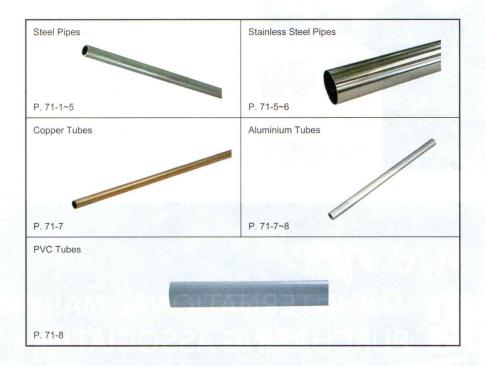
71 Pipes & Tubes



Carbon Steel Pipes for Ordinary Piping

Galvanized

Tuberías de Acero Carbono 配管用炭素鋼鋼管(白管) 普通镀锌钢管

Standard length: 5.5 mtrs.

Ref. JIS-G-3452 (SGP) standard industrial quality. SGP denotes

Steel Gas Piping.

Equal to ASTM A53, BS1387, and

DIN1615, and ISO65 quality. For general purpose use such as in steam lines, water and gas piping, etc.

How to order: CODE

Pipe, carbon steel, galvanized, NOMINAL SIZE, LENGTH mtr

Unit Per Lah.

SGP

Ga	alvanize	d		
Standard	Length	5.5	mtrs	

0005	Nomina	al Size	Size	mm	Kg
CODE	А	В	O.D.	Wall T	Per Mtr
71 01 01	6A	1/8	10.5	2.0	0.419
02	8A	1/4	13.8	2.3	0.652
03	10A	3/8	17.3	2.3	0.851
04	15A	1/2	21.7	2.8	1.310
05	20A	3/4	27.2	2.8	1.680
71 01 06	25A	1	34.0	3.2	2.430
07	32A	1-1/4	42.7	3.5	3.380
08	40A	1-1/2	48.6	3.5	3.890
09	50A	2	60.5	3.8	5.310
10	65A	2-1/2	76.3	4.2	7.470
71 01 11	80A	3	89.1	4.2	8.790
12	90A	3-1/2	101.6	4.2	10.1
13	100A	4	114.3	4.5	12.2
14	125A	5	139.8	4.5	15.0
15	150A	6	165.2	5.0	19.8
71 01 16	175A	7	190.7	5.3	24.2
17	200A	8	216.3	5.8	30.1
18	225A	9	241.8	6.2	36.0
19	250A	10	267.4	6.6	42.4
20	300A	12	318.5	6.9	53.0
71 01 21	350A	14	355.6	7.9	67.7
22	400A	16	406.4	7.9	77.6
23	450A	18	457.2	7.9	87.5
. 24	500A	20	508.0	7.9	97.4

Carbon Steel Pipes for Ordinary Piping Ungalvanized

Tuberías de Acero Carbono para Servicio Ordinario (Sin Galcanizar) 配管用炭素鋼鋼管 (黒管) 普通碳钢黑管

Standard length: 5.5 mtrs.

Exactly the same specifications as described above but ungalvanized.

SGP

How to order: CODE

Pipe, carbon steel, ungalvanized, NOMINAL SIZE, LENGTH mtr

Unit Per Lgh.

Black or Ungalvanized Standard Length 5.5 mtrs

CODE	Nominal Size		Size	Size mm		
	А	В	O.D.	Wall T	Per Mtr	
71 01 51	6A	1/8	10.5	2.0	0.419	
52	8A	1/4	13.8	2.3	0.652	
53	10A	3/8	17.3	2.3	0.851	
54	15A	1/2	21.7	2.8	1.310	
55	20A	3/4	27.2	2.8	1.680	

71 01 56	25A	1	34.0	3.2	2.430
57	32A	1-1/4	42.7	3.5	3.380
58	40A	1-1/2	48.6	3.5	3.890
59	50A	2	60.5	3.8	5.310
60	65A	2-1/2	76.3	4.2	7.470
71 01 61	80A	3	89.1	4.2	8.790
62	90A	3-1/2	101.6	4.2	10.1
63	100A	4	114.3	4.5	12.2
64	125A	5	139.8	4.5	15.0
65	150A	6	165.2	5.0	19.8
71 01 66	175A	7	190.7	5.3	24.2
67	200A	8	216.3	5.8	30.1
68	225A	9	241.8	6.2	36.0
69	250A	10	267.4	6.6	42.4
70	300A	12	318.5	6.9	53.0
71 01 71	350A	14	355.6	7.9	67.7
72	400A	16	406.4	7.9	77.6
73	450A	18	457.2	7.9	87.5
74	500A	20	508.0	7.9	97.4

Carbon Steel Pipes for Pressure Services

Tuberías de Acero Carbono para Servicio de Presión 圧力配管用炭素鋼鋼管 碳钢管

Standard length: 5.5 mtrs.

Ref. JIS-G-3454 (STPG-370) standard industrial quality. STPG denotes Steel Tube Piping General.

Equal quality to ASTM A135/A53 or DIN1626/1629 and ISO2604. Both ends are plain ends. Available in black only. Two types of electric resistant welding (ERW) and



seamless pipes are available. Most common schedule (Wall Thickness) Number 40 and 80 are listed below.

ERW (Electric Resistant Welding) Pipes

How to order: CODE

Pipe, carbon steel for pressure service, ERW, SCHEDULE NO., NOMINAL SIZE, Length mtr

Unit Per Lgh.

ERW Schedule-40

	Nomin	al Size	Size	mm	Test	Kg
CODE	Α	В	O.D.	Wall T	Pressure MPa	Per Mtr
71 02 01	6A	1/8	10.5	1.7	6.0	0.369
02	8A	1/4	13.8	2.2	"	0.629
03	10A	3/8	17.3	2.3	"	0.851
04	15A	1/2	21.7	2.8	"	1.31
05	20A	3/4	27.2	2.9	u.	1.74
71 02 06	25A	1	34.0	3.4	6.0	2.57
07	32A	1-1/4	42.7	3.6	"	3.47
08	40A	1-1/2	48.6	3.7	"	4.10
09	50A	2	60.5	3.9	"	5.44
10	65A	2-1/2	76.3	5.2	"	9.12
71 02 11	80A	3	89.1	5.5	6.0	11.3
12	90A	3-1/2	101.6	5.7	"	13.5
13	100A	4	114.3	6.0	"	16.0
14	125A	5	139.8	6.6	"	21.7
15	150A	6	165.2	7.1	"	27.7
71 02 16	200A	8	216.3	8.2	6.0	42.1
17	250A	10	267.4	9.3	"	59.2
18	300A	12	318.5	10.3		78.3
19	350A	14	355.6	11.1		94.3
20	400A	16	406.4	12.7		123
71 02 21	450A	18	457.2	14.3	6.0	156
22	500A	20	508.0	15.1	11	184

						Unit Per Lgh.
is .			RW Sched ard Lengt		rs	Ÿ.
	Nomin	al Size	Size	mm	Test	Kg
CODE	А	В	O.D.	Wall T	Pressure MPa	Per Mtr
71 02 26	6A	1/8	10.5	2.4	12.0	0.479
27	8A	1/4	13.8	3.0	"	0.799
28	10A	3/8	17.3	3.2	. "	1.11
29	15A	1/2	21.7	3.7	н	1.64
30	20A	3/4	27.2	3.9	"	2.24
71 02 31	25A	1	34.0	4.5	12.0	3.27
32	32A	1-1/4	42.7	4.9		4.57
33	40A	1-1/2	48.6	5.1	.01.	5.47
34	50A	2	60.5	5.5		7.46
35	65A	2-1/2	76.3	7.0		12.0
71 02 36	80A	3	89.1	7.6	12.0	15.3
37	90A	3-1/2	101.6	8.1	"	18.7
38	100A	4	114.3	8.6	эн	22.4
39	125A	5	139.8	9.5	"	30.5
40	150A	6	165.2	11.0	"	41.8
71 02 41	200A	8	216.3	12.7	12.0	63.8
42	250A	10	267.4	15.1	"	93.9
43	300A	12	318.5	17.4		129
44	350A	14	355.6	19.0	"	158
45	400A	16	406.4	21.4	10	203
71 02 46	450A	18	457.2	23.8	12.0	254
47	500A	20	508.0	26.2	"	311

Seamless Pipes

How to order: CODE

Pipe, carbon steel for pressure service, seamless, SCHEDULE NO., NOMINAL SIZE, LENGTH mtr

						Unit Per Lgh.
			nless Sch			
	Nomin	al Size	Size		Test	Kg
CODE	Α	В	O.D.	Wall T	Pressure MPa	Per Mtr
71 02 51	6A	1/8	10.5	1.7	6.0	0.369
52	8A	1/4	13.8	2.2	"	0.629
53	10A	3/8	17.3	2.3	SHE .	0.851
54	15A	1/2	21.7	2.8	"	1.31
55	20A	3/4	27.2	2.9	"	1.74
71 02 56	25A	1	34.0	3.4	6.0	2.57
57	32A	1-1/4	42.7	3.6	"	3.47
58	40A	1-1/2	48.6	3.7	"	4.10
59	50A	2	60.5	3.9	"	5.44
60	65A	2-1/2	76.3	5.2	- n	9.12
71 02 61	80A	3	89.1	5.5	6.0	11.3
62	90A	3-1/2	101.6	5.7	"	13.5
63	100A	4	114.3	6.0	"	16.0
64	125A	5	139.8	6.6	""	21.7
65	150A	6	165.2	7.1	11	27.7
71 02 66	200A	8	216.3	8.2	6.0	42.1
67	250A	10	267.4	9.3	"	59.2
68	300A	12	318.5	10.3	"	78.3
69	350A	14	355.6	11.1		94.3
70	400A	16	406.4	12.7	"	123
71 02 71	450A	18	457.2	14.3	6.0	156
72	500A	20	508.0	15.1	"	184
		Sear	nless Sch	edule-80)	
			ard Lengt	h 5.5 mt		
71 02 76	6A	1/8	10.5	2.4	12.0	0.479
77	8A	1/4	13.8	3.0	"	0.799
78	10A	3/8	17.3	3.2	"	1.11
79	15A	1/2	21.7	3.7	эк	1.64
80	20A	3/4	27.2	3.9	"	2.24
71 02 81	25A	1	34.0	4.5	12.0	3.27
82	32A	1-1/4	42.7	4.9	"	4.57
83	40A	1-1/2	48.6	5.1	"	5.47
84	50A	2	60.5	5.5	:HC	7.46
85	65A	2-1/2	76.3	7.0	"	12.0

71 02 86	80A	3	89.1	7.6	12.0	15.3
87	90A	3-1/2	101.6	8.1	11	18.7
88	100A	4	114.3	8.6	n	22.4
89	125A	5	139.8	9.5	11	30.5
90	150A	6	165.2	11.0	"	41.8
71 02 91	200A	8	216.3	12.7	12.0	63.8
92	250A	10	267.4	15.1	U	93.9
93	300A	12	318.5	17.4		129
94	350A	14	355.6	19.0	11	158
95	400A	16	406.4	21.4	100	203
71 02 96	450A	18	457.2	23.8	12.0	254
97	500A	20	508.0	26.2	10.5	311

Carbon Steel Pipes for High Pressure Service

Tuberías de Acero Carbono para Servicio de Alta Presión 高圧配管用炭素鋼鋼管 碳钢管

Standard length: 5.5 mtrs.

Ref. JIS-G-3455 (STS-370) quality. STS denotes Steel Tube Special.

Equal quality to BS778, DIN1630, ISO2604. Plain both ends. Available in black only. Most common schedule (Wall Thickness) number 40, 80 and 160 are listed below. They are used for temperatures less than 350°C.



How to order: CODE

29

30

32

33 40A

34

71 04 31

15A

20A 25A

32A

50A

65A

1/2

3/4

1-1/4

1-1/2

2

Pipe, carbon steel for high pressure, NOMINAL SIZE, LENGTH

			Schedul	- 40		Unit Per Lgh
		Stand	ard Leng		rs	
	Nomin	al Size	Size	mm	Test	Kg
CODE	А	В	O.D.	Wall T	Pressure MPa	Per Mtr
71 04 01	6A	1/8	10.5	1.7	6.0	0.369
02	A8	1/4	13.8	2.2		0.629
03	10A	3/8	17.3	2.3		0.851
04	15A	1/2	21.7	2.8		1.31
05	20A	3/4	27.2	2.9	:0	1.74
71 04 06	25A	1	34.0	3.4	6.0	2.57
07	32A	1-1/4	42.7	3.6	11	3.47
08	40A	1-1/2	48.6	3.7		4.10
09	50A	2	60.5	3.9	On .	5.44
10	65A	2-1/2	76.3	5.2	11	9.12
71 04 11	80A	3	89.1	5.5	6.0	11.3
12	90A	3-1/2	101.6	5.7	.11	13.5
13	100A	4	114.3	6.0	- 0	16.0
14	125A	5	139.8	6.6	11	21.7
15	150A	6	165.2	7.1	100	27.7
71 04 16	200A	8	216.3	8.2	6.0	42.1
17	250A	10	267.4	9.3	"	59.2
18	300A	12	318.5	10.3	11	78.3
19	350A	14	355.6	11.1	310	94.3
20	400A	16	406.4	12.7	п	123
71 04 21	450A	18	457.2	14.3	6.0	156
22	500A	20	508.0	15.1	11	184
			Schedule			
		Stand	ard Lengt	h 5.5 mt	rs	
71 04 26	6A	1/8	10.5	2.4	12.0	0.479
27	A8	1/4	13.8	3.0	11	0.799
28	10A	3/8	17.3	3.2	"	1.11

21.7

27.2 34.0

42.7

48.6

60.5

76.3

3.7

3.9

4.5

4.9

5.1

5.5

12.0

1.64

2.24

3.27

4.57

5.47

7.46

Uni	t Pe	er L	gh

	Nomin	al Size	Size	mm	Test	Kg
CODE	А	В	O.D.	Wall T	Pressure MPa	Per Mtr
71 04 36	80A	3	89.1	7.6	12.0	15.3
37	90A	3-1/2	101.6	8.1	"	18.7
38	100A	4	114.3	8.6	"	22.4
39	125A	5	139.8	9.5	и.	30.5
40	150A	6	165.2	11.0	и	41.8
71 04 41	200A	8	216.3	12.7	12.0	63.8
42	250A	10	267.4	15.1	"	93.9
43	300A	12	318.5	17.4	"	129
44	350A	14	355.6	19.0	"	158
45	400A	16	406.4	21.4	. "	203
71 04 46	450A	18	457.2	23.8	12.0	254
47	500A	20	508.0	26.2	п	311

47	500A	20	508.0	26.2	"	311
			Schedule-	160		
		Stand	ard Lengt	h 5.5 mtr	S	
71 04 51	15A	1/2	21.7	4.7	20.0	1.97
52	20A	3/4	27.2	5.5	"	2.94
53	25A	1	34.0	6.4	**	4.36
54	32A	1-1/4	42.7	6.4	"	5.73
55	40A	1-1/2	48.6	7.1	n n	7.27
71 04 56	50A	2	60.5	8.7	20.0	11.1
57	65A	2-1/2	76.3	9.5	**	15.6
58	80A	3	89.1	11.1		21.4
59	90A	3-1/2	101.6	12.7	11	27.8
60	100A	4	114.3	13.5	"	33.6
71 04 61	125A	5	139.8	15.9	20.0	48.6
62	150A	6	165.2	18.2	"	66.6
63	200A	8	216.3	23.0	11	110
64	250A	10	267.4	28.6	"	168
65	300A	12	318.5	33.3		234
71 04 66	350A	14	355.6	35.7	20.0	282
67	400A	16	406.4	40.5	11	365

Carbon Steel Pipes

for High Temperature Service

Tuberías de Acero Carbono para Servicio de Alta Temperatura 高温配管用炭素鋼鋼管 碳钢管

Standard length: 5.5 mtrs.

Ref. JIS-G-3456 (STPT-370) standard industrial quality. STPT denotes Steel Tube Piping Temperature. Equal quality to ASTM A106, DIN17175, BS3602 and ISO2604. Available in black only. Most common schedule (Wall Thickness) number 40, 80 and 160 are listed below. They are used for temperatures over 350°C.



How to order: CODE

Pipe, carbon steel for high temperature service, SCHEDULE NO., NOMINAL SIZE, LENGTH mtr

Unit Per Lgh.

Schedule-40

CODE	Nomina	I Size	Size	Kg	
	А	В	O.D.	Wall T	Per Mtr
71 05 01	6A	1/8	10.5	1.7	0.369
02	8A	1/4	13.8	2.2	0.629
03	10A	3/8	17.3	2.3	0.851
04	15A	1/2	21.7	2.8	1.31
05	20A	3/4	27.2	2.9	1.74
71 05 06	25A	1	34.0	3.4	2.57
07	32A	1-1/4	42.7	3.6	3.47
08	40A	1-1/2	48.6	3.7	4.10
09	50A	2	60.5	3.9	5.44
10	65A	2-1/2	76.3	5.2	9.12

(to be continued)

71 05 11	80A	3	89.1	5.5	11.3
12	90A	3-1/2	101.6	5.7	13.5
13	100A	4	114.3	6.0	16.0
14	125A	5	139.8	6.6	21.7
15	150A	6	165.2	7.1	27.7
71 05 16	200A	8	216.3	8.2	42.1
17	250A	10	267.4	9.3	59.2
18	300A	12	318.5	10.3	78.3
19	350A	14	355.6	11.1	94.3
20	400A	16	406.4	12.7	123
71 05 21	450A	18	457.2	14.3	156
22	500A	20	508.0	15.1	184

22	500A	20	508.0	15.1	184
		Schedu	ile-80		
	Star	ndard Len	gth 5.5 mtr		
71 05 26	6A	1/8	10.5	2.4	0.479
27	8A	1/4	13.8	3.0	0.799
28	10A	3/8	17.3	3.2	1.11
29	15A	1/2	21.7	3.7	1.64
30	20A	3/4	27.2	3.9	2.24
71 05 31	25A	1	34.0	4.5	3.27
32	32A	1-1/4	42.7	4.9	4.57
33	40A	1-1/2	48.6	5.1	5.47
34	50A	2	60.5	5.5	7.46
35	65A	2-1/2	76.3	7.0	12.0
71 05 36	80A	3	89.1	7.6	15.3
37	90A	3-1/2	101.6	8.1	18.7
38	100A	4	114.3	8.6	22.4
39	125A	5	139.8	9.5	30.5
40	150A	6	165.2	11.0	41.8
71 05 41	200A	8	216.3	12.7	63.8
42	250A	10	267.4	15.1	93.9
43	300A	12	318.5	17.4	129
44	350A	14	355.6	19.0	158
45	400A	16	406.4	21.4	203
71 05 46	450A	18	457.2	23.8	254
47	500A	20	508.0	26.2	311

		Schedu	le-160		
	Star	ndard Leng	gth 5.5 mtrs	5	
71 05 51	15A	1/2	21.7	4.7	1.97
52	20A	3/4	27.2	5.5	2.94
53	25A	1	34.0	6.4	4.36
54	32A	1-1/4	42.7	6.4	5.73
55	40A	1-1/2	48.6	7.1	7.27
71 05 56	50A	2	60.5	8.7	11.1
57	65A	2-1/2	76.3	9.5	15.6
58	80A	3	89.1	11.1	21.4
59	90A	3-1/2	101.6	12.7	27.8
60	100A	4	114.3	13.5	33.6
71 05 61	125A	5	139.8	15.9	48.6
62	150A	6	165.2	18.2	66.6
63	200A	8	216.3	23.0	110
64	250A	10	267.4	28.6	168
65	300A	12	318.5	33.3	234
71 05 66	350A	14	355.6	35.7	282
67	400A	16	406.4	40.5	365

Steel Pipes

for Low Temperature Service

Tuberías de Acero para Servicio de Baja Temperatura 低温配管用鋼管 钢管

Standard length: 5.5 mtrs

Ref. JIS-G-3460 (STPL-380) quality. STPL denotes Steel Tube Piping Low. Equal quality of ASTM A333, BS3603, and ISO2604. Available in black only. Most common schedule (Wall Thickness) Number 40 and 80 are listed below. They are used for Temperatures below 0°C.



How to order: CODE

Pipe, steel for low temperature service, SCHEDULE NO.,

NOMINAL SIZE, LENGTH mtr

71 06 46

450A

500A

_
U
0
P
S
00
Y.

Unit Per Lgh.

	Star	Schedundard Len	ule-40 gth 5.5 mti	rs	
CODE	Nomina	I Size	Size	Kg	
CODE	Α	В	O.D.	Wall T	Per Mtr
71 06 01	6A	1/8	10.5	1.7	0.369
02	8A	1/4	13.8	2.2	0.629
03	10A	3/8	17.3	2.3	0.851
04	15A	1/2	21.7	2.8	1.31
05	20A	3/4	27.2	2.9	1.74
71 06 06	25A	1	34.0	3.4	2.57
07	32A	1-1/4	42.7	3.6	3.47
08	40A	1-1/2	48.6	3.7	4.10
09	50A	2	60.5	3.9	5.44
10	65A	2-1/2	76.3	5.2	9.12
71 06 11	80A	3	89.1	5.5	11.3
12	90A	3-1/2	101.6	5.7	13.5
13	100A	4	114.3	6.0	16.0
14	125A	5	139.8	6.6	21.7
15	150A	6	165.2	7.1	27.7
71 06 16	200A	8	1216.3	8.2	42.1
17	250A	10	267.4	9.3	59.2
18	300A	12	318.5	10.3	78.3
19	350A	14	355.6	11.1	94.3
20	400A	16	406.4	12.7	123
71 06 21	450A	18	457.2	14.3	156
22	500A	20	508.0	15.1	184

Schedule-80 Standard Length 5.5 mtrs 71 06 26 10.5 2.4 27 88 1/4 13.8 3.0 0.799 28 10A 17.3 3/8 3.2 1.11 29 15A 1/2 21.7 3.7 1.64 27.2 30 20A 3/4 3.9 2.24 71 06 31 25A 34.0 4.5 3.27 32 32A 1-1/4 42.7 4.9 4.57 33 40A 1-1/2 48.6 5.1 5.47 60.5 34 50A 2 5.5 7.46 35 65A 2-1/2 76.3 12.0 71 06 36 80A 89.1 3 7.6 15.3 37 90A 3-1/2 101.6 8 1 18.7 38 100A 4 114.3 8.6 22.4 39 125A 5 139.8 9.5 30.5 40 150A 165.2 6 11.0 41.8 71 06 41 200A 216.3 12.7 63.8 42 250A 10 267.4 15.1 93.9 43 300A 12 318.5 17.4 129 350A 14 44 355.6 19.0 158 45 400A 406.4 21.4 203

18

20

457.2

508.0

23.8

26.2

254

Carbon Steel Precision Tubes for Hydraulic Line Service

Tuberías de Presión de Acero para Servicio de Líea Hidráulica

油圧配管用精密炭素鋼鋼管 液压碳钢管

The carbon steel precision tubes for hydraulic line service are classed according to the working pressure, appropriate standard and manufacturing process. The most common



classes of line service items are abstracted and listed below.

Name	Class of Working Pressure	Symbol of Standard	Manufacturing Process	
Precision carbon steel tubes for hydraulic line service	Under 210 kgf/cm ²	OST 2	sc	
	Under 100 kgf/cm²	OST 1	S-C E-C	

Standard length of pipe is 4 mtrs. and sold by weight. When ordering, please specify the following points.

1. Working pressure 2. Outside diameter 3. Thickness

How to order: CODE

Pipe, carbon steel, OST - 2, OUTSIDE DIAM mm, THICKNESS mm, LENGTH mtr

OST-2 Standard Length 4 mtrs

Unit Per Lgh.

CODE	Outside	Thickness	CODE	Outside Dia. mm	Thickness
220 200 2200	Dia. mm	mm	nm		mm
71 07 01	4	1.0	71 07 19	16	1.5
02	6	1.0	20	16	2.0
03	6	1.5	21	18	1.5
04	8	1.0	22	18	2.0
05	8	1.5	23	18	2.5
71 07 06	8	2.0	71 07 24	20	2.0
07	10	1.0	25	20	2.5
08	10	1.2	26	20	3.0
09	10	1.5	27	22	2.0
10	10	2.0	28	22	3.0
71 07 11	12	1.0	71 07 29	25	2.0
12	12	1.2	30	25	2.5
13	12	1.5	31	25	3.0
14	12	2.0	32	28	2.5
15	15	1.2	33	30	2.5
71 07 16	15	1.5	71 07 34	35	2.5
17	15	2.0	35	35	4.0
18	15	2.5	36	42	4.0



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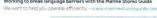


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Available size range normally produced are as follows.

Wall thickness	Standard dimension	0.5	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	7.0
(mm)	Tolerance		±1	5%		±10%									
Outside diameter (mm)															
Standard dimension	Tolerance									×					
4.0		ΟΔ	0 ◊												
6.0		Δ	00		0 0										
8.0		Δ	00	11	00										
10.0		Δ	0 ◊		0 ◊	0 ◊									
12.0			0 ◊		0 ◊		00								
13.8															
15.0	±0.10	-1	1 21		0		0								
16.0	±0.10				\Diamond	\Q		\Q							
17.3															
18.0					0		0	0							
20.0					\Diamond	\Q	\Q		\Q						
21.7															
22.0						0		0		0					
25.0						0		0			0				
27.2															
28.0						0	0		0			0			
30.0	.0.15					0	\Q		♦				♦		
34.0	±0.15		285	111111											
35.0						0	0	0			0				
38.0						March St. Barrier			0						0

Notes: 1) Boxed columns indicates range of dimensions of tubes normally manufactured.

- 2) Mark o standard dimensions specified in Japan Oil Hydraulic Association Standards (OST).
- 3) Mark \Diamond standard dimensions specified in Japanese Industrial Standards (JIS B STPS).
- 4) Mark Δ standard dimensions of soft iron tubes.

Stainless Steel Pipes

配管用ステンレス鋼鋼管 Tuberías de Acero - inoxidable 不锈钢管

Standard length: 4 mtrs.

Ref. JIS-G-3459 (SUS 304 TP) standard industrial quality. SUS TP denotes Steel Use Stainless Tube Piping. Equal quality of ASTM A312, BS3605.

Used for corrosion proof, heat-resistance and high temperature service.



Hydrau	lic '	Toet	Pressure

	,					
Schedule No.	5	10	20	40	80	160
MPa	1.5	2.0	3.5	6.0	12	20
kgf/cm²	15	20	35	60	120	200
Bar	15	20	34	59	118	196

How to order: CODE

Stainless steel pipe, SCHEDULE NO., NOMINAL SIZE, LENGTH mtr

					Unit Per Lg
8	Sta	Schedu andard Ler		3	
0005	Nomina	al Size	Size	mm	Kg
CODE	Α	В	O.D.	Wall T	Per Mti
71 10 01	6A	1/8	10.5	1.0	0.237
02	8A	1/4	13.8	1.2	0.377
03	10A	3/8	17.3	1.2	0.481
04	15A	1/2	21.7	1.65	0.824
05	20A	3/4	27.2	1.65	1.05
71 10 06	25A	1	34.0	1.65	1.33
07	32A	1-1/4	42.7	1.65	1.69
08	40A	1-1/2	48.6	1.65	1.93
09	50A	2	60.5	1.65	2.42
_ 10	65A	2-1/2	76.3	2.1	3.88
71 10 11	80A	3	89.1	2.1	4.55
12	90A	3-1/2	101.6	2.1	5.20
13	100A	4	114.3	2.1	5.87
14	125A	5	139.8	2.8	9.56
15	150A	6	165.2	2.8	11.3
71 10 16	200A	8	216.3	2.8	14.9
17	250A	10	267.4	3.4	22.4
18	300A	12	318.5	4.0	31.3

(to be continued)

				#	Unit Per Lgh
	C4	Sched			
		andard Ler			12000
CODE		al Size		mm	Kg Per Mtr
	A	Schedu	0.D.	Wall T	Periviti
	St	andard Ler		3	
71 10 26	6A	1/8	10.5	1.2	0.278
27 28	8A	1/4	13.8	1.65 1.65	0.499 0.643
29	10A 15A	3/8 1/2	17.3 21.7	2.1	1.03
30	20A	3/4	27.2	2.1	1.31
71 10 31	25A	1	34.0	2.8	2.18
32	32A	1-1/4	42.7	2.8	2.78
33	40A	1-1/2	48.6	2.8	3.19
34 35	50A	2 1/2	60.5	2.8 3.0	4.02 5.48
71 10 36	65A 80A	3	76.3 89.1	3.0	6.43
37	90A	3-1/2	101.6	3.0	7.37
38	100A	4	114.3	3.0	8.32
39	125A	5	139.8	3.4	11.6
40	-150A	6	165.2	3.4	13.7
71 10 41	200A	8	216.3	4.0	21.2
42	250A	10	267.4	4.0	26.2 35.2
43	300A	12 Schedu	318.5	4.0	33.2
	St	andard Ler		:	
71 10 51	6A	1/8	10.5	1.5	0.336
52	8A	1/4	13.8	2.0	0.588
53	10A	3/8	17.3	2.0	0.762
54 55	15A 20A	1/2 3/4	21.7	2.5	1.20
71 10 56	25A	1	27.2 34.0	3.0	1.54 2.32
57	32A	1-1/4	42.7	3.0	2.97
58	40A	1-1/2	48.6	3.0	3.41
59	50A	2	60.5	3.5	4.97
71 10 61	65A 80A	2-1/2	76.3 89.1	3.5 4.0	6.35
62	90A	3-1/2	101.6	4.0	8.48 9.72
63	100A	4	114.3	4.0	11.0
64	125A	5	139.8	5.0	16.8
71 10 66	150A	6	165.2	5.0	20.0
67	200A 250A	10	216.3 267.4	6.5 6.5	34.0 42.2
68	300A	12	318.5	6.5	50.5
1		Schedu	le-40		
74 40 70		andard Len			0.070
71 10 76	6A 8A	1/8 1/4	10.5 13.8	1.7 2.2	0.373 0.636
78	10A	3/8	17.3	2.3	0.859
79	15A	1/2	21.7	2.8	1.32
80	20A	3/4	27.2	2.9	1.76
71 10 81	25A	1	34.0	3.4	2.59
82 83	32A 40A	1-1/4 1-1/2	42.7 48.6	3.6 3.7	3.51 4.14
84	50A	2	60.5	3.9	5.50
85	65A	2-1/2	76.3	5.2	9.21
71 10 86	80A	3	89.1	5.5	11.5
87	90A	3-1/2	101.6	5.7	13.6
88 89	100A 125A	5	114.3 139.8	6.0	16.2 21.9
90	150A	6	165.2	7.1	28.0
71 10 91	200A	8	216.3	8.2	42.5
92	250A	10	267.4	9.3	59.8
	300A	12	318.5	10.3	79.1
93		Schedu			
	St-	andard I on	MILL THILLS		
93	Sta 6A	ndard Len 1/8		2.4	0.484
		1/8 1/4	10.5 13.8	2.4 3.0	0.484
93 71 11 01 02 03	6A 8A 10A	1/8 1/4 3/8	10.5 13.8 17.3	3.0 3.2	0.807 1.12
71 11 01 02 03 04	6A 8A 10A 15A	1/8 1/4 3/8 1/2	10.5 13.8 17.3 21.7	3.0 3.2 3.7	0.807 1.12 1.66
71 11 01 02 03 04 05	6A 8A 10A 15A 20A	1/8 1/4 3/8 1/2 3/4	10.5 13.8 17.3 21.7 27.2	3.0 3.2 3.7 3.9	0.807 1.12 1.66 2.26
71 11 01 02 03 04 05 71 11 06	6A 8A 10A 15A 20A 25A	1/8 1/4 3/8 1/2 3/4	10.5 13.8 17.3 21.7 27.2 34.0	3.0 3.2 3.7 3.9 4.5	0.807 1.12 1.66 2.26 3.31
71 11 01 02 03 04 05	6A 8A 10A 15A 20A	1/8 1/4 3/8 1/2 3/4	10.5 13.8 17.3 21.7 27.2	3.0 3.2 3.7 3.9	0.807 1.12 1.66 2.26
71 11 01 02 03 04 05 71 11 06 07	6A 8A 10A 15A 20A 25A 32A	1/8 1/4 3/8 1/2 3/4 1 1-1/4	10.5 13.8 17.3 21.7 27.2 34.0 42.7	3.0 3.2 3.7 3.9 4.5 4.9	0.807 1.12 1.66 2.26 3.31 4.61

71 11 11	80A	3	89.1	7.6	15.4
12	90A	3-1/2	101.6	8.1	18.9
13	100A	4	114.3	8.6	22.6
14	125A	5	139.8	9.5	30.8
15	150A	6	165.2	11.0	42.3
71 11 16	200A	8	216.3	12.7	64.4
17	250A	10	267.4	15.1	94.9
18	300A	12	318.5	17.4	131
	04	Schedul			
			gth 4 mtrs		
71 11 26	100A	4	114.3	11.1	28.5
27	125A	5	139.8	12.7	40.2
28	150A	6	165.2	14.3	53.8
29	200A	8	216.3	18.2	89.8
30	250A	10	267.4	21.4	131
71 11 31	300A	12	318.5	25.4	185
		Schedul	-		
		_	gth 4 mtrs		1
71 11 51	15A	1/2	*21.7	4.7	1.99
52	20A	3/4	27.2	5.5	2.97
53	25A	1	34.0	6.4	4.40
54	32A	1-1/4	42.7	6.4	5.79
55	40A	1-1/2	48.6	7.1	7.34
71 11 56	50A	2	60.5	8.7	11.2
57	75A	2-1/2	76.3	9.5	15.8
58	80A	3	89.1	11.1	21.6
59	90A	3-1/2	101.6	12.7	28.1
60	100A	4	114.3	13.5	33.9
71 11 61	125A	5	139.8	15.9	49.1
62	150A	6	165.2	18.2	66.6
63	200A	8	216.3	23.0	111
64	250A	10	267.4	28.6	170
65	300A	12	318.5	33.3	237

Stainless Steel Seamless Tubes

Tubos sin Costura de Acero Inoxidable ステンレス継目無チューブ 不锈钢无缝钢管

Seamless stainless steel tube of SUS 304 TPS-C. For use in general services and tube fittings. Sold by weight at random lengths.



How to order: CODE

Stainless steel tube, seamless, OUTER DIAM mm, THICKNESS mm, LENGTH mtr

(to be continued)

Copper Tubes, Seamless

Tubo de Cobre, SinvCostura 維目無銅管 无缝铜管

Standard length: 5 mtrs.

Ref. JIS-H-3300 (C 1220) standard industrial quality. Drawn from solid copper and used for general plumbing, steam piping, etc. Furnished in straight 5 mtr length.



How to order: CODE

Copper tube, seamless, OUTER DIAM mm, THICKNESS mm, LENGTH mtr

	Size	mm	Kg Per	0005	Size	mm	Kg Per
CODE	O.D.	Т	Mtr	CODE	O.D.	Т	Mtr
71 14 01	5	0.6	0.0737	71 14 40		0.8	0.384
71 14 02		0.6	0.0905	41	18	1	0.475
03	6	0.8	0.116	42		1.2	0.563
04		1	0.140	71 14 43		0.8	0.407
71 14 05		0.6	0.0972	44		1	0.503
06	6.4	0.8	0.125	45	19	1.2	0.597
07	55.7	1	0.151	46		1.5	0.733
71 14 08		0.6	0.124	47		2	0.950
09	8	0.8	0.161	71 14 48	20	1	0.531
10	0	1	0.196	49	20	1.2	0.630
11		1.2	0.228	71 14 50		1	0.587
71 14 12		0.8	0.194	51	22	1.2	0.697
13	9.5	1	0.237	52		1.5	0.859
14		1.2	0.278	71 14 53		1	0.592
71 14 15		0.8	0.206	54	22.2	1.2	0.704
16	10	1	0.251	55		1.5	0.867
17		1.2	0.295	71 14 56		1	0.670
71 14 18		0.8	0.250	57	25	1.2	0.798
19	12	1	0.307	58		2	1.28
20	12	1.2	0.362	71 14 59		1	0.681
21		1.5	0440	60	25.4	1.2	0.811
71 14 22		0.8	0.266	61	25.4	1.5	1.00
23	12.7	1	0.327	62		2	1.31
24	12.7	1.2	0.385	71 14 63	28	1	0.754
25		1.5	0.469	64	20	1.2	0.898
71 14 26		0.8	0.295	71 14 65		1	0.860
27	14	1	0.363	66	31.8	1.2	1.03
28		1.2	0.429	67		1.5	1.27
71 14 29		0.8	0.317	71 14 68	32	1	0.866
30	15	1	0.391	69		1.2	1.03
31	1.0	1.2	0.463	71 14 70	35	1	0.950
32		1.5	0.566	71 14 71	38.1	1	1.04
71 14 33		0.8	0.317	72		1.2	1.24
34	1154	1	0.391	71 14 73	1000	2	2.40
35	10.5	1.2	0.463	74	100000	2	2.68
36		1.5	0.566	75	50.8	2	2.73
71 14 37		0.8	0.340				
38	1.000.000.00	1	0.419				
39		1.2	0.496	1			

Copper Tubes, Annealed Seamless (for Piping Refrigerating Systems)

Tubos de Cobre, Sin Costura Recocido ナマシ銅管 无缝紫铜盘管

Standard length: 10 or 20 mtrs.

Seamless and flexible tubes. Can be bent, coiled or shaped as required for installation. Tube ends can be flanged and fitted easily for any requirement.



How to order: CODE

Copper tube, annealed, OUTER DIAM mm, THICKNESS mm, LENGTH mtr

0005	Out Dia	meter	Wall Thickness	Kg
CODE	mm	in	mm	Per Mtr
71 15 01	5		1.0	0.12
02	6		1.0	0.14
03	6.35	1/4	1.0	0.15
04	8		1.0	0.2
05	9.52	3/8	1.0	0.24
71 15 06	10		1.0	0.26
07	12		1.0	0.31
08	12.7	1/2	1.0	0.33
09	15.87	5/8	1.0	0.42
10	19.05	3/4	1.0	0.51

Aluminium Tubes, Welded

Tubos de Aluminio, Soldados アルミ溶接管 铝焊接管

Standard length: 5 mtrs.

Ref. JIS-H-4090 (1050) standard industrial quality. There are for the same tube diameter several different wall thicknesses available.



3.0 0.690

How to order: CODE Aluminium tube, welded, OUTER DIAM mm, THICKNESS mm, LENGTH mtr

							t Per Lg
CODE	Out Diam mm	Diam ness Per CODE		Out Diam mm	Thick- ness mm	Kg Per Mtr	
71 16 01	6	1.0	0.043	71 16 20		1.0	0.14
71 16 02	0	1.0	0.060	21	18	1.6	0.223
03	8	1.6	0.088	22	10	2.0	0.27
71 16 04		1.0	0.077	23		2.5	0.33
05	10	1.6	0.114	71 16 24		1.0	0.16
06		2.0	0.136	25	20	1.6	0.25
71 15 07		1.0	0.094	26	20	2.0	0.30
08	12	1.6	0.142	27		2.5	0.37
09		2.0	0.171	71 16 28		1.0	0.17
71 16 10		1.0	0.111	29	22	1.6	0.27
11	14	1.6	0.170	30	22	2.0	0.34
12		2.0	0.205	31		2.5	0.41
71 16 13		1.0	0.120	71 16 32		1.0	0.20
14	15	1.6	0.183	33	25	1.6	0.31
15		2.0	0.221	34	25	2.0	0.39
71 16 16		1.0	0.128	35		2.5	0.47
17	10	1.6	0.196	71 16 36		1.0	0.24
18	16	2.0	0.238	37		1.6	0.38
19		2.5	0.287	38	30	2.0	0.47
				39		2.5	0.58
				1	1	1	1

Aluminium Brass Tubes for Condensers and Heat Exchangers

(Ref. JIS H 3300 C6872T)

アルブラ管 铝铜合金 (公制)

Newly developed high corrosion resistant aluminium brass material for use in condenser and heat exchanger tubes.

Tubos de Aluminio y de Latón para Condensadores e Intercambiadores

"ALUMIBRASS" added Ni to the ordinary contents of the so-called standard alumi brass. These tubes are used most often for various equipment in marine service including not only condensers, various heat exchangers and the heating coils, but also seawater conduits. In the case of ships, as seawater is used for cooling water, most tubes are made of alumi brass because of the very good results.

The standard sizes of the tubes are shown below. Specify size when ordering. These tubes are sold by weight.



Maximum Length & Weight

Class	Outside Diameter								
	< 20Ф	20 - 60Ф	60.1 - 90Ф	> 90Ф					
Length	40 m Max	25 m Max	10 m Max	6 m Max					
Weight	60 Kg "	60 Kg "	50 Kg "	80 Kg "					

How to order: CODE

Alumi brass tube, NOMINAL SIZE, OUT DIAM mm, THICKNESS mm, LENGTH mtr

Metric Size

					Unit Per K	
CC	DE	Nominal	O.D.	Thickness	Kg	
Unit in Kg	Unit in mtr	Size A	mm	mm	Per Mtr	
71 17 01	71 17 21	15	20	1.0	0.50	
02	22	20	25	1.5	0.98	
03	23	25	30	1.5	1.12	
04	24	32	38	1.5	1.43	
05	25	40	44.5	1.5	1.69	
71 17 06	71 17 26	50	57	1.5	2.18	

Inch Converted Metric Size

CC	DE	Nominal	O.D.	Thickness	Kg	
Unit in Kg	Unit in mtr	Size A	mm	mm	Per Mtr	
71 17 11	71 17 31	15	15.13	1.21	0.45	
12	32	20	21.48	1.21	0.65	
13	33	25	28.24	1.42	1.00	
14	34	32	34.59	1.42	1.24	
15	35	40	40.94	1.42	1.48	
71 17 16	71 17 36	50	54.05	1.62	2.24	

- Remark: 1. For delivery, please allow extra time.
 - 2. Besides above, other sizes are also available.

PVC Plastic Tubes

Tubos de Plástico PVC

硬質塩化ビニールパイプ PVC塑料管

Standard length: 4 mtrs.

Used for interior plumbing and also for soil, waste and vent lines and drainage systems. Applicable also for chemical liquids. Ref. JIS K-6741 (VP) standard industrial quality.



How to order: CODE

Tube, PVC plastic, OUTER DIAM mm, INSIDE DIAM mm, LENGTH mtr

					Unit Per Lgh
CODE	Size	Diame	eter mm	Thickness	Kg Per
CODE	mm	O.D.	I.D.	mm	4 Mtrs
71 18 01	13	18	13	2.2	0.70
02	16	22	16	2.7	1.02
03	20	26	20	2.7	1.24
04	25	32	25	3.1	1.79
05	30	38	31	3.1	2.17
71 18 06	40	48	40	3.6	3.16
07	50	60	51	4.1	4.49
08	75	89	77.4	5.5	8.81
09	100	114	100	6.6	13.64

Symbol	Ab	breviation
SGP SGPW STB STBA STBL STH	S: Steel G: Gas F S: Steel T: Tube E S: Steel T: Tube E S: Steel T: Tube E	P: Piping P: Piping W: Water B: Boiler B: Boiler A: Alloy B: Boiler L: Low Temperature B: High Pressure
STK STKM STKS STKR STL STM	S: Steel T: Tube K S: Steel T: Tube K S: Steel T: Tube L	M: Machine S: Special
	C: Core or Cas	sing R: Boring Rod
STO STPA STPG STPL STPT STPY STS	S: Steel T: Tube PS: Steel T:	D: Oil P: Piping A: Alloy P: Piping G: General P: Piping L: Low P: Piping T: Temperature P: Piping Y: P: Special
SUS-TP SUS-TB	S: Steel U: Use S: Stain S: Steel U: Use S: Stain	

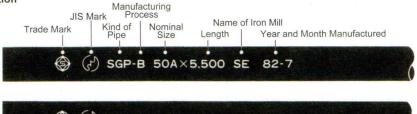
Dimensions of Welded and Seamless Steel Pipe (ANSI/ASME B36.10M)

Nominal	Outside Diameter	Sched	ule 40	Sched	lule 80	Schedi	ule 120	Schedu	ule 160
Pipe Size	inch	inch	mm	inch	mm	inch	mm	inch	mm
1/8 1/4 3/8 1/2 3/4 1 1-1/4 1-1/2 2 2-1/2 3	0.405 0.540 0.675 0.840 1.050 1.315 1.660 1.900 2.375 2.875 3.500	0.068 0.088 0.091 0.109 0.113 0.133 0.140 0.145 0.154 0.203 0.216	1.7 2.2 2.3 2.8 2.9 3.4 3.6 3.7 3.9 5.2 5.5	0.095 0.119 0.126 0.147 0.154 0.179 0.191 0.200 0.218 0.276 0.300	2.4 3.0 3.2 3.7 3.9 4.5 4.9 5.1 5.5 7.0 7.6			0.188 0.219 0.250 0.250 0.281 0.344 0.375 0.438	4.8 5.6 6.4 6.4 7.1 8.7 9.5
3-1/2 4 5 6 8 10 12 14 16 18	4.000 4.500 5.563 6.625 8.625 10.750 12.750 14.000 16.000	0.226 0.237 0.258 0.280 0.322 0.365 0.406 0.438 0.500 0.562	5.7 6.0 6.6 7.1 8.2 9.3 10.3 11.1 12.7 14.3	0.318 0.337 0.375 0.432 0.500 0.594 0.688 0.750 0.844 0.938	8.1 8.6 9.5 11.0 12.7 15.1 17.5 19.1 21.4	0.438 0.500 0.562 0.719 0.844 1.000 1.094 1.219 1.375	11.1 12.7 14.3 18.3 21.4 25.4 27.8 31.0	0.531 0.625 0.719 0.906 1.125 1.312 1.406 1.594 1.781	13.5 15.9 18.3 23.0 28.6 33.3 35.7 40.5

JIS ASTM Carbon Steel Pipe Outside Diameter Comparison and Actual Wall Thickness by Schedule Number

Nom	. Size	Actual C	DD mm			Actual Wa	all Thickn	ess by S	chedule I	Vumbers	mm.		
Α	В	JIS	ASTM	10	20	30	40	60	80	100	120	140	160
6	1/8	10.5	10.3				1.7	2.2	2.4				
8	1/4	13.8	13.7				2.2	2.4	3.0				
10	3/8	17.3	17.1				2.3	2.8	3.2				
15	1/2	21.7	21.3			((4)	2.8	3.2	3.7				4.7
20	3/4	27.2	26.7				2.9	3.4	3.9				5.5
25	1	34.0	33.4				3.4	3.9	4.5				6.4
32	1-1/4	42.7	42.2				3.6	4.5	4.9				6.4
40	1-1/2	48.6	48.3				3.7	4.5	5.1				7.1
50	2	60.5	60.3		3.2		3.9	4.9	5.5				8.7
65	2-1/2	76.3	73.0		4.5		5.2	6.0	7.0				9.5
80	3	89.1	88.9		4.5		5.5	6.6	7.6				11.1
90	3-1/2	101.6	101.6		4.5		5.7	7.0	8.1				12.7
100	4	114.3	114.3		4.9		6.0	7.1	8.6		11.1		13.5
125	5	139.8	141.3		5.1		6.6	8.1	9.5		12.7		15.9
150	6	165.2	168.3		5.5		7.1	9.3	11.0		14.3		18.2
200	8	216.3	219.1		6.4	7.0	8.2	10.3	12.7	15.1	18.2	20.6	23.0
250	10	267.4	273.1		6.4	7.8	9.3	12.7	15.1	18.2	21.4	25.4	28.6
300	12	318.5	323.9		6.4	8.4	10.3	14.3	17.4	21.4	25.4	28.6	33.3
350	14	355.6	355.6	6.4	7.9	9.5	11.1	15.1	19.0	23.8	27.8	31.8	35.7
400	16	406.4	406.4	6.4	7.9	9.5	12.7	16.7	21.4	26.2	30.9	36.5	40.5
450	18	457.2	457.2	6.4	7.9	11.1	14.3	19.0	23.8	29.4	34.9	39.7	45.2
500	20	508.0		6.4	9.5	12.7	15.1	20.6	26.2	32.5	38.1	44.4	50.0

Steel Pipe Indication





ipes & Tube

Metric Carbon Steel Tubing for Hydraulic and Pneumatic Applications DIN 2391

O.D. mm	Wall Thick mm	Working Pressure Bar*	Proof Pressure Bar*	Burst Pressure Bar*	Kg per Meter
	1	377	558	1,320	0.12
6	1.5	564	792	1,584	0.17
	2	644	966	1,932	0.19
	1	282	430	953	0.17
8	1.5	424	619	1,514	
0	2	565			0.24
			792	2,145	0.30
	1	239	370	746	0.22
10	1.5	359	538	1,170	0.31
	2	479	694	1,634	0.39
	1	199	308	612	0.27
12	1.5	299	455	953	0.39
Fig. 5	2	399	591	1,320	0.49
	1.5	256	394	804	
14					0.46
14	2	342	514	1,107	0.58
	2.5	403	604	1,209	0.71
	1	129	194	388	0.35
15	1.5	239	370	746	0.50
15	2	319	483	1,024	0.64
	2.5	376	564	1,128	0.78
	1	121	182	363	
	1.5	224			0.36
16			347	695	0.54
1.7	2	299	455	953	0.69
	2.5	374	558	1,225	0.83
	3	449	656	1,514	0.96
	1	107	161	321	0.41
	1.5	199	308	612	0.61
18	2	266	408	837	0.79
10	2.5	313			
			469	939	0.96
	3	399	591	1,320	1.11
	1.5	179	277	547	0.68
	2	239	370	746	0.89
20	2.5	299	455	953	1.08
	3	359	538	1,170	1.26
	4	479	694	1,634	1.58
	1.5				
	1.5	163	252	495	0.76
22	2	217	336	673	0.99
	2.5	272	417	858	1.20
	3	326	493	1,050	1.41
	2	191	296	586	1.13
	2.5	239	370	746	1.39
25	3	287	438	911	1.63
	4	399	595	1,259	
	1.5			1,259	2.07
	1.5	128	198	384	0.98
	2	171	264	520	1.28
28	2.5	201	301	603	1.57
	3	256	394	804	1.85
	4	302	453	906	2.37
	2	159	246	483	1.38
	2.5	199	308	612	1.70
20	3	239	370		
30				746	2.00
	4	333	504	1,024	2.57
	5	416	617	1,320	3.08
	2 2.5	142	220	411	1.63
	2.5	178	275	520	2.00
35	3	214	331	631	2.37
00	4	322	463	966	3.06
	5				
	0.5	403	604	1,209	3.70
	2.5	164	254	476	2.19
38	3	197	305	578	2.59
30	4	263	405	789	3.35
	5	328	498	1,009	4.07
	2	119	183	339	1.97
	3	171	264		
42	4			520	2.89
	4	238	367	707	3.75
	5	297	454	903	4.56
50	5	249	386	746	5.55
50	6	299	457	911	6.51
1820-21	6	249	386	746	7.99
60		270	300	140	7.99

Note: *Admissible working pressure according to DIN 2413 Type: Seamless cold drawn high pressure steel tubes

Material: Steel ST 35.4 DIN 2391

Metric Stainless Steel Tubing

ASTM A269

O.D.	Wall Thick	Working	Kg per 100 Meter	Kg per Meter
mm	mm	Pressure Bar*	Too Meter	Meter
6	1	470	12.30	0.12
0	1.5	705	16.70	0.16
	1	352	17.30	0.17
8	1.5	529	24.00	0.24
	2	705	29.60	0.29
	1	282	22.20	0.22
10	1.5	423	31.40	0.31
	2	564	39.50	0.40
	1	235	27.10	0.27
12	1.5	352	38.90	0.39
	2	470	49.30	0.49
14	1.5	294	46.20	0.46
14	2	388	59.20	0.59
15	1.5	282	49.90	0.50
15	2	376	64.10	0.64
	1.5	264	53.60	0.54
16	2	352	69.10	0.69
	2.5	440	84.50	0.85
	1.5	235	61.00	0.61
18	2	313	78.90	0.79
	2.5	333	96.70	0.97
00	2	282	88.80	0.89
20	2.5	352	107.90	1.08
00	1.5	192	75.80	0.76
22	2	256	98.60	0.98
	2	235	115.20	1.15
25	2.5	282	138.70	1.39
	3	338	163.00	1.63
	2	201	128.20	1.28
28	2.5	263	159.40	1.59
	3	302	185.00	1.85
30	2	194	152.00	1.52
30	3	282	200.00	2.00
35	2	161	163.00	1.63
35	3	241	237.00	2.37
	2	144	204.00	2.04
00	3	222	259.00	2.59
38	4	297	335.00	3.35
	5	318	594.00	5.94
	2	134	197.00	1.97
42	3	201	289.00	2.89
	4	280	380.00	3.80

Note: *Admissible working pressure according to DIN 2413 Type: Seamless stainless steel high pressure steel tubes Material: Stainless steel Type 316L Material No. 1.4404

Conversion Table

[Length]	m	km	in	ft	yd	mile
m	1	1 × 10 ⁻³	39.37	3.28	1.093	6.214 × 10 ⁻⁴
km	1 × 10 ³	1	3.937 × 10 ⁴	3,280	1,093	0.621
in	0.0254	2.54 × 10 ⁻⁵	1	1/12	1/36	1.58 × 10 ⁻⁵
ft	0.305	3.048 × 10 ⁻⁴	12	1	1/3	1.894 × 10 ⁻⁴
yd	0.914	9.144 × 10 ⁻⁴	36	3	_1	5.682 × 10 ⁻⁴
mile	1,609	1.609	63,360	5,280	1,760	1

[Mass (Weight)]	g	kg	t	lb	oz
g	1	1 × 10 ⁻³	1 × 10 ⁻⁶	2.204 × 10 ⁻³	0.0352
kg	1 × 10 ³	1	1 × 10 ⁻³	2.204	35.27
t	1 × 10 ⁶	1 × 10 ³	1	2,204	35,270
lb	453.6	0.4536	4.536 × 10 ⁻⁴	1	16
oz	28.35	0.02835	2.835 × 10 ⁻⁵	1/16	1

[Volume]	cm³ (cc or ml)	m³	1	in³	qt	pt	fl-oz	ft³	gal
cm³ (cc or ml)	1	0.000001	0.001	0.061	0.00088	0.0018	0.035	-	0.00022
m³	1,000,000	1	1,000	61,024	880	1,760	35,195	35.314	220
1	1,000	0.001	1	61.024	0.880	1.760	35.195	0.035	0.220
in³	16.387	0.000016	0.016	1	0.014	0.029	0.577	0.00058	0.0036
qt	1,136.52	0.0011	1.137	69.355	1	2	40	0.033	0.25
pt	568	0.00057	0.568	34.677	0.5	1	20	0.017	0.125
fl-oz	28.413	0.000028	0.028	1.734	0.025	0.05	1	0.0008	0.00625
Ft³	28,316	0.0283	28.316	1,728	29.922	59.844	958	1	7,481
gal	4,546	0.0045	4.546	277	4	8	160	0.134	1

[Pressure]	bar	kgf/cm²	lbf/cm ²	mmHg (0°C)	Pa (SI)
bar	1	1.020	14.50	750.1	100,000
kgf/cm²	0.9807	1	14.22	753.6	98,066
lbf/cm²	0.0689	0.0703	1	51.72	6,895
mmHg (0°C)	0.00133	0.0013	0.0193	1	133.3
Pa (SI)	1 × 10 ⁻⁵	1.02 × 10 ⁻⁵	1.45 × 10-4	10.2 × 10 ⁻⁴	1

[Stress]	Pa (SI)	MPa	kgf/mm²	kgf/cm ²
Pa (SI)	1	1 x 10 ⁻⁶	1.01972 × 10 ⁻⁷	1.01972 × 10 ⁻⁵
MPa	1 × 10 ⁶	1	1.01972 × 10 ⁻¹	1.01972 × 10
kgf/mm²	9.80665 × 10 ⁶	9.80665	1	1 x 10 ²
kgf/cm²	9.80665 × 10 ⁴	9.80665 × 10 ⁻²	1 x 10 ⁻²	1

[Force]	kW	kgf · m/sec	HP
kW	1	102.0	1.341
kgf · m/sec	0.009807	1	0.01315
HP	0.7457	76.04	1