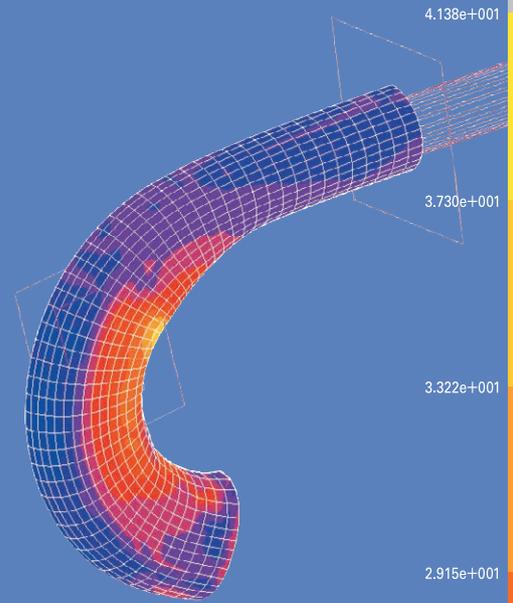


溶接式管継手 BUTT-WELDING FITTINGS

CARBON & ALLOY STEEL
STAINLESS STEEL



Awaji

淡路マテリア株式会社

目次 Contents

溶接式管継手P1
Butt-welding Fittings

管継手の規格・鋼種P2
Material Specification for Fittings

管継手の化学成分と機械的性質P3
Chemical Composition and Mechanical Property for Fittings

製造工程P4-5
Manufacturing Process

(JIS)

管継手の厚さP6-7
Wall Thickness

管継手の寸法許容差
JIS B2311, B2312, B2313 / Tolerances
管継手の直角度の許容値
TolerancesP8-9

ベベルエンドの形状・寸法
Welding end Preparation

45°エルボ(ロング)P10
Dimensions of Long Radius Elbow

90°エルボ(ロング)P11
Dimensions of Long Radius Elbow

45°エルボ(ショート)P12
Dimensions of Short Radius Elbow

90°エルボ(ショート)P13
Dimensions of Short Radius Elbow

180°エルボ(ロング・ショート)P14
Dimensions of Long & Short Radius Return

同径TP15
Dimensions of Straight Tee

径違いTP16-18
Dimensions of Reducing Tee

レジュースP19-21
Dimensions of Reducer

キャップP22
Dimensions of Cap

ラップジョイントP23
Dimensions of Lapjoint

(ASME)

管継手の厚さP24-25
Wall Thickness

管継手の寸法許容差
Tolerances
管継手の直角度の許容値
TolerancesP26-27

ベベルエンドの形状・寸法
Welding end Preparation

45°エルボ(ロング)P28
Dimensions of Long Radius Elbow

90°エルボ(ロング)P29
Dimensions of Long Radius Elbow

90°エルボ(ショート)P30
Dimensions of Short Radius Elbow

180°エルボ(ロング)P31
Dimensions of Long Radius Return

180°エルボ(ショート)P32
Dimensions of Short Radius Return

同径TP33
Dimensions of Straight Tee

径違いTP34-35
Dimensions of Reducing Tee

レジュースP36-37
Dimensions of Reducer

キャップP38
Dimensions of Cap

溶接式管継手

Butt-welding Fittings

管継手の種類 | MAIN PRODUCTS

突合せ溶接式管継手
Butt-welding Fittings

炭素鋼製 Carbon Steel

合金鋼製 Alloy Steel

ステンレス鋼製 Stainless Steel

90°エルボ 90°Elbow	ロング Long		ショート Short		
45°エルボ 45°Elbow	ロング Long		ショート Short		
180°エルボ 180°Elbow	ロング Long		ショート Short		
T(ティー) Tee	同径 Straight		径違い Reducing		
レジュース Reducer	同心 Concentric		偏心 Eccentric		
キャップ Cap	キャップ Cap		ラップジョイント Lap joint	ラップジョイント Lap joint	

管継手の規格・鋼種 / MATERIAL SPECIFICATION FOR FITTINGS

JIS

- JIS B 2311 一般配管用鋼製突合せ溶接式管継手
- JIS B 2312 配管用鋼製突合せ溶接式管継手
- JIS B 2313 配管用鋼板製突合せ溶接式管継手

ASME

- ASME B 16.9 Factory-Made Wrought Butt Welding Fittings

ASTM

- A234 Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and High Temperature Service
- A420 Piping Fittings of Wrought Carbon Steel and Alloy Steel for Low-Temperature Service
- A403 Wrought Austenitic Stainless Steel Piping Fittings
- A960 Standard Specification for Common Requirements for Wrought Steel Piping Fittings

	JIS		ASTM		
	規格	種類の記号		Code	Grade
		鋼管製	鋼板製 B2313		
炭素鋼 Carbon Steel	JIS B2311	FSGP	-	-	-
		PY400	-	-	-
	JIS B2312 JIS B2313	PG370	PG370W	A234	WPB
		PS410	PS410W		WPC
		PS480	PS480W		WPB
		PT370	PT370W		WPC
		PT410	PT410W	A420	WPL6
		PT480	PT480W		
		PL380	PL380W		
		PL380	PL380W		
合金鋼 Alloy Steel	JIS B2312 JIS B2313	PA12	PA12W	A234	WP1
		PA22	PA22W		WP12CL1
		PA23	PA23W		WP11CL1
		PA24	PA24W		WP22CL1
		PA25	PA25W	A420	WP5
		PA26	PA26W		WP9
		PL450	PL450W		WPL3
		PL690	PL690W		WPL8
ステンレス鋼 Stainless Steel (Excerpt)	JIS B2312 JIS B2313	SUS304	SUS304W	A403	WP304
		SUS304H	-		WP304H
		SUS304L	SUS304LW		WP304L
		SUS309S	SUS309SW		WP309
		SUS310S	SUS310SW		WP310
		SUS316	SUS316W		WP316
		SUS316H	-		WP316H
		SUS316L	SUS316LW		WP316L
		SUS321	SUS321W		WP321
SUS347	SUS347W	WP347			

注) JIS規格とASTM規格は同一ではありません。

Note: JIS Standard and ASTM Standard is not identical

管継手の化学成分と機械的性質 / CHEMICAL COMPOSITION AND MECHANICAL PROPERTY FOR FITTINGS

JIS (EXCERPT)

JIS	材料による種類の記号	鋼管規格		化学成分(最大値 または 範囲)								機械的性質(最小値)			
		規格	種類の記号	C %	Si %	Mn %	P %	S %	Ni %	Cr %	Mo %	引張強さ N/mm ²	降伏点 又は耐力 N/mm ²	伸び ※1 縦方向 横方向 % %	
JIS B2311	FSGP	JIS G 3452 配管用炭素鋼管	SGP	-	-	-	0.040	0.040	-	-	-	290	-	30	25
	PY400	JIS G 3457 配管用アーク溶接炭素鋼管	STPY400	0.25	-	-	0.040	0.040	-	-	-	400	225	-	18
JIS B2312	PG370	JIS G 3454 圧力配管用炭素鋼管	STPG370	0.25	0.35	0.30-0.90	0.040	0.040	-	-	-	370	215	30	25
			STPG410	0.30	0.35	0.30-1.00	0.040	0.040	-	-	-	410	245	25	20
	-	JIS G 3455 高圧配管用炭素鋼管	STS370	0.25	0.10-0.35	0.30-1.10	0.035	0.035	-	-	-	370	215	30	25
			STS410	0.30	0.10-0.35	0.30-1.40	0.035	0.035	-	-	-	410	245	25	20
			STS480	0.33	0.10-0.35	0.30-1.50	0.035	0.035	-	-	-	480	275	25	20
	PT370	JIS G 3456 高温配管用炭素鋼管	STPT370	0.25	0.10-0.35	0.30-0.90	0.035	0.035	-	-	-	370	215	30	25
	PT410		STPT410	0.30	0.10-0.35	0.30-1.00	0.035	0.035	-	-	-	410	245	25	20
	PT480		STPT480	0.33	0.10-0.35	0.30-1.00	0.035	0.035	-	-	-	480	275	25	20
	PL380	JIS G 3460 低温配管用鋼管	STPL380	0.25	0.35	1.35	0.035	0.035	-	-	-	380	205	35	25
	-	JIS G 3458 配管用合金鋼管	STPA12	0.10-0.20	0.10-0.50	0.30-0.80	0.035	0.035	-	-	0.45-0.65	380	205	30	25
			STPA20	0.10-0.20	0.10-0.50	0.30-0.60	0.035	0.035	-	0.50-0.80	0.40-0.65	410	205	30	25
			STPA22	0.15	0.50	0.30-0.60	0.035	0.035	-	0.80-1.25	0.45-0.65	410	205	30	25
			STPA23	0.15	0.50-1.00	0.30-0.60	0.030	0.030	-	1.00-1.50	0.45-0.65	410	205	30	25
			STPA24	0.15	0.50	0.30-0.60	0.030	0.030	-	1.90-2.60	0.87-1.13	410	205	30	25
			STPA25	0.15	0.50	0.30-0.60	0.030	0.030	-	4.00-6.00	0.45-0.65	410	205	30	25
			STPA26	0.15	0.25-1.00	0.30-0.60	0.030	0.030	-	8.00-10.00	0.90-1.10	410	205	30	25
PL450			JIS G 3460 低温配管用鋼管	STPL450	0.18	0.10-0.35	0.30-0.60	0.030	0.030	3.20-3.80	-	-	450	245	30
PL690	STPL690	0.13		0.10-0.35	0.90	0.030	0.030	8.50-9.50	-	-	690	520	21	15	
SUS304	JIS G 3459 配管用ステンレス鋼管	SUS304TP	0.08	1.00	2.00	0.045	0.030	8.00-11.00	18.00-20.00	-	520	205	35	25	
SUS304L		SUS304LTP	0.030	1.00	2.00	0.045	0.030	9.00-13.00	18.00-20.00	-	480	175	35	25	
SUS316		SUS316TP	0.08	1.00	2.00	0.045	0.030	10.00-14.00	16.00-18.00	2.00-3.00	520	205	35	25	
SUS316L		SUS316LTP	0.030	1.00	2.00	0.045	0.030	12.00-16.00	16.00-18.00	2.00-3.00	480	175	35	25	

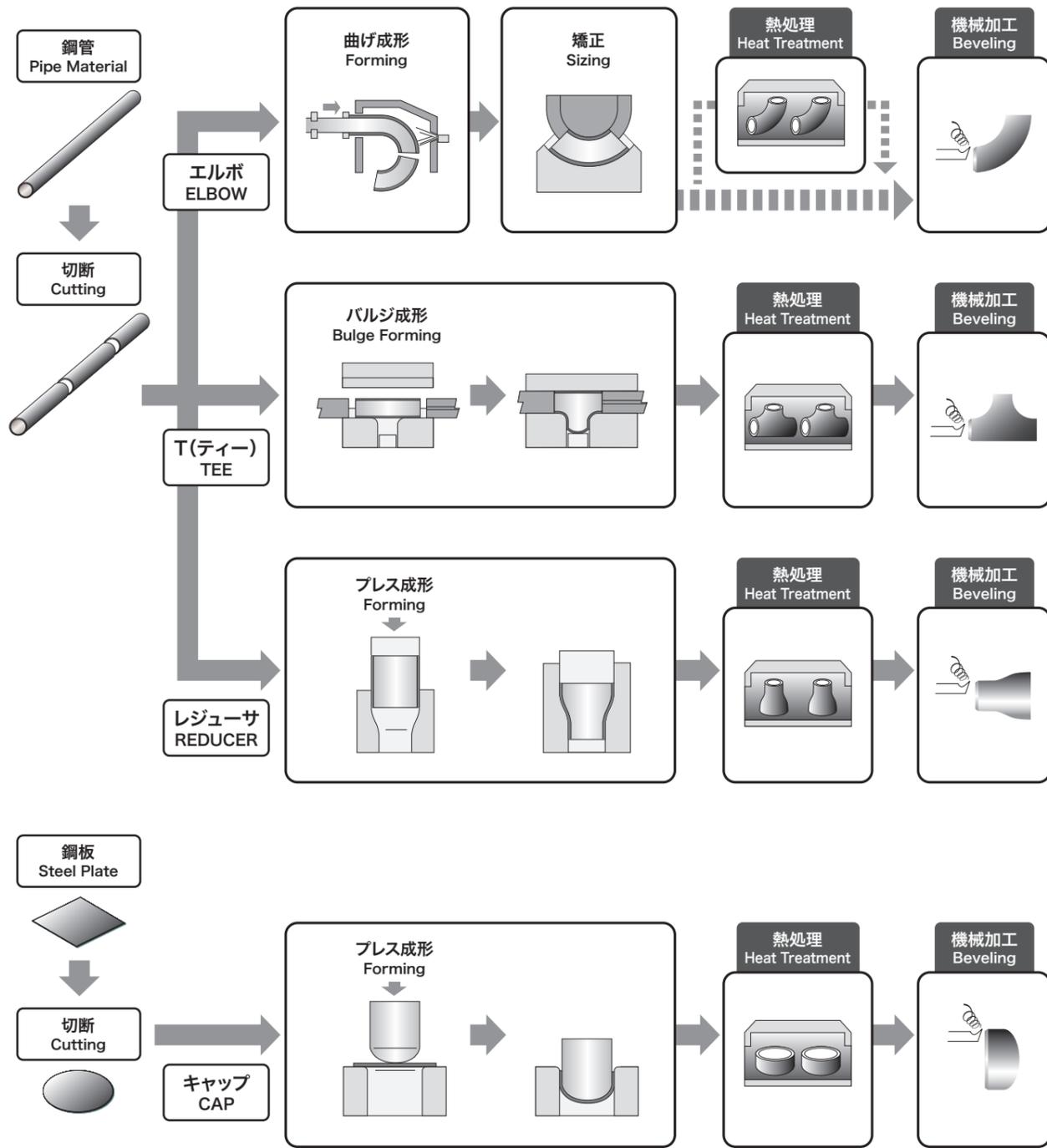
※1: 機械的性質の伸びは、縦方向はJIS11号または12号試験片による値、横方向はJIS1A号、5号試験片による値。
(例外的にJIS4号試験片などを使用する場合があります)

ASTM (EXCERPT)

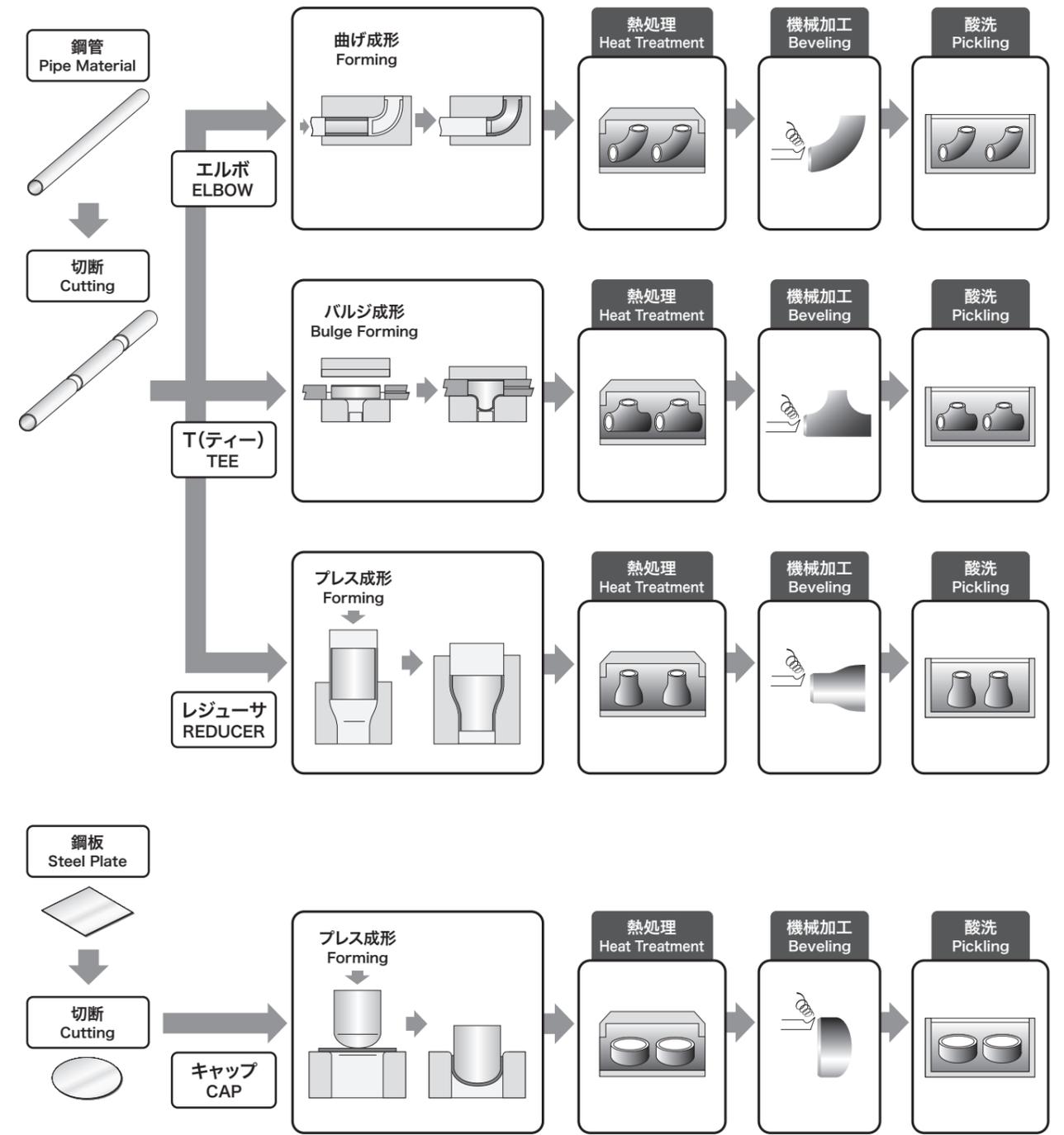
ASTM	Grade	CHEMICAL COMPOSITION											MECHANICAL PROPERTY (MINIMUM)			Code	Grade
		C %	Mn %	P %	S %	Si %	Cr %	Mo %	Ni %	Cu %	V %	Nb (Cb) %	Tensile Strength	Yield Strength	Elongation		
A234	WPB	0.30max	0.29-1.06	0.050max	0.058max	0.10min	0.40max	0.15max	0.40max	0.40max	0.08max	-	415	240	30	A106	Gr. B
	WPC	0.35max	0.29-1.06	0.050max	0.058max	0.10min	0.40max	0.15max	0.40max	0.40max	0.08max	-	485	275	30		Gr. C
	WP1	0.28max	0.30-0.90	0.045max	0.045max	0.10-0.50	-	0.44-0.65	-	-	-	-	380-550	205	30	A335	P1
	WP12CL1	0.05-0.20	0.30-0.80	0.045max	0.045max	0.60max	0.80-1.25	0.44-0.65	-	-	-	-	415	220	30		P12
	WP11CL1	0.05-0.15	0.30-0.60	0.030max	0.030max	0.50-1.00	1.00-1.50	0.44-0.65	-	-	-	-	415	205	30		P11
	WP22CL1	0.05-0.15	0.30-0.60	0.040max	0.040max	0.50max	1.90-2.60	0.87-1.13	-	-	-	-	415	205	30		P22
	WP5CL1	0.15max	0.30-0.60	0.040max	0.030max	0.50max	4.0-6.0	0.44-0.65	-	-	-	-	415	205	30		P5
	WP9CL1	0.15max	0.30-0.60	0.030max	0.030max	1.00max	8.0-10.0	0.90-1.10	-	-	-	-	415	205	30		P9
	A420	WPL6	0.30max	0.50-1.35	0.035max	0.040max	0.15-0.40	0.30max	0.12max	0.40max	0.40max	0.08max	0.02max	415-655	240		30
WPL3		0.20max	0.31-0.64	0.05max	0.05max	0.13-0.37	-	-	3.2-3.8	-	-	-	450-620	240	30	Gr. 3	
WPL8		0.13max	0.90max	0.030max	0.030max	0.13-0.37	-	-	8.4-9.6	-	-	-	690-865	515	22	Gr. 8	
A403	WP304	0.08max	2.00max	0.045max	0.030max	1.00max	18.0-20.0	-	8.0-11.0	-	-	-	515	205	28	A312	TP304
	WP304L	0.03max	2.00max	0.045max	0.030max	1.00max	18.0-20.0	-	8.0-12.0	-	-	-	485	170	28		TP304L
	WP316	0.08max	2.00max	0.045max	0.030max	1.00max	16.0-18.0	2.00-3.00	10.0-14.0	-	-	-	515	205	28		TP316
	WP316L	0.03max	2.00max	0.045max	0.030max	1.00max	16.0-18.0	2.00-3.00	10.0-14.0	-	-	-	485	170	28		TP316L

※2: Rectangular specimen for wall thickness 5/16 in. [7.94mm] and over, and for all small sizes tested in full section; min % in 2 in. [50mm]

炭素鋼、合金鋼製溶接式管継手 | CARBON & ALLOY STEEL FITTINGS



ステンレス製溶接式管継手 | STAINLESS STEEL FITTINGS



JIS 管継手の厚さ / WALL THICKNESS

単位: mm

径の呼び		外径		呼び厚さ														外径		径の呼び						
				炭素鋼、合金鋼の厚さ								呼び厚さ										ステンレス鋼の厚さ				
				B2311	B2311、B2313			JIS B2312				その他の厚さ*1										B2312、B2313				
A	B	JIS	(ASME)*4	FSGP	LG	STD	XS	Sch40	Sch80	Sch120	Sch160	Sch10	Sch20	Sch30	Sch60	Sch100	Sch140	Sch5S	Sch10S	Sch20S	Sch40	Sch80	JIS	(ASME)*4	A	B
15	1/2	21.7	21.3	2.8	-	-	-	2.8	3.7	-	4.7	-	-	-	3.2	-	-	1.65	2.1	2.5	2.8	3.7	21.7	21.3	15	1/2
20	3/4	27.2	26.7	2.8	-	-	-	2.9	3.9	-	5.5	-	-	-	3.4	-	-	1.65	2.1	2.5	2.9	3.9	27.2	26.7	20	3/4
25	1	34.0	33.4	3.2	-	-	-	3.4	4.5	-	6.4	-	-	-	3.9	-	-	1.65	2.8	3.0	3.4	4.5	34.0	33.4	25	1
32	1-1/4	42.7	42.2	3.5	-	-	-	3.6	4.9	-	6.4	-	-	-	4.5	-	-	1.65	2.8	3.0	3.6	4.9	42.7	42.2	32	1-1/4
40	1-1/2	48.6	48.3	3.5	-	-	-	3.7	5.1	-	7.1	-	-	-	4.5	-	-	1.65	2.8	3.0	3.7	5.1	48.6	48.3	40	1-1/2
50	2	60.5	60.3	3.8	-	-	-	3.9	5.5	-	8.7	-	3.2	-	4.9	-	-	1.65	2.8	3.5	3.9	5.5	60.5	60.3	50	2
65	2-1/2	76.3	73.0	4.2	-	-	-	5.2	7.0	-	9.5	-	4.5	-	6.0	-	-	2.1	3.0	3.5	5.2	7.0	76.3	73.0	65	2-1/2
80	3	89.1	88.9	4.2	-	-	-	5.5	7.6	-	11.1	-	4.5	-	6.6	-	-	2.1	3.0	4.0	5.5	7.6	89.1	88.9	80	3
90	3-1/2	101.6	101.6	4.2	-	-	-	5.7	8.1	-	-	-	4.5	-	7.0	-	-	2.1	3.0	4.0	5.7	8.1	101.6	101.6	90	3-1/2
100	4	114.3	114.3	4.5	-	-	-	6.0	8.6	11.1	13.5	-	4.9	-	7.1	-	-	2.1	3.0	4.0	6.0	8.6	114.3	114.3	100	4
125	5	139.8	141.3	4.5	-	-	-	6.6	9.5	12.7	15.9	-	5.1	-	8.1	-	-	2.8	3.4	5.0	6.6	9.5	139.8	141.3	125	5
150	6	165.2	168.3	5.0	5.0	-	-	7.1	11.0	14.3	18.2	-	5.5	-	9.3	-	-	2.8	3.4	5.0	7.1	11.0	165.2	168.3	150	6
175	7	190.7	-	5.3	-	-	-	*2(8.2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	190.7	-	175	7
200	8	216.3	219.1	5.8	5.8	-	-	8.2	12.7	18.3	23.0	-	6.4	7.0	10.3	15.1	20.6	2.8	4.0	6.5	8.2	12.7	216.3	219.1	200	8
225	9	241.8	-	6.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	241.8	-	225	9
250	10	267.4	273.0	6.6	6.6	-	-	9.3	15.1	21.4	28.6	-	6.4	7.8	12.7	18.3	25.4	3.4	4.0	6.5	9.3	15.1	267.4	273.0	250	10
300	12	318.5	323.8	6.9	6.9	-	-	10.3	17.4	25.4	33.3	-	6.4	8.4	14.3	21.4	28.6	4.0	4.5	6.5	10.3	17.4	318.5	323.8	300	12
350	14	355.6	355.6	7.9	7.9	*3(9.5)	*3(12.7)	11.1	19.0	27.8	35.7	6.4	7.9	9.5	15.1	23.8	31.8	4.0	5.0	8.0	11.1	19.1	355.6	355.6	350	14
400	16	406.4	406.4	7.9	7.9	*3(9.5)	*3(12.7)	12.7	21.4	30.9	40.5	6.4	7.9	9.5	16.7	26.2	36.5	4.5	5.0	8.0	12.7	21.4	406.4	406.4	400	16
450	18	457.2	457	7.9	7.9	*3(9.5)	*3(12.7)	14.3	23.8	34.9	45.2	6.4	7.9	11.1	19.0	29.4	39.7	4.5	5.0	8.0	14.3	23.8	457.2	457	450	18
500	20	508.0	508	7.9	7.9	9.5	*3(12.7)	15.1	26.2	38.1	50.0	6.4	9.5	12.7	20.6	32.5	44.4	5.0	5.5	9.5	15.1	26.2	508.0	508	500	20
550	22	558.8	559	*2(7.9)	7.9	9.5	12.7	15.9	28.6	41.3	54.0	6.4	9.5	12.7	22.2	34.9	47.6	5.0	5.5	9.5	15.9	28.6	558.8	559	550	22
600	24	609.6	610	*2(7.9)	7.9	9.5	12.7	17.5	31.0	46.0	59.5	6.4	9.5	14.3	24.6	38.9	52.4	5.5	6.5	9.5	17.5	31.0	609.6	610	600	24
650	26	660.4	660	-	7.9	9.5	12.7	18.9	34.0	49.1	64.2	7.9	12.7	-	26.4	41.6	56.6	5.5	8.0	12.7	18.9	34.0	660.4	660	650	26
700	28	711.2	711	-	7.9	9.5	12.7	-	-	-	-	-	-	-	-	-	-	5.5	8.0	12.7	-	-	711.2	711	700	28
750	30	762.0	762	-	7.9	9.5	12.7	-	-	-	-	-	-	-	-	-	-	6.5	8.0	12.7	-	-	762.0	762	750	30
800	32	812.8	813	-	7.9	9.5	12.7	-	-	-	-	-	-	-	-	-	-	-	8.0	12.7	-	-	812.8	813	800	32
850	34	863.6	864	-	7.9	9.5	12.7	-	-	-	-	-	-	-	-	-	-	-	8.0	12.7	-	-	863.6	864	850	34
900	36	914.4	914	-	7.9	9.5	12.7	-	-	-	-	-	-	-	-	-	-	-	8.0	12.7	-	-	914.4	914	900	36
950	38	965.2	965	-	7.9	9.5	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	965.2	965	950	38
1000	40	1016.0	1016	-	7.9	9.5	12.7	-	-	-	-	-	-	-	-	-	-	-	9.5	14.3	-	-	1016.0	1016	1000	40
1050	42	1066.8	1067	-	-	9.5	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1066.8	1067	1050	42
1100	44	1117.6	1118	-	-	9.5	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1117.6	1118	1100	44
1150	46	1168.4	1168	-	-	9.5	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1168.4	1168	1150	46
1200	48	1219.2	1219	-	-	9.5	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1219.2	1219	1200	48

*1: 鋼管規格のJIS G3454, G3455, G3456, G3458 及び G3460 によります。

*2: 淡路マテリアルの社内規定によります。

*3: JIS B2313 に適応します。

*4: ASME 外径寸法は参考です。

JIS 管継手の寸法許容差 / JIS B2311, B2312, B2313 / TOLERANCES

単位: mm

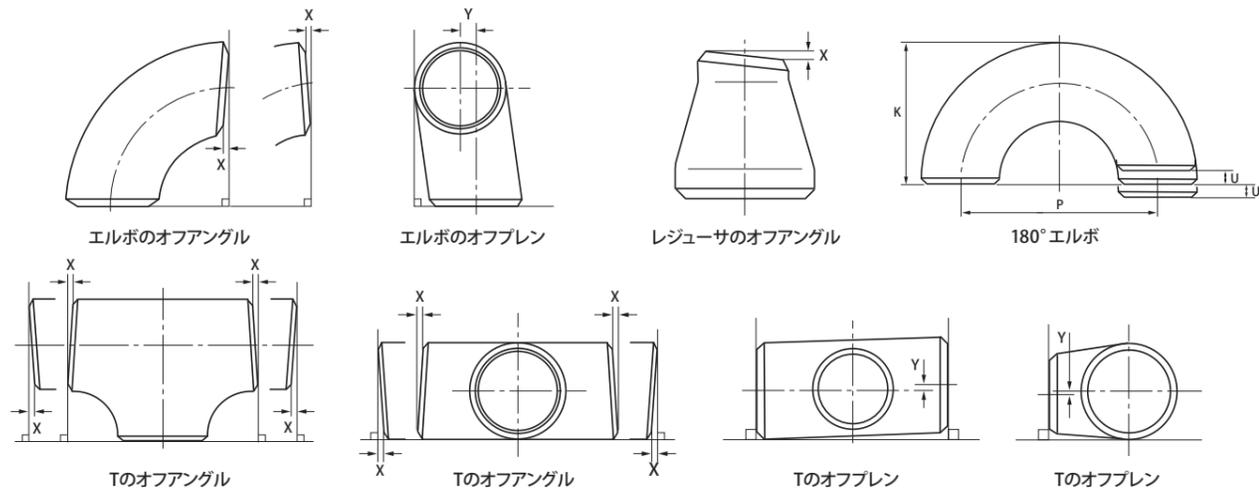
項目	管継手の種類	JIS B2311 (FSGP, PY400の管継手)								JIS B2312, B2313 (FSGP, PY400以外の管継手)																	
		径の呼び								径の呼び																	
		A	15~65	80~100	125~200	250~450	500~600	650~750	800~1200	A	15~65	80~100	125~200	250~450	500~600	650~750	800~1200										
		B	1/2~2 1/2	3~4	5~8	10~18	20~24	26~30	32~48	B	1/2~2 1/2	3~4	5~8	10~18	20~24	26~30	32~48										
		許容差								許容差																	
端部の外径 (φD)	すべての管継手	±2.0				±2.5				±3.5				+5.0 -4.5				+1.6 -0.8		±1.6		+2.4 -1.6		+4.0 -3.2		+6.4 -4.8	
端面の内径		±2.0				±2.5				±3.5				±4.5				±4.8									
厚さ (t)		+規定しない -15%								+規定しない -12.5%																	
中心から端面までの距離 (H,F)	45°エルボ、90°エルボ	±2.0				±3.2				±4.8				±1.6		±2.4		±3.2		±4.8							
中心から中心までの距離 (P)	180°エルボ	±6.4				±9.5				-				±6.4		±9.5		-									
背から端面までの距離 (K)		±6.4				-				±6.4				-													
端面と端面とのずれ (U) (最大)		1.6				3.2				-				1.6		3.2		-									
端面から端面までの距離 (H)	レジャーサ	±2.0				±3.2				±4.8				±1.6		±2.4		±4.8									
中心から端面までの距離 (C,M)	T (ティー)	±2.0				±3.2				±4.8				±1.6		±2.4		±3.2		±4.8							
背から端面までの距離 (E)	キャップ	±3.2				±6.4				-				±3.2		±6.4		±9.5									
端部の外周長	すべての管継手	-								±0.5%				-				±0.5%									

注1: レジャーサのH及び径違いTのM寸法の許容差は、大径側の許容差を適用する。
注2: 白管継手の垂鉛めつき付着部は、めつき前に適用する。

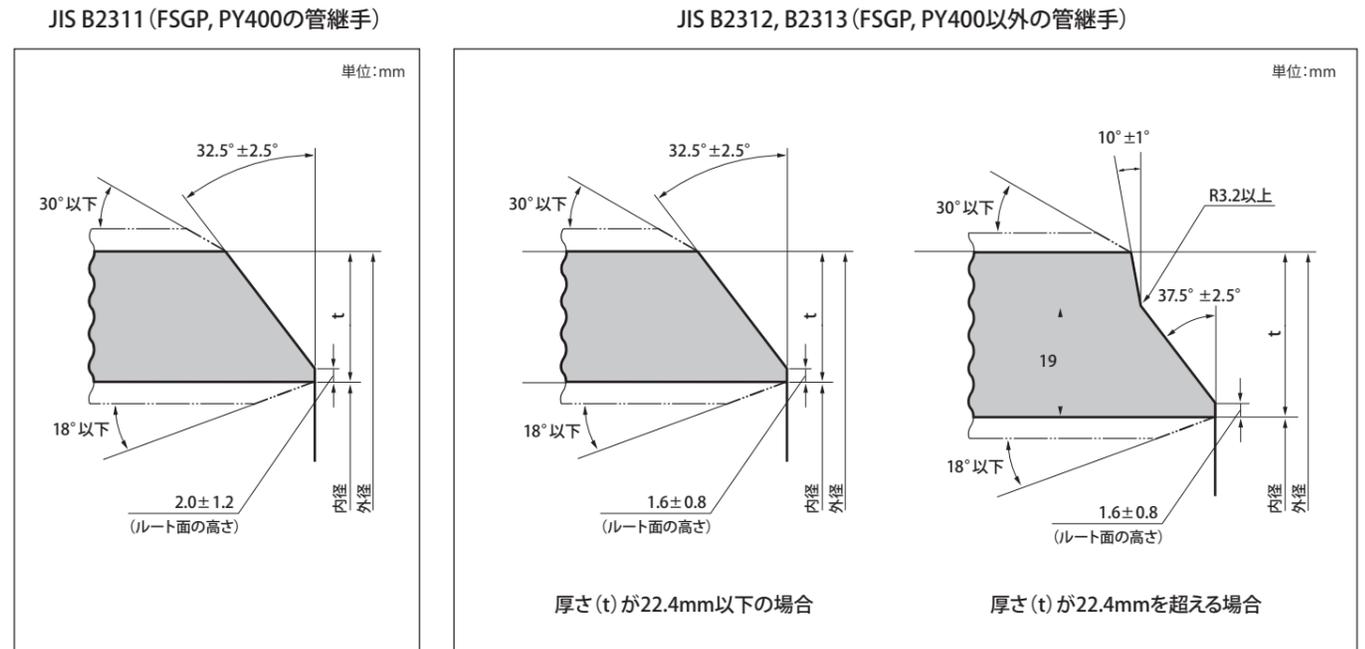
JIS 管継手の直角度の許容値 / TOLERANCES

項目	管継手の種類	径の呼び								
		A	15~100	125~200	250~300	350~400	450~600	650~750	800~1050	1100~1200
		B	1/2~4	5~8	10~12	14~16	18~24	26~30	32~42	44~48
		許容値								
オフアングル (X)	エルボ、レジャーサ、T	0.8	1.6	2.4	3.2	4.8				
オフプレ (Y)	エルボ、T	1.6	3.2	4.8	6.4	9.5	12.7	19.1		

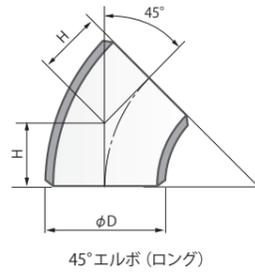
注1: レジャーサ及び径違いTの直角度の許容値は、大径側の許容値を適用する。
注2: 白管継手の垂鉛めつき付着部は、めつき前に適用する。



JIS ベベルエンドの形状・寸法 / WELDING END PREPARATION



JIS 45°エルボ(ロング)の形状・寸法・重量 / DIMENSIONS OF LONG RADIUS ELBOW

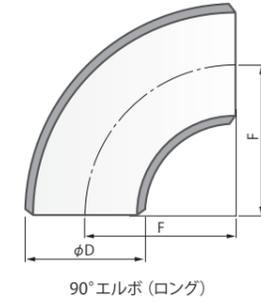


45°エルボ(ロング)

径の呼び		外径 単位:mm	中心から 端面まで の距離 単位:mm	概略重量(炭素鋼、合金鋼) 単位:kg											概略重量(ステンレス鋼) 単位:kg				
A	B			呼び厚さ											呼び厚さ				
		φD	H	FSGP	Sch40	Sch80	Sch120	Sch160	Sch10	Sch20	Sch30	7.9(LG)	STD	XS	Sch10S	Sch20S	Sch40	Sch80	Sch160
15	1/2	21.7	15.8	0.039	0.039	0.049	-	0.059	-	-	-	-	-	-	0.030	0.035	0.040	0.050	0.060
20	3/4	27.2	15.8	0.050	0.052	0.067	-	0.088	-	-	-	-	-	-	0.045	0.050	0.055	0.068	0.090
25	1	34.0	15.8	0.073	0.077	0.098	-	0.130	-	-	-	-	-	-	0.065	0.070	0.080	0.100	0.130
32	1 1/4	42.7	19.7	0.126	0.130	0.171	-	0.214	-	-	-	-	-	-	0.105	0.110	0.132	0.175	0.215
40	1 1/2	48.6	23.7	0.175	0.184	0.246	-	0.327	-	-	-	-	-	-	0.150	0.160	0.186	0.250	0.330
50	2	60.5	31.6	0.318	0.326	0.446	-	0.660	-	0.326	-	-	-	-	0.250	0.300	0.329	0.450	0.670
65	2 1/2	76.3	39.5	0.559	0.683	0.898	-	1.170	-	0.683	-	-	-	-	0.460	0.530	0.685	0.905	1.180
80	3	89.1	47.3	0.790	1.020	1.370	-	1.910	-	1.020	-	-	-	-	0.640	0.765	1.030	1.385	2.090
90	3 1/2	101.6	55.3	1.060	1.410	1.960	-	2.920	-	1.410	-	-	-	-	0.810	1.055	1.455	1.975	3.050
100	4	114.3	63.1	1.460	1.920	2.680	3.380	4.010	-	1.920	-	-	-	-	1.090	1.365	1.940	2.710	4.080
125	5	139.8	78.9	2.250	3.240	4.570	6.000	7.270	-	3.240	-	-	-	-	1.980	2.605	3.275	4.610	7.300
150	6	165.2	94.7	3.550	4.970	7.510	9.550	11.80	-	4.970	-	-	-	-	2.850	3.855	5.100	7.600	12.00
200	8	216.3	126.3	7.210	10.10	15.30	21.30	26.30	-	10.10	10.10	-	-	-	5.150	8.150	10.10	15.40	-
250	10	267.4	157.8	12.70	17.70	28.10	39.00	50.40	-	17.70	17.70	-	-	-	8.150	12.70	17.85	28.40	-
300	12	318.5	189.4	19.00	28.10	46.40	65.90	84.10	-	28.10	28.10	-	-	-	14.20	18.90	28.35	46.85	-
350	14	355.6	220.9	28.40	39.50	66.10	94.10	118.0	34.20	34.20	34.20	-	-	-	18.30	29.00	39.90	67.00	-
400	16	406.4	252.5	37.20	59.40	97.30	137.0	175.0	44.90	44.90	44.90	37.20	44.50	59.00	36.05	57.35	90.35	98.00	-
450	18	457.2	284.1	47.20	84.10	137.0	196.0	247.0	56.90	56.90	56.90	47.10	56.50	75.50	38.63	48.20	-	-	-
500	20	508.0	315.6	58.30	110.0	186.0	264.0	338.0	70.50	70.50	93.40	58.30	70.00	93.00	41.20	70.60	-	-	-
550	22	558.8	347.2	(70.60)	133.0	246.0	347.0	442.0	85.00	83.70	112.5	70.50	84.50	113.0	49.90	85.60	-	-	-
600	24	609.6	378.7	(102.0)	182.0	317.0	459.0	580.0	102.0	102.0	184.0	84.10	101.0	134.0	70.10	102.0	-	-	-
650	26	660.4	410.3	-	-	-	-	-	-	-	-	99.00	119.0	158.0	101.2	159.4	-	-	-
700	28	711.2	441.9	-	-	-	-	-	-	-	-	115.0	138.0	184.0	117.4	185.2	-	-	-
750	30	762.0	473.4	-	-	-	-	-	-	-	-	132.0	158.0	211.0	134.9	212.8	-	-	-
800	32	812.8	505.0	-	-	-	-	-	-	-	-	150.0	180.0	240.0	153.6	242.4	-	-	-
850	34	863.6	536.6	-	-	-	-	-	-	-	-	170.0	204.0	272.0	173.5	273.9	-	-	-
900	36	914.4	568.1	-	-	-	-	-	-	-	-	190.0	228.0	304.0	194.6	307.3	-	-	-
950	38	965.2	599.7	-	-	-	-	-	-	-	-	212.0	255.0	339.0	-	-	-	-	-
1000	40	1016.0	631.2	-	-	-	-	-	-	-	-	235.0	282.0	376.0	285.1	427.1	-	-	-
1050	42	1066.8	662.8	-	-	-	-	-	-	-	-	259.0	311.0	414.0	-	-	-	-	-
1100	44	1117.6	694.4	-	-	-	-	-	-	-	-	285.0	342.0	456.0	-	-	-	-	-
1150	46	1168.4	725.9	-	-	-	-	-	-	-	-	312.0	374.0	498.0	-	-	-	-	-
1200	48	1219.2	757.5	-	-	-	-	-	-	-	-	339.0	407.0	542.0	-	-	-	-	-

*:()は淡路マテリア社内規定による肉厚7.9mmの概略重量です。

JIS 90°エルボ(ロング)の形状・寸法・重量 / DIMENSIONS OF LONG RADIUS ELBOW



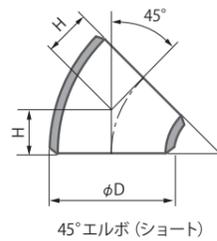
90°エルボ(ロング)

径の呼び		外径 単位:mm	中心から 端面まで の距離 単位:mm	概略重量(炭素鋼、合金鋼) 単位:kg											概略重量(ステンレス鋼) 単位:kg				
A	B			呼び厚さ											呼び厚さ				
		φD	F	FSGP	Sch40	Sch80	Sch120	Sch160	Sch10	Sch20	Sch30	7.9(LG)	STD	XS	Sch10S	Sch20S	Sch40	Sch80	Sch160
15	1/2	21.7	38.1	0.078	0.078	0.098	-	0.118	-	-	-	-	-	-	0.060	0.070	0.080	0.100	0.120
20	3/4	27.2	38.1	0.101	0.104	0.134	-	0.176	-	-	-	-	-	-	0.090	0.100	0.110	0.135	0.180
25	1	34.0	38.1	0.145	0.154	0.196	-	0.261	-	-	-	-	-	-	0.130	0.140	0.160	0.200	0.255
32	1 1/4	42.7	47.6	0.253	0.260	0.342	-	0.428	-	-	-	-	-	-	0.210	0.220	0.263	0.350	0.425
40	1 1/2	48.6	57.2	0.350	0.368	0.492	-	0.653	-	-	-	-	-	-	0.300	0.320	0.372	0.500	0.658
50	2	60.5	76.2	0.636	0.652	0.893	-	1.330	-	0.652	-	-	-	-	0.500	0.600	0.658	0.900	1.340
65	2 1/2	76.3	95.3	1.120	1.360	1.790	-	2.340	-	1.360	-	-	-	-	0.920	1.060	1.370	1.810	2.360
80	3	89.1	114.3	1.580	2.040	2.740	-	3.830	-	2.040	-	-	-	-	1.280	1.530	2.060	2.770	3.870
90	3 1/2	101.6	133.4	2.110	2.820	3.910	-	5.830	-	2.820	-	-	-	-	1.620	2.110	2.910	3.950	5.890
100	4	114.3	152.4	2.920	3.840	5.370	6.760	8.030	-	3.840	-	-	-	-	2.180	2.730	3.880	5.420	8.110
125	5	139.8	190.5	4.490	6.490	9.130	12.00	14.50	-	6.490	-	-	-	-	3.960	5.210	6.550	9.220	14.60
150	6	165.2	228.6	7.090	9.940	15.00	19.10	23.70	-	9.940	-	-	-	-	5.700	7.710	10.20	15.20	24.00
175	7	-	-	10.20	*1(15.5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200	8	216.3	304.8	14.40	20.10	30.50	42.60	52.50	-	20.10	20.10	-	-	-	10.30	16.30	20.20	30.80	-
250	10	267.4	381.0	25.40	35.40	56.20	77.70	101.0	-	35.40	35.40	-	-	-	16.30	25.40	35.70	56.80	-
300	12	318.5	457.2	38.10	56.20	92.80	132.0	168.0	-	56.20	56.20	-	-	-	28.40	37.80	56.70	93.70	-
350	14	355.6	533.4	56.80	79.00	132.0	188.0	236.0	68.10	68.10	68.10	-	-	-	36.60	58.00	79.80	134.0	-
400	16	406.4	609.6	74.30	118.0	195.0	274.0	350.0	89.20	89.20	89.20	74.30	89.00	118.0	72.10	114.7	180.7	196.0	-
450	18	457.2	685.8	94.30	168.0	274.0	391.0	495.0	113.0	113.0	150.0	94.20	113.0	150.0	77.25	127.9	-	-	-
500	20	508.0	762.0	117.0	220.0	373.0	528.0	676.0	140.0	140.0	186.0	116.0	140.0	186.0	82.40	141.2	-	-	-
550	22	558.8	838.2	(141.0)	267.0	492.0	694.0	885.0	170.0	170.0	225.0	141.0	169.0	225.0	99.80	171.2	-	-	-
600	24	609.6	914.4	(202.0)	365.0	633.0	918.0	1160.0	202.0	202.0	366.0	168.0	202.0	268.0	140.3	204.0	-	-	-
650	26	660.4	990.6	-	-	-	-	-	-	-	-	198.0	237.0	315.0	202.3	318.9	-	-	-
700	28	711.2	1066.8	-	-	-	-	-	-	-	-	230.0	276.0	367.0	234.9	370.3	-	-	-
750	30	762.0	1143.0	-	-	-	-	-	-	-	-	264.0	316.0	421.0	269.8	425.6	-	-	-
800	32	812.8	1219.2	-	-	-	-	-	-	-	-	301.0	361.0	480.0	307.2	484.8	-	-	-
850	34	863.6	1295.4	-	-	-	-	-	-	-	-	340.0	408.0	543.0	347.0	547.8	-	-	-
900	36	914.4	1371.6	-	-	-	-	-	-	-	-	380.0	457.0	608.0	389.2	614.7	-	-	-
950	38	965.2	1447.8	-	-	-	-	-	-	-	-	425.0	510.0	679.0	-	-	-	-	-
1000	40	1016.0	1524.0	-	-	-	-	-	-	-	-	471.0	565.0	753.0	570.3	854.3	-	-	-
1050	42	1066.8	1600.2	-	-	-	-	-	-	-	-	518.0	622.0	828.0	-	-	-	-	-
1100	44	1117.6	1676.4	-	-	-	-	-	-	-	-	570.0	684.0	912.0	-	-	-	-	-
1150	46	1168.4	1752.6	-	-	-	-	-	-	-	-	623.0	748.0	997.0	-	-	-	-	-
1200	48	1219.2	1828.8	-	-	-	-	-	-	-	-	677.0	814.0	1085.0	-	-	-	-	-

*:()は淡路マテリア社内規定による肉厚7.9mmの概略重量です。

*1:淡路マテリア社内規定による肉厚8.2mmの概略重量です。

JIS 45°エルボ(ショート)の形状・寸法・重量 / DIMENSIONS OF SHORT RADIUS ELBOW

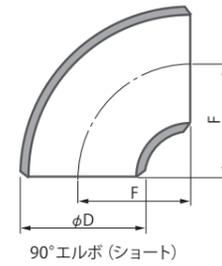


45°エルボ(ショート)

径の呼び		外径 単位:mm	中心から 端面まで の距離 単位:mm	概略重量(炭素鋼、合金鋼) 単位:kg										
A	B			呼び厚さ										
		φD	H	FSGP	Sch40	Sch80	Sch120	Sch160	Sch10	Sch20	Sch30	7.9(LG)	STD	XS
25	1	34.0	-	0.048	0.051	-	-	-	-	-	-	-	-	-
32	1 1/4	42.7	-	0.084	0.086	-	-	-	-	-	-	-	-	-
40	1 1/2	48.6	15.8	0.116	0.122	0.163	-	0.217	-	-	-	-	-	-
50	2	60.5	21.0	0.212	0.217	0.297	-	0.443	-	0.217	-	-	-	-
65	2 1/2	76.3	26.3	0.372	0.454	0.595	-	0.780	-	0.454	-	-	-	-
80	3	89.1	31.6	0.525	0.680	0.915	-	1.280	-	0.680	-	-	-	-
90	3 1/2	101.6	36.8	0.705	0.940	1.300	-	1.940	-	0.940	-	-	-	-
100	4	114.3	42.1	0.970	1.280	1.790	2.250	2.680	-	1.280	-	-	-	-
125	5	139.8	52.6	1.500	2.160	3.040	3.970	4.840	-	2.160	-	-	-	-
150	6	165.2	63.1	2.360	3.310	5.000	6.370	7.900	-	3.310	-	-	-	-
200	8	216.3	84.2	4.800	6.700	10.20	14.20	17.50	-	6.700	6.700	-	-	-
250	10	267.4	105.2	8.450	11.80	18.70	25.90	33.60	-	11.80	11.80	-	-	-
300	12	318.5	126.2	12.70	18.70	30.90	43.90	56.00	-	18.70	18.70	-	-	-
350	14	355.6	147.3	18.90	26.30	44.00	62.70	78.50	22.70	22.70	22.70	-	-	-
400	16	406.4	168.3	24.80	39.30	65.00	91.30	116.0	29.70	29.70	29.70	24.80	29.50	39.20
450	18	457.2	189.4	31.40	62.50	91.50	130.0	165.0	33.70	33.70	50.00	31.40	37.60	50.00
500	20	508.0	210.4	38.80	73.00	124.0	176.0	225.0	46.70	46.70	62.00	38.80	46.60	61.90
550	22	558.8	231.5	(47.10)	88.80	164.0	231.0	295.0	56.50	56.50	75.10	47.10	56.40	75.00
600	24	609.6	252.5	(67.50)	122.0	212.0	306.0	387.0	67.50	67.50	112.0	56.10	67.30	89.50
650	26	660.4	273.5	-	-	-	-	-	-	-	-	65.90	79.10	105.0
700	28	711.2	294.6	-	-	-	-	-	-	-	-	76.50	91.80	122.0
750	30	762.0	315.6	-	-	-	-	-	-	-	-	87.80	105.0	140.0
800	32	812.8	336.7	-	-	-	-	-	-	-	-	100.0	120.0	160.0
850	34	863.6	357.7	-	-	-	-	-	-	-	-	113.0	136.0	180.0
900	36	914.4	378.7	-	-	-	-	-	-	-	-	127.0	152.0	202.0
950	38	965.2	399.8	-	-	-	-	-	-	-	-	141.0	170.0	226.0
1000	40	1016.0	420.8	-	-	-	-	-	-	-	-	157.0	188.0	250.0
1050	42	1066.8	441.9	-	-	-	-	-	-	-	-	172.0	208.0	276.0
1100	44	1117.6	462.9	-	-	-	-	-	-	-	-	190.0	228.0	304.0
1150	46	1168.4	484.0	-	-	-	-	-	-	-	-	-	-	-
1200	48	1219.2	505.0	-	-	-	-	-	-	-	-	226.0	272.0	362.0

*:()は淡路マテリア社内規定による肉厚7.9mmの概略重量です。

JIS 90°エルボ(ショート)の形状・寸法・重量 / DIMENSIONS OF SHORT RADIUS ELBOW

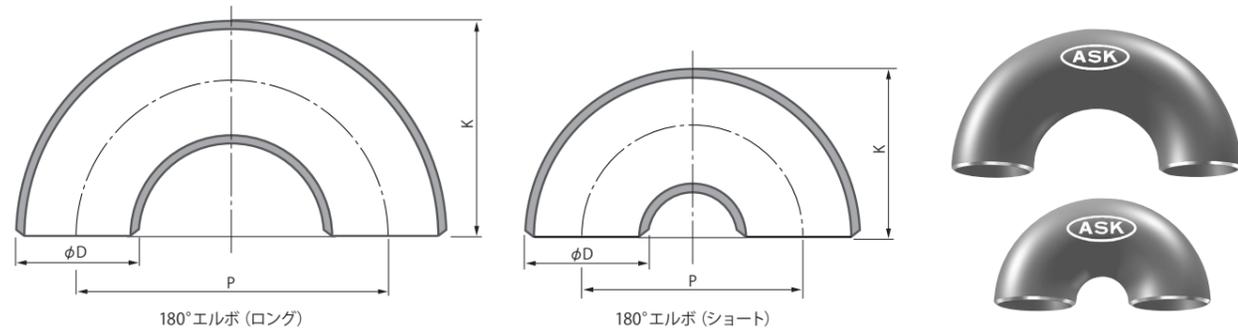


90°エルボ(ショート)

径の呼び		外径 単位:mm	中心から 端面まで の距離 単位:mm	概略重量(炭素鋼、合金鋼) 単位:kg											概略重量(ステンレス鋼) 単位:kg				
A	B			呼び厚さ											呼び厚さ				
		φD	F	FSGP	Sch40	Sch80	Sch120	Sch160	Sch10	Sch20	Sch30	7.9(LG)	STD	XS	Sch10S	Sch20S	Sch40	Sch80	Sch160
25	1	34.0	25.4	0.097	0.102	0.131	-	0.174	-	-	-	-	-	-	0.090	0.103	0.103	0.150	0.200
32	1 1/4	42.7	31.8	0.169	0.173	0.228	-	0.286	-	-	-	-	-	-	0.145	0.175	0.175	0.260	0.280
40	1 1/2	48.6	38.1	0.233	0.245	0.327	-	0.435	-	-	-	-	-	-	0.200	0.220	0.248	0.330	0.440
50	2	60.5	50.8	0.424	0.434	0.595	-	0.887	-	0.434	-	-	-	-	0.400	0.400	0.440	0.600	0.890
65	2 1/2	76.3	63.5	0.745	0.909	1.190	-	1.560	-	0.909	-	-	-	-	0.570	0.700	0.920	1.150	1.580
80	3	89.1	76.2	1.050	1.360	1.830	-	2.560	-	1.360	-	-	-	-	0.800	1.100	1.370	1.840	2.580
90	3 1/2	101.6	88.9	1.410	1.880	2.610	-	3.890	-	1.880	-	-	-	-	1.100	1.700	1.900	2.630	3.930
100	4	114.3	101.6	1.940	2.560	3.580	5.360	5.360	-	2.560	-	-	-	-	1.400	2.000	2.590	3.600	5.400
125	5	139.8	127.0	3.000	4.320	6.090	9.690	9.690	-	4.320	-	-	-	-	2.720	3.310	4.360	6.230	9.800
150	6	165.2	152.4	4.730	6.630	10.00	15.80	15.80	-	6.630	-	-	-	-	4.070	4.780	6.700	10.30	16.00
200	8	216.3	203.2	9.610	13.40	20.40	28.40	35.00	-	13.40	13.40	-	-	-	6.700	10.85	13.55	20.50	35.40
250	10	267.4	254.0	16.90	23.60	37.50	51.80	67.20	-	23.60	23.60	-	-	-	10.40	17.00	23.80	37.80	67.90
300	12	318.5	304.8	25.40	37.50	61.90	87.90	112.0	-	37.50	37.50	-	-	-	16.70	25.00	37.90	62.50	113.2
350	14	355.6	355.6	37.80	52.70	88.10	125.0	157.0	45.40	45.40	45.40	-	-	-	24.40	49.50	53.20	89.40	-
400	16	406.4	406.4	49.60	78.70	130.0	183.0	233.0	59.50	59.50	59.50	49.50	59.10	78.30	31.90	50.70	79.50	131.0	-
450	18	457.2	457.2	62.90	125.0	183.0	261.0	330.0	75.50	75.50	100.0	62.80	75.30	99.90	40.50	64.30	-	-	-
500	20	508.0	508.0	77.70	146.0	248.0	352.0	451.0	93.40	93.40	124.0	77.70	93.10	124.0	54.90	94.10	-	-	-
550	22	558.8	558.8	(94.20)	178.0	328.0	463.0	590.0	113.0	113.0	150.2	94.10	113.0	150.0	66.50	114.1	-	-	-
600	24	609.6	609.6	(135.0)	243.0	422.0	612.0	773.0	135.0	135.0	244.0	112.0	135.0	179.0	93.50	136.0	-	-	-
650	26	660.4	660.4	-	-	-	-	-	-	-	-	132.0	158.0	210.0	134.9	212.6	-	-	-
700	28	711.2	711.2	-	-	-	-	-	-	-	-	154.0	184.0	245.0	156.6	246.9	-	-	-
750	30	762.0	762.0	-	-	-	-	-	-	-	-	176.0	211.0	281.0	179.9	283.8	-	-	-
800	32	812.8	812.8	-	-	-	-	-	-	-	-	201.0	241.0	320.0	204.8	323.2	-	-	-
850	34	863.6	863.6	-	-	-	-	-	-	-	-	227.0	272.0	362.0	231.3	365.2	-	-	-
900	36	914.4	914.4	-	-	-	-	-	-	-	-	253.0	304.0	405.0	259.5	409.8	-	-	-
950	38	965.2	965.2	-	-	-	-	-	-	-	-	283.0	340.0	453.0	-	-	-	-	-
1000	40	1016.0	1016.0	-	-	-	-	-	-	-	-	314.0	377.0	502.0	380.2	569.5	-	-	-
1050	42	1066.8	1066.8	-	-	-	-	-	-	-	-	346.0	416.0	554.0	-	-	-	-	-
1100	44	1117.6	1117.6	-	-	-	-	-	-	-	-	380.0	456.0	608.0	-	-	-	-	-
1150	46	1168.4	1168.4	-	-	-	-	-	-	-	-	415.0	499.0	665.0	-	-	-	-	-
1200	48	1219.2	1219.2	-	-	-	-	-	-	-	-	452.0	543.0	724.0	-	-	-	-	-

*:()は淡路マテリア社内規定による肉厚7.9mmの概略重量です。

JIS 180°エルボ (ロング・ショート) の形状・寸法・重量 / DIMENSIONS OF LONG & SHORT RADIUS RETURN



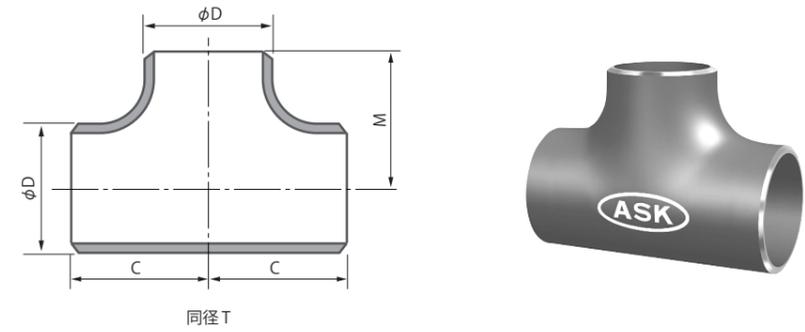
180°エルボ ロング

径の呼び		外径 単位:mm	中心から中心 までの距離 単位:mm	背から背面 までの距離 単位:mm	概略重量(炭素鋼、合金鋼) 単位:kg							
A	B	φD	P	K	呼び厚さ							
					FSGP	Sch40	Sch80	Sch120	Sch160	Sch10	Sch20	Sch30
15	1/2	21.7	76.2	49.0	0.156	0.156	0.196	-	0.236	-	-	-
20	3/4	27.2	76.2	51.7	0.202	0.208	0.268	-	0.352	-	-	-
25	1	34.0	76.2	55.1	0.290	0.308	0.392	-	0.522	-	-	-
32	1 1/4	42.7	95.2	69.0	0.506	0.520	0.684	-	0.856	-	-	-
40	1 1/2	48.6	114.4	81.5	0.700	0.736	0.984	-	1.310	-	-	-
50	2	60.5	152.4	106.5	1.270	1.300	1.790	-	2.660	-	1.300	-
65	2 1/2	76.3	190.6	133.5	2.240	2.720	3.580	-	4.680	-	2.720	-
80	3	89.1	228.6	158.9	3.160	4.080	5.480	-	7.660	-	4.080	-
90	3 1/2	101.6	266.8	184.2	4.220	5.640	7.820	-	11.70	-	5.640	-
100	4	114.3	304.8	209.6	5.840	7.680	10.80	13.50	16.10	-	7.680	-
125	5	139.8	381.0	260.4	8.980	13.00	18.30	23.80	29.00	-	13.00	-
150	6	165.2	457.2	311.2	14.20	19.90	30.00	38.20	47.40	-	19.90	-
200	8	216.3	609.6	413.0	28.80	40.20	71.00	85.10	105.0	-	40.20	40.20
250	10	267.4	762.0	514.7	50.80	70.80	113.0	155.0	202.0	-	70.80	70.80
300	12	318.5	914.4	616.5	76.20	112.0	186.0	264.0	336.0	-	112.0	112.0
350	14	355.6	1066.8	711.2	114.0	158.0	264.0	376.0	472.0	136.0	136.0	136.0
400	16	406.4	1219.2	812.8	149.0	236.0	390.0	548.0	700.0	178.0	178.0	178.0

180°エルボ ショート

径の呼び		外径 単位:mm	中心から中心 までの距離 単位:mm	背から背面 までの距離 単位:mm	概略重量(炭素鋼、合金鋼) 単位:kg							
A	B	φD	P	K	呼び厚さ							
					FSGP	Sch40	Sch80	Sch120	Sch160	Sch10	Sch20	Sch30
15	1/2	-	-	-	-	-	-	-	-	-	-	-
20	3/4	-	-	-	-	-	-	-	-	-	-	-
25	1	34.0	50.8	42.4	0.194	0.204	0.262	-	0.348	-	-	-
32	1 1/4	42.7	63.6	53.2	0.338	0.346	0.456	-	0.572	-	-	-
40	1 1/2	48.6	76.2	62.4	0.466	0.490	0.654	-	0.870	-	-	-
50	2	60.5	101.6	81.1	0.848	0.867	1.190	-	1.770	-	0.867	-
65	2 1/2	76.3	127.0	101.7	1.490	1.820	2.380	-	3.120	-	1.820	-
80	3	89.1	152.4	120.8	2.100	2.720	3.660	-	5.120	-	2.720	-
90	3 1/2	101.6	177.8	139.7	2.820	3.760	5.220	-	7.780	-	3.760	-
100	4	114.3	203.2	158.8	3.880	5.120	7.160	9.010	10.70	-	5.120	-
125	5	139.8	254.0	196.9	6.000	8.640	12.20	15.90	19.40	-	8.640	-
150	6	165.2	304.8	235.0	9.460	13.30	20.00	25.50	31.60	-	13.30	-
200	8	216.3	406.4	311.4	19.20	26.80	40.80	56.70	70.00	-	26.80	26.80
250	10	267.4	508.0	387.7	33.80	47.20	75.00	104.0	135.0	-	47.20	47.20
300	12	318.5	609.6	464.1	50.80	75.00	124.0	176.0	224.0	-	75.00	75.00
350	14	355.6	711.2	533.4	75.60	106.0	176.0	251.0	314.0	90.80	90.80	90.80
400	16	406.4	812.8	609.6	99.20	158.0	260.0	365.0	466.0	119.0	119.0	119.0

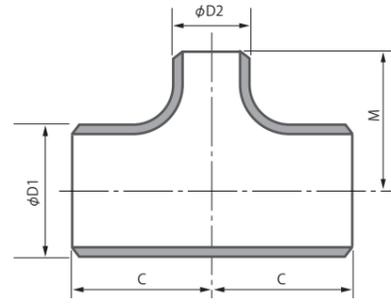
JIS 同径 T の形状・寸法・重量 / DIMENSIONS OF STRAIGHT TEE



径の呼び		外径 単位:mm	中心から端面 までの距離 単位:mm	概略重量(炭素鋼、合金鋼) 単位:kg													概略重量(ステンレス鋼) 単位:kg					
A	B	φD	C	M	呼び厚さ													呼び厚さ				
					FSGP	Sch40	Sch80	Sch120	Sch160	Sch10	Sch20	Sch30	7.9(LG)	STD	XS	Sch10S	Sch20S	Sch40	Sch80	Sch160		
15	1/2	21.7	25.4	25.4	0.085	0.085	0.107	-	0.139	-	-	-	-	-	-	0.100	0.110	0.120	0.120	0.150		
20	3/4	27.2	28.6	28.6	0.112	0.126	0.162	-	0.211	-	-	-	-	-	-	0.140	0.150	0.170	0.190	0.220		
25	1	34.0	38.1	38.1	0.236	0.250	0.319	-	0.424	-	-	-	-	-	-	0.310	0.310	0.350	0.390	0.430		
32	1 1/4	42.7	47.6	47.6	0.411	0.422	0.555	-	0.696	-	-	-	-	-	-	0.470	0.500	0.640	0.690	0.700		
40	1 1/2	48.6	57.2	57.2	0.573	0.604	0.806	-	1.230	-	-	-	-	-	-	0.680	0.680	0.850	1.000	1.240		
50	2	60.5	63.5	63.5	0.851	0.872	1.200	-	2.170	-	0.872	-	-	-	-	0.850	1.070	1.130	1.440	2.080		
65	2 1/2	76.3	76.2	76.2	1.420	1.740	2.280	-	3.420	-	1.740	-	-	-	-	1.430	1.650	2.170	2.840	3.460		
80	3	89.1	85.7	85.7	1.870	2.410	3.250	-	4.540	-	2.410	-	-	-	-	1.800	2.290	3.020	3.500	4.590		
90	3 1/2	101.6	95.3	95.3	2.320	3.170	4.390	-	6.550	-	3.170	-	-	-	-	2.120	2.740	3.600	4.350	6.620		
100	4	114.3	104.8	104.8	3.130	4.120	5.770	8.010	9.260	-	4.120	-	-	-	-	2.900	3.510	5.160	6.390	8.720		
125	5	139.8	123.8	123.8	4.530	6.540	9.200	13.30	14.60	-	6.540	-	-	-	-	4.480	5.900	7.570	10.60	14.75		
150	6	165.2	142.9	142.9	6.840	9.580	14.50	22.80	22.80	-	9.580	-	-	-	-	6.000	8.610	11.53	17.45	23.10		
200	8	216.3	177.8	177.8	12.80	17.90	27.10	39.20	46.60	-	17.90	17.90	-	-	-	13.00	16.30	20.16	30.50	47.00		
250	10	267.4	215.9	215.9	21.80	30.40	48.30	72.10	86.60	-	30.40	30.40	-	-	-	17.80	24.70	33.59	53.40	-		
300	12	318.5	254.0	254.0	32.00	47.20	77.90	111.0	141.0	-	47.20	47.20	-	-	-	23.80	35.00	49.00	78.70	-		
350	14	355.6	279.4	279.4	44.70	71.20	129.0	202.0	250.0	66.40	66.40	66.40	-	-	-	28.60	45.30	64.00	106.0	-		
400	16	406.4	304.8	304.8	55.20	110.0	173.0	277.0	354.0	71.30	71.30	71.30	55.20	66.10	88.00	35.20	55.90	90.00	199.0	-		
450	18	457.2	342.9	342.9	70.00	156.0	253.0	396.0	501.0	131.0	131.0	145.0	70.00	83.90	111.0	-	-	-	-	-		
500	20	508.0	381.0	381.0	86.60	204.0	353.0	535.0	684.0	173.0	173.0	175.0	86.60	104.0	138.0	-	-	-	-	-		
550	22	558.8	419.1	419.1	(105.0)	247.0	457.0	648.0	829.0	209.0	209.0	247.0	106.0	126.0	167.0	-	-	-	-	-		
600	24	609.6	431.8	431.8	(116.1)	343.0	597.0	863.0	1090.0	274.0	274.0	343.0	116.0	139.0	185.0	-	-	-	-	-		
650	26	660.4	495.3	495.3	-	-	-	-	-	-	-	-	147.0	176.0	234.0	-	-	-	-	-		
700	28	711.2	520.7	520.7	-	-	-	-	-	-	-	-	165.0	198.0	264.0	-	-	-	-	-		
750	30	762.0	558.8	558.8	-	-	-	-	-	-	-	-	190.0	228.0	304.0	-	-	-	-	-		
800	32	812.8	596.9	596.9	-	-	-	-	-	-	-	-	217.0	259.0	347.0	-	-	-	-	-		
850	34	863.6	635.0	635.0	-	-	-	-	-	-	-	-	246.0	295.0	393.0	-	-	-	-	-		
900	36	914.4	673.1	673.1	-	-	-	-	-	-	-	-	276.0	331.0	441.0	-	-	-	-	-		
950	38	965.2	711.2	711.2	-	-	-	-	-	-	-	-	308.0	370.0	493.0	-	-	-	-	-		
1000	40	1016.0	749.3	749.3	-	-	-	-	-	-	-	-	342.0	411.0	547.0	-	-	-	-	-		
1050	42	1066.8	762.0	711.2	-	-	-	-	-	-	-	-	352.0	422.0	562.0	-	-	-	-	-		
1100	44	1117.6	812.8	762.0	-	-	-	-	-	-	-	-	396.0	475.0	633.0	-	-	-	-	-		
1150	46	1168.4	850.9	800.1	-	-	-	-	-	-	-	-	434.0	521.0	695.0	-	-	-	-	-		
1200	48	1219.2	889.0	838.2	-	-	-	-	-	-	-	-	474.0	569.0	759.0	-	-	-	-	-		

*:()は淡路マテリア社内規定による肉厚7.9mmの概略重量です。
*:本表以外の段落、厚さ及び径の呼び48B(1200A)を超えるものも製造可能ですので別途ご相談ください。

JIS 径違いTの形状・寸法・重量 / DIMENSIONS OF REDUCING TEE



径違いT

径の呼び		外径 単位:mm		中心から端面 までの距離 単位:mm		概略重量(炭素鋼、合金鋼) 単位:kg										概略重量(ステンレス鋼) 単位:kg					
A	B	φD1	φD2	C	M	呼び厚さ										呼び厚さ					
						FSGP	Sch40	Sch80	Sch120	Sch160	Sch10	Sch20	Sch30	7.9(LG)	STD	XS	Sch10S	Sch20S	Sch40	Sch80	Sch160
20x 15	3/4 x 1/2	27.2	21.7	28.6	28.6	0.116	0.119	0.153	-	0.175	-	-	-	-	-	-	0.160	0.170	0.190	0.190	0.197
25x 20	1 x 3/4	34.0	27.2	38.1	38.1	0.221	0.232	0.297	-	0.394	-	-	-	-	-	-	0.300	0.300	0.330	0.385	0.400
15	x 1/2		21.7		38.1	0.213	0.223	0.284	-	0.374	-	-	-	-	-	-	0.300	0.300	0.310	0.385	0.380
32x 25	1-1/4 x 1	42.7	34.0	47.6	47.6	0.386	0.398	0.521	-	0.660	-	-	-	-	-	-	0.480	0.480	0.500	0.670	0.670
20	x 3/4		27.2		47.6	0.366	0.376	0.494	-	0.623	-	-	-	-	-	-	0.470	0.470	0.500	0.610	0.620
15	x 1/2		21.7		47.6	0.366	0.376	0.494	-	0.614	-	-	-	-	-	-	0.500	0.480	0.500	0.610	0.610
40x 32	1-1/2 x 1-1/4	48.6	42.7	57.2	57.2	0.557	0.583	0.776	-	1.020	-	-	-	-	-	-	0.680	0.680	0.850	1.010	1.030
25	x 1		34.0		57.2	0.525	0.553	0.734	-	0.975	-	-	-	-	-	-	0.680	0.680	0.850	1.010	0.980
20	x 3/4		27.2		57.2	0.501	0.526	0.700	-	0.928	-	-	-	-	-	-	0.680	0.680	0.850	1.000	0.940
15	x 1/2		21.7		57.2	0.500	0.530	0.700	-	0.930	-	-	-	-	-	-	0.680	0.680	0.850	1.000	0.940
50x 40	2 x 1-1/2	60.5	48.6	63.5	60.3	0.729	0.814	1.110	-	1.630	-	-	-	-	-	-	0.830	0.950	1.100	1.410	2.050
32	x 1-1/4		42.7		57.2	0.766	0.785	1.070	-	1.570	-	-	-	-	-	-	0.780	0.830	0.980	1.370	1.590
25	x 1		34.0		50.8	0.725	0.744	1.010	-	1.600	-	-	-	-	-	-	0.780	0.820	0.970	1.180	1.600
20	x 3/4		27.2		44.5	0.710	0.716	0.979	-	1.600	-	-	-	-	-	-	0.780	0.820	0.960	1.160	1.600
65x 50	2-1/2 x 2	76.3	60.5	76.2	69.9	1.310	1.560	2.060	-	2.740	-	1.560	-	-	-	-	1.430	1.450	2.050	2.700	2.900
40	x 1-1/2		48.6		66.7	1.250	1.510	1.980	-	2.590	-	-	-	-	-	-	1.410	1.440	1.640	2.360	2.850
32	x 1-1/4		42.7		63.5	1.220	1.480	1.940	-	2.600	-	-	-	-	-	-	1.370	1.400	1.450	2.330	2.830
25	x 1		34.0		57.2	1.300	1.440	1.890	-	2.600	-	-	-	-	-	-	1.280	1.370	1.450	2.270	2.830
80x 65	3 x 2-1/2	89.1	76.3	85.7	82.6	1.790	2.290	3.070	-	4.250	-	2.290	-	-	-	-	1.770	2.050	2.970	3.480	4.950
50	x 2		60.5		76.2	1.680	2.120	2.850	-	4.010	-	2.120	-	-	-	-	1.650	1.870	2.500	2.880	4.130
40	x 1-1/2		48.6		73.0	1.620	2.060	2.770	-	4.100	-	-	-	-	-	-	1.650	1.700	2.500	2.800	4.130
32	x 1-1/4		42.7		69.9	1.590	2.030	2.730	-	4.100	-	-	-	-	-	-	1.670	1.500	2.410	2.760	4.130
90x 80	3-1/2 x 3	101.6	89.1	95.3	92.1	2.290	3.040	4.190	-	6.190	-	3.040	-	-	-	-	2.120	2.740	3.600	-	-
65	x 2-1/2		76.3		88.9	2.210	2.920	4.020	-	5.900	-	2.920	-	-	-	-	2.120	2.740	3.600	-	-
50	x 2		60.5		82.6	2.090	2.740	3.800	-	6.000	-	2.740	-	-	-	-	2.120	2.740	3.600	-	-
40	x 1-1/2		48.6		79.4	2.030	2.690	3.720	-	6.000	-	-	-	-	-	-	2.120	2.740	3.600	-	-
100x 90	4 x 3-1/2	114.3	101.6	104.8	101.6	3.000	3.960	5.530	-	8.270	-	3.960	-	-	-	-	2.900	3.510	5.160	6.120	9.290
80	x 3		89.1		98.4	2.920	3.830	5.330	-	7.910	-	3.830	-	-	-	-	2.900	3.510	4.750	6.120	9.290
65	x 2-1/2		76.3		95.3	2.840	3.710	5.150	-	7.630	-	3.710	-	-	-	-	2.920	2.970	4.700	6.150	8.970
50	x 2		60.5		88.9	2.720	3.530	4.940	-	7.390	-	3.530	-	-	-	-	2.820	2.910	4.000	5.000	8.900
40	x 1-1/2		48.6		85.7	2.670	3.480	4.850	-	7.390	-	-	-	-	-	-	2.820	2.910	3.960	4.900	7.300
125x100	5 x 4	139.8	114.3	123.8	117.5	4.300	6.130	8.630	11.10	13.60	-	6.130	-	-	-	-	4.480	5.500	6.860	9.800	14.20
90	x 3-1/2		101.6		114.3	4.170	5.970	8.390	-	13.30	-	5.970	-	-	-	-	4.480	5.500	6.860	9.800	14.20
80	x 3		89.1		111.1	4.080	5.830	8.190	-	12.90	-	5.830	-	-	-	-	4.350	5.360	6.200	8.550	14.00
65	x 2-1/2		76.3		108.0	4.000	5.720	8.010	-	12.60	-	5.720	-	-	-	-	4.350	5.300	6.100	8.450	12.60
50	x 2		60.5		104.8	3.900	5.560	7.810	-	12.60	-	5.560	-	-	-	-	3.500	5.300	6.000	8.080	12.40

*:()は淡路マテリアル社内規定による肉厚7.9mmの概略重量です。
*:本表以外の段落、厚さ及び径の呼び48B(1200A)を超えるものも製造可能ですので別途ご相談ください。

径の呼び		外径 単位:mm		中心から端面 までの距離 単位:mm		概略重量(炭素鋼、合金鋼) 単位:kg										概略重量(ステンレス鋼) 単位:kg					
A	B	φD1	φD2	C	M	呼び厚さ										呼び厚さ					
						FSGP	Sch40	Sch80	Sch120	Sch160	Sch10	Sch20	Sch30	7.9(LG)	STD	XS	Sch10S	Sch20S	Sch40	Sch80	Sch160
150x125	6 x 5	165.2	139.8	142.9	136.5	6.450	9.080	13.60	17.50	21.50	-	9.080	-	-	-	-	6.000	8.610	11.00	14.50	21.10
100	x 4		114.3		130.2	6.230	8.670	13.00	16.70	20.50	-	8.670	-	-	-	-	5.900	7.700	10.85	13.90	20.00
90	x 3-1/2		101.6		127.0	6.090	8.510	12.80	-	20.10	-	8.510	-	-	-	-	5.900	7.700	10.85	13.90	20.00
80	x 3		89.1		123.8	6.010	8.380	12.60	-	19.70	-	8.380	-	-	-	-	5.800	7.700	9.700	13.00	18.60
65	x 2-1/2		76.3		120.7	5.930	8.260	12.40	-	19.70	-	8.260	-	-	-	-	5.800	7.000	9.050	12.60	18.20
50	x 2		60.5		120.7	5.930	8.260	12.40	-	19.70	-	8.260	-	-	-	-	5.800	7.000	9.050	12.60	18.00
200x150	8 x 6	216.3	165.2	177.8	168.3	11.90	16.60	25.20	34.10	43.00	-	16.60	-	-	-	-	12.80	14.90	19.62	25.46	-
125	x 5		139.8		161.9	11.50	16.10	24.30	33.00	41.60	-	16.10	-	-	-	-	12.30	14.10	18.55	24.55	-
100	x 4		114.3		155.6	11.30	15.70	23.70	32.00	40.60	-	15.70	-	-	-	-	11.80	14.00	17.80	23.95	-
90	x 3-1/2		101.6		152.4	11.20	15.60	23.50	-	40.60	-	15.60	-	-	-	-	11.80	14.00	17.80	23.74	-
250x200	10 x 8	267.4	216.3	215.9	203.2	20.40	28.50	45.00	62.50	80.30	-	28.50	28.50	-	-	-	17.60	24.70	30.50	45.47	-
150	x 6		165.2		193.7	19.50	27.20	43.20	60.00	76.70	-	27.20	-	-	-	-	17.20	21.00	30.00	43.65	-
125	x 5		139.8		190.5	19.20	26.80	42.30	59.00	77.00	-	26.80	-	-	-	-	17.50	21.00	29.50	42.74	-
100	x 4		114.3		184.2	19.20	26.80	43.00	58.00	77.00	-	26.80	-	-	-	-	17.50	21.00	29.00	43.45	-
300x250	12 x 10	318.5	267.4	254.0	241.3	30.40	49.00	73.30	103.0	133.0	-	44.60	44.60	-	-	-	22.90	34.50	46.00	74.06	-
200	x 8		216.3		228.6	29.00	47.70	70.10	99.50	127.0	-	42.70	42.70	-	-	-	22.90	34.30	44.10	70.83	-
150	x 6		165.2		219.1	28.10	46.40	68.10	98.00	124.0	-	41.40	-	-	-	-	20.00	34.20	42.70	68.81	-
125	x 5		139.8		215.9	28.10	45.00	67.00	94.00	121.0	-	40.00	-	-	-	-	20.00	34.20	40.40	67.70	-
350x300	14 x 12	355.6	318.5	279.4	269.9	42.70	69.20	123.0	140.0	179.0	-	69.20	69.20	-	-	-	28.00	43.90	61.70	124.3	-
250	x 10		267.4		257.2	41.20	62.40	108.0	134.0	171.0	-	62.40	62.40	-	-	-	27.40	43.50	59.30	109.1	-
200	x 8		216.3		247.7	40.00	60.00	103.0	130.0	166.0	-	60.00	60.00	-	-	-	27.10	43.00	57.40	104.0	-
150	x 6		165.2		238.1	40.00	59.00	91.50	128.0	164.0	-	59.00	-	-	-	-	26.30	41.40	55.00	92.45	-
400x350	16 x 14	406.4	355.6	304.8	304.8	54.20	95.20	158.0	269.0	343.0	71.00	71.00	71.00	54.20	64.90	86.10	35.70	56.50	87.10	159.6	-
300	x 12		318.5		295.3	52.20	91.40	152.0	261.0	333.0	-	70.00	91.40	52.70	63.10	83.60	34.90	54.70	85.80	153.6	-
250	x 10		267.4		282.6	51.20	88.10	147.0	252.0	322.0	-	69.50	88.10	51.20	61.30	81.20	34.00	54.10	84.00	148.5	-
200	x 8		216.3		273.1	48.30	87.50	143.0	246.0	314.0	-	67.90									

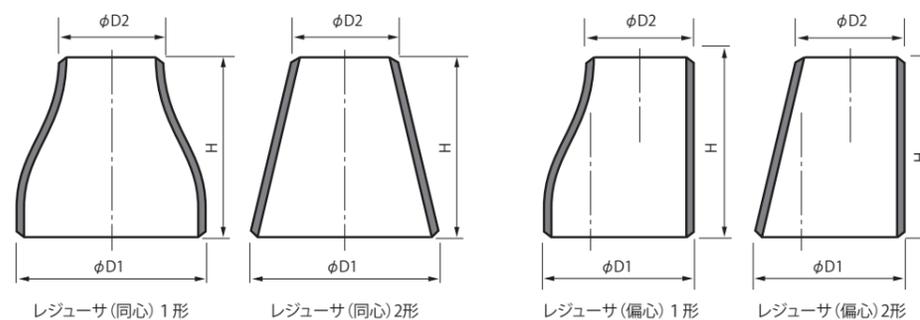
JIS 径違いTの形状・寸法・重量 / DIMENSIONS OF REDUCING TEE

大口径

径の呼び		外径 単位:mm		中心から端面までの距離 単位:mm		概略重量(炭素鋼、合金鋼) 単位:kg		
A	B	φD1	φD2	C	M	呼び厚さ		
						7.9(LG)	STD	XS
650 x 600	26 x 24	660.4	609.6	495.3	482.6	144.0	172.0	229.0
550	x 22		558.8		469.9	141.0	169.0	225.0
500	x 20		508.0		457.2	138.0	166.0	221.0
700 x 650	28 x 26	711.2	660.4	520.7	520.7	163.0	197.0	261.0
600	x 24		609.6		508.0	160.0	193.0	256.0
550	x 22		558.8		495.3	157.0	190.0	252.0
750 x 700	30 x 28	762.0	711.2	558.8	546.1	188.0	226.0	301.0
650	x 26		660.4		546.1	185.0	222.0	296.0
600	x 24		609.6		533.4	182.0	218.0	291.0
800 x 750	32 x 30	812.8	762.0	596.9	584.2	213.0	256.0	341.0
700	x 28		711.2		571.5	209.0	252.0	335.0
650	x 26		660.4		571.5	208.0	250.0	333.0
850 x 800	34 x 32	863.6	812.8	635.0	622.3	243.0	292.0	389.0
750	x 30		762.0		609.6	238.0	290.0	380.0
700	x 28		711.2		596.9	236.0	288.0	377.0
900 x 850	36 x 34	914.4	863.6	673.1	660.4	271.0	329.0	434.0
800	x 32		812.8		647.7	269.0	326.0	431.0
750	x 30		762.0		635.0	264.0	323.0	422.0
950 x 900	38 x 36	965.2	914.4	711.2	711.2	306.0	367.0	489.0
850	x 34		863.6		698.5	302.0	362.0	481.0
800	x 32		812.8		685.8	298.0	357.0	476.0
1000 x 950	40 x 38	1016.0	965.2	749.3	749.3	340.0	408.0	543.0
900	x 36		914.4		736.6	335.0	402.0	536.0
850	x 34		863.6		723.9	331.0	397.0	529.0
1050 x 1000	42 x 40	1066.8	1016.0	762.0	711.2	350.0	420.0	559.0
950	x 38		965.2		711.2	348.0	418.0	557.0
900	x 36		914.4		711.2	346.0	416.0	554.0
1100 x 1050	44 x 42	1117.6	1066.8	812.8	762.0	394.0	473.0	630.0
1000	x 40		1016.0		749.3	389.0	467.0	623.0
950	x 38		965.2		736.6	385.0	462.0	616.0
1150 x 1100	46 x 44	1168.4	1117.6	850.9	800.1	432.0	519.0	691.0
1050	x 42		1066.8		787.4	427.0	513.0	683.0
1000	x 40		1016.0		774.7	423.0	507.0	676.0
1200 x 1150	48 x 46	1219.2	1168.4	889.0	838.2	472.0	566.0	755.0
1100	x 44		1117.6		838.2	470.0	564.0	751.0
1050	x 42		1066.8		812.8	462.0	555.0	739.0

*:()は淡路マテリア社内規定による肉厚7.9mmの概略重量です。
*:本表以外の段落、厚さ及び径の呼び48B(1200A)を超えるものも製造可能ですので別途ご相談ください。

JIS レジューサの形状・寸法・重量 / DIMENSIONS OF REDUCER



レジューサ(同心)1形 レジューサ(同心)2形 レジューサ(偏心)1形 レジューサ(偏心)2形

レジューサ2形はJIS B2311、B2313に適用します。



径の呼び		外径 単位:mm		端面から端面 までの距離 単位:mm	概略重量(炭素鋼、合金鋼) 単位:kg										概略重量(ステンレス鋼) 単位:kg					
A	B	φD1	φD2	H	呼び厚さ										呼び厚さ					
					FSGP	Sch40	Sch80	Sch120	Sch160	Sch10	Sch20	Sch30	7.9(LG)	STD	XS	Sch10S	Sch20S	Sch40	Sch80	Sch160
20x 15	3/4 x 1/2	27.2	21.7	38.1	0.057	0.059	0.075	-	0.150	-	-	-	-	-	-	0.070	0.070	0.090	0.110	0.110
25x 20	1 x 3/4	34.0	27.2	50.8	0.110	0.116	0.147	-	0.200	-	-	-	-	-	-	0.100	0.100	0.120	0.148	0.200
15	x 1/2		21.7		0.100	0.105	0.133	-	0.190	-	-	-	-	-	-	0.100	0.100	0.120	0.134	0.180
32x 25	1-1/4 x 1	42.7	34.0	50.8	0.154	0.157	0.195	-	0.257	-	-	-	-	-	-	0.130	0.130	0.160	0.208	0.260
20	x 3/4		27.2		0.140	0.155	0.187	-	0.232	-	-	-	-	-	-	0.130	0.130	0.160	0.189	0.235
15	x 1/2		21.7		0.129	0.150	0.171	-	0.211	-	-	-	-	-	-	0.130	0.130	0.160	0.173	0.210
40x 32	1-1/2 x 1-1/4	48.6	42.7	63.5	0.232	0.275	0.324	-	0.429	-	-	-	-	-	-	0.190	0.200	0.250	0.327	0.433
25	x 1		34.0		0.209	0.290	0.300	-	0.382	-	-	-	-	-	-	0.190	0.200	0.250	0.294	0.385
20	x 3/4		27.2		0.190	0.250	0.290	-	0.379	-	-	-	-	-	-	0.190	0.200	0.250	0.270	0.383
15	x 1/2		21.7		0.178	0.250	0.290	-	0.360	-	-	-	-	-	-	0.190	0.200	0.250	0.250	0.322
50x 40	2 x 1-1/2	60.5	48.6	76.2	0.364	0.400	0.590	-	0.780	-	-	-	-	-	-	0.280	0.340	0.380	0.513	0.760
32	x 1-1/4		42.7		0.344	0.400	0.500	-	0.740	-	-	-	-	-	-	0.280	0.340	0.380	0.484	0.710
25	x 1		34.0		0.315	0.390	0.480	-	0.700	-	-	-	-	-	-	0.280	0.340	0.380	0.442	0.650
20	x 3/4		27.2		0.293	0.390	0.480	-	0.620	-	-	-	-	-	-	0.280	0.340	0.380	0.410	0.590
65x 50	2-1/2 x 2	76.3	60.5	88.9	0.594	0.750	0.990	-	1.280	-	0.750	-	-	-	-	0.430	0.570	0.720	0.945	1.220
40	x 1-1/2		48.6		0.543	0.690	0.940	-	1.170	-	-	-	-	-	-	0.430	0.530	0.670	0.860	1.120
32	x 1-1/4		42.7		0.518	0.650	0.900	-	1.100	-	-	-	-	-	-	0.430	0.500	0.630	0.820	1.060
25	x 1		34.0		0.482	0.630	0.870	-	1.020	-	-	-	-	-	-	0.430	0.480	0.580	0.760	0.980
80x 65	3 x 2-1/2	89.1	76.3	88.9	0.725	1.000	1.250	-	1.830	-	1.000	-	-	-	-	0.530	0.690	0.940	1.260	1.770
50	x 2		60.5		0.658	0.960	1.200	-	1.640	-	0.960	-	-	-	-	0.530	0.690	0.940	1.140	1.590
40	x 1-1/2		48.6		0.611	0.900	1.150	-	1.550	-	-	-	-	-	-	0.530	0.690	0.940	1.050	1.450
32	x 1-1/4		42.7		0.587	0.840	1.100	-	1.460	-	-	-	-	-	-	0.530	0.690	0.940	1.000	1.390
90x 80	3-1/2 x 3	101.6	89.1	101.6	0.961	1.280	1.770	-	2.640	-	1.280	-	-	-	-	0.700	0.920	1.290	1.790	-
65	x 2-1/2		76.3		0.899	1.230	1.650	-	2.450	-	1.230	-	-	-	-	0.700	0.920	1.240	1.670	-
50	x 2		60.5		0.826	1.100	1.510	-	2.210	-	1.100	-	-	-	-	0.700	0.920	1.110	1.520	-
40	x 1-1/2		48.6		0.771	1.020	1.410	-	2.050	-	-	-	-	-	-	0.700	0.920	1.030	1.420	-
32	x 1-1/4		42.7		0.745	0.988	1.350	-	2.100	-	-	-	-	-	-	0.700	0.920	1.000	1.360	-
100x 90	4 x 3-1/2	114.3	101.6	101.6	1.170	1.550	2.200	-	3.250	-	1.550	-	-	-	-	0.800	0.990	1.560	2.160	3.040
80	x 3		89.1		1.100	1.550	2.150	-	3.100	-	1.550	-	-	-	-	0.800	0.990	1.460	2.040	3.040
65	x 2-1/2		76.3		1.040	1.470	2.100	-	3.000	-	1.470	-	-	-	-	0.800	0.990	1.380	1.920	2.850
50	x 2		60.5		0.967	1.400	2.000	-	2.900	-	1.400	-	-	-	-	0.800	0.990	1.280	1.780	2.620
40	x 1-1/2		48.6		0.912	1.350	1.900	-	2.800	-	-	-	-	-	-	0.800	0.990	1.200	1.670	2.440
125x100	5 x 4	139.8	114.3	127.0	1.740	2.780	3.700	4.570	5.680	-	2.780	-	-	-	-	1.320	1.920	2.520	3.550	5.630
90	x 3-1/2		101.6		1.650	2.760	3.700	-	5.680	-	2.760	-	-	-	-	1.320	1.920	2.400	3.370	5.630
80	x 3		89.1		1.580	2.720	3.680	-	5.630	-	2.720	-	-	-	-	1.320	1.920	2.290	3.210	5.050
65	x 2-1/2		76.3		1.500	2.560	3.340	-	5.180	-	2.560	-	-	-	-	1.320	1.920	2.180	3.050	4.780
50	x 2		60.5		1.410	2.430	3.200	-	4.990	-	2.430	-	-	-	-	1.300	1.920	2.050	2.860	4.400

*:()は淡路マテリア社内規定による肉厚7.9mmの概略重量です。
*:本表以外の段落、厚さ及び径の呼び48B(1200A)を超えるものも製造可能ですので別途ご相談ください。

JIS レジューサの形状・寸法・重量 / DIMENSIONS OF REDUCER

径の呼び		外径 単位:mm		端面から端面 までの距離 単位:mm	概略重量(炭素鋼、合金鋼) 単位:kg										概略重量(ステンレス鋼) 単位:kg					
					呼び厚さ										呼び厚さ					
A	B	φD1	φD2	H	FSGP	Sch40	Sch80	Sch120	Sch160	Sch10	Sch20	Sch30	7.9(LG)	STD	XS	Sch10S	Sch20S	Sch40	Sch80	Sch160
150x125	6 x 5	165.2	139.8	139.7	2.550	3.750	5.690	6.830	8.450	-	3.750	-	-	-	-	1.750	2.550	3.610	5.430	8.530
100	x 4		114.3		2.360	3.750	5.420	6.280	7.750	-	3.750	-	-	-	-	1.750	2.550	3.330	5.010	7.830
90	x 3-1/2		101.6		2.270	3.700	5.220	-	7.410	-	3.700	-	-	-	-	1.750	2.550	3.200	4.810	-
80	x 3		89.1		2.180	3.650	5.100	-	7.080	-	3.650	-	-	-	-	1.750	2.550	3.070	4.610	7.150
65	x 2-1/2		76.3		2.090	3.430	4.940	-	6.750	-	3.430	-	-	-	-	1.750	2.550	2.950	4.400	7.830
200x150	8 x 6	216.3	165.2	152.4	4.170	6.550	9.070	12.00	14.70	-	5.710	-	-	-	-	2.850	4.560	5.770	8.710	-
125	x 5		139.8		3.870	6.280	8.730	11.30	13.80	-	5.400	-	-	-	-	2.850	4.560	5.470	8.220	-
100	x 4		114.3		3.670	5.800	8.350	10.60	12.90	-	5.100	-	-	-	-	2.850	4.560	5.150	7.760	-
90	x 3-1/2		101.6		3.570	5.100	7.650	-	12.60	-	4.970	-	-	-	-	2.850	4.560	5.020	7.540	-
250x200	10 x 8	267.4	216.3	177.8	6.870	11.00	15.40	20.90	27.00	-	9.580	9.580	-	-	-	4.210	6.770	9.680	15.40	-
150	x 6		165.2		6.320	10.69	14.30	19.00	24.50	-	8.780	-	-	-	-	4.210	6.770	8.870	14.00	-
125	x 5		139.8		6.060	9.800	18.90	18.10	23.30	-	8.420	-	-	-	-	4.210	6.770	8.510	13.40	-
100	x 4		114.3		5.800	9.600	13.60	17.30	22.10	-	8.060	-	-	-	-	4.210	6.770	8.140	12.80	-
300x250	12 x 10	318.5	267.4	203.2	9.970	15.60	23.60	34.30	43.60	-	14.70	14.70	-	-	-	6.550	9.400	14.80	24.40	-
200	x 8		216.3		9.290	15.50	19.60	31.70	40.30	-	13.70	13.70	-	-	-	6.550	9.400	13.80	22.70	-
150	x 6		165.2		8.690	15.40	17.30	29.40	37.20	-	12.80	-	-	-	-	6.550	9.400	12.90	21.10	-
125	x 5		139.8		8.390	14.90	16.70	28.30	35.70	-	12.30	-	-	-	-	6.550	9.400	12.40	20.40	-
350x300	14 x 12	355.6	318.5	330.2	21.20	29.50	49.30	70.10	87.70	-	29.50	29.50	-	-	-	13.50	21.40	29.80	49.50	-
250	x 10		267.4		19.70	28.40	45.70	64.70	80.90	-	27.40	27.40	-	-	-	12.60	20.00	27.70	45.90	-
200	x 8		216.3		18.30	27.40	44.20	59.70	74.30	-	25.40	25.40	-	-	-	11.70	18.50	25.00	42.40	-
150	x 6		165.2		16.90	25.40	40.00	54.80	67.90	-	23.40	-	-	-	-	10.80	17.10	23.60	39.10	-
400x350	16 x 14	406.4	355.6	355.6	25.00	43.00	69.80	95.00	121.0	31.00	31.00	31.00	25.90	31.00	41.10	16.50	26.20	41.50	67.60	-
300	x 12		318.5		24.10	42.50	66.50	90.40	115.0	-	29.60	29.60	24.10	29.60	39.20	15.80	25.10	39.60	64.50	-
250	x 10		267.4		24.00	42.00	62.30	84.40	107.0	-	27.80	27.80	22.40	27.80	36.80	14.80	23.50	37.20	60.30	-
200	x 8		216.3		20.60	38.00	55.40	78.60	99.50	-	24.80	24.80	21.70	26.20	34.50	13.90	23.50	35.30	56.30	-
450x400	18 x 16	457.2	406.4	381.0	30.00	68.00	95.40	130.0	164.0	37.80	37.80	50.10	31.50	37.80	50.10	-	-	-	-	-
350	x 14		355.6		29.00	65.00	86.20	123.0	155.0	35.70	35.70	47.40	29.80	35.70	47.40	-	-	-	-	-
300	x 12		318.5		27.70	61.00	84.70	118.0	148.0	-	34.30	45.50	27.70	33.20	44.00	-	-	-	-	-
250	x 10		267.4		24.80	58.00	80.00	111.0	139.0	-	32.40	43.00	27.10	32.70	43.20	-	-	-	-	-
500x450	20 x 18	508.0	457.2	508.0	47.00	108.0	180.0	212.0	271.0	56.40	56.40	74.90	47.00	56.40	74.90	-	-	-	-	-
400	x 16		406.4		44.50	102.0	165.0	201.0	256.0	53.50	53.50	71.10	44.70	53.50	71.10	-	-	-	-	-
350	x 14		355.6		42.00	97.00	159.0	190.0	242.0	50.80	50.80	67.40	42.40	50.80	67.40	-	-	-	-	-
300	x 12		318.5		40.80	94.00	150.0	182.0	231.0	-	50.00	62.10	40.80	49.20	65.10	-	-	-	-	-
550x500	22 x 20	558.8	508.0	508.0	(52.03)	128.7	208.0	255.0	324.0	62.60	62.60	82.90	52.10	62.40	82.90	-	-	-	-	-
450	x 18		457.2		(49.70)	107.9	193.0	243.0	308.0	59.70	59.70	79.20	49.50	59.40	78.90	-	-	-	-	-
400	x 16		406.4		(47.47)	104.6	185.0	231.0	293.0	57.10	57.10	75.60	47.00	56.40	74.80	-	-	-	-	-
350	x 14		355.6		(45.31)	102.0	165.0	219.0	278.0	54.50	54.50	72.10	45.30	54.30	72.10	-	-	-	-	-
600x550	24 x 22	609.6	558.8	508.0	(57.06)	150.0	218.0	310.0	391.0	68.60	68.60	124.0	57.10	68.40	91.00	-	-	-	-	-
500	x 20		508.0		(54.75)	146.0	210.0	297.0	374.0	65.80	65.80	119.0	54.80	65.70	87.30	-	-	-	-	-
450	x 18		457.2		(52.55)	140.0	199.0	284.0	357.0	63.20	63.20	114.0	52.60	63.00	83.80	-	-	-	-	-
400	x 16		406.4		(50.43)	126.0	192.0	271.0	341.0	60.30	60.30	109.0	50.40	60.50	80.30	-	-	-	-	-

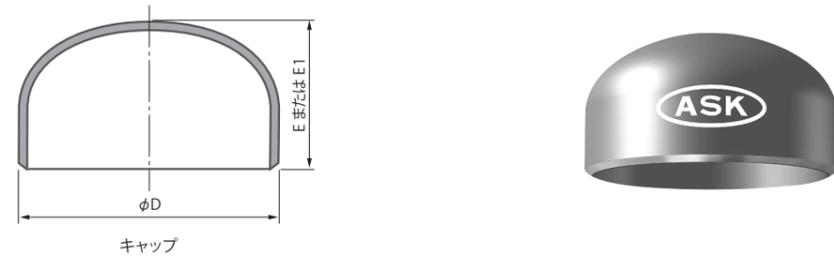
*:()は淡路マテリア社内規定による肉厚7.9mmの概略重量です。

大口徑

径の呼び		外径 単位:mm		端面から端面 までの距離 単位:mm	概略重量(炭素鋼、合金鋼) 単位:kg		
					7.9(LG)	STD	XS
A	B	φD1	φD2	H	7.9(LG)	STD	XS
650 x 600	26 x 24	660.4	609.6	609.6	74.50	89.40	119.0
550	x 22		558.8		71.50	85.80	114.0
500	x 20		508.0		68.50	82.10	109.0
450	x 18		457.2		66.30	79.50	106.0
700 x 650	28 x 26	711.2	660.4	609.6	80.60	96.60	129.0
600	x 24		609.6		77.50	93.00	124.0
550	x 22		558.8		74.50	89.40	119.0
500	x 20		508.0		72.40	86.80	115.0
750 x 700	30 x 28	762.0	711.2	609.6	86.60	104.0	138.0
650	x 26		660.4		83.60	100.0	133.0
600	x 24		609.6		80.60	96.60	129.0
550	x 22		558.8		78.50	94.20	125.0
800 x 750	32 x 30	812.8	762.0	609.6	92.60	111.0	148.0
700	x 28		711.2		89.60	108.0	143.0
650	x 26		660.4		86.60	104.0	138.0
600	x 24		609.6		84.60	102.0	135.0
850 x 800	34 x 32	863.6	812.8	609.6	98.70	118.0	158.0
750	x 30		762.0		95.60	115.0	153.0
700	x 28		711.2		92.60	111.0	148.0
650	x 26		660.4		90.70	109.0	145.0
900 x 850	36 x 34	914.4	863.6	609.6	104.6	125.6	167.3
800	x 32		812.8		101.6	122.0	162.4
750	x 30		762.0		98.60	118.4	157.6
700	x 28		711.2		95.60	114.7	152.8
950 x 900	38 x 36	965.2	914.4	609.6	112.0	133.0	177.0
850	x 34		863.6		108.0	129.0	172.0
800	x 32		812.8		105.0	126.0	167.0
750	x 30		762.0		103.0	124.0	165.0
1000 x 950	40 x 38	1016.0	965.2	609.6	117.0	140.0	187.0
900	x 36		914.4		114.0	137.0	182.0
850	x 34		863.6		111.0	133.0	177.0
800	x 32		812.8		109.0	131.0	174.0
1050 x 1000	42 x 40	1066.8	1016.0	609.6	123.0	147.0	196.0
950	x 38		965.2		120.0	144.0	192.0
900	x 36		914.4		117.0	140.0	187.0
850	x 34		863.6		115.0	138.0	184.0
1100 x 1050	44 x 42	1117.6	1066.8	609.6	129.0	155.0	206.0
1000	x 40		1016.0		126.0	151.0	201.0
950	x 38		965.2		123.0	147.0	196.0
900	x 36		914.4		121.0	146.0	194.0
1150 x 1100	46 x 44	1168.4	1117.6	711.2	157.0	189.0	252.0
1050	x 42		1066.8		154.0	185.0	246.0
1000	x 40		1016.0		150.0	180.0	241.0
950	x 38		965.2		148.0	178.0	237.0
1200 x 1150	48 x 46	1219.2	1168.4	711.2	164.0	197.0	263.0
1100	x 44		1117.6		161.0	193.0	257.0
1050	x 42		1066.8		157.0	189.0	252.0
1000	x 40		1016.0		155.0	186.0	248.0

*:本表以外の段落、厚さ及び径の呼び48B(1200A)を超えるものも製造可能ですので別途ご相談ください。

JIS キャップの形状・寸法・重量 / DIMENSIONS OF CAP

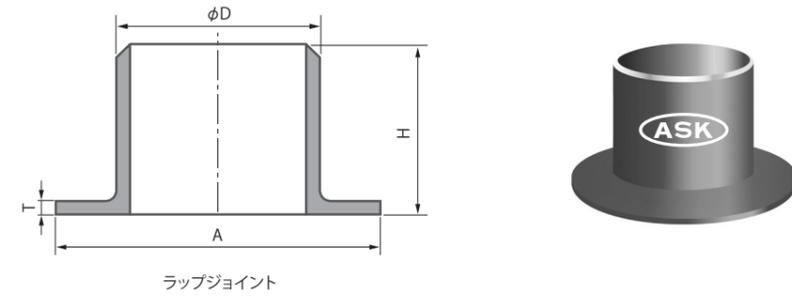


キャップ

径の呼び		外径 単位:mm	背から端面 までの距離 ⁽¹⁾ 単位:mm		限界厚さ 単位:mm	概略重量(炭素鋼、合金鋼) 単位:kg										概略重量(ステンレス鋼) 単位:kg								
A	B	φD	E	E1	(JISB2312 に適用)	呼び厚さ										呼び厚さ								
						FSGP	Sch40	Sch80	Sch120	Sch160	Sch10	Sch20	Sch30	7.9(LG)	STD	XS	Sch10S	Sch20S	Sch40	Sch80				
15	1/2	21.7	25.4	-	-	0.100	0.100	0.150	-	0.190	-	-	-	-	-	-	0.078	0.100	0.100	0.150				
20	3/4	27.2	25.4	-	-	0.100	0.100	0.150	-	0.190	-	-	-	-	-	-	0.078	0.100	0.100	0.150				
25	1	34.0	38.1	-	-	0.103	0.109	0.165	-	0.205	-	-	-	-	-	-	0.090	0.110	0.110	0.167				
32	1 1/4	42.7	38.1	-	-	0.141	0.145	0.197	-	0.270	-	-	-	-	-	-	0.110	0.146	0.146	0.199				
40	1 1/2	48.6	38.1	-	-	0.162	0.171	0.236	-	0.325	-	-	-	-	-	-	0.130	0.172	0.172	0.238				
50	2	60.5	38.1	44.5	5.5	0.228	0.234	0.330	-	0.520	-	0.234	-	-	-	-	0.170	0.240	0.240	0.330				
65	2 1/2	76.3	38.1	50.8	7.0	0.339	0.420	0.560	-	0.770	-	0.420	-	-	-	-	0.245	0.420	0.420	0.565				
80	3	89.1	50.8	63.5	7.6	0.507	0.664	0.917	-	1.350	-	0.664	-	-	-	-	0.365	0.664	0.664	0.917				
90	3 1/2	101.6	63.5	76.2	8.1	0.706	0.958	1.360	-	-	-	0.958	-	-	-	-	-	-	-	-				
100	4	114.3	63.5	76.2	8.6	0.877	1.170	1.680	2.680	2.520	-	1.170	-	-	-	-	0.591	0.740	1.170	1.680				
125	5	139.8	76.2	88.9	9.5	1.290	1.900	2.730	3.640	4.100	-	1.900	-	-	-	-	0.990	1.450	1.900	2.730				
150	6	165.2	88.9	101.6	11.0	1.990	2.830	4.380	6.280	6.580	-	2.830	-	-	-	-	1.370	2.000	2.830	4.380				
200	8	216.3	101.6	127.0	12.7	3.610	5.110	7.910	13.20	16.70	-	5.110	5.110	-	-	-	2.520	4.100	5.110	7.910				
250	10	267.4	127.0	152.4	12.7	6.330	8.920	16.40	23.30	33.40	-	8.920	8.920	-	-	-	3.870	6.300	9.000	16.20				
300	12	318.5	152.4	177.8	12.7	9.430	14.10	26.40	38.60	50.60	-	14.10	14.10	-	-	-	6.890	8.900	14.00	26.20				
350	14	355.6	165.1	190.5	12.7	13.20	18.60	34.90	51.10	65.60	15.90	15.90	15.90	-	-	-	-	-	-	-				
400	16	406.4	177.8	203.2	12.7	16.60	26.70	49.00	70.80	92.80	20.00	20.00	20.00	16.60	20.00	26.70	-	-	-	-				
450	18	457.2	203.2	228.6	12.7	21.20	41.50	69.00	101.0	131.0	25.50	25.50	34.10	21.20	25.50	34.10	-	-	-	-				
500	20	508.0	228.6	254.0	12.7	25.00	54.10	93.80	136.0	179.0	31.80	31.80	42.50	26.40	31.80	42.50	-	-	-	-				
550	22	558.8	254.0	254.0	12.7	(32.20)	64.80	116.0	168.0	220.0	26.10	26.10	51.70	31.50	38.80	51.70	-	-	-	-				
600	24	609.6	266.7	304.8	12.7	(45.00)	89.70	160.0	237.0	306.0	45.10	45.10	89.70	36.60	45.10	60.10	-	-	-	-				
650	26	660.4	266.7	-	-	-	-	-	-	-	-	-	-	41.00	50.50	67.30	-	-	-	-				
700	28	711.2	266.7	-	-	-	-	-	-	-	-	-	-	45.50	56.20	74.90	-	-	-	-				
750	30	762.0	266.7	-	-	-	-	-	-	-	-	-	-	50.30	62.10	82.80	-	-	-	-				
800	32	812.8	266.7	-	-	-	-	-	-	-	-	-	-	55.40	68.40	91.20	-	-	-	-				
850	34	863.6	266.7	-	-	-	-	-	-	-	-	-	-	62.30	75.40	100.0	-	-	-	-				
900	36	914.4	266.7	-	-	-	-	-	-	-	-	-	-	68.00	81.90	109.0	-	-	-	-				
950	38	965.2	304.8	-	-	-	-	-	-	-	-	-	-	79.00	94.70	126.0	-	-	-	-				
1000	40	1016.0	304.8	-	-	-	-	-	-	-	-	-	-	95.00	102.0	137.0	-	-	-	-				
1050	42	1066.8	304.8	-	-	-	-	-	-	-	-	-	-	98.00	110.0	147.0	-	-	-	-				
1100	44	1117.6	342.9	-	-	-	-	-	-	-	-	-	-	103.0	126.0	167.0	-	-	-	-				
1150	46	1168.4	342.9	-	-	-	-	-	-	-	-	-	-	111.0	134.0	179.0	-	-	-	-				
1200	48	1219.2	342.9	-	-	-	-	-	-	-	-	-	-	118.0	143.0	191.0	-	-	-	-				

*:()は淡路マテリア社内規定による肉厚7.9mmの概略重量です。
 *:28B(700A)以上は当社の社内規格によります。
 *:48B(1200A)を超える径の呼び及び本表以外の厚さについても製造可能ですので別途ご相談ください。

JIS ラップジョイントの形状・寸法・重量 / DIMENSIONS OF LAPJOINT



ラップジョイント

径の呼び		外径 単位:mm	厚さ 単位:mm	ツバの直径(A) 単位:mm	高さ 単位:mm	概略重量(炭素鋼) 単位:kg
A	B	φD	T	10K	H	10K. SGP
50	2	60.5	3.8	96.0	50.0	0.400
65	2 1/2	76.3	4.2	112.0	80.0	0.780
80	3	89.1	4.2	126.0	80.0	1.000
100	4	114.3	4.5	150.0	100.0	1.500
125	5	139.8	4.5	182.0	125.0	2.270
150	6	165.2	5.0	210.0	130.0	3.000
200	8	216.3	5.8	260.0	140.0	4.950
250	10	267.4	6.6	324.0	140.0	7.350

公差	±2.0	-15%	±2.0	+0
	±2.5			-0.8
	±3.5		±3.2	+0,-1.6
	+5.0,-4.5			

注) 概略寸法は基準寸法による計算値であり、ステンレス鋼(SUS304)の比重7.93/cm³を使用しています。

ASME 管継手の厚さ / WALL THICKNESS

Unit : mm

Nominal Pipe Size		Outside Diameter		Nominal Wall Thickness																	Outside Diameter		Nominal Pipe Size	
				Carbon & Alloy Steel												Stainless Steel								
				ASME B36.10M												ASME B36.19M								
DN	NPS	(inch)	(mm)	STD	XS	XXS	Sch10	Sch20	Sch30	Sch40	Sch60	Sch80	Sch100	Sch120	Sch140	Sch160	Sch5S	Sch10S	Sch40S	Sch80S	(inch)	(mm)	DN	NPS
15	1/2	0.840	21.3	2.77	3.73	7.47	2.11	-	2.41	2.77	-	3.73	-	-	-	4.78	1.65	2.11	2.77	3.73	0.840	21.3	15	1/2
20	3/4	1.050	26.7	2.87	3.91	7.82	2.11	-	2.41	2.87	-	3.91	-	-	-	5.56	1.65	2.11	2.87	3.91	1.050	26.7	20	3/4
25	1	1.315	33.4	3.38	4.55	9.09	2.77	-	2.90	3.38	-	4.55	-	-	-	6.35	1.65	2.77	3.38	4.55	1.315	33.4	25	1
32	1-1/4	1.660	42.2	3.56	4.85	9.70	2.77	-	2.97	3.56	-	4.85	-	-	-	6.35	1.65	2.77	3.56	4.85	1.660	42.2	32	1-1/4
40	1-1/2	1.900	48.3	3.68	5.08	10.15	2.77	-	3.18	3.68	-	5.08	-	-	-	7.14	1.65	2.77	3.68	5.08	1.900	48.3	40	1-1/2
50	2	2.375	60.3	3.91	5.54	11.07	2.77	-	3.18	3.91	-	5.54	-	-	-	8.74	1.65	2.77	3.91	5.54	2.375	60.3	50	2
65	2-1/2	2.875	73.0	5.16	7.01	14.02	3.05	-	4.78	5.16	-	7.01	-	-	-	9.53	2.11	3.05	5.16	7.01	2.875	73.0	65	2-1/2
80	3	3.500	88.9	5.49	7.62	15.24	3.05	-	4.78	5.49	-	7.62	-	-	-	11.13	2.11	3.05	5.49	7.62	3.500	88.9	80	3
90	3-1/2	4.000	101.6	5.74	8.08	-	3.05	-	4.78	5.74	-	8.08	-	-	-	-	2.11	3.05	5.74	8.08	4.000	101.6	90	3-1/2
100	4	4.500	114.3	6.02	8.56	17.12	3.05	-	4.78	6.02	-	8.56	-	11.13	-	13.49	2.11	3.05	6.02	8.56	4.500	114.3	100	4
125	5	5.563	141.3	6.55	9.53	19.05	3.40	-	-	6.55	-	9.53	-	12.70	-	15.88	2.77	3.40	6.55	9.53	5.563	141.3	125	5
150	6	6.625	168.3	7.11	10.97	21.95	3.40	-	-	7.11	-	10.97	-	14.27	-	18.26	2.77	3.40	7.11	10.97	6.625	168.3	150	6
200	8	8.625	219.1	8.18	12.70	22.23	3.76	6.35	7.04	8.18	10.31	12.70	15.09	18.26	20.62	23.01	2.77	3.76	8.18	12.70	8.625	219.1	200	8
250	10	10.750	273.0	9.27	12.70	25.40	4.19	6.35	7.80	9.27	12.70	15.09	18.26	21.44	25.40	28.58	3.40	4.19	9.27	12.70	10.750	273.0	250	10
300	12	12.750	323.8	9.53	12.70	25.40	4.57	6.35	8.38	10.31	14.27	17.48	21.44	25.40	28.58	33.32	3.96	4.57	9.53	12.70	12.750	323.8	300	12
350	14	14.000	355.6	9.53	12.70	-	6.35	7.92	9.53	11.13	15.09	19.05	23.83	27.79	31.75	35.71	3.96	4.78	9.53	12.70	14.000	355.6	350	14
400	16	16.000	406.4	9.53	12.70	-	6.35	7.92	9.53	12.70	16.66	21.44	26.19	30.96	36.53	40.49	4.19	4.78	9.53	12.70	16.000	406.4	400	16
450	18	18.000	457	9.53	12.70	-	6.35	7.92	11.13	14.27	19.05	23.83	29.36	34.93	39.67	45.24	4.19	4.78	9.53	12.70	18.000	457	450	18
500	20	20.000	508	9.53	12.70	-	6.35	9.53	12.70	15.09	20.62	26.19	32.54	38.10	44.45	50.01	4.78	5.54	9.53	12.70	20.000	508	500	20
550	22	22.000	559	9.53	12.70	-	6.35	9.53	12.70	-	22.23	28.58	34.93	41.28	47.63	53.98	4.78	5.54	-	-	22.000	559	550	22
600	24	24.000	610	9.53	12.70	-	6.35	9.53	14.27	17.48	24.61	30.96	38.89	46.02	52.37	59.54	5.54	6.35	9.53	12.70	24.000	610	600	24
650	26	26.000	660	9.53	12.70	-	7.92	12.70	-	-	-	-	-	-	-	-	-	-	-	-	26.000	660	650	26
700	28	28.000	711	9.53	12.70	-	7.92	12.70	15.88	-	-	-	-	-	-	-	-	-	-	-	28.000	711	700	28
750	30	30.000	762	9.53	12.70	-	7.92	12.70	15.88	-	-	-	-	-	-	-	6.35	7.92	-	-	30.000	762	750	30
800	32	32.000	813	9.53	12.70	-	7.92	12.70	15.88	17.48	-	-	-	-	-	-	-	-	-	-	32.000	813	800	32
850	34	34.000	864	9.53	12.70	-	7.92	12.70	15.88	17.48	-	-	-	-	-	-	-	-	-	-	34.000	864	850	34
900	36	36.000	914	9.53	12.70	-	7.92	12.70	15.88	19.05	-	-	-	-	-	-	-	-	-	-	36.000	914	900	36
950	38	38.000	965	9.53	12.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.000	965	950	38
1000	40	40.000	1016	9.53	12.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.000	1016	1000	40
1050	42	42.000	1067	9.53	12.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42.000	1067	1050	42
1100	44	44.000	1118	9.53	12.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44.000	1118	1100	44
1150	46	46.000	1168	9.53	12.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46.000	1168	1150	46
1200	48	48.000	1219	9.53	12.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48.000	1219	1200	48

ASME 管継手の寸法許容差 / TOLERANCES

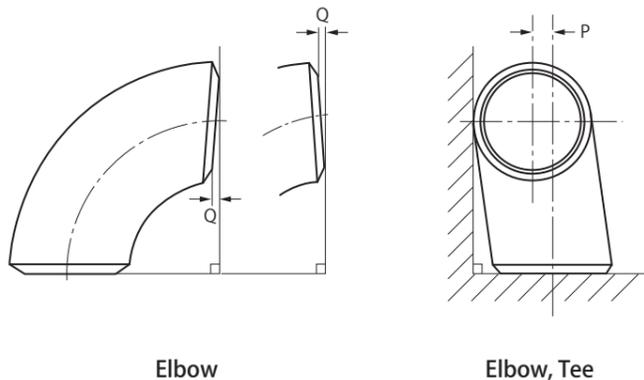
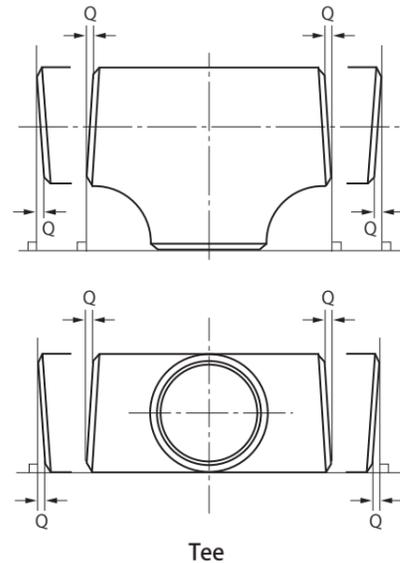
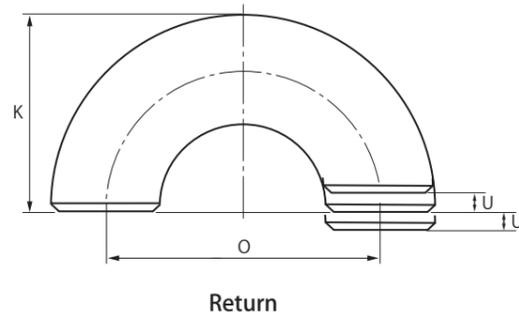
ASME B 16.9
Unit : mm

(NPS)	All Fittings			45 Deg Elbows 90 Deg Elbows Tees Reducers	Caps	Returns		
	Outside Diameter at Bevel	Inside Diameter at End	Wall Thickness			E	O	K
1/2 to 2-1/2	+1.52 -0.76	±0.76	Not less than 87.5% of nominal thickness	±1.52	±3.05	±6.35	±6.35	±0.76
3 to 4	±1.52	±1.52						
5 to 8	+2.29 -1.52	±3.05						
10 to 18	+4.06 -3.05	±3.05						
20 to 24	+6.35 -4.83	±4.83						

ASME 管継手の直角度の許容値 / TOLERANCES

Unit : mm

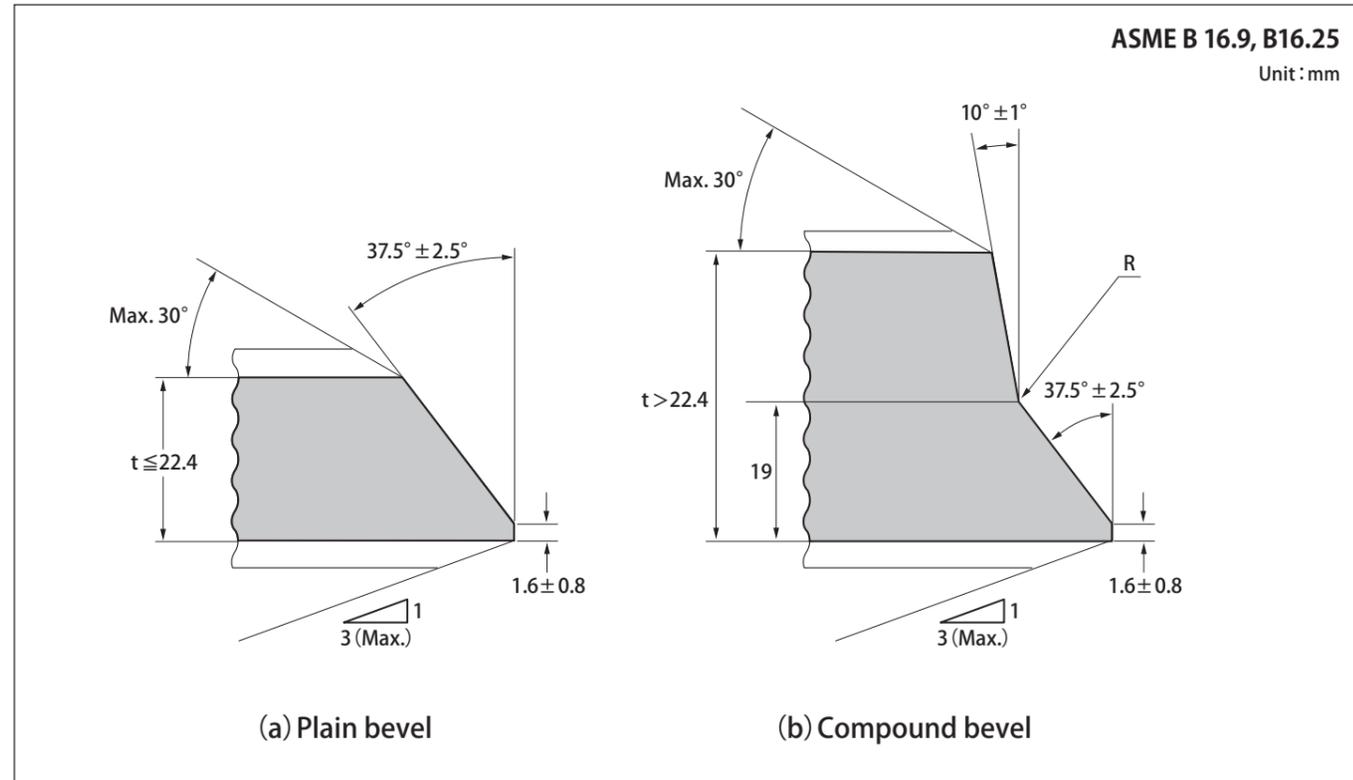
Nominal Pipe Size	Angularity Tolerances	
	Off Angle Q	Off Plane P
1/2 to 4	0.76	1.52
5 to 8	1.52	3.05
10 to 12	2.29	4.83
14 to 16	2.29	6.35
18 to 24	3.05	9.65



ASME ベベルエンドの形状・寸法 / WELDING END PREPARATION

ASME B 16.9, B16.25

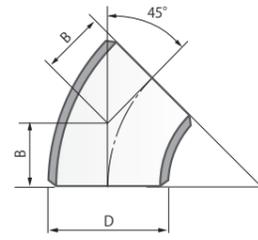
Unit : mm



Nominal Pipe Wall Thickness (t)	End Preparation
Less than X*	Cut square or slightly chamfer, at manufacturer's option.
X* to 22.4mm (0.88in.) incl.	Plain bevel as in sketch (a) above
More than 22.4mm (0.88in.)	Compound bevel as in sketch (b) above

X* = 5mm for carbon steel, ferritic alloy steel or wrought iron;
3mm for austenitic alloy steel

ASME 45°エルボ(ロング)の形状・寸法・重量 / DIMENSIONS OF LONG RADIUS ELBOW



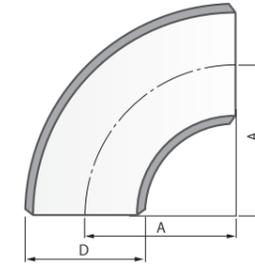
45° LONG RADIUS ELBOW



ASME B 16.9

Nominal Pipe Size (NPS)	Dimensions (Unit:mm)		Carbon & Alloy Steel Weight (Unit:kg)																Stainless Steel Weight (Unit:kg)			
	Outside Diameter at Bevel	Center-to-End 45 Deg Elbow	STD	XS	XXS	S40	S80	S120	S160	S10	S20	S30	S60	S100	S140	S10S	S40S	S80S	S160			
	D	B																				
1/2	21.3	16	0.038	0.048	0.076	0.038	0.048	-	0.058	-	-	-	-	-	-	0.030	0.040	0.050	0.060			
3/4	26.7	19	0.060	0.077	0.131	0.060	0.077	-	0.115	-	-	-	-	-	-	0.050	0.062	0.080	0.115			
1	33.4	22	0.106	0.137	0.231	0.106	0.137	-	0.180	-	-	-	-	-	-	0.070	0.107	0.140	0.180			
1-1/4	42.2	25	0.163	0.215	0.374	0.163	0.215	-	0.270	-	-	-	-	-	-	0.110	0.167	0.220	0.270			
1-1/2	48.3	29	0.218	0.292	0.515	0.218	0.292	-	0.390	-	-	-	-	-	-	0.160	0.220	0.295	0.395			
2	60.3	35	0.361	0.497	0.893	0.361	0.497	0.560	0.736	-	-	-	-	-	-	0.260	0.365	0.510	0.750			
2-1/2	73.0	44	0.728	0.961	1.720	0.728	0.961	0.740	1.260	-	-	-	-	-	-	0.420	0.735	0.970	1.270			
3	88.9	51	1.090	1.470	2.670	1.090	1.470	1.455	2.060	-	-	-	-	-	-	0.660	1.100	1.490	2.090			
3-1/2	101.6	57	1.470	2.020	3.690	1.470	2.020	-	3.020	-	-	-	-	-	-	0.820	1.510	2.050	3.050			
4	114.3	64	1.940	2.690	4.940	1.940	2.690	3.380	4.040	-	-	-	-	-	-	1.100	2.040	2.710	4.080			
5	141.3	79	3.270	4.650	8.630	3.270	4.650	6.000	7.380	-	-	-	-	-	-	2.010	3.460	4.690	7.450			
6	168.3	95	5.100	7.690	14.30	5.100	7.690	9.720	12.20	-	-	-	-	-	-	2.950	5.740	7.770	12.30			
8	219.1	127	10.20	15.60	26.00	10.20	15.60	21.70	26.80	-	10.20	10.20	-	-	-	5.150	10.30	15.80	-			
10	273.0	159	18.10	24.50	46.40	18.10	28.80	39.80	51.80	-	18.10	18.10	-	-	-	8.400	18.30	24.60	-			
12	323.8	190	26.70	35.20	67.00	28.80	47.60	67.00	85.50	-	26.70	26.70	39.10	-	-	14.30	26.75	35.35	-			
14	355.6	222	34.20	45.30	-	39.80	66.60	94.10	119.0	34.20	34.20	34.20	53.00	94.10	119.0	18.300	40.20	-	-			
16	406.4	254	44.90	59.40	-	59.40	97.90	137.0	176.0	44.90	44.90	44.90	76.50	137.0	176.0	36.10	60.00	-	-			
18	457.0	286	56.90	75.40	-	84.50	138.0	196.0	249.0	56.90	56.90	75.40	110.0	196.0	249.0	-	-	-	-			
20	508.0	318	70.50	93.40	-	110.0	187.0	264.0	338.0	70.50	70.50	93.40	148.0	264.0	338.0	-	-	-	-			
22	559.0	343	85.00	112.5	-	140.0	246.0	347.0	442.0	85.00	83.70	112.5	-	347.0	442.0	-	-	-	-			
24	610.0	381	102.0	135.0	-	184.0	319.0	459.0	580.0	102.0	102.0	184.0	255.0	459.0	580.0	-	-	-	-			

ASME 90°エルボ(ロング)の形状・寸法・重量 / DIMENSIONS OF LONG RADIUS ELBOW



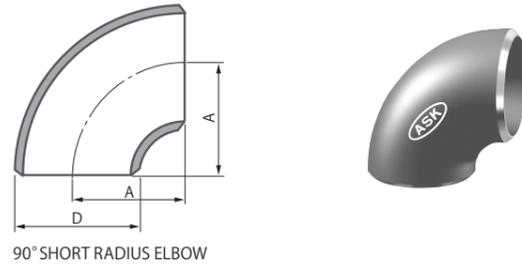
90° LONG RADIUS ELBOW



ASME B 16.9

Nominal Pipe Size (NPS)	Dimensions (Unit:mm)		Carbon & Alloy Steel Weight (Unit:kg)																Stainless Steel Weight (Unit:kg)			
	Outside Diameter at Bevel	Center-to-End 90 Deg Elbow	STD	XS	XXS	S40	S80	S120	S160	S10	S20	S30	S60	S100	S140	S10S	S40S	S80S	S160			
	D	A																				
1/2	21.3	38	0.078	0.097	0.152	0.078	0.097	-	0.117	-	-	-	-	-	-	0.060	0.080	0.100	0.120			
3/4	26.7	38	0.104	0.134	0.225	0.104	0.134	-	0.176	-	-	-	-	-	-	0.090	0.110	0.130	0.180			
1	33.4	38	0.150	0.194	0.326	0.150	0.194	-	0.253	-	-	-	-	-	-	0.130	0.160	0.200	0.255			
1-1/4	42.2	48	0.254	0.335	0.583	0.254	0.335	-	0.421	-	-	-	-	-	-	0.210	0.250	0.350	0.425			
1-1/2	48.3	57	0.364	0.486	0.858	0.364	0.486	-	0.651	-	-	-	-	-	-	0.300	0.390	0.500	0.658			
2	60.3	76	0.651	0.895	1.610	0.651	0.895	1.120	1.330	-	-	-	-	-	-	0.500	0.690	0.900	1.340			
2-1/2	73.0	95	1.290	1.710	3.050	1.290	1.710	1.480	2.230	-	-	-	-	-	-	0.800	1.340	1.750	2.250			
3	88.9	114	2.030	2.740	4.970	2.030	2.740	2.910	3.830	-	-	-	-	-	-	1.280	2.050	2.770	3.870			
3-1/2	101.6	133	2.820	3.900	7.130	2.820	3.900	-	5.830	-	-	-	-	-	-	1.620	2.870	3.950	5.890			
4	114.3	152	3.850	5.340	9.820	3.850	5.340	6.760	8.030	-	-	-	-	-	-	2.180	3.900	5.420	8.110			
5	141.3	191	6.510	9.260	17.20	6.510	9.260	12.00	14.70	-	-	-	-	-	-	3.960	6.580	9.300	14.80			
6	168.3	229	10.10	15.30	28.40	10.10	15.30	19.50	24.20	-	-	-	-	-	-	5.850	10.20	15.50	24.40			
8	219.1	305	20.40	30.90	51.70	20.40	30.90	43.20	53.30	-	20.40	20.40	-	-	-	10.30	21.60	31.20	-			
10	273.0	381	36.10	48.80	92.80	36.10	57.30	79.50	103.0	-	36.10	36.10	-	-	-	16.80	36.60	49.20	-			
12	323.8	457	53.00	70.00	134.0	57.20	94.70	134.0	171.0	-	53.00	53.00	78.20	134.0	171.0	28.60	53.50	70.70	-			
14	355.6	533	68.10	90.00	-	79.10	132.0	188.0	236.0	68.10	68.10	68.10	106.0	188.0	236.0	36.60	79.90	-	-			
16	406.4	610	89.20	118.0	-	118.0	195.0	274.0	350.0	89.20	89.20	89.20	153.0	274.0	350.0	72.10	180.7	-	-			
18	457.0	686	113.0	150.0	-	168.0	274.0	391.0	495.0	113.0	113.0	150.0	221.0	391.0	440.0	-	-	-	-			
20	508.0	762	140.0	186.0	-	219.0	372.0	528.0	676.0	140.0	140.0	186.0	296.0	528.0	676.0	-	-	-	-			
22	559.0	838	170.0	225.0	-	280.0	492.0	693.0	884.0	170.0	170.0	225.0	-	693.0	884.0	-	-	-	-			
24	610.0	914	202.0	269.0	-	366.0	634.0	918.0	1160	202.0	202.0	269.0	510.0	918.0	1160	-	-	-	-			

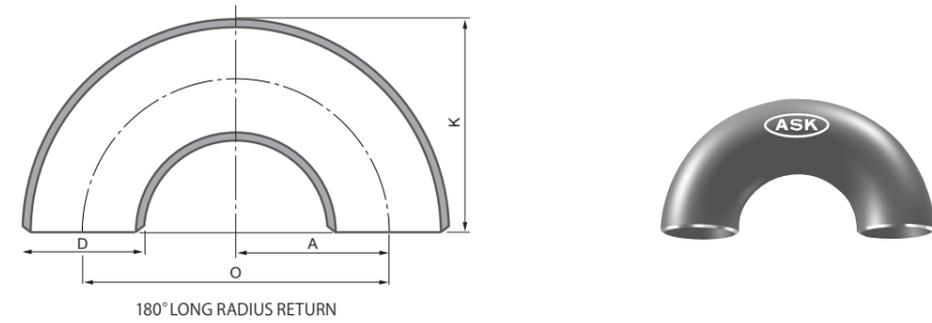
ASME 90°エルボ(ショート)の形状・寸法・重量 / DIMENSIONS OF SHORT RADIUS ELBOW



ASME B 16.9

Nominal Pipe Size (NPS)	Dimensions (Unit:mm)		Carbon & Alloy Steel Weight (Unit:kg)										Stainless Steel Weight (Unit:kg)			
	Outside Diameter at Bevel	Center - to - End 90 Deg Elbow	STD	XS	XXS	S40	S80	S120	S160	S10	S20	S30	S10S	S40S	S80S	S160
	D	A														
1	33.4	25	0.100	0.129	0.217	0.100	0.129	-	0.169	-	-	-	0.110	0.130	0.150	0.200
1-1/4	42.2	32	0.169	0.223	0.388	0.169	0.223	-	0.280	-	-	-	0.180	0.250	0.260	0.280
1-1/2	48.3	38	0.242	0.324	0.572	0.242	0.324	-	0.434	-	-	-	0.200	0.300	0.330	0.440
2	60.3	51	0.434	0.597	1.070	0.434	0.597	-	0.884	-	-	-	0.400	0.450	0.600	0.890
2-1/2	73.0	64	0.861	1.140	2.030	0.861	1.140	-	1.490	-	-	-	0.570	0.960	1.150	1.500
3	88.9	76	1.350	1.830	3.310	1.350	1.830	-	2.550	-	-	-	0.800	1.400	1.840	2.580
3-1/2	101.6	89	1.890	2.600	4.750	1.890	2.600	-	3.890	-	-	-	1.100	2.300	2.630	3.930
4	114.3	102	2.570	3.560	6.550	2.570	3.560	4.500	5.350	-	-	-	1.400	2.800	3.600	5.400
5	141.3	127	4.340	6.170	11.50	4.340	6.170	8.030	9.700	-	-	-	2.400	4.600	6.230	9.800
6	168.3	152	6.770	10.20	19.00	6.770	10.20	13.00	16.20	-	-	-	4.100	7.000	10.30	16.40
8	219.1	203	13.60	20.40	34.40	13.60	20.60	28.90	35.50	-	13.60	13.60	6.700	13.80	20.80	-
10	273.0	254	24.10	32.50	61.80	24.10	38.20	53.00	68.70	-	24.10	24.10	11.20	24.40	32.80	-
12	323.8	305	35.30	46.60	89.50	38.20	63.10	89.50	114.0	-	35.30	35.30	17.50	35.70	47.10	-
14	355.6	356	45.40	60.00	-	52.80	88.30	125.0	157.0	45.40	45.40	45.40	24.40	53.20	-	-
16	406.4	406	59.50	78.70	-	78.70	130.0	183.0	233.0	59.50	59.50	59.50	31.90	79.50	-	-
18	457.0	457	75.50	100.0	-	125.0	183.0	261.0	330.0	75.50	75.50	100.0	-	-	-	-
20	508.0	508	93.40	124.0	-	146.0	248.0	352.0	451.0	93.40	93.40	124.0	-	-	-	-
22	559.0	559	113.0	150.2	-	186.0	328.0	462.0	590.0	113.0	113.0	150.2	-	-	-	-
24	610.0	610	135.0	179.0	-	244.0	422.0	613.0	773.0	135.0	135.0	244.0	-	-	-	-

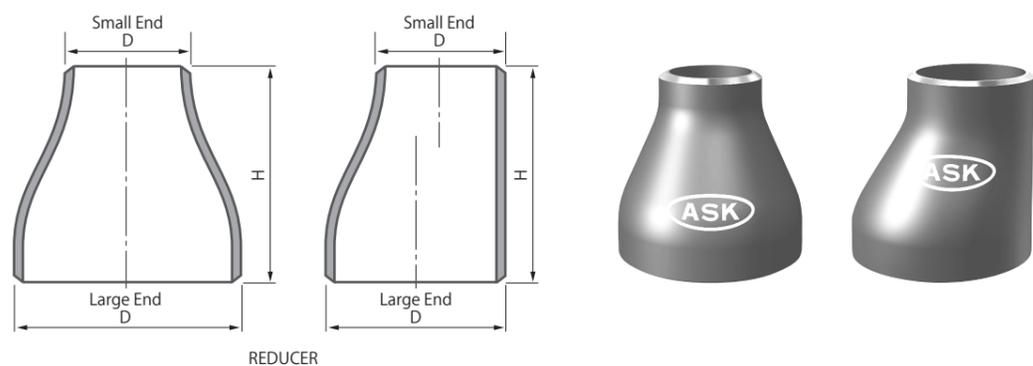
ASME 180°エルボ(ロング)の形状・寸法・重量 / DIMENSIONS OF LONG RADIUS RETURN



ASME B 16.9

Nominal Pipe Size (NPS)	Dimensions (Unit:mm)			Carbon & Alloy Steel Weight (Unit:kg)									
	Outside Diameter at Bevel	Center - to - Center	Back - to - Face	STD	XS	XXS	S40	S80	S120	S160	S10	S20	S30
	D	O	K										
1/2	21.3	76	48	0.152	0.194	0.304	0.152	0.194	-	0.234	-	-	-
3/4	26.7	76	51	0.208	0.268	0.450	0.208	0.268	-	0.352	-	-	-
1	33.4	76	56	0.300	0.388	0.652	0.300	0.388	-	0.506	-	-	-
1-1/4	42.2	95	70	0.508	0.670	1.170	0.508	0.670	-	0.842	-	-	-
1-1/2	48.3	114	83	0.728	0.972	1.720	0.728	0.972	-	1.300	-	-	-
2	60.3	152	106	1.300	1.790	3.220	1.300	1.790	-	2.660	-	-	-
2-1/2	73.0	190	132	2.580	3.420	6.100	2.580	3.420	-	4.460	-	-	-
3	88.9	229	159	4.080	5.480	9.940	4.080	5.480	-	7.660	-	-	-
3-1/2	101.6	267	184	5.680	7.800	14.30	5.680	7.800	-	11.60	-	-	-
4	114.3	305	210	7.700	10.70	19.60	7.700	10.70	13.50	16.00	-	-	-
5	141.3	381	262	13.00	18.50	34.40	13.00	18.50	23.80	29.40	-	-	-
6	168.3	457	313	20.20	30.60	56.80	20.20	30.60	38.20	48.40	-	-	-
8	219.1	610	414	40.80	61.80	103.4	40.80	61.80	85.10	106.0	-	40.80	40.80
10	273.0	762	518	72.20	97.60	185.6	72.20	114.0	155.0	206.0	-	72.20	72.20
12	323.8	914	619	106.0	140.0	268.0	114.0	189.0	264.0	342.0	-	106.0	106.0
14	355.6	1067	711	136.0	180.0	-	158.0	264.0	376.0	472.0	136.0	136.0	136.0
16	406.4	1219	813	178.0	236.0	-	236.0	390.0	548.0	700.0	178.0	178.0	178.0
18	457.0	1372	914	226.0	300.0	-	336.0	548.0	-	-	226.0	226.0	300.0
20	508.0	1524	1016	280.0	372.0	-	438.0	744.0	-	-	280.0	280.0	372.0

ASME レジューサの形状・寸法・重量 / DIMENSIONS OF REDUCER



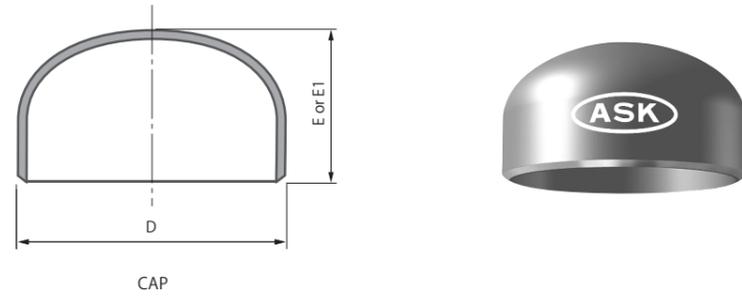
ASME B 16.9

Nominal Pipe Size (NPS)	Dimensions (Unit:mm)			Carbon & Alloy Steel Weight (Unit:kg)												Stainless Steel Weight (Unit:kg)			
	Outside Diameter		End - to - End	STD	XS	XXS	S40	S80	S120	S160	S10	S20	S30	S100	S10S	S40S	S80S	S160	
	Large End	Small End																	
	D	D	H																
3/4 x 1/2	26.7	21.3	38	0.059	0.075	-	0.059	0.075	-	0.150	-	-	-	-	0.070	0.090	0.100	0.110	
1 x 3/4	33.4	26.7	51	0.116	0.147	0.246	0.116	0.147	-	0.200	-	-	-	-	0.100	0.120	0.148	0.200	
x 1/2		21.3		0.105	0.133	0.215	0.105	0.133	-	0.190	-	-	-	-	0.100	0.120	0.134	0.180	
1-1/4 x 1	42.2	33.4	51	0.157	0.195	0.350	0.195	0.206	-	0.257	-	-	-	-	0.130	0.160	0.208	0.260	
x 3/4		26.7		0.155	0.187	0.310	0.187	0.200	-	0.232	-	-	-	-	0.130	0.160	0.189	0.235	
x 1/2		21.3		0.150	0.171	0.279	0.171	0.190	-	0.211	-	-	-	-	0.130	0.160	0.173	0.215	
1-1/2 x 1-1/4	48.3	42.2	64	0.275	0.324	0.567	0.275	0.324	-	0.429	-	-	-	-	0.190	0.250	0.327	0.433	
x 1		33.4		0.260	0.300	0.500	0.260	0.300	-	0.382	-	-	-	-	0.190	0.250	0.294	0.385	
x 3/4		26.7		0.250	0.290	0.449	0.250	0.290	-	0.379	-	-	-	-	0.190	0.250	0.270	0.383	
x 1/2		21.3		0.250	0.290	0.407	0.250	0.290	-	0.319	-	-	-	-	0.190	0.250	0.250	0.322	
2 x 1-1/2	60.3	48.3	76	0.400	0.590	0.909	0.400	0.590	-	0.780	-	-	-	-	0.280	0.380	0.513	0.760	
x 1-1/4		42.2		0.400	0.500	0.851	0.400	0.500	-	0.740	-	-	-	-	0.280	0.380	0.484	0.710	
x 1		33.4		0.390	0.480	0.765	0.390	0.480	-	0.700	-	-	-	-	0.280	0.380	0.442	0.650	
x 3/4		26.7		0.390	0.480	0.699	0.390	0.480	-	0.650	-	-	-	-	0.280	0.380	0.410	0.590	
x 1/2		-		0.380	0.470	0.500	0.380	0.470	-	0.600	-	-	-	-	0.280	0.380	0.400	0.560	
2-1/2 x 2	73.0	60.3	89	0.724	0.946	1.680	0.724	0.946	-	1.230	-	-	-	-	0.440	0.730	0.956	1.240	
x 1-1/2		48.3		0.661	0.900	1.510	0.661	0.900	-	1.120	-	-	-	-	0.440	0.670	0.870	1.130	
x 1-1/4		42.2		0.630	0.860	1.420	0.630	0.860	-	1.060	-	-	-	-	0.440	0.640	0.828	1.070	
x 1		33.4		0.630	0.830	1.300	0.630	0.830	-	0.977	-	-	-	-	0.440	0.590	0.768	0.990	
x 3/4		-		-	-	-	-	-	-	-	-	-	-	-	0.280	0.380	0.410	0.590	
3 x 2-1/2	88.9	73.0	89	1.000	1.250	2.250	1.000	1.250	-	1.750	-	-	-	-	0.530	0.950	1.260	1.770	
x 2		60.3		0.960	1.200	2.010	0.960	1.200	-	1.570	-	-	-	-	0.530	0.860	1.140	1.590	
x 1-1/2		48.3		0.900	1.150	1.830	0.900	1.150	-	1.490	-	-	-	-	0.530	0.790	1.050	1.450	
x 1-1/4		42.2		0.840	1.100	1.750	0.840	1.100	-	1.400	-	-	-	-	0.530	0.760	1.000	1.390	
x 1		26.7		0.800	1.000	1.600	0.800	1.000	-	1.300	-	-	-	-	0.530	0.760	0.960	1.350	
3-1/2 x 3	101.6	88.9	102	1.280	1.770	2.800	1.280	1.770	-	2.640	-	-	-	-	0.700	0.920	1.290	-	
x 2-1/2		73.0		1.230	1.650	2.760	1.230	1.650	-	2.450	-	-	-	-	0.700	0.920	1.240	-	
x 2		60.3		1.100	1.510	2.540	1.100	1.510	-	2.210	-	-	-	-	0.700	0.920	1.110	-	
x 1-1/2		48.3		1.020	1.410	2.400	1.020	1.410	-	2.050	-	-	-	-	0.700	0.920	1.030	-	
x 1-1/4		42.2		0.988	1.350	2.350	0.988	1.350	-	2.100	-	-	-	-	0.700	0.920	1.000	-	
4 x 3-1/2	114.3	101.6	102	1.550	2.200	3.760	1.600	2.200	-	3.250	-	-	-	-	0.800	1.470	2.040	3.040	
x 3		88.9		1.550	2.150	3.650	1.600	2.150	-	3.100	-	-	-	-	0.800	1.470	2.040	3.040	
x 2-1/2		73.0		1.470	2.100	3.410	1.470	2.100	-	3.000	-	-	-	-	0.800	1.390	1.920	2.850	
x 2		60.3		1.400	2.000	3.110	1.400	2.000	-	2.900	-	-	-	-	0.800	1.290	1.780	2.620	
x 1-1/2		48.3		1.350	1.950	2.900	1.350	1.950	-	2.800	-	-	-	-	0.800	1.200	1.670	2.440	
x 1-1/4		42.2		1.300	-	-	-	-	-	-	-	-	-	-	0.780	1.170	1.640	2.400	
x 1		33.5		1.300	-	-	-	-	-	-	-	-	-	-	0.770	1.160	1.620	2.380	

ASME B 16.9

Nominal Pipe Size (NPS)	Dimensions (Unit:mm)			Carbon & Alloy Steel Weight (Unit:kg)												Stainless Steel Weight (Unit:kg)			
	Outside Diameter		End - to - End	STD	XS	XXS	S40	S80	S120	S160	S10	S20	S30	S100	S10S	S40S	S80S	S160	
	Large End	Small End																	
	D	D	H																
5 x 4	141.3	114.3	127	2.800	3.720	6.470	2.800	3.720	4.570	5.700	-	-	-	-	1.490	2.550	3.550	5.630	
x 3-1/2		101.6		2.800	3.720	6.200	2.800	3.720	-	5.700	-	-	-	-	1.490	2.550	3.550	5.630	
x 3		88.9		2.760	3.700	5.780	2.760	3.700	-	5.650	-	-	-	-	1.450	2.300	3.210	5.050	
x 2-1/2		73.0		2.600	3.350	5.460	2.600	3.350	-	5.200	-	-	-	-	1.400	2.190	3.050	4.780	
x 2		60.3		2.470	3.200	5.300	2.470	3.200	-	5.000	-	-	-	-	1.300	2.050	2.860	4.440	
6 x 5	168.3	141.3	140	5.000	5.780	9.890	3.800	5.780	6.830	8.450	-	-	-	-	2.020	3.650	5.430	8.530	
x 4		114.3		3.800	5.500	8.980	3.800	5.500	6.280	7.750	-	-	-	-	1.950	3.350	5.010	7.830	
x 3-1/2		101.6		3.750	5.300	8.400	3.750	5.300	-	7.410	-	-	-	-	1.950	3.350	5.010	7.830	
x 3		88.9		3.700	5.160	8.210	3.700	5.160	-	7.080	-	-	-	-	1.820	3.070	4.610	7.150	
x 2-1/2		73.0		3.480	5.000	7.830	3.480	5.000	-	6.750	-	-	-	-	1.750	2.950	4.400	6.820	
x 2		60.3		3.400	-	-	-	-	-	-	-	-	-	-	1.700	2.920	4.300	6.700	
8 x 6	219.1	168.3	152	6.650	9.250	15.40	6.650	9.250	12.80	14.70	-	6.650	-	-	3.190	5.800	8.750	-	
x 5		141.3		6.400	8.900	14.50	6.400	8.900	12.20	13.80	-	6.400	-	-	3.080	5.550	8.250	-	
x 4		114.3		6.000	8.500	13.60	6.000	8.500	11.60	12.90	-	6.000	-	-	3.010	5.170	7.800	-	
x 3-1/2		101.6		5.200	7.800	-	5.200	7.800	-	12.60	-	5.200	-	-	3.010	5.170	7.800	-	
x 3		88.9		5.200	7.800	-	-	-	-	-	-	-	-	-	2.900	5.000	7.400	-	
10 x 8	273.0	219.1	178	11.20	13.70	25.00	11.20	15.70	21.30	27.00	-	11.20	11.20	21.30	5.200	9.700	12.90	-	
x 6		168.3		10.90	13.50	22.70	10.90	14.60	19.30	24.50	-	10.90	-	19.30	5.000	8.900	12.30	-	
x 5		141.3		10.00	13.00	21.50	10.00	14.10	18.10	23.30	-	10.00	-	18.10	4.890	8.600	11.60	-	
x 4		114.3		9.800	12.70	20.50	9.800	13.80	17.30	22.10	-	9.800	-	17.30	4.800	8.300	11.40	-	
12 x 10	323.8	273.0	203	14.00	19.00	34.50	15.90	23.00	34.00	43.60	-	14.00	14.00	34.00	7.980	13.80	18.20	-	
x 8		219.1		13.80	17.80	32.20	15.80	21.00	31.70	40.30	-	13.80	13.80	31.70	7.620	12.90	16.80	-	
x 6		168.3		13.60	17.20	30.00	15.70	18.60	29.40	37.20	-	13.60	-	29.40	7.430	12.10	15.70	-	
x 5		141.3		13.00	16.00	28.70	15.20	18.00	28.30	35.70	-	13.00	-	28.30	7.250	11.80	15.00	-	
14 x 12	355.6	323.8	330	25.40	31.00	-	29.50	49.30	70.10	87.70	-	25.40	25.40	-	-	-	-	-	
x 10		273.0		23.60	29.40	-	28.40	45.70	64.70	80.90	-	23.60	23.60	-	-	-	-	-	
x 8		219.1		23.0															

ASME キャップの形状・寸法・重量 / DIMENSIONS OF CAP



ASME B 16.9

Nominal Pipe Size (NPS)	Dimensions (Unit:mm)				Carbon & Alloy Steel Weight (Unit:kg)										Stainless Steel Weight (Unit:kg)			
	Outside Diameter at Bevel	Length (1)	Limiting wall Thickness For Length	Length (2)	STD	XS	XXS	S40	S80	S120	S160	S10	S20	S30	S10S	S40S	S80S	S160
	D	E	E	E1														
1/2	21.3	25	4.57	25	0.100	0.150	-	0.100	0.150	-	0.220	-	-	-	0.078	0.100	0.150	-
3/4	26.7	25	3.81	25	0.100	0.150	-	0.100	0.150	-	0.220	-	-	-	0.078	0.100	0.150	-
1	33.4	38	4.57	38	0.109	0.165	-	0.109	0.165	-	0.230	-	-	-	0.090	0.110	0.167	-
1-1/4	42.2	38	4.83	38	0.145	0.197	-	0.145	0.197	-	0.260	-	-	-	0.110	0.146	0.199	-
1-1/2	48.3	38	5.08	38	0.171	0.236	-	0.171	0.236	-	0.340	-	-	-	0.130	0.172	0.238	-
2	60.3	38	5.59	44	0.234	0.330	-	0.234	0.330	-	0.520	-	-	-	0.170	0.240	0.330	1.550
2-1/2	73.0	38	7.11	51	0.420	0.565	-	0.420	0.565	-	0.770	-	-	-	0.245	0.420	0.565	2.840
3	88.9	51	7.62	64	0.664	0.917	-	0.664	0.917	-	1.350	-	-	-	0.365	0.670	0.917	3.780
3-1/2	101.6	64	8.13	76	0.958	1.360	-	0.958	1.360	-	-	-	-	-	-	-	-	-
4	114.3	64	8.64	76	1.170	1.680	-	1.170	1.680	2.680	2.520	-	-	-	0.591	1.180	1.680	6.780
5	141.3	76	9.65	89	1.900	2.730	-	1.900	2.730	4.350	4.100	-	-	-	0.990	1.920	2.730	10.70
6	168.3	89	10.92	102	2.830	4.380	-	2.830	4.380	6.280	6.580	-	-	-	1.370	2.850	4.380	17.95
8	219.1	102	12.70	127	5.110	7.910	-	5.110	7.910	13.20	16.70	-	5.190	5.190	2.520	5.160	7.910	-
10	273.0	127	12.70	152	8.920	12.20	-	8.920	16.40	23.30	33.40	-	6.330	9.150	3.870	9.000	13.80	-
12	323.8	152	12.70	178	13.00	17.40	-	14.10	26.40	38.60	50.60	-	9.430	13.30	6.890	13.20	19.50	-
14	355.6	165	12.70	191	15.90	21.20	-	18.60	34.90	51.10	65.60	16.60	13.20	15.90	-	-	-	-
16	406.4	178	12.70	203	20.00	26.70	-	26.70	49.00	70.80	92.80	21.20	16.60	20.00	-	-	-	-
18	457.0	203	12.70	229	25.50	34.10	-	41.50	69.00	101.0	131.0	31.90	21.20	25.60	-	-	-	-
20	508.0	229	12.70	254	31.80	42.50	-	54.10	93.80	136.0	179.0	31.90	31.90	50.40	-	-	-	-
22	559.0	254	12.70	254	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	610.0	267	12.70	305	45.10	60.10	-	89.70	160.0	237.0	306.0	45.10	45.10	82.70	-	-	-	-

NOTES:
 (1) Length E applies for thickness not exceeding that given in column "Limiting Wall Thickness for Length E".
 (2) Length E1 applies for thickness greater than that given in column "Limiting Wall Thickness" for NPS24 and smaller.



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