,100	5,600	5,300
	0.065	0.059	0.42	0.495	4,600	11,400	6,700	7,500	6,800



封装管缆技术参数表

TEC技术参数表

管的选型 (316L, 0.125 in-0.625 in)

外径 (英寸)	壁厚 (英寸)	屈服强度 (psi)	抗拉强度 (psi)	挤塑强度 (psi)	最小弯曲半径 (英尺)
0.125	0.028	90 000	100 000	29000	0.75
	0.035			33000	0.75
0.25	0.035			19000	1.25
	0.049			26200	1.25
	0.065			32300	1.25
0.375	0.035			13800	2.25
	0.049			19700	2.25
	0.065			23700	2.25
0.5	0.035			10800	3
	0.049			14500	3
	0.065			18000	3
0.625	0.06			22200	3
	0.049			11800	3.75
	0.065			15300	3.75

✓ 挤塑强度计算值是根据最小屈服强度90000psi得来的。

✓ 管由大尺寸的钢管焊接而成，并经过拉拔热处理最终得到成品。

✓ 通过激光打印技术，可根据您的需求在管子上打印各种数据信息包括产品序列号、购买订单号、产品型号规格等。

Incoloy825, 0.125 in-0.625 in

外径 (英寸)	壁厚 (英寸)	屈服强度 (psi)	抗拉强度 (psi)	挤塑强度 (psi)	最小弯曲半径 (英尺)
0.125	0.028	95 000	110 000	30600	0.75
	0.035			35800	0.75
0.25	0.035			20900	1.25
	0.049			27600	1.25
	0.065			34100	1.25
0.375	0.035			14600	2.25
	0.049			19700	2.25
	0.065			25000	2.25
0.5	0.035			11200	3
	0.049			15300	3
	0.065			19600	3
0.625	0.06			23400	3
	0.049			12500	3.75
	0.065			16100	3.75

✓ 挤塑强度计算值是根据最小屈服强度95000psi得来的。

✓ 管由大尺寸的钢管焊接而成，并经过拉拔热处理最终得到成品。

✓ 通过激光打印技术，可根据您的需求在管子上打印各种数据信息包括产品序列号、购买订单号、产品型号规格等。

电缆的选型

填充	PP	PP	FEP	PFA
绝值	FEP	ETFE	FEP	PFA
最大使用温度℃	150	150	200	280

导体尺寸AWG	外径 min (英寸)		最大电阻值 (Ω/km)
	实心	7股绞合	
12AWG	2.06		5.31
14AWG	1.62		8.45
16AWG	1.29		13.5
18AWG	1.02	7/0.39	23
20AWG	0.81	7/0.32	34.8
22AWG	0.64		54.3

电气性能	
绝缘电阻	≥2000MΩ·km
耐压绝缘测试	直流电压3KV, 5分钟不击穿

铜导体有多种配置选择

✓ 尺寸: 12、14、16、18、20、22AWG等;

✓ 样式: 实心或绞合导体;

✓ 材质: 裸铜、镀锡、镀银等铜导体。

封装、绝缘、填充材料选型

材料缩写	名称	品牌名	适用温度℃
ETFE	Ethylene Tetrafluoroethylene (聚氟乙烯)		-60℃~150℃
FEP	Fluorinated Ethylene Propylene (全氟聚乙丙烯)		-110℃~200℃
HDPE	High Density Polyethylene (高密度聚乙烯)		-80℃~80℃
PFA	Perfluoroalkoxy (全氟烷氧基)		-80℃~260℃
PP	Modified Polypropylene (改性聚丙烯)		-30℃~150℃
PVDF	Polyvinylidene Fluoride (聚偏二氟乙烯)		-30℃~150℃
TPV	Thermoplastic Vulcanizating (热塑性硫化橡胶)		-30℃~150℃
PA11	Nylon11 (尼龙11)		-30℃~150℃

Flat Pack技术参数表

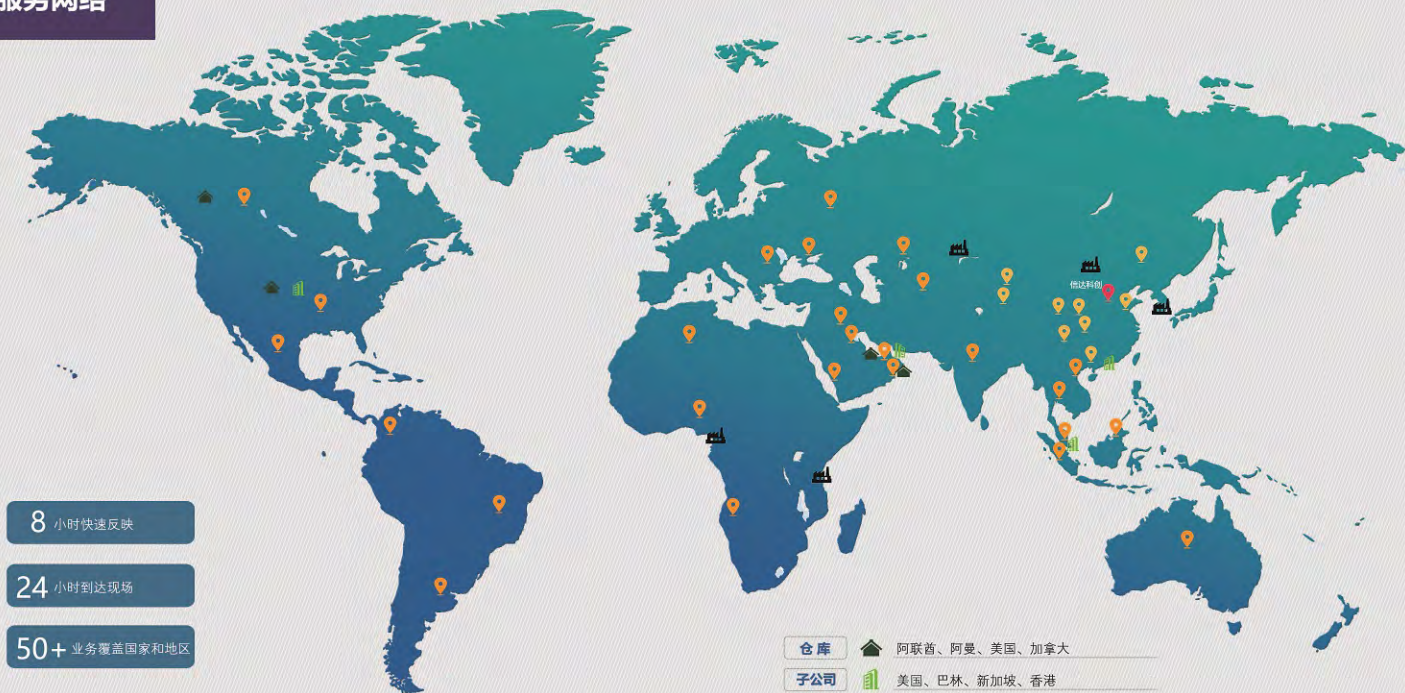
✓ 信达利创可以根据客户要求自由组合毛细管、TEC等进行Flat Pack产品的设计、生产。

✓ 管的选型参照毛细管的技术参数表，TEC的选型参照TEC的技术参数表；封装的选型参照TEC技术参数表中的封装材料。

04

全球营销和服务网络

信达科创拥有完善的全球营销和服务网络，业务范围涵盖全球六大洲的五十多个国家和地区。



8 小时快速反映

24 小时到达现场

50+ 业务覆盖国家和地区

仓库

阿联酋、阿曼、美国、加拿大

子公司

美国、巴林、新加坡、香港

生产工厂

中国、坦桑尼亚、喀麦隆、哈萨克、韩国