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KC, KS, JIS 표시인증업체
(KCW-2021-0084)
(KS B 1543)
(JIS B 2313)



DAE YOUNG BEND

스테인레스 피팅의 대표주자

Elbow / Tee / Reducer / Cap





GROOVE FITTINGS



GROOVE JOINT



PIPE GROOVING MACHINES



AUTOMATIC PIPE GROOVING MACHINES

DAE YOUNG BEND CO., LTD.

DAE YOUNG BEND
스테인레스 피팅의 대표주자

브랜드의 가치와 고객의 마음을 아는 기업 ㈜대영벤드는
창립부터 현재까지 지속적인 성장세를 이어오고 있으며, 국내외 유수의 플랜트 건설,
연구단지, 화학단지, 신도시 건설사업 등에 당사의 우수한 제품과 기계를 공급하며
전 세계를 무대로 종합 배관자재 기업으로 발전하고 있습니다.

㈜대영벤드는 "고객 만족과 품질로 승부하자"라는 말을
가슴속에 새기고 우수한 제품을 공급하기 위해 최선을 다하고 있습니다.

당사는 스테인레스 관이음쇠와 그루브 관이음쇠를 생산하고, 파이프 홈가공기와 기타 특수기계들을
전문 제작하는 제조사로서 꾸준한 기술 개발과, 혁신적인 자동화 시스템을 통해
업계 최고의 품질과 합리적인 가격 그리고 철저한 사후관리와
신속한 물류 시스템으로, 고객분들께 최고의 만족을 드리는
신뢰받는 기업으로 성장하겠습니다.

㈜대영벤드는 항상 고객의 소리에 귀를 기울이며 주의 깊게 살펴볼 것입니다.
지금까지 저희를 응원해 주셨듯이 앞으로도 많은 관심과 격려를 부탁드립니다.

(주)대영벤드 임직원 일동



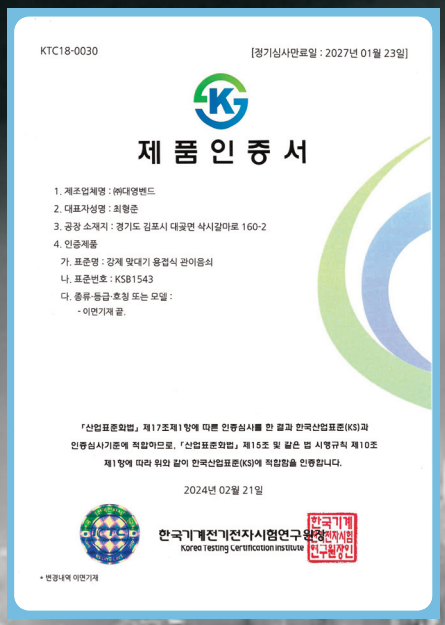
연혁 / History

1997. 06. 01.	**대영 엔지니어링 설립** (기계제작)
1999. 10. 25.	**공장이전** (인천시 서구, 당하동)
2000. 12. 26.	**특허출원** : PIPE 연결용 홈가공기 (제 0215748호)
2001. 06. 20.	**특허출원** : 홈가공기에 있어서의 성형롤러 이동거리제어장치 (제 0236533호)
2003. 08. 01.	**배관용 강판제 맞대기 용접식 관 이음쇠 생산개시**
2005. 03. 15.	**특허출원** : PIPE 절단장치 (제 379788호)
2006. 02.	**공장신축 이전** (경기도 김포시 양촌면 981-9)
2007. 04. 25.	**KS Q ISO 9001:2007/ISO 9001:2000 획득**
2007. 11. 14	**한국산업표시규격 인증 (KS B 1543)**
2008. 05. 16.	**상호변경** (대영엔지니어링 -> **대영벤드**)
2009. 05. 11.	**경영혁신형 중소기업 인증**
2010. 08. 09.	**공장 신축이전** (경기도 김포시 대곶면 삭시갈마로 160-2)
2010. 10. 15.	**기술혁신형 중소기업등록 (INNO-BIZ)**
2011. 04. 06.	**한국산업표시규격 추가품목 인증**
2011. 12. 26.	**KC 위생안전기준 인증** (배관용 강판제 맞대기 용접식 관이음쇠)
2012. 08. 06	**일반배관용 스테인리스 강제 맞대기 용접식 관이음쇠 생산개시**
2012. 08. 14.	**벤처기업등록**
2012. 10. 31.	**한국 산업표준 종류등급 추가 인증 (KS B 1543)**
2013. 06. 25.	**일본산업규격 인증 (JIS B 2309, JIS B 2313)**
2013. 11. 22	**기업부설연구소 설립**
2014. 07. 16	**특허출원** : 파이프 연결구 (제 1422333호)
2014. 12. 31.	경기도 김포시 **중소기업 대상 수상**
2015. 06. 24	**디자인등록** : 파이프 커플링 (제 803392호)
2015. 11. 05	**특허등록** : 클램프형 무용접 파이프 이음장치 (제 1568325호)
2015. 12. 15	**특허등록** : 이중관 파이프 체결구 (제 1579403호)
2016. 11. 01	**특허등록** : 힌지를 이용한 파이프를 체결하는 체결구 및 어셈블리 (제 1673243호)
2018. 03. 07	**특허등록** : 펌프압력 유지를 통한 홈 가공기 및 이의 작동방법 (제 1838007호)
2019. 01. 02	**특허등록** : 곡관 성형장치 (제 1936269호)
2019. 03. 12	**특허등록** : 면진장치의 설치를 위한 이중마루용 바닥지지체 (제 1960276호)
2020. 01. 10	**KC 위생안전기준 인증 획득** (그루브 이음관)
2020. 07. 22	**한국산업표준 종류등급 추가 인증 (KS B 1543)**
2021. 01. 27	**한국산업표준 정기심사 인증 (KS B 1543)**
2021. 03. 19	**KC 위생안전기준 인증** (강제 맞대기 용접식 관이음쇠)
2022. 05. 20	**KC 위생안전기준 정기심사 인증** (그루브 이음관)
2022. 06. 20	**일본산업규격 정기심사 인증**
2023. 06. 23	**KC 위생안전기준 정기심사 인증** (강제 맞대기 용접식 관이음쇠)
2023. 08. 29	**특허등록** : 곡관 파이프 면취장치 (제 2573828호)
2023. 09. 01	**KS Q ISO 9001:2015 / KS I ISO 14001:2015 인증**
2024. 02. 21	**한국산업표준 정기심사 인증 (KS B 1543)**
2024. 04. 19	**KC 위생안전기준 정기심사 인증** (그루브 이음관)
2024. 02. 21	**한국산업표준 정기심사 인증 (KS B 1543)**
2024. 07. 08	**디자인등록** : 한벌의 곡관 파이프 면취기용 지그 (제 1267560호)
2024. 09. 03	**KS Q ISO 45001:2018 인증**
2025. 05. 16	**KC 위생안전기준 정기심사 인증** (강제 맞대기 용접식 관이음쇠)
2025. 05. 20	**일본산업규격 정기심사 인증**
2025. 08. 27	**ISO 9001, 14001, 45001 사후심사 인증**
2026. 01. 05	**원산지 인증수출자 인증**(베트남, 아세안, EU)
2026. 02. 13	**KC 위생안전기준 정기심사 인증** (그루브 이음관)



STAINLESS STEEL BUTT-WELDING PIPE FITTINGS

DAE YOUNG BEND


KTC18-0030 [정기심사만료일 : 2027년 01월 23일]

제 품 인 증 서

1. 제조업체명 : ㈜대영벤드
2. 대표자성명 : 최형준
3. 공장 소재지 : 경기도 김포시 대곶면 삭시갈마로 160-2
4. 인증제품
   가. 표준명 : 강제 맞대기 용접식 관이음쇠
   나. 표준번호 : KSB1543
   다. 종류·등급·호칭 또는 모델 :
   - 이면기재 끝.

「산업표준화법」 제17조제1항에 따른 인증심사를 한 결과 한국산업표준(KS)과 인증심사기준에 적합하므로, 「산업표준화법」 제15조 및 같은 법 시행규칙 제10조 제1항에 따라 위와 같이 한국산업표준(KS)에 적합함을 인증합니다.

2024년 02월 21일

한국기계전기전자시험연구원장 (Korea Testing Certification Institute)

* 변경내역 이면기재


위생안전기준 인증서

1. 인증번호 :KCW-2021-0084
2. 제조업체명 :(주)대영벤드
3. 대표자 : 최형준
4. 본사 주소 : (10046) 경기도 김포시 대곶면 삭시갈마로 160-2, (주) 대영벤드
5. 공장 소재지 : (10046) 경기도 김포시 대곶면 삭시갈마로 160-2, (주) 대영벤드
6. 제품명 : 강제 맞대기 용접식 관이음쇠
7. 용도 : [ ] 표층용재료 [ ] 말단급수설비 [ ] 급수설비 [✓] 일반수도용자재

「수도법」 제14조제1항 및 「수도용 자재와 제품의 위생안전기준 인증 등에 관한 규칙」 제8조제1항에 따라 위생안전기준 인증서를 발급합니다.

2021년 03월 19일

한국물기술인증원장


위생안전기준 인증서

1. 인증번호 :KCW-2020-0001
2. 제조업체명 :(주)대영벤드
3. 대표자 : 최형준
4. 본사 주소 : (10046) 경기도 김포시 대곶면 삭시갈마로 160-2
5. 공장 소재지 : (10046) 경기도 김포시 대곶면 삭시갈마로 160-2, (주) 대영벤드
6. 제품명 : 그루브 이음관
7. 용도 : [✓] 일반수도용자재 [ ] 급수설비 [ ] 말단급수설비 [ ] 표층용재료 [ ] 실링류
8. 최초인증일 : 2020-01-10
9. 정기검사 신청 기한 : 2028-01-09

「수도법」 제14조제1항 및 「수도용 자재와 제품의 위생안전기준 인증 등에 관한 규칙」 제8조제1항에 따라 위생안전기준 인증서를 발급합니다.

2020년 01월 10일

한국물기술인증원장


Certificate of Registration

This is to certify that :
DAEYOUNG BEND CO., LTD.
160-2, Saksigalma-ro, Daegot-myeon, Gimpo-si, Gyeonggi-do, Republic of Korea

Has been assessed by International Certification Registrar Ltd., in respect of their Quality Management Systems and found to comply with
KS Q ISO 9001:2015 / ISO 9001:2015
Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times.

Certification Scope
Manufacture of butt weld pipe fittings, grooved fittings, grooved joints and pipe grooving machines

Certification Date : 01st September 2023 Initial Issued Date : 01st September 2023
Certificate Issue Date :01st September 2023 Expiration Date : 31st August 2026
Certificate No. : QK012824
※ This certificate is valid by completion of surveillance audit which is conducted within 12 months from the certification date.
※ Refer to appendix for detailed activities and location of each sites.
※ Non-applicable Requirement : 8.3
The Seal of ICR Limited was here to affixed in the presence of :
President


Certificate of Registration

This is to certify that :
DAEYOUNG BEND CO., LTD.
160-2, Saksigalma-ro, Daegot-myeon, Gimpo-si, Gyeonggi-do, Republic of Korea

Has been assessed by International Certification Registrar Ltd., in respect of their Environmental Management Systems and found to comply with
KS I ISO 14001:2015 / ISO 14001:2015
Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times.

Certification Scope
Manufacture of butt weld pipe fittings, grooved fittings, grooved joints and pipe grooving machines

Certification Date : 01st September 2023 Initial Issued Date : 01st September 2023
Certificate Issue Date :01st September 2023 Expiration Date : 31st August 2026
Certificate No. : EK009124
※ This certificate is valid by completion of surveillance audit which is conducted within 12 months from the certification date.
※ Refer to appendix for detailed activities and location of each sites.
The Seal of ICR Limited was here to affixed in the presence of :
President


Certificate of Registration

This is to certify that :
DAEYOUNG BEND CO., LTD
160-2, Saksigalma-ro, Daegot-myeon, Gimpo-si, Gyeonggi-do, Republic of Korea

Has been assessed by International Certification Registrar Ltd., in respect of their Occupational Health and Safety Management Systems and found to comply with
KS Q ISO 45001:2018 / ISO 45001:2018
Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times.

Certification Scope
Manufacture of butt weld pipe fittings, grooved fittings, grooved joints and pipe grooving machines

Certification Date : 03rdSeptember 2024 Initial Issued Date : 03rdSeptember 2024
Certificate Issue Date :03rdSeptember 2024 Expiration Date : 02ndSeptember 2027
Certificate No. : OHK019224
※ This certificate is valid by completion of surveillance audit which is conducted within 12 months from the certification date.
※ Refer to appendix for detailed activities and location of each sites.
The Seal of ICR Limited was here to affixed in the presence of :
President


JIS

日本産業規格表示認証書

認証番号 CRKR13005

株式会社 大英バンド 殿

産業標準化法第37条第1項の規定により日本産業規格の表示について下記のように認証する。

(認証) 2013年 06月 25日
(再交付) 2025年 06月 20日
(外国登録認証機関 登録番号000701)

韓国化学融合試験研究院長

記

認証取得者の氏名又は名称及び住所 株式会社 大英バンド 大韓民国 京畿道 金浦市 大帝面 サクシガルマ路 160-2

認証に係る日本産業規格の番号及び日本産業規格に規定されている場合は種類又は等級 JIS B 2313

鉱工業品又は加工技術の名称 配管用鋼板製突合せ溶接式管継手

認証の区分 認証の区分：別紙参照 認証の範囲：別紙参照

認証に係るすべての工場又は事業場の名称及び所在地 株式会社 大英バンド 大韓民国 京畿道 金浦市 大帝面 サクシガルマ路 160-2

認証有効期間 2028年 06月 20日

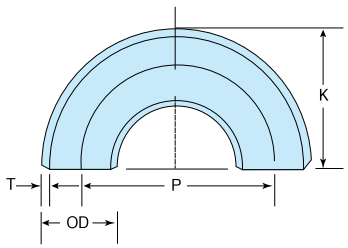
INDEX

5 (KS/JIS) 90° ELBOW(LONG, SHORT), 45° ELBOW(LONG, SHORT), 180° ELBOW(LONG, SHORT)
6 (KS/JIS) TEE(STRAIGHT, REDUCING)
8 (KS/JIS) REDUCER(CONCENTRIC, ECCENTRIC)
10 CAP & LAP JOINT-STUB END
12 DIMENSIONAL TOLERANCES FOR STAINLESS STEEL
14 WELDING END PREPERATIONS
15 STAINLESS GROOVED FITTINGS
18 PIPE GROOVING MACHINES
19 GROOVING CHART

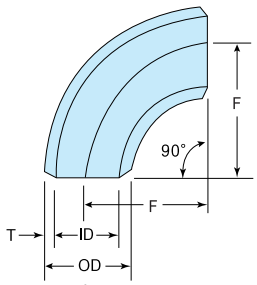
STAINLESS STEEL
BUTT-WELDING PIPE FITTINGS (Elbow)

Sch 5S, 10S, 20S, 40S

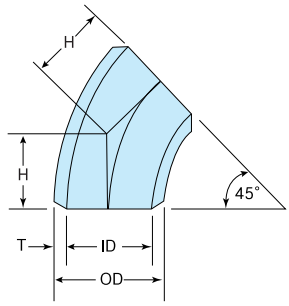
KS
JIS



180° Elbow
(Long, Short)



90° Elbow
(Long, Short)



45° Elbow
(Long, Short)

LONG KS B 1543, JIS B 2313

Unit : mm

Nominal Size		OD	Wall Thickness				F	H	P	K	Approx Weight (kg)			
A	B		5S	10S	20S	40S					5S	10S	20S	40S
15	1/2	21.7	1.65	2.1	2.5	2.8	38.1	15.8	76.2	49.0	0.049	0.061	0.071	0.078
20	3/4	27.2	1.65	2.1	2.5	2.9	38.1	15.8	76.2	51.7	0.062	0.078	0.091	0.104
25	1	34.0	1.65	2.8	3.0	3.4	38.1	15.8	76.2	55.1	0.079	0.129	0.137	0.153
32	1 1/4	42.7	1.65	2.8	3.0	3.6	47.6	19.7	95.2	69.0	0.125	0.206	0.219	0.259
40	1 1/2	48.6	1.65	2.8	3.0	3.7	57.2	23.7	114.4	81.5	0.171	0.284	0.303	0.368
50	2	60.5	1.65	2.8	3.5	3.9	76.2	31.6	152.4	106.5	0.286	0.476	0.588	0.651
65	2 1/2	76.3	2.1	3.0	3.5	5.2	95.3	39.5	190.6	133.5	0.575	0.811	0.940	1.36
80	3	89.1	2.1	3.0	4.0	5.5	114.3	47.3	228.6	158.9	0.808	1.14	1.51	2.03
90	3 1/2	101.6	2.1	3.0	4.0	5.7	133.4	55.3	266.8	184.2	1.08	1.53	2.02	2.82
100	4	114.3	2.1	3.0	4.0	6.0	152.4	63.1	304.8	209.6	1.39	1.97	2.60	3.83
125	5	139.8	2.8	3.4	5.0	6.6	190.5	78.9	381.0	260.4	2.83	3.42	4.97	6.48
150	6	165.2	2.8	3.4	5.0	7.1	228.6	94.7	457.2	311.2	4.02	4.87	7.09	9.93
200	8	216.3	2.8	4.0	6.5	8.2	304.8	126.3	609.6	413.0	7.05	10.0	16.1	20.1
250	10	267.4	3.4	4.0	6.5	9.3	381.0	157.8	762.0	514.7	13.2	16.6	25.0	35.4
300	12	318.5	4.0	4.5	6.5	10.3	457.2	189.4	914.4	616.5	22.3	25.9	35.9	56.2
350	14	355.6	4.0	4.8	7.9	11.1	533.4	220.9	1066.8	711.2	28.8	34.6	56.9	79.1
400	16	406.4	4.2	4.8	7.9	12.7	609.6	252.5	1219.2	812.8	39.7	45.3	74.5	118.0
450	18	457.2	4.2	4.8	7.9	14.3	685.8	284.1	1371.6	914.4	50.3	57.3	94.5	169.0
500	20	508.0	4.8	5.5	7.9	15.1	762.0	315.6	1524.0	1016.0	70.8	82.0	117.0	210.0
550	22	558.8	4.8	5.5	9.5	15.9	838.2	347.2	1676.4	1117.6	85.9	99.5	170.0	267.0
600	24	609.6	5.5	6.4	9.5	17.5	914.4	378.7	1828.8	1219.2	118.0	136.0	202.0	366.0

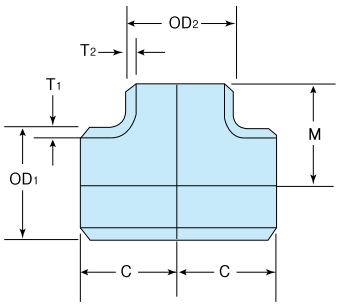
SHORT

Unit : mm

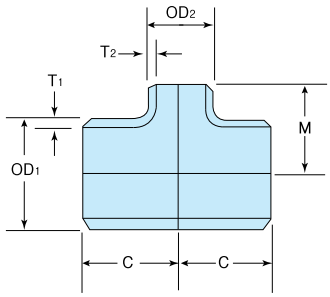
Nominal Size		OD	Wall Thickness				F	H	P	K	Approx Weight (kg)			
A	B		5S	10S	20S	40S					5S	10S	20S	40S
25	1	34.0	1.65	2.8	3.0	3.4	25.4	-	50.8	42.4	0.053	0.086	0.091	0.102
32	1 1/4	42.7	1.65	2.8	3.0	3.6	31.8	-	63.6	53.2	0.083	0.137	0.147	0.173
40	1 1/2	48.6	1.65	2.8	3.0	3.7	38.1	15.8	76.2	62.4	0.114	0.189	0.202	0.245
50	2	60.5	1.65	2.8	3.5	3.9	50.8	21.0	101.6	81.1	0.191	0.318	0.392	0.434
65	2 1/2	76.3	2.1	3.0	3.5	5.2	63.5	26.3	127.0	101.7	0.383	0.540	0.626	0.909
80	3	89.1	2.1	3.0	4.0	5.5	76.2	31.6	152.4	120.8	0.539	0.762	1.00	1.36
90	3 1/2	101.6	2.1	3.0	4.0	5.7	88.9	36.8	177.8	139.7	0.719	1.02	1.34	1.88
100	4	114.3	2.1	3.0	4.0	6.0	101.6	42.1	203.2	158.8	0.926	1.31	1.73	2.55
125	5	139.8	2.8	3.4	5.0	6.6	127.0	52.6	254.0	196.9	1.89	2.28	3.31	4.32
150	6	165.2	2.8	3.4	5.0	7.1	152.4	63.1	304.8	235.0	2.68	3.24	4.72	6.62
200	8	216.3	2.8	4.0	6.5	8.2	203.2	84.2	406.4	311.4	4.70	6.68	10.7	13.4
250	10	267.4	3.4	4.0	6.5	9.3	254.0	105.2	508.0	387.7	8.82	10.4	16.7	23.6
300	12	318.5	4.0	4.5	6.5	10.3	304.8	126.2	609.6	464.1	14.8	16.7	23.9	37.4
350	14	355.6	4.0	4.8	7.9	11.1	355.6	147.3	711.2	533.4	19.2	23.1	37.8	53.0
400	16	406.4	4.2	4.8	7.9	12.7	406.4	168.3	812.8	609.6	26.3	30.2	49.5	79.0
450	18	457.2	4.2	4.8	7.9	14.3	457.2	189.4	914.4	685.8	33.6	38.2	62.8	113.0
500	20	508.0	4.8	5.5	7.9	15.1	508.0	210.4	1016.0	762.0	47.2	54.7	77.7	147.0
550	22	558.8	4.8	5.5	9.5	15.9	558.8	231.5	1117.6	838.2	57.3	66.3	114.0	178.0
600	24	609.6	5.5	6.4	9.5	17.5	609.6	252.5	1219.2	914.4	79.0	90.4	135.0	244.0

STAINLESS STEEL
BUTT-WELDING PIPE FITTINGS (Tee)

KS
JIS



Straight



Reducing

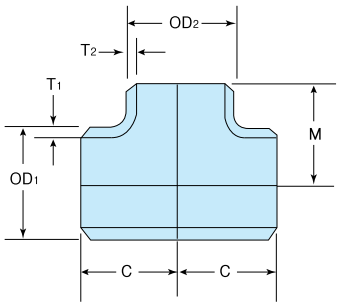
TEE / Sch.10s / Sch.20s / Sch.40s

KS B 1543, JIS B 2313

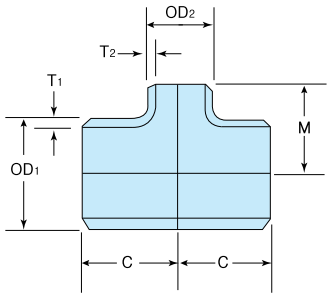
Unit : mm

Nominal PipeSize		Outside Diameter		Wall Thickness (T)						End to End		Weight (kg)		
				Sch.10S		Sch.20S		Sch.40S						
A	B	OD_1	OD_2	T_1	T_2	T_1	T_2	T_1	T_2	C	M	Sch.10S	Sch.20S	Sch.40S
15×15	1/2 × 1/2	21.7	21.7	2.1	2.1	2.5	2.5	2.8	2.8	25.4	25.4	0.07	0.08	0.09
20×20	3/4 × 3/4	27.2	27.2	2.1	2.1	2.5	2.5	2.9	2.9	28.6	28.6	0.09	0.11	0.13
20×15	1/2	27.2	21.7	2.1	2.1	2.5	2.5	2.9	2.8	28.6	28.6	0.07	0.09	0.10
25×25	1 × 1	34.0	34.0	2.8	2.8	3.0	3.0	3.4	3.4	38.1	38.1	0.21	0.22	0.25
25×20	3/4	34.0	27.2	2.8	2.1	3.0	2.5	3.4	2.9	38.1	38.1	0.16	0.16	0.17
25×15	1/2	34.0	21.7	2.8	2.1	3.0	2.5	3.4	2.8	38.1	38.1	0.16	0.16	0.16
32×32	1 1/4 × 1 1/14	42.7	42.7	2.8	2.8	3.0	3.0	3.6	3.6	47.6	47.6	0.34	0.36	0.42
32×25	1	42.7	34.0	2.8	2.8	3.0	3.0	3.6	3.4	47.6	47.6	0.32	0.34	0.40
32×20	3/4	42.7	27.2	2.8	2.1	3.0	2.5	3.6	2.9	47.6	47.6	0.28	0.31	0.33
32×15	1/2	42.7	21.7	2.8	2.1	3.0	2.5	3.6	2.8	47.6	47.6	0.29	0.31	0.37
40×40	1 1/2 × 1 1/2	48.6	48.6	2.8	2.8	3.0	3.0	3.7	3.7	57.2	57.2	0.47	0.50	0.60
40×32	1 1/4	48.6	42.7	2.8	2.8	3.0	3.0	3.7	3.6	57.2	57.2	0.45	0.48	0.58
40×25	1	48.6	34.0	2.8	2.8	3.0	3.0	3.7	3.4	57.2	57.2	0.43	0.46	0.55
40×20	3/4	48.6	27.2	2.8	2.1	3.0	2.5	3.7	2.9	57.2	57.2	0.37	0.43	0.47
40×15	1/2	48.6	21.7	2.8	2.1	3.0	2.5	3.7	2.8	57.2	57.2	0.40	0.43	0.51
50×50	2 × 2	60.5	60.5	2.8	2.8	3.5	3.5	3.9	3.9	63.5	63.5	0.64	0.79	0.87
50×40	1 1/2	60.5	48.6	2.8	2.8	3.5	3.0	3.9	3.7	63.5	60.3	0.60	0.73	0.81
50×32	1 1/4	60.5	42.7	2.8	2.8	3.5	3.0	3.9	3.6	63.5	57.2	0.58	0.70	0.79
50×25	1	60.5	34.0	2.8	2.8	3.5	3.0	3.9	3.4	63.5	50.8	0.55	0.67	0.74
50×20	3/4	60.5	27.2	2.8	2.1	3.5	2.5	3.9	2.9	63.5	44.5	0.45	0.59	0.68
65×65	2 1/2 × 2 1/2	76.3	76.3	3.0	3.0	3.5	3.5	5.2	5.2	76.2	76.2	1.03	1.20	1.74
65×50	2	76.3	60.5	3.0	2.8	3.5	3.5	5.2	3.9	76.2	69.9	0.95	1.11	1.56
65×40	1 1/2	76.3	48.6	3.0	2.8	3.5	3.0	5.2	3.7	76.2	66.7	0.92	1.05	1.51
65×32	1 1/4	76.3	42.7	3.0	2.8	3.5	3.0	5.2	3.6	76.2	63.5	0.90	1.03	1.48
65×25	1	76.3	34.0	3.0	2.8	3.5	3.0	5.2	3.4	76.2	57.2	0.87	1.00	1.44
80×80	3 × 3	89.1	89.1	3.0	3.0	4.0	4.0	5.5	5.5	85.7	85.7	1.35	1.78	2.41
80×65	2 1/2	89.1	76.3	3.0	3.0	4.0	3.5	5.5	5.2	85.7	82.6	1.30	1.68	2.29
80×50	2	89.1	60.5	3.0	2.8	4.0	3.5	5.5	3.9	85.7	76.2	1.22	1.59	2.12
80×40	1 1/2	89.1	48.6	3.0	2.8	4.0	3.0	5.5	3.7	85.7	73.0	1.18	1.53	2.06
80×32	1 1/4	89.1	42.7	3.0	2.8	4.0	3.0	5.5	3.6	85.7	69.9	1.16	1.51	2.03
100×100	4 × 4	114.3	114.3	3.0	3.0	4.0	4.0	6.0	6.0	104.8	104.8	2.12	2.80	4.12
100× 80	3	114.3	89.1	3.0	3.0	4.0	4.0	6.0	5.5	104.8	98.4	1.99	2.68	3.83
100× 65	2 1/2	114.3	76.3	3.0	3.0	4.0	3.5	6.0	5.2	104.8	95.3	1.93	2.52	3.71
100× 50	2	114.3	60.5	3.0	2.8	4.0	3.5	6.0	3.9	104.8	88.9	1.85	2.44	3.53
100× 40	1 1/2	114.3	48.6	3.0	2.8	4.0	3.0	6.0	3.7	104.8	85.7	1.82	2.38	3.47
125×125	5 × 5	139.8	139.8	3.4	3.4	5.0	5.0	6.6	6.6	123.8	123.8	3.45	5.01	6.54
125×100	4	139.8	114.3	3.4	3.0	5.0	4.0	6.6	6.0	123.8	117.5	3.22	4.63	6.13
125× 80	3	139.8	89.1	3.4	3.0	5.0	4.0	6.6	5.5	123.8	111.1	3.09	4.49	5.83
125× 65	2 1/2	139.8	76.3	3.4	3.0	5.0	3.5	6.6	5.2	123.8	108.0	3.04	4.35	5.71
125× 50	2	139.8	60.5	3.4	2.8	5.0	3.5	6.6	3.9	123.8	104.8	2.97	4.29	5.56
150×150	6 × 6	165.2	165.2	3.4	3.4	5.0	5.0	7.1	7.1	142.9	142.9	4.70	6.84	9.58
150×125	5	165.2	139.8	3.4	3.4	5.0	5.0	7.1	6.6	142.9	136.5	4.49	6.54	9.08
150×100	4	165.2	114.3	3.4	3.0	5.0	4.0	7.1	6.0	142.9	130.2	4.27	6.16	8.67
150× 80	3	165.2	89.1	3.4	3.0	5.0	4.0	7.1	5.5	142.9	123.8	4.14	5.99	8.38

STAINLESS STEEL
BUTT-WELDING PIPE FITTINGS (Tee)



Straight



Reducing

TEE / Sch.10s / Sch.20s / Sch.40s

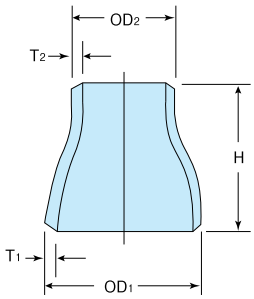
KS B 1543, JIS B 2313

Unit : mm

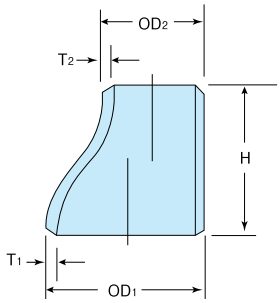
Nominal PipeSize			Outside Diameter		Wall Thickness (T)						End to End		Weight (kg)		
					Sch.10S		Sch.20S		Sch.40S						
A	B		OD_1	OD_2	T_1	T_2	T_1	T_2	T_1	T_2	C	M	Sch.10S	Sch.20S	Sch.40S
150× 65	2 1/2		165.2	76.3	3.4	3.0	5.0	3.5	7.1	5.2	142.9	120.7	4.08	5.88	8.25
200×200	8	× 8	216.3	216.3	4.0	4.0	6.5	6.5	8.2	8.2	177.8	177.8	8.91	14.3	17.9
200×150		6	216.3	165.2	4.0	3.4	6.5	5.0	8.2	7.1	177.8	168.3	8.26	13.1	16.6
200×125		5	216.3	139.8	4.0	3.4	6.5	5.0	8.2	6.6	177.8	161.9	8.06	12.9	16.1
200×100		4	216.3	114.3	4.0	3.0	6.5	4.0	8.2	6.0	177.8	155.6	7.84	12.5	15.7
250×250	10	× 10	267.4	267.4	4.0	4.0	6.5	6.5	9.3	9.3	215.9	215.9	13.4	21.5	30.4
250×200		8	267.4	216.3	4.0	4.0	6.5	6.5	9.3	8.2	215.9	203.2	12.7	20.4	28.5
250×150		6	267.4	165.2	4.0	3.4	6.5	5.0	9.3	7.1	215.9	193.7	12.0	19.2.	27.2
250×125		5	267.4	139.8	4.0	3.4	6.5	5.0	9.3	6.6	215.9	190.5	11.9	19.0	26.8
250×100		4	267.4	114.3	4.0	3.0	6.5	4.0	9.3	6.0	215.9	184.2	11.6	18.6	26.4
300×300	12	× 12	318.5	318.5	4.5	4.5	6.5	6.5	10.3	10.3	254.0	254.0	21.0	30.1	47.2
300×250		10	318.5	267.4	4.5	4.0	6.5	6.5	10.3	9.3	254.0	241.3	19.8	28.8	44.6
300×200		8	318.5	216.3	4.5	4.0	6.5	6.5	10.3	8.2	254.0	228.6	19.2	27.7	42.7
300×150		6	318.5	165.2	4.5	3.4	6.5	5.0	10.3	7.1	254.0	219.1	17.4	25.8	39.3
300×125		5	318.5	139.8	4.5	3.4	6.5	5.0	10.3	6.6	254.0	215.9	18.3	26.3	41.0
350×350	14	× 14	355.6	355.6	4.8	4.8	7.9	7.9	11.1	11.1	279.4	279.4	27.3	44.8	62.4
350×300		12	355.6	318.5	4.8	4.5	7.9	6.5	11.1	10.3	279.4	269.9	25.8	43.2	59.8
350×250		10	355.6	267.4	4.8	4.0	7.9	6.5	11.1	9.3	279.4	257.2	24.7	41.0	57.3
350×200		8	355.6	216.3	4.8	4.0	7.9	6.5	11.1	8.2	279.4	247.7	23.7	39.7	42.0
350×150		6	355.6	165.2	4.8	3.4	7.9	5.0	11.1	7.1	279.4	238.1	22.6	38.0	54.5
400×400	16	× 16	406.4	406.4	4.8	4.8	7.9	7.9	12.7	12.7	304.8	304.8	33.7	55.2	88.0
400×350		14	406.4	355.6	4.8	4.8	7.9	7.9	12.7	11.1	304.8	304.8	31.5	53.5	86.0
400×300		12	406.4	318.5	4.8	4.5	7.9	6.5	12.7	10.3	304.8	295.3	30.2	51.2	82.4
400×250		10	406.4	267.4	4.8	4.0	7.9	6.5	12.7	9.3	304.8	282.6	28.9	49.0	79.0
400×200		8	406.4	216.3	4.8	4.0	7.9	6.5	12.7	8.2	304.8	273.1	27.7	46.9	75.9
450×450	18	× 18	457.2	457.2	4.8	4.8	7.9	7.9	14.3	14.3	342.9	342.9	42.7	70.0	125.0
450×400		16	457.2	406.4	4.8	4.8	7.9	7.9	14.3	12.7	342.9	330.2	40.1	67.5	120.1
450×350		14	457.2	355.6	4.8	4.8	7.9	7.9	14.3	11.1	342.9	330.2	38.4	64.7	115.0
450×300		12	457.2	318.5	4.8	4.5	7.9	6.5	14.3	10.3	342.9	320.7	36.8	62.0	114.0
450×250		10	457.2	267.4	4.8	4.0	7.9	6.5	14.3	9.3	342.9	308.0	35.3	59.4	112.0
500×500	20	× 20	508.0	508.0	5.5	5.5	7.9	7.9	15.1	15.1	381.0	381.0	61.0	86.6	163.0
500×450		18	508.0	457.2	5.5	4.8	7.9	7.9	15.1	14.3	381.0	368.3	57.5	84.0	159.2
500×400		16	508.0	406.4	5.5	4.8	7.9	7.9	15.1	12.7	381.0	355.6	55.0	80.5	152.6
500×350		14	508.0	355.6	5.5	4.8	7.9	7.9	15.1	11.1	381.0	355.6	52.7	77.1	149.0
500×300		12	508.0	318.5	5.5	4.5	7.9	6.5	15.1	10.3	381.0	346.1	50.6	73.9	147.0
550×550	22	× 22	558.8	558.8	5.5	5.5	9.5	9.5	15.9	15.9	419.1	419.1	74.1	126.2	198.0
550×500	22	× 20	558.8	508.0	5.5	5.5	9.5	7.9	15.9	15.1	419.1	406.4	71.8	124.0	195.0
550×450	22	× 18	558.8	457.2	5.5	4.8	9.5	7.9	15.9	14.3	419.1	393.7	68.8	118.8	187.6
550×400	22	× 16	558.8	406.4	5.5	4.8	9.5	7.9	15.9	12.7	419.1	381.0	65.9	113.8	179.8
600×600	24	× 24	609.6	609.6	6.4	6.4	9.5	9.5	17.5	17.5	431.8	431.8	93.9	139.4	252.0
600×550	24	× 22	609.6	558.8	6.4	5.5	9.5	9.5	17.5	15.9	431.8	431.8	90.7	136.4	248.8
600×500	24	× 20	609.6	508.0	6.4	5.5	9.5	7.9	17.5	15.1	431.8	431.8	86.9	130.6	241.3
600×450	24	× 18	609.6	457.2	6.4	4.8	9.5	7.9	17.5	14.3	431.8	419.1	83.2	125.2	241.8

STAINLESS STEEL
BUTT-WELDING PIPE FITTINGS (Reducer)

KS
JIS



Concentric



Eccentric

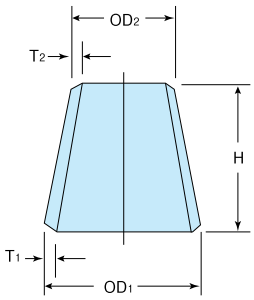
Reducer / Sch.10s / Sch.20s / Sch.40s

KS B 1543, JIS B 2313

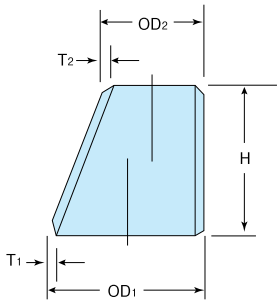
Unit : mm

Nominal PipeSize		Outside Diameter		Wall Thickness (T)						End to End	Weight (kg)		
				Sch.10S		Sch.20S		Sch.40S					
A	B	OD_1	OD_2	T_1	T_2	T_1	T_2	T_1	T_2	H	Sch.10S	Sch.20S	Sch.40S
20×15	3/4 × 1/2	27.2	21.7	2.1	2.1	2.5	2.5	2.9	2.8	38.1	0.04	0.05	0.06
25×20	1 × 3/4	34.0	27.2	2.8	2.1	3.0	2.5	3.4	2.9	50.8	0.10	0.10	0.12
25×15	1/2	34.0	21.7	2.8	2.1	3.0	2.5	3.4	2.8	50.8	0.09	0.09	0.11
32×25	1 1/4 × 1	42.7	34.0	2.8	2.8	3.0	3.0	3.6	3.4	50.8	0.13	0.13	0.16
32×20	3/4	42.7	27.2	2.8	2.1	3.0	2.5	3.6	2.9	50.8	0.11	0.12	0.14
32×15	1/2	42.7	21.7	2.8	2.1	3.0	2.5	3.6	2.8	50.8	-	-	-
40×32	1 1/2 × 1 1/4	48.6	42.7	2.8	2.8	3.0	3.0	3.7	3.6	63.5	0.19	0.20	0.24
40×25	1	48.6	34.0	2.8	2.8	3.0	3.0	3.7	3.4	63.5	0.17	0.18	0.22
40×20	3/4	48.6	27.2	2.8	2.1	3.0	2.5	3.7	2.9	63.5	0.16	0.17	0.20
40×15	1/2	48.6	21.7	2.8	2.1	3.0	2.5	3.7	2.8	63.5	-	-	-
50×40	2 × 1 1/2	60.5	48.6	2.8	2.8	3.5	3.0	3.9	3.7	76.2	0.27	0.34	0.37
50×32	1 1/4	60.5	42.7	2.8	2.8	3.5	3.0	3.9	3.6	76.2	0.26	0.32	0.35
50×25	1	60.5	34.0	2.8	2.8	3.5	3.0	3.9	3.4	76.2	0.24	0.29	0.32
50×20	3/4	60.5	27.2	2.8	2.1	3.5	2.5	3.9	2.9	76.2	0.21	0.25	0.29
65×50	2 1/2 × 2	76.3	60.5	3.0	2.8	3.5	3.5	5.2	3.9	88.9	0.43	0.50	0.72
65×40	1 1/2	76.3	48.6	3.0	2.8	3.5	3.0	5.2	3.7	88.9	0.40	0.46	0.66
65×32	1 1/4	76.3	42.7	3.0	2.8	3.5	3.0	5.2	3.6	88.9	0.38	0.42	0.61
65×25	1	76.3	34.0	3.0	2.8	3.5	3.0	5.2	3.4	88.9	-	-	-
80×65	3 × 2 1/2	89.1	76.3	3.0	3.0	4.0	3.5	5.5	5.2	88.9	0.53	0.69	0.93
80×50	2	89.1	60.5	3.0	2.8	4.0	3.5	5.5	3.9	88.9	0.48	0.63	0.85
80×40	1 1/2	89.1	48.6	3.0	2.8	4.0	3.0	5.5	3.7	88.9	0.44	0.58	0.78
80×32	1 1/4	89.1	42.7	3.0	2.8	4.0	3.0	5.5	3.6	88.9	-	-	-
100× 80	4 × 3	114.3	89.1	3.0	3.0	4.0	4.0	6.0	5.5	101.6	0.75	0.99	1.45
100× 65	2 1/2	114.3	76.3	3.0	3.0	4.0	3.5	6.0	5.2	101.6	0.71	0.93	1.37
100× 50	2	114.3	60.5	3.0	2.8	4.0	3.5	6.0	3.9	101.6	0.66	0.86	1.27
100× 40	1 1/2	114.3	48.6	3.0	2.8	4.0	3.0	6.0	3.7	101.6	0.60	0.79	1.12
125×100	5 × 4	139.8	114.3	3.4	3.0	5.0	4.0	6.6	6.0	127.0	1.32	1.92	2.50
125× 80	3	139.8	89.1	3.4	3.0	5.0	4.0	6.6	5.5	127.0	1.20	1.74	2.27
125× 65	2 1/2	139.8	76.3	3.4	3.0	5.0	3.5	6.6	5.2	127.0	1.15	1.66	2.16
125× 50	2	139.8	60.5	3.4	2.8	5.0	3.5	6.6	3.9	127.0	-	-	-
150×125	6 × 5	165.2	139.8	3.4	3.4	5.0	5.0	7.1	6.6	139.7	1.75	2.55	3.57
150×100	4	165.2	114.3	3.4	3.0	5.0	4.0	7.1	6.0	139.7	1.62	2.36	3.30
150× 80	3	165.2	89.1	3.4	3.0	5.0	4.0	7.1	5.5	139.7	1.50	2.18	3.04
150× 65	2 1/2	165.2	76.3	3.4	3.0	5.0	3.5	7.1	5.2	139.7	-	-	-

STAINLESS STEEL
BUTT-WELDING PIPE FITTINGS (Reducer)



Concentric



Eccentric

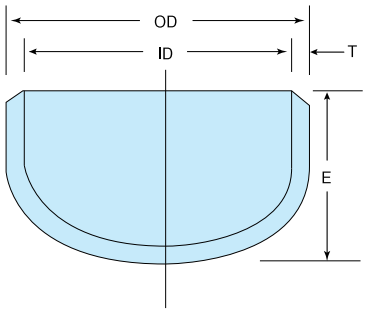
Reducer / Sch.10s / Sch.20s / Sch.40s

KS B 1543, JIS B 2313

Unit : mm

Nominal PipeSize		Outside Diameter		Wall Thickness (T)						End to End	Weight (kg)		
				Sch.10S		Sch.20S		Sch.40S					
A	B	OD_1	OD_2	T_1	T_2	T_1	T_2	T_1	T_2	H	Sch.10S	Sch.20S	Sch.40S
200×150	8 × 6	216.3	165.2	4.0	3.4	6.5	5.0	8.2	7.1	152.4	2.85	4.57	5.71
200×125	5	216.3	139.8	4.0	3.4	6.5	5.0	8.2	6.6	152.4	2.70	4.33	5.40
200×100	4	216.3	114.3	4.0	3.0	6.5	4.0	8.2	6.0	152.4	2.56	4.10	5.10
250×200	10 × 8	267.4	216.3	4.0	4.0	6.5	6.5	9.3	8.2	177.8	4.21	6.22	8.78
250×150	6	267.4	165.2	4.0	3.4	6.5	5.0	9.3	7.1	177.8	3.87	6.22	8.78
250×125	5	267.4	139.8	4.0	3.4	6.5	5.0	9.3	6.6	177.8	3.30	5.70	8.21
250×100	4	267.4	114.3	4.0	3.0	6.5	4.0	9.3	6.0	177.8	-	-	-
300×250	12 × 10	318.5	267.4	4.5	4.0	6.5	6.5	10.3	9.3	203.2	6.55	9.40	14.7
300×200	8	318.5	216.3	4.5	4.0	6.5	6.5	10.3	8.2	203.2	6.11	8.77	13.7
300×150	6	318.5	165.2	4.5	3.4	6.5	5.0	10.3	7.1	203.2	5.73	7.81	12.4
300×125	5	318.5	139.8	4.5	3.4	6.5	5.0	10.3	6.6	203.2	-	-	-
350×300	14 × 12	355.6	318.5	4.8	4.5	7.9	6.5	11.1	10.3	330.2	13.2	21.5	29.9
350×250	10	355.6	267.4	4.8	4.0	7.9	6.5	11.1	9.3	330.2	12.1	19.8	27.5
350×200	8	355.6	216.3	4.8	4.0	7.9	6.5	11.1	8.2	330.2	11.2	18.2	25.3
350×150	6	355.6	165.2	4.8	3.4	7.9	5.0	11.1	7.1	330.2	10.3	16.7	23.2
400×350	16 × 14	406.4	355.6	4.8	4.8	7.9	7.9	12.7	11.1	355.6	16.1	26.2	41.6
400×300	12	406.4	318.5	4.8	4.5	7.9	6.5	12.7	10.3	355.6	14.8	24.1	38.3
400×250	10	406.4	267.4	4.8	4.0	7.9	6.5	12.7	9.3	355.6	13.6	22.2	35.2
400×200	8	406.4	216.3	4.8	4.0	7.9	6.5	12.7	8.2	355.6	12.5	20.4	32.4
450×400	18 × 16	457.2	406.4	4.8	4.8	7.9	7.9	14.3	12.7	381.0	19.5	31.9	56.9
450×350	14	457.2	355.6	4.8	4.8	7.9	7.9	14.3	11.1	381.0	17.9	29.3	52.3
450×300	12	457.2	318.5	4.8	4.5	7.9	6.5	14.3	10.3	381.0	16.5	27.0	51.0
450×250	10	457.2	267.4	4.8	4.0	7.9	6.5	14.3	9.3	381.0	15.2	24.8	48.3
500×450	20 × 18	508.0	457.2	5.5	4.8	7.9	7.9	15.1	14.3	508.0	33.3	47.6	88.4
500×400	16	508.0	406.4	5.5	4.8	7.9	7.9	15.1	12.7	508.0	30.6	43.8	83.9
500×350	14	508.0	355.3	5.5	4.8	7.9	7.9	15.1	11.1	508.0	28.2	40.3	79.6
500×300	12	508.0	318.5	5.5	4.5	7.9	6.5	15.1	10.3	508.0	25.9	37.0	66.3
550×500	22 × 20	558.8	508.0	5.5	5.5	9.5	7.9	15.9	15.1	508.0	36.9	63.2	99.4
550×450	22 × 18	558.8	457.2	5.5	4.8	9.5	7.9	15.9	14.3	508.0	33.9	58.2	91.4
550×400	22 × 16	558.8	406.4	5.5	4.8	9.5	7.9	15.9	12.7	508.0	31.2	53.5	84.1
600×550	24 × 22	609.6	558.8	6.4	5.5	9.5	9.5	17.5	15.9	508.0	47.0	69.3	125.3
600×500	24 × 20	609.6	508.0	6.4	5.5	9.5	7.9	17.5	15.1	508.0	43.2	63.7	119.0
600×450	24 × 18	609.6	457.2	6.4	4.8	9.5	7.9	17.5	14.3	508.0	39.8	58.6	114.0
600×400	24 × 16	609.6	406.4	6.4	4.8	9.5	7.9	17.5	12.7	508.0	36.5	56.7	98.4

STAINLESS STEEL
BUTT-WELDING PIPE FITTINGS (Cap)

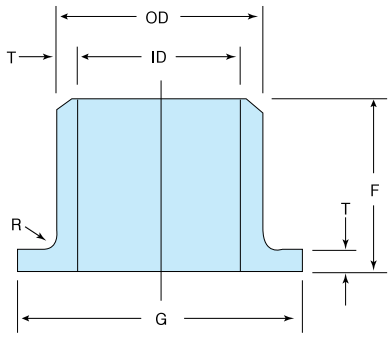


Cap / Sch.10s / Sch.20s / Sch.40s

Unit : mm

Nominal Pipe Size		Outside Diameter (OD)	Wall Thickness (T)			Back to Face	Weight (Kg)		
A	B		10S	20S	40S	E	10S	20S	40S
15	1/2	21.7	2.1	2.5	2.8	25.4	0.03	0.03	0.04
20	3/4	27.2	2.1	2.5	2.9	25.4	0.04	0.04	0.05
25	1	34.0	2.8	3.0	3.4	38.1	0.09	0.10	0.11
32	1 1/4	42.7	2.8	3.0	3.6	38.1	0.11	0.12	0.14
40	1 1/2	48.6	2.8	3.0	3.7	38.1	0.13	0.14	0.17
50	2	60.5	2.8	3.5	3.9	38.1	0.17	0.21	0.24
65	2 1/2	76.3	3.0	3.5	5.2	38.1	0.23	0.28	0.42
80	3	89.1	3.0	4.0	5.5	50.8	0.37	0.48	0.67
100	4	114.3	3.0	4.0	6.0	63.5	0.59	0.78	1.17
125	5	139.8	3.4	5.0	6.6	76.2	0.99	1.44	1.90
150	6	165.2	3.4	5.0	7.1	88.9	1.39	1.99	2.83
200	8	216.3	4.0	6.5	8.2	101.6	2.38	4.05	5.11
250	10	267.4	4.0	6.5	9.3	127.0	4.13	6.23	8.92
300	12	318.5	4.5	6.5	10.3	152.4	6.39	8.89	13.10
350	14	355.6	4.8	7.9	11.1	165.1	7.99	13.20	18.60
400	16	406.4	4.8	7.9	12.7	177.8	10.10	16.70	26.70
450	18	457.2	4.8	7.9	14.3	203.2	12.90	21.30	41.50
500	20	508.0	5.5	7.9	15.1	228.6	18.50	31.80	51.30

STAINLESS STEEL BUTT-WELDING PIPE FITTINGS (Lap Joint Stub End)



Sch.10s / Sch.20s / Sch.40s

Unit : mm

Nominal Pipe Size		Outside Diameter (OD)	Wall Thickness (T)			G		F	R	Weight (Kg)		
A	B		10S	20S	40S	5K	10K			10S	20S	40S
15	1/2	21.7	2.1	2.5	2.8	44	51	30	3	0.06	0.07	0.08
20	3/4	27.2	2.1	2.5	2.9	49	56	30	3	0.07	0.09	0.10
25	1	34.0	2.8	3.0	3.4	59	67	50	3	0.17	0.18	0.21
32	1 1/4	42.7	2.8	3.0	3.6	70	76	50	4	0.22	0.23	0.28
40	1 1/2	48.6	2.8	3.0	3.7	75	81	50	4	0.24	0.26	0.32
50	2	60.5	2.8	3.5	3.9	85	96	50	4	0.31	0.38	0.42
65	2 1/2	76.3	3.0	3.5	5.2	110	116	50	5	0.43	0.50	0.73
80	3	89.1	3.0	4.0	5.5	121	126	50	5	0.48	0.64	0.87
100	4	114.3	3.0	4.0	6.0	141	151	50	5	0.61	0.82	1.20
125	5	139.8	3.4	5.0	6.6	176	182	50	6	0.88	1.28	1.68
150	6	165.2	3.4	5.0	7.1	206	212	50	6	1.08	1.57	2.21
200	8	216.3	4.0	6.5	8.2	252	262	65	6	1.94	3.12	3.93
250	10	267.4	4.0	6.5	9.3	317	324	65	6	2.53	4.08	5.80
300	12	318.5	4.5	6.5	10.3	360	368	65	9	3.25	4.67	7.34
350	14	355.6	4.8	7.9	11.1	403	413	150	9	7.65	12.60	17.70
400	16	406.4	4.8	7.9	12.7	463	475	150	9	9.05	14.90	24.00
450	18	457.2	4.8	7.9	14.3	523	530	150	9	10.30	17.00	30.70
500	20	508.0	5.5	7.9	15.1	573	585	150	9	13.30	22.90	36.40
550	22	558.8	5.5	9.5	15.9	630	640	150	9	14.80	25.50	40.60
600	24	609.6	6.4	9.5	17.5	680	690	150	9	18.70	27.70	50.80

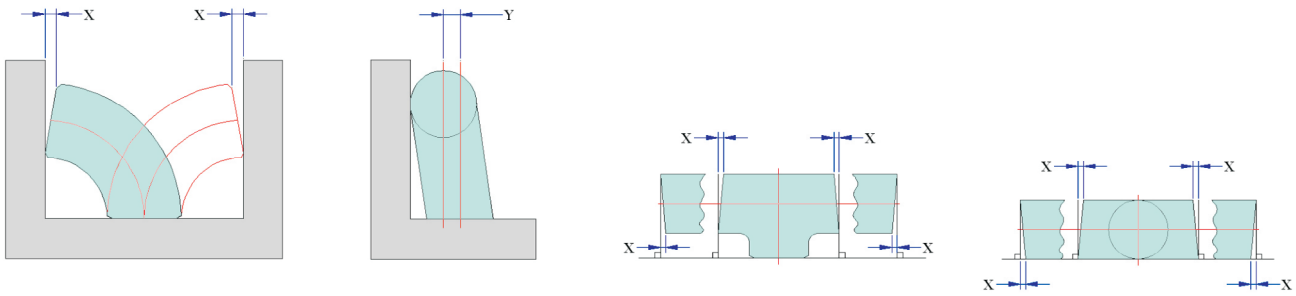
STAINLESS STEEL BUTT-WELDING PIPE FITTINGS (Dimension)

DIMENSION TOLERANCE (KS B 1543)

Unit : mm

Item	Type of Pipe Fitting	Nominal Pipe Size						
		A	15~65	80~100	125~200	250~450	500~600	650~750	800~1000
		B	1/2~2 1/2	3~4	5~8	10~18	20~24	26~30	32~48
		Tolerance							
Outside Dia. at end Face (OD)	All Pipe Fitting	±2.0		±2.5		±3.5	+5.0 −4.5	+6.4 −4.8	
Inside Dia. at end Face (ID)		±2.0		±2.5		±3.5	±4.5		
Thickness (T)		+Not Specified −15%							
Center to end dimension (F, H)	90° Elbow 45° Elbow	±2.0			±3.2			±4.8	
End to end dimension (H)	Reducer	±2.0			±3.2				
Center to end dimension (C, M)	Tee	±2.0			±3.2			±4.8	
Back to face dimension (E)	Cap	±3.2			±6.4			–	
Outside of end Peripheral length	All Pipe Fitting	–						±0.5	

RIGHT ANGLE FOR SHAFT-CENTER OF PIPE FITTINGS



Unit : mm

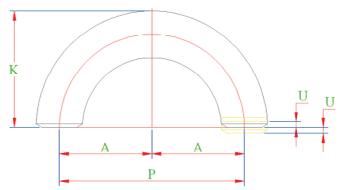
Item	Type of Pipe Fitting	Nominal Pipe Size							
		A	15~100	125~200	250~300	350~400	450~600	650~750	800~1050	1100~1200
		B	1/2~4	5~8	10~12	14~16	18~24	26~30	32~42	44~48
		Tolerance								
Off Angle(X)	T, Elbow Reducer	0.8		1.6	2.4		3.2	4.8		
Off Plane(Y)	T, Elbow	1.6		3.2	4.8	6.4	9.5		12.7	19.1

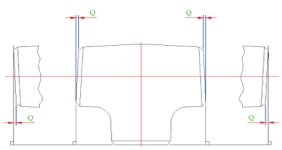
DIMENSIONAL TOLERANCES (ANSI B 16.9 & 16.28)

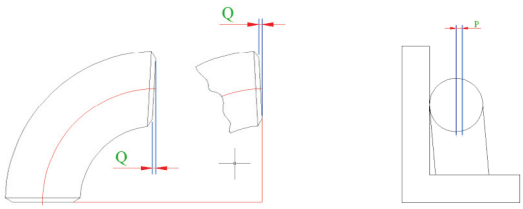
Wrought Steel Butt Welding Fittings

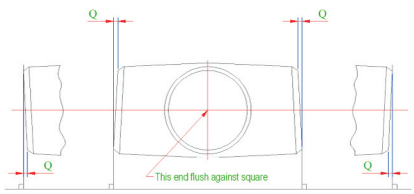
Unit : inch

All Fittings				90° and 45° Elbows	Tees	Reducers	Caps	180° Returns		
Nominal Pipe Size	Outside Diameter at Bevel (OD)	Inside Diameter at End (ID)	Wall Thickness (T)	Center-to-End Dimension (A, B)	Center-to-End Dimension (C, M)	End to End (H)	Back to Face (E)	Center-to-Center Dimension (P)	Back-to-Face Dimension (K)	Alignments of Ends (U)
1/2–2 1/2	+0.06 −0.03	±0.03	Not less than 87 1/2 % of Nominal Thickness	±0.06	±0.06	±0.06	±0.12	±0.25	±0.25	±0.03
3–4	±0.06	±0.06								
5–8	+0.09 −0.06						±0.25			
10–18	+0.16 −0.12	±0.12		±0.09	±0.09	±0.09		±0.38		±0.06
20–24	+0.25 −0.19	±0.19								
26–30				±0.12	±0.12	±0.19	±0.38	–	–	–
32–48				±0.19	±0.19					









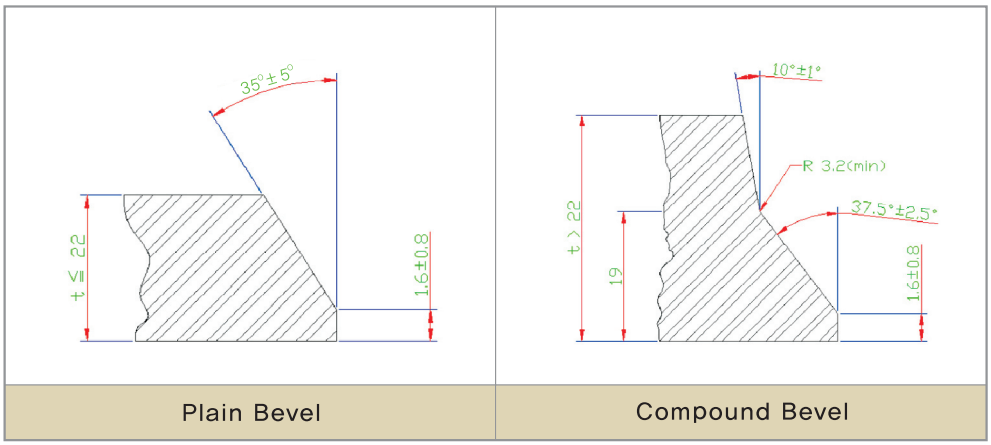
Unit : inch

Nominal Pipe Size	Angularity Tolerance	
	Off Angle (Q)	Off Plane (P)
1/2–4	0.03	0.06
5–8	0.06	0.12
10–12	0.09	0.19
14–16		0.25
18–24	0.12	0.38
26–30	0.19	
32–42		0.5
44–48		0.75

• Dimensions are in inches.

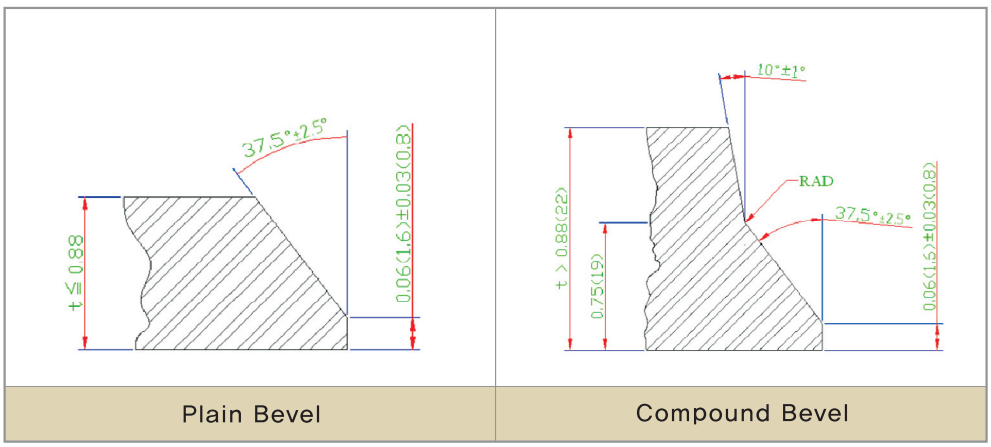
WELDING END PREPERATIONS (KS/JIS, ANSI)

KS / JIS Unit : mm



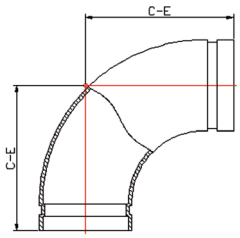
Plain Bevel	Compound Bevel

ANSI Unit : inch(mm)

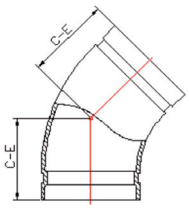


Plain Bevel	Compound Bevel

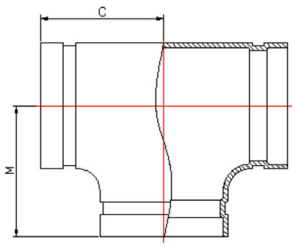
STAINLESS GROOVED FITTINGS



90° ELBOW



45° ELBOW

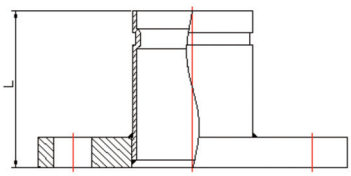


TEE (STRAIGHT)

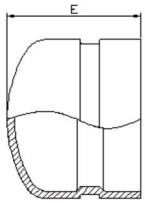
Unit : mm

호칭(A)	O.D	90° ELBOW			45° ELBOW			STRAIGHT TEE			
		C to E	S10(kg)	S20(kg)	C to E	S10(kg)	S20(kg)	C	M	S10(kg)	S20(kg)
50	60.5	92.3	0.58	0.71	57.8	0.21	0.27	78.5	78.5	0.79	0.98
65	76.3	110.9	0.94	1.09	65.6	0.37	0.43	85.0	85.0	1.13	1.31
80	89.1	128.5	1.28	1.69	70.0	0.51	0.67	86.0	86.0	1.30	1.71
100	114.3	152.4	2.00	2.60	63.1	0.96	1.30	105.0	105.0	2.03	2.68
125	139.8	190.5	3.42	4.97	78.9	1.71	2.49	124.0	124.0	3.35	4.88
150	165.2	228.6	4.87	7.09	94.7	2.43	3.54	143.0	143.0	4.65	6.77
200	216.3	304.8	10.0	16.1	126.3	5.01	8.05	178.0	178.0	8.91	14.3
250	267.4	381.0	16.6	25.0	157.8	7.77	12.5	216.0	216.0	13.4	21.5
300	318.5	457.2	25.9	35.9	189.4	12.5	17.9	254.0	254.0	21.0	30.1
350	355.6	355.6	23.1	37.8	220.9	17.3	28.5	279.5	279.5	27.3	44.8
400	406.4	406.4	30.2	49.5	252.5	22.7	37.3	305.0	305.0	31.5	53.5
450	457.2	457.2	38.2	62.8	284.1	28.7	47.3	343.0	343.0	42.7	70.0
500	508.0	508.0	54.7	77.7	315.6	41.1	58.5	381.0	381.0	61.0	86.6
550	558.8	555.8	66.3	114.0	347.2	49.8	85.5	419.0	419.0	74.1	126.2
600	609.6	609.6	90.4	135.0	378.7	68.0	101.0	432.0	432.0	93.9	139.4

※ 90° Elbow 350A 이상은 Short Elbow 치수 적용



FLANGE ADAPTA

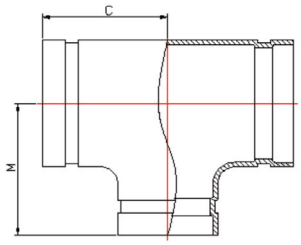


CAP

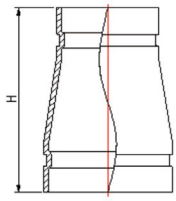
Unit : mm

호칭(A)	O.D	FLANGE ADAPTA			CAP		
		L	S10(kg)	S20(kg)	E	S10(kg)	S20(kg)
50	60.5	80.0	2.2	2.3	51.0	0.20	0.24
65	76.3	85.0	3.1	3.1	55.0	0.29	0.33
80	89.1	85.0	3.2	4.5	66.0	0.41	0.54
100	114.3	90.0	3.9	5.9	63.5	0.59	0.78
125	139.8	95.0	5.9	9.4	76.2	0.99	1.44
150	165.2	100.0	7.7	12.1	88.9	1.39	1.99
200	216.3	115.0	10.0	16.5	101.6	2.38	4.05
250	267.4	120.0	14.9	27.0	127.0	4.13	6.23
300	318.5	120.0	16.9	31.9	152.4	6.39	8.89
350	355.6	190.0	24.4	49.2	165.1	7.99	13.2
400	406.4	220.0	33.6	69.0	177.8	10.1	16.7
450	457.2	225.0	41.7	86.0	203.2	12.9	21.3
500	508.0	260.0	51.4	103.0	228.6	18.5	31.8
550	558.8	280.0	64.3	128.6	254.0	22.6	38.8
600	609.6	285.0	73.1	141.6	266.7	30.1	45.1

STAINLESS GROOVED FITTINGS



TEE (REDUCING)

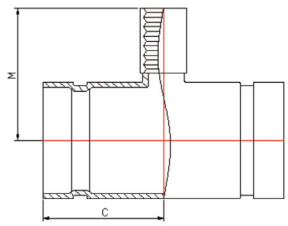


REDUCER

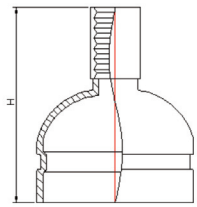
Unit : mm

REDUCING TEE					REDUCER			
호칭(A)	C	M	S10(kg)	S20(kg)	호칭(A)	H	S10(kg)	S20(kg)
65 X 50	85.0	85.0	1.07	1.26	65 X 50	110.0	0.55	0.62
80 X 65	86.0	89.0	1.28	1.64	80 X 65	110.0	0.67	0.86
80 X 50	86.0	89.0	1.25	1.61	80 X 50	110.0	0.60	0.78
100 X 80	105.0	105.0	1.95	2.58	100 X 80	125.0	0.94	1.22
100 X 65	105.0	105.0	1.92	2.49	100 X 65	125.0	0.88	1.14
100 X 50	105.0	105.0	1.87	2.46	100 X 50	125.0	0.80	1.04
125 X 100	124.0	124.0	3.12	4.47	125 X 100	150.0	1.57	2.28
125 X 80	124.0	124.0	3.07	4.41	125 X 80	150.0	1.41	2.05
125 X 65	124.0	124.0	3.04	4.33	125 X 65	150.0	1.33	1.93
150 X 125	143.0	136.5	4.30	6.28	150 X 125	170.0	2.15	3.12
150 X 100	143.0	136.5	4.14	5.96	150 X 100	170.0	1.96	2.85
150 X 80	143.0	136.5	4.10	5.93	150 X 80	170.0	1.78	2.59
200 X 150	178.0	170.0	8.01	12.72	200 X 150	190.0	3.33	5.67
200 X 125	178.0	170.0	7.87	12.54	200 X 125	190.0	3.10	5.28
200 X 100	178.0	165.0	7.67	12.17	200 X 100	190.0	2.88	4.89
250 X 200	216.0	216.0	12.25	19.77	250 X 200	220.0	5.46	8.38
250 X 150	216.0	216.0	11.84	18.89	250 X 150	220.0	4.87	7.47
250 X 125	216.0	216.0	11.79	18.84	250 X 125	220.0	4.58	7.02
300 X 250	254.0	254.0	18.9	27.7	300 X 250	260.0	8.54	12.1
300 X 200	254.0	235.0	18.4	26.8	300 X 200	260.0	7.78	11.0
300 X 150	254.0	235.0	18.1	26.1	300 X 150	260.0	7.02	9.91
350 X 300	279.5	270.0	25.8	43.2	350 X 300	330.0	13.1	21.7
350 X 250	279.5	257.5	24.7	41.0	350 X 250	330.0	12.1	20.0
400 X 350	305.0	305.0	31.5	53.5	400 X 350	356.0	15.9	26.4
400 X 300	305.0	295.5	30.2	51.2	400 X 300	356.0	15.2	25.1
450 X 400	343.0	330.0	40.1	67.5	450 X 400	381.0	18.1	32.2
450 X 350	343.0	330.0	38.4	64.7	450 X 350	381.0	17.0	30.3
500 X 450	381.0	368.5	57.5	84.0	500 X 450	508.0	33.5	56.9
500 X 400	381.0	355.5	55.0	80.5	500 X 400	508.0	31.7	53.8
550 X 500	419.0	406.5	71.8	124.0	550 X 500	508.0	37.0	63.0
550 X 450	419.0	394.0	68.8	118.8	550 X 450	508.0	35.2	59.9
600 X 550	432.0	432.0	90.7	136.4	600 X 550	508.0	46.4	69.1
600 X 500	432.0	432.0	86.9	130.6	600 X 500	508.0	44.4	66.0

STAINLESS GROOVED FITTINGS



SOKET TEE



SOKET REDUCER

Unit : mm

SOKET TEE				SOKET REDUCER		
호칭(A)	O.D	C	M	호칭(A)	O.D	H
50 X 15	60.5	63.5	68.0	50 X 15	60.5	82.0
50 X 20	60.5	63.5	81.0	50 X 20	60.5	85.0
50 X 25	60.5	63.5	94.0	50 X 25	60.5	92.0
50 X 32	60.5	63.5	105.0	50 X 32	60.5	97.0
50 X 40	60.5	63.5	108.0	50 X 40	60.5	124.0
65 X 15	76.3	76.2	76.0	65 X 15	76.3	86.0
65 X 20	76.3	76.2	79.0	65 X 20	76.3	89.0
65 X 25	76.3	76.2	100.0	65 X 25	76.3	96.0
65 X 32	76.3	76.2	112.0	65 X 32	76.3	101.0
65 X 40	76.3	76.2	115.0	65 X 40	76.3	137.0
65 X 50	76.3	76.2	126.0	65 X 50	76.3	145.0
80 X 15	89.1	85.7	82.0	80 X 15	89.1	97.0
80 X 20	89.1	85.7	85.0	80 X 20	89.1	100.0
80 X 25	89.1	85.7	93.0	80 X 25	89.1	107.0
80 X 32	89.1	85.7	118.0	80 X 32	89.1	112.0
80 X 40	89.1	85.7	121.0	80 X 40	89.1	112.0
80 X 50	89.1	85.7	132.0	80 X 50	89.1	145.0
100 X 15	114.3	104.8	95.0	100 X 15	114.3	95.0
100 X 20	114.3	104.8	98.0	100 X 20	114.3	98.0
100 X 25	114.3	104.8	106.0	100 X 25	114.3	105.0
100 X 32	114.3	104.8	112.0	100 X 32	114.3	110.0
100 X 40	114.3	104.8	134.0	100 X 40	114.3	110.0
100 X 50	114.3	104.8	145.0	100 X 50	114.3	158.0
125 X 15	139.8	123.8	107.0	125 X 15	139.8	107.0
125 X 20	139.8	123.8	110.0	125 X 20	139.8	110.0
125 X 25	139.8	123.8	118.0	125 X 25	139.8	117.0
125 X 32	139.8	123.8	124.0	125 X 32	139.8	122.0
125 X 40	139.8	123.8	126.0	125 X 40	139.8	122.0
125 X 50	139.8	123.8	161.0	125 X 50	139.8	130.0
150 X 15	165.2	142.9	120.0	150 X 15	165.2	120.0
150 X 20	165.2	142.9	123.0	150 X 20	165.2	123.0
150 X 25	165.2	142.9	131.0	150 X 25	165.2	130.0
150 X 32	165.2	142.9	137.0	150 X 32	165.2	135.0
150 X 40	165.2	142.9	139.0	150 X 40	165.2	135.0
150 X 50	165.2	142.9	149.0	150 X 50	165.2	143.0
200 X 15	216.3	177.8	146.0	200 X 15	216.3	133.0
200 X 20	216.3	177.8	149.0	200 X 20	216.3	136.0
200 X 25	216.3	177.8	157.0	200 X 25	216.3	143.0
200 X 32	216.3	177.8	163.0	200 X 32	216.3	148.0
200 X 40	216.3	177.8	164.0	200 X 40	216.3	148.0
200 X 50	216.3	177.8	174.0	200 X 50	216.3	156.0

PIPE GROOVING MACHINES
(파이프 홈 가공기)

(수동)



(자동)



특허등록제품
등록번호 : 10-1838007

DSC-002, DSC-004
DSC-005, DSC-006

이동형 파이프 홈 가공기로서 이동 및 설치가 용이하여 현장에서 쉽게 사용할 수 있는 기계입니다. 또한 기동형 감속 모터를 탑재하여 소음이 적고 내구성이 뛰어나며 간단한 조작으로 작동이 가능하여 초보자도 쉽게 사용을 할 수 있습니다.

Specification(DSC-002, 004, 005, 006)

구분	수동		자동	
MODEL NO.	DSC-002	DSC-004	DSC-005	DSC-006
Capacity	25A~300A			
Tool motor	2HP	1HP	1HP	2HP
Electricity	220V 60Hz 단상			
Weight	139Kg	110Kg	115Kg	145Kg
Remark	기본사양 : 50~300A, 기타 : 옵션	기본사양 : 50~150A, 기타 : 옵션	기본사양 : 50~150A, 기타 : 옵션	기본사양 : 50~300A, 기타 : 옵션

DSC-003



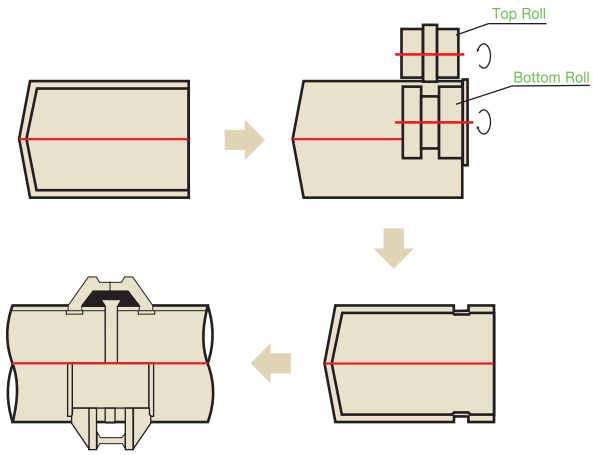


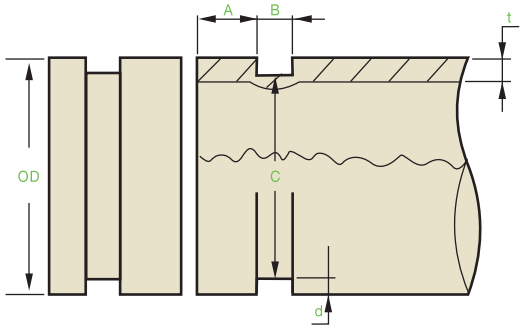
- DSC-003 모델은 유압 시스템, 전기제어 장치, 상단 하단 롤로 구성 되어 있습니다.
- DSC-003 모델은 전기와 유압 장치의 제어로 인한 자동 가공 시스템이 가능하고 대형 사이즈 PIPE의 홈 가공 전형기입니다.

Specification

- Capacity : PIPE 200A ~ 600A (8' ~ 24')
- Electricity : 380V 60㎐
- System : HYD 150㎏/㎠
- Tool rpm : 23 rpm
- Main press : 10 Ton
- Main stroke : 100㎜
- Oil tank capacity : 60 L
- Tool motor : 5Hp 4p 1/60 rpm 28.5
- Hydraulic motor : 5Hp 6p
- Speed : ⅛min./dia. Inch

GROOVING CHART





홈가공 치수 (Roll Grooving Dimension)

Unit : mm

파이프 호칭	파이프 외경	A	B	A,B의 허용공차	홈가공부 직경(C)		홈 깊이 (d)	최소두께 (t)	최대허용 끝단외경
					기준값	허용차			
25A (1″)	34.0	15.88	7.14	± 0.76	31	-0.38	1.60	1.65	36.3
32A(1 1/4”)	42.7	15.88	7.14		39	-0.38	1.60	1.65	45.0
40A(1 1/2”)	48.6	15.88	7.14		45.5	-0.38	1.60	1.65	51.1
50A (2”)	60.5	15.88	8.74		57.15	-0.38	1.60	1.65	63.0
65A(2 1/2”)	76.3	15.88	8.74		72.26	-0.46	1.98	2.11	78.7
80A (3”)	89.1	15.88	8.74		84.94	-0.46	1.98	2.11	91.4
100A (4”)	114.3	15.88	8.74		110.08	-0.51	2.11	2.11	116.8
125A (5”)	139.8	15.88	8.74		135.48	-0.51	2.11	2.77	142.2
150A (6”)	165.2	15.88	8.74		160.78	-0.56	2.16	2.77	167.6
200A (8”)	216.3	19.05	11.91		211.6	-0.64	2.34	2.77	220.7
250A (10”)	267.4	19.05	11.91		262.6	-0.69	2.39	3.40	271.8
300A (12”)	318.5	19.05	11.91		312.9	-0.76	2.77	3.96	322.8
350A (14”)	355.6	23.83	11.91		350.04	-0.76	2.77	3.96	358.1
400A (16”)	406.4	23.83	11.91		400.84	-0.76	2.77	4.19	408.9
450A (18”)	457.2	25.4	11.91		451.64	-0.76	2.77	4.19	461.26
500A (20”)	508.0	25.4	11.91		502.44	-0.76	2.77	4.78	512.06
550A (22”)	558.8	25.4	12.70		550.06	-0.76	4.37	4.78	563.9
600A (24”)	609.6	25.4	12.70		600.86	-0.76	4.37	5.54	614.68

스테인리스 강관 홈가공 치수 (Stainless Steel Pipe Grooving Dimension)

Unit : mm

파이프 호칭	파이프 외경	A	B	A,B의 허용공차	홈가공부 직경(C)		홈 깊이 (d)	최소두께 (t)	최대허용 끝단외경
					기준값	허용차			
200A(8')	216.3	19.05	11.91	± 0.76	209	-0.64	3.65	2.77	220.7
250A(10')	267.4	19.05	11.91		260	-0.69	3.7	3.40	271.8
300A(12')	318.5	19.05	11.91		310	-0.76	4.25	3.96	322.8
350A(14')	355.6	23.83	11.91		347	-0.76	4.3	3.96	358.1
400A(16')	406.4	23.83	11.91		397	-0.76	4.7	4.19	408.9

* 200A 이하의 호칭은 위의 강관 홈가공 치수표 참조

스테인레스 피팅의 전문기업

(주)대 영 벤 드





GROOVE JOINT



GROOVE FITTING



PIPE GROOVING MACHINES



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