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中华人民共和国国家标准

GB/T 21835—2008

焊接钢管尺寸及单位长度重量

Dimensions and masses per unit length of welded steel pipes

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中华人民共和国国家质量监督检验检疫总局
中国国家标准化管理委员会　发布

前　言

本标准对应于 ISO 4200:1991《平端焊接及无缝钢管——尺寸及单位长度重量表》(英文版)和 ISO 1127:1992《不锈钢管——尺寸、公差和单位长度常规重量》(英文版)。本标准与 ISO 4200:1991 和 ISO 1127:1992 的一致性程度为非等效。

本标准由中国钢铁工业协会提出。

本标准由全国钢标准化技术委员会归口。

本标准主要起草单位:番禺珠江钢管有限公司、锦西钢管有限公司。

本标准主要起草人:陈昌、刘庆才、齐惠娟、王利树、黄克坚。

焊接钢管尺寸及单位长度重量

1 范围

本标准规定了焊接钢管的公称尺寸及单位长度重量。

本标准适用于制定各类用途的圆形平端焊接钢管标准时，选择公称尺寸和单位长度重量。

2 规范性引用标准

下列文件中的条款通过本标准的引用而成为本标准的条款。凡是注日期的引用文件，其随后所有的修改单(不包括勘误的内容)或修订版均不适用于本标准，然而，鼓励根据本标准达成协议的各方研究是否可使用这些文件的最新版本。凡是不注日期的引用文件，其最新版本适用于本标准。

GB/T 8170 数值修约规则

GB/T 20878—2007 不锈钢和耐热钢 牌号及化学成分

3 分类

本标准给出的焊接钢管分为普通焊接钢管、精密焊接钢管和不锈钢焊接钢管。

4 公称尺寸

4.1 尺寸系列

4.1.1 焊接钢管的外径分为三个系列：系列1、系列2和系列3。系列1是通用系列，属推荐选用系列；系列2是非通用系列；系列3是少数特殊、专用系列。

普通焊接钢管的外径分为系列1、系列2和系列3，精密焊接钢管的外径分为系列2和系列3，不锈钢焊接钢管的外径分为系列1、系列2和系列3。

4.1.2 普通焊接钢管的壁厚分为系列1和系列2。系列1是优先选用系列，系列2是非优先选用系列。

4.2 外径和壁厚

4.2.1 普通焊接钢管的外径和壁厚见表1。

4.2.2 精密焊接钢管的外径和壁厚见表2。

4.2.3 不锈钢焊接钢管的外径和壁厚见表3。

5 单位长度理论重量

5.1 普通焊接钢管和精密焊接钢管

普通焊接钢管和精密焊接钢管单位长度理论重量按式(1)计算(钢的密度取7.85 kg/dm^3)，其计算值分别列于表1和表2。

$$W = 0.024\,661\,5(D - S)S \qquad \cdots\cdots(1)$$

式中：

W——单位长度重量，单位为千克每米(kg/m)；

D——钢管的公称外径，单位为毫米(mm)；

S——钢管的公称壁厚，单位为毫米(mm)。

单位长度理论重量计算值的修约规则应符合GB/T 8170的规定。当计算值小于1.00 kg/m时，单位长度理论重量计算结果修约到最接近的0.001 kg/m；当计算值不小于1.00 kg/m时，单位长度理论

重量计算结果修约到最接近的 0.01 kg/m。

5.2 不锈钢焊接钢管

不锈钢焊接钢管单位长度理论重量按式(2)计算。

$$W = \frac{\pi}{1\ 000} S(D - S)\rho \quad \cdots\cdots (2)$$

式中：

W——钢管的理论重量，单位为千克每米(kg/m)；

π——圆周率，取 3.141 6；

S——钢管的公称壁厚，单位为毫米(mm)；

D——钢管的公称外径，单位为毫米(mm)；

ρ——钢的密度，单位为千克每立方分米(kg/dm^3)，各牌号钢的密度按 GB/T 20878 中的给定值。

表 1 普通焊接钢管尺寸及单位长度理论重量

系列			壁厚/mm																		
系列 1			0.5	0.6	0.8	1.0	1.2	1.4		1.6		1.8		2.0		2.3		2.6		2.9	
系列 2									1.5		1.7		1.9		2.2		2.4		2.8		3.1
外径/mm			单位长度理论重量/(kg/m)																		
系列 1	系列 2	系列 3																			
10.2			0.120	0.142	0.185	0.227	0.266	0.304	0.322	0.339	0.356	0.373	0.389	0.404	0.434	0.448	0.462	0.487	0.511	0.522	
	12		0.142	0.169	0.221	0.271	0.320	0.366	0.388	0.410	0.432	0.453	0.473	0.493	0.532	0.550	0.568	0.603	0.635	0.651	0.680
	12.7		0.150	0.179	0.235	0.289	0.340	0.390	0.414	0.438	0.461	0.484	0.506	0.528	0.570	0.590	0.610	0.648	0.684	0.701	0.734
13.5			0.160	0.191	0.251	0.308	0.364	0.418	0.444	0.470	0.495	0.519	0.544	0.567	0.613	0.635	0.657	0.699	0.739	0.758	0.795
		14	0.166	0.198	0.260	0.321	0.379	0.435	0.462	0.489	0.516	0.542	0.567	0.592	0.640	0.664	0.687	0.731	0.773	0.794	0.833
	16		0.191	0.228	0.300	0.370	0.438	0.504	0.536	0.568	0.600	0.630	0.661	0.691	0.749	0.777	0.805	0.859	0.911	0.937	0.986
17.2			0.206	0.246	0.324	0.400	0.474	0.546	0.581	0.616	0.650	0.684	0.717	0.750	0.814	0.845	0.876	0.936	0.994	1.02	1.08
		18	0.216	0.257	0.339	0.419	0.497	0.573	0.610	0.647	0.683	0.719	0.754	0.789	0.857	0.891	0.923	0.987	1.05	1.08	1.14
	19		0.228	0.272	0.359	0.444	0.527	0.608	0.647	0.687	0.725	0.764	0.801	0.838	0.911	0.947	0.983	1.05	1.12	1.15	1.22
	20		0.240	0.287	0.379	0.469	0.556	0.642	0.684	0.726	0.767	0.808	0.848	0.888	0.966	1.00	1.04	1.12	1.19	1.22	1.29
21.3			0.256	0.306	0.404	0.501	0.595	0.687	0.732	0.777	0.822	0.866	0.909	0.952	1.04	1.08	1.12	1.20	1.28	1.32	1.39
		22	0.265	0.317	0.418	0.518	0.616	0.711	0.758	0.805	0.851	0.897	0.942	0.986	1.07	1.12	1.16	1.24	1.33	1.37	1.44
	25		0.302	0.361	0.477	0.592	0.704	0.815	0.869	0.923	0.977	1.03	1.082	1.13	1.24	1.29	1.34	1.44	1.53	1.58	1.67
		25.4	0.307	0.367	0.485	0.602	0.716	0.829	0.884	0.939	0.994	1.05	1.10	1.15	1.26	1.31	1.36	1.46	1.56	1.61	1.70
26.9			0.326	0.389	0.515	0.639	0.761	0.880	0.940	0.998	1.06	1.11	1.17	1.23	1.34	1.40	1.45	1.56	1.66	1.72	1.82
		30	0.364	0.435	0.576	0.715	0.852	0.987	1.05	1.12	1.19	1.25	1.32	1.38	1.51	1.57	1.63	1.76	1.88	1.94	2.06
	31.8		0.386	0.462	0.612	0.760	0.906	1.05	1.12	1.19	1.26	1.33	1.40	1.47	1.61	1.67	1.74	1.87	2.00	2.07	2.19
	32		0.388	0.465	0.616	0.765	0.911	1.06	1.13	1.20	1.27	1.34	1.41	1.48	1.62	1.68	1.75	1.89	2.02	2.08	2.21
33.7			0.409	0.490	0.649	0.806	0.962	1.12	1.19	1.27	1.34	1.42	1.49	1.56	1.71	1.78	1.85	1.99	2.13	2.20	2.34
		35	0.425	0.509	0.675	0.838	1.00	1.16	1.24	1.32	1.40	1.47	1.55	1.63	1.78	1.85	1.93	2.08	2.22	2.30	2.44
	38		0.462	0.553	0.734	0.912	1.09	1.26	1.35	1.44	1.52	1.61	1.69	1.78	1.94	2.02	2.11	2.27	2.43	2.51	2.67
	40		0.487	0.583	0.773	0.962	1.15	1.33	1.42	1.52	1.61	1.70	1.79	1.87	2.05	2.14	2.23	2.40	2.57	2.65	2.82

表 1（续）

系列			壁厚/mm																	
系列 1			3.2		3.6		4.0		4.5		5.0		5.4		5.6		6.3		7.1	
系列 2				3.4		3.8		4.37		4.78		5.16		5.56		6.02		6.35		7.92
外径/mm			单位长度理论重量/(kg/m)																	
系列 1	系列 2	系列 3																		
10.2																				
	12																			
	12.7																			
13.5																				
		14																		
	16		1.01	1.06	1.10	1.14														
17.2			1.10	1.16	1.21	1.26														
		18	1.17	1.22	1.28	1.33														
	19		1.25	1.31	1.37	1.42														
	20		1.33	1.39	1.46	1.52	1.58	1.68												
21.3			1.43	1.50	1.57	1.64	1.71	1.82	1.86	1.95										
		22	1.48	1.56	1.63	1.71	1.78	1.90	1.94	2.03										
	25		1.72	1.81	1.90	1.99	2.07	2.22	2.28	2.38	2.47									
		25.4	1.75	1.84	1.94	2.02	2.11	2.27	2.32	2.43	2.52									
26.9			1.87	1.97	2.07	2.16	2.26	2.43	2.49	2.61	2.70	2.77								
		30	2.11	2.23	2.34	2.46	2.56	2.76	2.83	2.97	3.08	3.16								
	31.8		2.26	2.38	2.50	2.62	2.74	2.96	3.03	3.19	3.30	3.39								
	32		2.27	2.40	2.52	2.64	2.76	2.98	3.05	3.21	3.33	3.42								
33.7			2.41	2.54	2.67	2.80	2.93	3.16	3.24	3.41	3.54	3.63								
		35	2.51	2.65	2.79	2.92	3.06	3.30	3.38	3.56	3.70	3.80								
	38		2.75	2.90	3.05	3.21	3.35	3.62	3.72	3.92	4.07	4.18								
	40		2.90	3.07	3.23	3.39	3.55	3.84	3.94	4.15	4.32	4.43								

表 1（续）

系列			壁厚/mm																	
系列 1			8.0		8.8		10		11		12.5		14.2		16		17.5		20	
系列 2				8.74		9.53		10.31		11.91		12.7		15.09		16.66		19.05		20.62
外径/mm			单位长度理论重量/(kg/m)																	
系列 1	系列 2	系列 3																		
10.2																				
	12																			
	12.7																			
13.5																				
		14																		
	16																			
17.2																				
		18																		
	19																			
	20																			
21.3																				
		22																		
	25																			
		25.4																		
26.9																				
		30																		
	31.8																			
	32																			
33.7																				
		35																		
	38																			
	40																			

表 1（续）

系列			壁厚/mm																	
系列 1			22.2		25		28		30		32		36		40	45	50	55	60	65
系列 2				23.83		26.19		28.58		30.96		34.93		38.10						
外径/mm			单位长度理论重量/(kg/m)																	
系列 1	系列 2	系列 3																		
10.2																				
	12																			
	12.7																			
13.5																				
		14																		
	16																			
17.2																				
		18																		
	19																			
	20																			
21.3																				
		22																		
	25																			
		25.4																		
26.9																				
		30																		
	31.8																			
	32																			
33.7																				
		35																		
	38																			
	40																			

表 1（续）

系列			壁厚/mm																		
系列 1			0.5	0.6	0.8	1.0	1.2	1.4		1.6		1.8		2.0		2.3		2.6		2.9	
系列 2									1.5		1.7		1.9		2.2		2.4		2.8		3.1
外径/mm			单位长度理论重量/(kg/m)																		
系列 1	系列 2	系列 3																			
42.4			0.517	0.619	0.821	1.02	1.22	1.42	1.51	1.61	1.71	1.80	1.90	1.99	2.18	2.27	2.37	2.55	2.73	2.82	3.00
		44.5	0.543	0.650	0.862	1.07	1.28	1.49	1.59	1.69	1.79	1.90	2.00	2.10	2.29	2.39	2.49	2.69	2.88	2.98	3.17
48.3				0.706	0.937	1.17	1.39	1.62	1.73	1.84	1.95	2.06	2.17	2.28	2.50	2.61	2.72	2.93	3.14	3.25	3.46
	51			0.746	0.990	1.23	1.47	1.71	1.83	1.95	2.07	2.18	2.30	2.42	2.65	2.76	2.88	3.10	3.33	3.44	3.66
		54		0.79	1.05	1.31	1.56	1.82	1.94	2.07	2.19	2.32	2.44	2.56	2.81	2.93	3.05	3.30	3.54	3.65	3.89
	57			0.835	1.11	1.38	1.65	1.92	2.05	2.19	2.32	2.45	2.58	2.71	2.97	3.10	3.23	3.49	3.74	3.87	4.12
60.3				0.883	1.17	1.46	1.75	2.03	2.18	2.32	2.46	2.60	2.74	2.88	3.15	3.29	3.43	3.70	3.97	4.11	4.37
	63.5			0.931	1.24	1.54	1.84	2.14	2.29	2.44	2.59	2.74	2.89	3.03	3.33	3.47	3.62	3.90	4.19	4.33	4.62
	70				1.37	1.70	2.04	2.37	2.53	2.70	2.86	3.03	3.19	3.35	3.68	3.84	4.00	4.32	4.64	4.80	5.11
		73			1.42	1.78	2.12	2.47	2.64	2.82	2.99	3.16	3.33	3.50	3.84	4.01	4.18	4.51	4.85	5.01	5.34
76.1					1.49	1.85	2.22	2.58	2.76	2.94	3.12	3.30	3.48	3.65	4.01	4.19	4.36	4.71	5.06	5.24	5.58
		82.5			1.61	2.01	2.41	2.80	3.00	3.19	3.39	3.58	3.78	3.97	4.36	4.55	4.74	5.12	5.50	5.69	6.07
88.9					1.74	2.17	2.60	3.02	3.23	3.44	3.66	3.87	4.08	4.29	4.70	4.91	5.12	5.53	5.95	6.15	6.56
	101.6						2.97	3.46	3.70	3.95	4.19	4.43	4.67	4.91	5.39	5.63	5.87	6.35	6.82	7.06	7.53
		108					3.16	3.68	3.94	4.20	4.46	4.71	4.97	5.23	5.74	6.00	6.25	6.76	7.26	7.52	8.02
114.3							3.35	3.90	4.17	4.45	4.72	4.99	5.27	5.54	6.08	6.35	6.62	7.16	7.70	7.97	8.50
	127									4.95	5.25	5.56	5.86	6.17	6.77	7.07	7.37	7.98	8.58	8.88	9.47
	133									5.18	5.50	5.82	6.14	6.46	7.10	7.41	7.73	8.36	8.99	9.30	9.93
139.7										5.45	5.79	6.12	6.46	6.79	7.46	7.79	8.13	8.79	9.45	9.78	10.44
		141.3								5.51	5.85	6.19	6.53	6.87	7.55	7.88	8.22	8.89	9.56	9.90	10.57
		152.4								5.95	6.32	6.69	7.05	7.42	8.15	8.51	8.88	9.61	10.33	10.69	11.41
		159								6.21	6.59	6.98	7.36	7.74	8.51	8.89	9.27	10.03	10.79	11.16	11.92

表 1（续）

系列			壁厚/mm																	
系列 1			3.2		3.6		4.0		4.5		5.0		5.4		5.6		6.3		7.1	
系列 2				3.4		3.8		4.37		4.78		5.16		5.56		6.02		6.35		7.92
外径/mm			单位长度理论重量/(kg/m)																	
系列 1	系列 2	系列 3																		
42.4			3.09	3.27	3.44	3.62	3.79	4.10	4.21	4.43	4.61	4.74	4.93	5.05	5.08	5.40				
		44.5	3.26	3.45	3.63	3.81	4.00	4.32	4.44	4.68	4.87	5.01	5.21	5.34	5.37	5.71				
48.3			3.56	3.76	3.97	4.17	4.37	4.73	4.86	5.13	5.34	5.49	5.71	5.86	5.90	6.28				
	51		3.77	3.99	4.21	4.42	4.64	5.03	5.16	5.45	5.67	5.83	6.07	6.23	6.27	6.68				
		54	4.01	4.24	4.47	4.70	4.93	5.35	5.49	5.80	6.04	6.22	6.47	6.64	6.68	7.12				
	57		4.25	4.49	4.74	4.99	5.23	5.67	5.83	6.16	6.41	6.60	6.87	7.05	7.10	7.57				
60.3			4.51	4.77	5.03	5.29	5.55	6.03	6.19	6.54	6.82	7.02	7.31	7.51	7.55	8.06				
	63.5		4.76	5.04	5.32	5.59	5.87	6.37	6.55	6.92	7.21	7.42	7.74	7.94	8.00	8.53				
	70		5.27	5.58	5.90	6.20	6.51	7.07	7.27	7.69	8.01	8.25	8.60	8.84	8.89	9.50	9.90	9.97		
		73	5.51	5.84	6.16	6.48	6.81	7.40	7.60	8.04	8.38	8.63	9.00	9.25	9.31	9.94	10.36	10.44		
76.1			5.75	6.10	6.44	6.78	7.11	7.73	7.95	8.41	8.77	9.03	9.42	9.67	9.74	10.40	10.84	10.92		
		82.5	6.26	6.63	7.00	7.38	7.74	8.42	8.66	9.16	9.56	9.84	10.27	10.55	10.62	11.35	11.84	11.93		
88.9			6.76	7.17	7.57	7.98	8.38	9.11	9.37	9.92	10.35	10.66	11.12	11.43	11.50	12.30	12.83	12.93		
	101.6		7.77	8.23	8.70	9.17	9.63	10.48	10.78	11.41	11.91	12.27	12.81	13.17	13.26	14.19	14.81	14.92		
		108	8.27	8.77	9.27	9.76	10.26	11.17	11.49	12.17	12.70	13.09	13.66	14.05	14.14	15.14	15.80	15.92		
114.3			8.77	9.30	9.83	10.36	10.88	11.85	12.19	12.91	13.48	13.89	14.50	14.91	15.01	16.08	16.78	16.91	18.77	20.78
	127		9.77	10.36	10.96	11.55	12.13	13.22	13.59	14.41	15.04	15.50	16.19	16.65	16.77	17.96	18.75	18.89	20.99	23.26
	133		10.24	10.87	11.49	12.11	12.73	13.86	14.26	15.11	15.78	16.27	16.99	17.47	17.59	18.85	19.69	19.83	22.04	24.43
139.7			10.77	11.43	12.08	12.74	13.39	14.58	15.00	15.90	16.61	17.12	17.89	18.39	18.52	19.85	20.73	20.88	23.22	25.74
		141.3	10.90	11.56	12.23	12.89	13.54	14.76	15.18	16.09	16.81	17.32	18.10	18.61	18.74	20.08	20.97	21.13	23.50	26.05
		152.4	11.77	12.49	13.21	13.93	14.64	15.95	16.41	17.40	18.18	18.74	19.58	20.13	20.27	21.73	22.70	22.87	25.44	28.22
		159	12.30	13.05	13.80	14.54	15.29	16.66	17.15	18.18	18.99	19.58	20.46	21.04	21.19	22.71	23.72	23.91	26.60	29.51

表 1（续）

系列			壁厚/mm																	
系列 1			8.0		8.8		10		11		12.5		14.2		16		17.5		20	
系列 2				8.74		9.53		10.31		11.91		12.7		15.09		16.66		19.05		20.62
外径/mm			单位长度理论重量/(kg/m)																	
系列 1	系列 2	系列 3																		
42.4																				
		44.5																		
48.3																				
	51																			
		54																		
	57																			
60.3																				
	63.5																			
	70																			
		73																		
76.1																				
		82.5																		
88.9																				
	101.6																			
		108																		
114.3			20.97																	
	127		23.48																	
	133		24.66																	
139.7			25.98																	
		141.3	26.30																	
		152.4	28.49																	
		159	29.79	32.39																

表 1（续）

系列			壁厚/mm																	
系列 1			22.2		25		28		30		32		36		40	45	50	55	60	65
系列 2				23.83		26.19		28.58		30.96		34.93		38.10						
外径/mm			单位长度理论重量/(kg/m)																	
系列 1	系列 2	系列 3																		
42.4																				
		44.5																		
48.3																				
	51																			
		54																		
	57																			
60.3																				
	63.5																			
	70																			
		73																		
76.1																				
		82.5																		
88.9																				
	101.6																			
		108																		
114.3																				
	127																			
	133																			
139.7																				
		141.3																		
		152.4																		
		159																		

表 1（续）

系列			壁厚/mm																		
系列 1			0.5	0.6	0.8	1.0	1.2	1.4		1.6		1.8		2.0		2.3		2.6		2.9	
系列 2									1.5		1.7		1.9		2.2		2.4		2.8		3.1
外径/mm			单位长度理论重量/(kg/m)																		
系列 1	系列 2	系列 3																			
		165								6.45	6.85	7.24	7.64	8.04	8.83	9.23	9.62	10.41	11.20	11.59	12.38
168.3										6.58	6.98	7.39	7.80	8.20	9.01	9.42	9.82	10.62	11.43	11.83	12.63
		177.8										7.81	8.24	8.67	9.53	9.95	10.38	11.23	12.08	12.51	13.36
		190.7										8.39	8.85	9.31	10.23	10.69	11.15	12.06	12.97	13.43	14.34
		193.7										8.52	8.99	9.46	10.39	10.86	11.32	12.25	13.18	13.65	14.57
219.1												9.65	10.18	10.71	11.77	12.30	12.83	13.88	14.94	15.46	16.51
		244.5												11.96	13.15	13.73	14.33	15.51	16.69	17.28	18.46
273.1														13.37	14.70	15.36	16.02	17.34	18.66	19.32	20.64
323.9																		20.60	22.17	22.96	24.53
355.6																		22.63	24.36	25.22	26.95
406.4																		25.89	27.87	28.86	30.83
457																					
508																					
		559																			
610																					
		660																			
711																					
	762																				
813																					
		864																			
914																					
		965																			

表 1（续）

系列			壁厚/mm																	
系列 1			3.2		3.6		4.0		4.5		5.0		5.4		5.6		6.3		7.1	
系列 2				3.4		3.8		4.37		4.78		5.16		5.56		6.02		6.35		7.92
外径/mm			单位长度理论重量/(kg/m)																	
系列 1	系列 2	系列 3																		
		165	12.77	13.55	14.33	15.11	15.88	17.31	17.81	18.89	19.73	20.34	21.25	21.86	22.01	23.60	24.66	24.84	27.65	30.68
168.3			13.03	13.83	14.62	15.42	16.21	17.67	18.18	19.28	20.14	20.76	21.69	22.31	22.47	24.09	25.17	25.36	28.23	31.33
		177.8	13.78	14.62	15.47	16.31	17.14	18.69	19.23	20.40	21.31	21.97	22.96	23.62	23.78	25.50	26.65	26.85	29.88	33.18
		190.7	14.80	15.70	16.61	17.52	18.42	20.08	20.66	21.92	22.90	23.61	24.68	25.39	25.56	27.42	28.65	28.87	32.15	35.70
		193.7	15.03	15.96	16.88	17.80	18.71	20.40	21.00	22.27	23.27	23.99	25.08	25.80	25.98	27.86	29.12	29.34	32.67	36.29
219.1			17.04	18.09	19.13	20.18	21.22	23.14	23.82	25.26	26.40	27.22	28.46	29.28	29.49	31.63	33.06	33.32	37.12	41.25
		244.5	19.04	20.22	21.39	22.56	23.72	25.88	26.63	28.26	29.53	30.46	31.84	32.76	32.99	35.41	37.01	37.29	41.57	46.21
273.1			21.30	22.61	23.93	25.24	26.55	28.96	29.81	31.63	33.06	34.10	35.65	36.68	36.94	39.65	41.45	41.77	46.58	51.79
323.9			25.31	26.87	28.44	30.00	31.56	34.44	35.45	37.62	39.32	40.56	42.42	43.65	43.96	47.19	49.34	49.73	55.47	61.72
355.6			27.81	29.53	31.25	32.97	34.68	37.85	38.96	41.36	43.23	44.59	46.64	48.00	48.34	51.90	54.27	54.69	61.02	67.91
406.4			31.82	33.79	35.76	37.73	39.70	43.33	44.60	47.34	49.50	51.06	53.40	54.96	55.35	59.44	62.16	62.65	69.92	77.83
457			35.81	38.03	40.25	42.47	44.69	48.78	50.23	53.31	55.73	57.50	60.14	61.90	62.34	66.95	70.02	70.57	78.78	87.71
508			39.84	42.31	44.78	47.25	49.72	54.28	55.88	59.32	62.02	63.99	66.93	68.89	69.38	74.53	77.95	78.56	87.71	97.68
		559	43.86	46.59	49.31	52.03	54.75	59.77	61.54	65.33	68.31	70.48	73.72	75.89	76.43	82.10	85.87	86.55	96.64	107.64
610			47.89	50.86	53.84	56.81	59.78	65.27	67.20	71.34	74.60	76.97	80.52	82.88	83.47	89.67	93.80	94.53	105.57	117.60
		660					64.71	70.66	72.75	77.24	80.77	83.33	87.17	89.74	90.38	97.09	101.56	102.36	114.32	127.36
711							69.74	76.15	78.41	83.25	87.06	89.82	93.97	96.73	97.42	104.66	109.49	110.35	123.25	137.32
	762						74.77	81.65	84.06	89.26	93.34	96.31	100.76	103.72	104.46	112.23	117.41	118.34	132.18	147.29
813							79.80	87.15	89.72	95.27	99.63	102.80	107.55	110.71	111.51	119.81	125.33	126.32	141.11	157.25
		864					84.84	92.64	95.38	101.29	105.92	109.29	114.34	117.71	118.55	127.38	133.26	134.31	150.04	167.21
914							89.76	98.03	100.93	107.18	112.09	115.65	121.00	124.56	125.45	134.80	141.03	142.14	158.80	176.97
		965					94.80	103.53	106.59	113.19	118.38	122.14	127.79	131.56	132.50	142.37	148.95	150.13	167.73	186.94

表 1（续）

系列			壁厚/mm																	
系列 1			8.0		8.8		10		11		12.5		14.2		16		17.5		20	
系列 2				8.74		9.53		10.31		11.91		12.70		15.09		16.66		19.05		20.62
外径/mm			单位长度理论重量/(kg/m)																	
系列 1	系列 2	系列 3																		
		165	30.97	33.68																
168.3			31.63	34.39	34.61	37.31	39.04	40.17	42.67	45.93	48.03	48.73								
		177.8	33.50	36.44	36.68	39.55	41.38	42.59	45.25	48.72	50.96	51.71								
		190.7	36.05	39.22	39.48	42.58	44.56	45.87	48.75	52.51	54.93	55.75								
		193.7	36.64	39.87	40.13	43.28	45.30	46.63	49.56	53.40	55.86	56.69								
219.1			41.65	45.34	45.64	49.25	51.57	53.09	56.45	60.86	63.69	64.64	71.75							
		244.5	46.66	50.82	51.15	55.22	57.83	59.55	63.34	68.32	71.52	72.60	80.65							
273.1			52.30	56.98	57.36	61.95	64.88	66.82	71.10	76.72	80.33	81.56	90.67							
323.9			62.34	67.93	68.38	73.88	77.41	79.73	84.88	91.64	95.99	97.47	108.45	114.92	121.49	126.23	132.23			
355.6			68.58	74.76	75.26	81.33	85.23	87.79	93.48	100.95	105.77	107.40	119.56	126.72	134.00	139.26	145.92			
406.4			78.60	85.71	86.29	93.27	97.76	100.71	107.26	115.87	121.43	123.31	137.35	145.62	154.05	160.13	167.84	181.98	190.58	196.18
457			88.58	96.62	97.27	105.17	110.24	113.58	120.99	130.73	137.03	139.16	155.07	164.45	174.01	180.92	189.68	205.75	215.54	221.91
508			98.65	107.61	108.34	117.15	122.81	126.54	134.82	145.71	152.75	155.13	172.93	183.43	194.14	201.87	211.69	229.71	240.70	247.84
		559	108.71	118.60	119.41	129.14	135.39	139.51	148.66	160.69	168.47	171.10	190.79	202.41	214.26	222.83	233.70	253.67	265.85	273.78
610			118.77	129.60	130.47	141.12	147.97	152.48	162.49	175.67	184.19	187.07	208.65	221.39	234.38	243.78	255.71	277.63	291.01	299.71
		660	128.63	140.37	141.32	152.88	160.30	165.19	176.06	190.36	199.60	202.74	226.15	240.00	254.11	264.32	277.29	301.12	315.67	325.14
711			138.70	151.37	152.39	164.86	172.88	178.16	189.89	205.34	215.33	218.71	244.01	258.98	274.24	285.28	299.30	325.08	340.82	351.07
	762		148.76	162.36	163.46	176.85	185.45	191.12	203.73	220.32	231.05	234.68	261.87	277.96	294.36	306.23	321.31	349.04	365.98	377.01
813			158.82	173.35	174.53	188.83	198.03	204.09	217.56	235.29	246.77	250.65	279.73	296.94	314.48	327.18	343.32	373.00	391.13	402.94
		864	168.88	184.34	185.60	200.82	210.61	217.06	231.40	250.27	262.49	266.63	297.59	315.92	334.61	348.14	365.33	396.96	416.29	428.88
914			178.75	195.12	196.45	212.57	222.94	229.77	244.96	264.96	277.90	282.29	315.10	334.52	354.34	368.68	386.91	420.45	440.95	454.30
		965	188.81	206.11	207.52	224.56	235.52	242.74	258.80	279.94	293.63	298.26	332.96	353.50	374.46	389.64	408.92	444.41	466.10	480.24

表 1（续）

系列			壁厚/mm																	
系列 1			22.2		25		28		30		32		36		40	45	50	55	60	65
系列 2				23.83		26.19		28.58		30.96		34.93		38.1						
外径/mm			单位长度理论重量/(kg/m)																	
系列 1	系列 2	系列 3																		
		165																		
168.3																				
		177.8																		
		190.7																		
		193.7																		
219.1																				
		244.5																		
273.1																				
323.9																				
355.6																				
406.4			210.34	224.83	235.15	245.57	261.29	266.30	278.48											
457			238.05	254.57	266.34	278.25	296.23	301.96	315.91											
508			265.97	283.54	297.79	311.19	331.45	337.91	353.65	364.23	375.64	407.51	419.05	441.52	461.66	513.82	564.75	614.44	662.90	710.12
		559	293.89	314.51	329.23	344.13	366.67	373.85	391.37	403.17	415.89	451.45	464.33	489.44	511.97	570.42	627.64	683.62	738.37	791.88
610			321.81	344.48	360.67	377.07	401.88	409.80	429.11	442.11	456.14	495.38	509.61	537.36	562.28	627.02	690.52	752.79	813.83	873.63
		660	349.19	373.87	391.50	409.37	436.41	445.04	466.10	480.28	495.60	538.45	554.00	584.34	611.61	682.51	752.18	820.61	887.81	953.78
711			377.11	403.84	422.94	442.31	471.63	480.99	503.83	519.22	535.85	582.38	599.27	632.26	661.91	739.11	815.06	889.79	963.28	1 035.54
	762		405.03	433.81	454.39	475.25	506.84	516.93	541.57	558.16	576.09	626.32	644.55	680.18	712.22	795.70	877.95	958.96	1 038.74	1 117.29
813			432.95	463.78	485.83	508.19	542.06	552.88	579.30	597.10	616.34	670.25	689.83	728.10	762.53	852.30	940.84	1 028.14	1 114.21	1 199.04
		864	460.87	493.75	517.27	541.13	577.28	588.83	617.03	636.04	656.59	714.18	735.11	776.02	812.84	908.90	1 003.72	1 097.31	1 189.67	1 280.22
914			488.25	523.14	548.10	573.42	611.80	624.07	654.02	674.22	696.05	757.25	779.50	823.00	862.17	964.39	1 065.38	1 165.13	1 263.66	1 360.94
		965	516.17	553.11	579.55	606.36	647.02	660.01	691.76	713.16	736.29	801.19	824.78	870.92	912.48	1 020.99	1 128.26	1 234.31	1 339.12	1 442.70

表 1（续）

系列			壁厚/mm																		
系列 1			0.5	0.6	0.8	1.0	1.2	1.4		1.6		1.8		2.0		2.3		2.6		2.9	
系列 2									1.5		1.7		1.9		2.2		2.4		2.8		3.1
外径/mm			单位长度理论重量/(kg/m)																		
系列 1	系列 2	系列 3																			
1 016																					
1 067																					
1 118																					
	1 168																				
1 219																					
	1 321																				
1 422																					
	1 524																				
1 626																					
	1 727																				
1 829																					
	1 930																				
2 032																					
	2 134																				
2 235																					
	2 337																				
	2 438																				
2 540																					

表 1（续）

系列			壁厚/mm																	
系列 1			3.2		3.6		4.0		4.5		5.0		5.4		5.6		6.3		7.1	
系列 2				3.4		3.8		4.37		4.78		5.16		5.56		6.02		6.35		7.92
外径/mm			单位长度理论重量/(kg/m)																	
系列 1	系列 2	系列 3																		
1 016							99.83	109.02	112.25	119.20	124.66	128.63	134.58	138.55	139.54	149.94	156.87	158.11	176.66	196.90
1 067											130.95	135.12	141.38	145.54	146.58	157.52	164.80	166.10	185.58	206.86
1 118											137.24	141.61	148.17	152.54	153.63	165.09	172.72	174.08	194.51	216.82
	1 168										143.41	147.98	154.83	159.39	160.53	172.51	180.49	181.91	203.27	226.59
1 219											149.70	154.47	161.62	166.38	167.58	180.08	188.41	189.90	212.20	236.55
	1 321														181.66	195.22	204.26	205.87	230.06	256.47
1 422															195.61	210.22	219.95	221.69	247.74	276.20
	1 524																235.80	237.66	265.60	296.12
1 626																	251.65	253.64	283.46	316.04
	1 727																		301.15	335.77
1 829																			319.01	355.69
	1 930																			
2 032																				
	2 134																			
2 235																				
	2 337																			
	2 438																			
2 540																				

表 1（续）

系列			壁厚/mm																	
系列 1			8.0		8.8		10		11		12.5		14.2		16		17.5		20	
系列 2				8.74		9.53		10.31		11.91		12.70		15.09		16.66		19.05		20.62
外径/mm			单位长度理论重量/(kg/m)																	
系列 1	系列 2	系列 3																		
1 016			198.87	217.11	218.58	236.54	248.09	255.71	272.63	294.92	309.35	314.23	350.82	372.48	394.58	410.59	430.93	468.37	491.26	506.17
1 067			208.93	228.10	229.65	248.53	260.67	268.67	286.47	309.90	325.07	330.21	368.68	391.46	414.71	431.54	452.94	492.33	516.41	532.11
1 118			218.99	239.09	240.72	260.52	273.25	281.64	300.30	324.88	340.79	346.18	386.54	410.44	434.83	452.50	474.95	516.29	541.57	558.04
	1 168		228.86	249.87	251.57	272.27	285.58	294.35	313.87	339.56	356.20	361.84	404.05	429.05	454.56	473.04	496.53	539.78	566.23	583.47
1 219			238.92	260.86	262.64	284.25	298.16	307.32	327.70	354.54	371.93	377.81	421.91	448.03	474.68	493.99	518.54	563.74	591.38	609.40
	1 321		259.04	282.85	284.78	308.23	323.31	333.26	355.37	384.50	403.37	409.76	457.63	485.98	514.93	535.90	562.56	611.66	641.69	661.27
1 422			278.97	304.62	306.69	331.96	348.22	358.94	382.77	414.17	434.50	441.39	493.00	523.57	554.79	577.40	606.15	659.11	691.51	712.63
	1 524		299.09	326.60	328.83	355.94	373.38	384.87	410.44	444.13	465.95	473.34	528.72	561.53	595.03	619.31	650.17	707.03	741.82	764.50
1 626			319.22	348.59	350.97	379.91	398.53	410.81	438.11	474.09	497.39	505.29	564.44	599.49	635.28	661.21	694.19	754.95		
	1 727		339.14	370.36	372.89	403.65	423.44	436.49	465.51	503.75	528.53	536.92	599.81	637.07	675.13	702.71	737.78	802.40		
1 829			359.27	392.34	395.02	427.62	448.59	462.42	493.18	533.71	559.97	568.87	635.53	675.03	715.38	744.62	781.80	850.32		
	1 930		379.20	414.11	416.94	451.36	473.50	488.10	520.58	563.38	591.11	600.50	670.90	712.62	755.23	786.12	825.39	897.77		
2 032			399.32	436.10	439.08	475.33	498.66	514.04	548.25	593.34	622.55	632.45	706.62	750.58	795.48	828.02	869.41	945.69	992.38	1 022.83
	2 134				461.21	499.30	523.81	539.97	575.92	623.30	653.99	664.39	742.34	788.54	835.73	869.93	913.43	993.61	1 042.69	1 074.70
2 235					483.13	523.04	548.72	565.65	603.32	652.96	685.13	696.03	777.71	826.12	875.58	911.43	957.02	1 041.06	1 092.50	1 126.06
	2 337						573.87	591.58	630.99	682.92	716.57	727.97	813.43	864.08	915.93	953.34	1 001.04	1 088.98	1 142.81	1 177.93
	2 438						598.78	617.26	658.39	712.59	747.71	759.61	848.80	901.67	955.68	994.83	1 044.63	1 136.43	1 192.63	1 229.29
2 540							623.94	643.20	686.06	742.55	779.15	791.55	884.52	939.63	995.93	1 036.74	1 088.65	1 184.35	1 242.94	1 821.16

表 1（续）

系列			壁厚/mm																	
系列 1			22.2		25		28		30		32		36		40	45	50	55	60	65
系列 2				23.83		26.19		28.58		30.96		34.93		38.1						
外径/mm			单位长度理论重量/(kg/m)																	
系列 1	系列 2	系列 3																		
1 016			544.09	583.08	610.99	639.30	682.24	695.96	729.49	752.10	776.54	845.12	870.06	918.84	962.78	1 077.58	1 191.15	1 303.48	1 414.58	1 524.45
1 067			572.01	613.05	642.43	672.24	717.45	731.91	767.22	791.04	816.79	889.05	915.34	966.76	1 013.09	1 134.18	1 254.04	1 372.66	1 490.05	1 606.20
1 118			599.93	643.03	673.88	705.18	752.67	767.85	804.95	829.98	857.04	932.98	960.61	1 014.68	1 063.40	1 190.78	1 316.92	1 441.83	1 565.51	1 687.96
	1 168		627.31	672.41	704.70	737.48	787.20	803.09	841.94	868.15	896.49	976.06	1 005.01	1 061.66	1 112.73	1 246.27	1 378.58	1 509.65	1 639.50	1 768.11
1 219			655.23	702.38	736.15	770.42	822.41	839.04	879.68	907.09	936.74	1 019.99	1 050.28	1 109.58	1 163.04	1 302.87	1 441.46	1 578.83	1 714.96	1 849.86
	1 321		711.07	762.33	799.03	836.30	892.84	910.93	955.14	984.97	1 017.24	1 107.85	1 140.84	1 205.42	1 263.66	1 416.06	1 567.24	1 717.18	1 865.89	2 013.36
1 422			766.37	821.68	861.30	901.53	962.59	982.12	1 029.86	1 062.09	1 096.94	1 194.86	1 230.51	1 300.32	1 363.29	1 528.15	1 691.78	1 854.17	2 015.34	2 175.27
	1 524		822.21	881.63	924.19	967.41	1 033.02	1 054.01	1 105.33	1 139.97	1 177.44	1 282.72	1 321.07	1 396.16	1 463.91	1 641.35	1 817.55	1 992.53	2 166.27	2 338.77
1 626			878.06	941.57	987.08	1 033.29	1 103.45	1 125.90	1 180.79	1 217.85	1 257.93	1 370.59	1 411.62	1 492.00	1 564.53	1 754.54	1 943.33	2 130.88	2 317.19	2 502.28
	1 727		933.35	1 000.92	1 049.35	1 098.53	1 173.20	1 197.09	1 255.52	1 294.96	1 337.64	1 457.59	1 501.29	1 586.90	1 664.16	1 866.63	2 067.87	2 267.87	2 466.64	2 664.18
1 829			989.20	1 060.87	1 112.23	1 164.41	1 243.63	1 268.98	1 330.98	1 372.84	1 418.13	1 545.46	1 591.85	1 682.74	1 764.78	1 979.83	2 193.64	2 406.22	2 617.57	2 827.69
	1 930		1 044.49	1 120.22	1 174.50	1 229.64	1 313.37	1 340.17	1 405.71	1 449.96	1 497.84	1 632.46	1 681.52	1 777.64	1 864.41	2 091.91	2 318.18	2 543.22	2 767.02	2 989.59
2 032			1 100.34	1 180.17	1 237.39	1 295.52	1 383.81	1 412.06	1 481.17	1 527.83	1 578.34	1 720.33	1 772.08	1 873.47	1 965.03	2 205.11	2 443.95	2 681.57	2 917.95	3 153.10
	2 134		1 156.18	1 240.11	1 300.28	1 361.40	1 454.24	1 483.95	1 556.63	1 605.71	1 658.83	1 808.19	1 862.63	1 969.31	2 065.65	2 318.30	2 569.72	2 819.92	3 068.88	3 316.60
2 235			1 211.48	1 299.47	1 362.55	1 426.64	1 523.98	1 555.14	1 631.36	1 682.83	1 738.54	1 895.20	1 952.30	2 064.21	2 165.28	2 430.39	2 694.27	2 956.91	3 218.33	3 478.50
	2 337		1 267.32	1 359.41	1 425.43	1 492.52	1 594.42	1 627.03	1 706.82	1 760.71	1 819.03	1 983.06	2 042.86	2 160.05	2 265.90	2 543.59	2 820.04	3 095.26	3 369.25	3 642.01
	2 438		1 322.61	1 418.77	1 487.70	1 557.75	1 664.16	1 698.22	1 781.55	1 837.82	1 898.74	2 070.07	2 132.53	2 254.95	2 365.53	2 656.17	2 944.58	3 232.26	3 518.70	3 803.91
2 540			1 378.46	1 478.71	1 550.59	1 623.63	1 734.59	1 770.11	1 857.01	1 915.70	1 979.23	2 157.93	2 223.09	2 350.79	2 466.15	2 768.87	3 070.36	3 370.61	3 669.63	3 967.42

表 2 精密焊接钢管尺寸及单位长度理论重量

外径/mm		壁厚/mm																							
		0.5	(0.8)	1.0	(1.2)	1.5	(1.8)	2.0	(2.2)	2.5	(2.8)	3.0	(3.5)	4.0	(4.5)	5.0	(5.5)	6.0	(7.0)	8.0	(9.0)	10.0	(11.0)	12.5	(14)
系列 2	系列 3	单位长度理论重量/(kg/m)																							
8		0.092	0.142	0.173	0.201	0.240	0.275	0.296	0.315																
10		0.117	0.182	0.222	0.260	0.314	0.364	0.395	0.423	0.462															
12		0.142	0.221	0.271	0.320	0.388	0.453	0.493	0.532	0.586	0.635	0.666													
	14	0.166	0.260	0.321	0.379	0.462	0.542	0.592	0.640	0.709	0.773	0.814	0.906												
16		0.191	0.300	0.370	0.438	0.536	0.630	0.691	0.749	0.832	0.911	0.962	1.08	1.18											
	18	0.216	0.309	0.419	0.497	0.610	0.719	0.789	0.857	0.956	1.05	1.11	1.25	1.38	1.50										
20		0.240	0.379	0.469	0.556	0.684	0.808	0.888	0.966	1.08	1.19	1.26	1.42	1.58	1.72										
	22	0.265	0.418	0.518	0.616	0.758	0.897	0.988	1.07	1.20	1.33	1.41	1.60	1.78	1.94	2.10									
25		0.302	0.477	0.592	0.704	0.869	1.03	1.13	1.24	1.39	1.53	1.63	1.86	2.07	2.28	2.47	2.64								
	28	0.339	0.517	0.666	0.793	0.980	1.16	1.28	1.40	1.57	1.74	1.85	2.11	2.37	2.61	2.84	3.05								
	30	0.364	0.576	0.715	0.852	1.05	1.25	1.38	1.51	1.70	1.88	2.00	2.29	2.56	2.83	3.08	3.32	3.55	3.97						
32		0.388	0.616	0.765	0.911	1.13	1.34	1.48	1.62	1.82	2.02	2.15	2.46	2.76	3.05	3.33	3.59	3.85	4.32	4.74					
	35	0.425	0.675	0.838	1.00	1.24	1.47	1.63	1.78	2.00	2.22	2.37	2.72	3.06	3.38	3.70	4.00	4.29	4.83	5.33					
38		0.462	0.704	0.912	1.09	1.35	1.61	1.78	1.94	2.19	2.43	2.59	2.98	3.35	3.72	4.07	4.41	4.74	5.35	5.92	6.44	6.91			
40		0.487	0.773	0.962	1.15	1.42	1.70	1.87	2.05	2.31	2.57	2.74	3.15	3.55	3.94	4.32	4.68	5.03	5.70	6.31	6.88	7.40			
	45		0.872	1.09	1.30	1.61	1.92	2.12	2.32	2.62	2.91	3.11	3.58	4.04	4.49	4.93	5.36	5.77	6.56	7.30	7.99	8.63			
50			0.971	1.21	1.44	1.79	2.14	2.37	2.59	2.93	3.26	3.48	4.01	4.54	5.05	5.55	6.04	6.51	7.42	8.29	9.10	9.86			
	55		1.07	1.33	1.59	1.98	2.36	2.61	2.86	3.24	3.60	3.85	4.45	5.03	5.60	6.17	6.71	7.25	8.29	9.27	10.21	11.10	11.94		
60			1.17	1.46	1.74	2.16	2.58	2.86	3.14	3.55	3.95	4.22	4.88	5.52	6.16	6.78	7.39	7.99	9.15	10.26	11.32	12.33	13.29		
70			1.35	1.70	2.04	2.53	3.03	3.35	3.68	4.16	4.64	4.96	5.74	6.51	7.27	8.01	8.75	9.47	10.88	12.23	13.54	14.80	16.01		
80			1.56	1.95	2.33	2.90	3.47	3.05	4.22	4.78	5.33	5.70	6.60	7.50	8.38	9.25	10.11	10.95	12.60	14.21	15.76	17.26	18.72		
	90				2.63	3.27	3.92	4.34	4.76	5.39	6.02	6.44	7.47	8.48	9.49	10.48	11.46	12.43	14.33	16.18	17.98	19.73	21.43		
100					2.92	3.64	4.36	4.83	5.31	6.01	6.71	7.18	8.33	9.47	10.60	11.71	12.82	13.91	16.05	18.15	20.20	22.20	24.14		
	110				3.22	4.01	4.80	5.33	5.85	6.63	7.40	7.92	9.19	10.46	11.71	12.95	14.17	15.39	17.78	20.12	22.42	24.66	26.86	30.06	
120							5.25	5.82	6.39	7.24	8.09	8.66	10.06	11.44	12.82	14.18	15.53	16.87	19.51	22.10	24.64	27.13	29.57	33.14	
	140						6.13	6.81	7.48	8.48	9.47	10.14	11.78	13.42	15.04	16.65	18.24	19.83	22.96	26.04	29.08	32.06	34.99	39.30	
160							7.02	7.79	8.56	9.71	10.86	11.62	13.51	15.39	17.26	19.11	20.96	22.79	26.41	29.99	33.51	36.99	40.42	45.47	
	180															21.58	23.67	25.75	29.87	33.93	37.95	41.92	45.85	51.64	
200																		28.71	33.32	37.88	42.39	46.86	51.27	57.80	
	220																		36.77	41.83	46.83	51.79	56.70	63.97	71.12
	240																		40.22	45.77	51.27	56.72	62.12	70.13	78.03
	260																		43.68	49.72	55.71	61.65	67.55	76.30	84.93

注：( )内壁厚不推荐使用。

表 3　不锈钢焊接钢管尺寸

外径/mm			壁厚/mm																											
系列 1	系列 2	系列 3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.6	1.8	2.0	2.2(2.3)	2.5(2.6)	2.8(2.9)	3.0	3.2	3.5(3.6)	4.0	4.2	4.5(4.6)	4.8	5.0	5.5(5.6)	6.0
	8		●	●	●	●	●	●	●	●	●																		
		9.5	●	●	●	●	●	●	●	●	●																		
	10		●	●	●	●	●	●	●	●	●	●																	
10.2			●	●	●	●	●	●	●	●	●	●	●	●	●	●													
	12		●	●	●	●	●	●	●	●	●	●	●	●	●	●													
	12.7		●	●	●	●	●	●	●	●	●	●	●	●	●	●													
13.5					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									
		14			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
		15			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
	16				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
17.2					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
		18			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
	19				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
		19.5			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
	20				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
21.3					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
		22			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
	25				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
		25.4			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
26.9					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
		28			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
		30			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
	31.8				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
	32				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
33.7								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		35						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		36						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	38							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		

表 3（续）

外径/mm			壁厚/mm																			
系列 1	系列 2	系列 3	6.5(6.3)	7.0(7.1)	7.5	8.0	8.5	9.0(8.8)	9.5	10	11	12(12.5)	14(14.2)	15	16	17(17.5)	18	20(22.2)	24	25	26	28
	8																					
		9.5																				
	10																					
10.2																						
	12																					
	12.7																					
13.5																						
		14																				
		15																				
	16																					
17.2																						
		18																				
	19																					
		19.5																				
	20																					
21.3																						
		22																				
	25																					
		25.4																				
26.9																						
		28																				
		30																				
	31.8																					
	32																					
33.7																						
		35																				
		36																				
	38																					

表 3（续）

外径/mm			壁厚/mm																										
系列 1	系列 2	系列 3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.5	1.6	1.8	2.0	2.2(2.3)	2.5(2.6)	2.8(2.9)	3.0	3.2	3.5(3.6)	4.0	4.2	4.5(4.6)	4.8	5.0	5.5(5.6)	6.0
	40							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
42.4								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		44.5						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
48.3								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	50.8							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		54						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	57							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
60.3								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		63						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	63.5							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	70							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
76.1								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		80									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		82.5									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
88.9											●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	101.6										●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		102									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		108												●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
114.3														●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		125												●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		133												●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
139.7														●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		141.3												●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		154												●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		159												●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
168.3														●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		193.7												●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
219.1														●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		250												●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

表 3（续）

外径/mm			壁厚/mm																				
系列 1	系列 2	系列 3	6.5(6.3)	7.0(7.1)	7.5	8.0	8.5	9.0(8.8)	9.5	10	11	12(12.5)	14(14.2)	15	16	17(17.5)	18	20	22(22.2)	24	25	26	28
	40																						
42.4																							
		44.5																					
48.3																							
	50.8																						
		54																					
	57																						
60.3																							
		63																					
	63.5																						
	70																						
76.1																							
		80	●	●	●	●																	
		82.5	●	●	●	●																	
88.9			●	●	●	●																	
	101.6		●	●	●	●																	
		102	●	●	●	●																	
		108	●	●	●	●																	
114.3			●	●	●	●																	
		125	●	●	●	●	●	●	●	●													
		133	●	●	●	●	●	●	●	●													
139.7			●	●	●	●	●	●	●	●	●												
		141.3	●	●	●	●	●	●	●	●	●	●											
		154	●	●	●	●	●	●	●	●	●	●											
		159	●	●	●	●	●	●	●	●	●	●											
168.3			●	●	●	●	●	●	●	●	●	●											
		193.7	●	●	●	●	●	●	●	●	●	●											
219.1			●	●	●	●	●	●	●	●	●	●	●										
		250	●	●	●	●	●	●	●	●	●	●	●										

表 3（续）

外径/mm			壁厚/mm																								
系列 1	系列 2	系列 3	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.5	1.6	1.8	2.0	2.2(2.3)	2.5(2.6)	2.8(2.9)	3.0	3.2	3.5(3.6)	4.0	4.2	4.5(4.6)	4.8	5.0	5.5(5.6)	6.0
273.1														●	●	●	●	●	●	●	●	●	●	●	●	●	●
323.9																●	●	●	●	●	●	●	●	●	●	●	●
355.6																●	●	●	●	●	●	●	●	●	●	●	●
		377														●	●	●	●	●	●	●	●	●	●	●	●
		400														●	●	●	●	●	●	●	●	●	●	●	●
406.4																●	●	●	●	●	●	●	●	●	●	●	●
		426															●	●	●	●	●	●	●	●	●	●	●
		450															●	●	●	●	●	●	●	●	●	●	●
457																	●	●	●	●	●	●	●	●	●	●	●
		500															●	●	●	●	●	●	●	●	●	●	●
508																	●	●	●	●	●	●	●	●	●	●	●
		530															●	●	●	●	●	●	●	●	●	●	●
		550															●	●	●	●	●	●	●	●	●	●	●
		558.8															●	●	●	●	●	●	●	●	●	●	●
		600																	●	●	●	●	●	●	●	●	●
610																			●	●	●	●	●	●	●	●	●
		630																	●	●	●	●	●	●	●	●	●
		660																	●	●	●	●	●	●	●	●	●
711																			●	●	●	●	●	●	●	●	●
	762																		●	●	●	●	●	●	●	●	●
813																			●	●	●	●	●	●	●	●	●
		864																	●	●	●	●	●	●	●	●	●
914																			●	●	●	●	●	●	●	●	●
		965																	●	●	●	●	●	●	●	●	●
1 016																			●	●	●	●	●	●	●	●	●
1 067																			●	●	●	●	●	●	●	●	●
1 118																			●	●	●	●	●	●	●	●	●
	1 168																		●	●	●	●	●	●	●	●	●

表 3（续）

外径/mm			壁厚/mm																				
系列 1	系列 2	系列 3	6.5(6.3)	7.0(7.1)	7.5	8.0	8.5	9.0(8.8)	9.5	10	11	12(12.5)	14(14.2)	15	16	17(17.5)	18	20	22(22.2)	24	25	26	28
273.1			●	●	●	●	●	●	●	●	●	●	●										
323.9			●	●	●	●	●	●	●	●	●	●	●	●	●								
355.6			●	●	●	●	●	●	●	●	●	●	●	●	●								
		377	●	●	●	●	●	●	●	●	●	●	●	●	●								
		400	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
406.4			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
		426	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
457			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		450	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		500	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
508			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		530	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		550	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		558.8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
610			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		630	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		660	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
711			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	762		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
813			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		864	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
914			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		965	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1 016			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1 067			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1 118			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	1 168		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

表 3（续）

外径/mm			壁厚/mm																								
系列 1	系列 2	系列 3	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.5	1.6	1.8	2.0	2.2(2.3)	2.5(2.6)	2.8(2.9)	3.0	3.2	3.5(3.6)	4.0	4.2	4.5(4.6)	4.8	5.0	5.5(5.6)	6.0
1 219																			●	●	●	●	●	●	●	●	●
	1 321																		●	●	●	●	●	●	●	●	●
1 422																			●	●	●	●	●	●	●	●	●
	1 524																		●	●	●	●	●	●	●	●	●
1 626																			●	●	●	●	●	●	●	●	●
	1 727																		●	●	●	●	●	●	●	●	●
1 829																			●	●	●	●	●	●	●	●	●

表 3（续）

外径/mm			壁厚/mm																				
系列 1	系列 2	系列 3	6.5(6.3)	7.0(7.1)	7.5	8.0	8.5	9.0(8.8)	9.5	10	11	12(12.5)	14(14.2)	15	16	17(17.5)	18	20	22(22.2)	24	25	26	28
1 219			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	1 321		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1 422			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	1 524		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1 626			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	1 727		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1 829			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

注 1：( )内尺寸表示由相应英制规格换算成的公制规格。

注 2："●"表示常用规格。

GB/T 21835—2008

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