



KINGER INDUSTRY INC.

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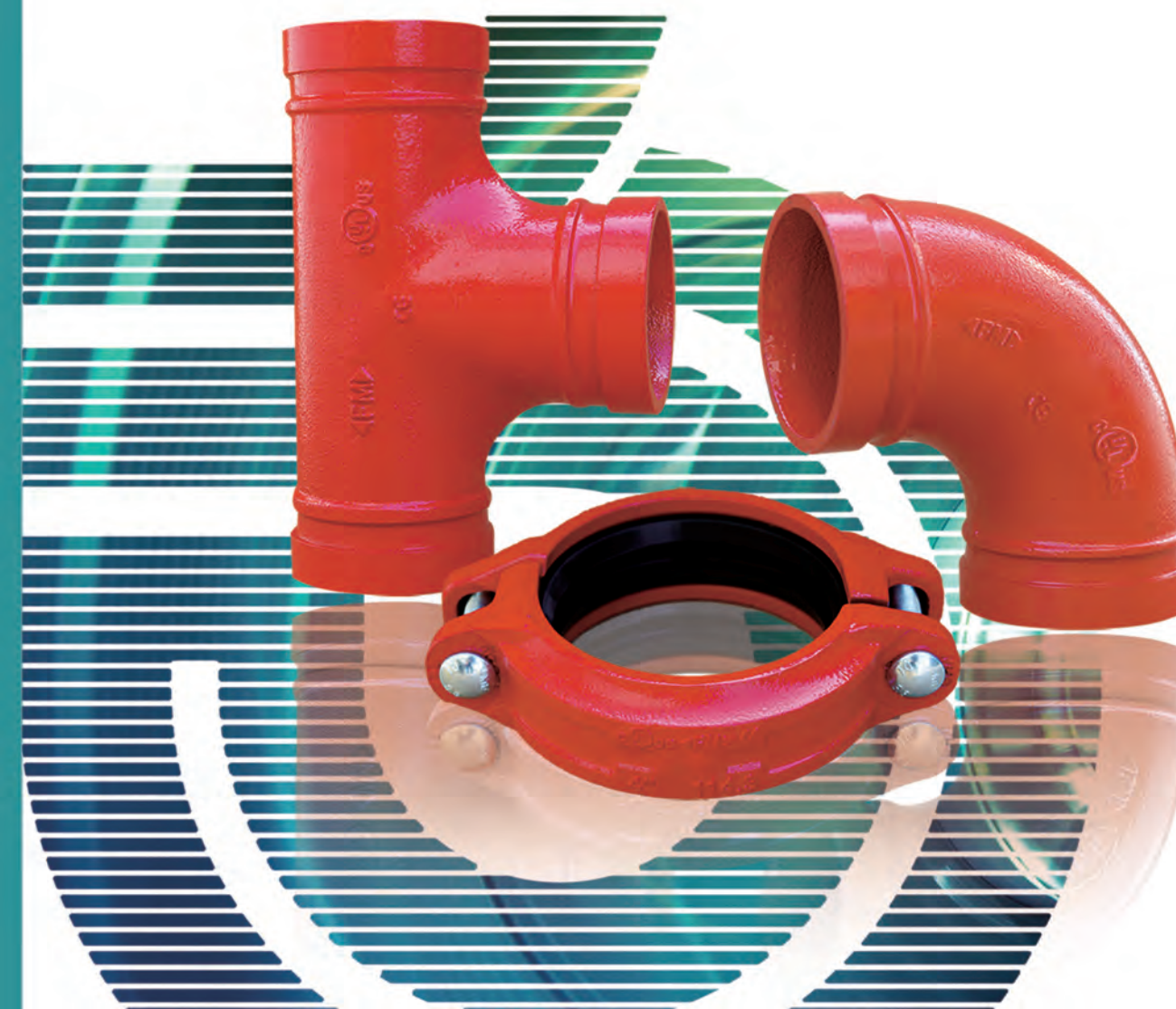
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www.kingerusa.com



GROOVED COUPLINGS AND FITTINGS

KINGER INDUSTRY INC.



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



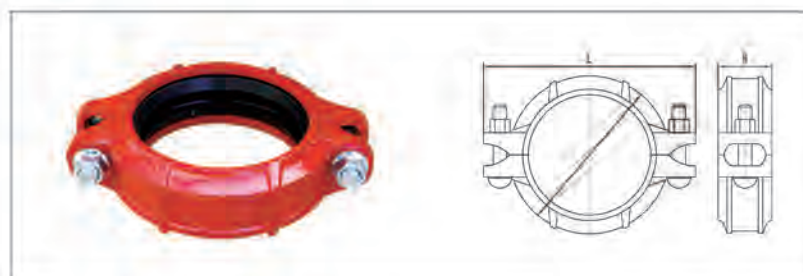
Gasket Ring



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 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		66	107	44
1 1/4	1.669	2.07	2-M10*45	2.598	4.213	1.732
40	48.3	300		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		102.2	140	46
2 1/2	2.875	2.07	2-M10*55	4.024	5.512	1.772
65	76.1	300		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		138.8	184	48
4	4.25	2.07	2-M12*65	5.466	7.244	1.889
100	114.3	300		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		171.2	220	48
5	5.5	2.07	2-M12*75	6.740	8.661	1.889
125	141.3	300		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		196.2	244	48
6	6.5	2.07	2-M12*75	7.724	9.606	2.008
150	168.3	300		199.4	246	48
6	6.625	2.07		7.850	9.685	2.008
200	219.1	232	2-M16*85	256.4	326	58
8	8.625	1.6		10.024	12.835	2.283
250	273	232		316	426	64
10	10.748	1.6	2-M20*100	12.441	16.771	2.520
300	323.9	232		380	470	65
12	12.75	1.6		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.

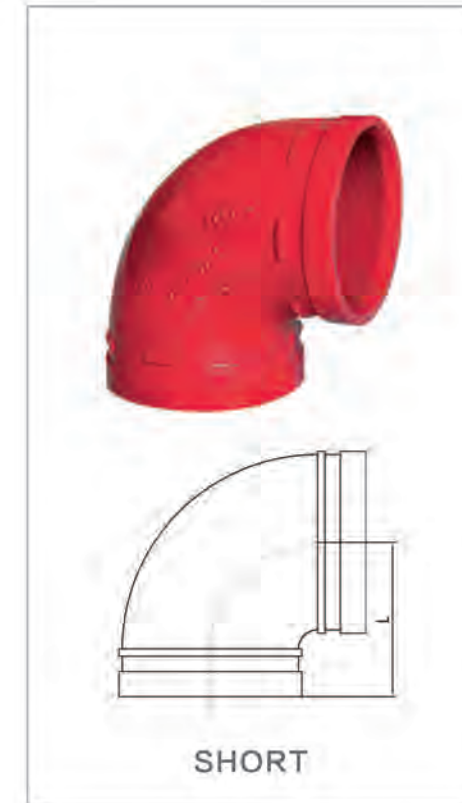
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Bolt Size No. -Size mm	Dimensions mm/in		
				Φ	L	H
25	33.7	300	2-M10*45	55.6	98	44
1	1.327	2.07		2.188	3.858	1.732
32	42.4	300		66	107	44
1 1/4	1.669	2.07	2-M10*45	2.598	4.213	1.732
40	48.3	300		74	115	44
1 1/2	1.9	2.07		2.913	4.527	1.732
50	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		102.2	140	46
2 1/2	2.875	2.07	2-M10*55	4.024	5.512	1.772
65	76.1	300		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		138.8	184	48
4	4.25	2.07	2-M12*65	5.466	7.244	1.889
100	114.3	300		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		171.2	220	48
5	5.5	2.07	2-M12*75	6.740	8.661	1.889
125	141.3	300		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		196.2	244	48
6	6.5	2.07	2-M12*75	7.724	9.606	2.008
150	168.3	300		199.4	246	48
6	6.625	2.07		7.850	9.685	2.008
200	219.1	232	2-M16*85	256.4	326	58
8	8.625	1.6		10.024	12.835	2.283
250	273	232		316	426	64
10	10.748	1.6	2-M20*100	12.441	16.771	2.520
300	323.9	232		380	470	65
12	12.75	1.6		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		66	107	44
1 1/4	1.669	2.07	2-M10*45	2.598	4.213	1.732
40	48.3	300		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		102.2	140	46
2 1/2	2.875	2.07	2-M10*55	4.024	5.512	1.772
65	76.1	300		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		138.8	184	48
4	4.25	2.07	2-M12*65	5.466	7.244	1.889
100	114.3	300		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		171.2	220	48
5	5.5	2.07	2-M12*75	6.740	8.661	1.889
125	141.3	300		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		196.2	244	48
6	6.5	2.07	2-M12*75	7.724	9.606	2.008
150	168.3	300		199.4	246	48
6	6.625	2.07		7.850	9.685	2.008
200	219.1	232	2-M16*85	256.4	326	58
8	8.625	1.6		10.024	12.835	2.283
250	273	232		316	426	64
10	10.748	1.6	2-M20*100	12.441	16.771	2.520
300	323.9	232		380	470	65
12	12.75	1.6		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



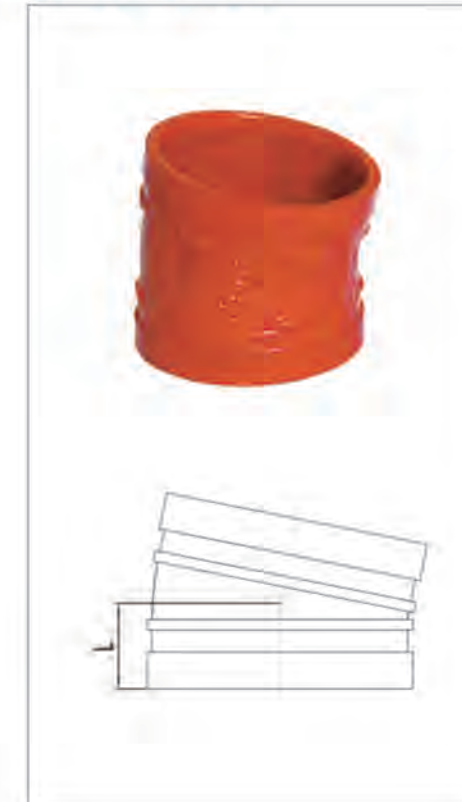
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
25	33.7	300	38
1	1.327	2.07	1.496
32	42.4	300	44
1 1/4	1.669	2.07	1.732
40	48.3	300	44
1 1/2	1.900	2.07	1.732
50	60.3	300	51
2	2.375	2.07	2.008
65	73.0	300	57
2 1/2	2.875	2.07	2.244
65	76.1	300	57
2 1/2	3	2.07	2.244
80	88.9	300	64
3	3.5	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	232	108
8	8.625	1.60	4.252
250	273	232	121
10	10.75	1.60	4.764
300	323.9	232	133
12	12.75	1.60	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	232	98
8	8.625	1.60	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	232	51
8	8.625	1.60	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	232	175	197
8	8.625	1.60	6.890	7.75
250	273	232	215	229
10	10.75	1.60	8.466	9.00
300	323.9	232	230	254
12	12.75	1.60	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	232	175
8	8.625	1.60	6.890
250	273	232	215
10	10.75	1.60	8.466
300	323.9	232	230
12	12.75	1.60	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 2.073	102 4.016
100x32 4x1 1x4	114.3x42.4 4.5x1.669	300 2.073	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	232 1.6	175 6.89
200x80 8x4	219.1x108 8.622x4.252	232 1.6	175 6.89
200x100 8x4	219.1x114.3 8.622x4.5	232 1.6	175 6.89
200x125 8x6	219.1x133 8.622x5.236	232 1.6	175 6.89
200x125 8x6	219.1x139.7 8.622x5.5	232 1.6	175 6.89
200x150 8x6	219.1x159 8.622x6.26	232 1.6	175 6.89
200x150 8x6	219.1x165.1 8.622x6.626	232 1.6	175 6.89
200x125 8x6	219.1x168.3 8.622x6.5	232 1.6	176 6.89
250x80 10x3	273x88.9 10.748x3.5	232 1.6	215 6.465
250x100 10x4	273x114.3 10.748x4.5	232 1.6	215 6.465
250x125 10x6	273x133 10.748x5.236	232 1.6	215 6.465
250x125 10x6	273x139.7 10.748x5.5	232 1.6	215 8.465
250x150 10x6	273x159 10.748x6.26	232 1.6	215 8.465
250x150 10x6	273x165.1 10.748x6.5	232 1.6	215 6.465
250x150 10x6	273x168.3 10.748x6.626	232 1.6	215 8.465
250x200 10x8	273x219.1 10.748x8.626	232 1.6	215 8.465
300x100 12x4	323.9x114.3 12.75x4.5	232 1.6	230 9.055
300x125 12x6	323.9x139.7 12.75x5.5	232 1.6	230 9.055
300x125 12x6	323.9x141.3 12.75x5.56	232 1.6	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
6x3	6.626x3.5	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	232	175
8x3	8.622x3.5	1.6	6.89
200x100	219.1x114.3	232	175
8x4	8.622x4.5	1.6	6.89
200x125	219.1x168.3	323	176
8x6	8.622x6.5	1.6	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	2.073	4.016
100x32	114.3x42.4	300	102
4x1 1/4	4.5x1.669	2.073	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	2.073	4.016
100x50	114.3x60.3	300	102
4x2	4.5x2.375	2.073	4.016
100x65	114.3x76.1	300	102
4x2 1/2	4.5x2.996	2.073	4.016
100x80	114.3x88.9	300	102
4x3	4.5x3.5	2.073	4.016
125x25	139.7x33.7	300	122
5x1	5.5x1.327	2.073	4.803
125x32	139.7x42.4	300	122
5x1 1/4	5.5x1.669	2.073	4.803
125x40	139.7x48.3	300	122
5x1 1/2	5.5x1.902	2.073	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
150x100	159x114.3	300	140
6x4	6.26x4.5	2.07	5.512
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	165.1x88.9	300	140
6x3	6.5x3.5	2.07	5.512
150x100	165.1x108	300	140
6x4	6.5x4.25	2.07	5.512
150x100	165.1x114.3	300	140
6x4	6.5x4.5	2.07	5.512
150x125	165.1x139.7	300	140
6x5	6.5	2.07	5.512
150x25	168.3x33.7	300	140
6x1	6.626x1.327	2.07	5.512
150x32	168.3x42.4	300	140
6x1 1/4	6.626x1.669	2.07	5.512
150x40	168.3x48.3	300	140
6x1 1/2	6.626x1.902	2.07	5.512
150x50	168.3x60.3	300	140
6x2	6.626x2.375	2.07	5.512
150x65	168.3x76.1	300	140
6x2 1/2	6.626x2.996	2.07	5.512
150x80	168.3x88.9	300	140
6x3	6.626x3.5	2.07	5.512
150x100	168.3x114.3	300	140
6x4	6.626x4.5	2.07	5.512
150x125	168.3x139.7	300	140
6x5	6.626x5.5	2.07	5.512

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
200x50	219x60.3	232	175
8x2	8.622x2.375	1.6	6.89
200x65	219x76.1	232	175
8x2 1/2	8.622x2.996	1.6	6.89
200x80	219x88.9	232	175
8x3	8.622x3.5	1.6	6.89
200x100	219x108	232	175
8x4	8.622x4.252	1.6	6.89
200x100	219x114.3	232	175
8x4	8.622x4.5	1.6	6.89
200x125	219x133	232	175
8x5	8.622x5.236	1.6	6.89
200x125	219x139.7	232	175
8x5	8.622x5.5	1.6	6.89
200x150	219x159	232	175
8x6	8.622x6.26	1.6	6.89
200x150	219x168.3	232	175
8x6	8.622x6.626	1.6	6.89
200x150	219x165.1	232	176
8x6	8.622x6.5	1.6	6.89
250x80	273x88.9	232	215
10x3	10.748x3.5	1.6	8.465
250x100	273x114.3	232	215
10x4	10.748x4.5	1.6	8.465
250x125	273x133	232	215
10x5	10.748x5.236	1.6	8.465
250x125	273x139.7	232	215
10x5	10.748x5.5	1.6	8.465
250x150	273x159	232	215
10x6	10.748x6.26	1.6	8.465
250x150	273x168.3	232	215
10x6	10.748x6.626	1.6	8.465
250x150	273x165.1	232	215
10x6	10.748x6.5	1.6	8.465
250x200	273x219.1	232	215
10x8	10.748x8.626	1.6	8.465

Reducing Cross (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	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
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	3.5x2.374	2.07	3.386
80x65	88.9x76.1	300	86
3x2 1/2	3.5x2.669	2.07	3.386
100x25	108x33.7	300	102
4x1	4.25x1.327	2.07	4.016
100x32	108x42.4	300	102
4x1 1/4	4.25x1.669	2.07	4.016
100x40	108x48.3	300	102
4x1 1/2	4.25x1.902	2.07	4.016

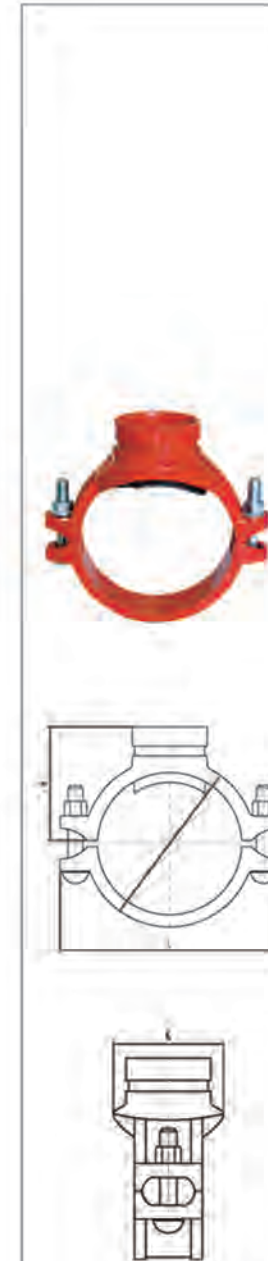
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
100x50	108x60.3	300	102
4x2	4.25x2.375	2.07	4.016
100x65	108x76.1	300	102
4x2 1/2	4.25x2.996	2.07	4.016
100x80	108x88.9	300	102
4x3	4.25x3.5	2.07	4.016
100x25	114.3x33.7	300	102
4x1	4.5x1.327	2.07	4.016
100x32	114.3x42.4	300	102
4x1 1/4	4.5x1.669	2.07	4.016
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
125x25	133x33.7	300	122
5x1	5.236x1.327	2.07	4.803
125x32	133x42.4	300	122
5x1 1/4	5.236x1.669	2.07	4.803
125x40	133x48.3	300	122
5x1 1/2	5.236x1.902	2.07	4.803
125x50	133x60.3	300	122
5x2	5.236x2.374	2.07	4.803
125x65	133x76.1	300	122
5x2 1/2	5.236x2.996	2.07	4.803
125x80	133x88.9	300	122
5x3	5.236x3.5	2.07	4.803

Reducing Cross (Threaded)



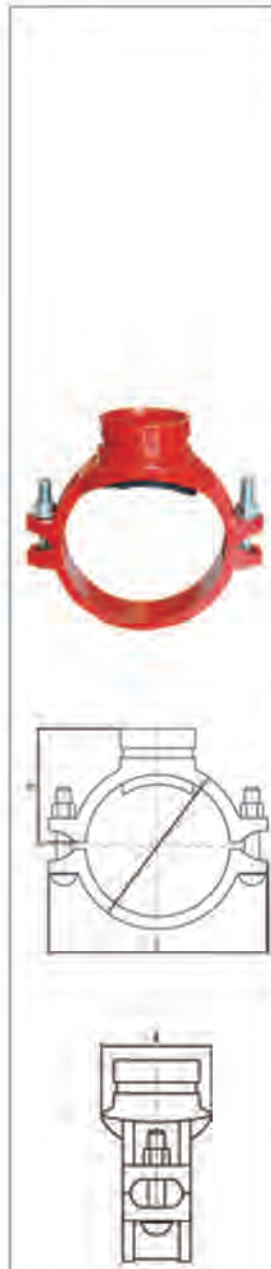
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in	Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
125x25	139.7x33.7	300	122	150x50	165.1x60.3	300	140
5x1	5.5x1.327	2.07	4.803	6x2	6.5x2.374	2.07	5.512
125x32	139.7x42.4	300	122	150x65	165.1x76.1	300	140
5x1 1/4	5.5x1.669	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	232	175
6x3	6.26x3.5	2.07	5.512	8x2	8.622x2.375	1.6	6.890
150x25	165.1x33.7	300	140	200x65	219x76.1	232	175
6x1	6.5x1.327	2.07	5.512	8x2 1/2	8.622x2.996	1.6	6.890
150x32	165.1x42.4	300	140	200x80	219x88.9	232	175
6x1 1/2	6.5x1.669	2.07	5.512	5x3	8.622x3.5	1.6	6.890
150x40	165.1x48.3	300	140	200x100	219x114.3	232	175
6x1 1/2	6.5x1.902	2.07	5.512	8x4	8.622x4.5	1.6	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	2-M12x75	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		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	2-M12x75	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	2-M12x75	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		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	232	2-M16x100	247	304	149.5	72	38
8x1	8.625x1.327	1.60		9.724	11.969	5.886	2.835	1.496
200x32	219.1x42.4	232		247	304	149.5	79	46
8x1 1/4	8.625x1.669	1.60		9.724	11.969	5.886	3.110	1.811
200x40	219.1x48.3	232		247	304	149.5	85	51
8x1 1/2	8.625x1.90	1.60		9.724	11.969	5.886	3.212	2.008
200x50	219.1x60.3	232		247	304	149.5	94	61
8x2	8.625x2.375	1.60		9.724	11.969	5.886	3.701	2.401
200x65	219.1x76.1	232		247	304	149.5	114	81
8x2 1/2	8.625x2.996	1.60		9.724	11.969	5.886	4.488	3.228
200x80	219.1x88.9	232	2-M16x100	247	304	149.5	120	86
8x3	8.625x3.50	1.60		9.724	11.969	5.886	4.724	3.385
200x100	219.1x108	232		247	304	149.5	149	114
8x4	8.625x4.252	1.60		9.724	11.969	5.886	5.866	4.488
200x100	219.1x114.3	232		247	304	149.5	149	114
8x4	8.625x4.50	1.60		9.724	11.969	5.886	5.866	4.488

Mechanical Tee (Threaded)



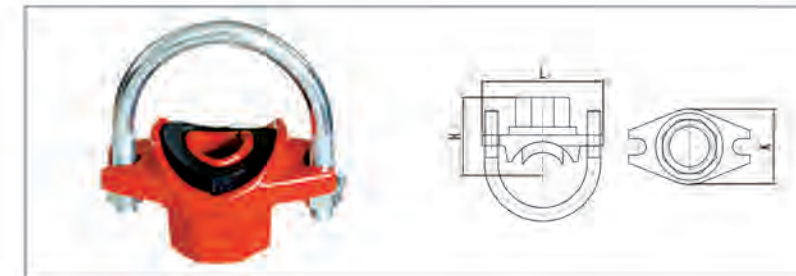
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Bolt Size No.-Size mm	Dimensions mm/in				Hole Dia mm/in +1.6,0/+0.063,0
				Φ	L	K	H	
50x25	60.3x33.7	300	2-M10x60	81	116	55	62	38
2x1	2.375x1.327	2.07		3.189	4.567	2.165	2.441	1.496
50x32	60.3x42.4	300		81	116	55	68	46
2x1 1/4	2.375x1.699	2.07		3.1898	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	2-M10x60	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		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	2-M12x75	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	2-M12x75	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		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	2-M12x75	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	2-M12x75	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		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 mm/in +1.6,0/+0.063,0
				Φ	L	K	H	
125x25 5x1	141.3x33.7 5.56x1.327	300 2.07	2-M12x75	164 6.457	206 8.110	98 3.858	70 2.756	38 1.496
125x32 5x1 1/4	141.3x42.4 5.56x1.669	300 2.07		164 6.457	206 8.110	98 3.858	77 3.031	46 1.811
125x40 5x1 1/2	141.3x48.3 5.56x1.90	300 2.07		164 6.457	206 8.110	98 3.858	83 3.268	51 2.008
125x50 5x2	141.3x60.3 5.56x2.375	300 2.07		164 6.457	206 8.110	98 3.858	92 3.622	61 2.402
125x65 5x2 1/2	141.3x76.1 5.56x2.996	300 2.07		164 6.457	206 8.110	98 3.858	112 4.409	81 3.189
125x80 5x3	141.3x88.9 5.56x3.50	300 2.07		164 6.457	206 8.110	98 3.858	118 4.646	86 3.386
150x25 6x1	159.0x33.7 6.260x1.327	300 2.07		183 7.205	222 8.740	110 4.331	70 2.756	38 1.496
150x32 6x1 1/4	159.0x42.4 6.260x1.669	300 2.07		183 7.205	222 8.740	110 4.331	77 3.031	46 1.811
150x40 6x1 1/2	159.0x48.3 6.260x1.90	300 2.07		183 7.205	222 8.740	110 4.331	83 3.268	51 2.008
150x50 6x2	159.0x60.3 6.260x2.375	300 2.07		183 7.205	222 8.740	110 4.331	92 3.622	61 2.402
150x65 6x2 1/2	159.0x76.1 6.260x2.996	300 2.07		183 7.205	222 8.740	110 4.331	112 4.409	81 3.189
150x80 6x3	159.0x88.9 6.260x3.500	300 2.07		183 7.205	222 8.740	110 4.331	118 4.646	86 3.386
150x25 6x1	165.1x33.7 6.50x1.327	300 2.07		189 7.441	226 8.898	113 4.449	70 2.756	38 1.496
150x32 6x1 1/4	165.1x42.4 6.500x1.669	300 2.07		189 7.441	226 8.898	113 4.449	77 3.031	46 1.811
150x40 6x1 1/2	165.1x48.3 6.50x1.90	300 2.07		189 7.441	226 8.898	113 4.449	83 3.268	51 2.008
150x50 6x2	165.1x60.3 6.50x2.375	300 2.07		189 7.441	226 8.898	113 4.449	92 3.622	61 2.402
150x65 6x2 1/2	165.1x76.1 6.50x2.996	300 2.07		189 7.441	226 8.898	113 4.449	112 4.409	81 3.189
150x80 6x3	165.1x88.9 6.50x3.50	300 2.07		189 7.441	226 8.898	113 4.449	118 4.646	86 3.386
150x100 6x4	165.1x114.3 6.50x4.50	300 2.07		189 7.441	226 8.898	113 4.449	149 5.866	114 4.488
150x25 6x1	168.3x33.7 6.625x1.327	300 2.07		192 7.559	228 8.976	115 4.528	70 2.756	38 1.496
150x32 6x1 1/4	168.3x42.4 6.625x1.669	300 2.07		192 7.559	228 8.976	115 4.528	77 3.031	46 1.811
150x40 6x1 1/2	168.3x48.3 6.625x1.90	300 2.07		192 7.559	228 8.976	115 4.528	83 3.268	51 2.007
150x50 6x2	168.3x60.3 6.625x2.375	300 2.07		192 7.559	228 8.976	115 4.528	92 3.622	61 2.401
150x65 6x2 1/2	168.3x76.1 6.625x2.996	300 2.07		192 7.559	228 8.976	115 4.528	112 4.409	81 3.228
150x80 6x3	168.3x88.9 6.625x3.50	300 2.07		192 7.559	228 8.976	115 4.528	118 4.646	86 3.385
200x25 8x1	219.1x33.7 8.625x1.327	232 1.60	2-M16x100	247 9.724	304 11.969	142 5.591	72 2.835	38 1.811
200x32 8x1 1/4	219.1x42.4 8.625x1.669	232 1.60		247 9.724	304 11.969	142 5.591	79 3.110	46 1.811
200x40 8x1 1/2	219.1x48.3 8.625x1.90	232 1.60		247 9.724	304 11.969	142 5.591	85 3.346	51 2.008
200x50 8x2	219.1x60.3 8.625x2.375	232 1.60		247 9.724	304 11.969	142 5.591	94 3.701	61 2.402
200x65 8x2 1/2	219.1x76.1 8.625x2.996	232 1.60		247 9.724	304 11.969	142 5.591	114 4.488	81 3.189
200x80 8x3	219.1x88.9 8.625x3.50	232 1.60		247 9.724	304 11.969	142 5.591	120 4.724	86 3.386
200x100 8x4	219.1x114.3 8.625x4.50	232 1.60		247 9.724	304 11.969	142 5.591	149 5.866	114 4.488

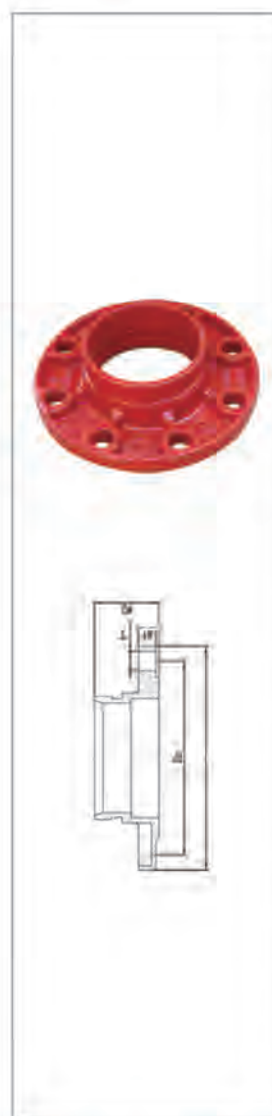
U-Bolt Mechanical Tee(Threaded)



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

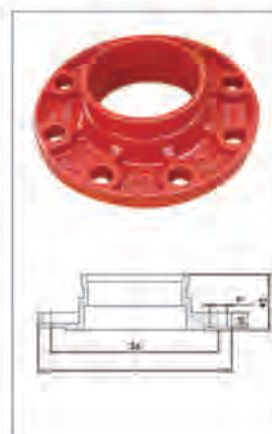
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Bolt Size No.-Size mm	Dimensions mm/in			Hole cutting dimensions mm/in +1.6,0/+0.063,0
				H	L	K	
25x15 1x 1/2	33.7x21.3 1.327x0.839	300 2.07	M8x25	43.5 1.713	74 2.913	44 1.732	26 1.024
25x20 1x3/4	33.7x26.9 1.327x1.059	300 2.07	M8x25	47.5 1.870	74 2.913	44 1.732	26 1.024
32x15 1 1/4x1/2	42.4x21.3 1.669x0.839	300 2.07	M10x28.5	47 1.850	90 3.543	56 2.205	30 1.181
32x20 1 1/4x3/4	42.4x26.9 1.669x1.059	300 2.07	M10x28.5	51 2.008	90 3.543	56 2.205	30 1.181
32x25 1 1/4x1	42.4x33.7 1.669x1.327	300 2.07	M10x28.5	56 2.205	90 3.543	56 2.205	30 1.181
40x15 1 1/2x1/2	48.3x21.3 1.900x0.839	300 2.07	M10x28.5	49 1.929	90 3.543	56 2.205	30 1.181
40x20 1 1/2x3/4	48.3x26.9 1.900x1.059	300 2.07	M10x28.5	53 2.087	90 3.543	56 2.205	30 1.181
40x25 1 1/2x1	48.3x33.7 1.900x1.327	300 2.07	M10x28.5	58 2.283	90 3.543	56 2.205	30 1.181
50x15 2x1/2	60.3x21.3 2.375x0.839	300 2.07	M10x30	56 2.205	100 3.937	56 2.205	30 1.181
50x20 2x3/4	60.3x26.9 2.375x1.059	300 2.07	M10x30	60 2.362	100 3.937	56 2.205	30 1.181
50x25 2x1	60.3x33.7 2.375x1.327	300 2.07	M10x30	65 2.559	100 3.937	56 2.205	30 1.181
65x15 2 1/2x1/2	73.1x21.3 2.878x0.839	300 2.07	M10x30	64 2.520	112 4.409	56 2.205	30 1.181
65x20 2 1/2x3/4	73.1x26.9 2.878x1.059	300 2.07	M10x30	68 2.677	112 4.409	56 2.205	30 1.181
65x25 2 1/2x1	73.1x33.7 2.878x1.327	300 2.07	M10x30	73 2.874	112 4.409	56 2.205	30 1.181
65x15 2 1/2x1/2	76.1x21.3 2.996x0.839	300 2.07	M10x30	61 2.402	110 4.331	59 2.323	30 1.181
65x20 2 1/2x3/4	76.1x26.9 2.996x1.059	300 2.07	M10x30	67 2.638	110 4.331	59 2.323	30 1.181
65x25 2 1/2x1	76.1x33.7 2.996x1.327	300 2.07	M10x30	74 2.913	110 4.331	59 2.323	30 1.181

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 2	60.3 2.374	232 1.60	125 4.921	16 0.630	60 2.362	160 6.299	4xM16
65 2 1/2	73.0 2.875	232 1.60	145 5.709	16 0.630	60 2.362	180 7.087	4xM16
65 2 1/2	76.1 3	232 1.60	145 5.709	16 0.630	60 2.362	180 7.087	4xM16
80 3	88.9 3.5	232 1.60	160 6.299	17 0.669	60 2.362	195 7.677	8xM16
100 4	108 4.25	232 1.60	180 7.087	17 0.669	60 2.362	215 8.465	8xM16
100 4	114.3 4.5	232 1.60	180 7.087	17 0.669	60 2.362	215 8.465	8xM16
125 5	133 5.25	232 1.60	210 8.268	19 0.748	65 2.559	245 9.646	8xM16
125 5	139.7 5.5	232 1.60	210 8.268	19 0.748	65 2.559	245 9.646	8xM16
125 5	141.3 5.56	232 1.60	210 8.268	19 0.748	65 2.559	245 9.646	8xM16
150 6	159 6.25	232 1.60	240 9.449	20 0.787	65 2.559	280 11.024	8xM20
150 6	165.1 6.5	232 1.60	240 9.449	20 0.787	65 2.559	280 11.024	8xM20
150 6	168.3 6.625	232 1.60	240 9.449	20 0.787	65 2.559	280 11.024	8xM20
200 8	219.1 8.625	232 1.60	295 11.614	20 0.787	75 2.952	330 12.992	12xM20
250 10	273 10.748	232 1.60	295 11.614	25 0.984	85 3.346	400 15.748	12xM20
300 12	323.9 12.752	232 1.60	410 16.142	25 0.987	90 3.543	460 18.110	12xM24

Adaptor Flange PN25



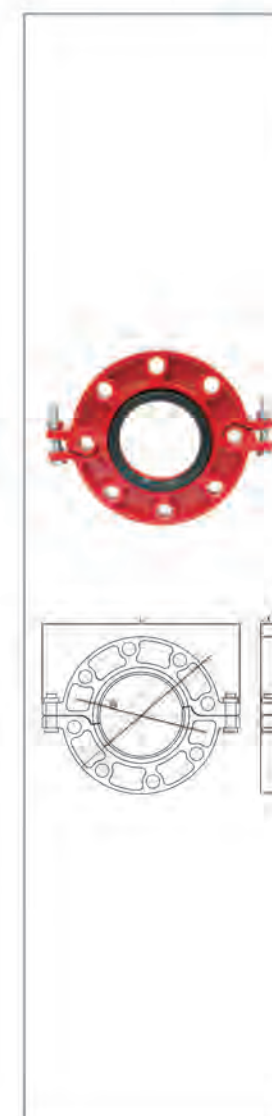
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Dimensions mm/in				Bolt/Nut NO.-Size mm
			Do	H1	H2	Φ	
100 108.0	108.0 4.250	362 2.5	190 7.48	18 0.71	70 2.756	230 9.05	8XM20
100 4	114.3 4.500	362 2.5	190 7.48	16 0.63	70 2.756	235 9.25	8XM20
150 159.0	159.0 6.250	362 2.5	250 9.85	20 0.79	70 2.756	300 11.80	8XM20
150 165.1	165.1 6.500	362 2.5	250 9.84	18 0.71	70 2.756	300 11.80	8XM20
200 8	219.1 8.625	362 2.5	310 12.20	19 0.75	80 3.150	360 14.17	8XM20

Flange Adaptor (Threaded)



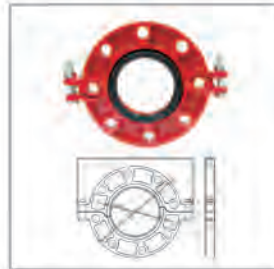
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Dimensions mm/in				Bolt/Nut NO.-Size mm
			Do	H1	H2	Φ	
50 2	60.3 2.374	300 2.07	125 4.921	16 0.630	30 1.181	160 6.299	4xM16
65 2 1/2	76.1 3	300 2.07	145 5.709	16 0.630	30 1.181	180 7.087	4xM16
80 3	88.9 3.5	300 2.07	160 6.299	17 0.669	30 1.181	195 7.677	8xM16
100 4	114.3 4.5	300 2.07	180 7.087	17 0.669	30 1.181	215 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 2	60.3 2.374	232 1.60	125 4.921	220 8.661	22 0.866	160 6.299	4xM16
65 2 1/2	73.0 2.875	232 1.60	145 5.709	225 8.858	22 0.866	180 7.087	4xM16
65 2 1/2	76.1 3	232 1.60	145 5.709	225 8.858	22 0.866	180 7.087	4xM16
80 3	88.9 3.5	232 1.60	160 6.299	253 9.961	22 0.866	195 7.677	8xM16
100 4	108 4.25	232 1.60	180 7.087	262 10.315	22 0.866	215 8.465	8xM16
100 4	114.3 4.5	232 1.60	180 7.087	262 10.315	22 0.866	215 8.465	8xM16
125 5	133 5.25	232 1.60	210 8.268	292 10.315	22 0.866	245 9.646	8xM16
125 5	139.7 5.5	232 1.60	210 8.268	292 10.315	22 0.866	245 9.646	8xM16
125 5	141.3 5.56	232 1.60	210 8.268	292 10.315	22 0.866	245 9.646	8xM16
150 6	159 6.25	232 1.60	240 9.449	340 13.386	22 0.866	280 11.024	8xM20
150 6	165.1 6.5	232 1.60	240 9.449	340 13.386	22 0.866	280 11.024	8xM20
150 6	168.3 6.625	232 1.60	240 9.449	340 13.386	22 0.866	280 11.024	8xM20
200 8	219.1 8.625	232 1.60	295 11.614	408 16.063	25 0.984	330 12.992	12xM20

Grooved Flange PN25



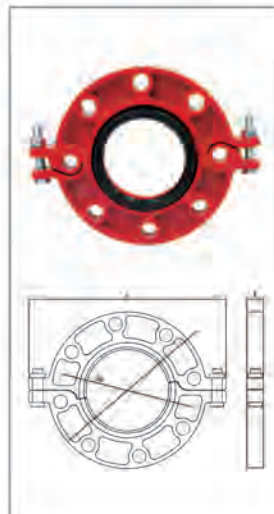
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Dimensions mm/in				Bolt/Nut	
			Do	L	K	Φ	NO.-Size mm	
100	108.0	362	180	280	25.5	220	2-M12X55	8XM16
108.0	4.250	2.5	7.09	11.02	1.00	8.66		
150	165.1	362	240	346	25.5	280	2-M12X65	8XM20
165.1	6.500	2.5	9.45	13.62	1.00	11.00		

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		
2 1/2	2.875	2.07	5.693	0.944	2.37	7.00	4XM16	
80	88.9	300	152.5	24	60.3	190		
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		
6	6.625	2.07	9.507	0.984	2.755	10.98	8XM20	
200	219.1	300	298.5	29	76.1	343		
8	8.625	2.07	11.751	1.141	2.99	13.50	12XM22	
250	273.0	300	362	30	85	406		
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		
2 1/2	2.875	2.07	5.511	9.055	0.866	7.007	4XM16	
80	88.9	300	152	242	24	191		
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		
6	6.625	2.07	9.508	13.583	0.964	11.102	8XM20	
200	219.1	300	298.5	414.3	28	341.4		
8	8.625	2.07	11.751	16.311	1.102	13.44		

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
50x25	60.3x33.7	300	60	100x80	108x88.9	300	76
2x1	2.375x1.327	2.07	2.362	4x3	4.252x3.5	2.07	2.99
50x32	60.3x42.4	300	64	100x50	114.3x60.3	300	76
2x1 1/4	2.375x1.669	2.07	2.62	4x2	1.5x2.374	2.07	2.99
50x40	60.3x48.3	300	64	100x65	114.3x76.1	300	76
2x1 1/2	2.375x1.902	2.07	2.62	4x2 1/2	4.5x2.996	2.07	2.99
65x25	73.0x33.7	300	64	100x80	114.3x88.9	300	76
2 1/2x1	2.875x1.327	2.07	2.62	4x3	1.5x3.5	2.07	2.99
65x32	73.0x42.4	300	64	125x25	133x33.7	300	102
2 1/2x1 1/4	2.875x1.669	2.07	2.62	5x1	5.236x1.327	2.07	4.02
65x40	73.0x48.3	300	64	125x50	133x60.3	300	102
2 1/2x1 1/2	2.875x1.902	2.07	2.62	5x2	5.236x2.374	2.07	4.016
65x50	73.0x60.3	300	64	125x65	133x76.1	300	102
2 1/2x2	2.875x2.375	2.07	2.62	5x2 1/2	5.236x2.996	2.07	4.016
65x25	76.1x33.7	300	64	125x80	133x88.9	300	102
2 1/2x1	2.996x1.327	2.07	2.62	5x3	5.236x3.5	2.07	4.016
65x32	76.1x42.4	300	64	125x100	133x108	300	102
2 1/2x1 1/4	2.996x1.669	2.07	2.62	5x4	5.236x4.252	2.07	4.016
65x40	76.1x48.3	300	64	125x100	133x114.3	300	102
2 1/2x1 1/2	2.996x1.902	2.07	2.62	5x4	5.236x4.5	2.07	4.016
65x50	76.1x60.3	300	64	125x50	139.7x60.3	300	102
2 1/2x2	2.996x2.375	2.07	2.62	5x2	5.5x2.374	2.07	4.016
80x25	88.9x33.7	300	64	125x65	139.7x76.1	300	102
3x1	3.5x1.327	2.07	2.62	5x2 1/2	5.5x2.996	2.07	4.016
80x32	88.9x42.4	300	64	125x80	139.7x88.9	300	102
3x1 1/4	3.5x1.669	2.07	2.62	5x3	5.5x3.5	2.07	4.016
80x40	88.9x48.3	300	64	125x100	139.7x88.9	300	102
3x1 1/2	3.5x1.902	2.07	2.62	5x4	5.5x3.5	2.07	4.016
80x50	88.9x60.3	300	64	125x100	139.7x108	300	102
3x2	3.5x2.374	2.07	2.52	5x4	5.5x4.252	2.07	4.016
80x65	88.9x76.1	300	64	125x100	139.7x114.3	300	102
3x2 1/2	3.5x2.996	2.07	2.52	5x4	5.5x4.5	2.07	4.016
100x50	108x60.3	300	76	125x50	141.3x60.3	300	102
4x2	4.252x2.374	2.07	2.99	5x2	5.56x2.374	2.07	4.016
100x65	108x76.1	300	76	125x65	141.3x76.1	300	102
4x2 1/2	4.252x2.996	2.07	2.99	5x2 1/2	5.56x2.996	2.07	4.016

Concentric Reducer (Grooved)



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
125x100	141.3x108	300	102
5x4	5.56x4.252	2.07	4.016
125x100	141.3x114.3	300	102
5x4	5.56x4.5	2.07	4.016
150x50	159x60.3	300	102
6x2	6.26x2.374	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	159x108	300	102
6x4	6.26x4.252	2.07	4.02
150x100	159x114.3	300	102
6x4	6.26x4.5	2.07	4.02
150x125	159x133	300	102
6x5	6.26x5.236	2.07	4.02
150x125	159x139.7	300	102
6x5	6.26x5.5	2.07	4.02
150x50	165.1x60.3	300	102
6x2	6.5x2.374	2.07	4.016
150x65	165.1x76.1	300	102
6x2 1/2	6.5x2.996	2.07	4.016
150x80	165.1x88.9	300	102
6x3	6.5x3.5	2.07	4.016
150x100	165.1x108	300	102
6x4	6.5x4.252	2.07	4.016
150x100	165.1x114.3	300	102
6x4	6.5x4.5	2.07	4.016
150x125	165.1x133	300	102
6x5	6.5x5.236	2.07	4.016
150x125	165.1x139.7	300	102
6x5	6.5x5.5	2.07	4.016
150x50	168.3x60.3	300	102
6x2	6.614x2.374	2.07	4.016
150x65	168.3x76.1	300	102
6x2 1/2	6.614x2.996	2.07	4.016
150x80	168.3x88.9	300	102
6x3	6.614x3.5	2.07	4.016

Concentric Reducer (Threaded)



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
50x25	60.3x33.7	300	64
2x1	2.375x1.327	2.07	2.62
50x32	60.3x42.4	300	64
2x1 1/2	2.375x1.669	2.07	2.62
50x40	60.3x48.3	300	64
2x1 1/2	2.375x1.902	2.07	2.62
65x25	73.0x33.7	300	64
2 1/2x1	2.875x1.327	2.07	2.62
65x32	73.0x42.4	300	64
2 1/2x1 1/4	2.875x1.669	2.07	2.62
65x40	73.0x48.3	300	64
2 1/2x1 1/2	2.875x1.902	2.07	2.62
65x50	73.0x60.3	300	64
2 1/2x2	2.875x2.375	2.07	2.62
65x25	76.1x33.7	300	64
2 1/2x1	2.996x1.327	2.07	2.62
65x32	76.1x42.4	300	64
2 1/2x1 1/4	2.996x1.669	2.07	2.62
65x40	76.1x48.3	300	64
2 1/2x1 1/2	2.996x1.902	2.07	2.62
65x50	76.1x60.3	300	64
2 1/2x2	2.996x2.375	2.07	2.62
80x25	88.9x33.7	300	64
3x1	3.5x1.327	2.07	2.62
80x32	88.9x42.4	300	64
3x1 1/4	3.5x1.669	2.07	2.62
80x40	88.9x48.3	300	64
3x1 1/2	3.5x1.902	2.07	2.62
80x50	88.9x60.3	300	64
3x2	3.5x2.375	2.07	2.62
80x65	88.9x76.1	300	64
3x2 1/2	3.5x2.996	2.07	2.62
100x25	108x33.7	300	76
4x1	4.252x1.327	2.07	2.992
100x32	108x42.4	300	76
4x1 1/4	4.252x1.669	2.07	2.992
100x40	108x48.3	300	76
4x1 1/2	4.252x1.902	2.07	2.992
100x50	108x60.3	300	76
4x2	4.252x2.375	2.07	2.992

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

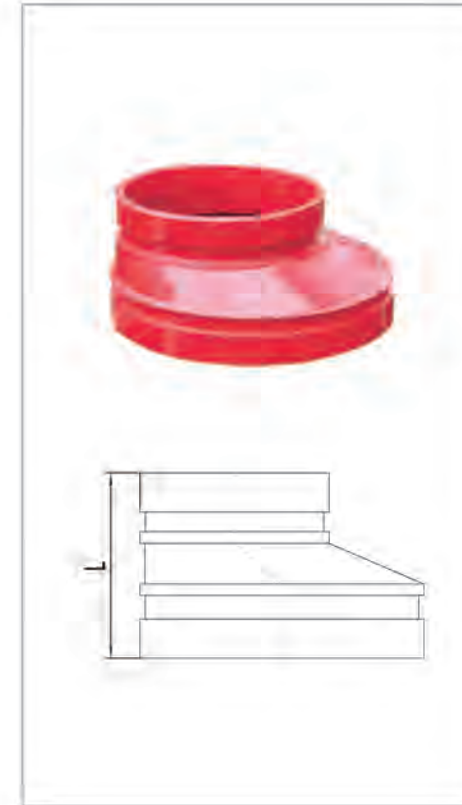
Concentric Reducer (Threaded)



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

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
150x32	165.1x42.4	300	102
6x1 1/4	6.5x1.669	2.07	4.016
150x40	165.1x48.3	300	102
6x1 1/2	6.5x1.902	2.07	4.016
150x50	165.1x60.3	300	102
6x2	6.5x2.375	2.07	4.016
150x65	165.1x76.1	300	102
6x2 1/2	6.5x2.996	2.07	4.016
150x80	165.1x88.9	300	102
6x3	6.5x3.5	2.07	4.016
150x100	165.1x114.3	300	102
6x4	6.5x4.5	2.07	4.016
150x25	168.3x33.7	300	102
6x1	6.614x1.327	2.07	4.016
150x32	168.3x42.4	300	102
6x1 1/4	6.614x1.669	2.07	4.016
150x40	168.3x48.3	300	102
6x1 1/2	6.614x1.902	2.07	4.016
150x50	168.3x60.3	300	102
6x2	6.614x2.375	2.07	4.016
150x65	168.3x76.1	300	102
6x2 1/2	6.614x2.996	2.07	4.016
150x80	168.3x88.9	300	102
6x3	6.614x3.5	2.07	4.016
150x100	168.3x114.3	300	102
6x4	6.614x4.5	2.07	4.016
200x25	219.1x33.7	232	127
8x1	8.625x1.327	1.6	5.000
200x32	219.1x42.4	232	127
8x1 1/4	8.625x1.669	1.6	5.000
200x40	219.1x48.3	232	127
8x1 1/2	8.625x1.902	1.6	5.000
200x50	219.1x60.3	232	127
8x2	8.625x2.375	1.6	5.000
200x65	219.1x76.1	232	127
8x2 1/2	8.625x2.996	1.6	5.000
200x80	219.1x88.9	232	127
8x3	8.625x3.5	1.6	5.000
200x100	219.1x114.3	232	127
8x4	8.625x4.5	1.6	5.000

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	232	130
8x3	8.626x3.50	1.6	5.118
200x100	219.1x114.3	232	130
8x4	8.626x4.50	1.6	5.118
200x125	219.1x139.7	232	130
8x5	8.626x5.50	1.6	5.118
200x150	219.1x159	232	130
8x6	8.626x6.260	1.6	5.118
200x150	219.1x165.1	232	130
8x6	8.626x6.50	1.6	5.118
200x150	219.1x168.3	232	130
5x6	8.626x6.626	1.6	5.118
250x150	273x159	232	152
10x6	10.748x6.260	1.6	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	33.7	300	24
1	1.327	2.07	0.945
32	42.4	300	24
1 1/4	1.669	2.07	0.945
40	48.3	300	24
1 1/2	1.900	2.07	0.945
50	60.3	300	26
2	2.375	2.07	1.024
65	73.0	300	28
2 1/2	2.875	2.07	1.102
65	76.1	300	28
2 1/2	3	2.07	1.102
80	88.9	300	28
3	3.5	2.07	1.102
100	108	300	28
4	4.252	2.07	1.102
100	114.3	300	28
4	4.5	2.07	1.102
125	133	300	28
5	5.25	2.07	1.102
125	139.7	300	28
5	5.5	2.07	1.102
125	141.3	300	28
5	5.56	2.07	1.102
150	159	300	28
6	6.25	2.07	1.102
150	165.1	300	28
6	6.5	2.07	1.102
150	168.3	300	28
6	6.625	2.07	1.102
200	219.1	232	36
8	8.625	1.60	1.417
250	273	232	36
10	10.75	1.60	1.417

Cap with Eccentric Hole



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	L mm/in
65x25	76.1x33.7	300	23.5
2 1/2x1	3.000x1.315	2.07	0.925
65x40	76.1x48.3	300	23.5
2 1/2x1 1/2	3.000x1.900	2.07	0.925
80x25	88.9x33.7	300	23.5
3x1	3.500x1.315	2.07	0.925
80x40	88.9x48.3	300	23.5
3x1 1/2	3.500x1.900	2.07	0.925
80x50	88.9x60.3	300	23.5
3x2	3.500x2.375	2.07	0.925
100x25	114.3x33.7	300	25.4
4x1	4.500x1.315	2.07	1.00
100x40	114.3x48.3	300	25.4
4x1 1/2	4.500x1.900	2.07	1.00
100x50	114.3x60.3	300	25.4
4x2	4.500x2.375	2.07	1.00
125x40	139.7x60.3	300	25.4
5x1 1/2	5.500x1.900	2.07	1.00
125x50	139.7x60.3	300	25.4
5x2	5.500x2.375	2.07	1.00
150x40	165.1x48.3	300	25.4
6x1 1/2	6.500x1.900	2.07	1.00
150x40	168.3x48.3	300	25.4
6x1 1/2	6.625x1.900	2.07	1.00
150x50	168.3x60.3	300	25.4
6x2	6.625x2.375	2.07	1.00
200x40	219.1x48.3	300	30.2
8x1 1/2	8.625x1.900	2.07	1.19
200x50	219.1x60.3	300	30.2
8x2	8.625x2.375	2.07	1.19

Gasket Ring



Name	Temperature Range	General Service Recommendations	Color Mark
EPDM	-34~+150° C (-30~+302° F)	Recommended for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL classified in accordance with ANSI/NSF 61 or cold + 86° F(+30) and hot +180° F (+82° C) potable water service. Not recommended for petroleum service.	Green Strip
Nitrile rubber	-29~+82° C (-20~+180° F)	Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services.	Orange Strip
Silicon rubber	-40~+177° C (-40~+350° F)	Recommended for high temperature dry air and some high temperature chemical products.	White
Notes: 1.Gasket rings of different materials will be used for defferent liquid mediums. 2.Products can be supplied as per customers requirements.			

Bolts and Nuts



Raw material of bolts and nuts are taken as 40 cr or 35# steel, and its mechanical properties should reach Gr.8.8 after hot-treatment. Only one wrench will be used during the installation, safely and firmly.

Bolt dimension	M10	M12	M16	M20	M22
Spanner dimension	15	18	24	30	34

Other products



Lube

lubricant used for pipe clamp seal lip and back lubrication, prevent scratch tear sealing ring in the installation process. lubricant to the seal material without any pollution. Special note: to ensure the sealing ring in good condition and normal use, must use lubricant during installation.



Installation Instruction For Rigid & Flexible Coupling



Pipe preparation

Check pipe end for proper groove dimensions and to assure that pipe end is free of indentations and projections that would prevent proper sealing.



Lubricate gasket

Check gasket to be sure it's compatible for the intended service. Apply thin lubricant to the outside and sealing lips of the gasket.



Gasket installation

Slip the gasket over one pipe, making sure the gasket lip does not over-hang the pipe end.



Alignment

After aligning two pipe ends together, pull the gasket into position, centering between the grooves on each pipe. The gasket should not extend into the groove on either pipe.



Housing installation

Remove one bolt & nut and loosen the other nut. Place one housing over the gasket, making sure the housing keys fit into the pipe grooves. Swing the other housing over the gasket and into the grooves on both pipes. Re-insert the bolt and connect two housings.



Tighten nuts

Firstly hand tighten nuts and make sure oval neck bolt completely fits into bolt hole. Then securely tighten nuts alternatively and equally to the specified bolt torque by using spanner.



Assembly completed - rigid Coupling

For Rigid Coupling, keep the gaps at bolt pads evenly spaced. Gaskets can't be seen visually.



Assembly completed - Flexible Coupling

For Flexible Coupling, two housings should be iron to iron connected. Gaskets can't be seen visually.

Cuation
Proper torquing of bolts is required to obtain specified performance. – Over torquing the bolts may result in damage to the bolt and / or casting which could result in pipe joint separation. – Under torquing the bolts may result in lower pressure retention capabilities, lower bend load capabilities, joint leakage and pipe joint separation. Pipe joint separation may result in significant property damage and serious injury.

Specified Bolt Torque		
ANSI BOLTS		
Bolt Size	Specified Bolt Torque	
Inch	Lbs-Ft	N.m
3/8	30-45	40-60
1/2	80-100	110-135
5/8	100-130	135-175
3/4	130-180	175-245
7/8	180-240	245-325

Installation Instruction For Threaded & Grooved Mechanical Tee



Pipe preparation

Clean the gasket sealing surface within 16mm of the hole and visually inspect the sealing surface for defects that may prevent proper sealing of the gasket. Don't drill the hole on weld line.



Remove burrs

If any burrs or slug exists at the pipe hole, please remove them before assembly, to protect the gasket and avoid leakage.



Gasket installation

Insert the gasket into outlet housing making sure the tab in the gasket line up with the tab recesses in the housing. Align outlet housing over the pipe hole making sure that the locating collar is in the pipe hole.



Alignment

Align the strap around the pipe, insert the bolts and tighten the nuts finger tight.



Tighten nuts

Alternatively and evenly tighten the nuts to the specified bolt torque.



Assembly completed

There should be even gaps on two sides between upper and lower housings.

Cuation
Proper torquing of bolts is required to obtain specified performance. – Over torquing the bolts may result in damage to the bolt and / or casting which could result in pipe joint separation. – Under torquing the bolts may result in lower pressure retention capabilities, lower bend load capabilities, joint leakage and pipe joint separation. Pipe joint separation may result in significant property damage and serious injury.

Specified Bolt Torque		
ANSI BOLTS		
Bolt Size	Specified Bolt Torque	
Inch	Lbs-Ft	N.m
3/8	30-45	40-60
1/2	80-100	110-135
5/8	100-130	135-175
3/4	–	–
7/8	–	–

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