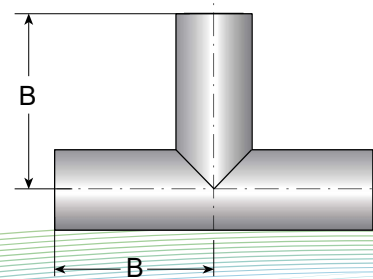


Tees

Equal Tee WWW DT-4.1.2-1

Normal size	Dimensions		Ordering Code
	B in.	B mm	
1/4	1.750	44.5	007000-450-P6*
3/8	1.750	44.5	010000-450-P6*
1/2	1.875	47.6	015000-450-P6*
3/4	2.000	50.8	020000-450-P6*
1	2.125	54.0	025000-450-P6*
1 1/2	2.375	60.3	038000-450-P6*
2	2.875	73.0	051000-450-P6*
2 1/2	3.125	79.4	063000-450-P6*
3	3.375	85.7	076000-450-P6*
4	4.125	104.8	100000-450-P6*
6	5.625	142.9	150000-450-P6*

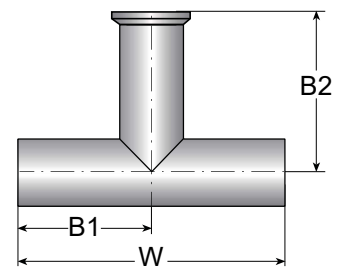


BPE TABLE # DT 4.1.2-1

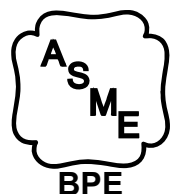
*The last digit referse to surface quality, according to Table 1

Equal Tee WCW

Normal size	Dimensions						Ordering Code
	B1in.	B1mm	B2in.	B2mm	W in.	W mm	
1/2	1.875	47.6	2.250	57.2	3.750	95.2	015000-451-P6*
3/4	2.000	50.8	2.375	60.3	4.000	101.6	020000-451-P6*
1	2.125	54.0	2.625	66.68	4.250	108.0	025000-451-P6*
1 1/2	2.375	60.3	2.875	73.03	4.750	120.6	038000-451-P6*
2	2.875	73.0	3.375	85.70	5.750	146.0	051000-451-P6*
2 1/2	3.125	79.4	3.625	92.08	6.250	158.8	063000-451-P6*
3	3.375	85.7	3.875	98.43	6.750	171.4	076000-451-P6*
4	4.125	104.8	4.750	120.65	8.250	209.6	100000-451-P6*
6	5.625	142.9	7.125	181.0	11.250	285.8	150000-451-P6*



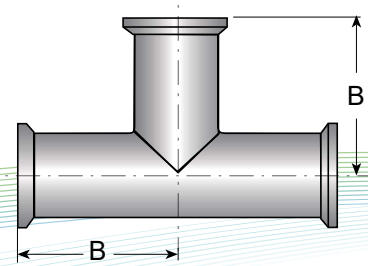
*The last digit referse to surface quality, according to Table 1



Tees

Clamp Equal Tee CCC DT-4.1.2-4

Normal size	Dimensions		Ordering Code
	Bin.	Bmm	
1/4	2.250	57.2	007000-452-P6*
3/8	2.250	57.2	010000-452-P6*
1/2	2.250	57.2	015000-452-P6*
3/4	2.375	60.3	020000-452-P6*
1	2.625	66.7	025000-452-P6*
1 1/2	2.875	73.0	038000-452-P6*
2	3.375	85.7	051000-452-P6*
2 1/2	3.625	92.1	063000-452-P6*
3	3.875	98.4	076000-452-P6*
4	4.750	120.7	100000-452-P6*
6	7.125	181.0	150000-452-P6*



BPE TABLE # DT 4.1.2-4

*The last digit referce to surface quality, according to Table1

TECHNICAL DATA

Material	316L
Norm	ASME - BPE
BPE Table	DT - 4.1.2-4
Surface finish standard on stock	SF1

Table 1

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	0
SF1(MP* 20μ-in 0.51μm)	Light Polish	1
SF1(MP* 20μ-in 0.51μm)	Mechanically polished to 32RA μ-in	4
SF4(MPE** 15μ-in 0.38μm)	Light Polish	D
SF4(MPE** 15μ-in 0.38μm)	Mechanically polished to 32RA μ-in	M
MPE** 10μ-in 0.25μm	Mechanically polished to 32RA μ-in	R

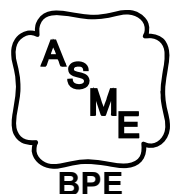
*MP: Mechanically Polished

**MPE: Mechanically Polished & Electropolished

Ordering Example

Description	Nomimal Size In.	Ordering Code
Type 452	1/2"	015000-452-P61*

*Material and Surface are including to the ordering code



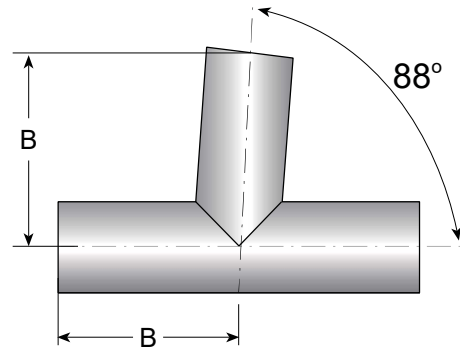
Tees

88 Degree

88° Equal Tee WWW

Nomimal Size In.	Dimensions		Ordering Code
	Bin.	Bmm	
1	2.125	54	025000-460-P6*
1 1/2	2.375	60.3	038000-460-P6*
2	2.875	73	051000-460-P6*
2 1/2	3.125	79.4	063000-460-P6*
3	3.375	85.7	076000-460-P6*
4	4.125	104.8	100000-460-P6*

*The last digit referce to surface quality, according to Table 1



TECHNICAL DATA

Material	316L
Norm	ASME - BPE
Surface finish standard on stock	SF1

Table 1

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	0
SF1(MP* 20μ-in 0.51μm)	Light Polish	1
SF1(MP* 20μ-in 0.51μm)	Mechanically polished to 32RA μ-in	4
SF4(MPE** 15μ-in 0.38μm)	Light Polish	D
SF4(MPE** 15μ-in 0.38μm)	Mechanically polished to 32RA μ-in	M
MPE** 10μ-in 0.25μm	Mechanically polished to 32RA μ-in	R

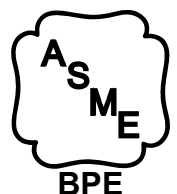
*MP: Mechanically Polished

**MPE: Mechanically Polished & Electropolished

Ordering Example

Description	Nomimal Size In.	Ordering Code
Type 460	1"	025000-460-P61*

*Material and Surface are including to the ordering code



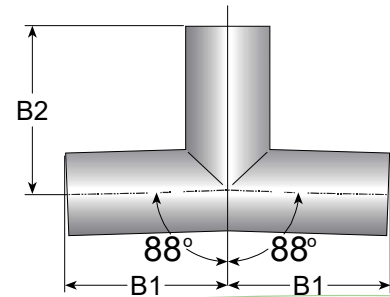
Tees

176 Degree

176° Equal Tee WWW

Nomimal Size In.	Dimensions				Ordering Code
	B2in.	B2mm	B1in.	B1mm	
1	2.2	55.88	2.12	53.848	025000-465-P6*
1 1/2	2.46	62.484	2.37	60.198	038000-465-P6*
2	2.98	75.692	2.87	72.898	051000-465-P6*
2 1/2	3.24	82.296	3.12	79.248	063000-465-P6*
3	3.5	88.9	3.73	94.742	076000-465-P6*
4	4.27	108.458	4.12	104.648	100000-465-P6*

*The last digit referce to surface quality, according to Table 1



TECHNICAL DATA

Material	316L
Norm	ASME - BPE
Surface finish standard on stock	SF1

Table 1

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	0
SF1(MP* 20μ-in 0.51μm)	Light Polish	1
SF1(MP* 20μ-in 0.51μm)	Mechanically polished to 32RA μ-in	4
SF4(MPE** 15μ-in 0.38μm)	Light Polish	D
SF4(MPE** 15μ-in 0.38μm)	Mechanically polished to 32RA μ-in	M
MPE** 10μ-in 0.25μm	Mechanically polished to 32RA μ-in	R

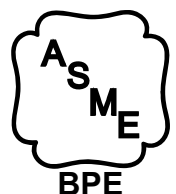
*MP: Mechanically Polished

**MPE: Mechanically Polished & Electropolished

Ordering Example

Description	Nomimal Size In.	Ordering Code
Type 465	1"	025000-465-P61*

*Material and Surface are including to the ordering code

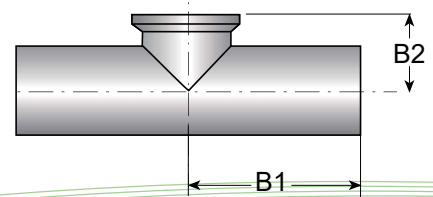


Tees

Short Outlet

Short Outlet Equal Tee WCW DT-4.1.2-2

Nomimal Size In.	Dimensions				Ordering Code
	B1in.	B1mm	B2in.	B2mm	
1/4	1.750	44.5	1.000	25.4	007000-455-P6*
3/8	1.750	44.5	1.000	25.4	010000-455-P6*
1/2	1.875	47.6	1.000	25.4	015000-455-P6*
3/4	2.000	50.8	1.125	28.6	020000-455-P6*
1	2.125	54.0	1.125	28.6	025000-455-P6*
1 1/2	2.375	60.3	1.375	34.9	038000-455-P6*
2	2.875	73.0	1.625	41.3	051000-455-P6*
2 1/2	3.125	79.4	1.875	47.6	063000-455-P6*
3	3.375	85.7	2.125	54.0	076000-455-P6*
4	4.125	104.8	2.750	69.9	100000-455-P6*
6	5.625	142.9	4.625	117.5	150000-455-P6*

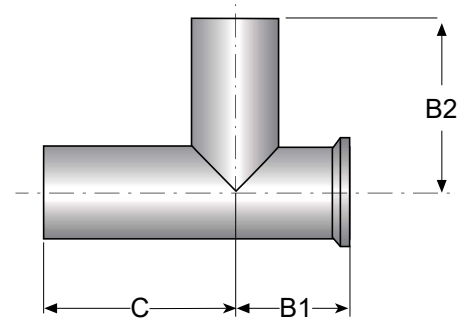


BPE TABLE # DT-4.1.2-2

*The last digit referce to surface quality, according to Table 1

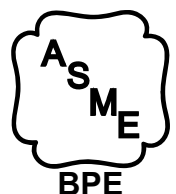
Short Outlet Run Tee WWC DT-4.1.2-3

Nomimal Size In.	Dimensions						Ordering Code
	B1in.	B1mm	Cin.	Cmm	B2in.	B2mm	
1/4	0.875	22.2	1.750	44.5	1.750	44.5	007000-456-P6*
3/8	0.875	22.2	1.750	44.5	1.750	44.5	010000-456-P6*
1/2	0.875	22.2	1.875	47.6	1.875	47.6	015000-456-P6*
3/4	1.000	25.4	2.000	50.8	2.000	50.8	020000-456-P6*
1	1.125	28.6	2.125	54.0	2.125	54.0	025000-456-P6*
1 1/2	1.375	34.9	2.375	60.3	2.375	60.3	038000-456-P6*
2	1.625	41.3	2.875	73.0	2.875	73.0	051000-456-P6*
2 1/2	1.875	47.6	3.125	79.4	3.125	79.4	063000-456-P6*
3	2.125	54.0	3.375	85.7	3.375	85.7	076000-456-P6*
4	2.750	69.9	4.125	104.8	4.125	104.8	100000-456-P6*
6	4.625	117.5	5.625	142.9	5.625	142.9	150000-456-P6*



BPE TABLE # DT-4.1.2-3

*The last digit referce to surface quality, according to Table 1

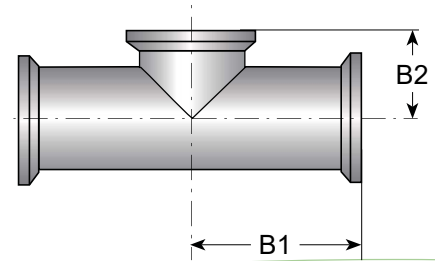


Tees

Short Outlet

Short Outlet Tee CCC DT-4.1.2-5

Nominal Size In.	Dimensions				Ordering Code
	B1in.	B1mm	B2in.	B2mm	
1/2	2.250	57.2	1.000	25.4	015000-457-P6*
3/4	2.375	60.3	1.125	28.6	010000-457-P6*
1	2.625	66.7	1.125	28.6	025000-457-P6*
1 1/2	2.875	73.0	1.375	34.9	038000-457-P6*
2	3.375	85.7	1.625	41.3	051000-457-P6*
2 1/2	3.625	92.1	1.875	47.6	063000-457-P6*
3	3.875	98.4	2.125	54.0	076000-457-P6*
4	4.750	120.0	2.750	69.9	100000-457-P6*
6	7.125	181.0	4.625	117.5	150000-457-P6*



BPE TABLE # DT 4.1.2-5

*The last digit referce to surface quality, according to Table 1

TECHNICAL DATA	
Material	316L
Norm	ASME - BPE
BPE Table	DT - 4.1.2-5
Surface finish standard on stock	SF1

Table 1

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	0
SF1(MP* 20μ-in 0.51μm)	Light Polish	1
SF1(MP* 20μ-in 0.51μm)	Mechanically polished to 32RA μ-in	4
SF4(MPE** 15μ-in 0.38μm)	Light Polish	D
SF4(MPE** 15μ-in 0.38μm)	Mechanically polished to 32RA μ-in	M
MPE** 10μ-in 0.25μm	Mechanically polished to 32RA μ-in	R

*MP: Mechanically Polished

**MPE: Mechanically Polished & Electropolished

Ordering Example

Description	Nominal Size In.	Ordering Code
Type 457	1"	025000-457-P61*

*Material and Surface are including to the ordering code

