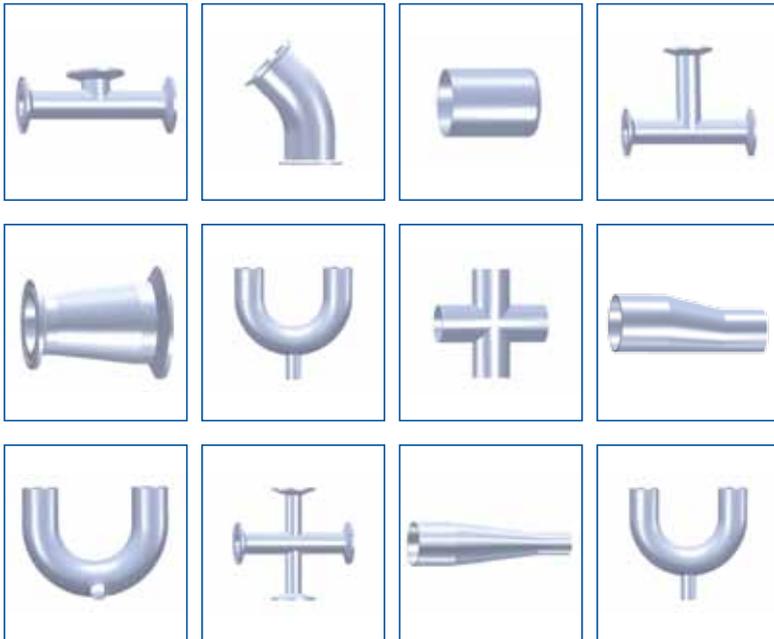




Gillain & Co
HYGIENIC EQUIPMENT FOR FOOD & LIFE SCIENCES

EN

ASME BPE - Tubes and Fittings



Mastering Purity

More than a century of experience in high and ultra-high purity industries



HYGIENIC EQUIPMENT FOR FOOD & LIFE SCIENCES

Gillain & Co is a leading supplier to all companies in need of high or ultra-high purity.

- End-users (pharmaceutical, food, biotechnology, semiconductor, ...)
- OEM (Original Equipment Manufacturers)
- Piping and Installations Companies
- Engineering Contractors
- Maintenance, Repair and Overhaul Companies

"Hygienic Equipment" means all equipment, components, assemblies and systems.

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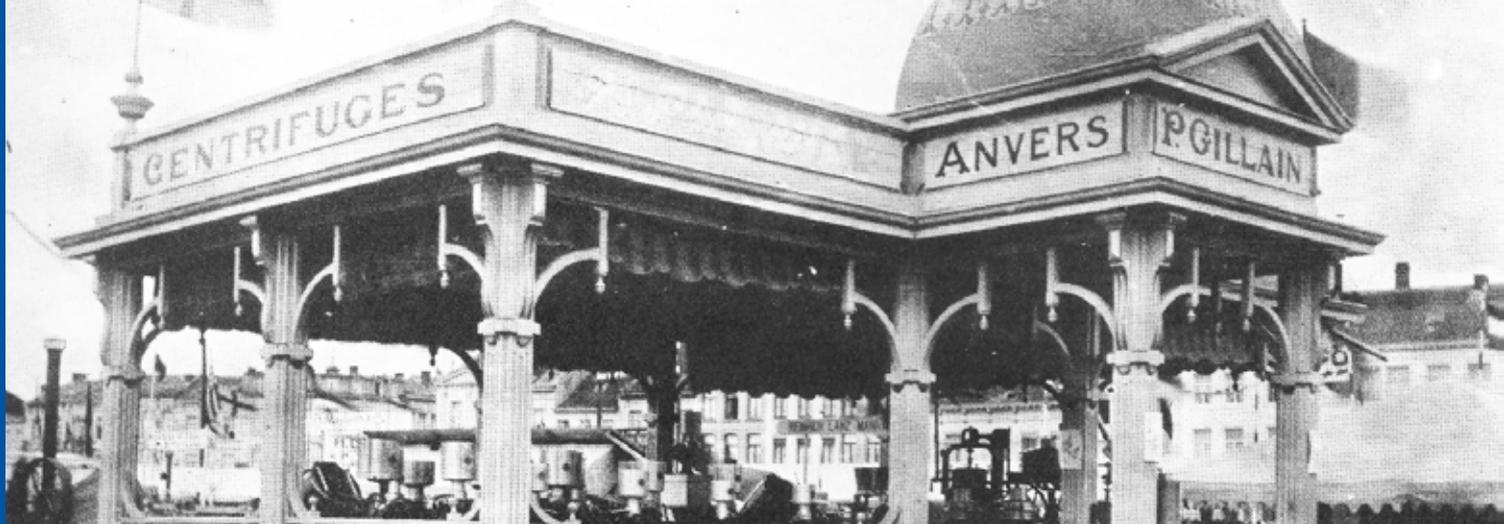


A Complete ASME BPE Product Range for the Life Sciences Industry



Gillain & Co
HYGIENIC EQUIPMENT FOR FOOD & LIFE SCIENCES

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Gillain & Co, 135 years of trust and expertise



1875

Paul Gillain, originally from Dinant, settles in Antwerp as a trader. He mainly imports linseed press cakes and cattle feed.

1885 - 1887

He launches his own patented cream separator and introduces the "Alfa Laval" centrifugal cream separator in Belgium.

1913 - 1918

Paul Gillain founds a factory of woodworking machines and gas engines. This is established in Kontich from 1914. At the outbreak of WW I his excellent equipment is seized. After the war he focuses on importing equipment for the dairy sector, agricultural equipment and woodworking machines.

1924 - 1952

René Gillain succeeds his father Paul in 1924. Gillain & Co open branches in Eisden and Luxembourg (city) in addition to the registered office in Antwerp. Joseph and Fernand Gillain take over the management in 1952. The increasing use of stainless steel for the production of hygienic equipment forms the basis of considerable expansion. The "Brewery", "Industry" and "Pharmaceuticals" divisions are formed.

1971 - 2001

Gillain & Co moves to a brand new building in Aartselaar in 1971. From 1977 Guy and Patrick Gillain (4th generation) actively work in the fast-growing family business.

1986 – The storage places for stainless steel pipes are extended significantly.

From 1987 Gillain & Co completes major turnkey projects worldwide.

1990 - Guy Gillain takes the lead and further develops the specialisation in designing, assembling and supplying hygienic installations.

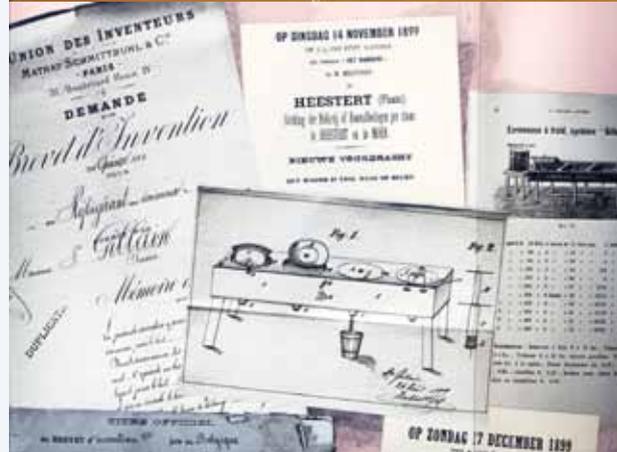
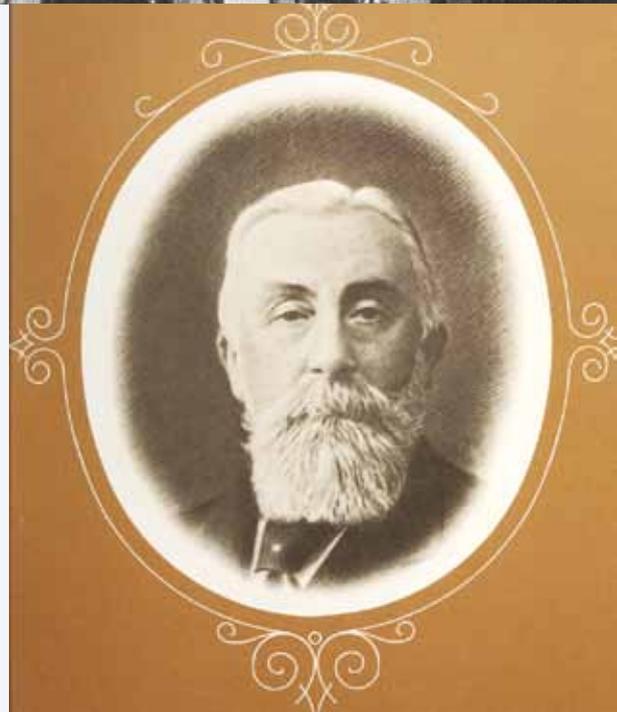
2001 – Takeover of the "Systems and projects" division by Fabricom GDF SUEZ. Gillain & Co remains autonomous and becomes a highly specialised supplier of components and equipment for the food and life sciences sectors from then on.

2001 - present

2007 - Gillain & Co is again the exclusive distributor of Alfa Laval (food and pharmaceuticals) in Belgium.

2008 – The warehouse is expanded greatly and is fully automated.

Customers can be served better and faster and full traceability of the components is guaranteed. With its extensive knowledge of hygienic processes and an unlimited range, Gillain & Co has been the partner par excellence for over 135 years for businesses who want to produce safely and cost efficiently.





Gillain & Co

HYGIENIC EQUIPMENT FOR FOOD & LIFE SCIENCES

Hygiene - our second nature

Gillain & Co is a specialist supplier of hygienic equipment and components for the food and life sciences industries. Gillain & Co offers safe and certified materials that are essential to these very demanding markets and complex production processes. We always listen to the customers' specific needs and, thanks to our expertise, we are able to propose winning solutions.

We stay tuned

The secret of Gillain & Co's success lies in continuously monitoring global market developments and latest technologies and adapting our product assortment if we see that this would be of benefit to our customers. This approach ensures that **our customers receive a greater degree of quality and safety, thus improving their cost efficiency.**

135 years of trust and expertise

Over more than a century, Gillain & Co has built a reputation for credibility, trust and expertise in the high and ultra-high purity markets. We are the preferential supplier of an extended number of large companies in the following markets:

- Chemicals, pharmaceuticals and cosmetics
- Fine chemicals and biotechnology
- Pure gases and micro-electronics
- Food and dairy products
- Breweries and beverage producers

Enhanced product offer

Gillain & Co supplies hygienic equipment and stainless steel components that fit each step of the production cycle:

- **Flow equipment**
Pipeline components, fittings. Tubes for transporting liquids or gases.
- **Process equipment**
Process components for the treatment of liquids or gases.
- **Pre-engineered solutions**
- **Spare parts**

ASME BPE (Bio Processing Equipment) Specifications

ASME BPE 2007

Design requirements: automatic welding, ovality, wall thickness, squareness.

Traceability (indelibly marked): heat number, size, grade, surface finish, material, job number.

Test reports available.

Packaging: color-coded end caps, transparent plastic bag, detailed label.

Acceptance Criteria for Interior Surface Finishes

ANOMALY OR INDICATION	ACCEPTANCE CRITERIA
Cluster of pits	None accepted.
Discoloration (demarcation)	If < 5% of the total area when visually inspected and Ra is met.
Grit lines	If Ra is met.
Longitudinal welds	If polished smooth, blended, and Ra is met.
Nicks	None accepted.
Oxides	None accepted.
Pits	If dia. < 0.020" and bottom is shiny.
Scratches	If length < 0.25", depth < 0.003" and Ra is met.
Star burst	None accepted.
Surface cracks	None accepted.
Surface inclusions	If Ra is met and there is no liquid penetrant indication.
Surface residuals	None accepted. Visual inspection without magnification.
Surface roughness (Ra)	See table Surface Finishes
Water stains	If no deposits.
Weld slag	None accepted.
Weld porosity	None accepted.

Ra readings (Surface Roughness)

Ra readings are measured according to the standard methods. Other Ra readings are available if agreed upon. For more information, please contact us at +32 (0)3 870 60 80 or send an e-mail to advice@gillain.com

Surface Finishes

Polish Combination Code	INTERNAL SURFACE (ID)		Surface Finish	EXTERNAL SURFACE (OD)		ASME BPE indication de l'état de surface	
	Max. Surface Roughness			Max. Surface Roughness			
	μ-in	μ-m	μ-in	μ-m			
3/PC	20	0.5	Mechanical Polish			Unpolished	SF1
7/PL	20	0.5	Mechanical Polish	32	0.8	Mechanical Polish	SF1
3/PD	15	0.375	Mechanical Polish & Electropolish			Unpolished	SF4
7/PM	15	0.375	Mechanical Polish & Electropolish	32	0.8	Mechanical Polish	SF4

Conversion of Surface Finishes Chart

Standard Grit	Ra		RMS	
	μ-in	μ-m	μ-in	μ-m
150 grit	27-32	0.68-0.80	30-35	0.76-0.89
180 grit	18-23	0.46-0.58	20-25	0.51-0.64
240 grit	14-18	0.34-0.46	15-20	0.38-0.51
320 grit	8-10	0.21-0.25	9-11	0.23-0.28



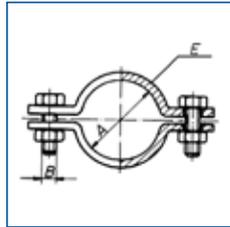
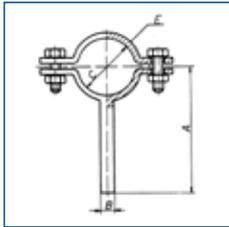
Stainless Steel Tubes, deliverable from stock

High and ultra-high industries require absolutely hygienic conditions during the entire production cycle. Therefore they use in their installations exclusively tubes, fittings and valves with a smooth internal surface that is not only easy to clean, but it also avoids development of bacteria. In addition it allows - in SF4 finish - the production of WFI (water for injection). Gillain & Co only offers tubes that are manufactured, quality controlled, marked and certified according to the highest standards for hygienic equipment design and guarantees extended quality and traceability.

Gillain & Co delivers directly from stock the following stainless steel tubes in grade 316L - with low sulfur content of 0.005 - 0.017% - and SF1 and SF4 finishes (according to the ASME BPE specifications):

Nominal Size in.	Tube O.D x Wall Thickness mm.
1/4"	6.35 × 0.89
3/8"	9.53 × 0.89
1/2"	12.70 × 1.65
3/4"	19.05 × 1.65
1"	25.40 × 1.65
1½"	38.10 × 1.65
2"	50.80 × 1.65
2½"	63.50 × 1.65
3"	76.20 × 1.65
4"	101.60 × 2.11
6"	152.40 × 2.77

Tolerances according ASTM A 270 Supplement 2.



Round pipe support for tube in inch dimensions

Round pipe support with shank for tube in inch dimensions

Size	A	E
1"	25.40	30 × 3
1¼"	31.80	30 × 3
1½"	38.10	30 × 3
2"	50.80	30 × 3
2½"	63.50	30 × 3
3"	76.20	30 × 3
4"	101.60	30 × 3

A13MHM



Clamps - single hinged

Size	A
1"	53.90
1½"	53.90
2"	67.40
2½"	80.90
3"	94.40
4"	122.40



Clamps - double hinged

Size	A
1/2"	28.60
3/4"	28.60
1"	54.00
1½"	54.00
2"	67.40
2½"	80.90
3"	94.40
4"	122.40
6"	170.40
8"	221.20
10"	272.00

3-segment-clamps are also available



Clamp type

p. 11-18



Weld type

p. 27-34





Clamp to weld type

p. 19-26

DT-22
BS14AM



B14W



DT-26
B31M



DT-26
B32M



DT-13
B2KMW



DT-12
B2CMW



B7WWM



DT-15
B7WWMS



B7RWWM



DT-14
B7RWMS

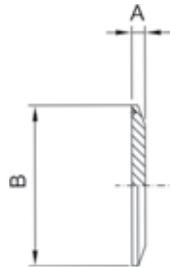


B2UMPBOA



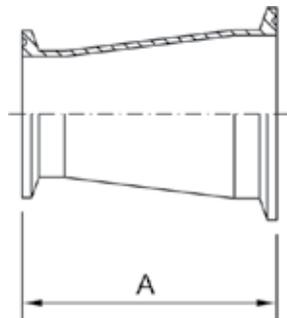
B2UMPSOA





BPE16AMP
BPE Solid End Cap

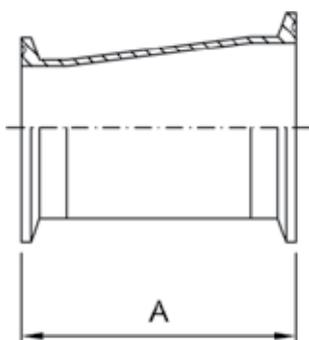
Size	A	B
1/2"	6.35	25.00
3/4"	6.35	25.00
1"	6.35	50.40
1½"	6.35	50.40
2"	6.35	63.91
2½"	6.35	77.50
3"	6.35	90.90
4"	7.90	118.92
6"	11.10	166.68



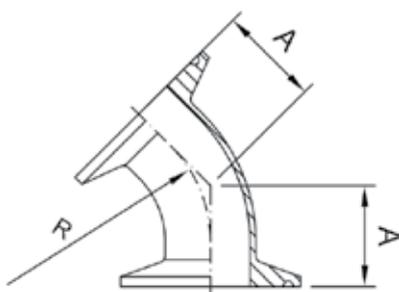
BPE-TABEL #DT-21

BPE31-14MP
BPE Concentric Reducer C x C

Size	A
3/4" × 1/2"	50.80
1" × 1/2"	63.50
1" × 3/4"	50.80
1½" × 1/2"	88.90
1½" × 3/4"	76.20
1½" × 1"	76.20
2" × 1/2"	139.70
2" × 3/4"	127.00
2" × 1"	127.00
2" × 1½"	76.20
2½" × 1"	177.80
2½" × 1½"	127.00
2½" × 2"	76.20
3" × 1"	228.60
3" × 1½"	177.80
3" × 2"	127.00
3" × 2½"	76.20
4" × 1"	333.38
4" × 1½"	282.58
4" × 2"	231.78
4" × 2½"	180.98
4" × 3"	130.18
6" × 3"	190.50
6" × 4"	193.68



BPE-TABEL #DT-21



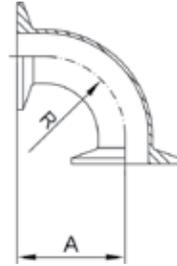
BPE-TABEL #DT-17

BPE32-14MP BPE Eccentric Reducer C x C

Size	A
3/4" × 1/2"	50.80
1" × 1/2"	63.50
1" × 3/4"	50.80
1½" × 1/2"	88.90
1½" × 3/4"	76.20
1½" × 1"	76.20
2" × 1/2"	139.70
2" × 3/4"	127.00
2" × 1"	127.00
2" × 1½"	76.20
2½" × 1"	177.80
2½" × 1½"	127.00
2½" × 2"	76.20
3" × 1"	228.60
3" × 1½"	177.80
3" × 2"	127.00
3" × 2½"	76.20
4" × 1"	333.38
4" × 1½"	282.58
4" × 2"	231.78
4" × 2½"	180.98
4" × 3"	130.18
6" × 3"	190.50
6" × 4"	193.68

BPE2KMP BPE Elbow 45° C x C

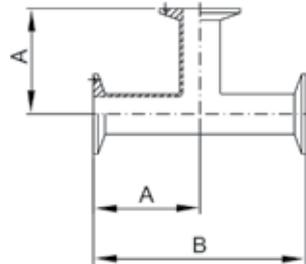
Size	A	R
1/2"	25.4	28.6
3/4"	25.4	28.6
1"	28.6	38.1
1½"	36.6	57.2
2"	44.5	76.2
2½"	52.3	95.3
3"	60.3	114.3
4"	79.4	152.4
6"	133.4	228.6
8"	139.7	304.8
10"	168.3	381.0



BPE-TABLE #DT-16

BPE2CMP
BPE Elbow 90° C x C

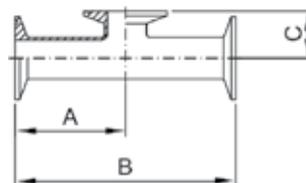
Size	A	R
1/2"	41.30	28.6
3/4"	41.30	28.6
1"	50.80	38.1
1½"	69.85	57.2
2"	88.90	76.1
2½"	108.00	95.3
3"	127.00	114.3
4"	168.30	152.4
6"	266.70	228.6



BPE-TABLE #DT-18

BPE7MP
BPE Equal Tee C x C x C

Size	A	B
1/2"	57.2	114.3
3/4"	60.3	120.6
1"	66.7	133.4
1½"	73.0	146.0
2"	85.7	171.5
2½"	92.1	184.2
3"	98.4	196.9
4"	120.7	241.3
6"	181.0	362.0

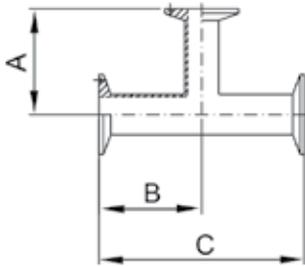


BPE-TABLE #DT-27

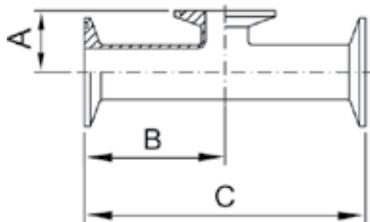
BPE7SMP
BPE Short Tee C x C x C

Size	A	B	C
1/2"	57.2	114.3	25.4
3/4"	60.3	120.6	28.6
1"	66.7	133.4	28.6
1½"	73.0	146.0	34.9
2"	85.7	171.5	41.3
2½"	92.1	184.2	47.6
3"	98.4	196.9	54.0
4"	120.7	241.3	69.9
6"	181.0	362.0	117.5

BPE7RMP
BPE Reducing Tee C x C x C



Size	A	B	C
3/4" x 1/2"	63.50	63.50	127.00
1" x 1/2"	66.68	66.68	133.35
1" x 3/4"	66.68	66.68	133.35
1 1/2" x 1/2"	73.03	73.03	146.05
1 1/2" x 3/4"	73.03	73.03	146.05
1 1/2" x 1"	73.03	73.03	146.05
2" x 1/2"	79.38	85.73	171.45
2" x 3/4"	79.38	85.73	171.45
2" x 1"	79.38	85.73	171.45
2" x 1 1/2"	79.38	85.73	171.45
2 1/2" x 1"	85.73	92.08	184.15
2 1/2" x 1 1/2"	85.73	92.08	184.15
2 1/2" x 2"	85.73	92.08	184.15
3" x 1"	92.08	98.43	196.85
3" x 1 1/2"	92.08	98.43	196.85
3" x 2"	98.43	98.43	196.85
3" x 2 1/2"	98.43	98.43	196.85
4" x 1"	104.78	120.65	241.30
4" x 1 1/2"	104.78	120.65	241.30
4" x 2"	111.13	120.65	241.30
4" x 2 1/2"	111.13	120.65	241.30
4" x 3"	111.13	120.65	241.30
6" x 3"	136.53	181.00	361.95
6" x 4"	146.05	181.00	361.95



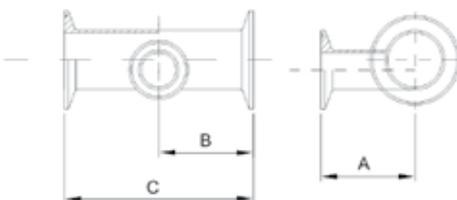
BPE-TABLE #DT-20

BPE7SRMP

BPE Short Outlet Reducing Tee C x C x C

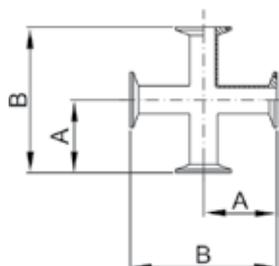
Size	A	B	C
3/4" x 1/2"	25.40	63.50	127.00
1" x 1/2"	28.58	66.68	133.35
1" x 3/4"	28.58	66.68	133.35
1 1/2" x 1/2"	34.93	73.03	146.05
1 1/2" x 3/4"	34.93	73.03	146.05
1 1/2" x 1"	34.93	73.03	146.05
2" x 1/2"	41.28	85.73	171.45
2" x 3/4"	41.28	85.73	171.45
2" x 1"	41.28	85.73	171.45
2" x 1 1/2"	41.28	85.73	171.45
2 1/2" x 1"	47.63	92.08	184.15
2 1/2" x 1 1/2"	47.63	92.08	184.15
2 1/2" x 2"	47.63	92.08	184.15
3" x 1"	54.00	98.43	196.85
3" x 1 1/2"	54.00	98.43	196.85
3" x 2"	54.00	98.43	196.85
3" x 2 1/2"	54.00	98.43	196.85
4" x 1"	66.68	120.65	241.30
4" x 1 1/2"	66.68	120.65	241.30
4" x 2"	66.68	120.65	241.30
4" x 2 1/2"	66.68	120.65	241.30
4" x 3"	66.68	120.65	241.30
6" x 3"	92.08	181.00	361.95
6" x 4"	95.25	181.00	361.95

BPE7REMP
BPE Easy Drainage Eccentric Reducing Tee
C x C x C



BPE-TABLE #DT-19

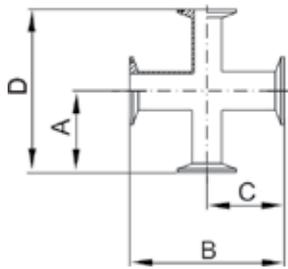
Size	A	B	C
3/4" x 1/2"	63.50	63.50	127.00
1" x 1/2"	66.68	66.68	133.35
1" x 3/4"	66.68	66.68	133.35
1 1/2" x 1/2"	73.03	73.03	146.05
1 1/2" x 3/4"	73.03	73.03	146.05
1 1/2" x 1"	73.03	73.03	146.05
2" x 1/2"	79.38	85.73	171.45
2" x 3/4"	79.38	85.73	171.45
2" x 1"	79.38	85.73	171.45
2" x 1 1/2"	79.38	85.73	171.45
2 1/2" x 1"	85.73	92.08	184.15
2 1/2" x 1 1/2"	85.73	92.08	184.15
2 1/2" x 2"	85.73	92.08	184.15
3" x 1"	92.08	98.43	196.85
3" x 1 1/2"	92.08	98.43	196.85
3" x 2"	98.43	98.43	196.85
3" x 2 1/2"	98.43	98.43	196.85
4" x 1"	104.78	120.65	241.30
4" x 1 1/2"	104.78	120.65	241.30
4" x 2"	111.13	120.65	241.30
4" x 2 1/2"	111.13	120.65	241.30
4" x 3"	111.13	120.65	241.30
6" x 3"	136.53	181.00	361.95
6" x 4"	146.05	181.00	361.95



BPE-TABLE #DT-18

BPE9MP
BPE Equal Cross C x C x C x C

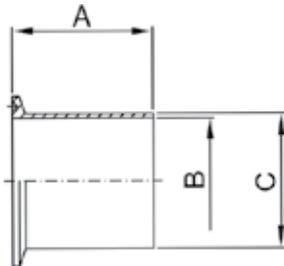
Size	A	B
1/2"	57.2	114.3
3/4"	60.3	120.6
1"	66.7	133.4
1 1/2"	73.0	146.0
2"	85.7	171.4
2 1/2"	92.1	184.2
3"	98.4	196.8
4"	120.6	241.2
6"	181.0	362.0
8"	174.6	349.3
10"	212.7	425.5



BPE9RMP
BPE Reducing Cross C x C x C x C

Size	A	B	C	D
3/4" x 1/2"	63.50	63.50	127.00	127.00
1" x 1/2"	66.68	66.68	133.35	133.35
1" x 3/4"	66.68	66.68	133.35	133.35
1 1/2" x 1/2"	73.03	73.03	146.05	146.05
1 1/2" x 3/4"	73.03	73.03	146.05	146.05
1 1/2" x 1"	73.03	73.03	146.05	146.05
2" x 1/2"	79.38	85.73	171.45	158.75
2" x 3/4"	79.38	85.73	171.45	158.75
2" x 1"	79.38	85.73	171.45	158.75
2" x 1 1/2"	79.38	85.73	171.45	158.75
2 1/2" x 1"	85.73	92.08	184.15	171.45
2 1/2" x 1 1/2"	85.73	92.08	184.15	171.45
2 1/2" x 2"	85.73	92.08	184.15	171.45
3" x 1"	92.08	98.43	196.85	184.15
3" x 1 1/2"	92.08	98.43	196.85	184.15
3" x 2"	98.43	98.43	196.85	196.85
3" x 2 1/2"	98.43	98.43	196.85	196.85
4" x 1"	104.78	120.65	241.30	209.55
4" x 1 1/2"	104.78	120.65	241.30	209.55
4" x 2"	111.13	120.65	241.30	222.25
4" x 2 1/2"	111.13	120.65	241.30	222.25
4" x 3"	111.13	120.65	241.30	222.25
6" x 3"	136.53	181.00	361.95	273.05
6" x 4"	146.05	181.00	361.95	292.10

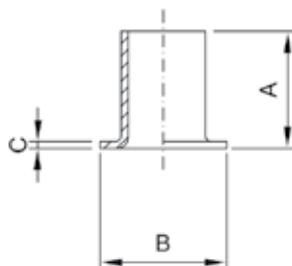
BPE14AMP-AWF
BPE Long Butt-Weld Ferrule C x W



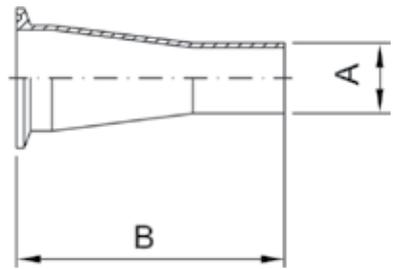
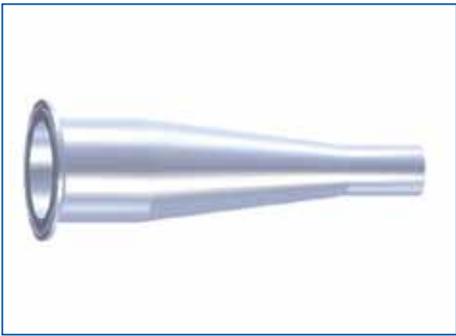
Size	A	B	C
1/2"	44.45	9.40	12.7
3/4"	44.45	15.75	19.0
1"	44.45	22.10	25.4
1½"	44.45	34.80	38.1
2"	57.15	47.50	50.8
2½"	57.15	60.20	63.5
3"	57.15	72.90	76.2
4"	57.15	97.38	101.6
6"	76.20	146.86	152.4

BPE-TABLE #DT-22

BPE14W-AWF
BPE Lap Joint Stub End



Size	A	B	C
1/2"	50.80	42.96	2.5
3/4"	50.80	42.96	2.5
1"	50.80	50.80	3.3
1½"	50.80	73.03	3.3
2"	63.50	92.08	3.3
2½"	63.50	104.78	3.3
3"	63.50	127.00	4.2
4"	63.50	157.16	4.2
6"	76.20	215.90	5.5

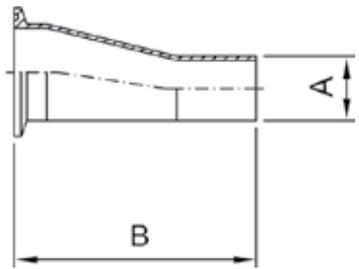
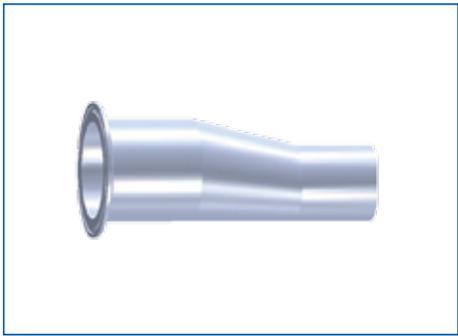


BPE-TABLE #DT-26

BPE31M-AWF
BPE Concentric Reducer C x W

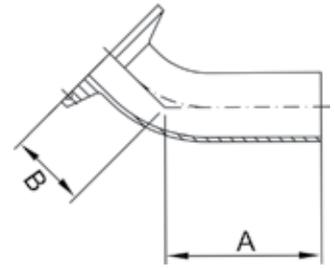
Size		A	B
3/4" x 1/2"		12.7	76.2
1" x 1/2"		12.7	88.9
1" x 3/4"		19.0	76.2
1 1/2" x 1/2"		12.7	114.3
1 1/2" x 3/4"		19.0	101.6
1 1/2" x 1"		25.4	101.6
2" x 1/2"		12.7	165.1
2" x 3/4"		19.0	152.4
2" x 1"		25.4	152.4
2" x 1 1/2"		38.1	101.6
2 1/2" x 1/2"		12.7	215.9
2 1/2" x 3/4"		19.0	203.2
2 1/2" x 1"		25.4	152.4
2 1/2" x 1 1/2"		38.1	152.4
2 1/2" x 2"		50.8	108.0
3" x 1/2"		12.7	266.7
3" x 3/4"		19.0	254.0
3" x 1"		25.4	254.0
3" x 1 1/2"		38.1	203.2
3" x 2"		50.8	158.8
3" x 2 1/2"		63.5	108.0
4" x 1/2"		12.7	371.5
4" x 3/4"		19.0	358.8
4" x 1"		25.4	358.8
4" x 1 1/2"		38.1	308.0
4" x 2"		50.8	263.5
4" x 2 1/2"		63.5	212.7
4" x 3"		76.2	161.9
6" x 3"		76.2	222.3
6" x 4"		101.6	228.6

BPE32M-AWE
BPE Eccentric Reducer C x W



BPE-TABLE #DT-26

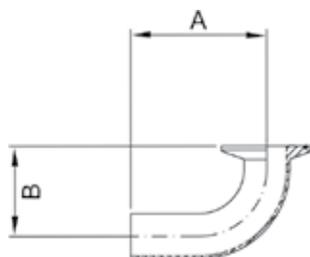
Size	A	B
3/4" x 1/2"	12.7	76.2
1" x 1/2"	12.7	88.9
1" x 3/4"	19.0	76.2
1 1/2" x 1/2"	12.7	114.3
1 1/2" x 3/4"	19.0	101.6
1 1/2" x 1"	25.4	101.6
2" x 1/2"	12.7	165.1
2" x 3/4"	19.0	152.4
2" x 1"	25.4	152.4
2" x 1 1/2"	38.1	101.6
2 1/2" x 1/2"	12.7	215.9
2 1/2" x 3/4"	19.0	203.2
2 1/2" x 1"	25.4	203.2
2 1/2" x 1 1/2"	38.1	152.4
2 1/2" x 2"	50.8	108.0
3" x 1/2"	12.7	266.7
3" x 3/4"	19.0	254.0
3" x 1"	25.4	254.0
3" x 1 1/2"	38.1	203.2
3" x 2"	50.8	158.8
3" x 2 1/2"	63.5	108.0
4" x 1/2"	12.7	371.5
4" x 3/4"	19.0	358.8
4" x 1"	25.4	358.8
4" x 1 1/2"	38.1	308.0
4" x 2"	50.8	263.5
4" x 2 1/2"	63.5	212.7
4" x 3"	76.2	161.9
6" x 3"	76.2	222.3
6" x 4"	101.6	228.6



BPE-TABLE #DT-13

BPE2KM-AWF
BPE Sweep Elbow 45° C x W

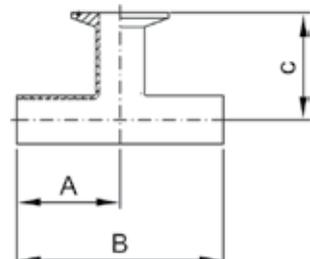
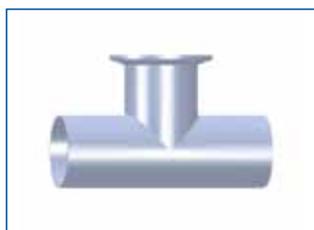
Size	A	B
1/2"	57.15	25.40
3/4"	57.15	25.40
1"	57.15	28.58
1 1/2"	63.50	36.58
2"	76.20	44.45
2 1/2"	85.73	52.32
3"	92.08	60.45
4"	114.30	79.25
6"	158.75	133.35



BPE-TABLE #DT-12

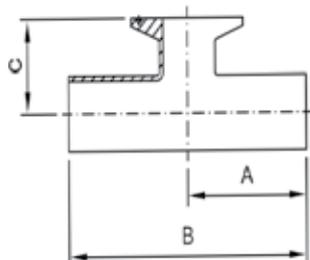
BPE2CM-AWF
BPE Sweep Elbow 90° C x W

Size	A	B
1/2"	76.20	41.28
3/4"	76.20	41.28
1"	76.20	50.80
1½"	95.25	69.85
2"	120.65	88.90
2½"	139.70	107.95
3"	158.75	127.00
4"	203.20	168.28
6"	292.10	266.70



BPE7WM-AWF
BPE Clamp Outlet Tee W x C x W

Size	A	B	C
1/2"	47.63	95.25	60.30
3/4"	50.80	101.60	63.50
1"	53.98	107.95	66.68
1½"	60.33	120.65	73.03
2"	73.03	146.05	85.73
2½"	79.38	158.75	92.08
3"	85.73	171.45	98.43
4"	104.78	209.55	120.65



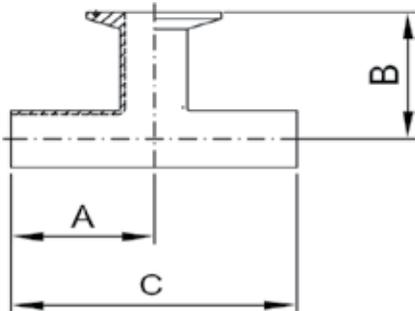
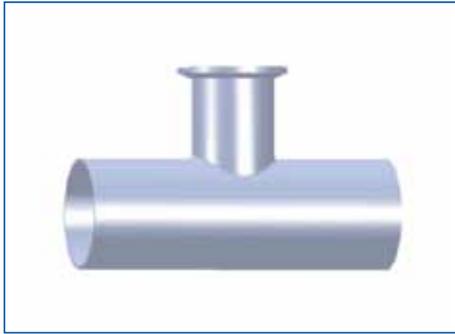
BPE-TABLE #DT-15

BPE7WS-AWF
BPE Short Clamp Outlet Tee W x C x W

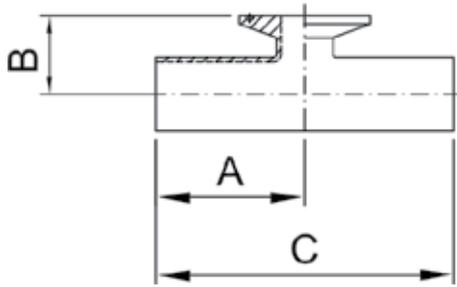
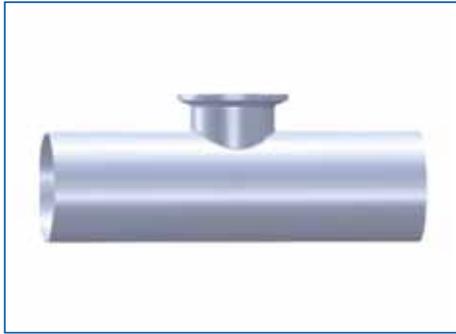
Size	A	B	C
1/2"	47.63	95.25	25.40
3/4"	50.80	101.60	28.58
1"	53.98	107.95	26.90
1½"	60.33	120.65	34.93
2"	73.03	146.05	41.28
2½"	79.38	158.75	47.95
3"	85.73	171.45	54.10
4"	104.78	209.55	70.50

BPE7RWM-AWF

BPE Clamp Outlet Reducing Tee W x C x W



Size	A	B	C
3/4" x 1/2"	50.80	63.50	101.60
1" x 1/2"	53.98	66.68	107.95
1" x 3/4"	53.98	66.68	107.95
1 1/2" x 1/2"	60.33	73.03	120.65
1 1/2" x 3/4"	60.33	73.03	120.65
1 1/2" x 1"	60.33	73.03	120.65
2" x 1/2"	73.03	79.38	146.05
2" x 3/4"	73.03	79.38	146.05
2" x 1"	73.03	79.38	146.05
2" x 1 1/2"	73.03	79.38	146.05
2 1/2" x 1/2"	79.38	85.73	158.75
2 1/2" x 3/4"	79.38	85.73	158.75
2 1/2" x 1"	79.38	85.73	158.75
2 1/2" x 1 1/2"	79.38	85.73	158.75
2 1/2" x 2"	79.38	85.73	158.75
3" x 1/2"	85.73	92.08	171.45
3" x 3/4"	85.73	92.08	171.45
3" x 1"	85.73	92.08	171.45
3" x 1 1/2"	85.73	92.08	171.45
3" x 2"	85.73	92.08	171.45
3" x 2 1/2"	85.73	92.08	171.45
4" x 1/2"	104.78	104.78	209.55
4" x 3/4"	104.78	104.78	209.55
4" x 1"	104.78	104.78	209.55
4" x 1 1/2"	104.78	104.78	209.55
4" x 2"	104.78	111.13	209.55
4" x 2 1/2"	104.78	111.13	209.55
4" x 3"	104.78	111.13	209.55
6" x 3"	142.88	136.53	285.75
6" x 4"	142.88	146.05	285.75

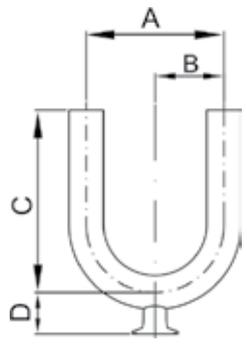


BPE-TABLE #DT-14

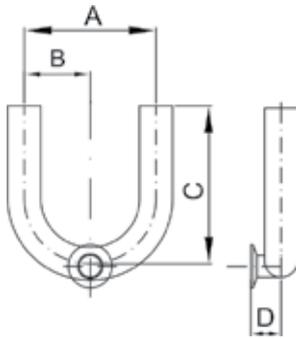
BPE7RWS-AWF
BPE Short Clamp Outlet Reducing Tee
W x C x W

Size	A	B	C
3/4" x 1/2"	50.80	25.40	101.60
1" x 1/2"	53.98	28.58	107.95
1" x 3/4"	53.98	28.58	107.95
1 1/2" x 1/2"	60.33	34.93	120.65
1 1/2" x 3/4"	60.33	34.93	120.65
1 1/2" x 1"	60.33	34.93	120.65
2" x 1/2"	73.03	41.28	146.05
2" x 3/4"	73.03	41.28	146.05
2" x 1"	73.03	41.28	146.05
2" x 1 1/2"	73.03	41.28	146.05
2 1/2" x 1/2"	79.38	47.63	158.75
2 1/2" x 3/4"	79.38	47.63	158.75
2 1/2" x 1"	79.38	47.63	158.75
2 1/2" x 1 1/2"	79.38	47.63	158.75
2 1/2" x 2"	79.38	47.63	158.75
3" x 1/2"	85.73	53.98	171.45
3" x 3/4"	85.73	53.98	171.45
3" x 1"	85.73	53.98	171.45
3" x 1 1/2"	85.73	53.98	171.45
3" x 2"	85.73	53.98	171.45
3" x 2 1/2"	85.73	53.98	171.45
4" x 1/2"	104.78	66.68	209.55
4" x 3/4"	104.78	66.68	209.55
4" x 1"	104.78	66.68	209.55
4" x 1 1/2"	104.78	66.68	209.55
4" x 2"	104.78	66.68	209.55
4" x 2 1/2"	104.78	66.68	209.55
4" x 3"	104.78	66.68	209.55
6" x 3"	142.88	92.08	285.75
6" x 4"	142.88	95.25	285.75

BPEL29RBMS
BPE Point of Use Bend 180° Reduced
Bottom Clamp Outlet W x C x W



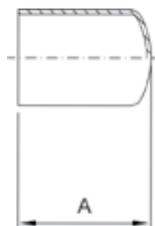
Size	A	B	C	D
3/4" x 1/2"	114.30	57.15	95.25	25.40
1" x 1/2"	114.30	57.15	95.25	28.58
1" x 3/4"	114.30	57.15	95.25	28.58
1½" x 1/2"	152.40	76.20	114.30	34.93
1½" x 3/4"	152.40	76.20	114.30	34.93
1½" x 1"	152.40	76.20	114.30	34.93
2" x 1/2"	152.40	76.20	127.00	41.28
2" x 3/4"	152.40	76.20	127.00	41.28
2" x 1"	152.40	76.20	127.00	41.28
2" x 1½"	152.40	76.20	127.00	41.28
2½" x 1/2"	190.50	95.25	146.05	47.63
2½" x 3/4"	190.50	95.25	146.05	47.63
2½" x 1"	190.50	95.25	146.05	47.63
2½" x 1½"	190.50	95.25	146.05	47.63
2½" x 2"	190.50	95.25	146.05	47.63
3" x 1/2"	228.60	114.30	165.10	53.98
3" x 3/4"	228.60	114.30	165.10	53.98
3" x 1"	228.60	114.30	165.10	53.98
3" x 1½"	228.60	114.30	165.10	53.98
3" x 2"	228.60	114.30	165.10	53.98
3" x 2½"	228.60	114.30	165.10	53.98
4" x 1/2"	304.80	152.40	215.90	66.68
4" x 3/4"	304.80	152.40	215.90	66.68
4" x 1"	304.80	152.40	215.90	66.68
4" x 1½"	304.80	152.40	215.90	66.68
4" x 2"	304.80	152.40	215.90	66.68
4" x 2½"	304.80	152.40	215.90	66.68
4" x 3"	304.80	152.40	215.90	66.68



BPEL29RMS
BPE Point of Use Bend 180° Reduced
Side Clamp Outlet W x C x W

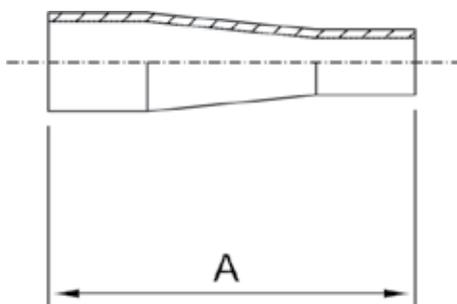
Size	A	B	C	D
3/4" x 1/2"	114.30	57.15	95.25	25.40
1" x 1/2"	114.30	57.15	95.25	28.58
1" x 3/4"	114.30	57.15	95.25	28.58
1½" x 1/2"	152.40	76.20	114.30	34.93
1½" x 3/4"	152.40	76.20	114.30	34.93
1½" x 1"	152.40	76.20	114.30	34.93
2" x 1/2"	152.40	76.20	127.00	41.28
2" x 3/4"	152.40	76.20	127.00	41.28
2" x 1"	152.40	76.20	127.00	41.28
2" x 1½"	152.40	76.20	127.00	41.28
2½" x 1/2"	190.50	95.25	146.05	47.63
2½" x 3/4"	190.50	95.25	146.05	47.63
2½" x 1"	190.50	95.25	146.05	47.63
2½" x 1½"	190.50	95.25	146.05	47.63
2½" x 2"	190.50	95.25	146.05	47.63
3" x 1/2"	228.60	114.30	165.10	53.98
3" x 3/4"	228.60	114.30	165.10	53.98
3" x 1"	228.60	114.30	165.10	53.98
3" x 1½"	228.60	114.30	165.10	53.98
3" x 2"	228.60	114.30	165.10	53.98
3" x 2½"	228.60	114.30	165.10	53.98
4" x 1/2"	304.80	152.40	215.90	66.68
4" x 3/4"	304.80	152.40	215.90	66.68
4" x 1"	304.80	152.40	215.90	66.68
4" x 1½"	304.80	152.40	215.90	66.68
4" x 2"	304.80	152.40	215.90	66.68
4" x 2½"	304.80	152.40	215.90	66.68
4" x 3"	304.80	152.40	215.90	66.68

BPE-TABLE #DT-30



BPE16W-AWF
BPE Welding Cap

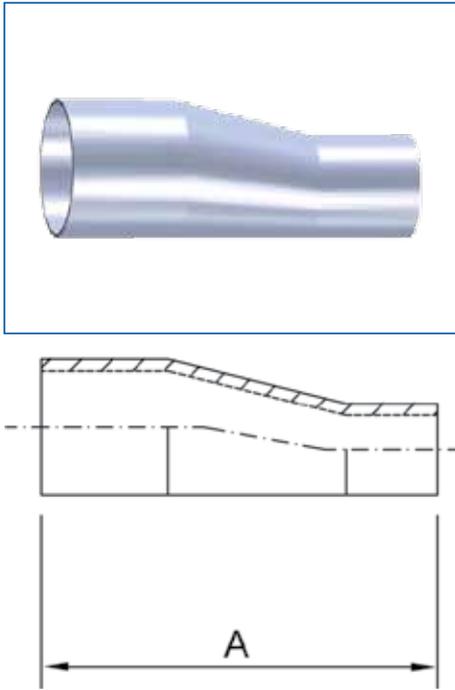
Size	A
1/2"	44.45
3/4"	46.04
1"	47.63
1½"	52.39
2"	69.85
2½"	76.20
3"	82.55
4"	101.60
6"	127.00



BPE31-AWF
BPE Concentric Reducer W x W

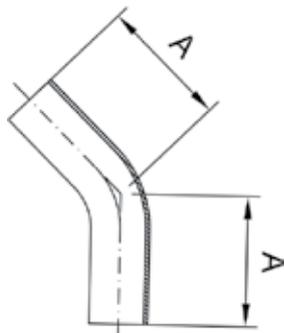
Size	A
3/4" x 1/2"	101.6
1" x 1/2"	114.3
1" x 3/4"	101.6
1½" x 1/2"	139.7
1½" x 3/4"	127.0
1½" x 1"	127.0
2" x 1/2"	196.9
2" x 3/4"	184.2
2" x 1"	184.2
2" x 1½"	133.4
2½" x 1/2"	247.7
2½" x 3/4"	235.0
2½" x 1"	235.0
2½" x 1½"	184.2
2½" x 2"	139.7
3" x 1/2"	298.5
3" x 3/4"	285.8
3" x 1"	285.8
3" x 1½"	235.0
3" x 2"	190.5
3" x 2½"	139.7
4" x 1/2"	406.4
4" x 3/4"	393.7
4" x 1"	393.7
4" x 1½"	342.9
4" x 2"	298.5
4" x 2½"	247.7
4" x 3"	196.9
6" x 3"	247.7
6" x 4"	254.0

BPE-TABLE #DT-11



BPE-TABLE #DT-11

BPE-TABLE #DT-8



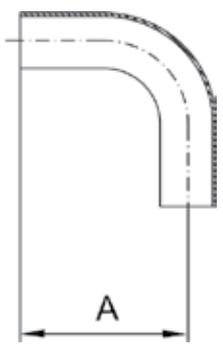
BPE32-AWF BPE Eccentric Reducer W x W

Size	A
3/4" x 1/2"	101.6
1" x 1/2"	114.3
1" x 3/4"	101.6
1 1/2" x 1/2"	139.7
1 1/2" x 3/4"	127.0
1 1/2" x 1"	127.0
2" x 1/2"	196.9
2" x 3/4"	184.2
2" x 1"	184.2
2" x 1 1/2"	133.4
2 1/2" x 1/2"	247.7
2 1/2" x 3/4"	235.0
2 1/2" x 1"	235.0
2 1/2" x 1 1/2"	184.2
2 1/2" x 2"	139.7
3" x 1/2"	298.5
3" x 3/4"	285.8
3" x 1"	285.8
3" x 1 1/2"	235.0
3" x 2"	190.5
3" x 2 1/2"	139.7
4" x 1/2"	406.4
4" x 3/4"	393.7
4" x 1"	393.7
4" x 1 1/2"	342.9
4" x 2"	298.5
4" x 2 1/2"	247.7
4" x 3"	196.9
6" x 3"	247.7
6" x 4"	254.0

BPE2KS-AWF BPE Tube Bend 45° W x W

Size	A	T
1/2"	57.15	1.65
3/4"	57.15	1.65
1"	57.15	1.65
1 1/2"	63.50	1.65
2"	76.20	1.65
2 1/2"	85.85	1.65
3"	91.95	1.65
4"	114.30	2.11
6"	158.88	2.77

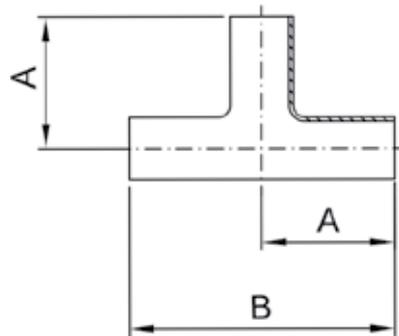
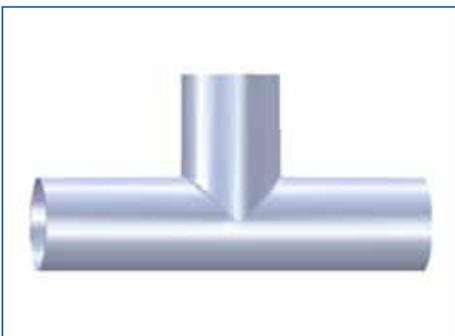
BPE2S-AWF
BPE Tube Bend 90° W x W



Size	A	T
1/2"	76.20	1.65
3/4"	76.20	1.65
1"	76.20	1.65
1½"	95.25	1.65
2"	120.65	1.65
2½"	139.70	1.65
3"	158.75	1.65
4"	203.20	2.11
6"	292.10	2.77

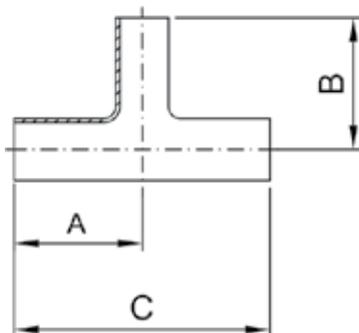
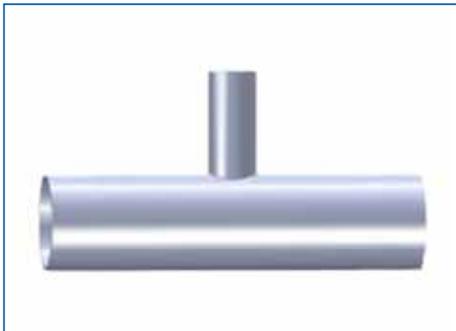
BPE-TABLE #DT-7

BPE7WW-AWF
BPE Equal Tee W x W x W



Size	A	B
1/2"	47.63	95.25
3/4"	50.80	101.60
1"	53.98	107.95
1½"	60.33	120.65
2"	73.03	146.05
2½"	79.38	158.75
3	85.73	171.45
4	104.78	209.55
6	142.90	285.80

BPE-TABLE #DT-9



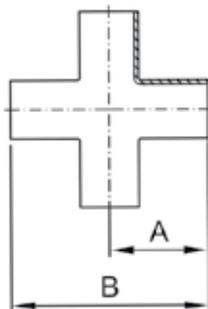
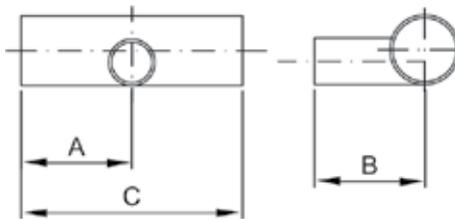
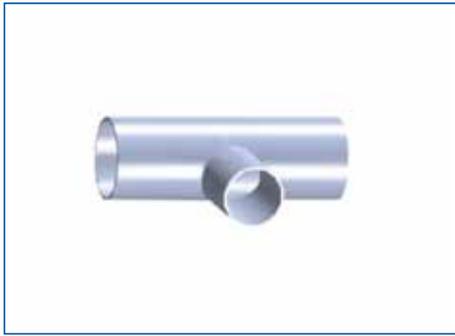
BPE-TABLE #DT-10

BPE7RW-AWF BPE Reducing Tee W x W x W

Size	A	B	C
3/4" x 1/2"	50.80	50.80	101.60
1" x 1/2"	53.98	53.98	107.95
1" x 3/4"	53.98	53.98	107.95
1 1/2" x 1/2"	60.33	60.33	120.65
1 1/2" x 3/4"	60.33	60.33	120.65
1 1/2" x 1"	60.33	60.33	120.65
2" x 1/2"	73.03	66.68	146.05
2" x 3/4"	73.03	66.68	146.05
2" x 1"	73.03	66.68	146.05
2" x 1 1/2"	73.03	66.68	146.05
2 1/2" x 1/2"	79.38	73.03	158.75
2 1/2" x 3/4"	79.38	73.03	158.75
2 1/2" x 1"	79.38	73.03	158.75
2 1/2" x 1 1/2"	79.38	73.03	158.75
2 1/2" x 2"	79.38	73.03	158.75
3" x 1/2"	85.73	79.38	171.45
3" x 3/4"	85.73	79.38	171.45
3" x 1"	85.73	79.38	171.45
3" x 1 1/2"	85.73	79.38	171.45
3" x 2"	85.73	79.38	171.45
3" x 2 1/2"	85.73	79.38	171.45
4" x 1/2"	104.78	92.08	209.55
4" x 3/4"	104.78	92.08	209.55
4" x 1"	104.78	92.08	209.55
4" x 1 1/2"	104.78	92.08	209.55
4" x 2"	104.78	98.43	209.55
4" x 2 1/2"	104.78	98.43	209.55
4" x 3"	104.78	98.43	209.55
6" x 3"	142.88	123.95	285.75
6" x 4"	142.88	130.18	285.75

BPE7ERW-AWF

BPE Easy Drainage Eccentric Reducing Tee W x W x W

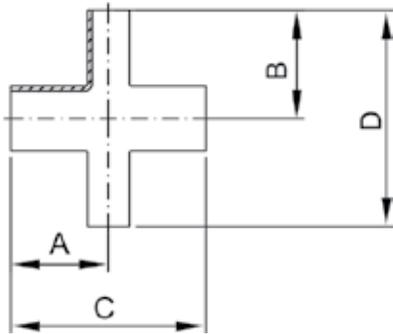
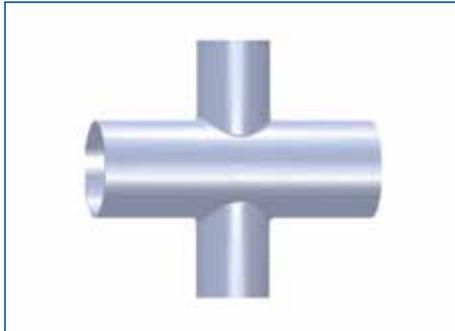


Size	A	B	C
3/4" x 1/2"	50.80	50.80	101.60
1" x 1/2"	53.98	53.98	107.95
1" x 3/4"	53.98	53.98	107.95
1 1/2" x 1/2"	60.33	60.33	120.65
1 1/2" x 3/4"	60.33	60.33	120.65
1 1/2" x 1"	60.33	60.33	120.65
2" x 1/2"	73.03	66.68	146.05
2" x 3/4"	73.03	66.68	146.05
2" x 1"	73.03	66.68	146.05
2" x 1 1/2"	73.03	66.68	146.05
2 1/2" x 1/2"	79.38	73.03	158.75
2 1/2" x 3/4"	79.38	73.03	158.75
2 1/2" x 1"	79.38	73.03	158.75
2 1/2" x 1 1/2"	79.38	73.03	158.75
2 1/2" x 2"	79.38	73.03	158.75
3" x 1/2"	85.73	79.38	171.45
3" x 3/4"	85.73	79.38	171.45
3" x 1"	85.73	79.38	171.45
3" x 1 1/2"	85.73	79.38	171.45
3" x 2"	85.73	79.38	171.45
3" x 2 1/2"	85.73	79.38	171.45
4" x 1/2"	104.78	92.08	209.55
4" x 3/4"	104.78	92.08	209.55
4" x 1"	104.78	92.08	209.55
4" x 1 1/2"	104.78	92.08	209.55
4" x 2"	104.78	98.43	209.55
4" x 2 1/2"	104.78	98.43	209.55
4" x 3"	104.78	98.43	209.55
6" x 3"	142.88	123.95	285.75
6" x 4"	142.88	130.18	285.75

BPE9W-AWF

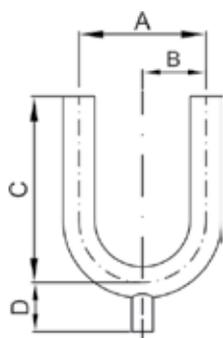
BPE Equal Cross W x W x W x W

Size	A	B
1/2"	47.60	95.20
3/4"	50.80	101.60
1"	54.00	108.00
1 1/2"	60.30	120.60
2"	73.00	146.00
2 1/2"	79.40	158.80
3"	85.70	171.40
4"	104.80	209.60

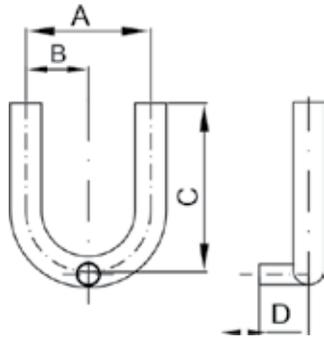
**BPE9RW-AWF****BPE Reducing Cross W x W x W x W**

Size	A	B	C	D
3/4" x 1/2"	50.80	50.80	101.60	101.60
1" x 1/2"	54.00	54.90	107.95	108.00
1" x 3/4"	54.00	54.90	107.95	108.00
1½" x 1/2"	60.30	60.30	120.65	120.60
1½" x 3/4"	60.30	60.30	120.65	120.60
1½" x 1"	60.30	60.30	120.65	120.65
2" x 1/2"	73.00	66.70	146.05	133.40
2" x 3/4"	73.00	66.70	146.05	133.40
2" x 1"	73.00	66.70	146.05	133.40
2" x 1½"	73.00	66.70	146.05	133.40
2½" x 1/2"	79.40	73.00	158.75	146.00
2½" x 3/4"	79.40	73.00	158.75	146.00
2½" x 1"	79.40	73.00	158.75	146.00
2½" x 1½"	79.40	73.00	158.75	146.00
2½" x 2"	79.40	73.00	158.75	146.00
3" x 1/2"	85.70	79.40	171.45	158.80
3" x 3/4"	85.70	79.40	171.45	158.80
3" x 1"	85.70	79.40	171.45	158.80
3" x 1½"	85.70	79.40	171.45	158.80
3" x 2"	85.70	79.40	171.45	158.80
3" x 2½"	85.70	79.40	171.45	158.80
4" x 1/2"	104.80	92.10	209.60	184.20
4" x 3/4"	104.80	92.10	209.60	184.20
4" x 1"	104.80	92.10	209.60	184.20
4" x 1½"	104.80	92.10	209.60	184.20
4" x 2"	104.80	98.40	209.60	196.80
4" x 2½"	104.80	98.40	209.60	196.80
4" x 3"	104.80	98.40	209.60	196.80
6" x 3"	142.90	130.20	285.80	206.40
6" x 4"	142.90	130.20	285.80	206.40

BPEL29RBW
BPE Point of Use Bend 180° Reduced
Bottom Outlet W x W x W



Size	A	B	C	D
3/4" × 1/2"	114.30	57.15	76.20	50.58
1" × 1/2"	114.30	57.15	76.20	53.98
1" × 3/4"	114.30	57.15	76.20	53.98
1½" × 1/2"	152.40	76.20	114.30	60.33
1½" × 3/4"	152.40	76.20	114.30	60.33
1½" × 1"	152.40	76.20	114.30	60.33
2" × 1/2"	152.40	76.20	127.00	66.55
2" × 3/4"	152.40	76.20	127.00	66.55
2" × 1"	152.40	76.20	127.00	66.55
2" × 1½"	152.40	76.20	127.00	66.55
2½" × 1/2"	190.50	95.25	146.05	73.03
2½" × 3/4"	190.50	95.25	146.05	73.03
2½" × 1"	190.50	95.25	146.05	73.03
2½" × 1½"	190.50	95.25	146.05	73.03
2½" × 2"	190.50	95.25	146.05	73.03
3" × 1/2"	228.60	114.30	165.10	79.38
3" × 3/4"	228.60	114.30	165.10	79.38
3" × 1"	228.60	114.30	165.10	79.38
3" × 1½"	228.60	114.30	165.10	79.38
3" × 2"	228.60	114.30	165.10	79.38
3" × 2½"	228.60	114.30	165.10	79.38
4" × 1/2"	304.80	152.40	215.90	92.08
4" × 3/4"	304.80	152.40	215.90	92.08
4" × 1"	304.80	152.40	215.90	92.08
4" × 1½"	304.80	152.40	215.90	92.08
4" × 2"	304.80	152.40	215.90	98.55
4" × 2½"	304.80	152.40	215.90	98.55
4" × 3"	304.80	152.40	215.90	98.55

**BPEL29RSW****BPE Point of Use Bend 180° Reduced Side Outlet W x W x W**

Size	A	B	C	D
3/4" × 1/2"	114.30	57.15	95.25	50.58
1" × 1/2"	114.30	57.15	95.25	53.98
1" × 3/4"	114.30	57.15	95.25	53.98
1½" × 1/2"	152.40	76.20	114.30	60.33
1½" × 3/4"	152.40	76.20	114.30	60.33
1½" × 1"	152.40	76.20	114.30	60.33
2" × 1/2"	152.40	76.20	127.00	66.55
2" × 3/4"	152.40	76.20	127.00	66.55
2" × 1"	152.40	76.20	127.00	66.55
2" × 1½"	152.40	76.20	127.00	66.55
2½" × 1/2"	190.50	95.25	146.05	73.03
2½" × 3/4"	190.50	95.25	146.05	73.03
2½" × 1"	190.50	95.25	146.05	73.03
2½" × 1½"	190.50	95.25	146.05	73.03
2½" × 2"	190.50	95.25	146.05	73.03
3" × 1/2"	228.60	114.30	165.10	79.38
3" × 3/4"	228.60	114.30	165.10	79.38
3" × 1"	228.60	114.30	165.10	79.38
3" × 1½"	228.60	114.30	165.10	79.38
3" × 2"	228.60	114.30	165.10	79.38
3" × 2½"	228.60	114.30	165.10	79.38
4" × 1/2"	304.80	152.40	215.90	92.08
4" × 3/4"	304.80	152.40	215.90	92.08
4" × 1"	304.80	152.40	215.90	92.08
4" × 1½"	304.80	152.40	215.90	92.08
4" × 2"	304.80	152.40	215.90	98.55
4" × 2½"	304.80	152.40	215.90	98.55
4" × 3"	304.80	152.40	215.90	98.55





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