

BAOLAI STEEL



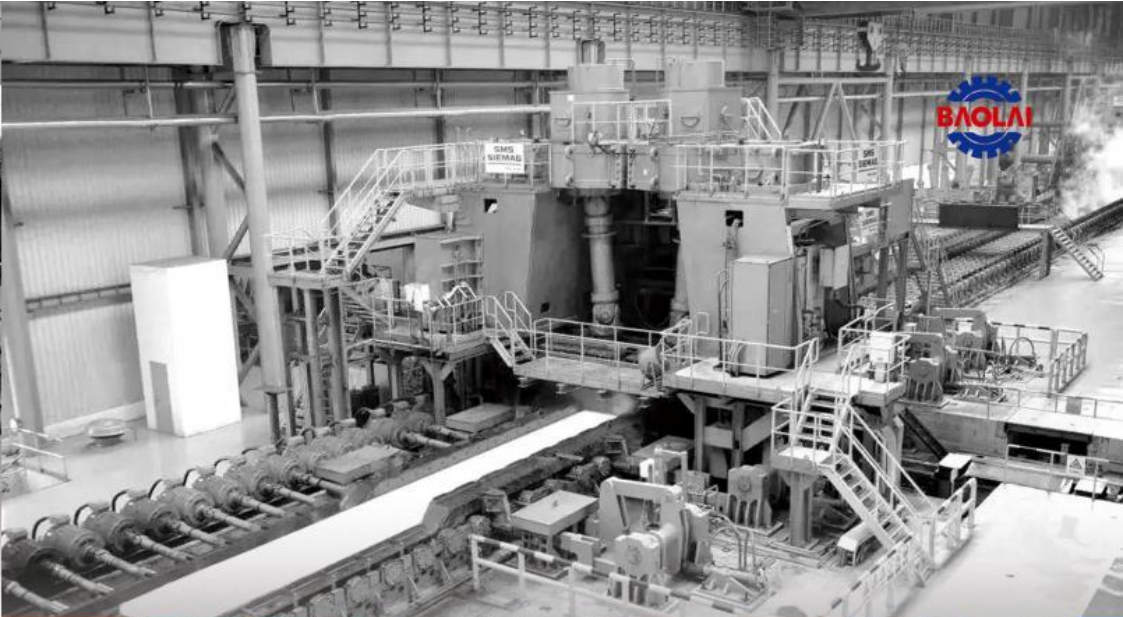
COMPANY PROFILE

Tianjin Baolai Steel Group Co., Ltd is a comprehensive company, which focus on steel pipes and other steel products. Established in 1991, Baolai is among the first few specialized companies that develop and manufacture ordinary and special diameter steel pipes. We manufacture API, ASTM, BS, DIN and JIS standards pipes with galvanizing facility. Our annual capacity is approximately 2,300,000MT in various specifications and export 150,000MT to all over the world.

We have been awarded "Top Ten Collective and Private Exporters of Tianjin" by Tianjin Commerce Department, "Top Ten Exporters of Hexi District" by Tianjin Hexi Commerce Department, "Top 100 Enterprises of Tianjin" and "Top 300 International Trade companies of Tianjin" by Tianjin government, and a credit rating "AAA" by banks.

Apart from being the supplier of a comprehensive range of our products, Baolai aims to extend its commitment to customers by enhancing its services and adding new facilities. A dedicated team is tasked to provide technical support so as to advise the proper usage of steel and assist customers in using the products to its best advantage.



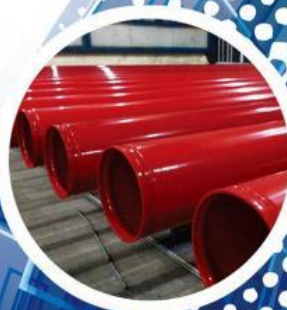




BAOLAI STEEL



Galvanizing
Fabrication



Painted Pipe Workshop



Threaded Galvanized Pipe



Grooved Pipe

■ CERTIFICATES ■

■ CERTIFICATES ■



DUCTILE IRON GROOVED FITTINGS AND COUPLINGS



Rigid coupling

Flexible coupling

Angle pad coupling

Equal Tee



Equal Cross

90° Elbow

45° Elbow

22.5° Elbow



11.25° Elbow

Reducing Tee(Grooved)

Reducing Tee(Threaded)

Reducing Cross(Grooved)



Reducing Cross(Threaded)

Mechanical Tee (Grooved)

Mechanical Tee (Threaded)

Flange Adaptor



Grooved Flange

Concentric Reducer (Grooved)

Concentric Reducer (Threaded)

Eccentric Reducer (Grooved)



U-Bolted Mechanical Tee (Threaded)

Cap

Gasket Ring

Bolts And Nuts

Surface treatment:

P: Painting

E: Electroplate

B: Black

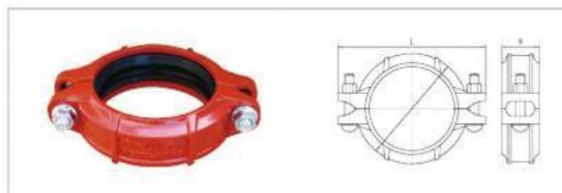
S: Epoxy

G: Galvanization

J: Galvanization+Epoxy

D: Dacroment

Rigid coupling



According to different situations, the appearance can be dealt with epoxy powder, galvanized, paint, dacromet or your requirements.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Bolt Size	Dimensions mm/in		
			No.-Size mm	Φ	L	H
25 1	33.7 1.327	300 2.07	2-M10*45	55.6 2.188	98 3.858	44 1.732
32	42.4	300	2-M10*45	66	107	44
1 1/4	1.669	2.07		2.598	4.213	1.732
40	48.3	300	2-M10*45	74	115	44
1 1/2	1.9	2.07		2.913	4.527	1.732
50	60.3	300	2-M10*55	88.4	125	46
2	2.374	2.07		3.480	4.921	1.732
65	73.0	300	2-M10*55	102.2	140	46
2 1/2	2.875	2.07		4.024	5.512	1.772
65	76.1	300	2-M10*55	102.2	140	46
2 1/2	3	2.07		4.024	5.512	1.772
80	88.9	300	2-M10*60	117.4	154	46
3	3.5	2.07		4.622	6.063	1.772
100	108	300	2-M12*65	138.8	184	48
4	4.25	2.07		5.466	7.244	1.889
100	114.3	300	2-M12*65	146.6	190	48
4	4.5	2.07		5.772	7.480	1.889
125	133	300	2-M12*75	158	212	48
5	5.25	2.07		6.220	8.346	1.889
125	139.7	300	2-M12*75	171.2	220	48
5	5.5	2.07		6.740	8.661	1.889
125	141.3	300	2-M12*75	171.2	220	48
5	5.56	2.07		6.740	8.661	1.889
150	159	300	2-M12*75	192	240	48
6	6.25	2.07		7.559	9.448	2.008
150	165.1	300	2-M12*75	196.2	244	48
6	6.5	2.07		7.724	9.606	2.008
150	168.3	300	2-M12*75	199.4	246	48
6	6.625	2.07		7.850	9.685	2.008
200	219.1	300	2-M16*85	256.4	326	58
8	8.625	2.07		10.024	12.835	2.283
250	273	300	2-M20*100	316	426	64
10	10.748	2.07		12.441	16.771	2.520
300	323.9	300	2-M22*130	380	470	65
12	12.75	2.07		14.961	18.504	2.559

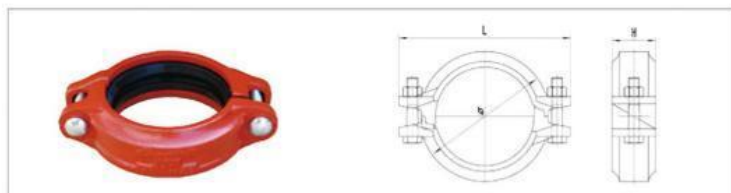
Flexible coupling



According to different situations, the appearance can be dealt with epoxy powder, galvanized, paint, dacromet or your requirements.

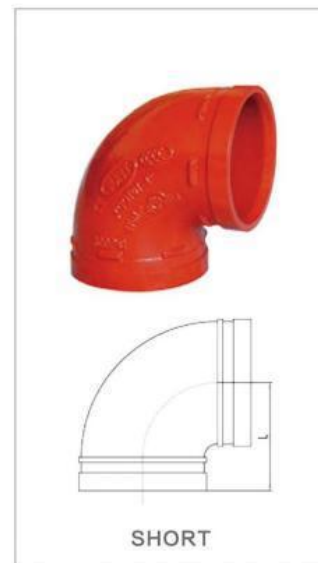
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Bolt Size	Dimensions mm/in		
			No.-Size mm	Φ	L	H
25 1	33.7 1.327	300 2.07	2-M10*45	55.6 2.188	98 3.858	44 1.732
32	42.4	300	2-M10*45	66	107	44
1 1/4	1.669	2.07		2.598	4.213	1.732
40	48.3	300	2-M10*45	74	115	44
1 1/2	1.9	2.07		2.913	4.527	1.732
50	60.3	300	2-M10*55	88.4	125	46
2	2.374	2.07		3.480	4.921	1.732
65	73.0	300	2-M10*55	102.2	140	46
2 1/2	2.875	2.07		4.024	5.512	1.772
65	76.1	300	2-M10*55	102.2	140	46
2 1/2	3	2.07		4.024	5.512	1.772
80	88.9	300	2-M10*60	117.4	154	46
3	3.5	2.07		4.622	6.063	1.772
100	108	300	2-M12*65	138.8	184	48
4	4.25	2.07		5.466	7.244	1.889
100	114.3	300	2-M12*65	146.6	190	48
4	4.5	2.07		5.772	7.480	1.889
125	133	300	2-M12*75	158	212	48
5	5.25	2.07		6.220	8.346	1.889
125	139.7	300	2-M12*75	171.2	220	48
5	5.5	2.07		6.740	8.661	1.889
125	141.3	300	2-M12*75	171.2	220	48
5	5.56	2.07		6.740	8.661	1.889
150	159	300	2-M12*75	192	240	48
6	6.25	2.07		7.559	9.448	2.008
150	165.1	300	2-M12*75	196.2	244	48
6	6.5	2.07		7.724	9.606	2.008
150	168.3	300	2-M12*75	199.4	246	48
6	6.625	2.07		7.850	9.685	2.008
200	219.1	300	2-M16*85	256.4	326	58
8	8.625	2.07		10.024	12.835	2.283
250	273	300	2-M20*100	316	426	64
10	10.748	2.07		12.441	16.771	2.520
300	323.9	300	2-M22*130	380	470	65
12	12.75	2.07		14.961	18.504	2.559

Angle coupling



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Bolt Size No.-Size mm	Dimensions mm/in		
				Φ	L	H
25	33.7	300	2-M10*45	55.6	98	44
1	1.327	2.07		2.188	3.858	1.732
32	42.4	300	2-M10*45	66	107	44
1 1/4	1.669	2.07		2.598	4.213	1.732
40	48.3	300	2-M10*45	74	115	44
1 1/2	1.9	2.07		2.913	4.527	1.732
50	60.3	300	2-M10*55	88.4	125	46
2	2.374	2.07		3.480	4.921	1.732
65	73.0	300	2-M10*55	102.2	140	46
2 1/2	2.875	2.07		4.024	5.512	1.772
65	76.1	300	2-M10*55	102.2	140	46
2 1/2	3	2.07		4.024	5.512	1.772
80	88.9	300	2-M10*60	117.4	154	46
3	3.5	2.07		4.622	6.063	1.772
100	108	300	2-M12*65	138.8	184	48
4	4.25	2.07		5.466	7.244	1.889
100	114.3	300	2-M12*65	146.6	190	48
4	4.5	2.07		5.772	7.480	1.889
125	133	300	2-M12*75	158	212	48
5	5.25	2.07		6.220	8.346	1.889
125	139.7	300	2-M12*75	171.2	220	48
5	5.5	2.07		6.740	8.661	1.889
125	141.3	300	2-M12*75	171.2	220	48
5	5.56	2.07		6.740	8.661	1.889
150	159	300	2-M12*75	192	240	48
6	6.25	2.07		7.559	9.448	2.008
150	165.1	300	2-M12*75	196.2	244	48
6	6.5	2.07		7.724	9.606	2.008
150	168.3	300	2-M12*75	199.4	246	48
6	6.625	2.07		7.850	9.685	2.008
200	219.1	300	2-M16*85	256.4	326	58
8	8.625	2.07		10.024	12.835	2.283
250	273	300	2-M20*100	316	426	64
10	10.748	2.07		12.441	16.771	2.520
300	323.9	300	2-M22*130	380	470	65
12	12.75	2.07		14.961	18.504	2.559

90° Elbow



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in	
			Short	Standard
25	33.7	300	57	57
1	1.327	2.07	2.244	2.24
32	42.4	300	60	70
1 1/4	1.669	2.07	2.362	2.75
40	48.3	300	60	70
1 1/2	1.900	2.07	2.362	2.75
50	60.3	300	70	83
2	2.375	2.07	2.756	3.27
65	73.0	300	76	95
2 1/2	2.875	2.07	2.992	3.74
65	76.1	300	76	95
2 1/2	3	2.07	2.992	3.74
80	88.9	300	90	108
3	3.5	2.07	3.543	4.25
100	108	300	102	127
4	4.252	2.07	4.016	5.00
100	114.3	300	102	127
4	4.5	2.07	4.016	5.00
125	133	300	122	122
5	5.25	2.07	4.803	4.80
125	139.7	300	122	140
5	5.5	2.07	4.803	5.50
125	141.3	300	122	140
5	5.56	2.07	4.803	5.50
150	159	300	140	165
6	6.25	2.07	5.512	6.50
150	165.1	300	140	165
6	6.5	2.07	5.512	6.50
150	168.3	300	140	165
6	6.625	2.07	5.512	6.50
200	219.1	300	175	197
8	8.625	2.07	6.890	7.75
250	273	300	215	229
10	10.75	2.07	8.465	9.00
300	323.9	300	230	254
12	12.75	2.07	9.055	10.00

45° Elbow



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
25	33.7	300	38
1	1.327	2.07	1.496
32	42.4	300	44
1 1/4	1.669	2.07	1.732
40	48.3	300	44
1 1/2	1.900	2.07	1.732
50	60.3	300	51
2	2.375	2.07	2.008
65	73.0	300	57
2 1/2	2.875	2.07	2.244
65	76.1	300	57
2 1/2	3	2.07	2.244
80	88.9	300	64
3	3.5	2.07	2.52
100	108	300	76
4	4.252	2.07	2.992
100	114.3	300	76
4	4.5	2.07	2.992
125	133	300	83
5	5.25	2.07	3.27
125	139.7	300	83
5	5.5	2.07	3.27
125	141.3	300	83
5	5.56	2.07	3.27
150	159	300	89
6	6.25	2.07	3.504
150	165.1	300	89
6	6.5	2.07	3.504
150	168.3	300	89
6	6.625	2.07	3.504
200	219.1	300	108
8	8.625	2.07	4.252
250	273	300	121
10	10.75	2.07	4.764
300	323.9	300	133
12	12.75	2.07	5.236

22.5° Elbow



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
50	60.3	300	51
2	2.375	2.07	2.007
65	73	300	51
2 1/2	2.875	2.07	2.007
65	76.1	300	51
2 1/2	3	2.07	2.007
80	88.9	300	57
3	3.5	2.07	2.244
100	108	300	73
4	4.252	2.07	2.874
100	114.3	300	73
4	4.5	2.07	2.874
125	133	300	73
5	5.25	2.07	2.874
125	139.7	300	73
5	5.5	2.07	2.874
125	141.3	300	73
5	5.56	2.07	2.874
150	159	300	79
6	6.25	2.07	3.110
150	165.1	300	79
6	6.5	2.07	3.110
150	168.3	300	79
6	6.625	2.07	3.110
200	219.1	300	98
8	8.625	2.07	3.858

11.25° Elbow



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
50	60.3	300	35
2	2.375	2.07	1.378
65	73	300	38
2 1/2	2.875	2.07	1.496
65	76.1	300	38
2 1/2	3	2.07	1.496
80	88.9	300	38
3	3.5	2.07	1.496
100	108	300	44
4	4.252	2.07	1.732
100	114.3	300	48
4	4.5	2.07	1.890
125	133	300	51
5	5.25	2.07	2.008
125	139.7	300	51
5	5.5	2.07	2.008
125	141.3	300	51
5	5.56	2.07	2.008
150	159	300	51
6	6.25	2.07	2.008
150	165.1	300	51
6	6.5	2.07	2.008
150	168.3	300	51
6	6.625	2.07	2.008
200	219.1	300	51
8	8.625	2.07	2.008

Equal Tee



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in	
			Short	Standard
25	33.7	300	57	57
1	1.327	2.07	2.244	2.24
32	42.4	300	60	70
1 1/4	1.669	2.07	2.362	2.75
40	48.3	300	60	70
1 1/2	1.90	2.07	2.362	2.75
50	60.3	300	70	83
2	2.375	2.07	2.756	3.27
65	73	300	76	95
2 1/2	2.875	2.07	2.992	3.74
65	76.1	300	76	95
2 1/2	3	2.07	2.992	3.74
80	88.9	300	86	108
3	3.5	2.07	3.386	4.25
100	108	300	102	127
4	4.252	2.07	4.016	5.00
100	114.3	300	102	127
4	4.5	2.07	4.016	5.00
125	133	300	122	122
5	5.25	2.07	4.803	4.80
125	139.7	300	122	140
5	5.5	2.07	4.803	5.50
125	141.3	300	122	140
5	5.56	2.07	4.803	5.50
150	159	300	140	165
6	6.25	2.07	5.512	6.50
150	165.1	300	140	165
6	6.5	2.07	5.512	6.50
150	168.3	300	140	165
6	6.625	2.07	5.512	6.50
200	219.1	300	175	197
8	8.625	2.07	6.890	7.75
250	273	300	215	229
10	10.75	2.07	8.466	9.00
300	323.9	300	230	254
12	12.75	2.07	9.055	10.00

Equal Cross



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
25	33.7	300	57
1	1.327	2.07	2.244
32	42.4	300	60
1 1/4	1.669	2.07	2.362
40	48.3	300	60
1 1/2	1.900	2.07	2.362
50	60.3	300	70
2	2.375	2.07	2.756
65	73	300	76
2 1/2	2.875	2.07	2.992
65	76.1	300	76
2 1/2	3	2.07	2.992
80	88.9	300	86
3	3.5	2.07	3.386
100	108	300	102
4	4.252	2.07	4.016
100	114.3	300	102
4	4.5	2.07	4.016
125	133	300	122
5	5.25	2.07	4.803
125	139.7	300	122
5	5.5	2.07	4.803
125	141.3	300	122
5	5.56	2.07	4.803
150	159	300	140
6	6.25	2.07	5.512
150	165.1	300	140
6	6.5	2.07	5.512
150	168.3	300	140
6	6.625	2.07	5.512
200	219.1	300	175
8	8.625	2.07	6.890
250	273	300	215
10	10.75	2.07	8.466
300	323.9	300	230
12	12.75	2.07	9.055

Reducing Tee (Grooved)



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
50x25 2x1	60.3x33.7 2.375x1.327	300 2.07	70 2.756
50x32 2x1 1/4	60.3x42.4 2.375x1.669	300 2.07	70 2.756
50x40 2x1 1/2	60.3x48.3 2.375x1.902	300 2.07	70 2.756
65x25 2 1/2x1	73.0x33.7 2.875x1.327	300 2.07	76 2.992
65x32 2 1/2x1 1/4	73.0x42.4 2.875x1.669	300 2.07	76 2.992
65x40 2 1/2x1 1/2	73.0x48.3 2.875x1.902	300 2.07	76 2.992
65x50 2 1/2x2	73.0x60.3 2.875x2.375	300 2.07	76 2.992
65x25 2 1/2x1	76.1x33.7 2.996x1.327	300 2.07	76 2.992
65x32 2 1/2x1 1/4	76.1x42.4 2.996x1.669	300 2.07	76 2.992
65x40 2 1/2x1 1/2	76.1x48.3 2.996x1.902	300 2.07	76 2.992
65x50 2 1/2x2	76.1x60.3 2.996x2.375	300 2.07	76 2.992
80x25 3x1	88.9x33.7 3.5x1.327	300 2.07	86 3.386
80x32 3x1 1/4	88.9x42.4 3.5x1.669	300 2.07	86 3.386
80x40 3x1 1/2	88.9x48.3 3.5x1.902	300 2.07	86 3.386
80x50 3x2	88.9x60.3 3.5x2.375	300 2.07	86 3.386
80x65 3x2 1/2	88.9x76.1 3.5x2.996	300 2.07	86 3.386
100x25 4x1	108x33.7 4.3x1.327	300 2.07	102 4.016
100x32 4x1 1/4	108x42.4 4.3x1.669	300 2.07	102 4.016
100x40 4x1 1/2	108x48.3 4.3x1.902	300 2.07	102 4.016
100x50 4x2	108x60.3 4.3x2.375	300 2.07	102 4.016
100x65 4x2 1/2	108x76.1 4.3x2.996	300 2.07	102 4.016
100x80 4x3	108x88.9 4.3x3.5	300 2.07	102 4.016
100x25 4x1	114.3x33.7 4.5x1.327	300 2.07	102 4.016
100x32 4x1 1/4	114.3x42.4 4.5x1.669	300 2.07	102 4.016

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
100x40 4x1 1/2	114.3x48.3 4.5x1.902	300 2.073	102 4.016
100x50 4x2	114.3x60.3 4.5x2.375	300 2.073	102 4.016
100x65 4x2 1/2	114.3x76.1 4.5x2.996	300 2.073	102 4.016
100x80 4x3	114.3x88.9 4.5x3.5	300 2.073	102 4.016
125x25 5x1	139.7x33.7 5.5x1.327	300 2.073	122 4.803
125x32 5x1 1/4	139.7x42.4 5.5x1.669	300 2.073	122 4.803
125x40 5x1 1/2	139.7x48.3 5.5x1.902	300 2.073	122 4.803
125x50 5x2	139.7x60.3 5.5x2.375	300 2.07	122 4.803
125x65 5x2 1/2	139.7x76.1 5.5x2.996	300 2.07	122 4.803
125x80 5x3	139.7x88.9 5.5x3.5	300 2.07	122 4.803
125x100 5x4	139.7x114.3 5.5x4.5	300 2.07	122 4.803
125x25 5x1	141.3x33.7 5.56x1.327	300 2.073	122 4.803
125x32 5x1 1/4	141.3x42.4 5.56x1.669	300 2.073	122 4.803
125x40 5x1 1/2	141.3x48.3 5.56x1.902	300 2.073	122 4.803
125x50 5x2	141.3x60.3 5.56x2.375	300 2.07	122 4.803
125x65 5x2 1/2	141.3x76.1 5.56x2.996	300 2.07	122 4.803
125x80 5x3	141.3x88.9 5.56x3.5	300 2.07	122 4.803
125x100 5x4	141.3x114.3 5.56x4.5	300 2.07	122 4.803
150x25 6x1	159x33.7 6.26x1.327	300 2.07	140 5.512
150x32 6x1 1/4	159x42.4 6.26x1.669	300 2.07	140 5.512
150x40 6x1 1/2	159x48.3 6.26x1.902	300 2.07	140 5.512
150x50 6x2	159x60.3 6.26x2.375	300 2.07	140 5.512
150x65 6x2 1/2	159x76.1 6.26x2.996	300 2.07	140 5.512
150x80 6x3	159x88.9 6.26x3.5	300 2.07	140 5.512

Reducing Tee (Grooved)



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
150x100 6x4	159x108 6.26x4.25	300 2.07	140 5.512
150x100 6x4	159x114.3 6.26x4.5	300 2.07	140 5.512
150x25 6x1	165.1x33.7 6.5x1.327	300 2.07	140 5.512
150x32 6x1 1/4	165.1x42.4 6.5x1.669	300 2.07	140 5.512
150x40 6x1 1/2	165.1x48.3 6.5x1.902	300 2.07	140 5.512
150x50 6x2	165.1x60.3 6.5x2.375	300 2.07	140 5.512
150x65 6x2 1/2	165.1x76.1 6.5x2.996	300 2.07	140 5.512
150x80 6x3	165.1x88.9 6.5x3.5	300 2.07	140 5.512
150x100 6x4	165.1x108 6.5x4.25	300 2.07	140 5.512
150x100 6x4	165.1x114.3 6.5x4.5	300 2.07	140 5.512
150x125 6x5	165.1x139.7 6.5x5.5	300 2.07	140 5.512
150x25 6x1	168.3x33.7 6.626x1.327	300 2.07	140 5.512
150x32 6x1 1/4	168.3x42.4 6.626x1.669	300 2.07	140 5.512
150x40 6x1 1/2	168.3x48.3 6.626x1.902	300 2.07	140 5.512
125x50 6x2	168.3x60.3 6.626x2.375	300 2.07	140 5.512
150x65 6x2 1/2	168.3x76.1 6.626x2.996	300 2.07	140 5.512
150x80 6x3	168.3x88.9 6.626x3.5	300 2.07	140 5.512
150x100 6x4	168.3x114.3 6.626x4.5	300 2.07	140 5.512
150x125 6x5	168.3x139.7 6.626x5.5	300 2.07	140 5.512
200x50 8x2	219.1x60.3 8.622x2.375	300 2.07	175 6.89

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
200x65 8x2 1/2	219.1x76.1 8.622x2.996	300 2.07	175 6.89
200x80 8x3	219.1x88.9 8.622x3.5	300 2.07	175 6.89
200x80 8x4	219.1x108 8.622x4.252	300 2.07	175 6.89
200x100 8x4	219.1x114.3 8.622x4.5	300 2.07	175 6.89
200x125 8x6	219.1x133 8.622x5.236	300 2.07	175 6.89
200x125 8x6	219.1x139.7 8.622x5.5	300 2.07	175 6.89
200x150 8x6	219.1x159 8.622x6.26	300 2.07	175 6.89
200x150 8x6	219.1x165.1 8.622x6.626	300 2.07	175 6.89
200x125 8x6	219.1x168.3 8.622x6.5	300 2.07	176 6.89
250x80 10x3	273x88.9 10.748x3.5	300 2.07	215 6.465
250x100 10x4	273x114.3 10.748x4.5	300 2.07	215 6.465
250x125 10x6	273x133 10.748x5.236	300 2.07	215 6.465
250x125 10x6	273x139.7 10.748x5.5	300 2.07	215 6.465
250x150 10x6	273x159 10.748x6.26	300 2.07	215 6.465
250x150 10x6	273x165.1 10.748x6.5	300 2.07	215 6.465
250x150 10x6	273x168.3 10.748x6.626	300 2.07	215 6.465
250x200 12x8	323.9x219.1 12.75x8.626	300 2.07	230 9.055
300x100 12x4	323.9x114.3 12.75x4.5	300 2.07	230 9.055
300x125 12x6	323.9x139.7 12.75x5.5	300 2.07	230 9.055
300x125 12x6	323.9x141.3 12.75x5.56	300 2.07	230 9.055

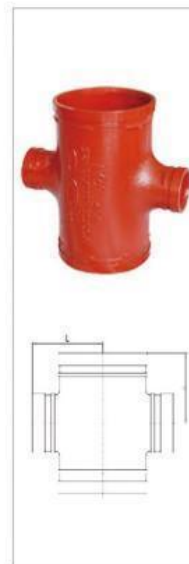
Reducing Tee (Threaded)



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
50x25	60.3x33.7	300	70
2x1	2.375x1.327	2.07	2.756
50x32	60.3x42.4	300	70
2x1 1/4	2.375x1.669	2.07	2.756
50x40	60.3x48.3	300	70
2x1 1/2	2.375x1.902	2.07	2.756
65x25	73.0x33.7	300	76
2 1/2x1	2.875x1.327	2.07	2.992
65x32	73.0x42.4	300	76
2 1/2x1 1/4	2.875x1.669	2.07	2.992
65x40	73.0x48.3	300	76
2 1/2x1 1/2	2.875x1.902	2.07	2.992
65x50	73.0x60.3	300	76
2 1/2x2	2.875x2.374	2.07	2.992
65x25	76.1x33.7	300	76
2 1/2x1	2.996x1.327	2.07	2.992
65x32	76.1x42.4	300	76
2 1/2x1 1/4	2.996x1.669	2.07	2.992
65x40	76.1x48.3	300	76
2 1/2x1 1/2	2.996x1.902	2.07	2.992
65x50	76.1x60.3	300	76
2 1/2x2	2.996x2.374	2.07	2.992
80x50	88.9x33.7	300	86
3x1	3.5x1.327	2.07	3.386
80x32	88.9x42.4	300	86
3x1 1/4	3.5x1.669	2.07	3.386
80x40	88.9x48.3	300	86
3x1 1/2	3.5x1.902	2.07	3.386
80x50	88.9x60.3	300	86
3x2	3.5x2.374	2.07	3.386
100x25	114.3x33.7	300	102
4x1	4.5x1.327	2.07	4.016
100x32	114.3x42.4	300	102
4x1 1/4	4.5x1.669	2.07	4.016

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
100x40	114.3x48.3	300	102
4x1 1/2	4.5x1.902	2.07	4.016
100x50	114.3x60.3	300	102
4x2	4.5x2.374	2.07	4.016
100x65	114.3x76.1	300	102
4x2 1/2	4.5x2.669	2.07	4.016
100x80	114.3x88.9	300	102
4x3	4.5x3.5	2.07	4.016
150x25	165.1x33.7	300	140
6x1	6.5x1.327	2.07	5.512
150x32	165.1x42.4	300	140
6x1 1/4	6.5x1.669	2.07	5.512
150x40	165.1x48.3	300	140
6x1 1/2	6.5x1.902	2.07	5.512
150x50	165.1x60.3	300	140
6x2	6.5x2.375	2.07	5.512
150x65	165.1x76.1	300	140
6x2 1/2	6.5x2.996	2.07	5.512
150x80	168.3x88.9	300	140
6x2 1/2	6.626x2.996	2.07	5.512
150x100	168.3x114.3	300	140
6x4	6.626x4.5	2.07	5.512
200x50	219.1x60.3	300	175
8x2	8.622x2.375	2.07	6.89
200x65	219.1x76.1	300	175
8x2 1/2	8.622x2.996	2.07	6.89
200x80	219.1x88.9	300	175
8x3	8.622x3.5	2.07	6.89
200x100	219.1x114.3	300	175
8x4	8.622x4.5	2.07	6.89
200x125	219.1x168.3	300	176
8x6	8.622x6.5	2.07	6.89

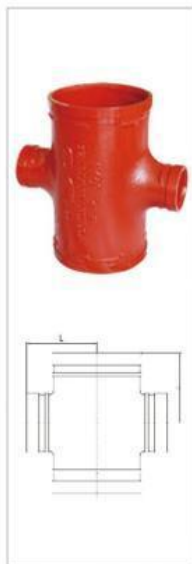
Reducing Cross (Grooved)



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
50x40	60.3x48.3	300	70
2x1 1/2	2.375x1.902	2.07	2.756
65x25	76.1x33.7	300	70
2 1/2x1	2.996x1.327	2.07	2.756
65x32	76.1x42.4	300	70
2 1/2x1 1/4	2.996x1.669	2.07	2.756
65x40	76.1x48.3	300	70
2 1/2x1 1/2	2.996x1.902	2.07	2.756
65x50	76.1x60.3	300	70
2 1/2x2	2.996x2.375	2.07	2.756
80x25	88.9x33.7	300	86
3x1	3.5x1.327	2.07	3.386
80x32	88.9x42.4	300	86
3x1 1/4	3.5x1.669	2.07	3.386
80x40	88.9x48.3	300	86
3x1 1/2	3.5x1.902	2.07	3.386
80x50	88.9x60.3	300	86
3x2	3.5x2.375	2.07	3.386
80x65	88.9x76.1	300	86
3x2 1/2	3.5x2.996	2.07	3.386
100x25	108x33.7	300	102
4x1	4.3x1.327	2.07	4.016
100x32	108x42.4	300	102
4x1 1/4	4.3x1.669	2.07	4.016
100x40	108x48.3	300	102
4x1 1/2	4.3x1.902	2.07	4.016
100x50	108x60.3	300	102
4x2	4.3x2.375	2.07	4.016
100x65	108x76.1	300	102
4x2 1/2	4.3x2.996	2.07	4.016
100x80	108x88.9	300	102
4x3	4.3x3.5	2.07	4.016
100x25	114.3x33.7	300	102
4x1	4.5x1.327	2.07	4.016
100x32	114.3x42.4	300	102
4x1 1/4	4.5x1.669	2.07	4.016

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
100x40	114.3x48.3	300	102
4x1 1/2	4.5x1.902	2.07	4.016
100x50	114.3x60.3	300	102
4x2	4.5x2.375	2.07	4.016
100x65	114.3x76.1	300	102
4x2 1/2	4.5x2.996	2.07	4.016
100x80	114.3x88.9	300	102
4x3	4.5x3.5	2.07	4.016
125x25	139.7x33.7	300	122
5x1	5.5x1.327	2.07	4.803
125x32	139.7x42.4	300	122
5x1 1/4	5.5x1.669	2.07	4.803
125x40	139.7x48.3	300	122
5x1 1/2	5.5x1.902	2.07	4.803
125x50	139.7x60.3	300	122
5x2	5.5x2.375	2.07	4.803
125x65	139.7x76.1	300	122
5x2 1/2	5.5x2.996	2.07	4.803
125x80	139.7x88.9	300	122
5x3	5.5x3.5	2.07	4.803
125x100	139.7x114.3	300	122
5x4	5.5x4.5	2.07	4.803
150x25	159x33.7	300	140
6x1	6.26x1.327	2.07	5.512
150x32	159x42.4	300	140
6x1 1/4	6.26x1.669	2.07	5.512
150x40	159x48.3	300	140
6x1 1/2	6.26x1.902	2.07	5.512
150x50	159x60.3	300	140
6x2	6.26x2.375	2.07	5.512
150x65	159x76.1	300	140
6x2 1/2	6.26x2.996	2.07	5.512
150x80	159x88.9	300	140
6x3	6.26x3.5	2.07	5.512
150x100	159x108	300	140
6x4	6.26x4.25	2.07	5.512

Reducing Cross (Grooved)



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in	Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
150x100	159x114.3	300	140	200x50	219x60.3	300	175
6x4	6.26x4.5	2.07	5.512	8x2	8.622x2.375	2.07	6.89
150x25	165.1x33.7	300	140	200x65	219x76.1	300	175
6x1	6.5x1.327	2.07	5.512	8x2 1/2	8.622x2.996	2.07	6.89
150x32	165.1x42.4	300	140	200x80	219x88.9	300	175
6x1 1/4	6.5x1.669	2.07	5.512	8x3	8.622x3.5	2.07	6.89
150x40	165.1x48.3	300	140	200x100	219x108	300	175
6x1 1/2	6.5x1.902	2.07	5.512	8x4	8.622x4.252	2.07	6.89
150x50	165.1x60.3	300	140	200x100	219x114.3	300	175
6x2	6.5x2.375	2.07	5.512	8x4	8.622x4.5	2.07	6.89
150x65	165.1x76.1	300	140	200x125	219x133	300	175
6x2 1/2	6.5x2.996	2.07	5.512	8x5	8.622x5.236	2.07	6.89
150x80	165.1x88.9	300	140	200x125	219x139.7	300	175
6x3	6.5x3.5	2.07	5.512	8x5	8.622x5.5	2.07	6.89
150x100	165.1x108	300	140	200x150	219x159	300	175
6x4	6.5x4.25	2.07	5.512	8x6	8.622x6.26	2.07	6.89
150x100	165.1x114.3	300	140	200x150	219x168.3	300	175
6x4	6.5x4.5	2.07	5.512	8x6	8.622x6.626	2.07	6.89
150x125	165.1x139.7	300	140	200x150	219x165.1	300	176
6x5	6.5	2.07	5.512	8x6	8.622x6.5	2.07	6.89
150x25	168.3x33.7	300	140	250x80	273x88.9	300	215
6x1	6.626x1.327	2.07	5.512	10x3	10.748x3.5	2.07	8.465
150x32	168.3x42.4	300	140	250x100	273x114.3	300	215
6x1 1/4	6.626x1.669	2.07	5.512	10x4	10.748x4.5	2.07	8.465
150x40	168.3x48.3	300	140	250x125	273x133	300	215
6x1 1/2	6.626x1.902	2.07	5.512	10x5	10.748x5.236	2.07	8.465
150x50	168.3x60.3	300	140	250x125	273x139.7	300	215
6x2	6.626x2.375	2.07	5.512	10x5	10.748x5.5	2.07	8.465
150x65	168.3x76.1	300	140	250x150	273x159	300	215
6x2 1/2	6.626x2.996	2.07	5.512	10x6	10.748x6.26	2.07	8.465
150x80	168.3x88.9	300	140	250x150	273x168.3	300	215
6x3	6.626x3.5	2.07	5.512	10x6	10.748x6.626	2.07	8.465
150x100	168.3x114.3	300	140	250x150	273x165.1	300	215
6x4	6.626x4.5	2.07	5.512	10x6	10.748x6.5	2.07	8.465
150x125	168.3x139.7	300	140	250x200	273x219.1	300	215
6x5	6.626x5.5	2.07	5.512	10x8	10.748x8.626	2.07	8.465

Reducing Cross (Threaded)



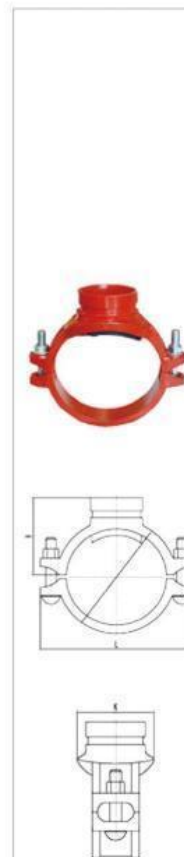
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in	Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
50x25	60.3x33.7	300	70	100x50	108x60.3	300	102
2x1	2.375x1.327	2.07	2.756	4x2	4.25x2.375	2.07	4.016
50x32	60.3x42.4	300	70	100x65	108x76.1	300	102
2x1 1/4	2.375x1.669	2.07	2.756	4x2 1/2	4.25x2.996	2.07	4.016
50x40	60.3x48.3	300	70	100x80	108x88.9	300	102
2x1 1/2	2.375x1.902	2.07	2.756	4x3	4.25x3.5	2.07	4.016
65x25	76.1x33.7	300	76	100x25	114.3x33.7	300	102
2 1/2x1	2.996x1.327	2.07	2.992	4x1	4.5x1.327	2.07	4.016
65x32	76.1x42.4	300	76	100x32	114.3x42.4	300	102
2 1/2x1 1/4	2.996x1.669	2.07	2.992	4x1 1/4	4.5x1.669	2.07	4.016
65x40	76.1x48.3	300	76	100x40	114.3x48.3	300	102
2 1/2x1 1/2	2.996x1.902	2.07	2.992	4x1 1/2	4.5x1.902	2.07	4.016
65x50	76.1x60.3	300	76	100x50	114.3x60.3	300	102
2 1/2x2	2.996x2.374	2.07	2.992	4x2	4.5x2.374	2.07	4.016
80x25	88.9x33.7	300	86	100x65	114.3x76.1	300	102
3x1	3.5x1.327	2.07	3.386	4x2 1/2	4.5x2.669	2.07	4.016
80x32	88.9x42.4	300	86	100x80	114.3x88.9	300	102
3x1 1/4	3.5x1.669	2.07	3.386	4x3	4.5x3.5	2.07	4.016
80x40	88.9x48.3	300	86	125x25	133x33.7	300	122
3x1 1/2	3.5x1.902	2.07	3.386	5x1	5.236x1.327	2.07	4.803
80x50	88.9x60.3	300	86	125x32	133x42.4	300	122
3x2	3.5x2.374	2.07	3.386	5x1 1/4	5.236x1.669	2.07	4.803
80x65	88.9x76.1	300	86	125x40	133x48.3	300	122
3x2 1/2	3.5x2.669	2.07	3.386	5x1 1/2	5.236x1.902	2.07	4.803
100x25	108x33.7	300	102	125x50	133x60.3	300	122
4x1	4.25x1.327	2.07	4.016	5x2	5.236x2.374	2.07	4.803
100x32	108x42.4	300	102	125x65	133x76.1	300	122
4x1 1/4	4.25x1.669	2.07	4.016	5x2 1/2	5.236x2.996	2.07	4.803
100x40	108x48.3	300	102	125x80	133x88.9	300	122
4x1 1/2	4.25x1.902	2.07	4.016	5x3	5.236x3.5	2.07	4.803

Reducing Cross (Threaded)



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in	Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
125x25	139.7x33.7	300	122	150x50	165.1x60.3	300	140
5x1	5.5x1.327	2.07	4.803	6x2	6.5x2.374	2.07	5.512
125x32	139.7x42.4	300	122	150x65	165.1x76.1	300	140
5x1 1/4	5.5x1.669	2.07	4.803	6x2 1/2	6.5x2.996	2.07	5.512
125x40	139.7x48.3	300	122	150x80	165.1x88.9	300	140
5x1 1/2	5.5x1.902	2.07	4.803	6x3	6.5x3.5	2.07	5.512
125x50	139.7x60.3	300	122	150x100	165.1x114.3	300	140
5x2	5.5x2.374	2.07	4.803	6x4	6.5x4.5	2.07	5.512
125x65	139.7x76.1	300	122	150x25	168.3x33.7	300	140
5x2 1/2	5.5x2.996	2.07	4.803	6x1	6.626x1.327	2.07	5.512
125x80	139.7x88.9	300	122	150x32	168.3x42.4	300	140
5x3	5.5x3.5	2.07	4.803	6x1 1/4	6.626x1.669	2.07	5.512
150x25	159x33.7	300	140	150x40	168.3x48.3	300	140
6x1	6.26x1.327	2.07	5.512	6x1 1/2	6.626x1.902	2.07	5.512
150x32	159x42.4	300	140	150x50	168.3x60.3	300	140
6x1 1/4	6.26x1.669	2.07	5.512	6x2	6.626x2.375	2.07	5.512
150x40	159x48.3	300	140	150x65	168.3x76.1	300	140
6x1 1/2	6.26x1.902	2.07	5.512	6x2 1/2	6.626x2.996	2.07	5.512
150x50	159x60.3	300	140	150x80	168.3x88.9	300	140
6x2	6.26x2.374	2.07	5.512	6x3	6.626x3.5	2.07	5.512
150x65	159x76.1	300	140	150x100	168.3x114.3	300	140
6x2 1/2	6.26x2.996	2.07	5.512	6x4	6.626x4.5	2.07	5.512
150x80	159x88.9	300	140	200x50	219x60.3	300	175
6x3	6.26x3.5	2.07	5.512	8x2	8.622x2.375	2.07	6.890
150x25	165.1x33.7	300	140	200x65	219x76.1	300	175
6x1	6.5x1.327	2.07	5.512	8x2 1/2	8.622x2.996	2.07	6.890
150x32	165.1x42.4	300	140	200x80	219x88.9	300	175
6x1 1/2	6.5x1.669	2.07	5.512	5x3	8.622x3.5	2.07	6.890
150x40	165.1x48.3	300	140	200x100	219x114.3	300	175
6x1 1/2	6.5x1.902	2.07	5.512	8x4	8.622x4.5	2.07	6.890

Mechanical Tee (Grooved)



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Bolt Size No.-Size mm	Dimensions mm/in				Hole Dia mm/in +1.6,0/+0.063,0
				Φ	L	K	H	
50x25	60.3x33.7	300	2-M10x60	81	116	64.5	64	38
2 1/2x1	2.375x1.327	2.07		3.189	4.567	2.539	2.520	1.496
50x32	60.3x42.4	300		81	116	64.5	68	46
2x1 1/4	2.375x1.699	2.07		3.189	4.567	2.539	2.677	1.811
50x40	60.3x48.3	300		81	116	64.5	68	46
2x1 1/2	2.375x1.90	2.07		3.189	4.567	2.539	2.677	1.811
65x25	73.0x33.7	300		98	137	73	69	38
2 1/2x1	2.875x1.327	2.07		3.858	5.394	2.874	2.717	1.496
65x32	73.0x42.4	300		98	137	73	76	46
2 1/2x1 1/4	2.875x1.669	2.07		3.858	5.394	2.874	2.992	1.811
65x40	73.0x48.3	300		98	137	73	82	51
2 1/2x1 1/2	2.875x1.90	2.07		3.858	5.394	2.874	3.228	2.007
65x25	76.1x33.7	300		98	137	73	69	38
2 1/2x1	2.996x1.327	2.07		3.858	5.394	2.874	2.717	1.496
65x32	76.1x42.4	300		98	137	73	76	46
2 1/2x1 1/4	2.996x1.669	2.07		3.858	5.394	2.874	2.992	1.811
65x40	76.1x48.3	300		98	137	73	82	51
2 1/2x1 1/2	2.996x1.90	2.07		3.858	5.394	2.874	3.228	2.007
80x25	88.9x33.7	300		113	146	80.5	69	38
3x1	3.50x1.327	2.07		4.449	5.748	3.169	2.717	1.496
80x32	88.9x42.4	300		113	146	80.5	76	46
3x1 1/4	3.50x1.669	2.07		4.449	5.748	3.169	2.992	1.811
80x40	88.9x48.3	300		113	146	80.5	82	51
3x1 1/2	3.50x1.90	2.07		4.449	5.748	3.169	3.228	2.007
80x50	88.9x60.3	300		113	146	80.5	91	61
3x2	3.50x2.375	2.07		4.449	5.748	3.169	3.583	2.402
100x25	108.0x33.7	300	2-M12x75	132	166	90	70	38
4x1	4.252x1.327	2.07		5.197	6.535	3.543	2.756	1.496
100x32	108.0x42.4	300		132	166	90	77	46
4x1 1/4	4.252x1.669	2.07		5.197	6.535	3.543	3.031	1.811
100x40	108.0x48.3	300		132	166	90	83	51
4x1 1/2	4.252x1.90	2.07		5.197	6.535	3.543	3.268	2.008
100x50	108.0x60.3	300		132	166	90	92	61
4x2	4.252x2.375	2.07		5.197	6.535	3.543	3.622	2.402
100x65	108.0x76.1	300		132	166	90	112	81
4x2 1/2	4.252x2.996	2.07		5.197	6.535	3.543	4.409	3.189
100x25	114.3x33.7	300		138	176	93	70	38
4x1	4.50x1.327	2.07		5.433	6.926	3.661	2.756	1.496
100x32	114.3x42.4	300		138	176	93	77	46
4x1 1/4	4.50x1.669	2.07		5.433	6.929	3.661	3.031	1.811
100x40	114.3x48.3	300		138	176	93	83	51
4x1 1/2	4.50x1.90	2.07		5.433	6.929	3.661	3.268	2.007
100x50	114.3x60.3	300		138	176	93	92	61
4x2	4.50x2.375	2.07		5.433	6.929	3.661	3.622	2.402
100x65	114.3x76.1	300		138	176	93	112	81
4x2 1/2	4.50x2.996	2.07		5.433	6.929	3.661	4.409	3.189
100x80	114.3x88.9	300		138	176	93	118	86
4x3	4.50x3.50	2.07		5.433	6.929	3.661	4.646	3.386
125x25	139.7x33.7	300		164	206	105	70	38
5x1	5.50x1.327	2.07		6.457	8.110	4.144	2.756	1.496
125x32	139.7x42.4	300		164	206	105	77	46
5x1 1/4	5.50x1.669	2.07		6.457	8.110	4.144	3.031	1.811
125x40	139.7x48.3	300		164	206	105	83	51
5x1 1/2	5.50x1.90	2.07		6.457	8.110	4.144	3.268	2.008
125x50	139.7x60.3	300		164	206	106	92	61
5x2	5.50x2.375	2.07		6.457	8.110	4.173	3.622	2.402
125x65	139.7x76.1	300		164	206	106	112	81
5x2 1/2	5.50x2.996	2.07		6.457	8.110	4.173	4.409	3.189
125x80	139.7x88.9	300		164	206	106	118	86
5x3	5.50x3.50	2.07		6.457	8.110	4.173	4.646	3.386

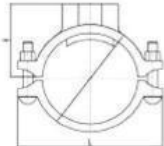
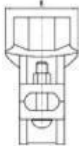
Mechanical Tee (Grooved)

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Bolt Size No.-Size mm	Dimensions mm/in				Hole Dia mm/in +1.6,0/+0.063,0
				Φ	L	K	H	
125x25	141.3x33.7	300	2-M12x75	164	206	105	70	38
5x1	5.56x1.327	2.07		6.457	8.110	4.144	2.756	1.496
125x32	141.3x42.4	300		164	206	105	77	46
5x1 1/4	5.56x1.669	2.07		6.457	8.110	4.144	3.031	1.811
125x40	141.3x48.3	300		164	206	105	83	51
5x1 1/2	5.56x1.90	2.07		6.457	8.110	4.144	3.268	2.008
125x50	141.3x60.3	300		164	206	106	92	61
5x2	5.56x2.375	2.07		6.457	8.110	4.173	3.622	2.402
125x65	141.3x76.1	300		164	206	106	112	81
5x2 1/2	5.56x2.996	2.07		6.457	8.110	4.173	4.409	3.189
125x80	141.3x88.9	300		164	206	106	118	86
5x3	5.56x3.50	2.07		6.457	8.110	4.173	4.646	3.386
150x25	165.1x33.7	300		189	226	118.5	70	38
6x1	6.50x1.327	2.07		7.441	8.898	4.665	2.756	1.496
150x25	165.1x42.4	300		189	226	118.5	77	46
6x1	6.50x1.669	2.07		7.441	8.898	4.665	3.031	1.811
150x40	165.1x48.3	300	2-M16x100	189	226	118.5	83	51
6x1 1/2	6.50x1.90	2.07		7.441	8.898	4.665	3.268	2.008
150x50	165.1x60.3	300		189	226	118.5	92	61
6x2	6.50x2.375	2.07		7.441	8.898	4.665	3.622	2.402
150x65	165.1x76.1	300		189	226	118.5	112	81
6x2 1/2	6.50x2.996	2.07		7.441	8.898	4.665	4.409	3.189
150x80	165.1x88.9	300		189	226	118.5	118	86
6x3	6.50x3.50	2.07		7.441	8.898	4.665	4.646	3.386
150x100	165.1x114.3	300		189	226	118.5	147	114
6x4	6.50x4.50	2.07		7.441	8.898	4.665	5.787	4.488
150x25	168.3x33.7	300		192	228	120	70	38
6x1	6.62x1.327	2.07		7.559	8.976	4.724	2.756	1.496
150x32	168.3x42.4	300		192	228	120	77	46
6x1 1/4	6.625x1.669	2.07		7.559	8.976	4.724	3.031	1.811
150x40	168.3x48.3	300		192	228	120	83	51
6x1 1/2	6.625x1.90	2.07		7.559	8.976	4.724	3.268	2.007
150x50	168.3x60.3	300	2-M16x100	192	228	120	92	61
6x2	6.625x2.375	2.07		7.559	8.976	4.724	3.622	2.401
150x65	168.3x76.1	300		192	228	120	112	81
6x2 1/2	6.625x2.996	2.07		7.559	8.976	4.724	4.409	3.228
150x80	168.3x88.9	300		192	228	120	118	86
6x3	6.625x3.50	2.07		7.559	8.976	4.724	4.646	3.385
150x100	168.3x114.3	300		192	228	120	147	114
6x4	6.625x4.50	2.07		7.559	8.976	4.724	5.787	4.488
200x25	219.1x33.7	300		247	304	149.5	72	38
8x1	8.625x1.327	2.07		9.724	11.969	5.886	2.835	1.496
200x32	219.1x42.4	300		247	304	149.5	79	46
8x1 1/4	8.625x1.669	2.07		9.724	11.969	5.886	3.110	1.811
200x40	219.1x48.3	300		247	304	149.5	85	51
8x1 1/2	8.625x1.90	2.07		9.724	11.969	5.886	3.212	2.008
200x50	219.1x60.3	300		247	304	149.5	94	61
8x2	8.625x2.375	2.07		9.724	11.969	5.886	3.701	2.401
200x65	219.1x76.1	300	2-M16x100	247	304	149.5	114	81
8x2 1/2	8.625x2.996	2.07		9.724	11.969	5.886	4.488	3.228
200x80	219.1x88.9	300		247	304	149.5	120	86
8x3	8.625x3.50	2.07		9.724	11.969	5.886	4.724	3.385
200x100	219.1x108	300		247	304	149.5	149	114
8x4	8.625x4.252	2.07		9.724	11.969	5.886	4.488	4.488
200x100	219.1x114.3	300		247	304	149.5	149	114
8x4	8.625x4.50	2.07		9.724	11.969	5.886	5.866	4.488

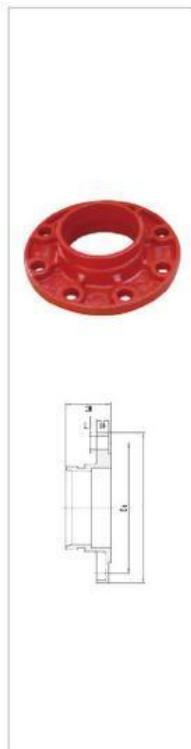
Mechanical Tee (Threaded)

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Bolt Size No.-Size mm	Dimensions mm/in				Hole Dia mm/in +1.6,0/+0.063,0
				Φ	L	K	H	
50x25	60.3x33.7	300	2-M10x60	81	116	55	62	38
2x1	2.375x1.327	2.07		3.189	4.567	2.165	2.441	1.496
50x32	60.3x42.4	300		81	116	55	68	46
2x1 1/4	2.375x1.699	2.07		3.189	4.567	2.165	2.677	1.811
50x40	60.3x48.3	300		81	116	55	68	46
2x1 1/2	2.375x1.90	2.07		3.189	4.567	2.165	2.677	1.811
65x25	73.0x33.7	300		98	137	65	69	38
2 1/2x1	2.875x1.327	2.07		3.858	5.394	2.559	2.717	1.496
65x32	73.0x42.4	300		98	137	65	76	46
2 1/2x1 1/4	2.875x1.669	2.07		3.858	5.394	2.559	2.992	1.811
65x40	73.0x48.3	300		98	137	65	82	51
2 1/2 x1 1/2	2.875x1.90	2.07		3.858	5.394	2.559	3.228	2.008
65x25	76.1x33.7	300		98	137	65	69	38
2 1/2x1	2.996x1.327	2.07		3.858	5.394	2.559	2.717	1.496
65x32	76.1x42.4	300		98	137	65	76	46
2 1/2x1 1/4	2.996x1.669	2.07		3.858	5.394	2.559	2.992	1.811
65x40	76.1x48.3	300	2-M12x75	98	137	65	82	51
2 1/2 x1 1/2	2.996x1.90	2.07		3.858	5.394	2.559	3.228	2.008
80x25	88.9x33.7	300		113	146	75	69	38
3x1	3.50x1.327	2.07		4.449	5.748	2.953	2.717	1.496
80x32	88.9x42.4	300		113	146	75	76	46
3x1 1/4	3.50x1.669	2.07		4.449	5.748	2.953	2.992	1.811
80x40	88.9x48.3	300		113	146	75	82	51
3x1 1/2	3.50x1.90	2.07		4.449	5.748	2.953	3.228	2.008
80x50	88.9x60.3	300		113	146	75	91	61
3x2	3.50x2.375	2.07		4.449	5.748	2.953	3.583	2.402
100x25	108.0x33.7	300	2-M12x75	132	166	80	70	38
4x1	4.252x1.327	2.07		5.197	6.535	3.150	2.756	1.496
100x32	108.0x42.4	300		132	166	80	77	46
4x1 1/4	4.252x1.669	2.07		5.197	6.535	3.150	3.031	1.811
100x40	108.0x48.3	300		132	166	80	83	51
4x1 1/2	4.252x1.90	2.07		5.197	6.535	3.150	3.268	2.008
100x50	108.0x60.3	300		132	166	82	92	61
4x2	4.252x2.375	2.07		5.197	6.535	3.228	3.622	2.402
100x65	108.0x76.1	300		132	166	82	112	81
4x2 1/2	4.252x2.996	2.07		5.197	6.535	3.228	4.409	2.756
100x25	114.3x33.7	300		138	176	83	70	38
4x1	4.50x1.327	2.07		5.433	6.929	3.268	2.756	1.496
100x32	114.3x42.4	300		138	176	85	77	46
4x1 1/4	4.50x1.669	2.07		5.443	6.929	3.346	3.031	1.811
100x40	114.3x48.3	300		138	176	85	83	51
4x1 1/2	4.50x1.90	2.07		5.443	6.929	3.346	3.268	2.008
100x50	114.3x60.3	300	2-M12x75	138	176	85	92	61
4x2	4.50x2.375	2.07		5.443	6.929	3.346	3.622	2.402
100x65	114.3x76.1	300		138	176	85	112	81
4x2 1/2	4.50x2.996	2.07		5.443	6.929	3.346	4.409	3.189
100x80	114.3x88.9	300		138	176	85	118	86
4x3	4.50x3.50	2.07		5.443	6.929	3.346	4.646	3.386
125x25	139.7x33.7	300		164	206	98	70	38
5x1	5.50x1.327	2.07		6.457	8.110	3.858	2.756	1.496
125x32	139.7x42.4	300		164	206	98	77	46
5x1 1/4	5.50x1.669	2.07		6.457	8.110	3.858	3.031	1.811
125x40	139.7x48.3	300		164	206	98	83	51
5x1 1/2	5.50x1.90	2.07		6.457	8.110	3.858	3.268	2.008
125x50	139.7x60.3	300		164	206	98	92	61
5x2	5.50x2.375	2.07		6.457	8.110	3.858	3.622	2.402
125x65	139.7x76.1	300		164	206	98	112	81
5x2 1/2	5.50x2.996	2.07		6.457	8.110	3.858	4.409	3.189
125x80	139.7x88.9	300	2-M12x75	164	206	98	118	86
5x3	5.50x3.50	2.07		6.457	8.110	3.858	4.646	3.386

Mechanical Tee (Threaded)

	Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Bolt Size No.-Size mm	Dimensions mm/in				Hole Dia
					Φ	L	K	H	mm/in +1.6,0/+0.063,0
  	125x25	141.3x33.7	300	2-M12x75	164	206	98	70	38
	5x1	5.56x1.327	2.07		6.457	8.110	3.858	2.756	1.496
	125x32	141.3x42.4	300		164	206	98	77	46
	5x1 1/4	5.56x1.669	2.07		6.457	8.110	3.858	3.031	1.811
	125x40	141.3x48.3	300		164	206	98	83	51
	5x1 1/2	5.56x1.90	2.07		6.457	8.110	3.858	3.268	2.008
	125x50	141.3x60.3	300		164	206	98	92	61
	5x2	5.56x2.375	2.07		6.457	8.110	3.858	3.622	2.402
	125x65	141.3x76.1	300		164	206	98	112	81
	5x2 1/2	5.56x2.996	2.07		6.457	8.110	3.858	4.409	3.189
	125x80	141.3x88.9	300		164	206	98	118	86
	5x3	5.56x3.50	2.07		6.457	8.110	3.858	4.646	3.386
	150x25	159.0x33.7	300		183	222	110	70	38
	6x1	6.260x1.327	2.07		7.205	8.740	4.331	2.756	1.496
	150x32	159.0x42.4	300		183	222	110	77	46
	6x1 1/4	6.260x1.669	2.07		7.205	8.740	4.331	3.031	1.811
	150x40	159.0x48.3	300		183	222	110	83	51
	6x1 1/2	6.260x1.90	2.07		7.205	8.740	4.331	3.268	2.008
	150x50	159.0x60.3	300		183	222	110	92	61
	6x2	6.260x2.375	2.07		7.205	8.740	4.331	3.622	2.402
	150x65	159.0x76.1	300		183	222	110	112	81
	6x2 1/2	6.260x2.996	2.07		7.205	8.740	4.331	4.409	3.189
	150x80	159.0x88.9	300		183	222	110	118	86
	6x3	6.260x3.500	2.07		7.205	8.740	4.331	4.646	3.386
	150x100	165.1x114.3	300		189	226	113	149	114
	6x4	6.50x1.327	2.07		7.441	8.898	4.449	2.756	1.496
	150x125	165.1x142.4	300		189	226	113	177	146
	6x5	6.500x1.669	2.07		7.441	8.898	4.449	3.031	1.811
	150x150	165.1x168.3	300		189	226	113	183	151
	6x6	6.50x1.90	2.07		7.441	8.898	4.449	3.268	2.008
	150x200	165.1x219.1	300		189	226	113	219	187
	6x8	6.50x2.375	2.07		7.441	8.898	4.449	3.622	2.402
150x250	165.1x276.1	300	189	226	113	276	240		
6x10	6.50x2.996	2.07	7.441	8.898	4.449	4.409	3.189		
150x300	165.1x333.7	300	189	226	113	333	301		
6x12	6.50x3.500	2.07	7.441	8.898	4.449	4.646	3.386		
150x350	165.1x381.3	300	189	226	113	381	349		
6x14	6.50x4.125	2.07	7.441	8.898	4.449	5.000	3.750		
150x400	165.1x438.3	300	189	226	113	438	406		
6x16	6.50x4.750	2.07	7.441	8.898	4.449	5.400	4.150		
150x450	165.1x495.3	300	189	226	113	495	463		
6x18	6.50x5.375	2.07	7.441	8.898	4.449	5.800	4.550		
150x500	165.1x552.3	300	189	226	113	552	520		
6x20	6.50x6.000	2.07	7.441	8.898	4.449	6.200	4.950		
150x550	165.1x609.3	300	189	226	113	609	577		
6x22	6.50x6.625	2.07	7.441	8.898	4.449	6.600	5.350		
150x600	165.1x666.3	300	189	226	113	666	634		
6x24	6.50x7.250	2.07	7.441	8.898	4.449	7.000	5.750		
150x650	165.1x723.3	300	189	226	113	723	691		
6x26	6.50x7.875	2.07	7.441	8.898	4.449	7.400	6.150		
150x700	165.1x780.3	300	189	226	113	780	748		
6x28	6.50x8.500	2.07	7.441	8.898	4.449	7.800	6.550		
150x750	165.1x837.3	300	189	226	113	837	805		
6x30	6.50x9.125	2.07	7.441	8.898	4.449	8.200	6.950		
150x800	165.1x894.3	300	189	226	113	894	862		
6x32	6.50x9.750	2.07	7.441	8.898	4.449	8.600	7.350		
150x850	165.1x951.3	300	189	226	113	951	919		
6x34	6.50x10.375	2.07	7.441	8.898	4.449	9.000	7.750		
150x900	165.1x1008.3	300	189	226	113	1008	976		
6x36	6.50x11.000	2.07	7.441	8.898	4.449	9.400	8.150		
150x950	165.1x1065.3	300	189	226	113	1065	1033		
6x38	6.50x11.625	2.07	7.441	8.898	4.449	9.800	8.550		
150x1000	165.1x1122.3	300	189	226	113	1122	1090		
6x40	6.50x12.250	2.07	7.441	8.898	4.449	10.200	8.950		
150x1050	165.1x1179.3	300	189	226	113	1179	1147		
6x42	6.50x12.875	2.07	7.441	8.898	4.449	10.600	9.350		
150x1100	165.1x1236.3	300	189	226	113	1236	1204		
6x44	6.50x13.500	2.07	7.441	8.898	4.449	11.000	9.750		
150x1150	165.1x1293.3	300	189	226	113	1293	1261		
6x46	6.50x14.125	2.07	7.441	8.898	4.449	11.400	10.150		
150x1200	165.1x1350.3	300	189	226	113	1350	1318		
6x48	6.50x14.750	2.07	7.441	8.898	4.449	11.800	10.550		
150x1250	165.1x1407.3	300	189	226	113	1407	1375		
6x50	6.50x15.375	2.07	7.441	8.898	4.449	12.200	10.950		
150x1300	165.1x1464.3	300	189	226	113	1464	1432		
6x52	6.50x16.000	2.07	7.441	8.898	4.449	12.600	11.350		
150x1350	165.1x1521.3	300	189	226	113	1521	1489		
6x54	6.50x16.625	2.07	7.441	8.898	4.449	13.000	11.750		
150x1400	165.1x1578.3	300	189	226	113	1578	1546		
6x56	6.50x17.250	2.07	7.441	8.898	4.449	13.400	12.150		
150x1450	165.1x1635.3	300	189	226	113	1635	1603		
6x58	6.50x17.875	2.07	7.441	8.898	4.449	13.800	12.550		
150x1500	165.1x1692.3	300	189	226	113	1692	1660		
6x60	6.50x18.500	2.07	7.441	8.898	4.449	14.200	12.950		
150x1550	165.1x1749.3	300	189	226	113	1749	1717		
6x62	6.50x19.125	2.07	7.441	8.898	4.449	14.600	13.350		
150x1600	165.1x1806.3	300	189	226	113	1806	1774		
6x64	6.50x19.750	2.07	7.441	8.898	4.449	15.000	13.750		
150x1650	165.1x1863.3	300	189	226	113	1863	1831		
6x66	6.50x20.375	2.07	7.441	8.898	4.449	15.400	14.150		
150x1700	165.1x1920.3	300	189	226	113	1920	1888		
6x68	6.50x21.000	2.07	7.441	8.898	4.449	15.800	14.550		
150x1750	165.1x1977.3	300	189	226	113	1977	1945		
6x70	6.50x21.625	2.07	7.441	8.898	4.449	16.200	14.950		
150x1800	165.1x2034.3	300	189	226	113	2034	2002		
6x72	6.50x22.250	2.07	7.441	8.898	4.449	16.600	15.350		
150x1850	165.1x2091.3	300	189	226	113	2091	2059		
6x74	6.50x22.875	2.07	7.441	8.898	4.449	17.000	15.750		
150x1900	165.1x2148.3	300	189	226	113	2148	2116		
6x76	6.50x23.500	2.07	7.441	8.898	4.449	17.400	16.150		
150x1950	165.1x2205.3	300	189	226	113	2205	2173		
6x78	6.50x24.125	2.07	7.441	8.898	4.449	17.800	16.550		
150x2000	165.1x2262.3	300	189	226	113	2262	2230		
6x80	6.50x24.750	2.07	7.441	8.898	4.449	18.200	16.950		
150x2050	165.1x2319.3	300	189	226	113	2319	2287		
6x82	6.50x25.375	2.07	7.441	8.898	4.449	18.600	17.350		
150x2100	165.1x2376.3	300	189	226	113	2376	2344		
6x84	6.50x26.000	2.07	7.441	8.898	4.449	19.000	17.750		
150x2150	165.1x2433.3	300	189	226	113	2433	2401		
6x86	6.50x26.625	2.07	7.441	8.898	4.449	19.400	18.150		
150x2200	165.1x2490.3	300	189	226	113	2490	2458		
6x88	6.50x27.250	2.07	7.441	8.898	4.449	19.800	18.550		
150x2250	165.1x2547.3	300	189	226	113	2547	2515		
6x90	6.50x27.875	2.07	7.441	8.898	4.449	20.200	18.950		
150x2300	165.1x2604.3	300	189	226	113	2604	2572		
6x92	6.50x28.500	2.07	7.441	8.898	4.449	20.600	19.350		
150x2350	165.1x2661.3	300	189	226	113	2661	2629		
6x94	6.50x29.125	2.07	7.441	8.898	4.449	21.000	19.750		
150x2400	165.1x2718.3	300	189	226	113	2718	2686		
6x96	6.50x29.750	2.07	7.441	8.898	4.449	21.400	20.150		
150x2450	165.1x2775.3	300	189	226	113	2775	2743		
6x98	6.50x30.375	2.07	7.441	8.898	4.449	21.800	20.550		
150x2500	165.1x2832.3	300	189	226	113	2832	2800		
6x100	6.50x31.000	2.07	7.441	8.898	4.449	22.200	20.950		
150x2550	165.1x2889.3	300	189	226	113	2889	2857		
6x102	6.50x31.625	2.07	7.441	8.898	4.449	22.600	21.350		
150x2600	165.1x2946.3	300	189	226	113	2946	2914		
6x104	6.50x32.250	2.07	7.441	8.898	4.449	23.000	21.750		
150x2650	165.1x3003.3	300	189	226	113	3003	2971		
6x106	6.50x32.875	2.07	7.441	8.898	4.449	23.400	22.150		
150x2700	165.1x3060.3	300	189	226	113	3060	3028		
6x108	6.50x33.500	2.07	7.441	8.898	4.449	23.800	22.550		
150x2750	165.1x3117.3	300	189	226	113	3117	3085		
6x110	6.50x34.125	2.07	7.441	8.898	4.449	24.200	22.950		
150x2800	165.1x3174.3	300	189	226	113	3174	3142		
6x112	6.50x34.750	2.07	7.441	8.898	4.449	24.600	23.350		
150x2850	165.1x3231.3	300	189	226	113	3231	3200		
6x114	6.50x35.375	2.07	7.441	8.898	4.449	25.000	23.750		
150x2900	165.1x3288.3	300	189	226	113	3288	3257		
6x116	6.50x36.000	2.07	7.441	8.898	4.449	25.400	24.150		
150x2950	165.1x3345.3	300	189	226	113	3345	3314		
6x11									

Flange Adaptor PN16



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Dimensions mm/in				Bolt/Nut NO.-Size mm
			Do	H1	H2	Φ	
50	60.3	300	125	16	60	160	4xM16
2	2.374	2.07	4.921	0.630	2.362	6.299	4xM16
65	73.0	300	145	16	60	180	4xM16
2 1/2	2.875	2.07	5.709	0.630	2.362	7.087	4xM16
65	76.1	300	145	16	60	180	4xM16
2 1/2	3	2.07	5.709	0.630	2.362	7.087	4xM16
80	88.9	300	160	17	60	195	8xM16
3	3.5	2.07	6.299	0.669	2.362	7.677	8xM16
100	108	300	180	17	60	215	8xM16
4	4.25	2.07	7.087	0.669	2.362	8.465	8xM16
100	114.3	300	180	17	60	215	8xM16
4	4.5	2.07	7.087	0.669	2.362	8.465	8xM16
125	133	300	210	19	65	245	8xM16
5	5.25	2.07	8.268	0.748	2.559	9.646	8xM16
125	139.7	300	210	19	65	245	8xM16
5	5.5	2.07	8.268	0.748	2.559	9.646	8xM16
125	141.3	300	210	19	65	245	8xM16
5	5.56	2.07	8.268	0.748	2.559	9.646	8xM16
150	159	300	240	20	65	280	8xM20
6	6.25	2.07	9.449	0.787	2.559	11.024	8xM20
150	165.1	300	240	20	65	280	8xM20
6	6.5	2.07	9.449	0.787	2.559	11.024	8xM20
150	168.3	300	240	20	65	280	8xM20
6	6.625	2.07	9.449	0.787	2.559	11.024	8xM20
200	219.1	300	295	20	75	330	12xM20
8	8.625	2.07	11.614	0.787	2.952	12.992	12xM20
250	273	300	295	25	85	400	12xM20
10	10.748	2.07	11.614	0.984	3.346	15.748	12xM20
300	323.9	300	410	25	90	460	12xM24
12	12.752	2.07	16.142	0.987	3.543	18.110	12xM24

Adaptor Flange PN25



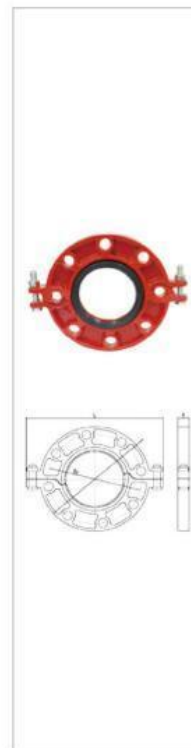
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Dimensions mm/in				Bolt/Nut NO.-Size mm
			Do	H1	H2	Φ	
100	108.0	300	190	18	70	230	8xM20
108.0	4.250	2.07	7.48	0.71	2.756	9.05	8xM20
100	114.3	300	190	16	70	235	8xM20
4	4.500	2.07	7.48	0.63	2.756	9.25	8xM20
150	159.0	300	250	20	70	300	8xM20
159.0	6.250	2.07	9.85	0.79	2.756	11.80	8xM20
150	165.1	300	250	18	70	300	8xM20
165.1	6.500	2.07	9.84	0.71	2.756	11.80	8xM20
200	219.1	300	310	19	80	360	8xM20
8	8.625	2.07	12.20	0.75	3.150	14.17	8xM20

Flange Adaptor (Threaded)



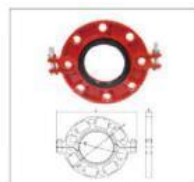
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Dimensions mm/in				Bolt/Nut NO.-Size mm
			Do	H1	H2	Φ	
50	60.3	300	125	16	30	160	4xM16
2	2.374	2.07	4.921	0.630	1.181	6.299	4xM16
65	76.1	300	145	16	30	180	4xM16
2 1/2	3	2.07	5.709	0.630	1.181	7.087	4xM16
80	88.9	300	160	17	30	195	8xM16
3	3.5	2.07	6.299	0.669	1.181	7.677	8xM16
100	114.3	300	180	17	30	215	8xM16
4	4.5	2.07	7.087	0.669	1.181	8.465	8xM16

Grooved Flange PN16



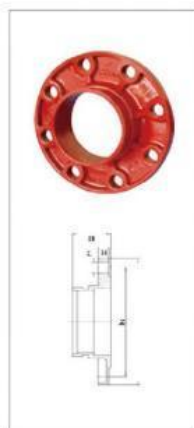
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Dimensions mm/in				Bolt/Nut NO.-Size mm
			Do	L	K	Φ	
50	60.3	300	125	220	22	160	4xM16
2	2.374	2.07	4.921	8.661	0.866	6.299	4xM16
65	73.0	300	145	225	22	180	4xM16
2 1/2	2.875	2.07	5.709	8.858	0.866	7.087	4xM16
65	76.1	300	145	225	22	180	4xM16
2 1/2	3	2.07	5.709	8.858	0.866	7.087	4xM16
80	88.9	300	160	253	22	195	8xM16
3	3.5	2.07	6.299	9.961	0.866	7.677	8xM16
100	108	300	180	262	22	215	8xM16
4	4.25	2.07	7.087	10.315	0.866	8.465	8xM16
100	114.3	300	180	262	22	215	8xM16
4	4.5	2.07	7.087	10.315	0.866	8.465	8xM16
125	133	300	210	292	22	245	8xM16
5	5.25	2.07	8.268	10.315	0.866	9.646	8xM16
125	139.7	300	210	292	22	245	8xM16
5	5.5	2.07	8.268	10.315	0.866	9.646	8xM16
125	141.3	300	210	292	22	245	8xM16
5	5.56	2.07	8.268	10.315	0.866	9.646	8xM16
150	159	300	240	340	22	280	8xM20
6	6	2.07	9.449	13.386	0.866	11.024	8xM20
150	165.1	300	240	340	22	280	8xM20
6	6.5	2.07	9.449	13.386	0.866	11.024	8xM20
150	168.3	300	240	340	22	280	8xM20
6	6.625	2.07	9.449	13.386	0.866	11.024	8xM20
200	219.1	300	295	408	25	330	12xM20
8	8.625	2.07	11.614	16.063	0.984	12.992	12xM20

Grooved Flange PN25



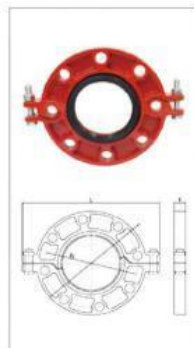
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Dimensions mm/in				Bolt/Nut	
			Do	L	K	Φ	NO.-Size mm	
100	108.0	300	180	280	25.5	220	2-M12X55	8XM16
108.0	4.250	2.07	7.09	11.02	1.00	8.66		
150	165.1	300	240	346	25.5	280	2-M12X65	8XM20
165.1	6.500	2.07	9.45	13.62	1.00	11.00		

Flange Adaptor ANSI-Class 125/150



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Dimensions mm/in				Bolt/Nut	
			Do	H1	H2	Φ	NO.-Size mm	
50	60.3	300	120.5	19	60.3	152	4XM16	
2	2.375	2.07	4.744	0.748	2.37	5.98		
65	73.0	300	139.5	24	60.3	178	4XM16	
2 1/2	2.875	2.07	5.693	0.944	2.37	7.00		
80	88.9	300	152.5	24	60.3	190	4XM16	
3	3.500	2.07	6.00	0.944	2.37	7.48		
100	114.3	300	190.5	24	70	229	4XM16	
4	4.500	2.07	7.5	0.944	2.755	9.015		
125	141.3	300	216	24	70	254	8XM20	
5	5.56	2.07	8.503	0.944	2.755	10		
150	168.3	300	241.5	25	70	279	8XM20	
6	6.625	2.07	9.507	0.984	2.755	10.98		
200	219.1	300	298.5	29	76.1	343	8XM20	
8	8.625	2.07	11.751	1.141	2.99	13.50		
250	273.0	300	362	30	85	406	12XM22	
10	10.750	2.07	14.251	1.181	3.346	15.98		
300	323.9	300	432	32	90	483	12XM22	
12	12.750	2.07	17.00	1.259	3.543	19.01		

Grooved Flange ANSI-Class 125/150



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Dimensions mm/in				Bolt/Nut	
			Do	L	K	Φ	NO.-Size mm	
50	60.3	300	121	206	22	152	4XM16	
2	2.375	2.07	4.763	8.110	0.866	5.984		
65	73.0	300	140	230	22	178	4XM16	
2 1/2	2.875	2.07	5.511	9.055	0.866	7.007		
80	88.9	300	152	242	24	191	4XM16	
3	3.500	2.07	5.984	9.572	0.944	7.519		
100	114.3	300	191	280	24	229	8XM16	
4	4.500	2.07	7.519	11.023	0.944	9.015		
125	141.3	300	216	325	24.5	254	8XM20	
5	5.56	2.07	8.503	12.795	0.964	10		
150	168.3	300	241.5	345	24.5	282	8XM20	
6	6.625	2.07	9.508	13.583	0.964	11.102		
200	219.1	300	298.5	414.3	28	341.4	8XM20	
8	8.625	2.07	11.751	16.311	1.102	13.44		

Reducing Flexible Coupling



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Bolt Size No.-Size mm	Dimensions mm/in		
				O	L	H
50*40 2 1/4	60.3*48.3 2.375*1.900	300 2.07	2-M10×55	90 3.543	129 5.079	47 1.850
65*40 2 1/2	73.0*48.3 2.874*1.900	300 2.07	2-M10×55	101 3.976	137 5.394	48 1.890
65*50 2 1/2	73.0*60.3 2.874*2.375	300 2.07	2-M10×55	105 4.134	137 5.394	48 1.890
65*40 2 1/4	76.1*48.3 2.996*1.900	300 2.07	2-M10×55	105 4.134	140 5.512	48 1.890
65*50 2 1/2	76.1*60.3 2.996*2.375	300 2.07	2-M10×55	120 4.724	140 5.512	48 1.890
80*40 3 1/4	88.9*48.3 3.500*1.900	300 2.07	2-M12×65	120 4.724	164 6.457	48 1.890
80*50 3 1/2	88.9*60.3 3.500*2.375	300 2.07	2-M12×65	120 4.724	164 6.457	48 1.890
80*65 3 1/2	88.9*73.0 3.500*2.874	300 2.07	2-M12×65	120 4.724	164 6.457	48 1.890
80*65 3 1/2	88.9*76.1 3.500*2.996	300 2.07	2-M12×65	150 5.906	164 6.457	48 1.890

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Bolt Size No.-Size mm	Dimensions mm/in		
				O	L	H
100*40 4 1/4	114.3*48.3 4.500*1.900	300 2.07	2-M12×65	150 5.906	195 7.677	49 1.929
100*50 4 1/2	114.3*60.3 4.500*2.375	300 2.07	2-M12×65	150 5.906	195 7.677	49 1.929
100*65 4 1/2	114.3*73.0 4.500*2.874	300 2.07	2-M12×65	150 5.906	195 7.677	49 1.929
100*65 4 1/2	114.3*76.1 4.500*2.996	300 2.07	2-M12×65	150 5.906	195 7.677	49 1.929
100*80 4 3/4	114.3*88.9 4.500*3.500	300 2.07	2-M12×65	150 5.906	195 7.677	49 1.929
150*100 6 1/4	165.1*114.3 6.500*4.500	300 2.07	2-M12×75	203 7.992	235 9.525	50 1.969
150*80 6 3/4	168.3*88.9 6.625*3.500	300 2.07	2-M12×75	203 7.992	235 9.525	50 1.969
150*100 6 3/4	168.3*114.3 6.625*4.500	300 2.07	2-M12×75	203 7.992	235 9.525	50 1.969
200*150 8 1/4	219.1*168.3 8.625*6.625	300 2.07	2-M16×100	264 10.394	313 12.323	50 1.969

Concentric Reducer (Grooved)



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
50x25 2x1	60.3x33.7 2.375x1.327	300 2.07	60 2.362
50x32 2x1 1/4	60.3x42.4 2.375x1.669	300 2.07	64 2.62
50x40 2x1 1/2	60.3x48.3 2.375x1.902	300 2.07	64 2.62
65x25 2 1/2x1	73.0x33.7 2.875x1.327	300 2.07	64 2.62
65x32 2 1/2x1 1/4	73.0x42.4 2.875x1.669	300 2.07	64 2.62
65x40 2 1/2x1 1/2	73.0x48.3 2.875x1.902	300 2.07	64 2.62
65x50 2 1/2x2	73.0x60.3 2.875x2.375	300 2.07	64 2.62
65x25 2 1/2x1	76.1x33.7 2.996x1.327	300 2.07	64 2.62
65x32 2 1/2x1 1/4	76.1x42.4 2.996x1.669	300 2.07	64 2.62
65x40 2 1/2x1 1/2	76.1x48.3 2.996x1.902	300 2.07	64 2.62
65x50 2 1/2x2	76.1x60.3 2.996x2.375	300 2.07	64 2.62
80x25 3x1	88.9x33.7 3.5x1.327	300 2.07	64 2.62
80x32 3x1 1/4	88.9x42.4 3.5x1.669	300 2.07	64 2.62
80x40 3x1 1/2	88.9x48.3 3.5x1.902	300 2.07	64 2.62
80x50 3x2	88.9x60.3 3.5x2.374	300 2.07	64 2.52
80x65 3x2 1/2	88.9x76.1 3.5x2.996	300 2.07	64 2.52
100x50 4x2	108x60.3 4.25x2.374	300 2.07	76 2.99
100x65 4x2 1/2	108x76.1 4.25x2.996	300 2.07	76 2.99

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
100x80 4x3	108x88.9 4.25x3.5	300 2.07	76 2.99
100x50 4x2	114.3x60.3 4.5x2.374	300 2.07	76 2.99
100x65 4x2 1/2	114.3x76.1 4.5x2.996	300 2.07	76 2.99
100x80 4x3	114.3x88.9 4.5x3.5	300 2.07	76 2.99
125x25 5x1	133x33.7 5.236x1.327	300 2.07	102 4.02
125x50 5x2	133x60.3 5.236x2.374	300 2.07	102 4.016
125x65 5x2 1/2	133x76.1 5.236x2.996	300 2.07	102 4.016
125x80 5x3	133x88.9 5.236x3.5	300 2.07	102 4.016
125x100 5x4	133x108 5.236x4.252	300 2.07	102 4.016
125x100 5x4	133x114.3 5.236x4.5	300 2.07	102 4.016
125x50 5x2	139.7x60.3 5.5x2.374	300 2.07	102 4.016
125x65 5x2 1/2	139.7x76.1 5.5x2.996	300 2.07	102 4.016
125x80 5x3	139.7x88.9 5.5x3.5	300 2.07	102 4.016
125x100 5x4	139.7x108 5.5x4.252	300 2.07	102 4.016
125x100 5x4	139.7x114.3 5.5x4.5	300 2.07	102 4.016
125x50 5x2	141.3x60.3 5.562x2.374	300 2.07	102 4.016
125x65 5x2 1/2	141.3x76.1 5.562x2.996	300 2.07	102 4.016

Concentric Reducer (Grooved)



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in	Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
125x100	141.3x108	300	102	150x100	168.3x108	300	102
5x4	5.56x4.252	2.07	4.016	6x4	6.614x4.252	2.07	4.016
125x100	141.3x114.3	300	102	150x100	168.3x114.3	300	102
5x4	5.56x4.5	2.07	4.016	6x4	6.614x4.5	2.07	4.016
150x50	159x60.3	300	102	150x125	168.3x133	300	102
6x2	6.26x2.374	2.07	4.016	6x5	6.614x5.236	2.07	4.016
150x65	159x76.1	300	102	150x125	168.3x139.7	300	102
6x2 1/2	6.26x2.996	2.07	4.016	6x5	6.614x5.5	2.07	4.016
150x80	159x88.9	300	102	200x50	219.1x60.3	300	127
6x3	6.26x3.5	2.07	4.016	8x2	8.626x2.374	2.07	5
150x100	159x108	300	102	200x65	219.1x76.1	300	127
6x4	6.26x4.252	2.07	4.02	8x2 1/2	8.626x2.996	2.07	5
150x100	159x114.3	300	102	200x80	219.1x88.9	300	127
6x4	6.26x4.5	2.07	4.02	8x3	8.626x3.5	2.07	5
150x125	159x133	300	102	200x100	219.1x108	300	127
6x5	6.26x5.236	2.07	4.02	8x4	8.626x4.252	2.07	5
150x125	159x139.7	300	102	200x100	219.1x114.3	300	127
6x5	6.26x5.5	2.07	4.02	8x4	8.626x4.5	2.07	5
150x50	165.1x60.3	300	102	200x125	219.1x133	300	127
6x2	6.5x2.374	2.07	4.016	8x5	8.626x5.236	2.07	5
150x65	165.1x76.1	300	102	200x125	219.1x139.7	300	127
6x2 1/2	6.5x2.996	2.07	4.016	8x5	8.626x5.5	2.07	5
150x80	165.1x88.9	300	102	200x150	219.1x159	300	127
6x3	6.5x3.5	2.07	4.016	8x6	8.626x6.26	2.07	5
150x100	165.1x108	300	102	200x150	219.1x165.1	300	127
6x4	6.5x4.252	2.07	4.016	8x6	8.626x6.5	2.07	5
150x100	165.1x114.3	300	102	200x150	219.1x168.3	300	127
6x4	6.5x4.5	2.07	4.016	8x6	8.626x6.626	2.07	5
150x125	165.1x133	300	102	250x100	273x114.3	300	135
6x5	6.5x5.236	2.07	4.016	10x4	10.748x4.5	2.07	5.315
150x125	165.1x139.7	300	102	250x125	273x139.7	300	135
6x5	6.5x5.5	2.07	4.016	10x5	10.748x5.5	2.07	5.315
150x50	168.3x60.3	300	102	250x150	273x165.1	300	135
6x2	6.614x2.374	2.07	4.016	10x6	10.748x6.5	2.07	5.315
150x65	168.3x76.1	300	102	250x150	273x168.3	300	135
6x2 1/2	6.614x2.996	2.07	4.016	10x6	10.748x6.626	2.07	5.315
150x80	168.3x88.9	300	102	250x200	273x219.1	300	135
6x3	6.614x3.5	2.07	4.016	10x8	10.748x8.626	2.07	5.315

Concentric Reducer (Threaded)



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in	Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
50x25	60.3x33.7	300	64	100x65	108x76.1	300	76
2x1	2.375x1.327	2.07	2.62	4x2 1/2	4.252x2.996	2.07	2.992
50x32	60.3x42.4	300	64	100x80	108x88.9	300	76
2x1 1/2	2.375x1.669	2.07	2.62	4x3	4.252x3.5	2.07	2.992
50x40	60.3x48.3	300	64	100x25	114.3x33.7	300	76
2x1 1/2	2.375x1.902	2.07	2.62	4x1	4.5x1.327	2.07	2.992
65x25	73.0x33.7	300	64	100x32	114.3x42.4	300	76
2 1/2x1	2.875x1.327	2.07	2.62	4x1 1/4	4.5x1.669	2.07	2.992
65x32	73.0x42.4	300	64	100x40	114.3x48.3	300	76
2 1/2x1 1/4	2.875x1.669	2.07	2.62	4x1 1/2	4.5x1.902	2.07	2.992
65x40	73.0x48.3	300	64	100x50	114.3x60.3	300	76
2 1/2x1 1/2	2.875x1.902	2.07	2.62	4x2	4.5x2.375	2.07	2.992
65x50	73.0x60.3	300	64	100x65	144.3x76.1	300	76
2 1/2x2	2.875x2.375	2.07	2.62	4x2 1/2	4.5x2.996	2.07	2.992
65x25	76.1x33.7	300	64	100x80	114.3x88.9	300	76
2 1/2x1	2.996x1.327	2.07	2.62	4x3	4.5x3.5	2.07	2.992
65x32	76.1x42.4	300	64	125x25	133x33.7	300	102
2 1/2x1 1/4	2.996x1.669	2.07	2.62	5x1	5.236x1.327	2.07	4.016
65x40	76.1x48.3	300	64	125x32	133x42.4	300	102
2 1/2x1 1/2	2.996x1.902	2.07	2.62	5x1 1/4	5.236x1.669	2.07	4.016
65x50	76.1x60.3	300	64	125x40	133x48.3	300	102
2 1/2x2	2.996x2.375	2.07	2.62	5x1 1/2	5.236x1.902	2.07	4.016
80x25	88.9x33.7	300	64	125x50	133x60.3	300	102
3x1	3.5x1.327	2.07	2.62	5x2	5.236x2.375	2.07	4.016
80x32	88.9x42.4	300	64	125x65	133x76.1	300	102
3x1 1/4	3.5x1.669	2.07	2.62	5x2 1/2	5.236x2.996	2.07	4.016
80x40	88.9x48.3	300	64	125x80	133x88.9	300	102
3x1 1/2	3.5x1.902	2.07	2.62	5x3	5.236x3.5	2.07	4.016
80x50	88.9x60.3	300	64	125x100	133x108	300	102
3x2	3.5x2.375	2.07	2.62	5x4	5.236x4.252	2.07	4.016
80x65	88.9x76.1	300	64	125x100	133x114.3	300	102
3x2 1/2	3.5x2.996	2.07	2.62	5x4	5.236x4.5	2.07	4.016
100x25	108x33.7	300	76	125x25	139.7x33.7	300	102
4x1	4.252x1.327	2.07	2.992	5x1	5.5x1.327	2.07	4.016
100x32	108x42.4	300	76	125x32	139.7x42.4	300	102
4x1 1/4	4.252x1.669	2.07	2.992	5x1 1/4	5.5x1.669	2.07	4.016
100x40	108x48.3	300	76	125x40	139.7x48.3	300	102
4x1 1/2	4.252x1.902	2.07	2.992	5x1 1/2	5.5x1.902	2.07	4.016
100x50	108x60.3	300	76	125x50	139.7x60.3	300	102
4x2	4.252x2.375	2.07	2.992	5x2	5.5x2.375	2.07	4.016

Concentric Reducer (Threaded)



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
125x65	139.7x76.1	300	102
5x2 1/2	5.5x2.996	2.07	4.016
125x80	139.7x88.9	300	102
5x3	5.5x3.5	2.07	4.016
125x100	139.7x108	300	102
5x4	5.5x4.5	2.07	4.016
125x100	139.7x114.3	300	102
5x4	5.5x4.5	2.07	4.016
125x25	141.3x33.7	300	102
5x1	5.56x1.327	2.07	4.016
125x32	141.3x42.4	300	102
5x1 1/4	5.56x1.669	2.07	4.016
125x40	141.3x48.3	300	102
5x1 1/2	5.56x1.902	2.07	4.016
125x50	141.3x60.3	300	102
5x2	5.56x2.375	2.07	4.016
125x65	141.3x76.1	300	102
5x2 1/2	5.56x2.996	2.07	4.016
125x80	141.3x88.9	300	102
5x3	5.56x3.5	2.07	4.016
125x100	141.3x108	300	102
5x4	5.56x4.5	2.07	4.016
125x100	141.3x114.3	300	102
5x4	5.56x4.5	2.07	4.016
150x25	159x33.7	300	102
6x1	6.26x1.327	2.07	4.016
150x32	159x42.4	300	102
6x1 1/4	6.26x1.669	2.07	4.016
150x40	159x48.3	300	102
6x1 1/2	6.26x1.902	2.07	4.016
150x50	159x60.3	300	102
6x2	6.26x2.375	2.07	4.016
150x65	159x76.1	300	102
6x2 1/2	6.26x2.996	2.07	4.016
150x80	159x88.9	300	102
6x3	6.26x3.5	2.07	4.016
150x100	159x114.3	300	102
6x4	6.26x4.5	2.07	4.016
150x25	165.1x33.7	300	102
6x1	6.5x1.327	2.07	4.016

Eccentric Reducer (Grooved)



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
100x65	108x76.1	300	102
4x2 1/2	4.252x2.996	2.07	4.331
100x80	108x88.9	300	102
4x3	4.252x3.50	2.07	4.331
100x65	114.3x76.1	300	102
4x2 1/2	4.50x2.996	2.07	4.331
100x80	114.3x88.9	300	102
4x3	4.50x3.50	2.07	4.331
125x80	139.7x88.9	300	102
5x3	5.50x3.50	2.07	4.331
125x100	139.7x114.3	300	102
5x4	5.50x4.50	2.07	4.331
150x65	159x76.1	300	102
6x2 1/2	6.260x2.996	2.07	4.331
150x80	159x88.9	300	102
6x3	6.260x3.50	2.07	4.331
150x100	159x108	300	102
6x4	6.260x4.252	2.07	4.331
150x100	159x114.3	300	102
6x4	6.260x4.50	2.07	4.331
150x125	159x139.7	300	102
6x5	6.260x5.50	2.07	4.331
150x65	165.1x76.1	300	102
6x2 1/2	6.50x2.996	2.07	4.331
150x80	165.1x88.9	300	102
6x3	6.50x3.50	2.07	4.331
150x100	165.1x114.3	300	102
6x4	6.50x4.50	2.07	4.331
150x125	165.1x139.7	300	102
6x5	6.50x5.50	2.07	4.331
200x80	219.1x88.9	300	130
8x3	8.626x3.50	2.07	5.118
200x100	219.1x114.3	300	130
8x4	8.626x4.50	2.07	5.118
200x125	219.1x139.7	300	130
8x5	8.626x5.50	2.07	5.118
200x150	219.1x159	300	130
8x6	8.626x6.260	2.07	5.118
200x150	219.1x165.1	300	130
8x6	8.626x6.50	2.07	5.118
200x150	219.1x168.3	300	130
5x6	8.626x6.626	2.07	5.118
250x150	273x159	300	152
10x6	10.748x6.260	2.07	5.984

Cap

According to different situations, the appearance can be dealt with epoxy powder, galvanized, paint, dacromet or your requirements.



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
25 1	33.7 1.327	300 2.07	24 0.945
32 1 1/4	42.4 1.669	300 2.07	24 0.945
40 1 1/2	48.3 1.900	300 2.07	24 0.945
50 2	60.3 2.375	300 2.07	26 1.024
65 2 1/2	73.0 2.875	300 2.07	28 1.102
65 2 1/2	76.1 3	300 2.07	28 1.102
80 3	88.9 3.5	300 2.07	28 1.102
100 4	108 4.252	300 2.07	28 1.102
100 4	114.3 4.5	300 2.07	28 1.102
125 5	133 5.25	300 2.07	28 1.102
125 5	139.7 5.5	300 2.07	28 1.102
125 5	141.3 5.56	300 2.07	28 1.102
150 6	159 6.25	300 2.07	28 1.102
150 6	165.1 6.5	300 2.07	28 1.102
150 6	168.3 6.625	300 2.07	28 1.102
200 8	219.1 8.625	300 2.07	36 1.417
250 10	273 10.75	300 2.07	36 1.417

Shouldered Coupling



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Bolt Size	Dimensions mm/in		
			No.-Size mm	O	L	H
50 2	60.3 2.375	500 3.5	2-M12×60	97 3.957	132 5.197	48 1.89
80 3	88.9 3.500	500 3.5	2-M12×75	125 4.921	170 6.692	48 1.89
100 4	114.3 4.500	500 3.5	2-M12×75	157 6.181	205 8.070	52 2.047
150 6	165.1 6.500	500 3.5	2-M16×85	213 8.386	270 10.708	52 2.047
200 8	219.1 8.625	500 3.5	2-M20×100	278 10.945	345 13.583	60 2.362
250 10	273 10.748	500 3.5	2-M22×130	340 13.38	415 16.339	64 2.52
300 12	323.9 12.752	500 3.5	2-M22×130	387 15.236	474 18.661	64 2.52
350 14	377 14.843	500 3.5	2-M22×130	438 17.244	518 20.394	76 2.992
400 16	425.5 16.752	500 3.5	2-M30×140	506 19.921	605 23.819	76 2.992

Cap with Eccentric Hole



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
65x25 2 1/2x1	76.1x33.7 3.000x1.315	300 2.07	25 0.99
65x40 2 1/2x1 1/2	76.1x48.3 3.000x1.900	300 2.07	25 0.99
80x25 3x1	88.9x33.7 3.500x1.315	300 2.07	25 0.99
80x40 3x1 1/2	88.9x48.3 3.500x1.900	300 2.07	25 0.99
80x50 3x2	88.9x60.3 3.500x2.375	300 2.07	25 0.99
100x25 4x1	114.3x33.7 4.500x1.315	300 2.07	27 1.063
100x40 4x1 1/2	114.3x48.3 4.500x1.900	300 2.07	27 1.063
100x50 4x2	114.3x60.3 4.500x2.375	300 2.07	27 1.063
125x40 5x1 1/2	139.7x60.3 5.500x1.900	300 2.07	27 1.063
125x50 5x2	139.7x60.3 5.500x2.375	300 2.07	27 1.063
150x40 6x1 1/2	165.1x48.3 6.500x1.900	300 2.07	27 1.063
150x40 6x1 1/2	168.3x48.3 6.625x1.900	300 2.07	27 1.063
150x50 6x2	168.3x60.3 6.625x2.375	300 2.07	27 1.063
200x40 8x1 1/2	219.1x48.3 8.625x1.900	300 2.07	31 1.22
200x50 8x2	219.1x60.3 8.625x2.375	300 2.07	31 1.22

Roll Groove Dimension Standard



Nominal pipe Diameter	Pipe outer diameter			The size from pipe end to groove edge A±0.76	Groove width B±0.76	Groove diameter C		Groove depth D	Minimum thickness of the pipe wall T	Outer diameter of the maximum extension surface
	Actual Size	Tolerance				Actual Size	Tolerance			
25	33.7	+0.41	-0.68	15.88	7.14	30.23	-0.38	1.60	1.8	34.5
32	42.4	+0.50	-0.60	15.88	7.14	38.99	-0.38	1.60	1.8	43.3
40	48.3	+0.44	-0.52	15.88	7.14	45.09	-0.38	1.60	1.8	49.4
50	60.3	+0.61	-0.61	15.88	8.74	57.15	-0.38	1.60	1.8	62.2
65	73.0	+0.74	-0.74	15.88	8.74	69.09	-0.46	1.98	2.3	75.2
65	76.1	+0.76	-0.76	15.88	8.74	72.26	-0.46	1.98	2.3	77.7
80	88.9	+0.89	-0.79	15.88	8.74	84.94	-0.46	1.98	2.3	90.6
90	101.6	+1.02	-0.79	15.88	8.74	97.38	-0.51	2.11	2.3	103.4
100	108.0	+1.07	-0.79	15.88	8.74	103.73	-0.51	2.11	2.3	109.7
100	114.3	+1.14	-0.79	15.88	8.74	110.08	-0.51	2.11	2.3	116.2
125	133.0	+1.32	-0.79	15.88	8.74	129.13	-0.51	2.11	2.9	134.9
125	139.7	+1.40	-0.79	15.88	8.74	135.48	-0.51	2.11	2.9	141.7
125	141.3	+1.42	-0.79	15.88	8.74	137.03	-0.56	2.13	2.9	143.5
150	159.0	+1.60	-0.79	15.88	8.74	154.50	-0.56	2.16	2.9	161.0
150	165.1	+1.60	-0.79	15.88	8.74	160.90	-0.56	2.16	2.9	167.1
150	168.3	+1.60	-0.79	15.88	8.74	163.96	-0.56	2.16	2.9	170.7
200	219.1	+1.60	-0.79	19.05	11.91	214.40	-0.64	2.34	2.9	221.5
250	273.0	+1.60	-0.79	19.05	11.91	268.28	-0.69	2.39	3.6	275.4
300	323.9	+1.60	-0.79	19.05	11.91	318.29	-0.76	2.77	4.0	326.2