



BETTER OIL TOOLS

50 Raffles Place # 15-05

Land Tower 048623

Singapore

www.betteroiltools.com

CATALOGUE

**PETROLEUM PIPE AND DOWN-HOLE MOTORS
MANUFACTURER AND SUPPLIER**

CASING PIPE



Casing Pipe	Outside Diameter	114.3MM - 508MM (4 1/2" -- 20")
	Wall-Thickness	5.21MM - 16.13MM (9.5PPF -- 133PPF)
	Standard	API 5CT, GB, ISO11960, GOST
	Steel Grade	H40, J55, K55, N80-1, N80-Q, L80-1, L80-9Cr, L80-13Cr, P110, Q125 etc
	Length	R1, R2, R3 (At most 12M)
	Type of Thread	BTC, LTC, STC, XC etc
	Type	Seamless Pipe, ERW

TUBING



Tubing	Outside Diameter	42.16MM – 114.3MM (1.66" – 4 1/2")
	Wall-Thickness	3.56 MM – 12.7 MM (2.3PPF – 21.5PPF)
	Standard	API 5CT, GB, ISO11960, GOST
	Steel Grade	H40, J55, K55, N80-1, N80-Q, L80-1, L80-9Cr, L80-13Cr, P110, Q125 etc
	Type of Thread	NU, EU, IJ
	Length	R1, R2
	Type	Seamless Pipe

SLOTTED LINER & SCREENING



Slotted Liner & Screening	Outside Diameter	60.3MM – 508MM (2 3/8" – 20")
	Wall-Thickness	3.56 MM – 9.52 MM (4PPF – 133PPF)
	Type of Hole	Rectangular, Square, Trapezoid, Round
	Size of Hole	Slotted: $\geq 0.07\text{mm}$, Screening: $\geq 0.5\text{MM}$
	Type of Slotted & Screening	Johnson Pipe, Pricise Punched Screen, Premium Screen
		Perforated Pipes, Sandfree Screen, Bridge Slot Screen

WIRE-WRAPPED SCREENING



The continuous-slot well screen is widely used throughout the world for water, oil, and gas wells, and is the dominant screen type used in the water well industry. We take the whole process of welding, it make sure the wire continuous integral so that the perfect gap size is realized, and have a good performance under pressure.

Wire-Wrapped Screening	Outside Diameter	25MM – 800MM
	Gap Size	0.1mm --- 3mm, According to the customer require
	Open Area	Utmost 60%
	Material	Carbon Steel, Galvanized, Stainless (304,316 etc.)
	Type of Connection	Beveled and Thread Connection
	Length	Utmost 12M

DOWNHOLE MOTOR



As a complete downhole motor manufacturer and provider specializing in the rental, servicing, and sale of downhole motors, we offer a complete range of field proven downhole motors from 1-11/16" OD to 11-1/4" OD. These include rotors, stators, couplings, radical bearing, bearing assemblies and stabilizers. Our downhole motors are available for both water-based and oilbased applications.



Steel Pipe Sales	Outside Diameter	26.7MM - 2000MM (3/4" -- 80")
	Wall-Thickness	3MM - 30MM (SCH10 -- SCHXXS)
	Standard	API 5L, GB, GOST, DIN
	Steel Grade	20#, Q235B, Q345B, Gr.B—Gr.X65
	Length	0.2M --- 12M
	Type of End	Beveled, Plain
	Type	Seamless, ERW, SAW, LASW etc



Coupling & Pup Joints	Outside Diameter	42.16 MM – 508 MM (1.66" – 20")
	Type of Thread	NU, EU, BTC, STC, LTC
	Steel Grade	H40, J55, K55, N80-1, N80-Q, L80-1, L80-9Cr, L80-13Cr, P110, Q125 etc
	Type	Seamless Pipe

RESEARCH & DEVELOPMENT



New Casing & Tubing

Our company can produce ultra high strength 00Cr9MoNi steel which has completely independent intellectual property rights. And we also research & develop tubing pipe, casing pipe and coupling with intrinsic corrosion resistance, abrasion resistance and high strength performance. Grade of performance include 55, 60, 80, 95, 110 and 130 grade. It's the upgrading product of traditional alloy steel tubing and casing.

Product Features:

- Corrosion resistance
- High Strength
- International standard thread

New Slotted Liner

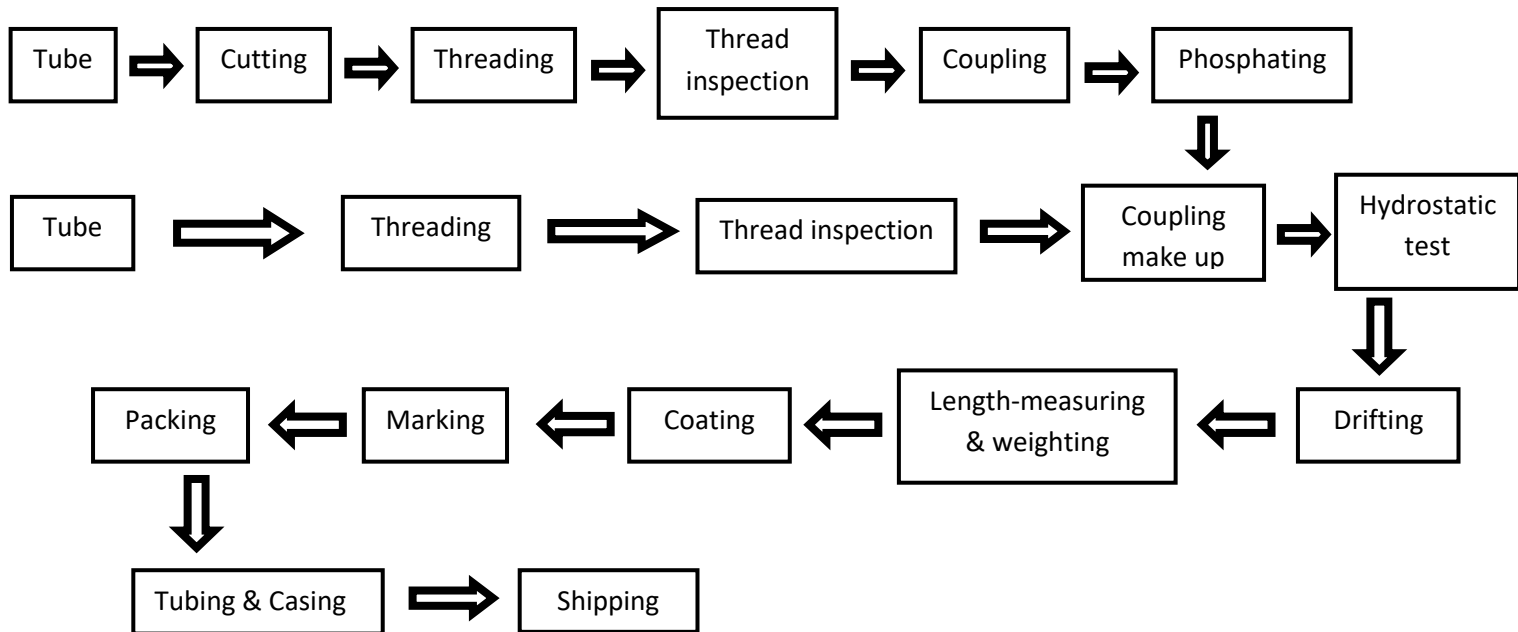
Normal slotted liner and screening is easy to be blocked during campaign and will aggressive the corrosion of slots. Our research and development department invented one kind well-used casing steel for oil and gas field.

Patent NO. is 201010560806.8. Professional naming is 00Cr9MoNi. Now we have completed the producing of new material and applied practically in several wells.

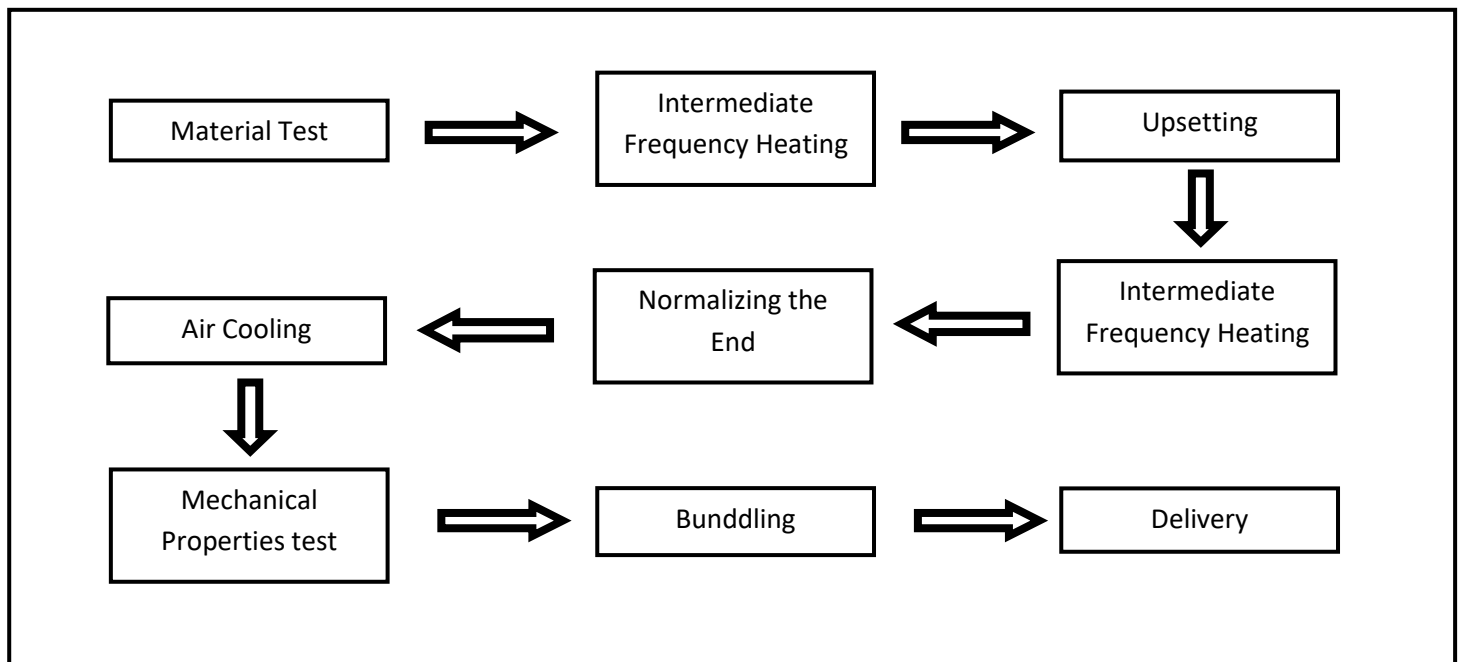
Product Features:

- Abrasion resistance
- Reusable
- High Strength

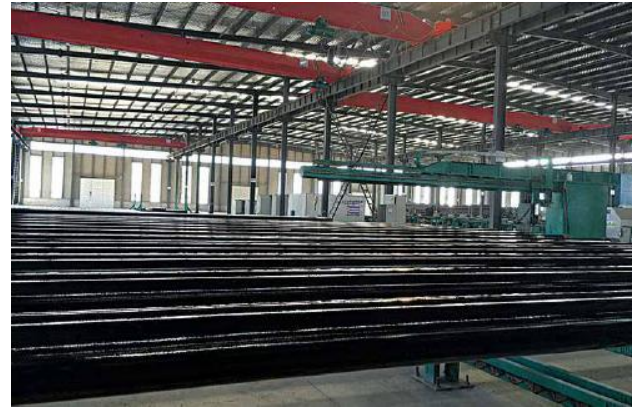
FLOW CHART OF CASING & TUBING



FLOW CHART OF UPSET TUBING



PARTS OF WORKSHOP AND EQUIPMENT



GRADE COLOUR CODES

Grade	Grade Type	Sample	Number and colour of bands for product a with length $\geq 1,8\text{m}$	Colour(s) for couplings	
				Entire coupling	Band(s) b, c
1	2		3	4	5
J55 Tubing			One bright green	Bright green	None
J55 Casing			One bright green	Bright green	One white
K55			Two bright green	Bright green	None
N80	1		One red	Red	None
N80	Q		One red, one bright green	Red	Green
L80	1		One red, one brown	Red	One Brown
L80	9Cr		One red, one brown, two yellow	Red	Two Yellow
L80	13Cr		One red, one brown, one yellow	Red	One Yellow
P110			One white	White	None
a. In the case of coupling material, unless otherwise specified on the purchase agreement, the manufacturer's internal requirements shall govern. b. Special-clearance couplings shall also have a black band. c. Seal-ring couplings shall also have a blue band.					

CHEMICAL COMPOSITION, MASS FRACTION (%)

Group	Grade	Type	C		Mn		Mo		Cr		Ni max	Cu max	P max	S max	Si max
			min	max	min	max	min	max	min	max					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	J55	-	0.34	0.39	1.25	1.5	-	-	-	-	-	-	0.030	0.030	-
	K55	-	0.34	0.39	1.25	1.5	-	-	-	-	-	-	0.030	0.030	-
	N80	1	0.34	0.38	1.45	1.7	-	-	-	-	-	-	0.030	0.030	-
	N80	Q	0.34	0.38	1.45	1.7	-	-	-	-	-	-	0.030	0.030	-
2	L80	1	-	0.43 ^a	-	1.90	-	-	-	-	0.25	0.35	0.030	0.030	0.45
	L80	9Cr	-	0.15	0.30	0.60	0.90	1.10	8.00	10.0	0.50	0.25	0.020	0.010	1.00
	L80	13Cr	0.15	0.22	0.25	1.00	-	-	12.0	14.0	0.50	0.25	0.020	0.010	1.00
3	P110	e	0.26	0.35	0.4	0.7	-	-	-	-	-	-	0.030 ^e	0.030 ^e	-

- a. The carbon content for L80 may be increased up to 0,50% maximum if the product is oil-quenched.
b. The molybdenum content for grade C90 Type 1 has no minimum tolerance if the wall thickness is less than 17,78 mm.
c. The carbon content for R95 may be increased up to 0,50% maximum if the product is oil-quenched.
d. The molybdenum content for T95 Type 1 may be decreased to 0,15% minimum if the wall thickness is less than 17,78 mm.
e. For EW Grade P110, the phosphorus content shall be 0,020% maximum and the sulfur content 0,010% maximum.
NL = no limit. Elements shown shall be reported in product analysis.

TENSILE AND HARDNESS REQUIREMENTS

Group	Grade	Type	Elongation under load %	Yield strength MPa		Tensile strength Min MPa	Hardness a max		Specified wall thickness mm	HRC
				min	max		HRC	HBW		
1	2	3	4	5	6	7	8	9	10	11
1	J55	-	0.5	379	552	517	-	-	-	-
	K55	-	0.5	379	552	655	-	-	-	-
	N80	1	0.5	552	758	689	-	-	-	-
	N80	Q	0.5	552	758	689	-	-	-	-
2	L80	1	0.5	552	655	655	23	241	-	-
	L80	9Cr	0.5	552	655	655	23	241	-	-
	L80	13Cr	0.5	552	655	655	23	241	-	-
3	P110	-	0.6	758	965	862	-	-	-	-

- a. In case of dispute, laboratory Rockwell C hardness testing shall be used as the referee method.
b. No hardness limits are specified, but the maximum variation is restricted as a manufacturing control in accordance with 7.8 & 7.9

CASING PIPE SIZE LIST (API/ISO)

Labels ^a		Outside diameter D mm	Nominal linear mass ^{b,c} Kg/m	Wall thickness t mm	Type of end-finish ^d							
1	2				H40	J55 K55	M65	L80 C95	N80 Type1, Q	C90 T95	P110	Q125
1	2	3	4	5	6	7	8	9	10	11	12	13
4-1/2	9.50	114.30	14.14	5.21	PS	PS	PS	-	-	-	-	-
4-1/2	10.50	114.30	15.63	5.69	-	PSB	PSB	-	-	-	-	-
4-1/2	11.60	114.30	17.26	6.35	-	PSLB	PLB	PLB	PLB	PLB	PLB	-
4-1/2	13.50	114.30	20.09	7.37	-	-	PLB	PLB	PLB	PLB	PLB	-
4-1/2	15.10	114.30	22.47	8.56	-	-	-	-	-	-	PLB	PLB
5	11.50	127.00	17.11	5.59	-	PS	PS	-	-	-	-	-
5	13.00	127.00	19.35	6.43	-	PSLB	PSLB	-	-	-	-	-
5	15.00	127.00	22.32	7.52	-	PSLBE	PLB	PLBE	PLBE	PLBE	PLBE	-
5	18.00	127.00	26.79	9.19	-	-	PLB	PLBE	PLBE	PLBE	PLBE	PLBE
5	21.40	127.00	31.85	11.10	-	-	PLB	PLB	PLB	PLB	PLB	PLB
5	23.20	127.00	34.53	12.14	-	-	-	PLB	PLB	PLB	PLB	PLB
5	24.10	127.00	35.86	12.70	-	-	-	PLB	PLB	PLB	PLB	PLB
5-1/2	14.00	139.70	20.83	6.20	PS	PS	PS	-	-	-	-	-
5-1/2	15.50	139.70	23.07	6.98	-	PSLBE	PSLB	-	-	-	-	-
5-1/2	17.00	139.70	25.30	7.72	-	PSLBE	PLB	PLBE	PLBE	PLBE	PLBE	-
5-1/2	20.00	139.70	29.76	9.17	-	-	PLB	PLBE	PLBE	PLBE	PLBE	-
5-1/2	23.00	139.70	34.23	10.54	-	-	PLB	PLBE	PLBE	PLBE	PLBE	PLBE
5-1/2	26.80	139.70	39.88	12.70	-	-	-	-	-	P	-	-
5-1/2	29.70	139.70	44.20	14.27	-	-	-	-	-	P	-	-
5-1/2	32.60	139.70	48.51	15.88	-	-	-	-	-	P	-	-
5-1/2	35.30	139.70	52.53	17.45	-	-	-	-	-	P	-	-
5-1/2	38.00	139.70	56.55	19.05	-	-	-	-	-	P	-	-
5-1/2	40.50	139.70	60.27	20.62	-	-	-	-	-	P	-	-
5-1/2	43.10	139.70	64.14	22.22	-	-	-	-	-	P	-	-
6-5/8	20.00	168.28	29.76	7.32	PS	PSLB	PSLB	-	-	-	-	-
6-5/8	24.00	168.28	35.72	8.94	-	PSLBE	PLB	PLBE	PLBE	PLBE	PLBE	-
6-5/8	28.00	168.28	41.67	10.59	-	-	PLB	PLBE	PLBE	PLBE	PLBE	-
6-5/8	32.00	168.28	47.62	12.06	-	-	-	PLBE	PLBE	PLBE	PLBE	PLBE
7	17.00	177.80	25.86	5.87	PS	-	-	-	-	-	-	-
7	20.00	177.80	30.06	6.91	PS	PS	PS	-	-	-	-	-
7	23.00	177.80	34.67	8.05	-	PSLBE	PLB	PLBE	PLBE	PLBE	-	-
7	26.00	177.80	39.14	9.19	-	PSLBE	PLB	PLBE	PLBE	PLBE	PLBE	-
7	29.00	177.80	43.60	10.36	-	-	PLB	PLBE	PLBE	PLBE	PLBE	-
7	32.00	177.80	47.92	11.51	-	-	PLB	PLBE	PLBE	PLBE	PLBE	-
7	35.00	177.80	52.23	12.65	-	-	-	PLBE	PLBE	PLBE	PLBE	PLBE

CASING PIPE SIZE LIST (API/ISO)

Labels ^a		Outside diameter D mm	Nominal linear mass ^{b,c} Kg/m	Wall thickness t mm	Type of end-finish ^d							
1	2				H40					H40		
1	2	3	4	5	6	7	8	9	10	11	12	13
7	38.00	177.80	56.10	13.72	-	-	-	PLBE	PLBE	PLBE	PLBE	PLBE
7	42.70	177.80	63.84	15.88	-	-	-	-	-	P	-	-
7	46.40	177.80	69.35	17.45	-	-	-	-	-	P	-	-
7	50.10	177.80	74.85	19.05	-	-	-	-	-	P	-	-
7	53.60	177.80	80.21	20.62	-	-	-	-	-	P	-	-
7	57.10	177.80	85.42	22.22	-	-	-	-	-	P	-	-
7-5/8	24.00	193.68	35.72	7.62	PS	-	-	-	-	-	-	-
7-5/8	26.40	193.68	39.29	8.33	-	PSLBE	PSLB	PLBE	PLBE	PLBE	-	-
7-5/8	29.70	193.68	44.20	9.52	-	-	PLB	PLBE	PLBE	PLBE	PLBE	-
7-5/8	33.70	193.68	50.15	10.92	-	-	PLB	PLBE	PLBE	PLBE	PLBE	-
7-5/8	39.00	193.68	58.04	12.70	-	-	-	PLBE	PLBE	PLBE	PLBE	PLBE
7-5/8	42.80	193.68	63.69	14.27	-	-	-	PLB	PLB	PLB	PLB	PLB
7-5/8	45.30	193.68	67.41	15.11	-	-	-	PLB	PLB	PLB	PLB	PLB
7-5/8	47.10	193.68	70.09	15.88	-	-	-	PLB	PLB	PLB	PLB	PLB
7-5/8	51.20	193.68	76.19	17.45	-	-	-	-	-	P	-	-
7-5/8	55.30	193.68	82.30	19.05	-	-	-	-	-	P	-	-
7-3/4	46.10	196.85	68.60	15.11	-	-	-	P	P	P	P	P
8-5/8	24.00	219.08	35.72	6.71	-	PS	PS	-	-	-	-	-
8-5/8	28.00	219.08	41.67	7.72	PS	-	PS	-	-	-	-	-
8-5/8	32.00	219.08	47.62	8.94	PS	PSLBE	PSLB	-	-	-	-	-
8-5/8	36.00	219.08	53.57	10.16	-	PSLBE	PSLB	PLBE	PLBE	PLBE	-	-
8-5/8	40.00	219.08	59.53	11.43	-	-	PLB	PLBE	PLBE	PLBE	PLBE	-
8-5/8	44.00	219.08	65.48	12.70	-	-	-	PLBE	PLBE	PLBE	PLBE	-
8-5/8	49.00	219.08	72.92	14.15	-	-	-	PLBE	PLBE	PLBE	PLBE	PLBE
9-5/8	32.30	244.48	48.07	7.92	PS	-	-	-	-	-	-	-
9-5/8	36.00	244.48	53.57	8.94	PS	PSLB	PSLB	-	-	-	-	-
9-5/8	40.00	244.48	59.53	10.03	-	PSLBE	PSLB	PLBE	PLBE	PLBE	-	-
9-5/8	43.50	244.48	64.73	11.05	-	-	PLB	PLBE	PLBE	PLBE	PLBE	-
9-5/8	47.00	244.48	69.94	11.99	-	-	PLB	PLBE	PLBE	PLBE	PLBE	PLBE
9-5/8	53.50	244.48	79.62	13.84	-	-	-	PLBE	PLBE	PLBE	PLBE	PLBE
9-5/8	58.40	244.48	86.91	15.11	-	-	-	PLB	PLB	PLB	PLB	PLB
9-5/8	59.40	244.48	88.40	15.47	-	-	-	-	-	P	-	-
9-5/8	64.90	244.48	96.58	17.07	-	-	-	-	-	P	-	-
9-5/8	70.30	244.48	104.62	18.64	-	-	-	-	-	P	-	-
9-5/8	75.60	244.48	112.50	20.24	-	-	-	-	-	P	-	-
10-3/4	32.75	273.05	48.74	7.09	PS	-	-	-	-	-	-	-
10-3/4	40.50	273.05	60.27	8.89	PS	PSB	PSB	-	-	-	-	-
10-3/4	45.50	273.05	67.71	10.16	-	PSBE	PSB	-	-	-	-	-
10-3/4	51.00	273.05	75.90	11.43	-	PSBE	PSB	PSBE	PSBE	PSBE	PSBE	-
10-3/4	55.50	273.05	82.59	12.57	-	-	PSB	PSBE	PSBE	PSBE	PSBE	-
10-3/4	60.70	273.05	90.33	13.84	-	-	-	-	-	PSBE	PSBE	PSBE
10-3/4	65.70	273.05	97.77	15.11	-	-	-	-	-	PSB	PSB	PSB

CASING PIPE SIZE LIST (API/ISO)

Labels ^a		Outside diameter D mm	Nominal linear mass ^{b,c} Kg/m	Wall thickness t mm	Type of end-finish ^d							
1	2				H40					H40		
1	2	3	4	5	6	7	8	9	10	11	12	13
10-3/4	73.20	273.05	108.93	17.07	-	-	-	-	-	P	-	-
10-3/4	79.20	273.05	117.86	18.64	-	-	-	-	-	P	-	-
10-3/4	85.30	273.05	126.94	20.24	-	-	-	-	-	P	-	-
11-3/4	42.00	298.45	62.50	8.46	PS	-	-	-	-	-	-	-
11-3/4	47.00	298.45	69.94	9.53	-	PSB	PSB	-	-	-	-	-
11-3/4	54.00	298.45	80.36	11.05	-	PSB	PSB	-	-	-	-	-
11-3/4	60.00	298.45	89.29	12.42	-	PSB	PSB	PSB	PSB	PSB	PSB	PSB
11-3/4	65.00	298.45	96.73	13.56	-	-	-	P	P	P	P	P
11-3/4	71.00	298.45	105.66	14.78	-	-	-	P	P	P	P	P
13-3/8	48.00	339.72	71.43	8.38	PS	-	-	-	-	-	-	-
13-3/8	54.50	339.72	81.10	9.65	-	PSB	PSB	-	-	-	-	-
13-3/8	61.00	339.72	90.78	10.92	-	PSB	PSB	-	-	-	-	-
13-3/8	68.00	339.72	101.19	12.19	-	PSB	PSB	PSB	PSB	PSB	PSB	-
13-3/8	72.00	339.72	107.15	13.06	-	-	-	PSB	PSB	PSB	PSB	PSB
16	65.00	406.40	96.73	9.53	PS	-	-	-	-	-	-	-
16	75.00	406.40	111.61	11.13	-	PSB	PSB	-	-	-	-	-
16	84.00	406.40	125.01	12.57	-	PSB	PSB	-	-	-	-	-
16	109.00	406.40	162.21	16.66	-	P	-	P	P	-	P	P
18-5/8	87.50	473.08	130.21	11.05	PS	PSB	PSB	-	-	-	-	-
20	94.00	508.00	139.89	11.13	PSL	PSLB	PSLB	-	-	-	-	-
20	106.50	508.00	158.49	12.70	-	PSLB	PSLB	-	-	-	-	-
20	133.00	508.00	197.93	16.13	-	PSLB	-	-	-	-	-	-

P = Plain-end, S = Short round thread, L = Long round thread, B = Buttress thread.

a. Labels are for information and assistance in ordering.

b. Nominal linear masses (col.4) are shown for information only.

c. The densities of martensitic chromium steels (L80 Types 9Cr and 13Cr) are different from carbon steels. The masses shown are therefore not accurate for martensitic chromium steels. A mass correction factor of 0,989 may be used.

d. Buttress casing is available with regular, special clearance couplings or special clearance couplings with special bevel.

TUBING SIZE LIST (API/ISO)

Labels ^a				Outside diameter D mm	Nominal linear Labels masses a,b			Wall Thick mm	Type of end-finish ^d						
1	2				Non upset T&C Kg/m	Ext.upset T&C Kg/m	Weight Kg/m		H40	J55	L80	N80 Type1,Q	C90	T95	P110
	NUT &C	EUT &C	IJ												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.050	1.14	1.20	-	26.67	1.70	1.79	-	2.87	PNUI	PNUI	PNUI	PNUI	PNUI	PNUI	-
1.050	1.48	1.54	-	26.67	2.20	2.29	-	3.91	PU	PU	PU	PU	PU	PU	PU
1.315	1.70	1.80	1.72	33.40	2.53	2.68	2.56	3.38	PNUI	PNUI	PNUI	PNUI	PNUI	PNUI	-
1.315	2.19	2.24	-	33.40	3.26	3.33	-	4.55	PU	PU	PU	PU	PU	PU	PU
1.660	2.09	-	2.10	42.16	-	-	3.13	3.18	PI	PI	-	-	-	-	-
1.660	2.30	2.40	2.33	42.16	3.42	3.57	3.47	3.56	PNUI	PNUI	PNUI	PNUI	PNUI	PNUI	-
1.660	3.03	3.07	-	42.16	4.51	4.57	-	4.85	PU	PU	PU	PU	PU	PU	PU
1.900	2.40	-	2.40	48.26	-	-	3.57	3.18	PI	PI	-	-	-	-	-
1.900	2.75	2.90	2.76	48.26	4.09	4.32	4.11	3.68	PNUI	PNUI	PNUI	PNUI	PNUI	PNUI	-
1.900	3.65	3.73	-	48.26	5.43	5.55	-	5.08	PU	PU	PU	PU	PU	PU	PU
1.900	4.42	-	-	48.26	6.58	-	-	6.35	-	-	P	-	P	P	-
1.900	5.15	-	-	48.26	7.66	-	-	7.62	-	-	P	-	P	P	-
2.063	3.24	-	3.25	52.40	-	-	4.84	3.96	PI	PI	PI	PI	PI	PI	--
2.063	4.50	-	-	52.40	-	-	-	5.72	P	P	P	P	P	P	P
2-3/8	4.00	-	-	60.32	5.95	-	-	4.24	PU	PN	PN	PN	PN	PN	-
2-3/8	4.60	4.70	-	60.32	6.85	6.99	-	4.83	PNUI	PNUI	PNUI	PNUI	PNUI	PNUI	PNUI
2-3/8	5.80	5.95	-	60.32	8.63	8.85	-	6.45	-	-	PNUI	-PNUI	PNUI	PNUI	PNUI
2-3/8	6.60	-	-	60.32	9.82	-	-	7.49	-	-	P	-	P	P	-
2-3/8	7.35	7.45	-	60.32	10.94	11.09	-	8.53	-	-	PU	-	PU	PU	-
2-7/8	6.40	6.50	-	73.02	9.52	9.67	-	5.51	PNUI	PNUI	PNUI	PNUI	PNUI	PNUI	PNUI
2-7/8	7.80	7.90	-	73.02	11.61	11.76	-	7.01	-	-	PNUI	PNUI	PNUI	PNUI	PNUI
2-7/8	8.60	8.70	-	73.02	12.80	12.95	-	7.82	-	-	PNUI	PNUI	PNUI	PNUI	PNUI
2-7/8	9.35	9.45	-	73.02	13.91	14.06	-	8.64	-	-	PU	-	PU	PU	-
2-7/8	10.50	-	-	73.02	15.63	-	-	9.96	-	-	P	-	P	P	-
2-7/8	11.50	-	-	73.02	17.11	-	-	11.18	-	-	P	-	P	P	-
3-1/2	7.70	-	-	88.90	11.46	-	-	5.49	PN	PN	PN	PN	PN	PN	-
3-1/2	9.20	9.30	-	88.90	13.69	13.84	-	6.45	PNUI	PNUI	PNUI	PNUI	PNUI	PNUI	PNUI
3-1/2	10.20	-	-	88.90	15.18	-	-	7.34	PN	PN	PN	PN	PN	PN	-
3-1/2	12.70	12.95	-	88.90	18.90	19.27	-	9.52	-	-	PNUI	PNUI	PNUI	PNUI	PNUI
3-1/2	14.30	-	-	88.90	21.28	-	-	10.92	-	-	P	-	P	P	-
3-1/2	15.50	-	-	88.90	23.07	-	-	12.09	-	-	P	-	P	P	-
3-1/2	17.00	-	-	88.90	25.30	-	-	13.46	-	-	P	-	P	P	-
4	9.50	-	-	101.60	14.14	-	-	5.74	PN	PN	PN	PN	PN	PN	-
4	10.70	11.00	-	101.60	-	16.37	-	6.65	PU	PU	PU	PU	PU	PU	-
4	13.20	-	-	101.60	19.64	-	-	8.38	-	-	P	-	P	P	-
4	16.10	-	-	101.60	23.96	-	-	10.54	-	-	P	-	P	P	-
4	18.90	-	-	101.60	28.13	-	-	12.70	-	-	P	-	P	P	-
4	22.20	-	-	101.60	33.04	-	-	15.49	-	-	P	-	P	P	-
4-1/2	12.60	12.75	-	114.30	18.75	18.97	-	6.88	PNUI	PNUI	PNUI	PNUI	PNUI	PNUI	-
4-1/2	15.20	-	-	114.30	22.62	-	-	8.56	-	-	P	-	P	P	-
4-1/2	17.00	-	-	114.30	25.30	-	-	9.65	-	-	P	-	P	P	-
4-1/2	18.90	-	-	114.30	28.13	-	-	10.92	-	-	P	-	P	P	-
4-1/2	21.50	-	-	114.30	32.00	-	-	12.70	-	-	P	-	P	P	-
4-1/2	23.70	-	-	114.30	35.27	-	-	14.22	-	-	P	-	P	P	-
4-1/2	26.10	-	-	114.30	38.84	-	-	16.00	-	-	P	-	P	P	-

P = Plain-end, N = Non-upset threaded and coupled, U = External upset threaded and coupled, I = Integral joint

a. Nominal linear masses (col. 6, 7, 8) are shown for information only.

b. The densities of martensitic chromium steels (L80 types 9Cr and 13Cr) are different from carbon steels. The masses shown are therefore not accurate for martensitic chromium steels. A mass correction factor of 0,989 may be used.

BETTER TOOLS BETTER PERFORMANCE



BETTER OIL TOOLS Ltd.

50 Raffles Place #15-05
Singapore Land Tower
Singapore 048623

www.betteroiltools.com

CONTACT US

Mobile +66 87067 7227

Email sales@betteroiltools.com