



Sanitary pipe fittings





Technical data

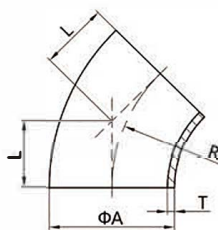
Standard	DIN, 3A, SMS, BS, ISO, GB, Macon
Size	1"-6" DN10-DN200 17.2-168.3 Macon43-103
Material grade	304, 304L, 316, 316L
Roughness	1) 180 Grit
	2) 240 Grit
	3) 320 Grit
	4) 420 Grit
	5) Unpolished





45° Elbow Without Straight-End

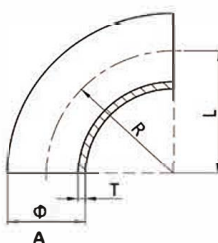
D.2WK-45°



Size	A	T	R	L
10	12/13	1.5	26.0	10.7
15	18/19	1.5	35.0	14.5
20	22/23	1.5	40.0	16.5
25	28/29	1.5	50.0	20.7
32	34/35	1.5	55.0	22.8
40	40/41	1.5	60.0	24.8
50	52/53	1.5	70.0	29.0
65	70	2.0	80.0	33.2
80	85	2.0	90.0	37.3
100	104	2.0	100.0	41.5
125	129	2.0	187.5	77.5
150	154	2.0	225.0	93.2

90° Elbow Without Straight-End

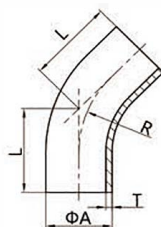
D.2WK-90°



Size	A	T	R	L
10	12/13	1.5	26.0	26.0
15	18/19	1.5	35.0	35.0
20	22/23	1.5	40.0	40.0
25	28/29	1.5	50.0	50.0
32	34/35	1.5	55.0	55.0
40	40/41	1.5	60.0	60.0
50	52/53	1.5	70.0	70.0
65	70	2.0	80.0	80.0
80	85	2.0	90.0	90.0
100	104	2.0	100.0	100.0
125	129	2.0	187.5	187.5
150	154	2.0	225.0	225.0

45° Elbow With Straight-End

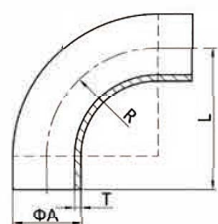
D.L2WS-45°



Size	A	T	R	L
10	12/13	1.5	26.0	35.8
15	18/19	1.5	35.0	39.5
20	22/23	1.5	40.0	41.6
25	28/29	1.5	50.0	60.7
32	34/35	1.5	55.0	62.8
40	40/41	1.5	60.0	64.9
50	52/53	1.5	70.0	69.0
65	70	2.0	80.0	73.0
80	85	2.0	90.0	92.3
100	104	2.0	100.0	96.4
125	129	2.0	187.5	135.2

90° Elbow With Straight-End

D.L2WS-90°



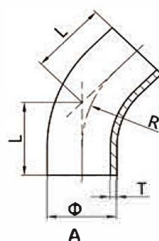
Size	A	T	R	L
10	12/13	1.5	26.0	51
15	18/19	1.5	35.0	60
20	22/23	1.5	40.0	65
25	28/29	1.5	50.0	90
32	34/35	1.5	55.0	95
40	40/41	1.5	60.0	100
50	52/53	1.5	70.0	110
65	70	2.0	80.0	120
80	85	2.0	90.0	145
100	104	2.0	100.0	155
125	129	2.0	187.5	245





45° Expanding Elbow

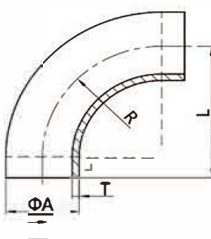
D.LS2WS-45°



Size	A	T	R	L
10	12	1.5	26.0	26.4
15	18	1.5	35.0	35.2
20	22	1.5	40.0	38.1
25	28	1.5	50.0	42.8
32	34	1.5	55.0	48.6
40	40	1.5	60.0	52.1
50	52	1.5	70.0	60.3
60	60	1.5	75.0	61.5
65	70	2.0	80.0	63.3
80	85	2.0	90.0	70.3
100	104	2.0	100.0	88.5

90° Expanding Elbow

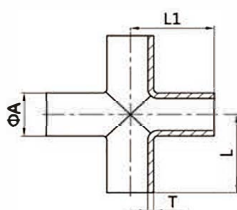
D.LS2WS-90°



Size	A	T	R	L
10	12	1.5	26.0	38
15	18	1.5	35.0	47
20	22	1.5	40.0	52
25	28	1.5	50.0	70
32	34	1.5	55.0	78
40	40	1.5	60.0	85
50	52	1.5	70.0	97
60	60	1.5	75.0	110
65	70	2.0	80.0	110
80	85	2.0	90.0	118
100	104	2.0	100.0	140
101	101.6	2.0	110.0	150

Cross

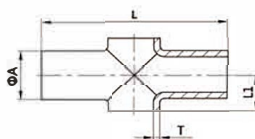
D.L9WWWW



Size	A	T	L1	L
10	12/13	1.5	26.0	26.0
15	18/19	1.5	35.0	35.0
20	22/23	1.5	40.0	40.0
25	28/29	1.5	50.0	50.0
32	34/35	1.5	55.0	55.0
40	40/41	1.5	60.0	60.0
50	52/53	1.5	70.0	70.0
65	70	2.0	80.0	80.0
80	85	2.0	90.0	90.0
100	104	2.0	100.0	100.0
125	129	2.0	187.5	187.5
150	154	2.0	225.0	225.0

Pulling Cross

D.ES9WWWW



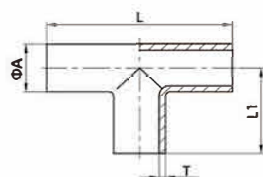
Size	A	T	L1	L
10	12/13	1.5	9.0	52
15	18/19	1.5	11.0	70
20	22/23	1.5	13.0	80
25	28/29	1.5	16.0	100
32	34/35	1.5	19.5	110
40	40/41	1.5	23.0	120
50	52/53	1.5	30.0	140
65	70	2.0	40.0	160
80	85	2.0	47.5	180
100	104	2.0	58.0	200
125	129	2.0	74.0	375
150	154	2.0	90.0	450





Tee

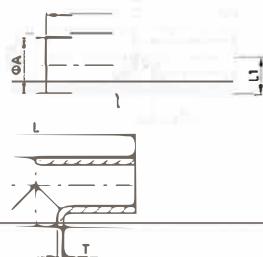
D.7W



Size	A	T	L1	L
10	12/13	1.5	26.0	52
15	18/19	1.5	35.0	70
20	22/23	1.5	40.0	80
25	28/29	1.5	50.0	100
32	34/35	1.5	55.0	110
40	40/41	1.5	60.0	120
50	52/53	1.5	70.0	140
65	70	2.0	80.0	160
80	85	2.0	90.0	180
100	104	2.0	100.0	200
125	129	2.0	187.5	375
150	154	2.0	225.0	450

Pulling Tee

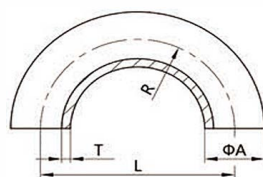
D.ES7WWW



Size	A	T	L1	L
10	12/13	1.5	9.0	52
15	18/19	1.5	11.0	70
20	22/23	1.5	13.0	80
25	28/29	1.5	16.0	100
32	34/35	1.5	19.5	110
40	40/41	1.5	23.0	120
50	52/53	1.5	30.0	140
65	70	2.0	40.0	160
80	85	2.0	47.5	180
100	104	2.0	58.0	200
125	129	2.0	74.0	375
150	154	2.0	90.0	450

180° Elbow

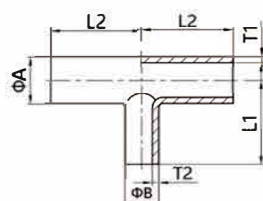
D.3WS-180°



Size	A	T	R	L
10	12/13	1.5	26.0	52
15	18/19	1.5	35.0	70
20	22/23	1.5	40.0	80
25	28/29	1.5	50.0	100
32	34/35	1.5	55.0	110
40	40/41	1.5	60.0	120
50	52/53	1.5	70.0	140
65	70	2.0	80.0	160
80	85	2.0	90.0	180
100	104	2.0	100.0	200
125	129	2.0	187.5	375
150	154	2.0	225.0	450

Reducing Tee

D.L7RW



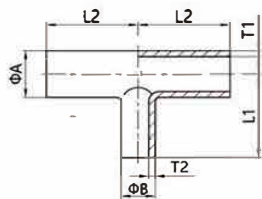
Size	A×T1	L1	B×T2	L2
20-15	22/23×1.5	40	18/19×1.5	40
25-15	28/29×1.5	50	12/13×1.5	50
25-20	28/29×1.5	50	18/19×1.5	50
32-20	34/35×1.5	55	22/23×1.5	55
32-25	34/35×1.5	55	28/29×1.5	55
40-25	40/41×1.5	60	28/29×1.5	60
40-32	40/41×1.5	60	34/35×1.5	60
50-25	52/53×1.5	70	28/29×1.5	70
50-32	52/53×1.5	70	34/35×1.5	70
50-40	52/53×1.5	70	40/41×1.5	70
65-25	70×2	80	28/29×1.5	80
65-32	70×2	80	34/35×1.5	80





Reducing Tee

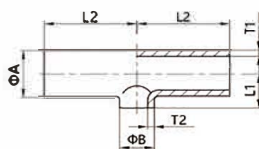
D.L7RW



Size	AxT1	L1	BxT2	L2
65-40	70x2	80	40/41x1.5	80
65-50	70x2	80	52/53x1.5	80
80-25	85x2	90	28/29x1.5	90
80-32	85x2	90	34/35x1.5	90
80-40	85x2	90	40/41x1.5	90
80-50	85x2	90	52/53x1.5	90
80-65	85x2	90	70x2	90
100-25	104x2	100	28/29x1.5	100
100-32	104x2	100	34/35x1.5	100
100-40	104x2	100	40/41x1.5	100
100-50	104x2	100	52/53x1.5	100
100-65	104x2	100	70x2	100
100-80	104x2	100	85x2	100
125-25	129x2	187.5	28/29x1.5	187.5
125-32	129x2	187.5	34/35x1.5	187.5
125-40	129x2	187.5	40/41x1.5	187.5
125-50	129x2	187.5	52/53x1.5	187.5
125-65	129x2	187.5	70x2	187.5
125-80	129x2	187.5	85x2	187.5
125-100	129x2	187.5	104x2	187.5
150-25	154x2	225.0	28/29x1.5	225.0
150-32	154x2	225.0	34/35x1.5	225.0
150-40	154x2	225.0	40/41x1.5	225.0
150-50	154x2	225.0	52/53x1.5	225.0
150-65	154x2	225.0	70x2	225.0
150-80	154x2	225.0	85x2	225.0
150-100	154x2	225.0	104x2	225.0
150-125	154x2	225.0	129x2	225.0
200-25	204x2	300.0	28/29x1.5	300.0
200-32	204x2	300.0	34/35x1.5	300.0
200-40	204x2	300.0	40/41x1.5	300.0
200-50	204x2	300.0	52/53x1.5	300.0
200-65	204x2	300.0	70x2	300.0
200-80	204x2	300.0	85x2	300.0
200-100	204x2	300.0	104x2	300.0
200-125	204x2	300.0	129x2	300.0
200-150	204x2	300.0	154x2	300.0

Pull-Type Reducer Tee

D.RS7WWW



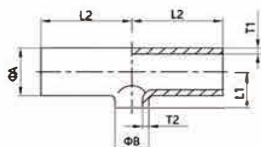
Size	AxT1	L1	BxT2	L2
20-15	22/23x1.5	13.0	18/19x1.5	40
25-15	28/29x1.5	17.0	12/13x1.5	50
25-20	28/29x1.5	17.0	18/19x1.5	50
32-20	34/35x1.5	19.5	22/23x1.5	55
32-25	34/35x1.5	19.5	28/29x1.5	55
40-25	40/41x1.5	22.5	28/29x1.5	60
40-32	40/41x1.5	22.5	34/35x1.5	60
50-25	52/53x1.5	29.5	28/29x1.5	70
50-32	52/53x1.5	29.5	34/35x1.5	70
50-40	52/53x1.5	29.5	40/41x1.5	70
65-25	70x2	39.0	28/29x1.5	80
65-32	70x2	39.0	34/35x1.5	80





Pull-Type Reducer Tee

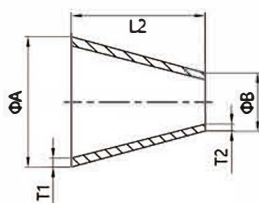
D.RS7WWW



Size	A×T1	L1	B×T2	L2
65-40	70×2	39.0	40/41×1.5	80
65-50	70×2	39.0	52/53×1.5	80
80-25	85×2	46.5	28/29×1.5	90
80-32	85×2	46.5	34/35×1.5	90
80-40	85×2	46.5	40/41×1.5	90
80-50	85×2	46.5	52/53×1.5	90
80-65	85×2	46.5	70×2	90
100-25	104×2	56.0	28/29×1.5	100
100-32	104×2	56.0	34/35×1.5	100
100-40	104×2	56.0	40/41×1.5	100
100-50	104×2	56.0	52/53×1.5	100
100-65	104×2	56.0	70×2	100
100-80	104×2	56.0	85×2	100
125-25	129×2	68.5	28/29×1.5	187.5
125-32	129×2	68.5	34/35×1.5	187.5
125-40	129×2	68.5	40/41×1.5	187.5
125-50	129×2	68.5	52/53×1.5	187.5
125-65	129×2	68.5	70×2	187.5
125-80	129×2	68.5	85×2	187.5
125-100	129×2	68.5	104×2	187.5
150-25	154×2	81.0	28/29×1.5	225.0
150-32	154×2	81.0	34/35×1.5	225.0
150-40	154×2	81.0	40/41×1.5	225.0
150-50	154×2	81.0	52/53×1.5	225.0
150-65	154×2	81.0	70×2	225.0
150-80	154×2	81.0	85×2	225.0
150-100	154×2	81.0	104×2	225.0
150-125	154×2	81.0	129×2	225.0
200-25	204×2	106.0	28/29×1.5	300.0
200-32	204×2	106.0	34/35×1.5	300.0
200-40	204×2	106.0	40/41×1.5	300.0
200-50	204×2	106.0	52/53×1.5	300.0
200-65	204×2	106.0	70×2	300.0
200-80	204×2	106.0	85×2	300.0
200-100	204×2	106.0	104×2	300.0
200-125	204×2	106.0	129×2	300.0
200-150	204×2	106.0	154×2	300.0

Concentric Reducer

D.L31



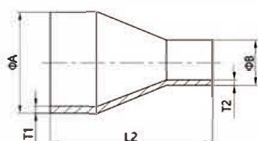
Size	A	T1	B×T2	L2
15-10	18/19	1.5	12/13×1.5	11
20-10	22/23	1.5	12/13×1.5	18
20-15	22/23	1.5	18/19×1.5	7
25-10	28/29	1.5	12/13×1.5	28
25-15	28/29	1.5	18/19×1.5	18
25-20	28/29	1.5	22/23×1.5	11
32-15	34/35	1.5	22/23×1.5	28
32-20	34/35	1.5	22/23×1.5	18
32-25	34/35	1.5	28/29×1.5	11
40-20	40/41	1.5	22/23×1.5	33
40-25	40/41	1.5	28/29×1.5	22
40-32	40/41	1.5	34/35×1.5	11





Expanding Concentric Reducer

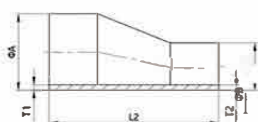
D.EL31



Size	A×T1	B×T2	L2
15-10	18×1.5	12×1.5	45
20-10	22×1.5	12×1.5	53
20-15	22×1.5	18×1.5	60
25-15	28×1.5	18×1.5	60
25-20	28×1.5	22×1.5	60
32-20	34×1.5	22×1.5	80
32-25	34×1.5	28×1.5	80
40-20	40×1.5	22×1.5	102
40-25	40×1.5	28×1.5	88
40-32	40×1.5	34×1.5	88
50-25	52×1.5	28×1.5	115
50-32	52×1.5	34×1.5	113
50-40	52×1.5	40×1.5	113
65-25	70×2	28×1.5	125
65-32	70×2	34×1.5	120
65-40	70×2	40×1.5	130
65-50	70×2	52×1.5	130
80-40	85×2	40×1.5	142
80-50	85×2	52×1.5	120
80-65	85×2	70×2	120
100-40	104×2	40×1.5	166
100-50	104×2	52×1.5	166
100-65	104×2	70×2	137
100-80	104×2	85×2	120
101-50	101.6×2	52×1.5	166
101-65	101.6×2	70×2	137
101-80	101.6×2	85×2	120
125-80	129×2	85×2	150
125-100	129×2	104×2	150

Expanding Eccentric Reducer

D.EL32



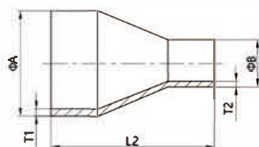
Size	A×T1	B×T2	L2
15-10	18×1.5	12×1.5	45
20-10	22×1.5	12×1.5	53
20-15	22×1.5	18×1.5	60
25-15	28×1.5	18×1.5	60
25-20	28×1.5	22×1.5	60
32-20	34×1.5	22×1.5	80
32-25	34×1.5	28×1.5	80
40-20	40×1.5	22×1.5	102
40-25	40×1.5	28×1.5	88
40-32	40×1.5	34×1.5	88
50-25	52×1.5	28×1.5	115
50-32	52×1.5	34×1.5	113
50-40	52×1.5	40×1.5	113
65-25	70×2	28×1.5	125
65-32	70×2	34×1.5	120
65-40	70×2	40×1.5	130
65-50	70×2	52×1.5	130
80-40	85×2	40×1.5	142
80-50	85×2	52×1.5	120
80-65	85×2	70×2	120
100-40	104×2	40×1.5	166
100-50	104×2	52×1.5	166
100-65	104×2	70×2	137
100-80	104×2	85×2	120
101-50	101.6×2	52×1.5	166
101-65	101.6×2	70×2	137
101-80	101.6×2	85×2	120
125-80	129×2	85×2	150
125-100	129×2	104×2	150





Expanding Concentric Reducer

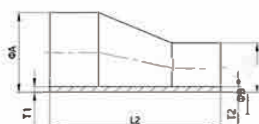
D.EL31



Size	A×T1	B×T2	L2
15-10	18×1.5	12×1.5	45
20-10	22×1.5	12×1.5	53
20-15	22×1.5	18×1.5	60
25-15	28×1.5	18×1.5	60
25-20	28×1.5	22×1.5	60
32-20	34×1.5	22×1.5	80
32-25	34×1.5	28×1.5	80
40-20	40×1.5	22×1.5	102
40-25	40×1.5	28×1.5	88
40-32	40×1.5	34×1.5	88
50-25	52×1.5	28×1.5	115
50-32	52×1.5	34×1.5	113
50-40	52×1.5	40×1.5	113
65-25	70×2	28×1.5	125
65-32	70×2	34×1.5	120
65-40	70×2	40×1.5	130
65-50	70×2	52×1.5	130
80-40	85×2	40×1.5	142
80-50	85×2	52×1.5	120
80-65	85×2	70×2	120
100-40	104×2	40×1.5	166
100-50	104×2	52×1.5	166
100-65	104×2	70×2	137
100-80	104×2	85×2	120
101-50	101.6×2	52×1.5	166
101-65	101.6×2	70×2	137
101-80	101.6×2	85×2	120
125-80	129×2	85×2	150
125-100	129×2	104×2	150

Expanding Eccentric Reducer

D.EL32



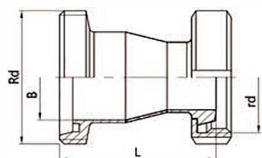
Size	A×T1	B×T2	L2
15-10	18×1.5	12×1.5	45
20-10	22×1.5	12×1.5	53
20-15	22×1.5	18×1.5	60
25-15	28×1.5	18×1.5	60
25-20	28×1.5	22×1.5	60
32-20	34×1.5	22×1.5	80
32-25	34×1.5	28×1.5	80
40-20	40×1.5	22×1.5	102
40-25	40×1.5	28×1.5	88
40-32	40×1.5	34×1.5	88
50-25	52×1.5	28×1.5	115
50-32	52×1.5	34×1.5	113
50-40	52×1.5	40×1.5	113
65-25	70×2	28×1.5	125
65-32	70×2	34×1.5	120
65-40	70×2	40×1.5	130
65-50	70×2	52×1.5	130
80-40	85×2	40×1.5	142
80-50	85×2	52×1.5	120
80-65	85×2	70×2	120
100-40	104×2	40×1.5	166
100-50	104×2	52×1.5	166
100-65	104×2	70×2	137
100-80	104×2	85×2	120
101-50	101.6×2	52×1.5	166
101-65	101.6×2	70×2	137
101-80	101.6×2	85×2	120
125-80	129×2	85×2	150
125-100	129×2	104×2	150





Union-"A"Type Concentric Reducer

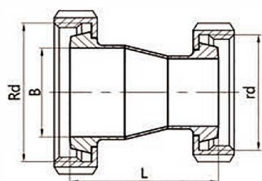
D.UC31



Size	Rd	B	rd	L
20-15	44	20	34	48
25-20	52	26	44	58
32-20	58	32	44	72
32-25	58	32	52	65
40-20	65	38	44	84
40-25	65	38	52	77
40-32	65	38	58	69
50-25	78	50	52	101
50-32	78	50	58	93
50-40	78	50	65	83
65-25	95	66	52	140
65-32	95	66	58	127
65-40	95	66	65	117
65-50	95	66	78	97
80-40	110	81	65	159
80-50	110	81	78	129
80-65	110	81	95	104
100-50	130	100	78	172
100-65	130	100	95	150
100-80	130	100	110	125

Union-"B"Type Concentric Reducer

D.UE31



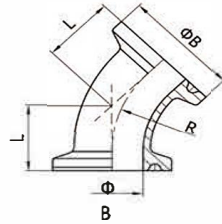
Size	Rd	B	rd	L
20-15	44	20	34	42
25-20	52	26	44	51
32-20	58	32	44	65
32-25	58	32	52	58
40-20	65	38	44	77
40-25	65	38	52	70
40-32	65	38	58	62
50-25	78	50	52	94
50-32	78	50	58	86
50-40	78	50	65	76
65-25	95	66	52	132
65-32	95	66	58	119
65-40	95	66	65	109
65-50	95	66	78	89
80-40	110	81	65	141
80-50	110	81	78	121
80-65	110	81	95	96
100-50	130	100	78	162
100-65	130	100	95	140
100-80	130	100	110	115





45° Elbow With Clamp

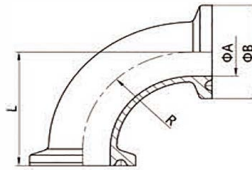
S.2KMP



Size	A	B	R	L
25	22.5	50.5	37.50	28.23
32	29.5	50.5	48.00	32.58
38	35.5	50.5	57.00	36.31
51	48.5	64.0	76.50	44.39
63.5	60.5	77.5	95.25	52.15
76	72.9	91.0	114.15	59.98
101.6	97.6	119.0	152.10	78.80
104	100.0	119.0	152.10	78.80

90° Elbow With Clamp

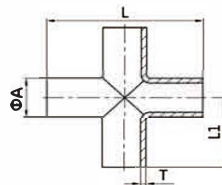
S.2CMP



Size	A	T	R	L
25	22.5	50.5	37.50	50.20
32	29.5	50.5	48.00	60.70
38	35.5	50.5	57.00	69.70
51	48.5	64.0	76.50	89.20
63.5	60.5	77.5	95.25	107.95
76	72.9	91.0	114.15	126.85
101.6	97.6	119.0	152.10	167.90
104	100.0	119.0	152.10	167.90

Cross

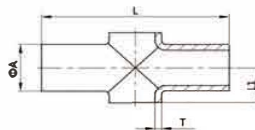
S.L9WWWW



Size	A	T	L1	L
25	25	1.25	55	110
32	32	1.25	62	124
38	38	1.25	70	140
51	51	1.25	82	164
63.5	63.5	1.50	105	210
76	76.1	1.60	110	220
101.6	101.6	2.00	150	300
104	104.0	2.00	150	300

Pulling Cross

S.ES9WWWW



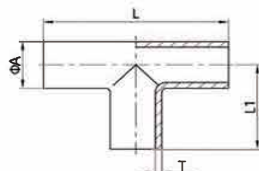
Size	A	T	L1	L
25	25	1.25	15	110
32	32	1.25	19	124
38	38	1.25	21	140
51	51	1.25	29	164
63.5	63.5	1.50	36	210
76	76.1	1.60	44	220
101.6	101.6	2.00	58	300
104	104.0	2.00	58	300





Long Tee

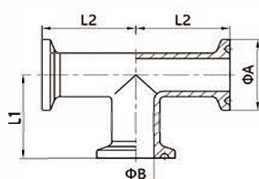
S.7W



Size	A	T	L1	L
25	25	1.25	55	110
32	32	1.25	62	124
38	38	1.25	70	140
51	51	1.25	82	164
63.5	63.5	1.50	105	210
76	76.1	1.60	110	220
101.6	101.6	2.00	150	300
104	104.0	2.00	150	300

Long Tee With Clamp

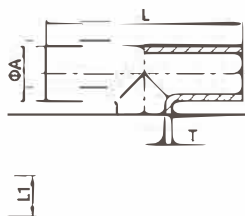
S.7MP



Size	A	B	L1	L2
25	50.5	22.5	67.7	67.7
32	50.5	29.5	74.7	74.7
38	50.5	35.5	82.7	82.7
51	64.0	48.5	94.7	94.7
63.5	77.5	60.5	117.7	117.7
76	91.0	72.9	127.7	127.7
101.6	119.0	97.6	165.8	165.8
104	119.0	100.0	165.8	165.8

Pulling Tee

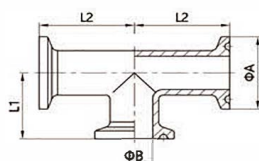
S.ES7WWW



Size	A	T	L1	L
25	25	1.25	15	110
32	32	1.25	19	124
38	38	1.25	21	140
51	51	1.25	29	164
63.5	63.5	1.50	36	210
76	76.1	1.60	44	220
101.6	101.6	2.00	58	300
104	104.0	2.00	58	300

Pulling Tee With Clamp

S.7RMP



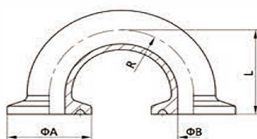
Size	A	B	L1	L2
25	50.5	22.5	27.7	67.7
32	50.5	29.5	31.7	74.7
38	50.5	35.5	33.7	82.7
51	64.0	48.5	41.7	94.7
63.5	77.5	60.5	48.7	117.7
76	91.0	72.9	56.7	127.7
101.6	119.0	97.6	73.8	165.8
104	119.0	100.0	73.8	165.8





180° Clamp Elbow

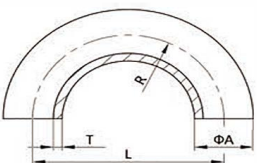
S.3CMP



Size	A	B	R	L
25	50.5	22.5	37.50	50.2
32	50.5	29.5	48.00	60.7
38	50.5	35.5	57.00	69.7
51	64.0	48.5	76.50	89.2
63.5	77.5	60.5	95.25	107.95
76	91.0	72.9	114.15	126.85
101.6	119.0	97.6	152.10	167.9
104	119.0	100.0	152.10	167.9

180° Elbow

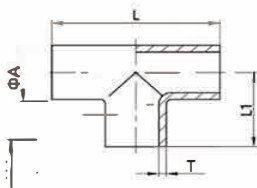
S.3WS-180°



Size	A	T	R	L
25	25	1.25	37.50	75.0
32	32	1.25	48.00	96.0
38	38	1.25	57.00	114.0
51	51	1.25	76.50	153.0
63.5	63.5	1.50	95.25	190.5
76	76.1	1.60	114.15	228.3
101.6	101.6	2.00	152.10	304.2
104	104.0	2.00	152.10	304.2

Short Tee

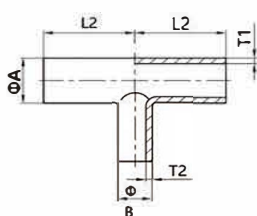
S.7SW



Size	A	T	R	L
25	25	1.25	30	60
32	32	1.25	35	70
38	38	1.25	40	80
51	51	1.25	55	110
63.5	63.5	1.50	60	120
76	76.1	1.60	65	130
101.6	101.6	2.00	85	170
104	104.0	2.00	85	170

Reducing Tee

S.L7RW



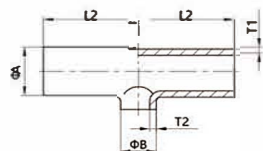
Size	A	T1	B×T2	L2
38-25	38	1.5	25×1.5	70
51-25	51	1.5	25×1.5	82
51-38	51	1.5	38×1.5	82
63.5-25	63.5	1.5	25×1.5	105
63.5-38	63.5	1.5	38×1.5	105
63.5-51	63.5	1.5	51×1.5	105
76-38	76.1	2.0	38×1.5	110
76-51	76.1	2.0	51×1.5	110
76-63.5	76.1	2.0	63.5×1.5	110
101.6-51	101.6	2.0	51×1.5	150
101.6-63.5	101.6	2.0	63.5×1.5	150
101.6-76	101.6	2.0	76.1×2.0	150





Pull-Type Reducer Tee

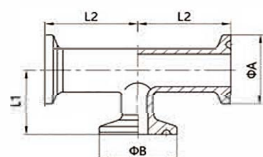
S.RS7WWW



Size	A	T1	B×T2	L2
38-25	38	1.5	25×1.5	70
51-25	51	1.5	25×1.5	82
51-38	51	1.5	38×1.5	82
63.5-25	63.5	1.5	25×1.5	105
63.5-38	63.5	1.5	38×1.5	105
63.5-51	63.5	1.5	51×1.5	105
76-25	76.1	2.0	25×1.5	110
76-38	76.1	2.0	38×1.5	110
76-51	76.1	2.0	51×1.5	110
76-63.5	76.1	2.0	63.5×1.5	110
101.6-25	101.6	2.0	25×1.5	150
101.6-38	101.6	2.0	38×1.5	150
101.6-51	101.6	2.0	51×1.5	150
101.6-63.5	101.6	2.0	63.5×1.5	150
101.6-76	101.6	2.0	76.1×2.0	150
104-25	104.0	2.0	25×1.5	150
104-38	104.0	2.0	38×1.5	150
104-51	104.0	2.0	51×1.5	150
104-63.5	104.0	2.0	63.5×1.5	150
104-76	104.0	2.0	76.1×2.0	150

Pull-Type Clamp Reducer Tee

S.7RWP



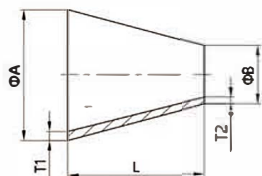
Size	A	L1	B	L2
38-25	50.5	33.7	50.5	82.7
51-25	64.0	41.7	50.5	94.7
51-38	64.0	41.7	50.5	94.7
63.5-25	77.5	48.7	50.5	117.7
63.5-38	77.5	48.7	50.5	117.7
63.5-51	77.5	48.7	64.0	117.7
76-25	91.0	56.7	50.5	122.7
76-38	91.0	56.7	50.5	122.7
76-51	91.0	56.7	64.0	122.7
76-63.5	91.0	56.7	77.5	122.7
101.6-25	119.0	73.8	50.5	165.8
101.6-38	119.0	73.8	50.5	165.8
101.6-51	119.0	73.8	64.0	165.8
101.6-63.5	119.0	73.8	77.5	165.8
101.6-76	119.0	73.8	91.0	165.8
104-25	119.0	73.8	50.5	165.8
104-38	119.0	73.8	50.5	165.8
104-51	119.0	73.8	64.0	165.8
104-63.5	119.0	73.8	77.5	165.8
104-76	119.0	73.8	91.0	165.8





Concentric Reducer

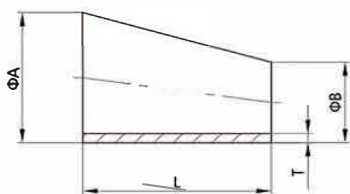
S.L31



Size	A	T1	B×T2	L
25-19	25	1.25	19×1.25	11
32-19	32	1.25	19×1.25	22
38-19	38	1.25	19×1.25	35
51-19	51	1.25	19×1.25	49
32-25	32	1.25	25×1.25	23
38-25	38	1.25	25×1.25	39
38-32	38	1.25	32×1.25	28
51-25	51	1.25	25×1.25	57
51-32	51	1.25	32×1.25	49
51-38	51	1.25	38×1.25	39
63.5-25	63.5	1.50	25×1.25	74
63.5-32	63.5	1.50	32×1.25	67
63.5-38	63.5	1.50	38×1.25	57
63.5-51	63.5	1.50	51×1.25	39
76-25	76.1	1.60	25×1.25	92
76-32	76.1	1.60	32×1.25	83
76-38	76.1	1.60	38×1.25	74
76-51	76.1	1.60	51×1.25	57
76-63.5	76.1	1.60	63.5×1.50	39
101.6-38	101.6	2.00	38.0×1.25	101
101.6-51	101.6	2.00	51.0×1.25	95
101.6-63.5	101.6	2.00	63.5×1.50	78
101.6-76	101.6	2.00	76.1×1.60	60
104-51	104.0	2.00	51.0×1.25	95
104-63.5	104.0	2.00	63.5×1.50	78
104-76	104.0	2.00	76.1×1.60	60

Eccentric Reducer

S.L32



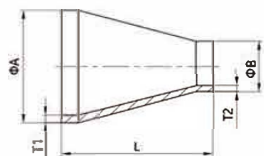
Size	A	T	B	L
38-25	38	1.5	25	46
51-25	51	1.5	25	68
51-38	51	1.5	38	47
63.5-25	63.5	1.5	25	92
63.5-38	63.5	1.5	38	70
63.5-51	63.5	1.5	51	44
76-25	76.1	2.0	25	117
76-38	76.1	2.0	38	92
76-51	76.1	2.0	51	68
76-63.5	76.1	2.0	63.5	47
101.6-51	101.6	2.0	51.0	117
101.6-63.5	101.6	2.0	63.5	94
101.6-76	101.6	2.0	76.1	74
104-51	104.0	2.0	51.0	117
104-63.5	104.0	2.0	63.5	94
104-76	104.0	2.0	76.1	74





Concentric Reducer With Straight-End

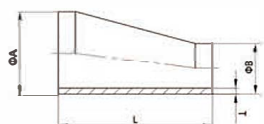
S.SL31



Size	A	T1	B×T2	L
25-19	25	1.25	19×1.25	23
32-19	32	1.25	19×1.25	35
38-19	38	1.25	19×1.25	41
51-19	51	1.25	19×1.25	53
32-25	32	1.25	25×1.25	23
38-25	38	1.25	25×1.25	39
38-32	38	1.25	32×1.25	28
51-25	51	1.25	25×1.25	57
51-32	51	1.25	32×1.25	49
51-38	51	1.25	38×1.25	39
63.5-25	63.5	1.50	25×1.25	74
63.5-32	63.5	1.50	32×1.25	67
63.5-38	63.5	1.50	38×1.25	57
63.5-51	63.5	1.50	51×1.25	39
76-25	76.1	1.60	25×1.25	92
76-32	76.1	1.60	32×1.25	83
76-38	76.1	1.60	38×1.25	74
76-51	76.1	1.60	51×1.25	57
76-63.5	76.1	1.60	63.5×1.50	39
101.6-38	101.6	2.00	38.0×1.25	101
101.6-51	101.6	2.00	51.0×1.25	95
101.6-63.5	101.6	2.00	63.5×1.50	78
101.6-76	101.6	2.00	76.1×1.60	60
104-51	104.0	2.00	51.0×1.25	95
104-63.5	104.0	2.00	63.5×1.50	78
104-76	104.0	2.00	76.1×1.60	60

Eccentric Reducer With Straight-End

S.SL32



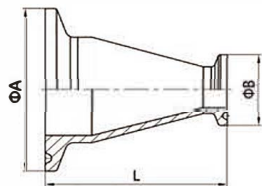
Size	A	T	B	L
38-25	38	1.5	25	46
51-25	51	1.5	25	68
51-38	51	1.5	38	47
63.5-25	63.5	1.5	25	92
63.5-38	63.5	1.5	38	70
63.5-51	63.5	1.5	51	44
76-25	76.1	2.0	25	117
76-38	76.1	2.0	38	92
76-51	76.1	2.0	51	68
76-63.5	76.1	2.0	63.5	47
101.6-51	101.6	2.0	51.0	117
101.6-63.5	101.6	2.0	63.5	94
101.6-76	101.6	2.0	76.1	74
104-51	104.0	2.0	51.0	117
104-63.5	104.0	2.0	63.5	94
104-76	104.0	2.0	76.1	74





Concentric Reducer With Clamp

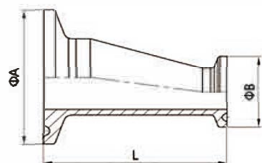
S.31CMP



Size	A	B	L
38-25	50.5	50.5	64.4
51-25	64.0	50.5	82.4
51-38	64.0	50.5	64.4
63.5-25	77.5	50.5	99.4
63.5-38	77.5	50.5	82.4
63.5-51	77.5	64.0	64.4
76-25	91.0	50.5	117.4
76-38	91.0	50.5	99.4
76-51	91.0	64.0	82.4
76-63.5	91.0	77.5	66.4
101.6-51	119.0	64.0	123.5
101.6-63.5	119.0	77.5	106.5
101.6-76	119.0	91.0	88.5
104-51	119.0	64.0	123.5
104-63.5	119.0	77.5	106.5
104-76	119.0	91.0	88.5

Eccentric Reducer With Clamp

S.32CMP



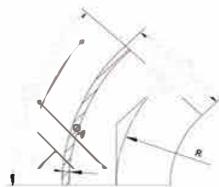
Size	A	B	L
38-25	50.5	50.5	71.4
51-25	64.0	50.5	93.4
51-38	64.0	50.5	72.4
63.5-25	77.5	50.5	117.4
63.5-38	77.5	50.5	95.4
63.5-51	77.5	64.0	79.4
76-25	91.0	50.5	131.4
76-38	91.0	50.5	117.4
76-51	91.0	64.0	93.4
76-63.5	91.0	77.5	72.4
101.6-51	119.0	64.0	145.5
101.6-63.5	119.0	77.5	115.5
101.6-76	119.0	91.0	102.5
104-51	119.0	64.0	145.5
104-63.5	119.0	77.5	115.5
104-76	119.0	91.0	102.5





45° Elbow Without Straight-End

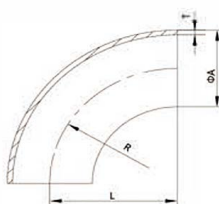
A.2WK-45°



Size	A	T	R	L
1/2"	12.7	1.65	19.05	7.90
3/4"	19.05	1.65	28.58	11.84
1"	25.4	1.65	38.10	15.80
1 1/4"	31.75	1.65	47.63	19.73
1 1/2"	38.1	1.65	57.15	23.80
2"	50.8	1.65	76.20	31.75
2 1/2"	63.5	1.65	95.25	39.60
3"	76.2	1.65	114.30	47.60
4"	101.6	2.11	152.40	63.50
5"	127.0	2.11	190.50	78.90
6"	152.4	2.77	228.60	94.70

90° Elbow Without Straight-End

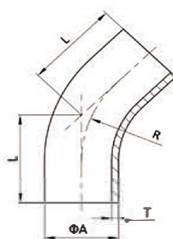
A.2WK-90°



Size	A	T	R	L
1/2"	12.7	1.65	19.05	19.05
3/4"	19.05	1.65	28.58	28.58
1"	25.4	1.65	38.10	38.10
1 1/4"	31.75	1.65	47.63	47.63
1 1/2"	38.1	1.65	57.15	57.15
2"	50.8	1.65	76.20	76.20
2 1/2"	63.5	1.65	95.25	95.25
3"	76.2	1.65	114.30	114.30
4"	101.6	2.11	152.40	152.40
5"	127.0	2.11	190.50	190.50
6"	152.4	2.77	228.60	228.60

45° Elbow With Straight-End

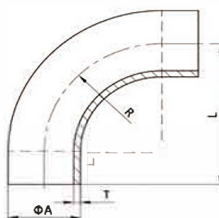
A.L2WS-45°



Size	A	T	R	L
1/2"	12.7	1.65	19.05	30.2
3/4"	19.05	1.65	28.58	30.2
1"	25.4	1.65	38.10	30.20
1 1/2"	38.1	1.65	57.15	41.30
2"	50.8	1.65	76.20	58.70
2 1/2"	63.5	1.65	95.25	76.20
3"	76.2	1.65	114.30	93.70
4"	101.6	2.11	152.40	122.20
6"	152.4	2.77	228.60	158.20

90° Elbow With Straight-End

A.L2WS-90°



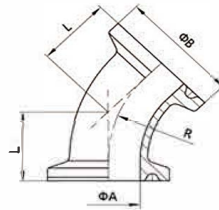
Size	A	T	R	L
1/2"	12.7	1.65	19.05	45.0
3/4"	19.05	1.65	28.58	60.0
1"	25.4	1.65	38.10	52.4
1 1/2"	38.1	1.65	57.15	74.6
2"	50.8	1.65	76.20	103.2
2 1/2"	63.5	1.65	95.25	131.8
3"	76.2	1.65	114.30	160.3
4"	101.6	2.11	152.40	211.1
6"	152.4	2.77	228.60	292.1





45° Elbow With Clamp

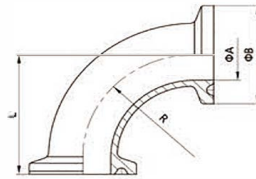
A.2KMP



Size	A	B	R	L
1/2"	9.4	25.2	19.05	20.60
3/4"	15.75	25.2	28.58	24.54
1"	22.1	50.5	38.10	28.50
1 1/4"	28.45	50.5	47.63	32.43
1 1/2"	34.8	50.5	57.15	36.50
2"	47.5	64.0	76.20	44.45
2 1/2"	60.2	77.5	95.25	52.30
3"	72.9	91.0	114.30	60.30
4"	97.38	119.0	152.40	79.30

90° Elbow With Clamp

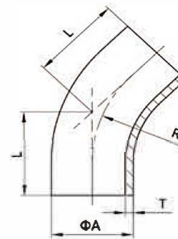
A.2CMP



Size	A	B	R	L
1/2"	9.4	25.2	19.05	31.75
3/4"	15.75	25.2	28.58	41.28
1"	22.1	50.5	38.10	50.80
1 1/4"	28.45	50.5	47.63	60.30
1 1/2"	34.8	50.5	57.15	69.90
2"	47.5	64.0	76.20	88.90
2 1/2"	60.2	77.5	95.25	107.95
3"	72.9	91.0	114.30	127.00
4"	97.38	119.0	152.40	168.20

45° Expanding Elbow

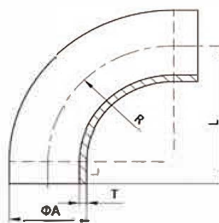
A.LS2WS-45°



Size	A	T	R	L
1"	25.4	1.6	38.1	40.77
1 1/2"	38.1	1.6	57.2	48.66
2"	50.8	1.6	76.2	61.55
2 1/2"	63.5	1.6	84.0	74.43
3"	76.2	1.6	96.0	85.32
4"	101.6	2.0	110.0	101.09

90° Expanding Elbow

A.LS2WS-90°



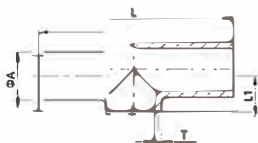
Size	A	T	R	L
1"	25.4	1.6	38.1	65
1 1/2"	38.1	1.6	57.15	85
2"	50.8	1.6	76.2	110
2 1/2"	63.5	1.6	95.75	135.3
3"	76.2	1.6	114.3	155.2
4"	101.6	2.0	152.4	195.0





Long Tee

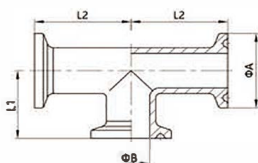
A.7W



Size	A	T	L1	L
1/2"	12.7	1.65	38.1	76.2
3/4"	19.05	1.65	47.6	95.2
1"	25.4	1.65	47.6	95.2
1 1/4"	31.75	1.65	50.8	101.6
1 1/2"	38.1	1.65	57.2	114.4
2"	50.8	1.65	76.2	152.4
2 1/2"	63.5	1.65	76.2	152.4
3"	76.2	1.65	82.6	165.2
4"	101.6	2.11	98.4	196.8

Long Tee With Clamp

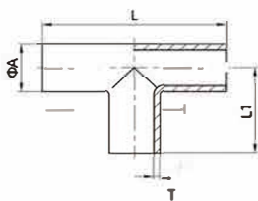
A.7MP



Size	A	B	L1	L2
1/2"	25.2	9.4	50.8	50.8
3/4"	25.2	15.75	60.3	60.3
1"	50.5	22.1	60.3	60.3
1 1/4"	50.5	28.45	63.5	63.5
1 1/2"	50.5	34.8	69.9	69.9
2"	60.4	47.5	88.9	88.9
2 1/2"	77.5	60.2	88.9	88.9
3"	91.0	72.9	95.3	95.3
4"	119.0	97.38	114.2	114.2

Pulling Tee

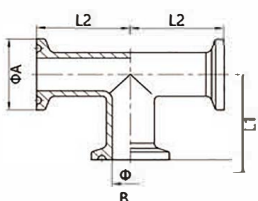
A.ES7WWW



Size	A	T	L1	L
1"	25.4	1.65	16	95.2
1 1/2"	38.1	1.65	22	114.4
2"	50.8	1.65	29	152.4
2 1/2"	63.5	1.65	35	152.4
3"	76.2	1.65	41	165.2
4"	101.6	2.11	54	196.8

Pulling Tee With Clamp

A.7RMP



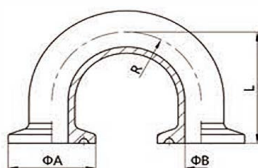
Size	A	B	L1	L2
1"	50.5	22.1	28.7	60.6
1 1/2"	50.5	34.8	34.7	69.9
2"	64.0	47.5	41.7	88.9
2 1/2"	77.5	60.2	47.7	88.9
3"	91.0	72.9	53.7	95.3
4"	119.0	97.38	66.7	114.2





180° Elbow With Clamp

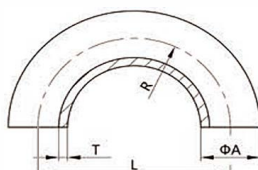
A.3CMP



Size	A	B	R	L
1"	22.1	50.5	38.1	50.8
1 1/2"	34.8	50.5	57.15	69.85
2"	47.5	64.0	76.2	88.9
2 1/2"	60.2	77.5	95.25	107.95
3"	72.9	91.0	114.30	127.0
4"	97.38	119.0	152.40	168.2

180° Elbow

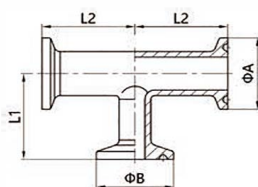
A.3WS-180°



Size	A	T	R	L
1"	25.4	1.65	38.10	76.20
1 1/4"	31.75	1.65	47.63	95.26
1 1/2"	38.1	1.65	57.15	114.30
2"	50.8	1.65	76.20	152.40
2 1/2"	63.5	1.65	95.25	190.50
3"	76.2	1.65	114.30	228.60
4"	101.6	2.11	152.40	304.80

Reducer Tee With Clamp

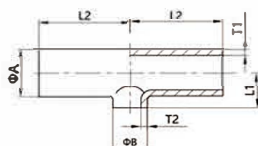
A.L7RMP



Size	A	B	L1	L2
1.5"-1.0"	50.5	50.5	66.68	69.85
2.0"-1.0"	64.0	50.5	73.00	88.90
2.0"-1.5"	64.0	50.5	76.20	88.90
2.5"-1.5"	77.5	50.5	82.55	88.90
2.5"-2.0"	77.5	64.0	95.25	88.90
3.0"-1.5"	91.0	50.5	88.90	95.25
3.0"-2.0"	91.0	64.0	101.60	95.25
3.0"-2.5"	91.0	77.5	92.25	95.25
4.0"-2.0"	119.0	64.0	114.30	114.20
4.0"-2.5"	119.0	77.5	107.95	114.20
4.0"-3.0"	119.0	91.0	107.95	114.20

Reducer Pulling Tee

A.RS7WWW



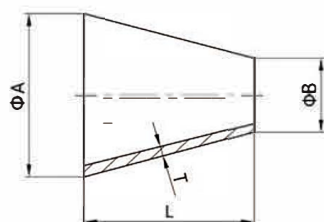
Size	A	T1	B×T2	L2
1.5"-1.0"	38.1	1.65	25.4×1.65	22
2.0"-1.0"	50.8	1.65	25.4×1.65	29
2.0"-1.5"	50.8	1.65	38.1×1.65	29
2.5"-1.0"	63.5	1.65	25.4×1.65	35
2.5"-1.5"	63.5	1.65	38.1×1.65	35
2.5"-2.0"	63.5	1.65	50.8×1.65	35
3.0"-1.5"	76.2	1.65	38.1×1.65	41
3.0"-2.0"	76.2	1.65	50.8×1.65	41
3.0"-2.5"	76.2	1.65	63.5×1.65	41
4.0"-2.0"	101.6	2.11	50.8×1.65	54
4.0"-2.5"	101.6	2.11	63.5×1.65	54
4.0"-3.0"	101.6	2.11	76.2×1.65	54





Concentric Reducer

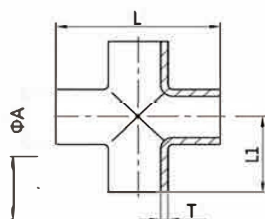
A.L31



Size	A	T1	B×T2	L
1.00"-0.50"	25.4	1.65	12.7×1.65	50.8
1.00"-0.75"	25.4	1.65	19.1×1.65	25.4
1.25"-0.50"	31.8	1.65	12.7×1.65	76.2
1.25"-0.75"	31.8	1.65	19.1×1.65	50.8
1.25"-1.00"	31.8	1.65	25.4×1.65	25.4
1.50"-0.50"	38.1	1.65	12.7×1.65	101.6
1.50"-0.75"	38.1	1.65	19.1×1.65	76.2
1.50"-1.00"	38.1	1.65	25.4×1.65	50.8
1.50"-1.25"	38.1	1.65	31.8×1.65	25.4
2.00"-0.50"	50.8	1.65	12.7×1.65	152.4
2.00"-0.75"	50.8	1.65	19.1×1.65	127.0
2.00"-1.00"	50.8	1.65	25.4×1.65	101.6
2.00"-1.25"	50.8	1.65	31.8×1.65	76.2
2.00"-1.50"	50.8	1.65	38.1×1.65	50.8
2.50"-0.75"	63.5	1.65	19.1×1.65	177.8
2.50"-1.00"	63.5	1.65	25.4×1.65	152.4
2.50"-1.25"	63.5	1.65	31.8×1.65	127.0
2.50"-1.50"	63.5	1.65	38.1×1.65	101.6
2.50"-2.00"	63.5	1.65	50.8×1.65	50.8
3.00"-1.00"	76.2	1.65	25.4×1.65	203.2
3.00"-1.25"	76.2	1.65	31.8×1.65	177.8
3.00"-1.50"	76.2	1.65	38.1×1.65	152.4
3.00"-2.00"	76.2	1.65	50.8×1.65	101.6
3.00"-2.50"	76.2	1.65	63.5×1.65	50.8
4.00"-1.00"	101.6	2.11	25.4×1.65	304.8
4.00"-1.25"	101.6	2.11	31.8×1.65	279.4
4.00"-1.50"	101.6	2.11	38.1×1.65	254.0
4.00"-2.00"	101.6	2.11	50.8×1.65	203.2
4.00"-2.50"	101.6	2.11	63.5×1.65	152.4
4.00"-3.00"	101.6	2.11	76.2×1.65	101.6
5.00"-2.00"	127.0	2.11	50.8×1.65	152.4
5.00"-2.50"	127.0	2.11	63.5×1.65	127.0
5.00"-3.00"	127.0	2.11	76.2×1.65	101.6
5.00"-4.00"	127.0	2.11	101.6×2.11	50.8
6.00"-2.00"	152.4	2.77	50.8×1.65	203.2
6.00"-2.50"	152.4	2.77	63.5×1.65	177.8
6.00"-3.00"	152.4	2.77	76.2×1.65	152.4
6.00"-4.00"	152.4	2.77	101.6×2.11	101.6
6.00"-5.00"	152.4	2.77	127.0×2.11	50.8

Short Cross

A.9WWWW



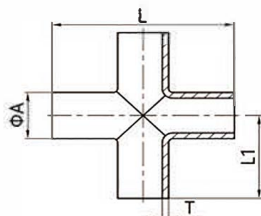
Size	A	T	L2	L
1"	25.4	1.65	28.6	57.2
1 1/2"	38.1	1.65	42.1	84.2
2"	50.8	1.65	52.4	104.8
2 1/2"	63.5	1.65	59.5	119.0
3"	76.2	1.65	65.9	131.8
4"	101.6	2.11	87.3	174.6





Long Cross

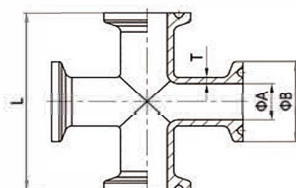
A.9W



Size	A	T	L1	L
1"	25.4	1.65	47.6	95.2
1 1/2"	38.1	1.65	57.2	114.4
2"	50.8	1.65	76.2	152.4
2 1/2"	63.5	1.65	76.2	152.4
3"	76.2	1.65	82.6	165.2
4"	101.8	2.11	98.4	196.8

Long Cross With Clamp

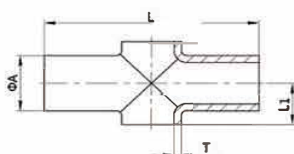
A.9MP



Size	A	T	B	L
1"	22.1	1.65	50.5	120.6
1 1/2"	34.8	1.65	50.5	139.8
2"	47.5	1.65	64.0	177.8
2 1/2"	60.2	1.65	77.5	177.8
3"	72.9	1.65	91.0	190.6
4"	97.38	2.11	119.0	228.4

Pulling Cross

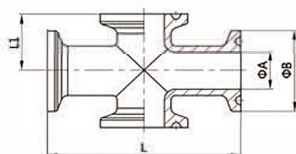
A.ES9WWWW



Size	A	T	L1	L
1"	25.4	1.65	16	95.2
1 1/2"	38.1	1.65	22	114.4
2"	50.8	1.65	29	152.4
2 1/2"	63.5	1.65	35	152.4
3"	76.2	1.65	41	165.2
4"	101.6	2.11	54	196.8

Pulling Cross With Clamp

A.ES9MP



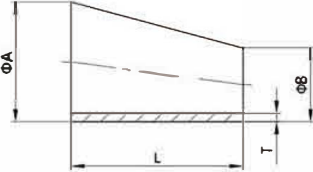

Size	A	L1	B	L
1"	22.1	28.7	50.5	120.6
1 1/2"	34.8	34.7	50.5	139.8
2"	47.5	41.7	64.0	177.8
2 1/2"	60.2	47.7	77.5	177.8
3"	72.9	53.7	91.0	190.6
4"	97.38	69.8	119.0	228.4





Eccentric Reducer


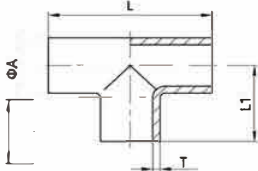
A.L32

Size	A	T1	B×T2	L
1.00"-0.50"	25.4	1.65	12.7×1.65	50.8
1.00"-0.75"	25.4	1.65	19.1×1.65	25.4
1.25"-0.50"	31.8	1.65	12.7×1.65	76.2
1.25"-0.75"	31.8	1.65	19.1×1.65	50.8
1.25"-1.00"	31.8	1.65	25.4×1.65	25.4
1.50"-0.50"	38.1	1.65	12.7×1.65	101.6
1.50"-0.75"	38.1	1.65	19.1×1.65	76.2
1.50"-1.00"	38.1	1.65	25.4×1.65	50.8
1.50"-1.25"	38.1	1.65	31.8×1.65	25.4
2.00"-0.50"	50.8	1.65	12.7×1.65	152.4
2.00"-0.75"	50.8	1.65	19.1×1.65	127.0
2.00"-1.00"	50.8	1.65	25.4×1.65	101.6
2.00"-1.25"	50.8	1.65	31.8×1.65	76.2
2.00"-1.50"	50.8	1.65	38.1×1.65	50.8
2.50"-0.75"	63.5	1.65	19.1×1.65	177.8
2.50"-1.00"	63.5	1.65	25.4×1.65	152.4
2.50"-1.25"	63.5	1.65	31.8×1.65	127.0
2.50"-1.50"	63.5	1.65	38.1×1.65	101.6
2.50"-2.00"	63.5	1.65	50.8×1.65	50.8
3.00"-1.00"	76.2	1.65	25.4×1.65	203.2
3.00"-1.25"	76.2	1.65	31.8×1.65	177.8
3.00"-1.50"	76.2	1.65	38.1×1.65	152.4
3.00"-2.00"	76.2	1.65	50.8×1.65	101.6
3.00"-2.50"	76.2	1.65	63.5×1.65	50.8
4.00"-1.00"	101.6	2.11	25.4×1.65	304.8
4.00"-1.25"	101.6	2.11	31.8×1.65	279.4
4.00"-1.50"	101.6	2.11	38.1×1.65	254.0
4.00"-2.00"	101.6	2.11	50.8×1.65	203.2
4.00"-2.50"	101.6	2.11	63.5×1.65	152.4
4.00"-3.00"	101.6	2.11	76.2×1.65	101.6
5.00"-2.00"	127.0	2.11	50.8×1.65	152.4
5.00"-2.50"	127.0	2.11	63.5×1.65	127.0
5.00"-3.00"	127.0	2.11	76.2×1.65	101.6
5.00"-4.00"	127.0	2.11	101.6×2.11	50.8
6.00"-2.00"	152.4	2.77	50.8×1.65	203.2
6.00"-2.50"	152.4	2.77	63.5×1.65	177.8
6.00"-3.00"	152.4	2.77	76.2×1.65	152.4
6.00"-4.00"	152.4	2.77	101.6×2.11	101.6
6.00"-5.00"	152.4	2.77	127.0×2.11	50.8

Short Tee

A.7WWW

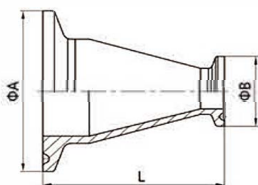
Size	A	T	L1	L
1/2"	12.7	1.65	23.8	47.6
3/4"	19.05	1.65	25.4	50.8
1"	25.4	1.65	28.6	57.2
1 1/4"	31.75	1.65	36.5	73.0
1 1/2"	38.1	1.65	42.1	84.2
2"	50.8	1.65	52.4	104.8
2 1/2"	63.5	1.65	59.5	119.0
3"	76.2	1.65	65.9	131.8
4"	101.6	2.11	87.3	174.6





Concentric Reducer With Clamp

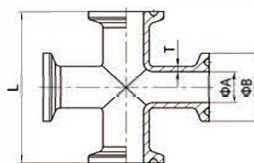
A.31CMP



Size	A	B	L
1.00"-0.50"	50.5	25.2	76.2
1.00"-0.75"	50.5	25.2	50.8
1.25"-0.50"	50.5	25.2	101.6
1.25"-0.75"	50.5	25.2	76.2
1.25"-1.00"	50.5	50.5	50.8
1.50"-0.50"	50.5	25.2	127.0
1.50"-0.75"	50.5	25.2	101.6
1.50"-1.00"	50.5	50.5	76.2
1.50"-1.25"	50.5	50.5	50.8
2.00"-0.50"	64.0	25.2	177.8
2.00"-0.75"	64.0	25.2	152.4
2.00"-1.00"	64.0	50.5	127.0
2.00"-1.25"	64.0	50.5	101.6
2.00"-1.50"	64.0	50.5	76.2
2.50"-0.75"	77.5	25.2	203.2
2.50"-1.00"	77.5	50.5	177.8
2.50"-1.25"	77.5	50.5	152.4
2.50"-1.50"	77.5	50.5	127.0
2.50"-2.00"	77.5	64.0	76.2
3.00"-1.00"	91.0	50.5	228.6
3.00"-1.25"	91.0	50.5	203.2
3.00"-1.50"	91.0	50.5	177.8
3.00"-2.00"	91.0	64.0	127.0
3.00"-2.50"	91.0	77.5	76.2
4.00"-1.00"	119.0	50.5	333.3
4.00"-1.25"	119.0	50.5	307.9
4.00"-1.50"	119.0	50.5	282.5
4.00"-2.00"	119.0	64.0	231.7
4.00"-2.50"	119.0	77.5	180.9
4.00"-3.00"	119.0	91.0	130.1
5.00"-2.00"	155.0	64.0	180.9
5.00"-2.50"	155.0	77.5	155.5
5.00"-3.00"	155.0	91.0	130.1
5.00"-4.00"	155.0	119.0	82.4
6.00"-2.00"	166.8	64.0	231.7
6.00"-2.50"	166.8	77.5	206.3
6.00"-3.00"	166.8	91.0	180.9
6.00"-4.00"	166.8	119.0	133.2
6.00"-5.00"	166.8	155.0	82.4

Short Cross With Clamp

A.9WWWWMP



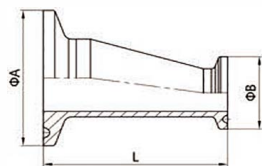
Size	A	T	B	L
1"	22.1	1.65	50.5	82.6
1 1/2"	34.8	1.65	50.5	109.6
2"	47.5	1.65	64.0	130.2
2 1/2"	60.2	1.65	77.5	144.4
3"	72.9	1.65	91.0	157.2
4"	97.38	2.11	119.0	206.2





Eccentric Reducer With Clamp

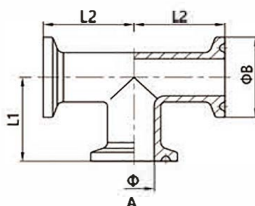
S.32CMP



Size	A	B	L
1.00"-0.50"	50.5	25.2	76.2
1.00"-0.75"	50.5	25.2	50.8
1.25"-0.50"	50.5	25.2	101.6
1.25"-0.75"	50.5	25.2	76.2
1.25"-1.00"	50.5	50.5	50.8
1.50"-0.50"	50.5	25.2	127.0
1.50"-0.75"	50.5	25.2	101.6
1.50"-1.00"	50.5	50.5	76.2
1.50"-1.25"	50.5	50.5	50.8
2.00"-0.50"	64.0	25.2	177.8
2.00"-0.75"	64.0	25.2	152.4
2.00"-1.00"	64.0	50.5	127.0
2.00"-1.25"	64.0	50.5	101.6
2.00"-1.50"	64.0	50.5	76.2
2.50"-0.75"	77.5	25.2	203.2
2.50"-1.00"	77.5	50.5	177.8
2.50"-1.25"	77.5	50.5	152.4
2.50"-1.50"	77.5	50.5	127.0
2.50"-2.00"	77.5	64.0	76.2
3.00"-1.00"	91.0	50.5	228.6
3.00"-1.25"	91.0	50.5	203.2
3.00"-1.50"	91.0	50.5	177.8
3.00"-2.00"	91.0	64.0	127.0
3.00"-2.50"	91.0	77.5	76.2
4.00"-1.00"	119.0	50.5	333.3
4.00"-1.25"	119.0	50.5	307.9
4.00"-1.50"	119.0	50.5	282.5
4.00"-2.00"	119.0	64.0	231.7
4.00"-2.50"	119.0	77.5	180.9
4.00"-3.00"	119.0	91.0	130.1
5.00"-2.00"	155.0	64.0	180.9
5.00"-2.50"	155.0	77.5	155.5
5.00"-3.00"	155.0	91.0	130.1
5.00"-4.00"	155.0	119.0	82.4
6.00"-2.00"	166.8	64.0	231.7
6.00"-2.50"	166.8	77.5	206.3
6.00"-3.00"	166.8	91.0	180.9
6.00"-4.00"	166.8	119.0	133.2
6.00"-5.00"	166.8	155.0	82.4

Short Tee With Clamp

A.9MP



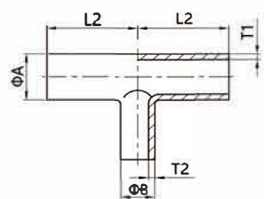
Size	A	B	L1	L2
1/2"	25.2	9.4	36.5	73.0
3/4"	25.2	15.75	38.1	76.2
1"	50.5	22.1	41.3	82.6
1 1/4"	50.5	28.45	49.2	98.4
1 1/2"	50.5	34.8	54.8	109.6
2"	64.0	47.5	65.1	130.2
2 1/2"	77.5	60.2	72.2	144.4
3"	91.0	72.9	78.6	157.2
4"	119.0	97.38	103.1	206.2





Reducing Tee

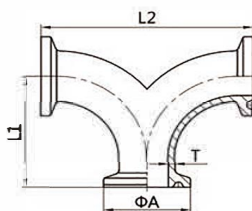
A.L7RW



Size	A	T1	B×T2	L2
1.00"-0.50"	25.4	1.65	12.7×1.65	47.6
1.00"-0.75"	25.4	1.65	19.1×1.65	47.6
1.25"-0.50"	31.8	1.65	12.7×1.65	53.95
1.25"-0.75"	31.8	1.65	19.1×1.65	53.95
1.25"-1.00"	31.8	1.65	25.4×1.65	53.95
1.50"-0.50"	38.1	1.65	12.7×1.65	57.20
1.50"-0.75"	38.1	1.65	19.1×1.65	57.20
1.50"-1.00"	38.1	1.65	25.4×1.65	57.20
1.50"-1.25"	38.1	1.65	31.8×1.65	57.20
2.00"-0.50"	50.8	1.65	12.7×1.65	76.20
2.00"-0.75"	50.8	1.65	19.1×1.65	76.20
2.00"-1.00"	50.8	1.65	25.4×1.65	76.20
2.00"-1.25"	50.8	1.65	31.8×1.65	76.20
2.00"-1.50"	50.8	1.65	38.1×1.65	76.20
2.50"-0.75"	63.5	1.65	19.1×1.65	76.20
2.50"-1.00"	63.5	1.65	25.4×1.65	76.20
2.50"-1.25"	63.5	1.65	31.8×1.65	76.20
2.50"-1.50"	63.5	1.65	38.1×1.65	76.20
2.50"-2.00"	63.5	1.65	50.8×1.65	76.20
3.00"-1.00"	76.2	1.65	25.4×1.65	82.55
3.00"-1.25"	76.2	1.65	31.8×1.65	82.55
3.00"-1.50"	76.2	1.65	38.1×1.65	82.55
3.00"-2.00"	76.2	1.65	50.8×1.65	82.55
3.00"-2.50"	76.2	1.65	63.5×1.65	82.55
4.00"-1.00"	101.6	2.11	25.4×1.65	98.40
4.00"-0.25"	101.6	2.11	31.8×1.65	98.40
4.00"-1.50"	101.6	2.11	38.1×1.65	98.40
4.00"-2.00"	101.6	2.11	50.8×1.65	98.40
4.00"-2.50"	101.6	2.11	63.5×1.65	98.40
4.00"-3.00"	101.6	2.11	76.2×1.65	98.40
5.00"-2.00"	127.0	2.11	50.8×1.65	101.6
5.00"-2.50"	127.0	2.11	63.5×1.65	101.6
5.00"-3.00"	127.0	2.11	76.2×1.65	101.6
5.00"-4.00"	127.0	2.11	101.6×2.11	101.6
6.00"-2.00"	152.4	2.77	50.8×1.65	127.0
6.00"-2.50"	152.4	2.77	63.5×1.65	127.0
6.00"-3.00"	152.4	2.77	76.2×1.65	127.0
6.00"-4.00"	152.4	2.77	101.6×2.11	127.0
6.00"-5.00"	152.4	2.77	127.0×2.11	127.0

Y Type Tee With Clamp

A.7Y



Size	A	T	L1	L2
1"	50.5	1.65	50.8	101.6
1 1/4"	50.5	1.65	60.4	120.8
1 1/2"	50.5	1.65	69.85	139.7
2"	64.0	1.65	88.9	177.8
2 1/2"	77.5	1.65	107.9	215.8
3"	91.0	1.65	127.0	254.0
4"	119.0	2.11	168.4	336.8





Y-Type Tee

A.7YT

Size	A	T	L1
1/2"	12.7	1.65	50.8
3/4"	19.05	1.65	50.8
1"	25.4	1.65	76.2
1 1/2"	38.1	1.65	76.2
2"	50.8	1.65	101.6
2 1/2"	63.5	1.65	127.0
3"	76.2	1.65	152.4
4"	101.6	2.11	203.2
6"	152.4	2.77	203.2

Y-Type Tee With Clamp

A.7CYT

Size	A	T	L1
1/2"	25.2	1.65	63.5
3/4"	25.2	1.65	63.5
1"	50.5	1.65	88.9
1 1/2"	50.5	1.65	88.9
2"	64.0	1.65	114.3
2 1/2"	77.5	1.65	139.7
3"	91.0	1.65	165.1
4"	119.0	2.11	215.9
6"	166.8	2.77	215.9

R-Type Tee

A.7RT

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





45° Elbow Without Straight-End

I.2WK45°

Size	A	T	R	L
13.5	13.5	1.6	20.0	8.3
17.2	17.2	1.6	28.0	11.6
21.3	21.3	1.6	30.0	12.4
26.9	26.9	1.6	28.0	11.6
33.7	33.7	2.0	38.0	15.7
42.4	42.4	2.0	47.5	19.7
48.3	48.3	2.0	57.0	23.6
60.3	60.3	2.0	76.0	31.5
76.1	76.1	2.0	95.0	39.3
88.9	88.9	2.3	114.5	47.4
101.6	101.6	2.3	133.0	55.1
114.3	114.3	2.3	152.0	62.9

90° Elbow Without Straight-End

I.2WK-90°

Size	A	T	R	L
13.5	13.5	1.6	20.0	20.0
17.2	17.2	1.6	28.0	28.0
21.3	21.3	1.6	30.0	30.0
26.9	26.9	1.6	28.0	28.0
33.7	33.7	2.0	38.0	38.0
42.4	42.4	2.0	47.5	47.5
48.3	48.3	2.0	57.0	57.0
60.3	60.3	2.0	76.0	76.0
76.1	76.1	2.0	95.0	95.0
88.9	88.9	2.3	114.5	114.5
101.6	101.6	2.3	133.0	133.0
114.3	114.3	2.3	152.0	152.0

Tee

I.7W

Size	A	T	L1	L
13.5	13.5	1.6	20.0	40.0
17.2	17.2	1.6	28.0	56.0
21.3	21.3	1.6	30.0	60.0
26.9	26.9	1.6	28.0	56.0
33.7	33.7	2.0	38.0	76.0
42.4	42.4	2.0	48.0	96.0
48.3	48.3	2.0	57.0	114.0
60.3	60.3	2.0	64.0	152.0
76.1	76.1	2.0	76.0	190.0
88.9	88.9	2.3	86.0	229.0
101.6	101.6	2.3	95.0	266.0
114.3	114.3	2.3	105.0	304.0

Pulling Tee

I.ES7WWW

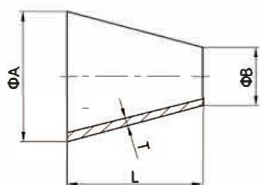
Size	A	T	L1	L
13.5	13.5	1.6	20.0	40.0
17.2	17.2	1.6	28.0	56.0
21.3	21.3	1.6	30.0	60.0
26.9	26.9	1.6	28.0	56.0
33.7	33.7	2.0	38.0	76.0
42.4	42.4	2.0	47.5	95.0
48.3	48.3	2.0	57.0	114.0
60.3	60.3	2.0	76.0	152.0
76.1	76.1	2.0	95.0	190.0
88.9	88.9	2.3	114.5	229.0
101.6	101.6	2.3	133.0	266.0
114.3	114.3	2.3	152.0	304.0





Concentric Reducer

I.L31



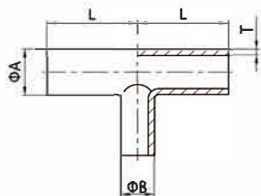
Size	A	B	T	L
26.9×17.3	26.9	17.3	1.6	38
26.9×21.3	26.9	21.3	2.0	38
33.7×21.3	33.7	21.3	2.0	51
33.7×26.9	33.7	26.9	2.0	51
42.4×21.3	42.4	21.3	2.0	51
42.4×26.9	42.4	26.9	2.0	51
42.4×33.7	42.4	33.7	2.0	51
48.3×21.3	48.3	21.3	2.0	64
48.3×26.9	48.3	26.9	2.0	64
48.3×33.7	48.3	33.7	2.0	64
48.3×42.4	48.3	42.4	2.0	64
60.3×26.9	60.3	26.9	2.0	76
60.3×33.7	60.3	33.7	2.0	76
60.3×42.4	60.3	42.4	2.0	76
60.3×48.3	60.3	48.3	2.0	76
76.1×33.7	76.1	33.7	2.0	89
76.1×42.4	76.1	42.4	2.0	89
76.1×48.3	76.1	48.3	2.0	89
76.1×60.3	76.1	60.3	2.0	89
88.9×42.4	88.9	42.4	2.3	89
88.9×48.3	88.9	48.3	2.3	89
88.9×60.3	88.9	60.3	2.3	89
88.9×76.1	88.9	76.1	2.3	89
101.6×42.4	101.6	42.4	2.3	102
101.6×48.3	101.6	48.3	2.3	102
101.6×60.3	101.6	60.3	2.3	102
101.6×76.1	101.6	76.1	2.3	102
101.6×88.9	101.6	88.9	2.3	102
114.3×48.3	114.3	48.3	2.3	102
114.3×60.3	114.3	60.3	2.3	102
114.3×76.1	114.3	76.1	2.3	102
114.3×88.9	114.3	88.9	2.3	102
114.3×101.6	114.3	101.6	2.3	102





Reducing Tee

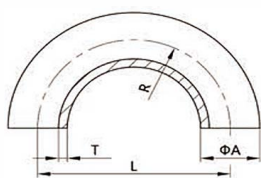
I.L7RW



Size	A	B	T	L
26.9×21.3	26.9	21.3	1.6	29
33.7×21.3	33.7	21.3	2.0	38
33.7×26.9	33.7	26.9	2.0	38
42.4×21.3	42.4	21.3	2.0	48
42.4×26.9	42.4	26.9	2.0	48
42.4×33.7	42.4	33.7	2.0	48
48.3×21.3	48.3	21.3	2.0	57
48.3×26.9	48.3	26.9	2.0	57
48.3×33.7	48.3	33.7	2.0	57
48.3×42.4	48.3	42.4	2.0	57
60.3×26.9	60.3	26.9	2.0	64
60.3×33.7	60.3	33.7	2.0	64
60.3×42.4	60.3	42.4	2.0	64
60.3×48.3	60.3	48.3	2.0	64
76.1×33.7	76.1	33.7	2.0	76
76.1×42.4	76.1	42.4	2.0	76
76.1×48.3	76.1	48.3	2.0	76
76.1×60.3	76.1	60.3	2.0	76
88.9×42.4	88.9	42.4	2.3	86
88.9×48.3	88.9	48.3	2.3	86
88.9×60.3	88.9	60.3	2.3	86
88.9×76.1	88.9	76.1	2.3	86
101.6×42.4	101.6	42.4	2.3	95
101.6×48.3	101.6	48.3	2.3	95
101.6×60.3	101.6	60.3	2.3	95
101.6×76.1	101.6	76.1	2.3	95
101.6×88.9	101.6	88.9	2.3	95
114.3×48.3	114.3	48.3	2.3	105
114.3×60.3	114.3	60.3	2.3	105
114.3×76.1	114.3	76.1	2.3	105
114.3×88.9	114.3	88.9	2.3	105
114.3×101.6	114.3	101.6	2.3	105

180° Elbow

I.3WS-180°



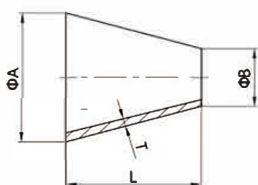
Size	A	T	R	L
13.5	13.5	1.6	20.0	40.0
17.2	17.2	1.6	28.0	56.0
21.3	21.3	1.6	30.0	60.0
26.9	26.9	1.6	28.0	56.0
33.7	33.7	2.0	38.0	76.0
42.4	42.4	2.0	47.5	95.0
48.3	48.3	2.0	57.0	114.0
60.3	60.3	2.0	76.0	152.0
76.1	76.1	2.0	95.0	190.0
88.9	88.9	2.3	114.5	229.0
101.6	101.6	2.3	133.0	266.0
114.3	114.3	2.3	152.0	304.0





Concentric Reducer

I.L31



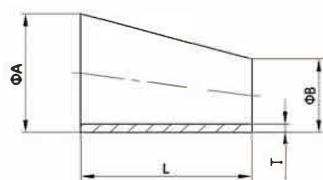
Size	A	B	T	L
26.9×17.3	26.9	17.3	1.6	38
26.9×21.3	26.9	21.3	2.0	38
33.7×21.3	33.7	21.3	2.0	51
33.7×26.9	33.7	26.9	2.0	51
42.4×21.3	42.4	21.3	2.0	51
42.4×26.9	42.4	26.9	2.0	51
42.4×33.7	42.4	33.7	2.0	51
48.3×21.3	48.3	21.3	2.0	64
48.3×26.9	48.3	26.9	2.0	64
48.3×33.7	48.3	33.7	2.0	64
48.3×42.4	48.3	42.4	2.0	64
60.3×26.9	60.3	26.9	2.0	76
60.3×33.7	60.3	33.7	2.0	76
60.3×42.4	60.3	42.4	2.0	76
60.3×48.3	60.3	48.3	2.0	76
76.1×33.7	76.1	33.7	2.0	89
76.1×42.4	76.1	42.4	2.0	89
76.1×48.3	76.1	48.3	2.0	89
76.1×60.3	76.1	60.3	2.0	89
88.9×42.4	88.9	42.4	2.3	89
88.9×48.3	88.9	48.3	2.3	89
88.9×60.3	88.9	60.3	2.3	89
88.9×76.1	88.9	76.1	2.3	89
101.6×42.4	101.6	42.4	2.3	102
101.6×48.3	101.6	48.3	2.3	102
101.6×60.3	101.6	60.3	2.3	102
101.6×76.1	101.6	76.1	2.3	102
101.6×88.9	101.6	88.9	2.3	102
114.3×48.3	114.3	48.3	2.3	102
114.3×60.3	114.3	60.3	2.3	102
114.3×76.1	114.3	76.1	2.3	102
114.3×88.9	114.3	88.9	2.3	102
114.3×101.6	114.3	101.6	2.3	102





Eccentric Reducer

I.L32



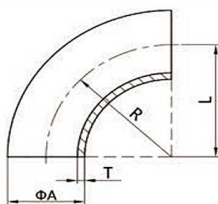
Size	A	B	T	L
26.9×17.3	26.9	17.3	1.6	38
26.9×21.3	26.9	21.3	2.0	38
33.7×21.3	33.7	21.3	2.0	51
33.7×26.9	33.7	26.9	2.0	51
42.4×21.3	42.4	21.3	2.0	51
42.4×26.9	42.4	26.9	2.0	51
42.4×33.7	42.4	33.7	2.0	51
48.3×21.3	48.3	21.3	2.0	64
48.3×26.9	48.3	26.9	2.0	64
48.3×33.7	48.3	33.7	2.0	64
48.3×42.4	48.3	42.4	2.0	64
60.3×26.9	60.3	26.9	2.0	76
60.3×33.7	60.3	33.7	2.0	76
60.3×42.4	60.3	42.4	2.0	76
60.3×48.3	60.3	48.3	2.0	76
76.1×33.7	76.1	33.7	2.0	89
76.1×42.4	76.1	42.4	2.0	89
76.1×48.3	76.1	48.3	2.0	89
76.1×60.3	76.1	60.3	2.0	89
88.9×42.4	88.9	42.4	2.3	89
88.9×48.3	88.9	48.3	2.3	89
88.9×60.3	88.9	60.3	2.3	89
88.9×76.1	88.9	76.1	2.3	89
101.6×42.4	101.6	42.4	2.3	102
101.6×48.3	101.6	48.3	2.3	102
101.6×60.3	101.6	60.3	2.3	102
101.6×76.1	101.6	76.1	2.3	102
101.6×88.9	101.6	88.9	2.3	102
114.3×48.3	114.3	48.3	2.3	102
114.3×60.3	114.3	60.3	2.3	102
114.3×76.1	114.3	76.1	2.3	102
114.3×88.9	114.3	88.9	2.3	102
114.3×101.6	114.3	101.6	2.3	102





90° Elbow Without Straight-End

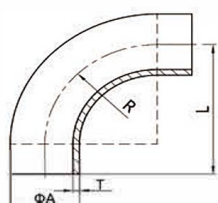
AS.2WK-90°



Size	A	T	R	L
1/2"	12.7	1.6	19.05	19.05
3/4"	19.05	1.6	28.58	28.58
1"	25.4	1.6	38.10	38.10
1 1/4"	31.8	1.6	47.70	47.63
1 1/2"	38.1	1.6	57.15	57.15
2"	50.8	1.6	76.20	76.20
2 1/2"	63.5	1.6	95.25	95.25
3"	76.2	1.6	114.30	114.30
4"	101.6	2.0	152.40	152.40
5"	127.0	2.8	190.50	190.50
6"	152.4	2.8	228.60	228.60

90° Elbow With Straight-End

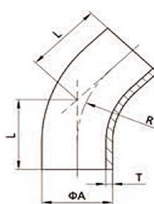
AS.L2WS-90°



Size	A	T	R	L
1/2"	12.7	1.6	19.05	49.1
3/4"	19.05	1.6	28.58	58.6
1"	25.4	1.6	38.10	68.1
1 1/4"	31.8	1.6	47.70	77.7
1 1/2"	38.1	1.6	57.15	87.0
2"	50.8	1.6	76.20	106.2
2 1/2"	63.5	1.6	95.25	125.0
3"	76.2	1.6	114.30	144.3
4"	101.6	2.0	152.40	182.4
5"	127.0	2.8	190.50	230.5
6"	152.4	2.8	228.60	268.6

45° Elbow With Straight-End

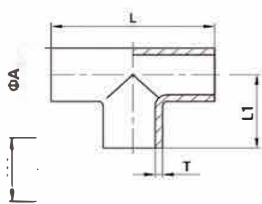
AS.L2WS-45°



Size	A	T	R	L
1/2"	12.7	1.6	19.05	37.9
3/4"	19.05	1.6	28.58	41.8
1"	25.4	1.6	38.10	45.6
1 1/4"	31.8	1.6	47.70	49.7
1 1/2"	38.1	1.6	57.15	53.4
2"	50.8	1.6	76.20	61.5
2 1/2"	63.5	1.6	95.25	69.2
3"	76.2	1.6	114.30	77.4
4"	101.6	2.0	152.40	92.8
5"	127.0	2.8	190.50	118.9
6"	152.4	2.8	228.60	134.7

Short Tee

AS.7WWW



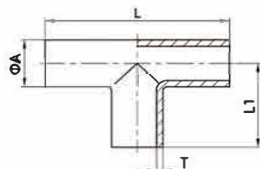
Size	A	T	L1	L
1/2"	12.7	1.6	19.05	38.1
3/4"	19.05	1.6	28.58	57.16
1"	25.4	1.6	38.10	76.2
1 1/4"	31.8	1.6	47.70	95.4
1 1/2"	38.1	1.6	57.15	114.3
2"	50.8	1.6	76.20	152.4
2 1/2"	63.5	1.6	95.25	190.5
3"	76.2	1.6	114.30	228.6
4"	101.6	2.0	152.40	304.8
5"	127.0	2.8	190.50	381.0
6"	152.4	2.8	228.60	457.2





Long Tee

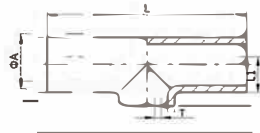
AS.7W



Size	A	T	L1	L
1/2"	12.7	1.6	49.1	98.2
3/4"	19.05	1.6	58.6	117.2
1"	25.4	1.6	68.1	136.2
1 1/4"	31.8	1.6	77.7	155.4
1 1/2"	38.1	1.6	87.0	174.0
2"	50.8	1.6	106.2	212.4
2 1/2"	63.5	1.6	125.0	250.0
3"	76.2	1.6	144.3	288.6
4"	101.6	2.0	182.4	364.8
5"	127.0	2.8	230.5	461.0
6"	152.4	2.8	268.6	537.2

Pulling Tee

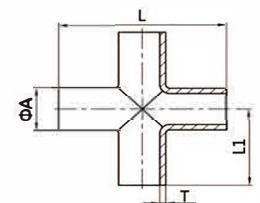
AS.ES7WWW



Size	A	T	L1	L
1/2"	12.7	1.6	9.35	38.1
3/4"	19.05	1.6	12.53	57.16
1"	25.4	1.6	15.70	76.2
1 1/4"	31.8	1.6	18.90	95.4
1 1/2"	38.1	1.6	22.05	114.3
2"	50.8	1.6	28.40	152.4
2 1/2"	63.5	1.6	34.75	190.5
3"	76.2	1.6	41.10	228.6
4"	101.6	2.0	53.80	304.8
5"	127.0	2.8	66.50	381.0
6"	152.4	2.8	79.20	457.2

Long Cross

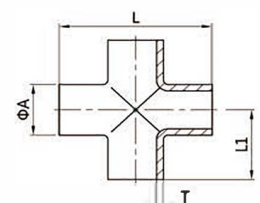
AS.9W



Size	A	T	L1	L
1/2"	12.7	1.6	49.1	98.2
3/4"	19.05	1.6	58.6	117.2
1"	25.4	1.6	68.1	136.2
1 1/4"	31.8	1.6	77.7	155.4
1 1/2"	38.1	1.6	87.0	174.0
2"	50.8	1.6	106.2	212.4
2 1/2"	63.5	1.6	125.0	250.0
3"	76.2	1.6	144.3	288.6
4"	101.6	2.0	182.4	364.8
5"	127.0	2.8	230.5	461.0
6"	152.4	2.8	268.6	537.2

Short Cross

AS. 9WWW



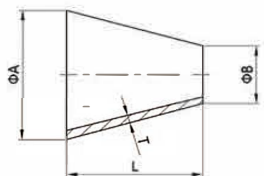
Size	A	T	L1	L
1/2"	12.7	1.6	19.05	38.1
3/4"	19.05	1.6	28.58	57.16
1"	25.4	1.6	38.10	76.2
1 1/4"	31.8	1.6	47.70	95.4
1 1/2"	38.1	1.6	57.15	114.3
2"	50.8	1.6	76.20	152.4
2 1/2"	63.5	1.6	95.25	190.5
3"	76.2	1.6	114.30	228.6
4"	101.6	2.0	152.40	304.8
5"	127.0	2.8	190.50	381.0
6"	152.4	2.8	228.60	457.2





Concentric Reducer

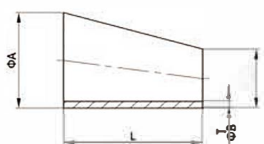
AS. L31



Size	A	T	B	L
0.75"-0.50"	19.1	1.6	12.7	19.1
1.00"-0.50"	25.4	1.6	12.7	25.4
1.00"-0.75"	25.4	1.6	19.1	25.4
1.25"-0.75"	31.8	1.6	19.1	31.8
1.25"-1.00"	31.8	1.6	25.4	31.8
1.50"-0.75"	38.1	1.6	19.1	38.1
1.50"-1.00"	38.1	1.6	25.4	38.1
2.00"-0.50"	50.8	1.6	12.7	50.8
2.00"-0.75"	50.8	1.6	19.1	50.8
2.00"-1.00"	50.8	1.6	25.4	50.8
2.00"-1.25"	50.8	1.6	31.8	50.8
2.00"-1.50"	50.8	1.6	38.1	50.8
2.50"-1.00"	63.5	1.6	25.4	63.5
2.50"-1.25"	63.5	1.6	31.8	63.5
2.50"-1.50"	63.5	1.6	38.1	63.5
2.50"-2.00"	63.5	1.6	50.8	63.5
3.00"-1.00"	76.2	1.6	25.4	76.2
3.00"-1.25"	76.2	1.6	31.8	76.2
3.00"-1.50"	76.2	1.6	38.1	76.2
3.00"-2.00"	76.2	1.6	50.8	76.2
3.00"-2.50"	76.2	1.6	63.5	76.2
4.00"-1.00"	101.6	2.0	25.4	101.6
4.00"-1.25"	101.6	2.0	31.8	101.6
4.00"-1.50"	101.6	2.0	38.1	101.6
4.00"-2.00"	101.6	2.0	50.8	101.6
4.00"-2.50"	101.6	2.0	63.5	101.6
4.00"-3.00"	101.6	2.0	76.2	101.6

Eccentric Reducer

AS.L32



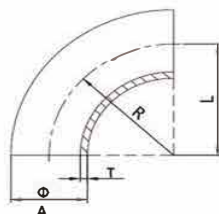
Size	A	T	B	L
0.75"-0.50"	19.1	1.6	12.7	19.1
1.00"-0.50"	25.4	1.6	12.7	25.4
1.00"-0.75"	25.4	1.6	19.1	25.4
1.25"-0.75"	31.8	1.6	19.1	31.8
1.25"-1.00"	31.8	1.6	25.4	31.8
1.50"-0.75"	38.1	1.6	19.1	38.1
1.50"-1.00"	38.1	1.6	25.4	38.1
2.00"-0.50"	50.8	1.6	12.7	50.8
2.00"-0.75"	50.8	1.6	19.1	50.8
2.00"-1.00"	50.8	1.6	25.4	50.8
2.00"-1.25"	50.8	1.6	31.8	50.8
2.00"-1.50"	50.8	1.6	38.1	50.8
2.50"-1.00"	63.5	1.6	25.4	63.5
2.50"-1.25"	63.5	1.6	31.8	63.5
2.50"-1.50"	63.5	1.6	38.1	63.5
2.50"-2.00"	63.5	1.6	50.8	63.5
3.00"-1.00"	76.2	1.6	25.4	76.2
3.00"-1.25"	76.2	1.6	31.8	76.2
3.00"-1.50"	76.2	1.6	38.1	76.2
3.00"-2.00"	76.2	1.6	50.8	76.2
3.00"-2.50"	76.2	1.6	63.5	76.2
4.00"-1.00"	101.6	2.0	25.4	101.6
4.00"-1.25"	101.6	2.0	31.8	101.6
4.00"-1.50"	101.6	2.0	38.1	101.6
4.00"-2.00"	101.6	2.0	50.8	101.6
4.00"-2.50"	101.6	2.0	63.5	101.6
4.00"-3.00"	101.6	2.0	76.2	101.6





90° Elbow Without Straight-End

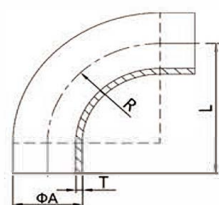
BS.2WK-90°



Size	A	T	R	L
1"	25.4	1.6	38.10	43.5
1 1/2"	38.1	1.6	57.15	63.5
2"	50.8	1.6	76.20	88.5
2 1/2"	63.5	1.6	95.25	113.5
3"	76.2	1.6	114.30	133.5
4"	101.6	2.0	152.40	173.5

90° Elbow With Straight-End

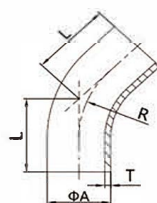
BS L2WS-90°



Size	A	T	R	L
1"	25.4	1.6	38.10	65
1 1/2"	38.1	1.6	57.15	85
2"	50.8	1.6	76.20	110
2 1/2"	63.5	1.6	95.25	135
3"	76.2	1.6	114.30	155
4"	101.6	2.0	152.40	195

45° Elbow With Straight-End

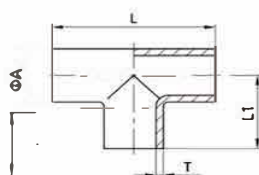
BS.L2WS-45°



Size	A	T	R	L
1"	25.4	1.6	38.10	58.1
1 1/2"	38.1	1.6	57.15	66.6
2"	50.8	1.6	76.20	75.2
2 1/2"	63.5	1.6	95.25	84.0
3"	76.2	1.6	114.30	92.5
4"	101.6	2.0	152.40	109.7

Short Tee

BS.7WWW



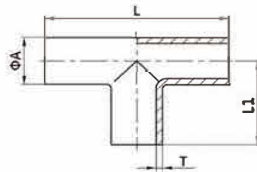
Size	A	T	L1	L
1"	25.4	1.6	43.5	87
1 1/2"	38.1	1.6	63.5	127
2"	50.8	1.6	88.5	177
2 1/2"	63.5	1.6	113.5	227
3"	76.2	1.6	133.5	267
4"	101.6	2.0	173.5	347





Long Tee

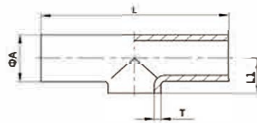
BS.7W



Size	A	T	L1	L
1"	25.4	1.6	65	130
1 1/2"	38.1	1.6	85	170
2"	50.8	1.6	110	220
2 1/2"	63.5	1.6	135	270
3"	76.2	1.6	155	310
4"	101.6	2.0	195	390

Pulling Tee

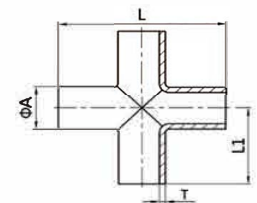
BS.ES7WWW



Size	A	T	L1	L
1"	25.4	1.6	14.3	87
1 1/2"	38.1	1.6	21.6	127
2"	50.8	1.6	28.9	177
2 1/2"	63.5	1.6	35.3	227
3"	76.2	1.6	43.1	267
4"	101.6	2.0	56.2	347

Long Cross

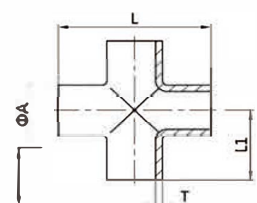
BS.9W



Size	A	T	L1	L
1"	25.4	1.6	65	130
1 1/2"	38.1	1.6	85	170
2"	50.8	1.6	110	220
2 1/2"	63.5	1.6	135	270
3"	76.2	1.6	155	310
4"	101.6	2.0	195	390

Short Cross

BS.9WWW



Size	A	T	L1	L
1"	25.4	1.6	43.5	87
1 1/2"	38.1	1.6	63.5	127
2"	50.8	1.6	88.5	177
2 1/2"	63.5	1.6	113.5	227
3"	76.2	1.6	133.5	267
4"	101.6	2.0	173.5	347





Concentric Reducer

BS.L31

Size	A	T	B	L
1.00"-0.50"	25.4	1.6×1.6	12.7	25.0
1.00"-0.75"	25.4	1.6×1.6	19.1	14.0
1.50"-1.00"	38.1	1.6×1.6	25.4	28.0
2.00"-1.00"	50.8	1.6×1.6	25.4	49.0
2.00"-1.50"	50.8	1.6×1.6	38.1	31.0
2.50"-1.00"	63.5	1.6×1.6	25.4	76.0
2.50"-1.50"	63.5	1.6×1.6	38.1	48.0
2.50"-2.00"	63.5	1.6×1.6	50.8	41.0
3.00"-1.00"	76.2	1.6×1.6	25.4	100.0
3.00"-1.50"	76.2	1.6×1.6	38.1	74.0
3.00"-2.00"	76.2	1.6×1.6	50.8	50.0
3.00"-2.50"	76.2	1.6×1.6	63.5	40.0
4.00"-1.00"	101.6	2.0×1.6	25.4	149.0
4.00"-1.50"	101.6	2.0×1.6	38.1	128.0
4.00"-2.00"	101.6	2.0×1.6	50.8	100.0
4.00"-2.50"	101.6	2.0×1.6	63.5	75.0
4.00"-3.00"	101.6	2.0×1.6	76.2	51.0

Eccentric Reducer

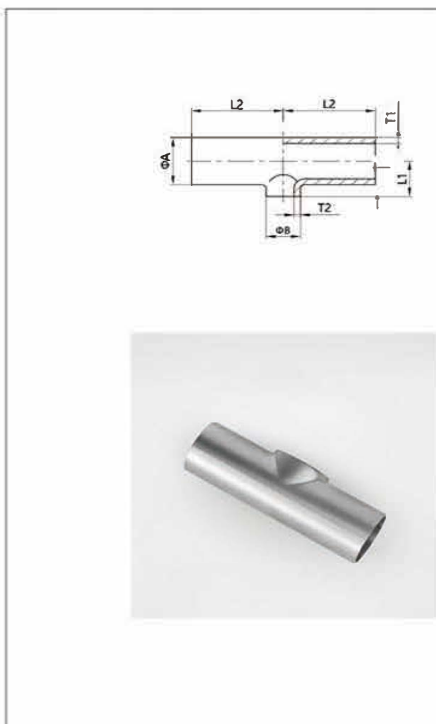
BS.L32

Size	A	T	B	L
1.00"-0.50"	25.4	1.6×1.6	12.7	/
1.00"-0.75"	25.4	1.6×1.6	19.1	/
1.50"-1.00"	38.1	1.6×1.6	25.4	29.0
2.00"-1.00"	50.8	1.6×1.6	25.4	48.0
2.00"-1.50"	50.8	1.6×1.6	38.1	39.0
2.50"-1.00"	63.5	1.6×1.6	25.4	73.0
2.50"-1.50"	63.5	1.6×1.6	38.1	47.0
2.50"-2.00"	63.5	1.6×1.6	50.8	44.0
3.00"-1.00"	76.2	1.6×1.6	25.4	95.0
3.00"-1.50"	76.2	1.6×1.6	38.1	70.0
3.00"-2.00"	76.2	1.6×1.6	50.8	46.0
3.00"-2.50"	76.2	1.6×1.6	63.5	36.0
4.00"-1.00"	101.6	2.0×1.6	25.4	149.0
4.00"-1.50"	101.6	2.0×1.6	38.1	115.0
4.00"-2.00"	101.6	2.0×1.6	50.8	90.0
4.00"-2.50"	101.6	2.0×1.6	63.5	69.0
4.00"-3.00"	101.6	2.0×1.6	76.2	78.0






BS.RS7WWW



Size	L1	A×T1	B	L2
1.0"-0.5"	14.3	25.4×1.6	12.7×1.6	44
1.5"-0.5"	21.6	38.1×1.6	12.7×1.6	75
1.5"-1.0"	21.6	38.1×1.6	25.4×1.6	75
2.0"-0.5"	28.9	50.8×1.6	12.7×1.6	89
2.0"-1.0"	28.9	50.8×1.6	25.4×1.6	89
2.0"-1.5"	28.9	50.5×1.6	38.1×1.6	89
2.5"-0.5"	35.3	63.5×1.6	12.7×1.6	95
2.5"-1.0"	35.3	63.5×1.6	25.4×1.6	95
2.5"-1.5"	35.3	63.5×1.6	38.1×1.6	95
2.5"-2.0"	35.3	63.5×1.6	50.8×1.6	95
3.0"-0.5"	43.1	76.2×1.6	12.7×1.6	95
3.0"-1.0"	43.1	76.2×1.6	25.4×1.6	95
3.0"-1.5"	43.1	76.2×1.6	38.1×1.6	95
3.0"-2.0"	43.1	76.2×1.6	50.8×1.6	95
3.0"-2.5"	43.1	76.2×1.6	63.5×1.6	95
4.0"-0.5"	56.2	101.6×2.0	12.7×1.6	127
4.0"-1.0"	56.2	101.6×2.0	25.4×1.6	127
4.0"-1.5"	56.2	101.6×2.0	38.1×1.6	127
4.0"-2.0"	56.2	101.6×2.0	50.8×1.6	127
4.0"-2.5"	56.2	101.6×2.0	63.5×1.6	127
4.0"-3.0"	56.2	101.6×2.0	76.2×1.6	127

Concentric Reducer With Straight-End


BS.SL31



Size	A	T	B	L
1.5"-1.0"	38.1	1.6×1.6	25.4	99
2.0"-1.0"	50.8	1.6×1.6	25.4	117
2.0"-1.5"	50.5	1.6×1.6	38.1	99
2.5"-1.5"	63.5	1.6×1.6	38.1	117
2.5"-2.0"	63.5	1.6×1.6	50.8	99
3.0"-1.5"	76.2	1.6×1.6	38.1	134
3.0"-2.0"	76.2	1.6×1.6	50.8	117
3.0"-2.5"	76.2	1.6×1.6	63.5	99
4.0"-2.0"	101.6	2.0×2.0	50.8	155
4.0"-2.5"	101.6	2.0×2.0	63.5	138
4.0"-3.0"	101.6	2.0×2.0	76.2	120

Eccentric Reducer With Straight-End

BS.SL32



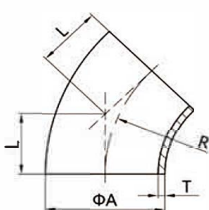
Size	A	T	B	L
1.5"-1.0"	38.1	1.6×1.6	25.4	99
2.0"-1.0"	50.8	1.6×1.6	25.4	117
2.0"-1.5"	50.5	1.6×1.6	38.1	99
2.5"-1.5"	63.5	1.6×1.6	38.1	117
2.5"-2.0"	63.5	1.6×1.6	50.8	99
3.0"-1.5"	76.2	1.6×1.6	38.1	134
3.0"-2.0"	76.2	1.6×1.6	50.8	117
3.0"-2.5"	76.2	1.6×1.6	63.5	99
4.0"-2.0"	101.6	2.0×2.0	50.8	155
4.0"-2.5"	101.6	2.0×2.0	63.5	138
4.0"-3.0"	101.6	2.0×2.0	76.2	120





45° Elbow Without Straight-End

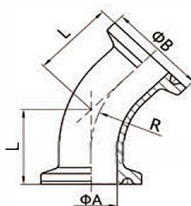
II.2WK-45°



Size	A	T	R	L
Ø12.7	12.7	1.5	19.1	19.1
Ø19.1	19.1	1.5	28.5	28.5
Ø25	25.4	1.5	33.5	33.5
Ø32	31.8	1.5	38.0	38.0
Ø38	38.1	1.5	48.5	48.5
Ø45	45.0	1.5	54.0	54.0
Ø51	50.8	1.5	60.5	60.5
Ø57	57.0	1.5	68.0	68.0
Ø63	63.5	2.0	83.5	83.5
Ø76	76.2	2.0	88.5	88.5
Ø89	89.0	2.0	103.5	103.5
Ø102	101.6	2.0	127.0	127.0

45° Elbow With Clamp

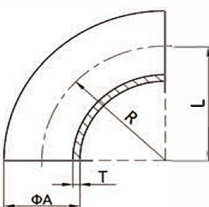
II.2KMP-45°



Size	A	B	R	L
Ø25	22.4	50.5	33.5	34.9
Ø32	28.8	50.5	38.0	36.7
Ø38	35.1	50.5	48.5	41.4
Ø51	47.8	64.0	60.5	46.1
Ø63	59.5	77.5	83.5	55.6
Ø76	72.2	91.0	88.5	57.7
Ø89	85.0	106.0	103.5	63.9
Ø102	97.6	119.0	127.0	73.6

90° Elbow Without Straight-End

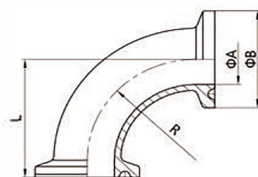
II.2WK-90°



Size	A	T	R	L
Ø12.7	12.7	1.5	19.1	19.1
Ø19.1	19.1	1.5	28.5	28.5
Ø25	25.4	1.5	33.5	33.5
Ø32	31.8	1.5	38.0	38.0
Ø38	38.1	1.5	48.5	48.5
Ø45	45.0	1.5	54.0	54.0
Ø51	50.8	1.5	60.5	60.5
Ø57	57.0	1.5	68.0	68.0
Ø63	63.5	2.0	83.5	83.5
Ø76	76.2	2.0	88.5	88.5
Ø89	89.0	2.0	103.5	103.5
Ø102	101.6	2.0	127.0	127.0

90° Elbow With Clamp

II.2CMP-90°



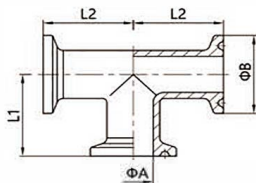
Size	A	B	R	L
Ø25	22.4	50.5	33.5	54.5
Ø32	28.8	50.5	38.0	59.0
Ø38	35.1	50.5	48.5	69.5
Ø45	42.0	64.0	54.0	75.0
Ø51	47.8	64.0	60.5	81.5
Ø57	54.0	77.5	68.0	89.0
Ø63	59.5	77.5	83.5	104.5
Ø76	72.2	91.0	88.5	109.5
Ø89	85.0	106.0	103.5	124.5
Ø102	97.6	119.0	127.0	148.0





Short Tee With Clamp

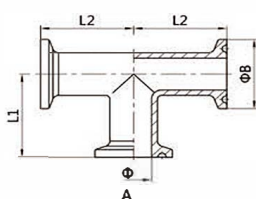
II.7MMMP



Size	A	B	L1	L2
Φ25	22.4	50.5	54.5	109.0
Φ32	28.8	50.5	59.0	118.0
Φ38	35.1	50.5	69.5	139.0
Φ51	47.8	64.0	81.5	163.0
Φ63	59.5	77.5	88.5	177.0
Φ76	72.2	91.0	98.0	196.0
Φ89	85.0	106.0	107.0	214.0
Φ102	97.6	119.0	121.0	242.0

Long Tee With Clamp

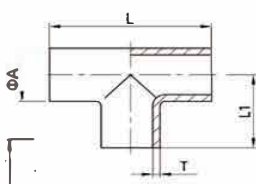
II.7MP



Size	A	B	L1	L2
Φ25	22.4	50.5	54.5	109.0
Φ32	28.8	50.5	59.0	118.0
Φ38	35.1	50.5	69.5	139.0
Φ51	47.8	64.0	81.5	163.0
Φ63	59.5	77.5	104.5	209.0
Φ76	72.2	91.0	109.5	219.0
Φ89	85.0	106.0	124.5	249.0
Φ102	97.6	119.0	148.0	296.0

Short Tee

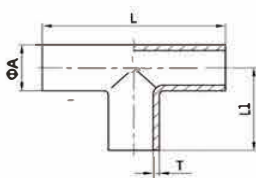
II.7WWW



Size	A	B	L1	L2
Φ12.7	12.7	1.5	19.1	38.2
Φ19.1	19.1	1.5	28.5	57.0
Φ25	25.4	1.5	33.5	67.0
Φ32	31.8	1.5	38.0	76.0
Φ38	38.1	1.5	48.5	97.0
Φ45	45.0	1.5	54.0	108.0
Φ51	50.8	1.5	60.5	121.0
Φ57	57.0	1.5	68.0	136.0
Φ63	63.5	2.0	67.5	135.0
Φ76	76.2	2.0	77.0	154.0
Φ89	89.0	2.0	86.0	172.0
Φ102	101.6	2.0	100.0	200.0

Long Tee

II.7W



Size	A	T	L1	L
Φ12.7	12.7	1.5	19.1	38.2
Φ19.1	19.1	1.5	28.5	57.0
Φ25	25.4	1.5	33.5	67.0
Φ32	31.8	1.5	38.0	76.0
Φ38	38.1	1.5	48.5	97.0
Φ45	45.0	1.5	54.0	108.0
Φ51	50.8	1.5	60.5	121.0
Φ57	57.0	1.5	68.0	136.0
Φ63	63.5	2.0	83.5	167.0
Φ76	76.2	2.0	88.5	177.0
Φ89	89.0	2.0	103.5	207.0
Φ102	101.6	2.0	127.0	254.0





Long Cross

II.9W

Size	A	T	L1	L
Φ12.7	12.7	1.5	19.1	38.2
Φ19.1	19.1	1.5	28.5	57.0
Φ25	25.4	1.5	33.5	67.0
Φ32	31.8	1.5	38.0	76.0
Φ38	38.1	1.5	48.5	97.0
Φ45	45.0	1.5	54.0	108.0
Φ51	50.8	1.5	60.5	121.0
Φ57	57.0	1.5	68.0	136.0
Φ63	63.5	2.0	83.5	167.0
Φ76	76.2	2.0	88.5	177.0
Φ89	89.0	2.0	103.5	207.0
Φ102	101.6	2.0	127.0	254.0

Long Pulling Tee

II.ES7WWW

Size	A	T	L1	L2
Φ25	25.4	1.5	14.7	67.0
Φ32	31.8	1.5	18.0	76.0
Φ38	38.1	1.5	21.0	97.0
Φ51	50.8	1.5	27.4	121.0
Φ63	63.5	2.0	34.8	167.0
Φ76	76.2	2.0	41.1	177.0
Φ89	89.0	2.0	47.5	207.0
Φ102	101.6	2.0	53.8	254.0

Short Pulling Tee

II.ES7W

Size	A	B	L1	L2
Φ25	22.4	50.5	14.7	67.0
Φ32	28.8	50.5	18.0	76.0
Φ38	35.1	50.5	21.0	97.0
Φ51	47.8	64.0	27.4	121.0
Φ63	59.5	77.5	34.8	135.0
Φ76	72.2	91.0	41.1	154.0
Φ89	85.0	106.0	47.5	172.0
Φ102	97.6	119.0	53.8	200.0

Short Cross

II.9WWW

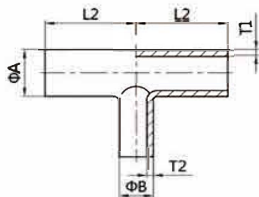
Size	A	T	L1	L2
Φ12.7	12.7	1.5	19.1	38.2
Φ19.1	19.1	1.5	28.5	57.0
Φ25	25.4	1.5	33.5	67.0
Φ32	31.8	1.5	38.0	76.0
Φ38	38.1	1.5	48.5	97.0
Φ45	45.0	1.5	54.0	108.0
Φ51	50.8	1.5	60.5	121.0
Φ57	57.0	1.5	68.0	136.0
Φ63	63.5	2.0	67.5	135.0
Φ76	76.2	2.0	77.0	154.0
Φ89	89.0	2.0	86.0	172.0
Φ102	101.6	2.0	100.0	200.0





Long Reducing Tee

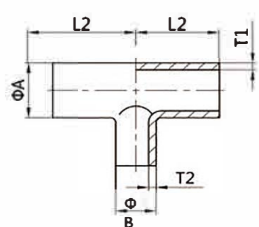
II.L7RW



Size	A	T1	B×T2	L2
Φ32-Φ25	31.8	1.5	25.4×1.5	38.0
Φ38-Φ25	38.1	1.5	25.4×1.5	48.5
Φ38-Φ32	38.1	1.5	31.8×1.5	48.5
Φ51-Φ32	50.8	1.5	31.8×1.5	60.5
Φ51-Φ38	50.8	1.5	38.1×1.5	60.5
Φ63-Φ51	63.5	1.5	50.8×1.5	83.5
Φ76-Φ51	76.2	1.5	50.8×1.5	88.5
Φ76-Φ63	76.2	1.5	63.5×2.0	88.5
Φ102-Φ51	101.6	2.0	50.8×1.5	127.0
Φ102-Φ63	101.6	2.0	63.5×2.0	127.0
Φ102-Φ76	101.6	2.0	76.2×2.0	127.0

Short reducing tee

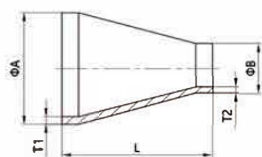
II.L7RWWW



Size	A	T1	B×T2	L2
Φ32-Φ25	31.8	1.5	25.4×1.5	38.0
Φ38-Φ25	38.1	1.5	25.4×1.5	48.5
Φ38-Φ32	38.1	1.5	31.8×1.5	48.5
Φ51-Φ32	50.8	1.5	31.8×1.5	60.5
Φ51-Φ38	50.8	1.5	38.1×1.5	60.5
Φ63-Φ51	63.5	1.5	50.8×1.5	67.5
Φ76-Φ51	76.2	1.5	50.8×1.5	77.0
Φ76-Φ63	76.2	1.5	63.5×2.0	77.0
Φ102-Φ51	101.6	2.0	50.8×1.5	100.0
Φ102-Φ63	101.6	2.0	63.5×2.0	100.0
Φ102-Φ76	101.6	2.0	76.2×2.0	100.0

Concentric Reducer With Straight-End

II.SL31



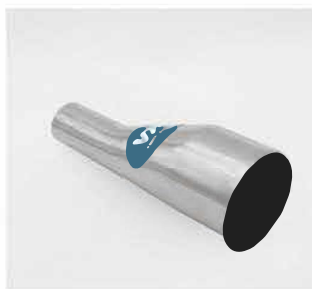
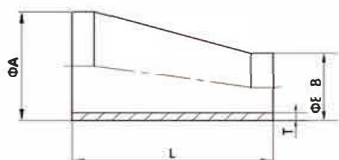
Size	A	T1	B×T2	L2
Φ25-Φ19	25.4	1.5	19.05×1.5	38.0
Φ32-Φ25	31.8	1.5	25.4×1.5	50.0
Φ38-Φ25	38.1	1.5	25.4×1.5	50.0
Φ38-Φ32	38.1	1.5	31.8×1.5	50.0
Φ51-Φ25	50.8	1.5	25.4×1.5	67.0
Φ51-Φ32	50.8	1.5	31.8×1.5	67.0
Φ51-Φ38	50.8	1.5	38.1×1.5	67.0
Φ63-Φ25	63.5	2.0	25.4×1.5	67.0
Φ63-Φ38	63.5	2.0	38.1×1.5	67.0
Φ63-Φ51	63.5	2.0	50.8×1.5	67.0
Φ76-Φ38	76.2	2.0	38.1×1.5	67.0
Φ76-Φ51	76.2	2.0	50.8×1.5	67.0
Φ76-Φ63	76.2	2.0	63.5×2.0	67.0
Φ89-Φ51	89.0	2.0	50.8×1.5	67.0
Φ89-Φ63	89.0	2.0	63.5×2.0	67.0
Φ89-Φ76	89.0	2.0	76.2×2.0	67.0
Φ102-Φ51	101.6	2.0	50.8×1.5	87.0
Φ102-Φ63	101.6	2.0	63.5×2.0	87.0
Φ102-Φ76	101.6	2.0	76.2×2.0	87.0
Φ102-Φ89	101.6	2.0	89.0×2.0	87.0





Eccentric Reducer With Straight-End

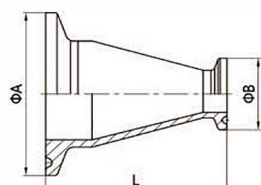
II.SL32



Size	A	T	B	L2
Ø25-Ø19	25.4	1.5×1.5	19.05	38.0
Ø32-Ø25	31.8	1.5×1.5	25.4	50.0
Ø38-Ø25	38.1	1.5×1.5	25.4	50.0
Ø38-Ø32	38.1	1.5×1.5	31.8	50.0
Ø51-Ø25	50.8	1.5×1.5	25.4	67.0
Ø51-Ø32	50.8	1.5×1.5	31.8	67.0
Ø51-Ø38	50.8	1.5×1.5	38.1	67.0
Ø63-Ø25	63.5	2.0×1.5	25.4	67.0
Ø63-Ø38	63.5	2.0×1.5	38.1	67.0
Ø63-Ø51	63.5	2.0×1.5	50.8	67.0
Ø76-Ø38	76.2	2.0×1.5	38.1	67.0
Ø76-Ø51	76.2	2.0×1.5	50.8	67.0
Ø76-Ø63	76.2	2.0×2.0	63.5	67.0
Ø89-Ø51	89.0	2.0×1.5	50.8	67.0
Ø89-Ø63	89.0	2.0×2.0	63.5	67.0
Ø89-Ø76	89.0	2.0×2.0	76.2	67.0
Ø102-Ø51	101.6	2.0×1.5	50.8	87.0
Ø102-Ø63	101.6	2.0×2.0	63.5	87.0
Ø102-Ø76	101.6	2.0×2.0	76.2	87.0
Ø102-Ø89	101.6	2.0×2.0	89.0	87.0

Concentric Reducer With Clamp

II.31CMP



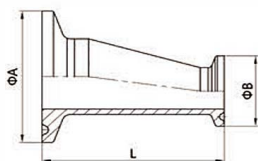
Size	A	B	L
Ø25-Ø19	50.	34.0	80.0
Ø32-Ø25	50.	50.5	92.0
Ø38-Ø25	50.	50.5	92.0
Ø38-Ø32	50.	50.5	109.0
Ø51-Ø25	64.	50.5	109.0
Ø51-Ø32	64.	50.5	109.0
Ø51-Ø38	64.	50.5	109.0
Ø63-Ø25	77.5	50.5	109.0
Ø63-Ø38	77.5	50.5	109.0
Ø63-Ø51	77.5	64.0	109.0
Ø76-Ø38	91.0	50.5	109.0
Ø76-Ø51	91.0	64.0	109.0
Ø76-Ø63	91.0	77.5	109.0
Ø89-Ø51	106.0	64.0	109.0
Ø89-Ø63	106.0	77.5	109.0
Ø89-Ø76	106.0	91.0	109.0
Ø102-Ø51	119.0	64.0	129.0
Ø102-Ø63	119.0	77.5	129.0
Ø102-Ø76	119.0	91.0	129.0
Ø102-Ø89	119.0	106.0	129.0





Eccentric Tee With Clamp

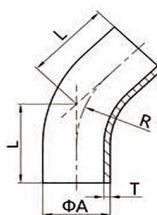
II.32CMP



Size	A	B	L
Ø25-Ø19	50.5	34.0	80.0
Ø32-Ø25	50.5	50.5	92.0
Ø38-Ø25	50.5	50.5	92.0
Ø38-Ø32	50.5	50.5	109.0
Ø51-Ø25	64.0	50.5	109.0
Ø51-Ø32	64.0	50.5	109.0
Ø51-Ø38	64.0	50.5	109.0
Ø63-Ø25	77.5	50.5	109.0
Ø63-Ø38	77.5	50.5	109.0
Ø63-Ø51	77.5	64.0	109.0
Ø76-Ø38	91.0	50.5	109.0
Ø76-Ø51	91.0	64.0	109.0
Ø76-Ø63	91.0	77.5	109.0
Ø89-Ø51	106.0	64.0	109.0
Ø89-Ø63	106.0	77.5	109.0
Ø89-Ø76	106.0	91.0	109.0
Ø102-Ø51	119.0	64.0	129.0
Ø102-Ø63	119.0	77.5	129.0
Ø102-Ø76	119.0	91.0	129.0
Ø102-Ø 89	119.0	106.0	129.0

45° Elbow With Straight-End

II.L2WS-45°



Size	A	T	R	L
Ø25	25.4	1.5	33.5	30.2
Ø38	31.8	1.5	48.5	41.3
Ø51	50.8	1.5	60.5	58.7
Ø63	63.5	2.0	83.5	76.2
Ø76	76.2	2.0	88.5	93.7
Ø102	106.0	2.0	127.0	122.2

