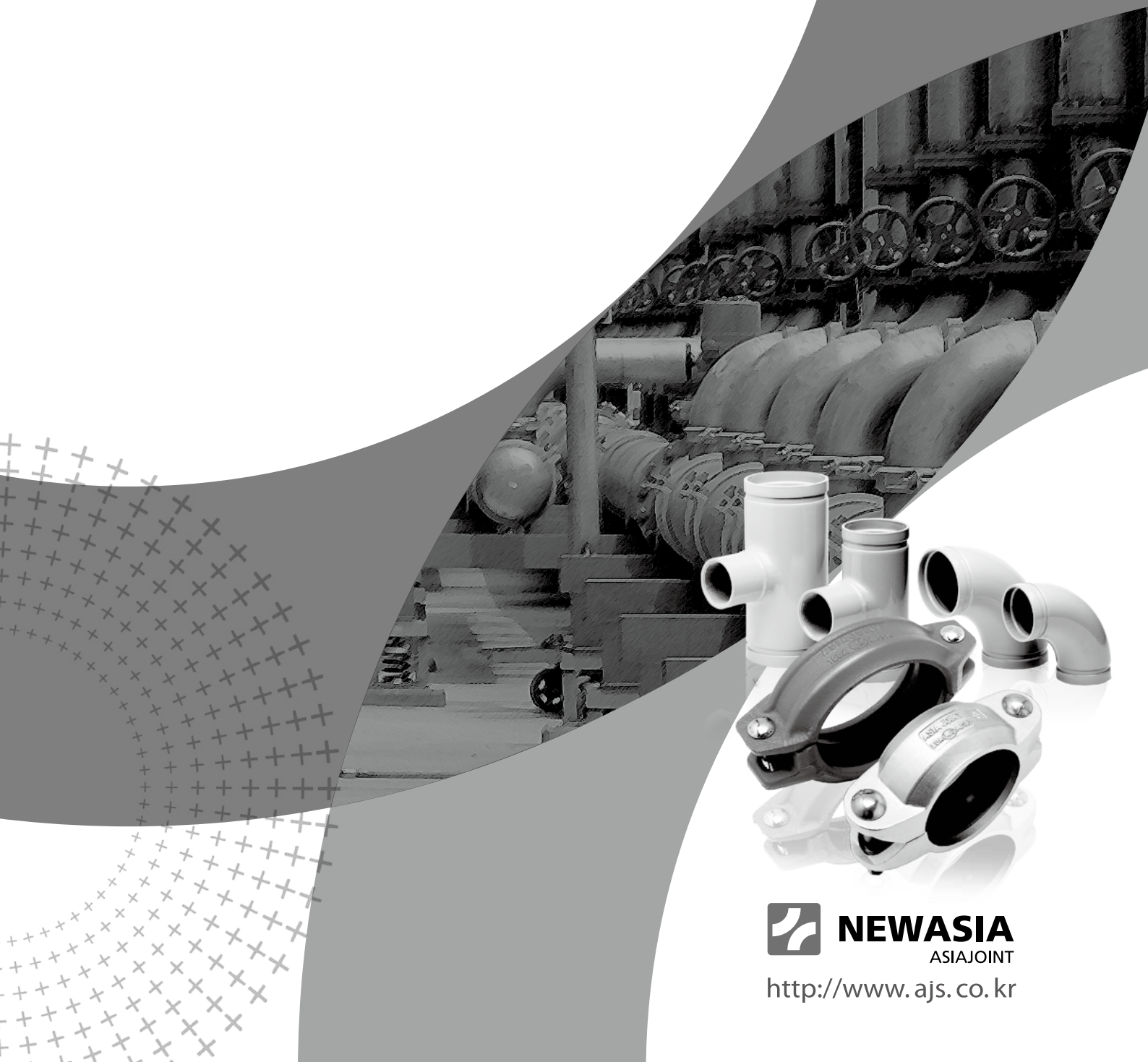


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Grooved Pipe Fittings

Catalogue



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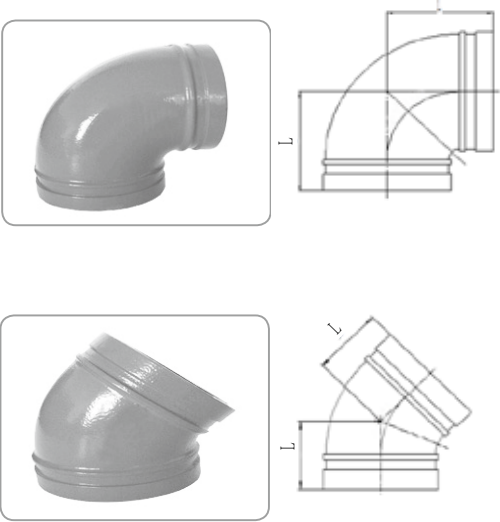
<http://www.ajs.co.kr>

Ductile Grooved fittings

Ductile Grooved Elbow

90/45D Grooved Outlet : XGQT01/XGQT02

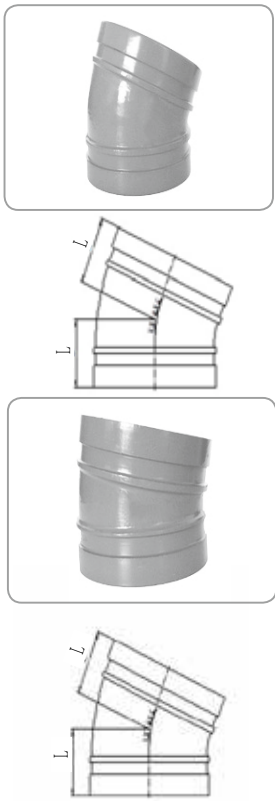
Mat'l : Ductile iron(GCD450)



Nominal Size DN inch	Pipe O,D (mm)	Max. Working Pressure (kgf/cm2)	Dimensions (mm) / Length(L)	
			90°	45°
			XGQT01	XGQT02
25 1	33.7	21	57	
32 1.1/4	42.4	21	60	
40 1.1/2	48.3	21	60	
50 2	60.3	21	70	51
65	76.1	21	76	57
2.1/2	73.0	21	76	57
80 3	88.9	21	86	64
100 4	114.3	21	102	76
125	139.7	21	122	83
5	141.3	21	122	83
150	165.1	21	140	89
6	168.3	21	140	89
200	216.3	21	175	108
8	219.1	21	175	108

22.5/11.25D Grooved Outlet : XGQT09/XGQT9

Nominal Size DN inch	Pipe O,D (mm)	Max. Working Pressure (kgf/cm2)	Dimensions (mm) / Length(L)	
			22.5°	11.25°
			XGQT09	XGQT9
25 1	33.7	21		
32 1.1/4	42.4	21		
40 1.1/2	48.3	21		
50 2	60.3	21	48	35
65	76.1	21	51	38
2.1/2	73.0	21	51	38
80 3	88.9	21	57	38
100 4	114.3	21	73	45
125	139.7	21	73	51
5	141.3	21	73	51
150	165.1	21	79	51
6	168.3	21	79	51
200	216.3	21		
8	219.1	21		



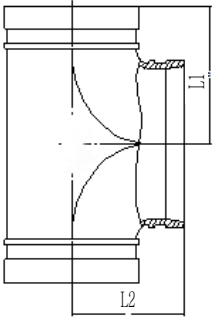
Ductile Grooved Tee

Grooved Equal/Reducing Tee: XGQT03/ XGQT04

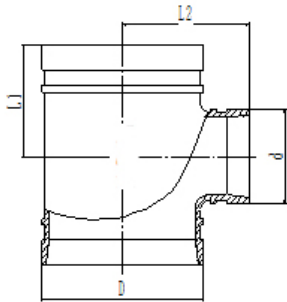
Mat'l : Ductile iron(GCD450)



Grooved Equal Tee



Reducing Tee



Nominal Size (A)	Pipe O.D. (mm)	Max. Working Pressure (kgf/cm2)	Dimensions(mm)/Length L			Nominal Size (A)	Pipe O.D. (mm)	Max. Working Pressure (kgf/cm2)	Dimensions(mm)/Length L		
			Grooved Equal Tee	Reducing Tee (XGQT04)					Grooved Equal Tee	Reducing Tee (XGQT04)	
				XGQT03	L1					L2	XGQT03
50x50 2x2	60.3x60.3	21	70	—	—	5x2	141.3x60.3	21		122	122
						125x80	139.7x88.9	21	—	122	122
65x50	76.1x60.3	21	—	76	76	5x3	141.3x88.9	21		122	122
2.1/2x2	73.0x60.3	21	—	76	76	125x100	139.7x114.3	21	—	122	122
65x65	76.1x76.1	21	76	—	—	5x4	141.3x114.3	21		122	122
2..1/2x2.1/2	73.0x73.0	21	76	—	—	125x125	139.7x139.7	21	124	—	—
80x50 3x2	88.9x60.3	21	—	86	86	5x5	141.3x141.3	21	124	—	—
80x65	88.9x76.1	21	—	86	86	150x50	165.1x60.3	21	—	140	140
3x2.1/2	88.9x73.0	21	—	86	86	6x2	168.3x60.3	21	—	140	140
						150x65	165.1x76.1	21	—	140	140
80x80 3x3	88.9x88.9	21	86	—	—	6x2.1/2	168.3x73.0	21	—	140	140
						150x80	165.1x88.9	21	—	140	140
100x50 4x2	114.3x60.3	21	—	102	102	6x3	168.3x88.9	21	—	140	140
100x65	114.3x76.1	21	—	102	102	150x100	165.1x114.3	21	—	140	140
4x2.1/2	114.3x73.0	21	—	102	102	6x4	168.3x114.3	21	—	140	140
						150x125	165.1x139.7	21	—	140	140
100x80 4x3	114.3x88.9	21	—	102	102	6x5	168.3x141.3	21	—	140	140
						150x150	165.1x165.1	21	140	—	—
100x100 4x4	114.3x114.3	21	102	—	—	6x6	168.3x168.3	21	140	—	—
125x50	139.7x60.3	21	—	122	122						

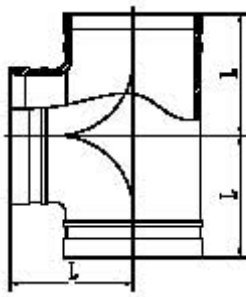
Ductile Grooved Tee

Threaded Reducing Tee : XGQT04S

Mat'l : Ductile iron(GCD450)



Threaded Reducing Tee



Nominal Size DN inch	Pipe O.D. (mm)	Max. Working Pressure (kgf/cm2)	Dimensions(mm)/ Length L		Nominal Size DN inch	Pipe O.D. (mm)	Max. Working Pressure (kgf/cm2)	Dimensions(mm)/ Length L	
			(XGQT04S)					(XGQT04S)	
			L1	L2				L1	L2
50x25 2x1	60.3x33.7	21	70	70	100x32 4x1.1/4	114.3x42.4	21	102	102
50x32 2x1.1/4	60.3x42.4	21	70	70	100x40 4x1.1/2	114.3x48.3	21	102	102
50x40 2x1.1/2	60.3x48.3	21	70	70	100x50 4x2	114.3x60.3	21	102	102
65x25	76.1x33.7	21	76	76	125x25	139.7x33.7	21	122	122
2.1/2x1	73.0x33.7	21	76	76	5x1	141.3x33.7	21	122	122
65x32	76.1x42.4	21	76	76	125x32	139.7x42.4	21	122	122
2.1/2x1.1/4	73.0x42.4	21	76	76	5x1.1/4	141.3x42.4	21	122	122
65x40	76.1x48.3	21	76	76	125x40	139.7x48.3	21	122	122
2.1/2x1.1/2	73.0x48.3	21	76	76	5x1.1/2	141.3x48.3	21	122	122
65x50	76.1x60.3	21	76	76	125x50	139.7x60.3	21	122	122
2.1/2x2	73.0x60.3	21	76	76	5x2	141.3x60.3	21	122	122
80x25 3x1	88.9x33.7	21	86	86	150x25	165.1x33.7	21	140	140
					6x1	168.3x33.7	21	140	140
80x32 3x1.1/4	88.9x42.4	21	86	86	150x32	165.1x42.4	21	140	140
					6x1.1/4	168.3x42.4	21	140	140
80x40 3x1.1/2	88.9x48.3	21	86	86	150x40	165.1x48.3	21	140	140
					6x1.1/2	168.3x48.3	21	140	140
80x50 3x2	88.9x60.3	21	86	86	150x50	165.1x60.3	21	140	140
100x25 4x1	114.3x33.7	21	102	102	6x2	168.3x60.3	21	140	140

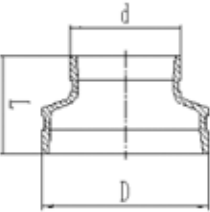
Ductile Grooved Concentric Reducer

Grooved/ Threaded Outlet : XGQT5/ XGQT5S

Mat'l : Ductile iron(GCD450)



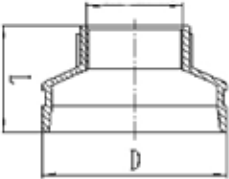
Grooved



Nominal Size DN inch	Pipe O.D. (mm)	Max.Working Pressure (kgf/cm2)	Dimensions (mm)/Length L
			Grooved XGQT5
65x50	76,1x60,3	21	64
2,1/2x2	73,0x60,3	21	64
80x50 3x2	88,9x60,3	21	64
80x65	88,9x76,1	21	64
3x2,1/2	88,9x73,0	21	64
100x50 4x2	114,3x60,3	21	76
100x65	114,3x76,1	21	76
4x2,1/2	114,3x73,0	21	76
100x80 4x3	114,3x88,9	21	76
125x65	139,7x76,1	21	89
5x2,1/2	141,3x73,0	21	89
125x80	139,7x88,9	21	89
5x3	141,3x88,9	21	89
125x100	139,7x114,3	21	89
5x4	141,3x114,3	21	89
150x65	165,1x76,1	21	102
6x2,1/2	168,3x73,0	21	102
150x80	165,1x88,9	21	102
6x3	168,3x88,9	21	102
150x100	165,1x114,3	21	102
6x4	168,3x114,3	21	102
150x125	165,1x139,7	21	102
6x5	168,3x141,3	21	102



Threaded

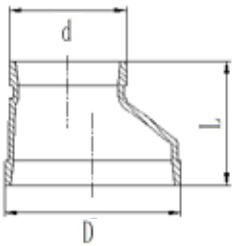


Nominal Size DN inch	Pipe O.D. (mm)	Max.Working Pressure (kgf/cm2)	Dimensions (mm)/Length L
			Threaded type XGQT5S
50x25 2x1	60,3x33,7	21	64
50x32 2x1,1/4	60,3x42,4	21	64
50x40 2x1,1/2	60,3x48,3	21	64
65x25	76,1x33,7	21	64
2,1/2x1	73,0x33,7	21	64
65x32	76,1x42,4	21	64
2,1/2x1,1/4	73,0x42,4	21	64
65x40	76,1x48,3	21	64
2,1/2x1,1/2	73,0x48,3	21	64
65x50	76,1x60,3	21	64
2,1/2x2	73,0x60,3	21	64
80x25 3x1	88,9x33,7	21	64
80x32 3x1,1/4	88,9x42,4	21	64
80x40 3x1,1/2	88,9x48,3	21	64
80x50 3x2	88,9x60,3	21	64
100x25 4x1	114,3x33,7	21	76
100x32 4x1,1/4	114,3x42,4	21	76
100x40 4x1,1/2	114,3x48,6	21	76
100x50 4x2	114,3x60,3	21	76
125x25	139,7x33,7	21	89
5x1	141,3x33,7	21	89
125x32	139,7x42,4	21	89
5x1,1/4	141,3x42,4	21	89
125x40	139,7x48,3	21	89
5x1,1/2	141,3x48,3	21	89
125x50	139,7x60,3	21	89
5x2	141,3x60,3	21	89
150x25	165,1x33,7	21	102
6x1	168,3x33,7	21	102
150x32	165,1x42,4	21	102
6x1,1/4	168,3x42,4	21	102
150x40	165,1x48,3	21	102
6x1,1/2	168,3x48,3	21	102
150x50	165,1x60,3	21	102
6x2	168,3x60,3	21	102

Ductile Grooved Eccentric Reducer XGQT05

Grooved Equal/Reducing Cross : XGQT05

Mat'l : Ductile iron(GCD450)

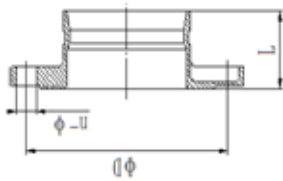


Nominal Size DN inch	Pipe O.D. (mm)	Max.Working Pressure (kgf/cm2)	imensions (mm)/Length L
			Grooved
			XGQT05
80x50 3x2	88,9x60,3	21	64
100x65	114,3x76,1	21	76
4x2,1/2	114,3x73,0	21	76
100x80 4x3	114,3x88,9	21	76
125x100	139,7x114,3	21	89
5x4	141,3x114,3	21	89
150x65	165,1x76,1	21	102
6x2,1/2	168,3x73,0	21	102
150x80	165,1x88,9	21	102
6x3	168,3x88,9	21	102
150x100	165,1x114,3	21	102
6x4	168,3x114,3	21	102
150x125	165,1x139,7	21	102
6x5	168,3x141,3	21	102

Ductile Grooved Flange Adaptor

Grooved Outlet : XGQT08

Mat'l : Ductile iron(GCD450)

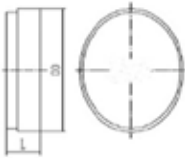


Nominal Size DN inch	Pipe O.D. (mm)	Dimensions (mm) /Length L	10K (810K)	
			(D)	Bolts
50 2	60,3	65	120	4-5/8
65	76,1	65	140	4-5/8
2,1/2	73,0	65	140	4-5/8
80 3	88,9	65	150	8-5/8
100 4	114,3	70	175	8-5/8
125	139,7	70	210	8-5/8
5	141,3	70	210	8-5/8
150	165,1	70	240	8-3/4
6	168,3	70	240	8-3/4
200	216,3	80	290	12-7/8
8	219,1	80	290	8-3/4

Ductile Grooved Cap

Grooved Outlet : XGQT06

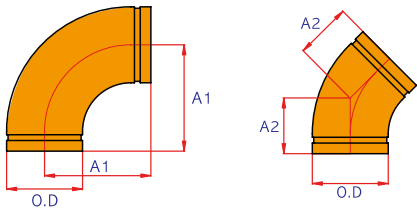
Mat'l : Ductile iron(GCD450)



Nominal Size DN inch	Pipe O.D. (mm)	Max.Working Pressure (kgf/cm2)	Dimensions (mm)/Length L
50 2	60,3	21	24
65	76,1	21	24
2,1/2	73,0	21	24
80 3	88,9	21	24
100 4	114,3	21	26
125	139,7	21	26
5	141,3	21	26
150	165,1	21	26
6	168,3	21	26
200	216,3	21	28
8	219,1	21	28

Grooved Elbow

90/45 Degree

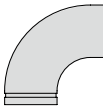


- Mat'l : SPP, SPPS250
- Paint : Epoxy Coat

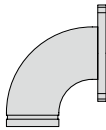
Carbon Grooved fittings

Nominal Size DN inch	Pipe O.D (mm)	Wall Thick T (mm)	Normal pressure (SPP)				High pressure (S40)			
			90° Elbow		45° Elbow		90° Elbow		45° Elbow	
			A1(mm)	Weight(Kg)	A2(mm)	Weight(Kg)	A1(mm)	Weight(Kg)	A2(mm)	Weight(Kg)
40 1.1/2	48.6	3.5	77.0	0.5	47.0	0.3	77.0	0.6	47.0	0.3
50 2	60.5	3.8	94.0	0.8	54.0	0.5	94.0	0.9	54.0	0.5
65	76.3	4.2	110.0	1.2	60.0	0.7	110.0	1.5	60.0	0.8
2.1/2	73.0	4.2	110.0	1.2	60.0	0.7	110.0	1.5	60.0	0.8
80 3	89.1	4.2	129.0	1.8	71.0	1.0	129.0	2.2	71.0	1.1
100 4	114.3	4.5	160.0	3.1	84.0	1.6	160.0	4.2	84.0	2.1
125	139.8	4.8	191.0	4.9	99.0	2.3	191.0	7.0	99.0	3.5
5	141.3	4.8	191.0	4.9	99.0	2.3	191.0	7.0	99.0	3.5
150	165.2	5.0	229.0	7.1	115.0	3.6	229.0	9.9	115.0	5.0
6	168.3	5.0	229.0	7.1	115.0	3.6	229.0	9.9	115.0	5.0
200	216.3	5.8	305.0	14.4	150.0	7.1	305.0	20.1	150.0	10.0
8	219.1	5.8	305.0	14.4	150.0	7.1	305.0	20.1	150.0	10.0
250	267.4	6.6	381.0	25.4	181.0	12.1	381.0	35.4	181.0	17.7
10	273.0	6.6	381.0	25.4	181.0	12.1	381.0	35.4	181.0	17.7
300	318.5	6.9	457.0	38.1	189.0	18.2	457.0	56.2	189.0	28.2
12	323.9	6.9	457.0	38.1	189.0	18.2	457.0	56.2	189.0	28.2
350 14	355.6	7.9	533.4	56.6	220.9	28.0	533.4	73.9	220.9	37.0
400 16	406.4	7.9	609.6	74.3	252.5	37.0	609.6	118.0	252.5	59.0
450 18	457.2	7.9	685.8	94.2	284.1	47.0	685.8	168.0	284.1	84.0
500 20	508.0	7.9	762.0	116.6	315.6	59.0	762.0	219.0	315.6	110.0
550 22	558.8	7.9	838.2	141.2	347.2	71.0	838.2	—	347.2	—
600 24	609.6	7.9	914.4	168.3	378.7	84.0	914.4	—	378.7	—

Contact us special size

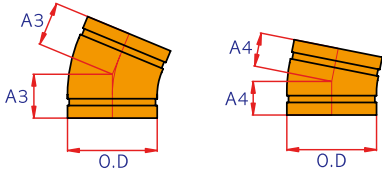


Elbow (Grooved x Butt Welded)



Elbow (Flanged x Grooved)

22.5/11.25 Degree



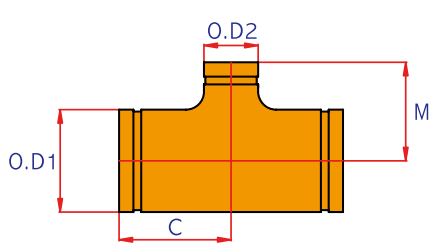
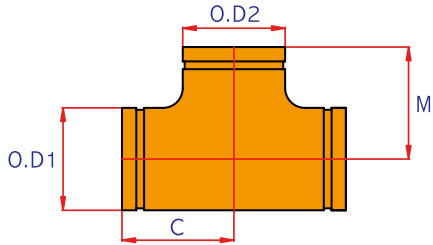
- Mat'l : SPP, SPPS250
- Paint : Epoxy Coat

Nominal Size DN inch	Pipe O,D (mm)	Wall Thick T (mm)	Normal pressure (SPP)				High pressure (S40)			
			22,5° Elbow		11,25° Elbow		22,5° Elbow		11,25° Elbow	
			A3(mm)	Weight(Kg)	A4(mm)	Weight(Kg)	A3(mm)	Weight(Kg)	A4(mm)	Weight(Kg)
50 2	60.5	3.8	39.0	0.4	32.0	0.3	39.0	0.4	32.0	0.3
65	76.3	4.2	42.0	0.5	33.0	0.4	42.0	0.6	33.0	0.4
2,1/2	73.0	4.2	42.0	0.5	33.0	0.4	42.0	0.6	33.0	0.4
80 3	89.1	4.2	50.0	0.8	40.0	0.6	50.0	0.8	40.0	0.6
100 4	114.3	4.5	56.0	1.2	43.0	0.8	56.0	1.6	43.0	1.1
5	141.3	4.8	66.0	1.8	50.0	1.2	66.0	2.7	50.0	1.8
6	168.3	5.0	74.0	2.8	54.0	1.7	74.0	3.9	54.0	2.5
8	219.1	5.8	93.0	5.5	66.0	3.1	93.0	7.7	66.0	5.0
10	273.0	6.6	108.0	8.1	74.0	4.9	108.0	11.7	74.0	8.8
12	323.9	6.9	131.0	12.2	90.0	7.5	131.0	18.6	90.0	14.1

Grooved Tee

Grooved Outlet

- Mat'l : SPP, SPPS250
- Paint : Epoxy Coat

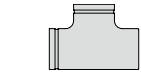


Nominal Size DN inch	Center to End		Normal Pressure(SPP)					High pressure(S40)				
	C(mm)	M(mm)	RUN		Outlet		Weight(Kg)	RUN		Outlet		Weight(Kg)
			Outside Dia OD1 (mm)	Wall Thick T1 (mm)	Outside Dia OD2 (mm)	Wall Thick T2 (mm)		Outside Dia OD1 (mm)	Wall Thick T1 (mm)	Outside Dia OD2 (mm)	Wall Thick T2 (mm)	
40x40 1,1/2x1,1/2	75.0	75.0	48.6	3.5	48.6	3.5	0.8	48.6	3.7	48.6	3.7	0.9
50x50 2x2	81.0	81.0	60.5	3.8	60.5	3.8	1.1	60.5	3.9	60.5	3.9	1.2
65x50 2,1/2x2	94.0	90.0	76.3	4.2	60.5	3.8	1.7	76.3	5.2	60.5	3.9	2.0
65x65 2,1/2x2,1/2	94.0	94.0	76.3	4.2	76.3	4.2	1.8	76.3	5.2	76.3	5.2	2.0
80x50 3x2	101.0	93.0	89.1	4.2	60.5	3.8	2.1	89.1	5.5	60.5	3.9	2.4
80x65 3x2,1/2	101.0	98.0	89.1	4.2	76.3	4.2	2.2	89.1	5.5	76.3	5.2	2.5
80x80 3x3	101.0	101.0	89.1	4.2	89.1	4.2	2.3	89.1	5.5	89.1	5.5	2.5
100x50 4x2	125.0	110.0	114.3	4.5	60.5	3.8	3.3	114.3	6.0	60.5	3.9	4.0
100x65 4x2,1/2	125.0	118.0	114.3	4.5	76.3	4.2	3.5	114.3	6.0	76.3	5.2	4.1
100x80 4x3	125.0	121.0	114.3	4.5	89.1	4.2	4.2	114.3	6.0	89.1	5.5	4.2
100x100 4x4	125.0	125.0	114.3	4.5	114.3	4.5	4.5	114.3	6.0	114.3	6.0	4.5
125x65 5x2,1/2	123.8	116.0	139.8	4.5	76.3	4.2	4.8	139.8	6.6	76.3	5.2	6.5
125x80 5x3	123.8	120.0	139.8	4.5	89.1	4.2	4.9	139.8	6.6	89.1	5.5	6.6
125x100 5x4	123.8	124.0	139.8	4.5	114.3	4.5	5.2	139.8	6.6	114.3	6.0	6.7
125x125 5x5	123.8	125.0	139.8	4.5	139.8	4.5	5.5	139.8	6.6	139.8	6.6	7.2
150x50 6x2	142.9	134.0	165.2	5.0	60.5	3.8	7.0	165.2	7.1	60.5	3.9	7.3
150x65 6x2,1/2	142.9	132.0	165.2	5.0	76.3	4.5	7.0	165.2	7.1	76.3	5.2	7.3
150x80 6x3	142.9	132.0	165.2	5.0	89.1	4.2	7.1	165.2	7.1	89.1	5.5	9.5
150x100 6x4	142.9	138.0	165.2	5.0	114.3	4.5	7.4	165.2	7.1	114.3	6.0	9.7
150x125 6x5	142.9	144.0	165.2	5.0	139.8	4.5	7.7	165.2	7.1	139.8	6.6	9.9
150x150 6x6	142.9	144.0	165.2	5.0	165.2	5.0	8.1	165.2	7.1	165.2	7.1	10.5
200x100 8x4	177.8	163.0	216.3	5.8	114.3	4.5	13.2	216.3	8.2	114.3	6.0	17.8
200x125	177.8	163.0	216.3	5.8	139.8	4.5	13.6	216.3	8.2	139.8	6.6	18.0

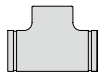
8x5	177.8	163.0	219.1	5.8	141.3	4.5	13.6	219.1	8.2	141.3	6.6	18.0
200x150	177.8	168.0	216.3	5.8	165.2	5.0	14.1	216.3	8.2	165.2	7.1	18.3
8x6	177.8	168.0	219.1	5.8	168.3	5.0	14.1	219.1	8.2	168.3	7.1	18.3
200x200	177.8	180.0	216.3	5.8	216.3	5.8	15.3	216.3	8.2	216.3	8.2	19.7
8x8	177.8	180.0	219.1	5.8	219.1	5.8	15.3	219.1	8.2	219.1	8.2	19.7
250x100	215.9	215.9	267.4	6.6	114.3	4.5	20.6	267.4	9.3	114.3	6.0	20.0
10x4	215.9	215.9	273.0	6.6	114.3	4.5	20.6	273.0	9.3	114.3	6.0	20.0
250x125	215.9	215.9	267.4	6.6	139.8	4.5	21.7	267.4	9.3	139.8	6.6	30.7
10x5	215.9	215.9	273.0	6.6	141.3	4.5	21.7	273.0	9.3	141.3	6.6	30.7
250x150	215.9	215.9	267.4	6.6	165.2	5.0	22.2	267.4	9.3	165.2	7.1	31.0
10x6	215.9	215.9	273.0	6.6	168.3	5.0	22.2	273.0	9.3	168.3	7.1	31.0
250x200	215.9	215.9	267.4	6.6	216.3	5.8	23.4	267.4	9.3	216.3	8.2	31.3
10x8	215.9	215.9	273.0	6.6	219.1	5.8	23.4	273.0	9.3	219.1	8.2	31.3
250x250	215.9	215.9	267.4	6.6	267.4	6.6	25.1	267.4	9.3	267.4	9.3	33.4
10x10	215.9	215.9	273.0	6.6	273.0	6.6	25.1	273.0	9.3	273.0	9.3	33.4
300x125	254.0	235.0	318.5	6.9	139.8	4.5	30.4	318.5	10.3	139.8	6.6	46.0
12x5	254.0	235.0	323.9	6.9	141.3	4.5	30.4	323.9	141.3	141.3	6.6	46.0
300x150	254.0	235.0	318.5	6.9	165.2	5.0	31.2	318.5	10.3	165.2	7.1	46.1
12x6	254.0	235.0	323.9	6.9	168.3	5.0	31.2	323.9	10.3	168.3	7.1	46.1
300x200	254.0	254.0	318.5	6.9	216.3	5.8	32.5	318.5	10.3	216.3	8.2	47.5
12x8	254.0	254.0	323.9	6.9	219.1	5.8	32.5	323.9	10.3	219.1	8.2	47.5
300x250	254.0	254.0	318.5	6.9	267.4	6.6	34.2	318.5	10.3	267.4	9.3	49.0
12x10	254.0	254.0	323.9	6.9	273.0	6.6	34.2	323.9	10.3	273.0	9.3	49.0
300x300	254.0	254.0	318.5	6.9	318.5	6.9	35.4	318.5	10.3	318.5	10.3	52.0
12x12	254.0	254.0	323.9	6.9	323.9	6.9	35.4	323.9	10.3	323.9	10.3	52.0
350x250	279.4	268.0	355.6	7.9	267.4	6.6	43.8	355.6	11.1	267.4	9.3	63.0
14x10	279.4	268.0	355.6	7.9	273.0	6.6	43.8	355.6	11.1	273.0	9.3	63.0
350x300	279.4	280.0	355.6	7.9	318.5	6.9	45.5	355.6	11.1	318.5	10.3	65.9
14x12	279.4	280.0	355.6	7.9	323.9	6.9	45.5	355.6	11.1	323.9	10.3	65.9
350x350 14x14	279.4	290.0	355.6	7.9	355.6	7.9	46.9	355.6	11.1	355.6	11.1	68.4
400x250	304.8	300.0	406.4	7.9	267.4	6.6	53.8	406.4	12.7	267.4	9.3	90.0
16x10	304.8	300.0	406.4	7.9	273.0	6.6	53.8	406.4	12.7	273.0	9.3	90.0
400x300	304.8	305.0	406.4	7.9	318.5	6.9	55.0	406.4	12.7	318.5	10.3	90.5
16x12	304.8	305.0	406.4	7.9	323.9	6.9	55.0	406.4	12.7	323.9	10.3	90.5
400x350 16x14	304.8	315.0	406.4	7.9	355.6	7.9	56.5	406.4	12.7	355.6	11.1	93.2
400x400 16x16	304.8	315.0	406.4	7.9	406.4	7.9	57.6	406.4	12.7	406.4	12.7	96.4
450x350 18x14	342.9	340.0	457.2	7.9	355.6	7.9	69.3	457.2	14.3	355.6	11.1	128.0
450x400 18x16	342.9	340.0	457.2	7.9	406.4	7.9	70.4	457.2	14.3	406.4	12.7	132.0
450x450 18x18	342.9	353.0	457.2	7.9	457.2	7.9	72.7	457.2	14.3	457.2	14.3	137.5
500x400 20x16	381.0	366.0	508.0	7.9	406.4	7.9	84.8	508.0	15.1	406.4	12.7	169.0
500x450 20x18	381.0	379.0	508.0	7.9	457.2	7.9	87.1	508.0	15.1	457.2	14.3	174.0
500x500 20x20	381.0	391.0	508.0	7.9	508.0	7.9	89.5	508.0	15.1	508.0	15.1	180.0
550x450 22x18	419.1	404.0	558.8	7.9	457.2	7.9	105.4	558.8	15.1	457.2	14.3	—
550x500 22x20	419.1	417.0	558.8	7.9	508.0	7.9	107.9	558.8	15.1	508.0	15.1	—
550x550 22x22	419.1	429.0	558.8	7.9	558.8	7.9	108.1	558.8	15.1	558.8	15.1	—
600x500 24x20	431.8	442.0	609.6	7.9	508.0	7.9	116.9	609.6	17.4	508.0	15.1	—
600x550 24x22	431.8	442.0	609.6	7.9	558.8	7.9	118.3	609.6	17.4	558.8	15.1	—
600x600 24x24	431.8	442.0	609.6	7.9	609.6	7.9	119.7	609.6	17.4	609.6	17.4	—

Contact us special size

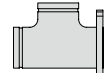
* Contact us special size (ANSI)



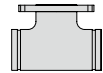
A type TEE (Grooved x Grooved x Butt Welded)



B type TEE (Grooved x Butt Welded x Grooved)



A type TEE (Grooved x Grooved x Flanged)

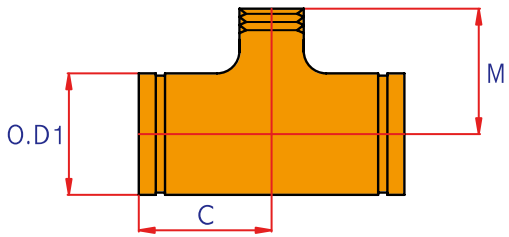


B type TEE (Grooved x Flanged x Grooved)

Grooved Tee

Threaded Outlet

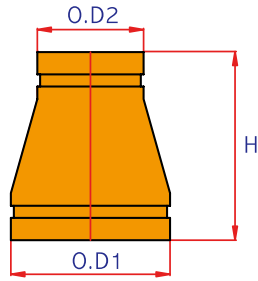
- Mat'l : SPP, SPPS250
- Paint : Epoxy Coat



Nominal Size DN inch		Center to End		Normal Pressure(SPP)			High pressure(S40)		
				Run		Outlet	Run		Outlet
		C (mm)	M (mm)	Outside Dia OD1 (mm)	Wall Thick T1 (mm)	Threaded Scket Length(mm)	Outside Dia OD2 (mm)	Wall Thick T2 (mm)	Threaded Scket Length(mm)
50 2	25 1	81.0	84.0	60.5	3.8	43.0	60.5	3.9	43.0
	32 1.1/4	81.0	99.0	60.5	3.8	48.0	60.5	3.9	48.0
	40 1.1/2	81.0	99.0	60.5	3.8	48.0	60.5	3.9	48.0
65 2.1/2	25 1	94.0	92.0	76.3 73.0	4.2	43.0	76.3 73.0	5.2	43.0
	32 1.1/4	94.0	97.0	76.3 73.0	4.2	48.0	76.3 73.0	5.2	48.0
	40 1.1/2	94.0	97.0	76.3 73.0	4.2	48.0	76.3 73.0	5.2	48.0
	50 2	94.0	107.0	76.3 73.0	4.2	56.0	76.3 73.0	5.2	56.0
80 3	25 1	101.0	98.0	89.1	4.2	43.0	89.1	5.5	43.0
	32 1.1/4	101.0	103.0	89.1	4.2	48.0	89.1	5.5	48.0
	40 1.1/2	101.0	103.0	89.1	4.2	48.0	89.1	5.5	48.0
	50 2	101.0	113.0	89.1	4.2	58.0	89.1	5.5	58.0
100 4	20 3/4	125.0	106.0	114.3	4.5	36.0	114.3	6.0	36.0
	25 1	125.0	111.0	114.3	4.5	43.0	114.3	6.0	43.0
	32 1.1/4	125.0	116.0	114.3	4.5	48.0	114.3	6.0	48.0
	40 1.1/2	125.0	116.0	114.3	4.5	48.0	114.3	6.0	48.0
125 5	50 2	125.0	126.0	114.3	4.5	58.0	114.3	6.0	58.0
	25 1	123.8	123.0	139.8 141.3	4.5	43.0	139.8 141.3	6.6	43.0
	32 1.1/4	123.8	128.0	139.8 141.3	4.5	48.0	139.8 141.3	6.6	48.0
	40 1.1/2	123.8	128.0	139.8 141.3	4.5	48.0	139.8 141.3	6.6	48.0
150 6	50 2	123.8	138.0	139.8 141.3	4.5	58.0	139.8 141.3	6.6	58.0
	25 1	142.9	136.0	165.2 168.3	5.0	43.0	165.2 168.3	7.1	43.0
	32 1.1/4	142.9	141.0	165.2 168.3	5.0	48.0	165.2 168.3	7.1	48.0
	40 1.1/2	142.9	141.0	165.2 168.3	5.0	48.0	165.2 168.3	7.1	48.0
150 6	50 2	142.9	151.0	165.2 168.3	5.0	58.0	165.2 168.3	7.1	58.0

Grooved Reducer

Grooved Outlet



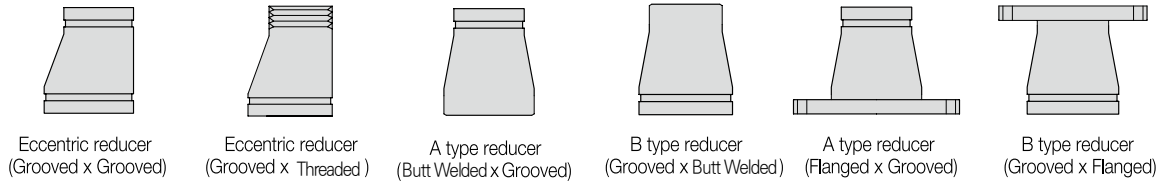
- Mat'l : SPP, SPPS250
- Paint : Epoxy Coat

Nominal Size DN inch	End to End H (mm)	Normal Pressure(SPP)					High pressure(S40)				
		Large End		Small End		Weight(Kg)	Large End		Small End		Weight(Kg)
		Outside Dia OD1 (mm)	Wall Thick T1 (mm)	Outside Dia OD2 (mm)	Wall Thick T2 (mm)		Outside Dia OD1 (mm)	Wall Thick T1 (mm)	Outside Dia OD2 (mm)	Wall Thick T2 (mm)	
50x40 2x1.1/2	105	60.5	3.8	48.6	3.5	0.4	60.5	3.9	48.6	3.7	0.4
65x50	113	76.3	4.2	60.5	3.8	0.7	76.3	5.2	60.5	3.9	0.7
2.1/2x2	113	73.0	4.2	60.5	3.8	0.7	73.0	5.2	60.5	3.9	0.7
80x50 3x2	120	89.1	4.2	60.5	3.8	0.8	89.1	5.5	60.5	3.9	0.8
80x65	120	89.1	4.2	76.3	4.2	0.9	89.1	5.5	76.3	5.2	0.9
3x2.1/2	120	89.1	4.2	73.0	4.2	0.9	89.1	5.5	73.0	5.2	0.9
100x50 4x2	135	114.3	4.5	60.5	3.8	1.2	114.3	6.0	60.5	3.9	1.4
100x65	135	114.3	4.5	76.3	4.2	1.2	114.3	6.0	76.3	5.2	1.5
4x2.1/2	135	114.3	4.5	73.0	4.2	1.2	114.3	6.0	73.0	5.2	1.5
100x80 4x3	135	114.3	4.5	89.1	4.2	1.3	114.3	6.0	89.1	5.5	1.6
125x65	161	139.8	4.5	76.3	4.2	1.8	139.8	6.6	76.3	5.2	2.3
5x2.1/2	161	141.3	4.5	73.0	4.2	1.8	141.3	6.6	73.0	5.2	2.3
125x80	161	139.8	4.5	89.1	4.2	1.9	139.8	6.6	89.1	5.5	2.5
5x3	161	141.3	4.5	89.1	4.2	1.9	141.3	6.6	89.1	5.5	2.5
125x100	161	139.8	4.5	114.3	4.5	2.0	139.8	6.6	114.3	6.0	2.8
5x4	161	141.3	4.5	114.3	4.5	2.0	141.3	6.6	114.3	6.0	2.8
150x80	171	165.2	5.0	89.1	4.2	2.5	165.2	7.1	89.1	5.5	3.5
6x3	171	168.3	5.0	89.1	4.2	2.5	168.3	7.1	89.1	5.5	3.5
150x100	171	165.2	5.0	114.3	4.5	2.7	165.2	7.1	114.3	6.0	3.7
6x4	171	168.3	5.0	114.3	4.5	2.7	168.3	7.1	114.3	6.0	3.7
150x125	171	165.2	5.0	139.8	4.5	2.9	165.2	7.1	139.8	6.6	3.9
6x5	171	168.3	5.0	141.3	4.5	2.9	168.3	7.1	141.3	6.6	3.9
200x100	190	216.3	5.8	114.3	4.5	4.3	216.3	8.2	114.3	6.0	5.8
8x4	190	219.1	5.8	114.3	4.5	4.3	219.1	8.2	114.3	6.0	5.8
200x125	190	216.3	5.8	139.8	4.5	4.5	216.3	8.2	139.8	6.6	6.0
8x5	190	219.1	5.8	141.3	4.5	4.5	219.1	8.2	139.8	6.6	6.0
200x150	190	216.3	5.8	165.2	5.0	4.7	216.3	8.2	165.2	7.1	6.3
8x6	190	219.1	5.8	168.3	5.0	4.7	219.1	8.2	168.3	7.1	6.3
250x125	220	267.4	6.6	139.8	4.5	6.9	267.4	9.3	139.8	6.6	9.5

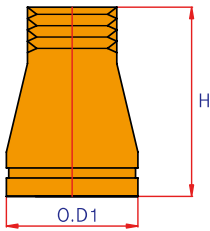
10x5	220	273.0	6.6	141.3	4.5	6.9	273.0	9.3	141.3	6.6	9.5
250x150	220	267.4	6.6	165.2	5.0	7.2	267.4	9.3	165.2	7.1	9.8
10x6	220	273.0	6.6	168.3	5.0	7.2	273.0	9.3	168.3	7.1	9.8
250x200	220	267.4	6.6	216.3	5.8	7.7	267.4	9.3	216.3	8.2	10.5
10x8	220	273.0	6.6	219.1	5.8	7.7	273.0	9.3	219.1	8.2	10.5
300x150	240	318.5	6.9	165.2	5.0	9.7	318.5	10.3	165.2	7.1	15.1
12x6	240	323.9	6.9	168.3	5.0	9.7	323.9	10.3	168.3	7.1	15.1
300x200	240	318.5	6.9	216.3	5.8	10.3	318.5	10.3	216.3	8.2	15.7
12x8	240	323.9	6.9	219.1	5.8	10.3	323.9	10.3	219.1	8.2	15.7
300x250	240	318.5	6.9	267.4	6.6	11.0	318.5	10.3	267.4	9.3	16.2
12x10	240	323.9	6.9	273.0	6.6	11.0	323.9	10.3	273.0	9.3	16.2
350x200	330.2	355.6	7.9	216.3	5.8	19.8	355.6	11.1	216.3	8.2	29.5
14x8	330.2	355.6	7.9	219.1	5.8	19.8	355.6	11.1	219.1	8.2	29.5
350x250	330.2	355.6	7.9	267.4	6.6	20.2	355.6	11.1	267.4	9.3	30.2
14x10	330.2	355.6	7.9	273.0	6.6	20.2	355.6	11.1	273.0	9.3	30.2
350x300	330.2	355.6	7.9	318.5	6.9	21.9	355.6	11.1	318.5	10.3	32.5
14x12	330.2	355.6	7.9	323.9	6.9	21.9	355.6	11.1	323.9	10.3	32.5
400x250	355.6	406.4	7.9	267.4	6.6	24.0	406.4	12.7	267.4	9.3	41.0
16x10	355.6	406.4	7.9	273.0	6.6	24.0	406.4	12.7	273.0	9.3	41.0
400x300	355.6	406.4	7.9	318.5	6.9	25.4	406.4	12.7	318.5	10.3	43.7
16x12	355.6	406.4	7.9	323.9	6.9	25.4	406.4	12.7	323.9	10.3	43.7
400x350	355.6	406.4	7.9	355.6	7.9	26.6	406.4	12.7	355.6	11.1	45.2
450x300	381	457.2	7.9	318.5	6.9	29.0	457.2	14.3	318.5	10.3	54.0
18x12	381	457.2	7.9	323.9	6.9	29.0	457.2	14.3	323.9	10.3	54.0
450x350	381	457.2	7.9	355.6	7.9	30.5	457.2	14.3	355.6	11.1	57.0
450x400	381	457.2	7.9	406.4	7.9	32.4	457.2	14.3	406.4	12.7	62.0
500x350	508	508.0	7.9	355.6	7.9	43.0	508.0	15.1	355.6	11.1	88.0
500x400	508	508.0	7.9	406.4	7.9	45.5	508.0	15.1	406.4	12.7	92.0
500x450	508	508.0	7.9	457.2	7.9	50.0	508.0	15.1	457.2	14.3	97.4
550x450	508	558.8	7.9	457.2	7.9	51.0	558.8	15.1	457.2	14.3	—
550x500	508	558.8	7.9	508.0	7.9	53.1	558.8	15.1	508.0	15.1	—
600x500	508	609.6	7.9	508.0	7.9	55.7	609.6	17.4	508.0	15.1	—
600x550	508	609.6	7.9	558.8	7.9	58.2	609.6	17.4	558.8	15.1	—

※ Contact us special size (ANSI)

Contact us special size

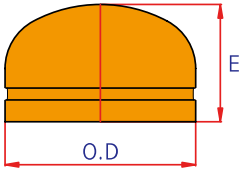


Threaded Outlet



- Mat'l : SPP, SPPS250
- Paint : Epoxy Coat

Grooved Cap



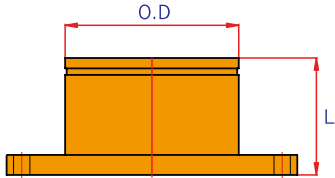
- Mat'l : SPP, SPPS250
- Paint : Epoxy Coat

			Normal pressure (SPP)			High pressure (S40)		
Nominal Size DN inch	End to End H(mm)		Large End		Small End	Large End		Small End
			Outside Dia OD1 (mm)	Wall Thick T1 (mm)	Threaded Scket Length(mm)	Outside Dia OD2 (mm)	Wall Thick T2 (mm)	Threaded Scket Length(mm)
65 2,1/2	40 1,1/2	153.0	76.3 73.0	4.2	48.0	76.3 73.0	5.2	48.0
	50 2	161.0	76.3 73.0	4.2	56.0	76.3 73.0	5.2	56.0
80 3	40 1,1/2	153.0	89.1	4.2	48.0	89.1	5.5	48.0
	50 2	161.0	89.1	4.2	56.0	89.1	5.5	56.0
100 4	15 1/2	109.0	114.3	4.5	34.0	114.3	6.0	34.0
	20 3/4	112.0	114.3	4.5	36.0	114.3	6.0	36.0
	25 1	117.0	114.3	4.5	43.0	114.3	6.0	43.0
	40 1,1/2	168.0	114.3	4.5	48.0	114.3	6.0	48.0

Nominal Size DN Inch	Outside Dia OD (mm)	E (mm)	Normal Pressure(SPP)		High pressure(S40)	
			Wall Thick T (mm)	Weight(Kg)	Wall Thick T (mm)	Weight(Kg)
40 1,1/2	48.6	45.0	3.5	0.2	3.7	0.2
50 2	60.5	50.0	3.8	0.3	3.9	0.3
65	76.3	55.0	4.2	0.5	5.2	0.5
2,1/2	73.0	55.0	4.2	0.5	5.2	0.5
80 3	89.1	65.0	4.2	0.6	5.5	0.7
100 4	114.3	74.0	4.5	1.0	6.0	1.3
125	139.8	76.2	4.5	1.5	6.6	2.1
5	141.3	76.2	4.5	1.5	6.6	2.1
150	165.2	88.9	5.0	2.1	7.1	3.1
6	168.3	88.9	5.0	2.1	7.1	3.1
200	216.3	101.6	5.8	4.0	8.2	5.6
8	219.1	101.6	5.8	4.0	8.2	5.6
250	267.4	127.0	6.6	6.6	9.3	9.8
10	273.0	127.0	6.6	6.6	9.3	9.8
300	318.5	152.4	6.9	9.8	10.3	15.5
12	323.9	152.4	6.9	9.8	10.3	15.5
350 14	355.6	165.1	7.9	18.1	11.1	20.4
400 16	406.4	177.8	7.9	22.5	12.7	29.3
450 18	457.2	203.2	7.9	27.5	14.3	45.6
500 20	508.0	228.6	7.9	34.9	15.1	59.5
550 22	558.8	254.0	7.9	41.6	15.1	—
600 24	609.6	266.7	7.9	48.9	17.4	—

※ Contact us special size (ANSI)

Grooved Flange Adaptor



- Mat'l : SPP, SPPS250
- Paint : Epoxy Coat

Nominal Size DN inch	Outside Dia OD (mm)	L (mm)	Normal Pressure(10K)				High Pressure(20K)			
			Bolt hole		Wall Thick T (mm)	Weight(Kg)	Bolt hole		Wall Thick T (mm)	Weight(Kg)
			Hole quantity (ea)	Diameter (Ø)			Hole quantity (ea)	Diameter (Ø)		
40 1.1/2	48.6	75	4	18	3.5	1.8	4	18	3.7	2.0
50 2	60.5	80	4	18	3.8	2.3	8	18	3.9	2.8
65 2.1/2	76.3	85	4	18	4.2	3.1	8	18	5.2	4.1
80 3	89.1	85	8	18	4.2	3.3	8	22	5.5	4.5
100 4	114.3	90	8	18	4.5	4.2	8	22	6.0	6.4
125 5	139.8	95	8	22	4.5	6.3	8	24	6.6	10.1
150 6	165.2	100	8	22	5.0	8.3	12	24	7.1	11.8
200 8	216.3	115	12	22	5.8	11.0	12	24	8.2	15.3
250 10	267.4	120	12	24	6.6	17.6	12	26	9.3	28.6
300 12	318.5	120	16	24	6.9	20.3	16	26	10.3	35.2
350 14	355.6	190	16	24	7.9	30.6	16	32	11.1	53.1
400 16	406.4	220	16	26	7.9	42.3	16	32	12.7	73.3
450 18	457.2	225	20	26	7.9	52.7	20	32	14.3	96.4
500 20	508.0	260	20	26	7.9	62.9	20	32	15.1	114.5
550 22	558.8	280	20	32	7.9	79.7	20	38	15.1	138.5
600 24	609.6	285	24	32	7.9	86.0	24	38	17.4	156.4

※ Contact us special size (ANSI)

Special order-made End machining fittings

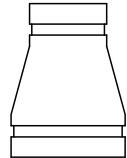
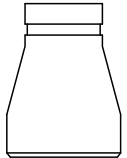
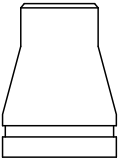
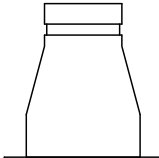
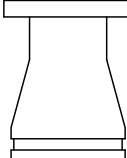
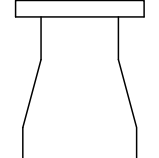
ELBOW

Elbow (Grooved Butt Welded)	Elbow (Grooved Butt Welded)	Elbow (Flanged x Grooved)	Elbow (Flanged)

TEE

TEE (Grooved)	A type TEE (Grooved x Grooved x Butt Welded)	B type TEE (Grooved x Butt Welded x Grooved)	A type TEE (Butt Welded x Grooved x Butt Welded)
B type TEE (Butt Welded x Butt Welded x Grooved)	A type TEE (Grooved x Grooved x Flanged)	B type TEE (Butt Welded x Flanged x Grooved)	A type TEE (Flanged x Grooved x Flanged)
B type TEE (Flanged x Flanged x Grooved)	TEE (Flanged)		

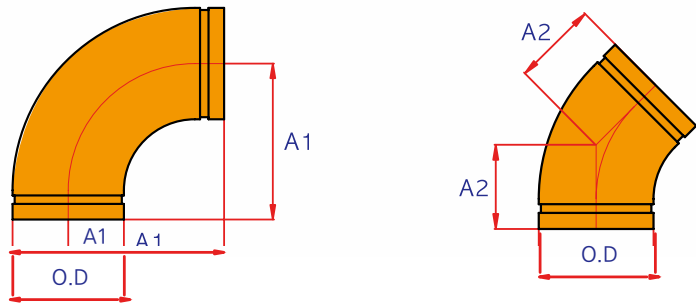
○ REDUCER

			
Concentric reducer	A type Concentric reducer (Butt Welded x Grooved)	B type Concentric reducer (Grooved x Butt Welded)	A type Concentric reducer (Flanged x Grooved)
			
B type Concentric reducer (Grooved x Flanged)	Concentric reducer (Flanged)		

STS Grooved fittings

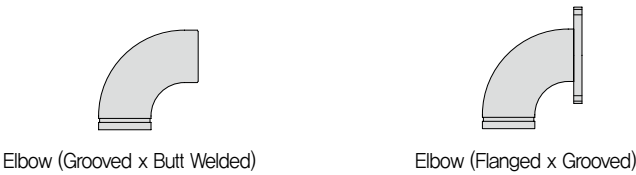
STS Grooved Elbow

Mat'l : STS304 (S10S,S20S)



Nominal Size DN inch	Pipe O,D (mm)	Wall Thick T (mm)	90 Elbow		45 Elbow	
			A1(mm)	Weight(Kg)	A2(mm)	Weight(Kg)
40 1.1/2	48.6	2.8	77	0.4	47	0.3
50 2	60.5	2.8	94	0.6	54	0.3
65 2.1/2	76.3	3	110	0.9	60	0.5
80 3	89.1	3	129	1.3	71	0.7
100 4	114.3	3	160	2.1	84	1.1
125 5	139.8	3.4	191	3.5	99	1.8
150 6	165.2	3.4	229	4.9	115	2.5
200 8	216.3	4	305	10.1	150	5
250 10	267.4	4	381	15.7	181	7.5
300 12	318.5	4.5	457	25.3	219	12.1

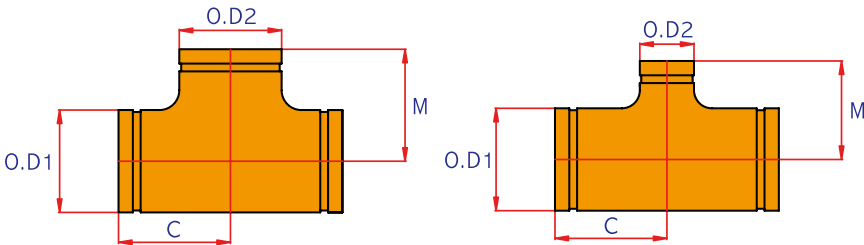
Order made products



STS Grooved Tee

Grooved Outlet

Mat'l : STS304 (S10S,S20S)



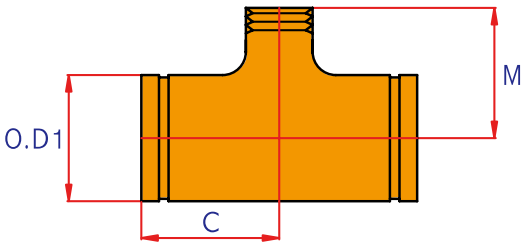
Nominal Size DN inch	Center to End		RUN		Outlet		Weight (Kg)	Nominal Size DN inch	Center to End		RUN		Outlet		Weight (Kg)
	C(mm)	M(mm)	Outside Dia OD1 (mm)	Wall Thick T1 (mm)	Out-side Dia OD2 (mm)	Wall Thick T2 (mm)			C(mm)	M(mm)	Outside Dia OD1 (mm)	Wall Thick T1 (mm)	Out-side Dia OD2 (mm)	Wall Thick T2 (mm)	
50x50 2x2	81.0	81.0	60.5	2.8	60.5	2.8	0.9	200x125	177.8	163.0	216.3	4.0	139.8	3.4	9.5
65x50	94.0	90.0	76.3	3.0	60.5	2.8	1.2	8x5	177.8	163.0	219.1	4.0	141.3	3.4	9.5
2.1/2x2	94.0	90.0	73.0	3.0	60.5	2.8	1.2	200x150	177.8	168.0	216.3	4.0	165.2	3.4	9.8
65x65	94.0	94.0	76.3	3.0	76.3	3.0	1.3	8x6	177.8	168.0	219.1	4.0	168.3	3.4	9.8
2.1/2x2.1/2	94.0	94.0	73.0	3.0	73.0	3.0	1.3	200x200	177.8	180.0	216.3	4.0	216.3	4.0	10.6
80x50 3x2	101.0	93.0	89.1	3.0	60.5	2.8	1.5	8x8	177.8	180.0	219.1	4.0	219.1	4.0	10.6
80x65	101.0	98.0	89.1	3.0	76.3	3.0	1.6	250x125	215.9	215.9	267.4	4.0	139.8	3.4	13.4
3x2.1/2	101.0	98.0	89.1	3.0	73.0	3.0	1.6	10x5	215.9	215.9	273.0	4.0	141.3	3.4	13.4
80x80 3x3	101.0	101.0	89.1	3.0	89.1	3.0	1.7	250x150	215.9	215.9	267.4	4.0	165.2	3.4	13.7
100x50 4x2	125.0	110.0	114.3	3.0	60.5	2.8	2.3	10x6	215.9	215.9	273.0	4.0	168.3	3.4	13.7
100x65	125.0	118.0	114.3	3.0	76.3	3.0	2.4	250x200	215.9	215.9	267.4	4.0	216.3	4.0	14.6
4x2.1/2	125.0	118.0	114.3	3.0	73.0	3.0	2.4	10x8	215.9	215.9	273.0	4.0	219.1	4.0	14.6
100x80 4x3	125.0	121.0	114.3	3.0	89.1	3.0	2.5	250x250	215.9	215.9	267.4	4.0	267.4	4.0	15.4
100x100 4x4	125.0	125.0	114.3	3.0	114.3	3.0	2.6	10x10	215.9	215.9	273.0	4.0	273.0	4.0	15.4
125x65	123.8	116.0	139.8	3.4	76.3	3.0	3.7	300x150	254.0	235.0	318.5	4.5	165.2	3.4	20.6
5x2.1/2	123.8	116.0	141.3	3.4	73.0	3.0	3.7	12x6	254.0	235.0	323.9	4.5	168.3	3.4	20.6
125x80	123.8	120.0	139.8	3.4	89.1	3.0	3.7	300x200	254.0	254.0	318.5	4.5	216.3	4.0	21.4
5x3	123.8	120.0	141.3	3.4	89.1	3.0	3.7	12x8	254.0	254.0	323.9	4.5	219.1	4.0	21.4
125x100	123.8	124.0	139.8	3.4	114.3	3.0	3.9	300x250	254.0	254.0	318.5	4.5	267.4	4.0	22.3
5x4	123.8	124.0	141.3	3.4	114.3	3.0	3.9	12x10	254.0	254.0	323.9	4.5	273.0	4.0	22.3
125x125	123.8	125.0	139.8	3.4	139.8	3.4	4.0	300x300	254.0	254.0	318.5	4.5	318.5	4.5	23.6
5x5	123.8	125.0	141.3	3.4	141.3	3.4	4.2	12x12	254.0	254.0	323.9	4.5	323.9	4.5	23.6
150x80	142.9	132.0	165.2	3.4	89.1	3.0	4.9	350x250	279.4	268.0	355.6	4.8	267.4	4.2	24.7
6x3	142.9	132.0	168.3	3.4	89.1	3.0	4.9	14x10	279.4	268.0	355.6	4.8	273.0	4.2	24.7
150x100	142.9	138.0	165.2	3.4	114.3	3.0	5.1	350x300	279.4	280.0	355.6	4.8	318.5	4.6	25.8
6x4	142.9	138.0	168.3	3.4	114.3	3.0	5.1	14x12	279.4	280.0	355.6	4.8	323.9	4.6	25.8
150x125	142.9	144.0	165.2	3.4	139.8	3.4	5.2	400x250	304.8	300.0	406.4	4.8	267.4	4.2	28.9
6x5	142.9	144.0	168.3	3.4	141.3	3.4	5.2	16x10	304.8	300.0	406.4	4.8	273.0	4.2	28.9
150x150	142.9	144.0	165.2	3.4	165.2	3.4	3.4	400x300	304.8	305.0	406.4	4.8	318.5	4.8	30.2
6x6	142.9	144.0	168.3	3.4	168.3	3.4	5.6	16x12	304.8	305.0	406.4	4.8	323.9	4.8	30.2
200x100	177.8	163.0	216.3	4.0	114.3	3.0	9.2	450x350 18x14	342.9	340.0	457.2	4.8	355.6	4.8	38.4
8x4	177.8	163.0	219.1	4.0	114.3	3.0	9.2	450x400 18x16	342.9	340.0	457.2	4.8	406.4	4.8	40.1
								500x400 20x16	381.0	366.0	508.0	5.5	406.4	4.8	55.0
								500x450 20x18	381.0	379.0	508.0	5.5	457.2	4.8	57.0

※ Contact us special size (ANSI)

STS Grooved Tee

Threaded Outlet

Mat'l : STS304 (S10S,S20S)

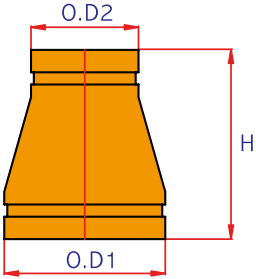


Nominal Size DN inch		Center to End		Run		Outlet
		C (mm)	M (mm)	Outside Dia OD1 (mm)	Wall Thick T1 (mm)	Threaded Soket Length(mm)
65 2.1/2	15 1/2	94.0	84.0	76.3 73.0	3.0	34.0
	20 3/4	94.0	85.0	76.3 73.0	3.0	36.0
	25 1	94.0	92.0	76.3 73.0	3.0	43.0
	32 1.1/4	94.0	97.0	76.3 73.0	3.0	48.0
	40 1.1/2	94.0	97.0	76.3 73.0	3.0	48.0
	50 2	94.0	107.0	76.3 73.0	3.0	56.0
80 3	15 1/2	101.0	90.0	89.1	3.0	34.0
	20 3/4	101.0	93.0	89.1	3.0	36.0
	25 1	101.0	98.0	89.1	3.0	43.0
	32 1.1/4	101.0	103.0	89.1	3.0	48.0
	40 1.1/2	101.0	103.0	89.1	3.0	48.0
	50 2	101.0	113.0	89.1	3.0	58.0
100 4	15 1/2	125.0	103.0	114.3	3.0	34.0
	20 3/4	125.0	106.0	114.3	3.0	36.0
	25 1	125.0	111.0	114.3	3.0	43.0
	32 1.1/4	125.0	116.0	114.3	3.0	48.0
	40 1.1/2	125.0	116.0	114.3	3.0	48.0
	50 2	125.0	126.0	114.3	3.0	58.0
125 5	15 1/2	123.8	115.0	139.8 141.3	3.4	34.0
	20 3/4	123.8	118.0	139.8 141.3	3.4	36.0
	25 1	123.8	123.0	139.8 141.3	3.4	43.0
	32 1.1/4	123.8	128.0	139.8 141.3	3.4	48.0
	40 1.1/2	123.8	128.0	139.8 141.3	3.4	48.0
	50 2	123.8	138.0	139.8 141.3	3.4	58.0
150 6	15 1/2	142.9	128.0	165.2 168.3	3.4	34.0
	20 3/4	142.9	131.0	165.2 168.3	3.4	36.0
	25 1	142.9	136.0	165.2 168.3	3.4	43.0
	32 1.1/4	142.9	141.0	165.2 168.3	3.4	48.0
	40 1.1/2	142.9	141.0	165.2 168.3	3.4	48.0
	50 2	142.9	151.0	165.2 168.3	3.4	58.0

STS Grooved Reducer

Grooved Outlet

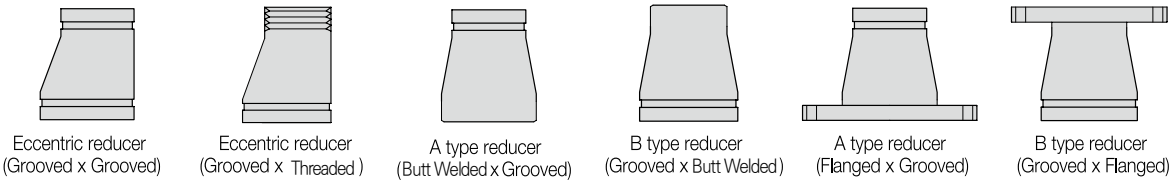
Mat'l : STS304 (S10S,S20S)



Nominal Size DN inch	End to End H (mm)	Large End		Small End		Weight (Kg)
		Outside Dia OD1 (mm)	Wall Thick T1 (mm)	Outside Dia OD2 (mm)	Wall Thick T2 (mm)	
65x50	113	76.3	3.0	60.5	2.8	0.5
2.1/2x2	113	73.0	3.0	60.5	2.8	0.5
80x50 3x2	120	89.1	3.0	60.5	2.8	0.6
80x65	120	89.1	3.0	76.3	3.0	0.6
3x2.1/2	120	89.1	3.0	73.0	3.0	0.6
100x50 4x2	135	114.3	3.0	60.5	2.8	0.6
100x65	135	114.3	3.0	76.3	3.0	0.8
4x2.1/2	135	114.3	3.0	73.0	3.0	0.8
100x80 4x3	135	114.3	3.0	89.1	3.0	0.9
125x65	161	139.8	3.4	76.3	3.0	1.4
5x2.1/2	161	141.3	3.4	73.0	3.0	1.4
125x80	161	139.8	3.4	89.1	3.0	1.4
5x3	161	141.3	3.4	89.1	3.0	1.4
125x100	161	139.8	3.4	114.3	3.0	1.5
5x4	161	141.3	3.4	114.3	3.0	1.5
150x80	171	165.2	3.4	89.1	3.0	1.7
6x3	171	168.3	3.4	89.1	3.0	1.7
150x100	171	165.2	3.4	114.3	3.0	1.8
6x4	171	168.3	3.4	114.3	3.0	1.8
150x125	171	165.2	3.4	139.8	3.4	2.0
6x5	171	168.3	3.4	141.3	3.4	2.0
200x100	191	216.3	4.0	114.3	3.0	3.0
8x4	191	219.1	4.0	114.3	3.0	3.0
200x125	191	216.3	4.0	139.8	3.4	3.1
8x5	191	219.1	4.0	141.3	3.4	3.1
200x150	191	216.3	4.0	165.2	3.4	3.3
8x6	191	219.1	4.0	168.3	3.4	3.3
250x125	220	267.4	4.0	139.8	3.4	4.3
10x5	220	273.0	4.0	141.3	3.4	4.3

Nominal Size DN inch	End to End H (mm)	Large End		Small End		Weight (Kg)
		Outside Dia OD1 (mm)	Wall Thick T1 (mm)	Outside Dia OD2 (mm)	Wall Thick T2 (mm)	
250x150	220	267.4	4.0	165.2	3.4	4.4
10x6	220	273.0	4.0	168.3	3.4	4.4
250x200	220	267.4	4.0	216.3	4.0	4.8
10x8	220	273.0	4.0	219.1	4.0	4.8
300x150	240	318.5	4.5	165.2	3.4	6.4
12x6	240	323.9	4.5	168.3	3.4	6.4
300x200	240	318.5	4.5	216.3	4.0	6.8
12x8	240	323.9	4.5	219.1	4.0	6.8
300x250	240	318.5	4.5	267.4	4.0	7.2
12x10	240	323.9	4.5	273.0	4.0	7.2
350X200	330.2	355.6	4.8	216.3	3.8	11.2
14x8	330.2	355.6	4.8	219.1	3.8	11.2
350X250	330.2	355.6	4.8	267.4	4.2	12.1
14x10	330.2	355.6	4.8	273.0	4.2	12.1
350X300	330.2	355.6	4.8	318.5	4.6	13.2
14x12	330.2	355.6	4.8	323.9	4.6	13.2
400X250	355.6	406.4	4.8	267.4	4.2	13.6
16x10	355.6	406.4	4.8	273.0	4.2	13.6
400X300	355.6	406.4	4.8	318.5	4.6	14.8
16x12	355.6	406.4	4.8	323.9	4.6	14.8
400X350 16x14	355.6	406.4	4.8	355.6	4.8	16.1
450X300	381	457.2	4.8	318.5	4.6	16.5
18x12	381	457.2	4.8	323.9	4.6	16.5
450X350 18x14	381	457.2	4.8	355.6	4.8	17.9
450X400 18x16	381	457.2	4.8	406.4	4.8	19.5
500X350 20x14	508	508.0	5.5	355.6	4.8	28.2
500X400 20x16	508	508.0	5.5	406.4	4.8	30.0
550X450 22x18	508	558.8	5.5	457.2	4.8	33.3

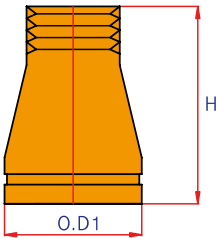
Order made products



STS Grooved Reducer

Threaded Outlet

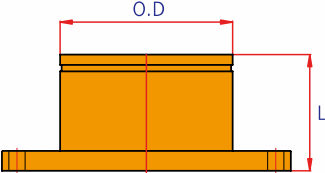
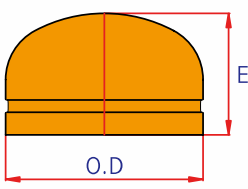
Mat'l : STS304 (S10S,S20S)



Nominal Size DN inch	End to End H(mm)	Large End		Small End	Threaded Soket Length(mm)	Nominal Size DN inch	End to End H(mm)	Large End		Small End	Threaded Soket Length(mm)
		Outside Dia OD1 (mm)	Wall Thick T1 (mm)					Outside Dia OD1 (mm)	Wall Thick T1 (mm)		
65 2.1/2	15 1/2	80.0	76.3 73.0	3.0	34.0	125 5	15 1/2	115.0	139.8 141.3	3.4	34.0
	20 3/4	88.0	76.3 73.0	3.0	36.0		20 3/4	118.0	139.8 141.3	3.4	36.0
	25 1	148.0	76.3 73.0	3.0	43.0		25 1	123.0	139.8 141.3	3.4	43.0
	32 1.1/4	153.0	76.3 73.0	3.0	48.0		32 1.1/4	128.0	139.8 141.3	3.4	48.0
	40 1.1/2	153.0	76.3 73.0	3.0	48.0		40 1.1/2	128.0	139.8 141.3	3.4	48.0
	50 2	161.0	76.3 73.0	3.0	56.0		50 2	202.0	139.8 141.3	3.4	56.0
80 3	15 1/2	100.0	89.1	3.0	34.0	150 6	15 1/2	125.0	165.2 168.3	3.4	34.0
	20 3/4	103.0	89.1	3.0	36.0		20 3/4	128.0	165.2 168.3	3.4	36.0
	25 1	108.0	89.1	3.0	43.0		25 1	133.0	165.2 168.3	3.4	43.0
	32 1.1/4	153.0	89.1	3.0	48.0		32 1.1/4	138.0	165.2 168.3	3.4	48.0
	40 1.1/2	153.0	89.1	3.0	48.0		40 1.1/2	138.0	165.2 168.3	3.4	48.0
	50 2	161.0	89.1	3.0	56.0		50 2	148.0	165.2 168.3	3.4	56.0
100 4	15 1/2	109.0	114.3	3.0	34.0						
	20 3/4	112.0	114.3	3.0	36.0						
	25 1	117.0	114.3	3.0	43.0						
	32 1.1/4	122.0	114.3	3.0	48.0						
	40 1.1/2	168.0	114.3	3.0	48.0						
	50 2	176.0	114.3	3.0	56.0						

STS Grooved Cap/STS Grooved Flange Adapter

Mat'l : STS304 (S10S,S20S)



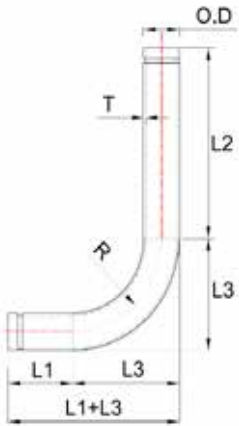
Cap

Flange Adapter

Nominal Size DN inch	Outside Dia OD (mm)	E (mm)	Wall Thick T (mm)	Weight (Kg)	Normal Pressure(10K)								High Pressure(20K)			
					Nom- inal Size DN inch	Out- side Dia OD (mm)	L (mm)	Bolt hole		Wall Thick T (mm)	Weight (Kg)	Bolt hole		Wall Thick T (mm)	Weight (Kg)	
								Hole quan- tity (ea)	Di- am- eter (Ø)			Hole quan- tity (ea)	Diam- eter (Ø)			
40 1.1/2	48.6	45	2.8	0.2	40 1.1/2	48.6	75	4	19	2.8	1.7	4.0	19.0	3.0	2.1	
50 2	60.5	50	2.8	0.2	50 2	60.5	80	4	19	2.8	2.0	8.0	19.0	3.5	2.3	
65	76.3	55	3.0	0.4	65	76.3	85	4	19	3.0	2.8	8.0	19.0	3.5	3.1	
2.1/2	73.0	55	3.0	0.4	2.1/2	73.0	85	4	19	3.0	2.8	8.0	19.0	3.5	3.1	
80 3	89.1	65	3.0	0.5	80 3	89.1	85	8	19	3.0	2.9	8.0	23.0	4.0	4.5	
100 4	114.3	74	3.0	0.7	100 4	114.3	90	8	19	3.0	3.4	8.0	23.0	4.0	5.9	
125	139.8	80	3.4	1.1	125	139.8	95	8	23	3.4	5.1	8.0	25.0	5.0	9.4	
5	141.3	80	3.4	1.1	5	141.3	95	8	23	3.4	5.1	8.0	25.0	5.0	9.4	
150	165.2	90	3.4	1.4	150	165.2	100	8	23	3.4	7.0	12.0	25.0	5.0	12.1	
6	168.3	90	3.4	1.4	6	168.3	100	8	23	3.4	7.0	12.0	25.0	5.0	12.1	
200	216.3	101.6	4.0	2.8	200	216.3	115	12	23	4.0	9.4	12.0	25.0	6.5	16.5	
8	219.1	101.6	4.0	2.8	8	219.1	115	12	23	4.0	9.4	12.0	25.0	6.5	16.5	
250	267.4	127	4.0	4.0	250	267.4	120	12	25	4.0	13.0	12.0	27.0	6.5	27.0	
10	273.0	127	4.0	4.0	10	273.0	120	12	25	4.0	13.0	12.0	27.0	6.5	27.0	
300	318.5	152.4	4.5	6.4	300	318.5	120	16	25	4.5	14.3	16.0	27.0	6.5	31.9	
12	323.9	152.4	4.5	6.4	12	323.9	120	16	25	4.5	14.3	16.0	27.0	6.5	31.9	
350 14	355.6	165.1	4.8	8.0	350 14	355.6	190	16	25	4.8	24.1	16.0	33.0	8.0	49.2	
400 16	406.4	177.8	4.8	10.1	400 16	406.4	220	16	27	4.8	37.9	16.0	33.0	8.0	69.0	
450 18	457.2	203.2	4.8	12.9	450 18	457.2	225	20	27	4.8	47.4	20.0	33.0	8.0	86.0	
500 20	508.0	228.6	5.5	18.5	500 20	508.0	260	20	27	5.5	55.7	20.0	33.0	9.5	103.0	

Fire Standing Piping System

Long Elbow



- Mat'l : Carbon pipe (SPPS250)
- Paint : Epoxy coat
- Based on Vertical length 1.4M to Alarm valve
- Adjustable L1,L2 length is according to customer request

Nominal Size DN Inch	Standard length		Pipe O.D. (mm/inch)	R (mm)	T (mm)	Weight (kg)
	L1+L3	L2+L3				
65 2.1/2	390	810	76.3 73.0	150	4.2	9.0
	340	340	76.3 73.0	150	4.2	5.0
	300	450	76.3 73.0	150	4.2	5.6
80 3	350	800	89.1	180	4.2	9.7
	350	560	89.1	180	4.2	8.4
	500	800	89.1	180	4.2	11.9
100 4	380	770	114.3	225	4.5	14.6
	410	650	114.3	225	4.5	14.0
	550	780	114.3	225	4.5	16.4

Grooved Cut Pipe



- Mat'l : Carbon pipe (SPPS250)
- Paint : Epoxy coat or gal'v
- Based on Vertical length 3M.
- Adjustable length is according to customer request

Size	O.D	thickness (T)	size (MM)	
			A	B
50A	60.5	3.8	1650	1000
65A	76.3	4.2	1650	1000
80A	89.1	4.2	1650	1000
100A	114.3	4.5	1650	1000
125A	139.8	4.5	1650	1000
150A	165.2	5	1650	1000
200A	216.3	5.8	1650	1000

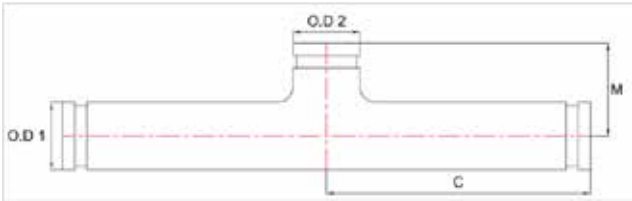
New method
for grooved joint system

Non-welded Spring Cooler Piping System

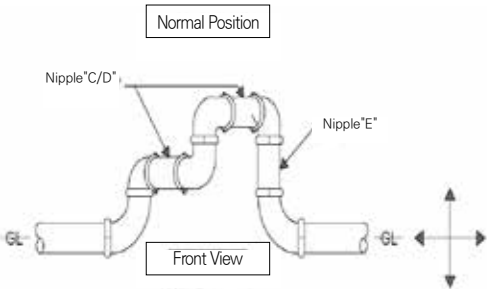
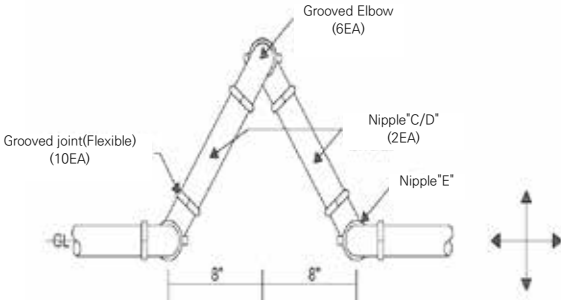
Seismic Separation Assembly

Long Tee

- Mat'l : Carbon pipe (SPP, SPSS250)
- Paint : Epoxy coat

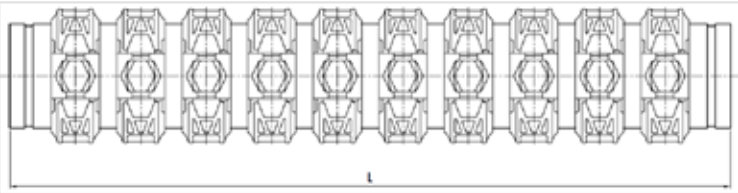


Nominal Size DN Inch	Pipe O,D1. (mm/inch)	T1	Pipe O,D2. (mm/inch)	T2	C	M	KG
50x50 2x2	60.5	3.8	60.5	3.8	270	111	3.4
65x65	76.3	4.2	76.3	4.2	270	132	4.8
2.1/2x2.1/2	73.0	4.2	73.0	4.2	270	132	4.8



ASIA Thermal Expansion Joint

E10



- Mat'l : Ductile iron (GCD450)
- Gasket mat'l : EPDM, etc..
- Bolt/Nut mat'l : CS for machine structural use
- Paint : Epoxy coat
- Can be used as an expansion joint function by connecting groove joints and short pipes

size (A)	O,D (mm)	Joint Q'ty	L (mm)		full expansion (mm)	Weight(kg)
			Contraction(min.)	expansion(max.)		
32A	42.7	10	660	692	32	8.9
40A	48.6	10	660	692	32	9.7
50A	60.5	10	715	751	36	11.9
65A	76.3	10	715	751	36	15.5
80A	89.1	10	715	751	36	21.9
100A	114.3	10	770	828	58	32.5
125A	139.8	10	770	828	58	45.9
150A	165.2	10	770	828	58	51.5
200A	216.3	10	880	940	60	96
250A	267.4	10	880	940	60	170
300A	318.5	10	880	940	60	214

size	O,D (mm)	Total Height	Length "E"	minimal length "C" , "D"					
				1Inch/ 25 mm anti seismic move	2Inch/ 51 mm anti seismic move	3Inch/ 76 mm anti seismic move	4Inch/ 102 mm anti seismic move	5Inch/ 127 mm anti seismic move	6Inch/ 152mm anti seismic move
50A	60.5	94	188	102	356	635	915	1194	1448
65A	76.3	110	220	102	458	788	1143	1474	1804
80A	89.1	129	258	102	559	940	1347	1753	2134
100A	114.3	160	320	102	178	280	407	585	762
125A	139.8	191	382	153	178	356	559	788	991
150A	165.2	229	458	153	178	407	661	915	1169
200A	216.3	305	610	153	229	559	889	1245	1575

※ The above data may be changed to improve the performance of the manufacturer.