

BENKAN[®]



THAI BENKAN CO.,LTD.

58 Soi Watkrunai Bangkru Suksawat 70 Prapadaeng Samutprakarn 10130

THAILAND

Tel : 662 463-6235-7 Fax : 662 463-8241

www.thaibenkan.co.th



Company Name	THAI BENKAN CO.,LTD.	
Brand Name	BENKAN	
Address	58, Soi Watkrunai, Bangkru, Suksawat 70, Prapadaeng, Samutprakarn, 10130, Thailand	
Capital	Baht 165,094,500	
Employees	395	
Establish	August 5th, 1987	
Area	Land : 25,185 sq. meters	Building : 13,825 sq. meters
Major Equipment	Pipe cutting machine 18 Elbow bending machine 8 Elbow sizing machine 9 Reducer forming machine 5 Tee forming machine 4	Cap forming machine 1 Heat treatment furnace 3 Shot blast 7 Bevelling machine 39 Coating line 1



LOCATION



THAI BENKAN CO.,LTD

58 MOO 13 SOI WATKRUNAI, SUKSAWAT 70 RD. BANGKRU
 PHRAPRADAENG, SAMUTPRAKARN 10130, THAILAND
 TEL. 02-463-0074, 02-463-6235-7, 02-819-0410-3
 FAX, 02-463-6238, 02-463-8241

Production Range Chart



Carbon Steel (Seamless)	Type		Diameter	Wall Thickness	Remarks
A 234 WPB	Elbow Long	90,45	1/2" - 12"	STD - Sch160 / XXS	(XXS : 3/4" - 12")
		180	1/2" - 8"	STD - Sch160	(Sch160 : 11/4" - 4")
A 420 WPL6	Elbow Short	90	1" - 12"	STD - Sch160 / XXS	
		180	1" - 8"	STD - Sch160	(Sch160 : 11/2" - 6")
A 860 WPHY42	Reducer	Concentric	3/4" - 16"	STD - Sch160 / XXS	
		Eccentric			
A 860 WPHY52	Tee		1/2" - 16"	STD - Sch80 / XS	(Sch160 : 1/2" - 8") (XXS : 11/2" - 8")
	Cap		1 1/4" - 14"	STD - Sch80 / XS	(Sch120 : 4" - 8") (Sch160 / XXS : 11/2" - 6")

Stainless Steel (Seamless/Welded)	Type		Diameter	Wall Thickness	Remarks
A 403	Elbow Long	90,45	1/2" - 4"	Sch10S - Sch160 / XXS	
			5" - 16"	Sch10S - Sch80S	
WP304 / 304L	Elbow Short	90	1" - 4"	Sch10S - Sch160 / XXS	
			5" - 16"	Sch10S - Sch80S	
WP316 / 316L	Reducer	Concentric	3/4" - 16"	Sch10S - Sch160 / XXS	(Sch160 / XXS : 3/4" - 8") (Sch120 : 4" - 10")
		Eccentric			
WP S31254	Tee		1/2" - 8"	Sch10S - Sch160 / XXS	(XXS : 11/2" - 8")
			10" - 16"	Sch10S - Sch80S	
	Cap		1 1/4" - 14"	Sch10S - Sch80S	(Sch10S-Sch80S : 1 1/4" - 14") (Sch160 / XXS : 1 1/2" - 4")

Duplex Stainless Steel (Seamless/Welded)	Type		Diameter	Wall Thickness	Remarks
A 815	Elbow Long	90,45	1/2" - 16"	Sch10S - Sch80S	(Sch80S / 1/2" - 4")
S31803	Elbow Short	90	1" - 2"	Sch10S - Sch80S	
			4" - 16"		
S32205	Reducer	Concentric	3/4" - 16"	Sch10S - Sch80S	
		Eccentric			
S32750	Tee		1/2" - 12"	Sch10S - Sch80S	(Sch40S : 1/2" - 12") (Sch80S : 1/2" - 6")
	Cap		1 1/4" - 14"	Sch10S - Sch80S	(Sch10S-Sch80S : 1 1/4" - 14") (Sch160 / XXS : 1 1/2" - 4")

Alloy Steel (Seamless)	Type		Diameter	Wall Thickness	Remarks
A 234	Elbow Long	90,45	1/2" - 12"	STD - Sch160 / XXS	(XXS : 3/4" - 12")
		180	1/2" - 8"	STD - Sch160	(Sch160 / 11/4" - 4")
WP1	Elbow Short	90	1" - 12"	STD - Sch160 / XXS	
		180	1" - 8"	STD - Sch160	(Sch160 : 11/2" - 6")
WP5	Reducer	Concentric	3/4" - 16"	STD - Sch160 / XXS	
		Eccentric			
WP9	Tee		1/2" - 16"	STD - Sch80 / XS	(Sch160 : 1/2" - 8")
	Cap		1 1/4" - 14"	STD - Sch80 / XS	(XXS : 11/2" - 8")



<Applicable Standards>

ASTM	A234 A403 A420 A815 A860	Carbon & alloy steel fittings Stainless steel fittings Fittings for low temperature service Duplex stainless fittings Fittings with high tensile property
ASME	B16.9 / B16.11 / B16.25	For dimension
MSS	SP25 SP75 SP43	For marking procedure Fittings with high tensile property
JIS	B2311 / B2312 / B2313	
EN	10204 3.1	For Inspection Certificate



<Qualifications>

Name ;	Certified by;
ISO9001:2000	Lloyd's Register Quality Assurance Limited
Pressure Equipment Directive (PED 97/23/EC)	Lloyd's Register Quality Assurance Limited
JIS Mark Scheme, Certificate of Compliance	Japan Quality Assurance Organization (JOA)
Norsok M-650	Det Norske Veritas

<Approvals>

Name;	Country;
Shell Global Solutuins	Netherland
Exxon Mobil (Asia)	Singapore
Total	France
Chevron	Indonesia
Dow Chemical-Asia / Pacific	Holland
CSA	Canada
Syncrude	Canada
Aramco Overseas Company	Japan
SABIC	Saudi Arabia
KOC	Kuwait
KNPC	Kuwait
PDO	Oman



Company Standards	Carbon Steel & Alloy Steel	Stainless Steel & Duplex
Coating	Rust-preventive, Paint (black)	Pickling
Marking	Die stamping, Stencil	Electrolysis etching, Stencil
Packing	Carton box Wooden case Wooden crate Wooden pallet & Shrink pack	



Note : Company standards are subject to minor changes without prior notice.

Butt-Welding-Fittings-Weight-And-Volume

Nominal Pipe Size	WEIGHT (Kg)									
	90° Long		90° Short		Reducer		Tee		Cap	
	STD	XS	STD	XS	STD	XS	STD	XS	STD	XS
1/2	0.08	0.10	-	-	-	-	0.08	0.11	0.04	0.05
3/4	0.10	0.13	-	-	0.06	0.07	0.12	0.16	0.05	0.07
1	0.15	0.19	0.10	0.13	0.11	0.14	0.25	0.31	0.11	0.14
1-1/4	0.26	0.34	0.17	0.23	0.15	0.20	0.42	0.55	0.14	0.19
1-1/2	0.37	0.49	0.24	0.33	0.24	0.32	0.60	0.80	0.17	0.24
2	0.65	0.89	0.43	0.60	0.37	0.51	0.87	1.19	0.23	0.33
2-1/2	1.30	1.71	0.87	1.14	0.70	0.92	1.67	2.19	0.40	0.53
3	2.03	2.73	1.35	1.82	0.91	1.23	2.41	3.24	0.66	0.91
3-1/2	2.82	3.91	1.88	2.61	1.28	1.77	3.12	4.32	0.96	1.36
4	3.83	5.36	2.55	3.57	1.45	2.02	4.12	5.77	1.17	1.68
5	6.55	9.23	4.37	6.08	2.52	3.54	6.59	9.29	1.92	2.77
6	10.1	15.3	6.75	10.2	3.63	5.47	9.73	14.7	2.90	4.49
8	20.4	30.9	13.6	20.3	5.80	8.76	18.1	27.4	5.20	7.24
10	36.2	48.8	24.1	32.49	9.76	13.1	30.9	41.7	9.18	12.5
12	52.8	69.9	35.2	46.6	13.9	18.3	44.2	58.5	13.3	17.8
14	67.9	89.9	45.2	59.9	25.6	33.9	53.5	70.9	15.9	21.2
16	89.0	118.0	59.3	78.6	31.0	41.1	66.1	87.7	20.0	26.7

Nominal Pipe Size	VOLUME (m3)				
	90° Long	90° Short	Reducer	Tee	Cap
1/2	-	-	-	-	-
3/4	-	-	-	-	-
1	-	-	-	-	-
1-1/4	-	-	-	-	-
1-1/2	-	-	-	-	-
2	0.001	0.001	-	0.001	-
2-1/2	0.002	0.001	0.001	0.001	-
3	0.003	0.002	0.001	0.002	-
3-1/2	0.004	0.003	0.001	0.003	0.001
4	0.005	0.004	0.001	0.004	0.001
5	0.010	0.007	0.002	0.007	0.001
6	0.016	0.011	0.004	0.011	0.002
8	0.037	0.025	0.007	0.022	0.005
10	0.070	0.046	0.013	0.040	0.009
12	0.118	0.079	0.021	0.067	0.015
14	0.164	0.109	0.042	0.091	0.021
16	0.245	0.163	0.059	0.126	0.029

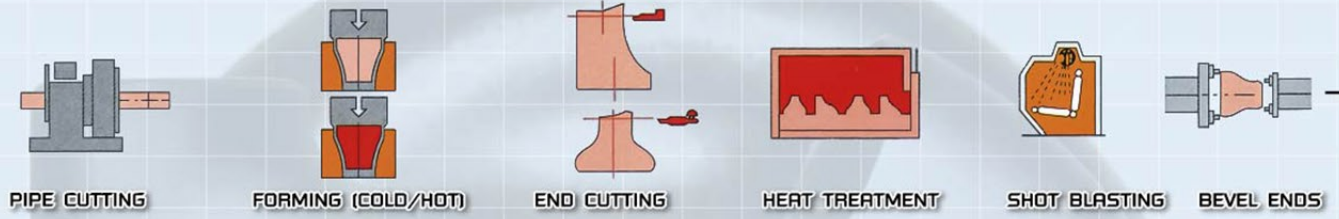
* Weight and volume are according to theoretical calculation.
* Figures of tees are on equal tees and figures of reducers are on one size reduction reducers.

CARBON Steel

ELBOW



REDUCER



TEE

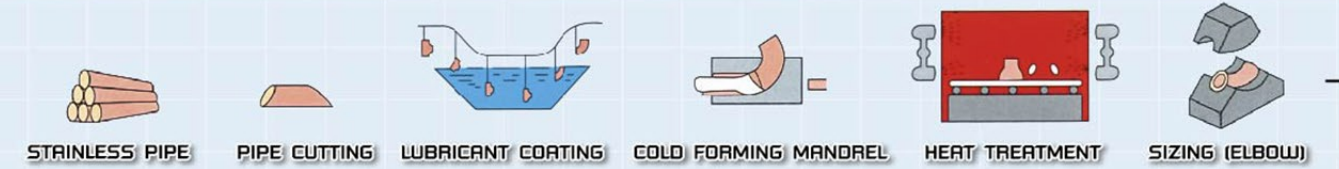


CAP



STAINLESS Steel

ELBOW



ELBOW



REDUCER



TEE



CAP



Carbon Steel & Alloy Steel**Elbow**

90°
Elbow (Long)



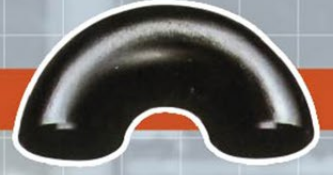
90°
Elbow (Short)



45°
Elbow (Long)



180°
Elbow (Long)



180°
Elbow (Short)

Reducer

Reducer
(Concentric)



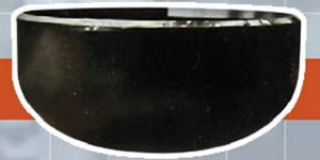
Reducer
(Eccentric)

Tee

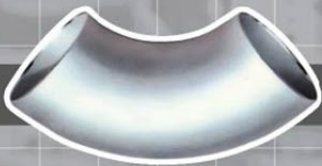
T (Straight)



T (Reducing)

Cap

Cap

Stainless Steel & Duplex**Elbow**

90°
Elbow (Long)



90°
Elbow (Short)



45°
Elbow (Long)

Reducer

Reducer
(Concentric)



Reducer
(Eccentric)

Tee

T (Straight)



T (Reducing)

Cap

Cap