



J&O FLUID CONTROL CO., LIMITED

Sanitary Pipe Fittings



J&O FLUID CONTROL CO., LIMITED

Address: Binhai ETDZ, 5 Road, Longwan, Wenzhou, China. 325000

Tel: +86 577 8663 2750

Fax: +86 577 8663 2850

Mob./WhatsApp: +86 186 5778 5727

Site: www.sanitary-valves.com

Email: Info@jo-pv.com

With more than 15 years of market experiences, we have become the leading supplier service for pharmaceutical, chemical, food, Beverage and Lithium battery companies



Site Code



WhatsApp Code

J&O BRAND, RELIABLE QUALITY FOR YOU

CE&ISO 9001:2015 CERTIFIED ACQUIRED

15 YEARS FLUID SOLUTION EXPERIENCES

EXPORTING TO OVER 40 COUNTRIES

EXCELLENT VALUE-ADDED SERVICE.



We focus on Details
We Make Different
J&O Brand, that can be trust.

J&O PROFILE

J&O Fluid Control Co., Limited established in 2008, a leading Manufacturer and Supplier of high quality hygienic stainless steel flow control equipments.

J&O services the Food, Dairy, Beverage, Cosmetic, Pharmaceutical, Biological engineering, Lithium battery, Semiconductor, Water treatment, Petroleum and Chemical industries.

J&O product series consists of sanitary stainless steel Valves & Fittings:

- >>Sanitary Stainless Steel Pumps
- >>Sanitary Stainless Steel Valves
- >>Stainless Steel Tank Accessories
- >>Stainless Steel Pipe Fittings
- >>Stainless Steel Flanges
- >>Stainless Steel Double Ferrule Tube Fittings
- >>Hydraulic Pneumatic Quick Coupling
- >>Carbon Steel Pipe Fittings
- >>Customized Valve and Fittings

Through the years, "Perfection" has been the only goal we pursue. In order to satisfy customers, with continuous efforts, we are working towards perfection through a Quality Assurance System. With persistence and effort, we have become one of the leading enterprises of sanitary valves and pipe fittings in China.

Our organization is dedicated to provide our customers with best service of every aspect. We strongly believe, that the friendship and trust given by our customers, is the great treasure we have.

J&O[®]

J&O FLUID CONTROL CO., LIMITED

Certificate

ISO9001



**QUALITY MANAGEMENT SYSTEM
CERTIFICATE**

Certificate No.: 20221021325R05

We hereby certify that the organization:
WENZHOU J&O FLUID CONTROL CO., LTD
Unified social credit code: 91330303307697906R
is in conformity with Quality Management System Standard:
GB/T19001-2016 idt ISO9001:2015
The certificate is valid to the following products/service:
**Export of centrifugal pumps,
stainless steel valves and pipe fittings**
Registration Address: ROOM 901-1, 4TH BUILDING, CAIZHI MANSION,
YONGZHONG STREET, LONGWAN, WENZHOU, PROVINCE CHINA
Audit Address: Room 602, Metal Building, Yongzhong Street, Longwan District,
Wenzhou city, Zhejiang Province, China.
Date of Issue: 30-11-2021
Date of Expiry: 29-11-2024
Date of Initial: 30-11-2021
Issued By: 
  中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C197-M

The main of validity of the certificate, the certificate shall be at least once a year.
The effectiveness of the Certificate is subject to QR Code in the lower left corner.
Meanwhile, you can search the website of certification body: www.gpc.org.cn
or search the CNCA website: www.cnca.org.cn
ZHEJIANG QUANPIN CERTIFICATION CO.,LTD.
Room 602, Floor 6, Building 1, No.18, Fuyuan Road, Puyuan Street, Binjiang District, Hangzhou City,
Zhejiang Province, China 310031. Tel: 0571-8709-9000

ICR VERIFICATION OF CONFORMITY

ICR 000000

No.: ICR Polska/VC/HA221005

Name and address of Applicant
Wenzhou J&O Fluid Control Co., Ltd
Room 901-1, 4TH Building, Caizhi Mansion, Yongzhong Street, Longwan, Wenzhou,
China

Name and address of manufacturer
Wenzhou J&O Fluid Control Co., Ltd
Room 901-1, 4TH Building, Caizhi Mansion, Yongzhong Street, Longwan, Wenzhou,
China

Product name:
Butterfly Valve, Ball Valve, Globe Valve, Check Valve, Gate Valve,
Control Valve, Diaphragm Valve, Angle Seat Valve, Tank Bottom Valve,
Safety Valve, Pressure Relief Valve, Sampling Valve, Reversing Valve,
Discharge Valve, Plug Valve, PTFE Lined Valve, PFA Lined Valve,
FEP Lined Valve

Product types:
n/a

Product trademark:
n/a

This document confirms that the product sample meets the requirements of the following standard:
• Related with Directive 2014/68/EU:
EN 12266-1:2003 as well as DIN 3357-8:1989
EN 1584:2010 DIN EN 559:2018
EN 13709:2010 BS 1873:1975
The assessment process has been carried out in accordance with individual rules and conditions agreed with the applicant. Evaluation has been carried out in accordance with:
Test reports: TCT221021220-P2D
Tests conducted by: Guangdong TCT Testing Laboratory Ltd.
Issue date: 26.10.2022
Expiration date: 25.10.2027
Remarks:
This verification of conformity refers to the above mentioned product and its conformity to the requirements of the standard(s) was proven on test sample.
This verification of conformity was issued on voluntary basis and does not imply meeting all essential requirements, assessment of the series-production or any other restricted technical bodies conformity assessment procedure appropriate for the product.
CE marking symbol:
mark is not sanctioned by the following verification of conformity mark given here as reference, can be only use by the manufacturer after applying all essential requirements from relevant directives.
Document status can be checked <https://icr.icrpolonia.com>
 
ICR Polska Co. Ltd
www.icrpolonia.com
Director: Rafal Kalinowski
Warsaw, 26.10.2022


Plant & Prducing



Testing Machine



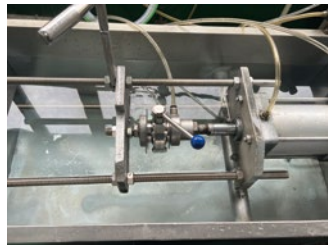
Actuator Testing



Helium Leak Detector



Pressure Test for Large Valve



Pressure Test for Small Valve

Sanitary Pipe Fittings

Our Core Values: Team, Details, Altruism, Innovation and Embrace Change.

• Sanitary Pipe Fittings

J&O FLUID CONTROL CO., LIMITED

J&O®

High Quality Sanitary Tubes and Fittings



J&O produces various pipe fittings that comply with standards such as DIN, 3A, SMS, ISO, IDF, BS, RJT, DS, etc. Sanitary stainless steel pipe fittings include 45 ° /90 ° /180 ° elbows, tees, crosses and reducers. There are four common connection ways for various series of pipe fittings, including weld, tri-clamp, thread and flange, to connect to the pipeline system.

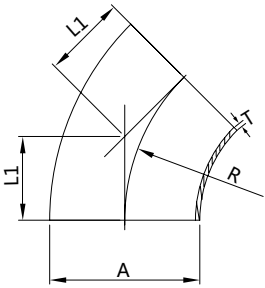
J&O is committed to manufacturing pipe fittings with corrosion resistance, durability, reliable welding and the highest strength to meet customer requirements. There are strict tolerance controls in each manufacturing process, and there are multiple surface finish ways for pipe fittings with uniform thickness.

J&O is well aware that products such as valves and fittings are very important in the fields of pharmaceuticals, beer, food, dairy, beverages, cosmetics and chemicals, so the products must meet extremely high precision and roughness requirements. To ensure the interchangeability of J&O pipe fittings and the high precision of the product, each part is processed by CNC machines. J&O various series of products enjoy a good reputation in the sanitary fluid equipment industry.

DIN

45° Welded Elbow

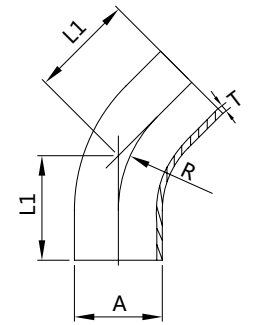
Size	A	R	L1	T
DN10	12/13	26	10.7	1.5
DN15	18/19	35	14.5	1.5
DN20	22/23	40	16.5	1.5
DN25	28/29	50	20.7	1.5
DN32	34/35	55	22.8	1.5
DN40	40/41	60	24.8	1.5
DN50	52/53	70	29	1.5
DN65	70	80	33.2	2
DN80	85	90	37.3	2
DN100	104	100	41.5	2
DN125	129	187.5	77.5	2
DN150	154	225	93.2	2
DN200	204	300	124.3	2
DN250	254	325	155.3	2
DN300	306	450	186.4	3



JOE-DEBH45S-11

45° Long Welded Elbow

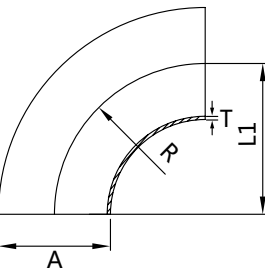
Size	A	R	L1	T
DN10	12/13	26	35.8	1.5
DN15	18/19	35	39.5	1.5
DN20	22/23	40	41.6	1.5
DN25	28/29	50	60.7	1.5
DN32	34/35	55	62.8	1.5
DN40	40/41	60	64.9	1.5
DN50	52/53	70	69	1.5
DN65	70	80	73	2
DN80	85	90	92.3	2
DN100	104	100	96.4	2
DN125	129	187.5	135.2	2
DN150	154	225	156.7	2



JOE-DEBH45-11

90° Welded Elbow

Size	A	R	L1	T
DN10	12/13	26	26	1.5
DN15	18/19	35	35	1.5
DN20	22/23	40	40	1.5
DN25	28/29	50	50	1.5
DN32	34/35	55	55	1.5
DN40	40/41	60	60	1.5
DN50	52/53	70	70	1.5
DN65	70	80	80	2
DN80	85	90	90	2
DN100	104	100	100	2
DN125	129	187	187	2
DN150	154	225	225	2
DN200	204	300	300	2
DN250	254	375	254	2
DN300	306	450	306	3

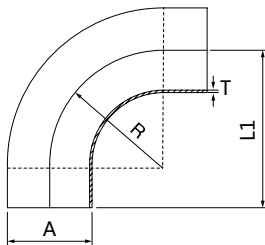


JOE-DEBH90S-11

DIN

90° Long Welded Elbow

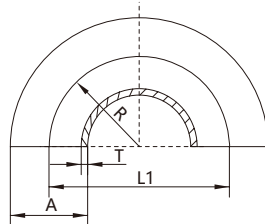
Size	A	R	L1	T
DN10	12/13	26	38/51	1.5
DN15	18/19	35	47/60	1.5
DN20	22/23	40	52/65	1.5
DN25	28/29	50	70/90	1.5
DN32	34/35	55	78/95	1.5
DN40	40/41	60	85/100	1.5
DN50	52/53	70	97/110	1.5
DN65	70	80	110/120	2
DN80	85	90	118/145	2
DN100	104	100	140/155	2
DN125	129	187	227	2
DN150	154	225	265	2



JOE-DEBH90L-11

180° Welded Elbow

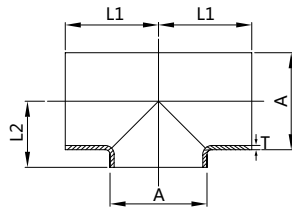
Size	A	R	L1	T
DN10	12/13	26	52	1.5
DN15	18/19	35	70	1.5
DN20	22/23	40	80	1.5
DN25	28/29	50	100	1.5
DN32	34/35	55	110	1.5
DN40	40/41	60	120	1.5
DN50	52/53	70	140	1.5
DN65	70	80	160	2
DN80	85	90	180	2
DN100	104	100	200	2
DN125	129	187.5	375	2
DN150	154	225	450	2
DN200	204	300	600	2
DN250	254	375	750	2
DN300	306	450	900	3



JOE-DEBH180-11

Short Welded Tee

Size	A	L1	L2	T
DN10	12/13	26	7.5	1.5
DN15	18/19	35	10.5	1.5
DN20	22/23	40	12.5	1.5
DN25	28/29	50	16	1.5
DN32	34/35	55	19.5	1.5
DN40	40/41	60	22.5	1.5
DN50	52/53	70	30	1.5
DN65	70	80	39.5	2
DN80	85	90	47.5	2
DN100	104	100	58	2
DN100	101.6	150	56	2
DN125	129	187	70.5	2
DN150	154	225	83	2
DN200	204	300	115	2
DN250	254	216	140	2
DN300	306	254	165	3

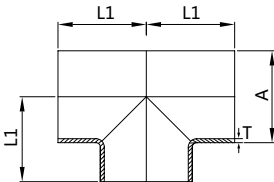


JOE-DNTEHS-11

DIN

Welded Tee

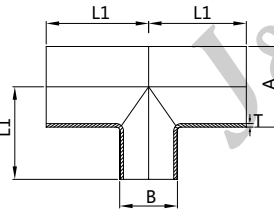
Size	A	L1	T
DN10	12/13	26	1.5
DN15	18/19	35	1.5
DN20	22/23	40	1.5
DN25	28/29	50	1.5
DN32	34/35	55	1.5
DN40	40/41	60	1.5
DN50	52/53	70	1.5
DN65	70	80	2
DN80	85	90	2
DN100	104	100	2
DN125	129	187	2
DN150	154	225	2
DN200	204	300	2
DN250	254	216	2
DN300	306	254	3



JOF-DNTEHE-11

Long Welded Reducing Tee

DN	A×B	L1	T
25-20	28×22	50	1.5
32-25	34×28	55	1.5
40-25	40×28	60	1.5
40-32	40×34	60	1.5
50-25	52×28	70	2
50-32	52×34	70	2
50-40	52×40	70	2
65-25	70×28	80	2
65-32	70×34	80	2
65-40	70×40	80	2
65-50	70×52	80	2
80-25	85×28	90	2
80-32	85×34	90	2
80-40	85×40	90	2
80-50	85×52	90	2
80-65	85×70	90	2
100-25	104×28	100	2
100-32	104×34	100	2
100-40	104×40	100	2
100-50	104×52	100	2
100-65	104×70	100	2
100-80	104×85	100	2
125-25	129×28	187.5	2
125-32	129×104	187.5	2
125-40	129×104	187.5	2
125-50	129×104	187.5	2
125-65	129×104	187.5	2
125-80	129×104	187.5	2
125-100	129×104	187.5	2
150-32	154×34	225	2
150-40	154×40	225	2
150-50	154×52	225	2
150-65	154×70	225	2
150-80	154×85	225	2
150-100	154×104	225	2
150-125	154×129	225	2

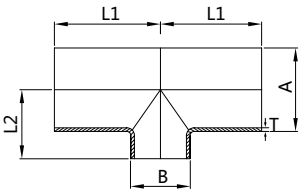


JOF-DNTEHRE-11

DIN

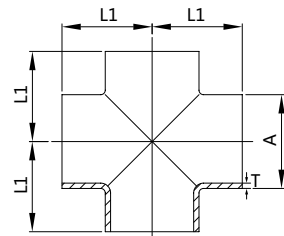
Short Welded Reducing Tee

DN	A×B	L1	L2	T
25-20	28×22	50	17	1.5
32-25	34×28	55	19.5	1.5
40-25	40×28	60	22.5	1.5
40-32	40×34	60	22.5	1.5
50-25	52×28	70	29.5	2
50-32	52×34	70	29.5	2
50-40	52×40	70	29.5	2
65-25	70×28	80	39	2
65-32	70×34	80	39	2
65-40	70×40	80	39	2
65-50	70×52	80	46.5	2
80-25	85×28	90	46.5	2
80-32	85×34	90	46.5	2
80-40	85×40	90	46.5	2
80-50	85×52	90	46.5	2
80-65	85×70	90	46.5	2
100-25	104×28	100	56	2
100-32	104×34	100	56	2
100-40	104×40	100	56	2
100-50	104×52	100	56	2
100-65	104×70	100	56	2
100-80	104×85	100	56	2
125-25	129×28	187.5	68.5	2
125-32	129×104	187.5	68.5	2
125-40	129×104	187.5	68.5	2
125-50	129×104	187.5	68.5	2
125-65	129×104	187.5	68.5	2
125-80	129×104	187.5	68.5	2
125-100	129×104	187.5	68.5	2
150-32	154×34	225	81	2
150-40	154×40	225	81	2
150-50	154×52	225	81	2
150-65	154×70	225	81	2
150-80	154×85	225	81	2
150-100	154×104	225	81	2
150-125	154×129	225	81	2



JOF-DNTEHRES-11

DIN



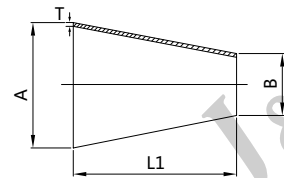
JOF-DNCRSHE-11

Welded Cross

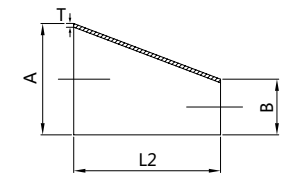
Size	A	L1	T
DN10	12/13	26	1.5
DN15	18/19	35	1.5
DN20	22/23	40	1.5
DN25	28/29	50	1.5
DN32	34/35	55	1.5
DN40	40/41	60	1.5
DN50	52/53	70	1.5
DN65	70	80	2
DN80	85	90	2
DN100	104	100	2
DN125	129	187	2
DN150	154	225	2
DN200	204	300	2
DN250	254	216	2
DN300	306	254	3

Welded Reducer

Size	A	B	L1	L2	T
DN15/10	18/19	12/13	11		1.5×1.5
DN20/10	22/23	12/13	18		1.5×1.5
DN20/15	22/23	18/19	7		1.5×1.5
DN25/15	28/29	18/19	18		1.5×1.5
DN25/20	28/29	22/23	11		1.5×1.5
DN32/20	34/35	22/23	22		1.5×1.5
DN32/25	34/35	28/29	11	16.5	1.5×1.5
DN40/20	40/41	22/23	33		1.5×1.5
DN40/25	40/41	28/29	22	33	1.5×1.5
DN40/32	40/41	34/35	22	16.5	1.5×1.5
DN50/25	52/53	28/29	44	66	1.5×1.5
DN50/32	52/53	34/35	33	49.5	1.5×1.5
DN50/40	52/53	40/41	22	33	1.5×1.5
DN65/25	70	28/29	73		2×1.5
DN65/32	70	34/35	62		2×1.5
DN65/40	70	40/41	51	77	2×1.5
DN65/50	70	52/53	29	44	2×1.5
DN80/40	85	40/41	78		2×1.5
DN80/50	85	52/53	56	85	2×1.5
DN80/65	85	70	27	41.2	2×2
DN100/50	104	52/53	90	137.5	2×1.5
DN100/65	104	70	61	93.5	2×2
DN100/80	104	85	34	52.5	2×2
DN125/80	129	85	80		2×2
DN125/100	129	104	45		2×2
DN150/100	129	104	90		2×2
DN150/125	154	129	45		2×2
DN200/150	204	154	90		2×2

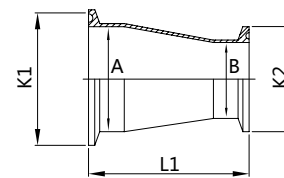


JOF-DCORD-11

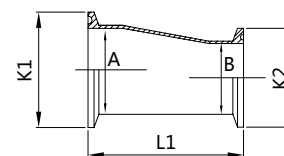


JOF-DECRD-11

DIN



JOF-DCORD-22

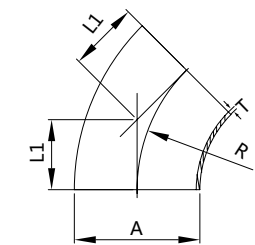


JOF-DECRD-22

Clamped Reducer

Size	A	B	K1×K2	L1
DN20/15	22/23	18/19	34×34	86
DN25/20	28/29	22/23	50.5×34	86
DN32/20	34/35	22/23	50.5×34	106
DN32/25	34/35	28/29	50.5×50.5	106
DN40/20	40/41	22/23	50.5×34	128
DN40/25	40/41	28/29	50.5×50.5	128
DN40/32	40/41	34/35	50.5×50.5	128
DN50/25	52/53	28/29	64×50.5	141
DN50/32	52/53	34/35	64×50.5	141
DN50/40	52/53	40/41	64×50.5	141
DN65/25	70	28/29	91×50.5	151
DN65/32	70	34/35	91×50.5	151
DN65/40	70	40/41	91×50.5	146
DN65/50	70	52/53	91×64	146
DN80/40	85	40/41	106×50.5	166
DN80/50	85	52/53	106×64	151
DN80/65	85	70	106×91	146
DN100/50	104	52/53	119×64	192
DN100/65	104	70	119×91	159
DN100/80	104	85	119×106	152

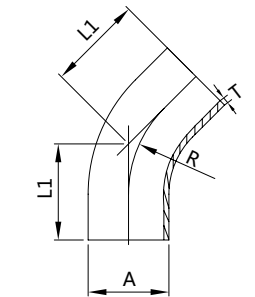
SMS



JOFSMEBH45S-11

45° Welded Elbow

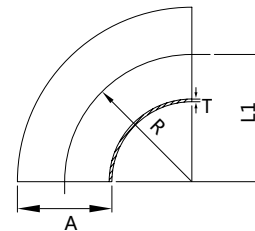
Size	A	R	L1	T
25	25.4	38.1	15.5	1.25/1.5
38	38.1	57.2	23.6	1.25/1.5
51	50.8	76.2	31.6	1.25/1.5
63	63.5	95.3	39.5	1.5/2
76	76.2	114.3	47.2	1.6/2
102	101.6	152.4	63	2
127	127	190.5	78.9	2
152.4	152.4	228.6	94.7	2
203.2	203.2	305	126.3	2



JOFSMEBH45L-11

45° Long Welded Elbow

Size	A	R	L1	T
25	25.4	38.7	42.5	1.25/1.5
38	38.1	57.2	56.8	1.25/1.5
51	50.8	76.2	68.6	1.25/1.5
63	63.5	95.2	78.4	1.65/2
76	76.2	114.3	85.2	1.6/2
102	101.6	152.4	103	2
127	127	190.5	142.4	2
152.4	152.4	228.6	158.2	2
203.2	203.2	305	202.5	2

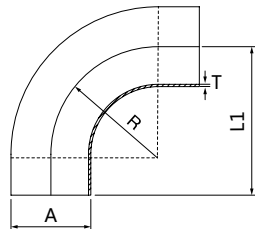


JOFSMEBH90S-11

90° Welded Elbow

Size	A	R	L1	T
25	25.4	38.1	38.1	1.25/1.5
32	31.8	47.7	47.7	1.25/1.5
38	38.1	57.2	57.1	1.25/1.5
51	50.8	76.2	76.2	1.25/1.5
63	63.5	95.2	95.2	1.5/2
76	76.2	114.3	114.3	1.65/2
102	101.6	152.4	152.4	2
104	104	152.4	152.4	2
127	127	190.5	190.5	2
152.4	152.4	228.6	228.6	2
203.2	203.2	305	305	2

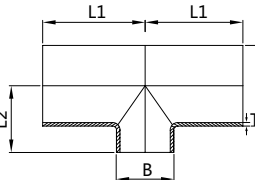
SMS



JOFSMEBH90L-11

90° Long Welded Elbow

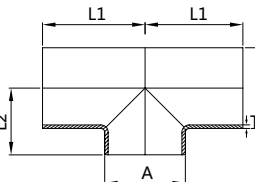
Size	A	R	L1	T
25	25.4	38.1	55	1.25/1.5
38	38.1	57.2	70	1.25/1.5
51	50.8	76.2	82	1.25/1.5
63	63.5	95.2	105	1.5/2
76	76.2	114.3	110	1.6/2
102	101.6	152.4	150	2
104	104	152.4	150	2
127	129	190.5	254	2
152.4	152.4	228.6	292	2
203.2	203.2	305	381	2



JOFSMTEHRES-11

Reducing Welded Flat Tee

Size	A×B	L1	L2	T
38-25	38×25	70	21	1.5
51-25	51×25	82	29	1.5
51-38	51×38	82	29	1.5
63.5-25	63.5×25	105	36	1.5
63.5-38	63.5×38	105	36	1.5
63.5-51	63.5×51	105	36	1.5
76-25	76.1×25	110	44	1.6
76-38	76.1×38	110	44	1.6
76-51	76.1×51	110	44	1.6
76-63.5	76.1×63.5	110	44	1.6
101.6-25	101.6×25	150	58	2
101.6-38	101.6×38	150	58	2
101.6-51	101.6×51	150	58	2
101.6-63.5	101.6×63.5	150	58	2
101.6-76	101.6×76.1	150	58	2

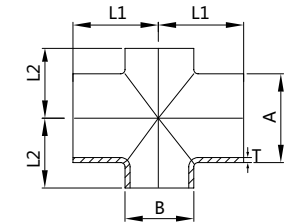


JOFSMTEHS-11

Equal Welded Flat Tee

Size	A	L1	L2	T
25	25	55	15	1.25/1.5
38	38	70	21	1.25/1.5
51	51	82	29	1.25
63.5	63.5	105	36	1.5
76	76.1	110	44	1.6
101.6	101.6	150	58	2
127	127	190.5	72	2
152.4	153.4	228.6	85	2
203.2	203.2	305	110	2

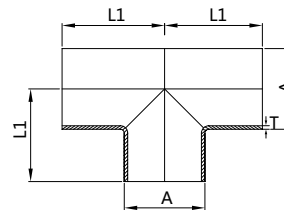
SMS



JOF-SMCRSHRE-11

Reducing Welded Cross

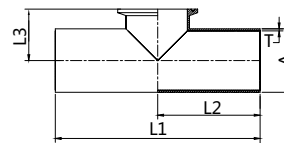
Size	A×B	L1	L2	T
38-25	38×25	70	21	1.25
51-25	51×25	82	29	1.25
51-38	51×38	82	29	1.25
63.5-25	63.5×25	105	36	1.5
63.5-38	63.5×38	105	36	1.5
63.5-51	63.5×51	105	36	1.5
76-25	76.1×25	110	44	1.6
76-38	76.1×38	110	44	1.6
76-51	76.1×51	110	44	1.6
76-63.5	76.1×63.5	110	44	1.6
101.6-25	101.6×25	150	58	2
101.6-38	101.6×38	150	58	2
101.6-51	101.6×51	150	58	2
101.6-63.5	101.6×63.5	150	58	2
101.6-76	101.6×76.1	150	58	2



JOF-SMTEHE-11

Equal Tee

Size	A	L1	T
25	25	55	1.25
38	38	70	1.25
51	51	81	1.25
63.5	63.5	105	1.5
76	76.1	110	1.6
101.6	101.6	150	2
127	127	190.5	2
152.4	152.4	228.6	2
203.2	203.2	305.2	2

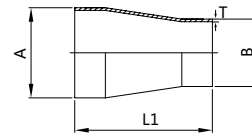


JOF-SMTEHS-12

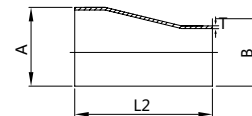
Equal Tee

Size	A	L1	L2	L3	T
25	25	110	55	26.7	1.2
38	38	140	70	33.7	1.2
51	51	164	82	41.2	1.2
63.5	63.5	210	105	48	1.6
76	76.1	220	110	54.2	1.6
101.6	101.6	300	150	70.5	2

SMS



JOF-SCORD-11



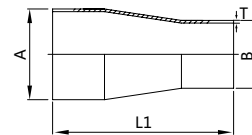
JOF-SECRD-11

Welded Reducer

Size	A×B	L1	L2	T
38.1-25.4	38.1×25.4	39	46	1.25×1.25 1.5×1.5
50.8-25.4	50.8×25.4	57	68	1.25×1.25 1.5×1.5
50.8-38.1	50.8×38.1	39	47	1.25×1.25 1.5×1.5
63.5-25.4	63.5×25.4	74	92	1.65×1.65 2×2
63.5-38.1	63.5×38.1	57	70	1.65×1.65 2×2
63.5-50.8	63.5×50.8	39	44	1.65×1.65 2×2
76.2-25.4	76.2×25.4	92	117	1.65×1.65 2×2
76.2-38.1	76.2×38.1	74	92	1.65×1.65 2×2
76.2-50.8	76.2×50.8	57	68	1.65×1.65 2×2
76.2-63.5	76.2×63.5	39	47	1.65×1.65 2×2
101.6-50.8	101.6×50.8	95	117	2×1.25
101.6-63.5	101.6×63.5	78	94	2×1.5
101.6-76.2	101.6×76.2	60	74	2×1.65

Concentric Reducers (Long)

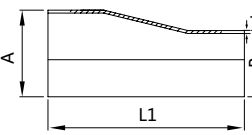
Size	A×B	L1	T
25-19	25×19	85	1.25×1.25 1.5×1.5
38-19	38×19	85	1.25×1.25 1.5×1.5
38-25	38×25	99	1.25×1.25 1.5×1.5
51-25	51×25	117	1.25×1.25 1.5×1.5
51-38	51×38	99	1.25×1.25 1.5×1.5
63.5-25	63.5×25	134	1.65×1.65 2×2
63.5-38	63.5×38	117.5	1.65×1.65 2×2
63.5-51	63.5×51	99	1.65×1.65 2×2
76.1-25	76.1×25	152	1.65×1.65 2×2
76.1-38	76.1×38	134	1.65×1.65 2×2
76.1-51	76.1×51	117	1.65×1.65 2×2
76.1-63	76.1×63.5	99	1.65×1.65 2×2
102-51	102×51	155	2×1.25
102-63	102×63.5	138	2×1.5
102-76	102×76.1	120	2×1.65



JOF-SCORDEX-11

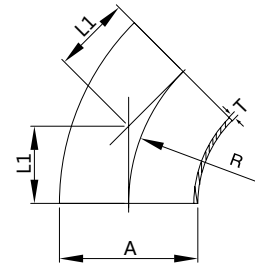
Eccentric Reducers (Long)

Size	A×B	L1	T
38-25	38×25	106	1.25×1.25 1.5×1.5
51-25	51×25	128	1.25×1.25 1.5×1.5
51-38	51×38	107	1.25×1.25 1.5×1.5
63.5-25	63.5×25	150.5	1.65×1.65 2×2
63.5-38	63.5×38	130	1.65×1.65 2×2
63.5-51	63.5×51	104	1.65×1.65 2×2
76.1-38	76.1×38	149	1.65×1.65 2×2
76.1-51	76.1×51	128	1.65×1.65 2×2
76.1-63	76.1×63.5	107	1.65×1.65 2×2
101-51	101.6×51	177	2×2
101-63	101.6×63.5	154	2×2
101-76	101.6×76.1	134	2×2
102-51	102×51	177	2×2
102-63	102×63.5	154	2×2
102-76	102×76.1	134	2×2



JOF-SECRDEX-11

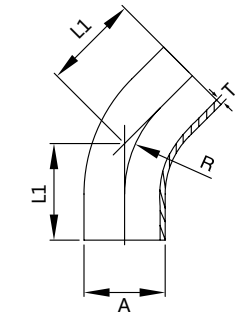
3A



JOF-3A2WK-11

45° Welded Elbow

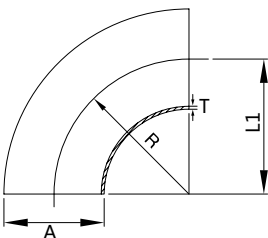
Size	A	R	L1	T
1/2"	12.7	19	7.1	1.65
3/4"	19	28.6	11.9	1.65
1"	25.4	38.1	15.8	1.65
1 1/4"	31.8	47.7	19.8	1.65
1 1/2"	38.1	57.2	23.8	1.65
2"	50.8	76.2	31.8	1.65
2 1/2"	63.5	95.3	39.6	1.65
3"	76.2	114.3	47.6	1.65
4"	101.6	152.4	63.5	2.1
6"	152.4	228.6	94.7	2.8
8"	203.2	305.2	126.4	2.8
10"	254	381	157.8	2.8
12"	304.8	457	189.3	2.8



JOF-3AL2KS-11

45° Long Welded Elbow

Size	A	R	L1	T
1/2"	12.7	19	57.2	1.65
3/4"	19.5	28.58	57.2	1.65
1"	25.4	38.1	30.2	1.65
1 1/4"	31.8	47.7	41.3	1.65
1 1/2"	38.1	57.2	41.3	1.65
2"	50.8	76.2	58.7	1.65
2 1/2"	63.5	95.3	76.2	1.65
3"	76.2	114.3	93.7	1.65
4"	101.6	152.4	122.2	1.65
6"	152.4	228.6	158.2	2.8

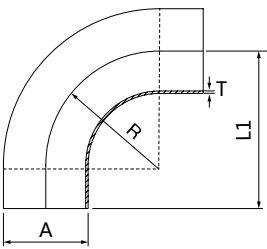


JOF-3AEBH90S-11

90° Welded Elbow

Size	A	R	L1	T
1/2"	12.7	19.1	19.1	1.65
3/4"	19.1	28.6	28.6	1.65
1"	25.4	38.1	38.1	1.65
1 1/4"	31.8	47.7	47.7	1.65
1 1/2"	38.1	57.2	57.2	1.65
2"	50.8	76.2	76.2	1.65
2 1/2"	63.5	95.3	95.3	1.65
3"	76.2	114.3	114.3	1.65
4"	101.6	152.4	152.4	1.65
5"	127	190.5	190.5	2
6"	152.4	228.6	228.6	2.8
8"	203.2	304.8	304.8	2.8
10"	254	381	381	2.8
12"	304.8	457.2	457.2	2.8

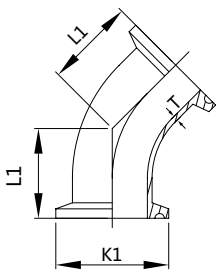
3A



JOF-3AEBH90L-11

90° Long Welded Elbow

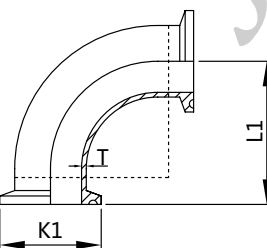
Size	A	R	L1	T
1/2"	12.7	19.1	25.4	1.65
3/4"	19.1	28.6	38.1	1.65
1"	25.4	38.1	52.4	1.65
1 1/4"	31.8	47.7	69.7	1.65
1 1/2"	38.1	57.2	74.6	1.65
2"	50.8	76.2	103.2	1.65
2 1/2"	63.5	95.3	131.8	1.65
3"	76.2	114.3	160.3	1.65
4"	101.6	152.4	211.1	2
6"	152.4	228.6	292.1	2.8
8"	203.2	228.6	304.8	2.8



JOF-3AEBH45-22

45° Clamped Elbow

Size	L1	K1	T
1"	28.5	50.5	1.65
1 1/2"	36.5	50.5	1.65
2"	44.5	64	1.65
2 1/2"	52.3	77	1.65
3"	60.3	91	1.65
4"	76.2	119	2.1

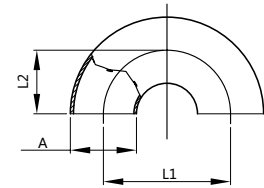


JOF-3AEBH90-22

90° Clamped Elbow

Size	L1	K1	T
1"	50.8	50.5	1.65
1 1/2"	69.9	50.5	1.65
2"	88.9	64	1.65
2 1/2"	108	77	1.65
3"	127	91	1.65
4"	168.2	119	2.1

3A

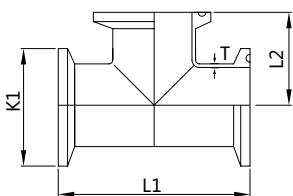


JOF-3A2EB180-11

180° Welded Elbow

Size	A	L1	L2
1"	25.4	76.2	38.1
1 1/2"	38.1	114.3	57.2
2"	50.8	152.4	76.2
2 1/2"	63.5	190.5	95.3
3"	76.2	228.6	114.3
4"	101.6	304.8	152.4

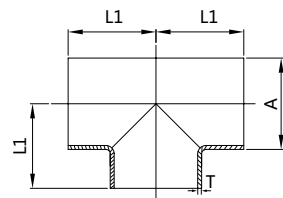
3A



JOF-TEHS-22

Clamped Tee

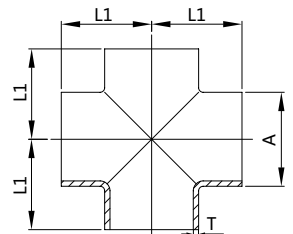
Size	L1	L2	K1	T
1"	120.6	60.3	50.5	1.65
1 1/2"	139.8	69.9	50.5	1.65
2"	177.8	88.9	64	1.65
2 1/2"	177.8	88.9	77	1.65
3"	190.6	95.3	91	1.65
4"	228.4	114.2	119	2.1



JOF-TEHS-11

Short Welded Tee

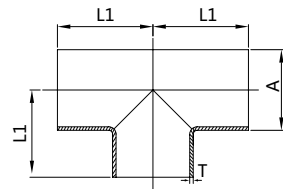
Size	A	L1	T
1/2"	12.7	19	1.65
3/4"	19	28.6	1.65
1"	25.4	28.6	1.65
1 1/4"	31.8	35	1.65
1 1/2"	38.1	42	1.65
2"	50.8	52.3	1.65
2 1/2"	63.5	59.5	1.65
3"	76.2	65.9	1.65
4"	101.6	87.3	2.11
6"	152.4	127	2.8
8"	203.2	178	2.8
10"	254	216	2.8



JOF-CRSH-11

Short Welded Cross

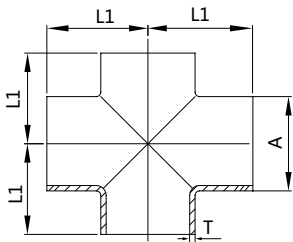
Size	A	L1	T
1"	25.4	28.6	1.65
1 1/4"	31.8	38	1.65
1 1/2"	38.1	42.1	1.65
2"	50.8	52.4	1.65
2 1/2"	63.5	54.5	1.65
3"	76.2	65.9	1.65
4"	101.6	87.3	2.11



JOF-TEHL-11

Long Welded Tee

Size	A	L1	T
1/2"	12.7	47.6	1.65
3/4"	19	47.6	1.65
1"	25.4	47.6	1.65
1 1/4"	31.8	55	1.65
1 1/2"	38.1	57.2	1.65
2"	50.8	76.2	1.65
2 1/2"	63.5	76.2	1.65
3"	76.2	82.6	1.65
4"	101.6	98.4	2.11
6"	152.4	143	2.8
8"	203.2	178	2.8
10"	254	216	2.8

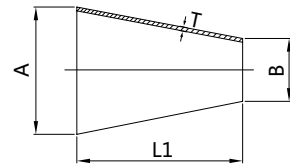


JOF-CRSHL-11

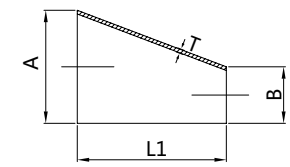
Long Welded Cross

Size	A	L1	T
1/2"	12.7	76.2	1.65
3/4"	19	47.6	1.65
1"	25.4	47.6	1.65
1 1/4"	31.8	55	1.65
1 1/2"	38.1	57.2	1.65
2"	50.8	76.2	1.65
2 1/2"	63.5	76.2	1.65
3"	76.2	82.6	1.65
4"	101.6	98.4	2.11
6"	152.4	127	2.77

3A



JOF-3ACORD-11



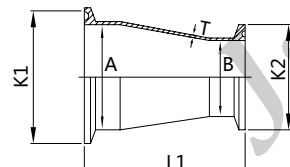
JOF-3AECRD-11

Welded Reducer

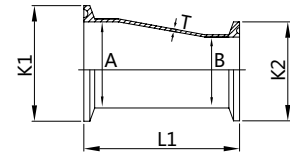
Size	A×B	L1	T
1"-3/4"	25.4×19	25.4	1.65×1.65
1 1/2"-3/4"	38.1×19	76.2	1.65×1.65
1 1/2"-1"	38.1×25.4	50.8	1.65×1.65
2"-1"	50.8×25.4	101.6	1.65×1.65
2"-1 1/2"	50.8×38.1	50.8	1.65×1.65
2 1/2"-1"	63.5×25.4	152.4	1.65×1.65
2 1/2"- 1 1/2"	63.5×38.1	101.6	1.65×1.65
2 1/2"-2"	63.5×50.8	50.8	1.65×1.65
3"-1"	76.2×25.4	203.2	1.65×1.65
3"-1 1/2"	76.2×38.1	152.4	1.65×1.65
3"-2"	76.2×50.8	101.6	1.65×1.65
3"-2 1/2"	76.2×63.5	50.8	1.65×1.65
4"-1 1/2"	101.6×38.1	254	2.11×1.65
4"-2"	101.6×50.8	203.2	2.11×1.65
4"-2 1/2"	101.6×63.5	152.4	2.11×1.65
4"-3"	101.6×76.2	101.6	2.11×1.65
6"-3"	152.4×76.2	140	2.77×1.65
6"-4"	152.4×101.6	140	2.77×2.11

Clamped Reducer

Size	A×B	K1×K2	L1	T
3/4"-1/2"	19 ×12.7	25.2×25.2	50.8	1.65×1.65
1"-1/2"	25.4×12.7	50.5×25.2	76.2	1.65×1.65
1"-3/4"	25.4×19	50.5×25.2	50.8	1.65×1.65
1 1/2"-3/4"	38.1×19	50.5×25.2	101.6	1.65×1.65
1 1/2"-1"	38.1×25.4	50.5×50.5	76.2	1.65×1.65
1 1/2"-1/2"	38.1×12.7	50.5×25.2	127	1.65×1.65
2"-1/2"	51×12.7	64×25.2	177.8	1.65×1.65
2"-3/4"	51×19	64×25.2	152.4	1.65×1.65
2"-1"	50.8×25.4	64×50.5	127	1.65×1.65
2"-1 1/2"	50.8×38.1	64×50.5	76.2	1.65×1.65
2 1/2"-1 1/2"	63.5×38.1	77.5×50.5	127	1.65×1.65
2 1/2"-2"	63.5×50.8	77.5×64	76.2	1.65×1.65
3"-1"	76.2×25.4	91×50.5	228.6	1.65×1.65
3"-1 1/2"	76.2×38.1	91×50.5	177.8	1.65×1.65
3"-2"	76.2×50.8	91×64	127	1.65×1.65
3"-2 1/2"	76.2×63.5	91×77.5	76.2	1.65×1.65
4"-1/2"	101.6×38.1	119×50.5	282.5	2×1.65
4"-2"	101.6×50.8	119×64	231.8	2×1.65
4"-2 1/2"	101.6×63.5	119×77.5	181	2×1.65
4"-3"	101.6×76.2	119×91	130.2	2×1.65
6"-3"	152.4×76.2	167×91	263.5	2.8×1.65
6"-4"	152.4×101.6	167×119	266.7	2.8×2.1

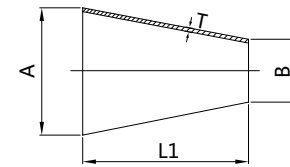


JOF-3ACORD-22



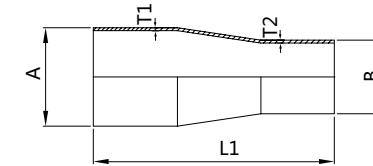
JOF3AECRD-22

3A



Concentric Reducer

Size	A×B	L1	T
1/2"×1/4"	12.7×6.35	25.4	1.65
1/2"×3/8"	12.7×9.53	25.4	1.65
3/4"×1/2"	19.1×12.7	25.4	1.65
3/4"×3/8"	19.1×9.53	25.4	1.65
1"×1/2"	25.4×12.7	38.1	1.65
1"×3/8"	25.4×9.53	38.1	1.65
1"×3/4"	25.4×19.1	25.4	1.65
1.5"×1/2"	38.1×12.7	63.5	1.65
1.5"×3/4"	38.1×19.1	50.8	1.65
1.5"×1"	38.1×25.4	50.8	1.65
2"×1/2"	50.8×12.7	114.3	1.65
2"×3/4"	50.8×19.1	101.6	1.65
2"×1"	50.8×25.4	101.6	1.65
2"×1.5"	50.8×38.1	50.8	1.65
2.5"×1"	63.5×25.4	152.4	1.65
2.5"×1.5"	63.5×38.1	101.6	1.65
2.5"×2"	63.5×50.8	50.8	1.65
3"×1"	76.2×25.4	203.2	1.65
3"×1.5"	76.2×38.1	152.4	1.65
3"×2"	76.2×50.8	101.6	1.65
3"×2.5"	76.2×63.2	50.8	1.65
4"×1"	101.6×25.4	304.8	2.1
4"×1.5"	101.6×38.1	254	2.1
4"×2"	101.6×50.8	203.2	2.1
4"×2.5"	101.6×63.2	152.4	2.1
4"×3"	101.6×76.2	101.6	2.1
5"×4"	127×101.6	70	2.77
6"×3"	152.4×76.2	241.3	2.77
6"×4"	152.4×101.6	139.7	2.77

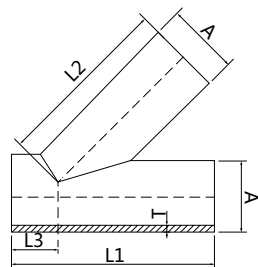


JOF-3ACORDEX-11

Long Concentric Reducer

Size	A×B	L1	T
1/2"×1/4"	12.7×6.35	101.6	1.65
1/2"×3/8"	12.7×9.53	101.6	1.65
3/4"×3/8"	19.1×9.53	101.6	1.65
3/4"×1/2"	19.1×12.7	101.6	1.65
1"×1/2"	25.4×12.7	114.3	1.65
1"×3/8"	25.4×9.53	114.3	1.65
1"×3/4"	25.4×19.1	101.6	1.65
1.5"×1/2"	38.1×12.7	139.7	1.65
1.5"×3/4"	38.1×19.1	127	1.65
1.5"×1"	38.1×25.4	127	1.65
2"×1/2"	50.8×12.7	196.9	1.65
2"×3/4"	50.8×19.1	184.2	1.65
2"×1"	50.8×25.4	184.2	1.65
2"×1.5"	50.8×38.1	133.4	1.65
2.5"×1/2"	63.5×12.7	247.7	1.65
2.5"×3/4"	63.5×19.1	235	1.65
2.5"×1"	63.5×25.4	235	1.65
2.5"×1.5"	63.5×38.1	184.2	1.65
2.5"×2"	63.5×50.8	139.7	1.65
3"×1/2"	76.2×12.7	298.5	1.65
3"×1"	76.2×25.4	285.8	1.65
3"×1.5"	76.2×38.1	235	1.65
3"×2"	76.2×50.8	190.5	1.65
3"×2.5"	76.2×63.5	139.7	1.65
4"×1"	101.6×25.4	393.7	2.1
4"×1.5"	101.6×38.1	342.9	2.1
4"×2"	101.6×50.8	298.5	2.1
4"×2.5"	101.6×63.5	247.7	2.1
4"×3"	101.6×76.2	196.9	2.1
6"×4"	152.4×101.6	254	2.77

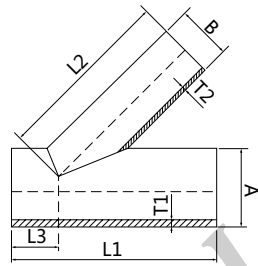
3A



JOF-TEYH03-11

Butt Weld Y-Type Tee

Size	A	L1	L2	L3	T
1/2"	12.7	152.4	127	25.4	1.65
3/4"	19.05	152.4	127	25.4	1.65
1"	25.4	152.4	127	25.4	1.65
1 1/2"	38.1	187.3	173.1	30.2	1.65
2"	50.8	222.2	180.9	41.3	1.65
2 1/2"	63.5	254	215.9	38.1	1.65
3"	76.2	273.1	225.4	47.6	1.65
4"	101.6	325.5	273.1	52.4	2.1
6"	152.4	419.1	317.5	101.6	2.8

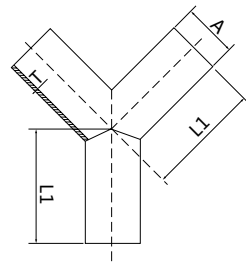


JOF-TEYH03R-11

Butt Y-Type Reducer Tee

Size	A×B	L1	L2	L3	T1×T2
1 1/2"-1"	38.1×25.4	187.3	157.2	30.2	1.65×1.65
2"-1"	50.8×25.4	222.2	181	41.3	1.65×1.65
2"-1 1/2"	50.8×38.1	222.2	181	41.3	1.65×1.65
2 1/2"-1"	63.5×25.4	254	215.9	38.1	1.65×1.65
2 1/2"-1 1/2"	63.5×38.1	254	215.9	38.1	1.65×1.65
2 1/2"-2"	63.5×50.8	254	215.9	38.1	1.65×1.65
3"-1"	76.2×25.4	273.1	225.4	47.6	1.65×1.65
3"-1 1/2"	76.2×38.1	273.1	225.4	47.6	1.65×1.65
3"-2"	76.2×50.8	273.1	225.4	47.6	1.65×1.65
3"-2 1/2"	76.2×63.5	273.1	225.4	47.6	1.65×1.65
4"-1"	101.6×25.4	325.5	273.1	52.4	2.1×1.65
4"-1 1/2"	101.6×38.1	325.5	273.1	52.4	2.1×1.65
4"-2"	101.6×50.8	274.7	273.1	52.4	2.1×1.65
4"-2 1/2"	101.6×63.5	325.5	273.1	52.4	2.1×1.65
4"-3"	101.6×76.2	325.5	273.1	52.4	2.1×1.65

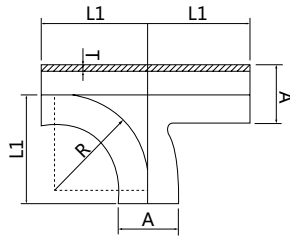
3A



JOF-TEYH01-11

Butt Weld Y-Type Tee

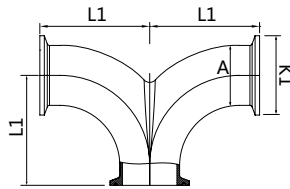
Size	A	L1	T
1/2"	12.7	50.8	1.65
3/4"	19.05	50.8	1.65
1"	25.4	76.2	1.65
1 1/2"	38.1	76.2	1.65
2"	50.8	101.6	1.65
2 1/2"	63.5	127	1.65
3"	76.2	152.4	1.65
4"	101.6	203.2	2.1
6"	152.4	203.2	2.8



JOF-TEYH04-11

Butt Weld R-Type Tee

Size	A	R	L1	T
1"	25.4	38.1	65	1.65
1 1/2"	38.1	57.2	85	1.65
2"	50.8	76.2	110	1.65
2 1/2"	63.5	95.3	135	1.65
3"	76.2	114.3	155	1.65
4"	101.6	152.4	195	2.1

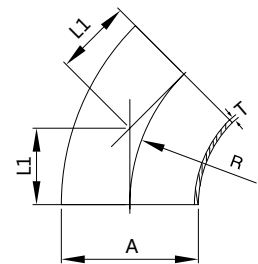


JOF-TEYH02-22

90° Clamp Double Elbow

Size	A	K1	L1
1"	25.4	50.5	50.8
1 1/4"	31.75	50.5	69.85
1 1/2"	38.1	50.5	60.4
2"	50.8	64	88.9
2 1/2"	63.5	77.5	107.9
3"	76.2	91	127
4"	101.6	119	168.4

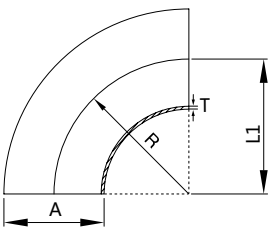
ISO / IDF



JOF-ISEBH45S-11

45° Welded Elbow

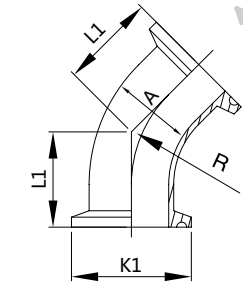
Size	A	R	L1	T
1"	25.4	33.5	13.9	1.2/1.5
1 1/4"	32	38	15.7	1.2/1.5
1 1/2"	38.1	48.5	20.1	1.2/1.5
2"	50.8	60.5	25.1	1.2/1.5
2 1/2"	63.5	83.5	34.6	2
3"	76.2	88.5	36.7	2
3 1/2"	89	103.5	42.9	2
4"	101.6	127	52.1	2



JOF-ISEBH90S-11

90° Welded Elbow

Size	A	R	L1	T
1"	25.4	33.5	33.5	1.2/1.5
1 1/4"	32	38	38	1.2/1.5
1 1/2"	38.1	48.5	48.5	1.2/1.5
2"	50.8	60.5	60.5	1.2/1.5
2 1/2"	63.5	83.5	83.5	2
3"	76.2	88.5	88.5	2
3 1/2"	89	103.5	103.5	2
4"	101.6	127	127	2
4 1/2"	114.3	152.4	152.4	2
5"	127	190.5	190.5	2.77
6"	152.4	228.6	228.6	2.77

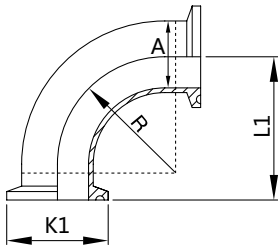


JOF-ISEBH45-22

45° Clamped Elbow

Size	A	R	L1	K1
1"	25.4	33.5	35.4	50.5
1 1/4"	31.8	38	37.2	50.5
1 1/2"	38.1	48.5	41.6	50.5
2"	50.8	60.5	46.6	64
2 1/2"	63.5	83.5	56.1	77.5
3"	76.2	88.5	58.2	91
3 1/2"	89	103.5	64.4	106
4"	101.6	127	72.3	119

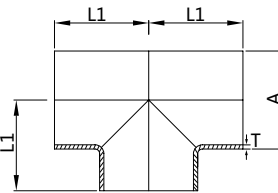
ISO / IDF



JOF-ISEBH90S-22

90° Clamped Elbow

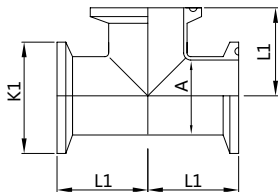
Size	A	R	L1	K1
1"	25.4	33.5	55	50.5
1 1/4"	31.8	38	59.5	50.5
1 1/2"	38.1	48.5	70	50.5
2"	50.8	60.5	82	64
2 1/2"	63.5	83.5	105	77.5
3"	76.2	88.5	110	91
3 1/2"	89	103.5	125	106
4"	101.6	127	148.5	119



JOF-ISTEHE-11

Welded Tee

Size	A	L1	T
1"	25.4	33.5	1.2/1.5
1 1/4"	31.8	38.1	1.2/1.5
1 1/2"	38.1	48.5	1.2/1.5
2"	50.8	60.5	1.2/1.5
2 1/2"	63.5	83.5	2
3"	76.2	88.5	2
3 1/2"	88.9	103.5	2
4"	101.6	127	2

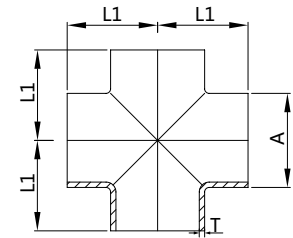


JOF-ISTEHE-22

Clamped Tee

Size	A	L1	K1
1"	25.4	55	50.5
1 1/4"	31.8	59.5	50.5
1 1/2"	38.1	70	50.5
2"	50.8	82	64
2 1/2"	63.5	104.5	77.5
3"	76.2	109.5	91
3 1/2"	89	124.5	106
4"	101.6	148.5	119

ISO / IDF



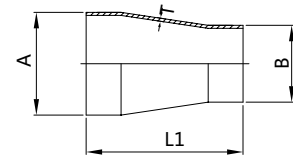
JOF-ISCRSHE-11

Welded Cross

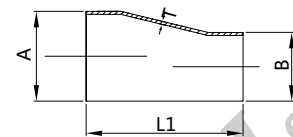
Size	A	L1	T
1"	25.4	33.5	1.2/1.5
1 1/4"	32	38	1.2/1.5
1 1/2"	38	48.5	1.2/1.5
2"	51	60.5	1.2/1.5
2 1/2"	63.5	83.5	2
3"	76.2	88.5	2
3 1/2"	89	103.5	2
4"	101.6	127	2

Welded Reducer

Size	A×B	L1	T
1"-3/4"	25.4×19	38	1.2/1.5×1.2/1.5
1 1/4"-1"	31.8×25.4	50	1.2/1.5×1.2/1.5
1 1/2"-1"	38.1×25.4	50	1.2/1.5×1.2/1.5
1 1/2"-1 1/4"	38.1×31.8	50	1.2/1.5×1.2/1.5
2"-1"	50.8×25.4	67	1.2/1.5×1.2/1.5
2"-1 1/4"	50.8×31.8	67	1.2/1.5×1.2/1.5
2"-1 1/2"	50.8×38.1	67	1.2/1.5×1.2/1.5
2 1/2"-1"	63.5×25.4	67	2×1.2/1.5
2 1/2"-1 1/2"	63.5×38.1	67	2×1.2/1.5
2 1/2"-2"	63.5×50.8	67	2×1.2/1.5
3"-1 1/2"	76.2×38.1	67	2×1.2/1.5
3"-2"	76.2×50.8	67	2×1.2/1.5
3"-2 1/2"	76.2×63.5	67	2×2
3 1/2"-2"	88.9×50.8	67	2×1.2/1.5
3 1/2"-2 1/2"	88.9×63.5	67	2×2
3 1/2"-3"	88.9×76.2	67	2×2
4"-2"	101.6×50.8	102	2×1.2/1.5
4"-2 1/2"	101.6×63.5	102	2×2
4"-3"	101.6×76.2	102	2×2
4"-3 1/2"	101.6×88.9	102	2×2

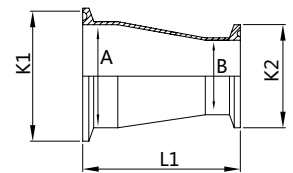


JOF-ISOCORD-11

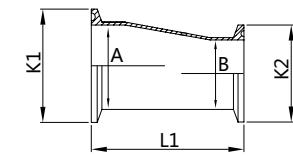


JOF-ISOECD-11

ISO / IDF



JOF-ISOCORD-22

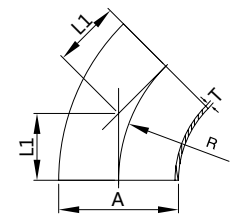


JOF-ISOECD-22

Clamped Reducer

Size	A×B	K1×K2	L1
1"×3/4"	25.4×19	50.5×34	80
1 1/4"×1"	31.8×25.4	50.5×50.5	92
1 1/2"×1 1/4"	38.1×31.8	50.5×50.5	92
1 1/2"×1"	38.1×25.4	50.5×50.5	92
2"×1 1/2"	50.8×38.1	64×50.5	109
2"×1 1/4"	50.8×31.8	64×50.5	109
2"×1"	50.8×25.4	64×50.5	109
2 1/2"×2"	63.5×50.8	77.5×64	109
2 1/2"×1 1/2"	63.5×38.1	77.5×50.5	109
2 1/2"×1"	63.5×25.4	77.5×50.5	109
3"×2 1/2"	76.2×63.5	91×77.5	109
3"×2"	76.2×50.8	91×64	109
3"×1 1/2"	76.2×38.1	91×50.5	109
3 1/2"×3"	89×76.2	106×91	109
3 1/2"×2 1/2"	89×63.5	106×77.5	109
3 1/2"×2"	89×50.8	106×64	109
4"×3 1/2"	101.6×89	119×106	145
4"×3"	101.6×76.2	119×91	145
4"×2 1/2"	101.6×63.5	119×77.5	145
4"×2"	101.6×50.8	119×64	145

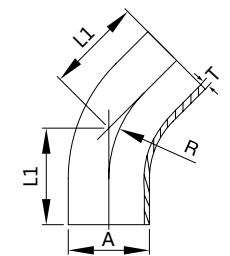
BS4825



JOF-BS45S-11

45° Short Welded Elbow

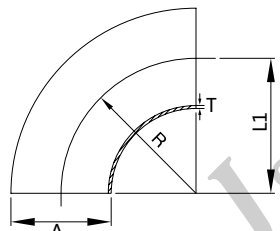
Size	A	R	L1	T
1"	25.4	38.1	15.8	1.65
1 1/2"	38.1	57.2	23.7	1.65
2"	50.8	76.2	31.8	1.65
2 1/2"	63.5	95.3	39.6	1.65
3"	76.2	114.3	47.5	1.65
4"	101.6	152.4	63.2	2.11



JOF-BS45L-11

45° Long Welded Elbow

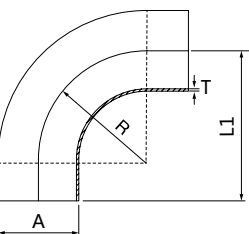
Size	A	R	L1	T
1"	25.4	38.1	30.2	1.65
1 1/2"	38.1	57.2	41.3	1.65
2"	50.8	76.2	58.7	1.65
2 1/2"	63.5	95.3	76.2	1.65
3"	76.2	114.3	93.7	1.65
4"	101.6	152.4	122.2	2.11



JOF-BS90S-11

90° Welded Elbow

Size	A	R	L1	T
1"	25.4	38.1	43.5	1.65
1 1/4"	31.8	47.7	53.5	1.65
1 1/2"	38.1	57.2	63.5	1.65
2"	50.8	76.2	88.5	1.65
2 1/2"	63.5	95.3	113.5	1.65
3"	76.2	114.3	133.5	1.65
4"	101.6	152.4	173.5	2.11

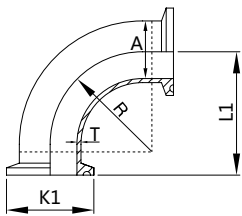


JOF-BS90L-11

90° Long Welded Elbow

Size	A	R	L1	T
1/2"	12.7	19	45	1.65
3/4"	19	28.58	60	1.65
1"	25.4	38.1	65	1.65
1 1/4"	31.8	47.7	75	1.65
1 1/2"	38.1	57.2	85	1.65
2"	50.8	76.2	110	1.65
2 1/2"	63.5	95.3	135	1.65
3"	76.2	114.3	155	1.65
4"	101.6	152.4	195	12.11

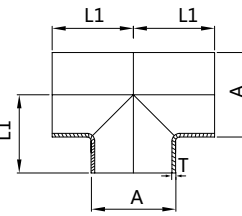
BS4825



JOF-BS90-22

90° Clamped Elbow

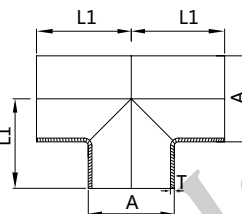
Size	A	R	L1	K1	T
1"	25.4	38.1	65	50.5	1.65
1 1/2"	38.1	57.2	85	50.5	1.65
2"	50.8	76.2	110	64	1.65
2 1/2"	63.5	95.3	135	77.5	1.65
3"	76.2	114.3	155	91	1.65
4"	101.6	152.4	195	119	2.11



JOF-BSTEES-11

Short Welded Tee

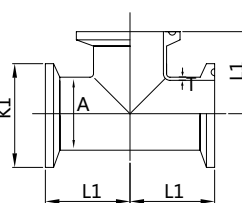
Size	A	L1	T
1"	25.4	43.5	1.65
1 1/4"	31.8	53.5	1.65
1 1/2"	38.1	63.5	1.65
2"	50.8	88.5	1.65
2 1/2"	63.5	113.5	1.65
3"	76.2	133.5	1.65
4"	101.6	173.5	2.11



JOF-BSTEEL1-11

Long Welded Tee

Size	A	L1	T
1"	25.4	65	1.65
1 1/2"	38.1	85	1.65
2"	50.8	110	1.65
2 1/2"	63.5	135	1.65
3"	76.2	155	1.65
4"	101.6	195	2.11

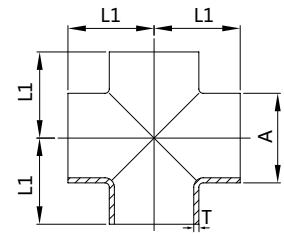


JOF-BSTEE-22JOF

Clamped Tee

Size	A	L1	K1	T
1/2"	12.7	57.2	25.4	1.65
3/4"	19	60.3	25.4	1.65
1"	25.4	66.7	50.5	1.65
1 1/2"	38.1	73	50.5	1.65
2"	50.8	85.7	64	1.65
2 1/2"	63.5	92.1	77.5	1.65
3"	76.2	98.4	91	1.65
4"	101.6	120.7	119	2.11

BS4825



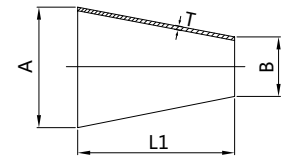
JOF-BSCRSHE-11

Welded Cross

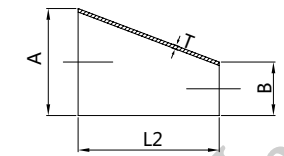
Size	A	L1	T
1"	25.4	65	1.65
1 1/2"	38.1	85	1.65
2"	50.8	110	1.65
2 1/2"	63.5	135	1.65
3"	76.2	155	1.65
4"	101.6	195	2.11

Concentric / Eccentric Reducer

Size	A×B	L1	L2	T
1.5"-1"	38.1×25.4	29	35	1.6
2"-1"	50.8×25.4	53	54	1.6
2"-1.5"	50.8×38.1	41	36	1.6
2.5"-1"	63.5×25.4	82	76	1.6
2.5"-1.5"	63.5×38.1	64	66	1.6
2.5"-2"	63.5×50.8	40	35	1.6
3"-1"	76.2×25.4	110	112	1.6
3"-1.5"	76.2×38.1	81	38.1	1.6
3"-2"	76.2×50.8	55	50.8	1.6
3"-2.5"	76.2×63.5	41	63.5	1.6
4"-1.5"	101.6×38.1	135	38.1	2
4"-2"	101.6×50.8	106	50.8	2
4"-2.5"	101.6×63.5	76	63.5	2
4"-3"	101.6×76.2	53	76.2	2

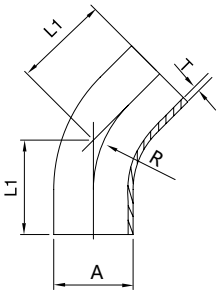


JOF-CORD-BS-11



JOF-ECRD-BS-11

AS



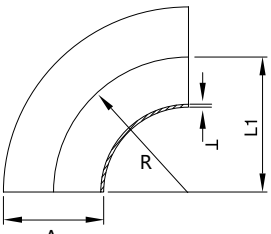
JOF-AS45L-11

45° Long Welded Elbow

Size	A	R	L1	T
1/2"	12.7	19.05	37.9	1.6
3/4"	19.1	28.6	41.8	1.6
1"	25.4	38.1	45.8	1.6
1 1/4"	31.8	47.7	49.7	1.6
1 1/2"	38.1	57.2	53.7	1.6
2"	50.8	76.2	61.6	1.6
2 1/2"	63.5	95.3	69.5	1.6
3"	76.2	114.3	77.3	1.6
4"	101.6	152.4	92.8	2

90° Welded Elbow

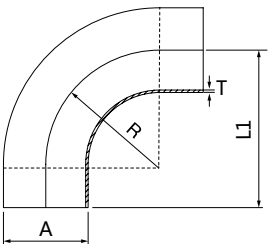
Size	A	R	L1	T
1/2"	12.7	19.05	19.1	1.6
3/4"	19.1	28.6	28.6	1.6
1"	25.4	38.1	38.1	1.6
1 1/4"	31.8	47.7	47.7	1.6
1 1/2"	38.1	57.2	57	1.6
2"	50.8	76.2	76.2	1.6
2 1/2"	63.5	95	95	1.6
3"	76.2	114.3	114.2	1.6
4"	101.6	152.4	152.4	2



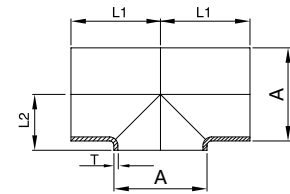
JOF-AS90S-11

90° Long Welded Elbow

Size	A	R	L1	T
1/2"	12.7	19.05	49.1	1.6
3/4"	19.1	28.6	58.6	1.6
1"	25.4	38.1	68.1	1.6
1 1/4"	31.8	47.7	77.7	1.6
1 1/2"	38.1	57.2	87	1.6
2"	50.8	76.2	106.2	1.6
2 1/2"	63.5	95	125	1.6
3"	76.2	114.3	144.2	1.6
4"	101.6	152.4	182.4	2



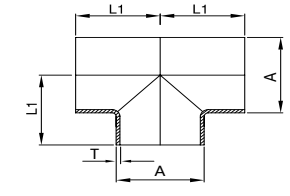
JOF-AS90L-11



JOF-ASTEHS-11

Short Welded Tee

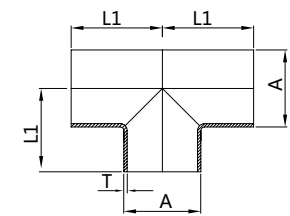
Size	A	L1	L2	T
1/2"	12.7	19.1	9.35	1.6
3/4"	19.1	28.6	12.55	1.6
1"	25.4	38.1	15.7	1.6
1 1/4"	31.8	47.7	18.9	1.6
1 1/2"	38.1	57	22.05	1.6
2"	50.8	76.2	28.4	1.6
2 1/2"	63.5	95	34.75	1.6
3"	76.2	114.2	41.1	1.6
4"	101.6	152.4	53.8	2



JOF-ASTEHS-11

Welded Tee

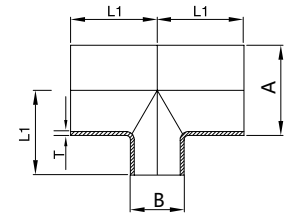
Size	A	L1	T
1/2"	12.7	19.1	1.6
3/4"	19.1	28.6	1.6
1"	25.4	38.1	1.6
1 1/4"	31.8	47.7	1.6
1 1/2"	38.1	57	1.6
2"	50.8	76.2	1.6
2 1/2"	63.5	95	1.6
3"	76.2	114.2	1.6
4"	101.6	152.4	2



JOF-ASTEHEL-11

Long Welded Tee

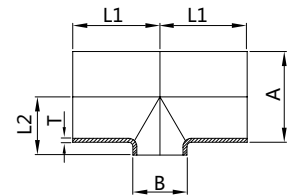
Size	A	L1	T
1/2"	12.7	49.1	1.6
3/4"	19.1	58.6	1.6
1"	25.4	68.1	1.6
1 1/4"	31.8	77.7	1.6
1 1/2"	38.1	87	1.6
2"	50.8	106.2	1.6
2 1/2"	63.5	125	1.6
3"	76.2	144.2	1.6
4"	101.6	182.4	2



JOF-ASTEHR-11

Reducing Welded Tee

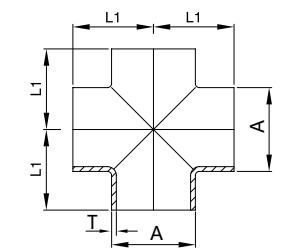
Size	A×B	L1	T
1 1/2"- 1"	38.1×25.4	80	1.6
2"- 1"	50.8×25.4	80	1.6
2"-1 1/2"	50.8×38.1	80	1.6
2 1/2"-1 1/2"	63.5×38.1	80	1.6
2 1/2"- 2"	63.5×50.8	80	1.6
3"-1 1/2"	76.2×38.1	80	1.6
3"-2"	76.2×50.8	80	1.6
3"-2 1/2"	76.2×63.5	80	1.6
4"-2"	101.6×50.8	80	1.6
4"-2 1/2"	101.6×63.5	80	1.6
4"-3"	101.6×76.2	80	2



JOF-ASTEHSRE-11

Short Reducing Welded Tee

Size	A×B	L1	L2	T
1 1/2"- 1"	38.1×25.4	80	22.05	1.6
2"- 1"	50.8×25.4	80	28.4	1.6
2"-1 1/2"	50.8×38.1	80	28.4	1.6
2 1/2"-1 1/2"	63.5×38.1	80	34.75	1.6
2 1/2"- 2"	63.5×50.8	80	34.75	1.6
3"-1 1/2"	76.2×38.1	80	41.1	1.6
3"-2"	76.2×50.8	80	41.1	1.6
3"-2 1/2"	76.2×63.5	80	41.1	1.6
4"-2"	101.6×50.8	80	53.8	1.6
4"-2 1/2"	101.6×63.5	80	53.8	1.6
4"-3"	101.6×76.2	80	53.8	2

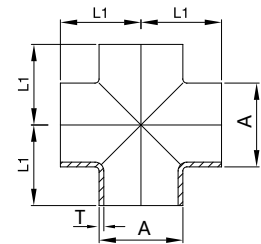


JOF-ASCRSHE-11

Welded Cross

Size	A	L1	T
1/2"	12.7	19.1	1.6
3/4"	19.1	28.6	1.6
1"	25.4	38.1	1.6
1 1/4"	31.8	47.7	1.6
1 1/2"	38.1	57	1.6
2"	50.8	76.2	1.6
2 1/2"	63.5	95	1.6
3"	76.2	114.2	1.6
4"	101.6	152.4	2

AS



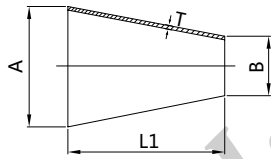
JOF-ASCRSEL-11

Long Welded Cross

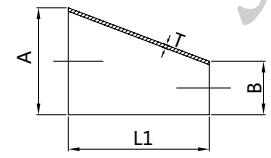
Size	A	L1	T
1/2"	12.7	49.1	1.6
3/4"	19.1	58.6	1.6
1"	25.4	68.1	1.6
1 1/4"	31.8	77.7	1.6
1 1/2"	38.1	87	1.6
2"	50.8	106.2	1.6
2 1/2"	63.5	125	1.6
3"	76.2	144.2	1.6
4"	101.6	182.4	2

Welded Reducer

Size	A×B	L1	T
3/4" - 1/2"	19.1×12.7	19.1	1.6
1" - 1/2"	25.4×12.7	25.4	1.6
1" - 3/4"	25.4×19.1	25.4	1.6
1 1/4" - 3/4"	31.8×19.1	31.8	1.6
1 1/4" - 1"	31.8×25.4	31.8	1.6
1 1/2" - 3/4"	38.1×19.1	38.1	1.6
1 1/2" - 1"	38.1×25.4	38.1	1.6
2" - 1/2"	50.8×12.7	50.8	1.6
2" - 3/4"	50.8×19.1	50.8	1.6
2" - 1"	50.8×25.4	50.8	1.6
2" - 1 1/4"	50.8×31.8	50.8	1.6
2" - 1 1/2"	50.8×38.1	50.8	1.6
2 1/2" - 1"	63.5×25.4	63.5	1.6
2 1/2" - 1 1/4"	63.5×31.8	63.5	1.6
2 1/2" - 1 1/2"	63.5×38.1	63.5	1.6
2 1/2" - 2"	63.5×50.8	63.5	1.6
3" - 1"	76.2×25.4	76.2	1.6
3" - 1 1/4"	76.2×31.8	76.2	1.6
3" - 1 1/2"	76.2×38.1	76.2	1.6
3" - 2"	76.2×50.8	76.2	1.6
3" - 2 1/2"	76.2×63.5	76.2	1.6
4" - 1"	101.6×25.4	101.6	2
4" - 1 1/4"	101.6×31.8	101.6	2
4" - 1 1/2"	101.6×38.1	101.6	2
4" - 2"	101.6×50.8	101.6	2
4" - 2 1/2"	101.6×63.5	101.6	2
4" - 3"	101.6×76.2	101.6	2

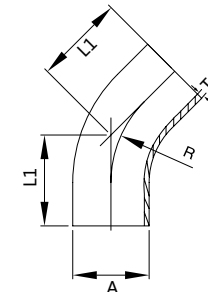


JOF-ASCORD-11



JOF-ASECRD-11

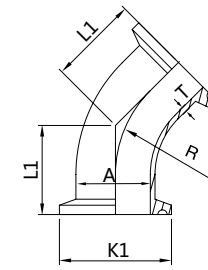
BPE



JOF-BPE45L-11

45° Long Welded Elbow

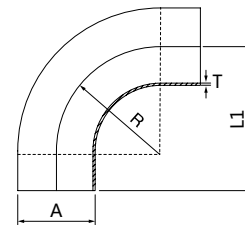
Size	A	R	L1	T
1/2"	12.7	19.1	57.2	1.65
3/4"	19.05	28.6	57.2	1.65
1"	25.4	38.1	57.2	1.65
1 1/2"	38.1	57.2	63.5	1.65
2"	50.8	76.2	76.2	1.65
2 1/2"	63.5	95.3	85.7	1.65
3"	76.2	114.3	92.1	1.65
4"	101.6	152.4	114.3	2.11
6"	152.4	288.6	158.8	2.77



JOF-BPE45-22

45° Clamped Elbow

Size	A	R	L1	K1	T
1/2"	12.7	19.1	25.4	25.4	1.65
3/4"	19	28.6	25.4	25.4	1.65
1"	25.4	38.1	28.6	50.5	1.65
1 1/2"	38.1	57.2	36.5	50.5	1.65
2"	50.8	76.2	44.5	64	1.65
2 1/2"	63.5	95.3	52.4	77.5	1.65
3"	76.2	114.3	60.3	91	1.65
4"	101.6	152.4	79.4	119	2.11
6"	152.4	288.6	133.4	166.8	2.77

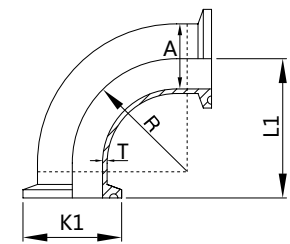


JOF-90ELBPE-11

90° Welded Elbow

Size	A	R	L1	T
1/2"	12.7	19.1	76.2	1.65
3/4"	19.05	28.6	76.2	1.65
1"	25.4	38.1	76.2	1.65
1 1/2"	38.1	57.2	95.3	1.65
2"	50.8	76.2	120.7	1.65
2 1/2"	63.5	95.3	139.7	1.65
3"	76.2	114.3	158.8	1.65
4"	101.6	152.4	203.2	2.11
6"	152.4	228.6	292	2.77

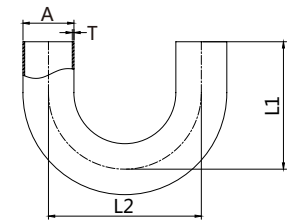
BPE



JOF-90ELBPE-22

90° Clamped Elbow

Size	A	R	L1	K1	T
1/2"	12.7	19	41.3	25.4	1.65
3/4"	19	28.6	41.3	25.4	1.65
1"	25.4	38.1	50.8	50.5	1.65
1 1/2"	38.1	57.2	69.9	50.5	1.65
2"	50.8	76.2	88.9	64	1.65
2 1/2"	63.5	95.3	108	77.5	1.65
3"	76.2	114.3	127	91	1.65
4"	101.6	152.4	168.3	119	2.11
6"	152.4	228.6	266.7	166.8	2.77

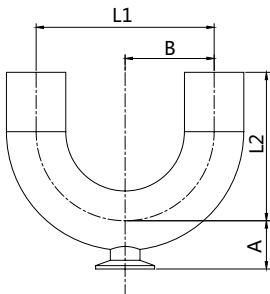


JOF-180ELBPE-11

180° Welded Elbow

Size	A	L1	L2	T
1/2"	12.7	88.9	38.1	1.65
3/4"	19.05	88.9	57.2	1.65
1"	25.4	88.9	76.2	1.65
1 1/2"	38.1	127	114.3	1.65
2"	50.8	127	152.4	1.65
2 1/2"	63.5	146.1	190.5	1.65
3"	76.2	165.1	228.6	1.65
4"	101.6	215.9	304.8	2.1

BPE

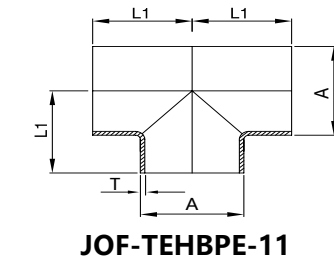


JOF-180ELREBPE-12

180° Welded / Clamped Elbow

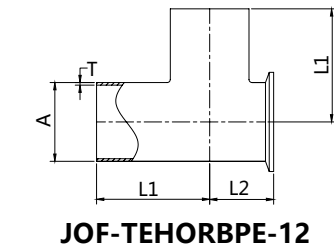
Size	A	B	L1	L2
3/4"×1/2"	25.4	57.15	57.2	95.25
1"×1/2"	25.58	57.15	76.2	95.25
1"×3/4"	25.58	57.15	76.2	95.25
1 1/2"×1/2"	34.93	76.2	114.3	114.3
1 1/2"×3/4"	34.93	76.2	114.3	114.3
1 1/2"×1"	34.93	76.2	114.3	114.3
2"×1/2"	41.28	76.2	152.4	127
2"×3/4"	41.28	76.2	152.4	127
2"×1"	41.28	76.2	152.4	127
2"×1 1/2"	41.28	76.2	152.4	127
2 1/2"×1/2"	47.63	95.25	190.5	146.05
2 1/2"×3/4"	47.63	95.25	190.5	146.05
2 1/2"×1"	47.63	95.25	190.5	146.05
2 1/2"×1 1/2"	47.63	95.25	190.5	146.05
2 1/2"×2"	47.63	95.25	190.5	146.05
3"×1/2"	53.98	114.3	228.6	165.1
3"×3/4"	53.98	114.3	228.6	165.1
3"×1"	53.98	114.3	228.6	165.1
3"×1 1/2"	53.98	114.3	228.6	165.1
3"×2"	53.95	114.3	228.6	165.1
3"×2 1/2"	53.95	114.3	228.6	165.1
4"×1/2"	66.68	152.4	304.8	215.9
4"×3/4"	66.68	152.4	304.8	215.9
4"×1"	66.68	152.4	304.8	215.9
4"×1 1/2"	66.68	152.4	304.8	215.9
4"×2"	66.68	152.4	304.8	215.9
4"×2 1/2"	66.68	152.4	304.8	215.9
4"×3"	66.68	152.4	304.8	215.9

BPE



Welded Tee

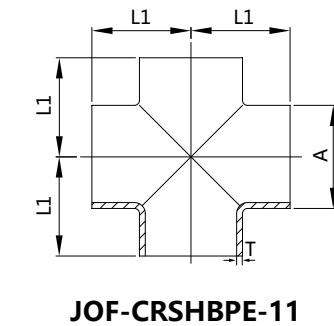
Size	A	L1	T
1/2"	12.7	47.6	1.65
3/4"	19.05	50.8	1.65
1"	25.4	54	1.65
1 1/2"	38.1	60.3	1.65
2"	50.8	73	1.65
2 1/2"	63.5	79.4	1.65
3"	76.2	85.7	1.65
4"	101.6	104.8	2.1



Short Outlet Run Tee (Weld / Weld / Clamp)

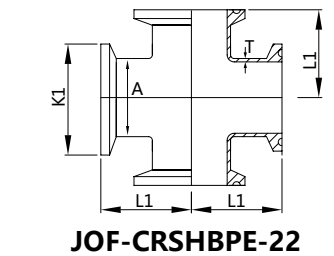
Size	A	L1	L2	T
1/2"	12.7	47.6	22.2	1.65
3/4"	19.05	50.8	19.05	1.65
1"	25.4	54	25.4	1.65
1 1/2"	38.1	60.3	38.1	1.65
2"	50.8	73	50.8	1.65
2 1/2"	63.5	79.4	63.5	1.65
3"	76.2	85.7	76.2	1.65
4"	101.6	104.8	101.6	2.1

Welded Cross



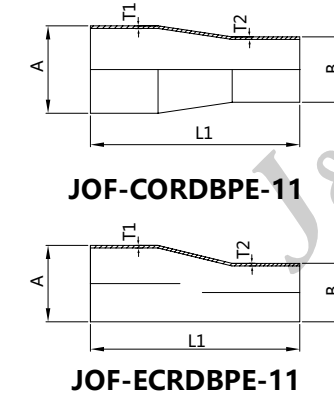
Size	A	L1	T
1/2"	12.7	47.6	1.65
3/4"	19.05	50.8	1.65
1"	25.4	54	1.65
1 1/2"	38.1	60.3	1.65
2"	50.8	73	1.65
2 1/2"	63.5	79.4	1.65
3"	76.2	85.7	1.65
4"	101.6	104.8	2.11
6"	152.4	142.9	2.77

BPE



Clamped Cross

Size	A	L1	K1	T
1/2"	12.7	57.2	25.4	1.65
3/4"	19	60.3	25.4	1.65
1"	25.4	66.7	50.5	1.65
1 1/2"	38.1	73	50.5	1.65
2"	50.8	85.7	64	1.65
2 1/2"	63.5	92.1	77.5	1.65
3"	76.2	98.4	91	1.65
4"	101.6	120.7	119	2.11
6"	152.4	181	166.8	2.77



Welded Concentric Reducer

Size	A×B	L1	T1 ×T2
3/4"-1/2"	19.05×12.7	101.6	1.65×1.65
1"-1/2"	25.4×12.7	114.3	1.65×1.65
1"-3/4"	25.4×19.05	114.3	1.65×1.65
1 1/2"-1/2"	38.1×12.7	139.7	1.65×1.65
1 1/2"-3/4"	38.1×19.05	127	1.65×1.65
1 1/2"-1"	38.1×25.4	127	1.65×1.65
2"-1/2"	50.8×12.7	196.9	1.65×1.65
2"-3/4"	50.8×19.05	184.2	1.65×1.65
2"-1"	50.8×25.4	184.2	1.65×1.65
2"-1 1/2"	50.8×38.1	133.4	1.65×1.65
2 1/2"-1/2"	63.5×12.7	247.7	1.65×1.65
2 1/2"-3/4"	63.5×19.05	235	1.65×1.65
2 1/2"-1"	63.5×25.4	235	1.65×1.65
2 1/2"-1 1/2"	63.5×38.1	184.2	1.65×1.65
2 1/2"-2"	63.5×50.8	139.7	1.65×1.65
3"-1"	76.2×25.4	285.8	1.65×1.65
3"-1 1/2"	76.2×38.1	235	1.65×1.65
3"-2"	76.2×50.8	190.5	1.65×1.65
3"-2 1/2"	76.2×63.5	139.7	1.65×1.65
4"-1"	76.2×25.4	393.7	1.65×1.65
4"-1 1/2"	76.2×38.1	342.9	1.65×1.65
4"-2"	101.6×50.8	298.5	2.11×1.65
4"-2 1/2"	101.6×63.5	247.7	2.11×1.65
4"-3"	101.6×76.2	196.9	2.11×1.65
6"-4"	152.4×101.6	254	2.8×2.11