



GROOVED COUPLINGS AND FITTINGS

PERFECTT SERVICES (MADRAS)

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Perfectt ductile iron casting confirming to ASTM A536 Grade 65–45–12 equal to QT450–12.

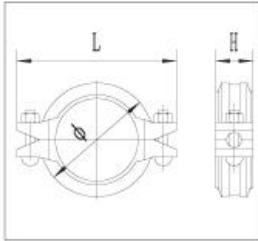
Standard coat:Epoxy Powder

Optional: 1.painted 2.dacromat 3.galvanized

Color can be as per your requirement.

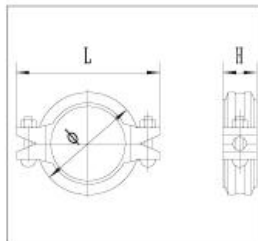


Light Duty Rigid Coupling



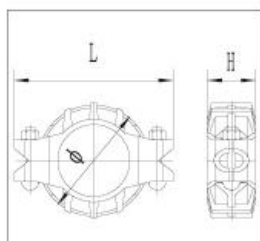
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions mm/in		
			No.-Size mm	Ø	L	H
25 1	33.7 1.327	300 2.07	2-M10*45	55.6 2.188	98 3.858	44 1.732
32 1¼	42.4 1.669	300 2.07	2-M10*45	64.4 2.535	106 4.173	44 1.732
40 1½	48.3 1.900	300 2.07	2-M10*45	71.2 2.803	115 4.527	44 1.732
50	57.0 2.245	300 2.07	2-M10*55	83 3.268	122 4.803	45 1.772
50 2	60.3 2.375	300 2.07	2-M10*55	83.4 3.283	127 5	44 1.732
65 2½	73.0 2.875	300 2.07	2-M10*55	97.6 3.842	138 5.433	44 1.732
65	76.1 3.000	300 2.07	2-M10*55	100 3.937	135.8 5.346	44 1.732
80 3	88.9 3.500	300 2.07	2-M12*60	116.2 4.574	166 6.535	45 1.772
100	108.0 4.250	300 2.07	2-M12*65	137 5.393	188 7.401	48 1.889
100 4	114.3 4.500	300 2.07	2-M12*65	142.6 5.614	193 7.598	48 1.889
125	133.0 5.250	300 2.07	2-M12*65	162.6 6.401	216 8.504	48 1.889
125	139.7 5.500	300 2.07	2-M12*75	172 6.771	224 8.818	48 1.889
150	159.0 6.250	300 2.07	2-M12*75	189.4 7.456	240 9.448	48 1.889
150	165.1 6.500	300 2.07	2-M12*75	198.2 7.803	249 9.803	48 1.889
150 6	168.3 6.625	300 2.07	2-M12*75	200 7.874	252 9.921	48 1.889
200 8	219.1 8.625	300 2.07	2-M16*100	256.8 10.11	321 12.637	60 2.362

Light Duty Flexible Coupling



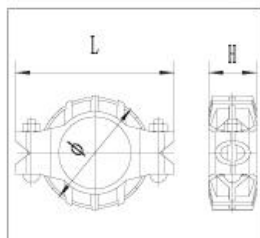
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions mm/in		
			No.-Size mm	Ø	L	H
25 1	33.7 1.327	300 2.07	2-M10*45	55.6 2.188	98 3.858	44 1.732
32 1¼	42.4 1.669	300 2.07	2-M10*45	64.4 2.535	99 3.897	44 1.732
40 1½	48.3 1.900	300 2.07	2-M10*45	71.2 2.803	115 4.527	44 1.732
50	57.0 2.245	300 2.07	2-M10*55	83 3.268	122 4.803	45 1.772
50 2	60.3 2.375	300 2.07	2-M10*55	83.4 3.283	127 5	44 1.732
65 2½	73.0 2.875	300 2.07	2-M10*55	97.6 3.842	138 5.433	44 1.732
65	76.1 3.000	300 2.07	2-M10*55	100 3.937	135.8 5.346	44 1.732
80 3	88.9 3.500	300 2.07	2-M12*60	116.2 4.574	166 6.535	45 1.772
100	108.0 4.250	300 2.07	2-M12*65	137 5.393	188 7.401	48 1.889
100 4	114.3 4.500	300 2.07	2-M12*65	142.6 5.614	193 7.598	48 1.889
125	133.0 5.250	300 2.07	2-M12*65	162.6 6.401	216 8.504	48 1.889
125	139.7 5.500	300 2.07	2-M12*75	172 6.771	224 8.818	48 1.889
150	159.0 6.250	300 2.07	2-M12*75	189.4 7.456	240 9.448	48 1.889
150	165.1 6.500	300 2.07	2-M12*75	198.2 7.803	249 9.803	48 1.889
150 6	168.3 6.625	300 2.07	2-M12*75	200 7.874	252 9.921	48 1.889
200 8	219.1 8.625	300 2.07	2-M16*100	256.8 10.11	321 12.637	60 2.362

Flexible Coupling



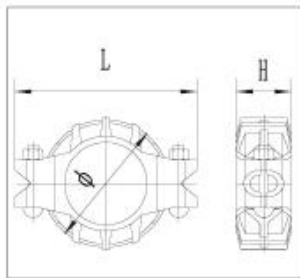
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions mm/in		
			No.-Size mm	Ø	L	H
50 2	60.3 2.375	500 3.45	2-M10*55	92 3.622	130 5.118	48 1.890
65 2½	73.0 2.875	500 3.45	2-M12*65	105.2 4.141	152 5.984	46 1.811
65	76.1 3.000	500 3.45	2-M12*65	108 4.252	152 5.984	48 1.890
80 3	88.9 3.500	500 3.45	2-M12*75	112 4.409	168 6.614	48 1.890
100	108.0 4.250	500 3.45	2-M16*85	154 6.063	209 8.228	52 2.047
100 4	114.3 4.500	500 3.45	2-M16*85	159 6.260	213 8.386	52 2.047
125	133.0 5.250	450 3.10	2-M16*100	179 7.047	238 9.370	52 2.047
125	139.7 5.500	450 3.10	2-M16*100	187 7.362	246 9.685	52 2.047
150	159.0 6.250	450 3.10	2-M16*85	204 8.031	260 10.236	52 2.047
150	165.1 6.500	450 3.10	2-M16*100	213 8.386	265 10.433	52 2.047
150 6	168.3 6.625	450 3.10	2-M16*100	215 8.465	272 10.709	52 2.047
200 8	219.1 8.625	450 3.10	2-M20*110	272 10.709	340 13.386	60 2.362
250 10	273.0 10.750	300 2.07	2-M22*130	328 12.913	420 16.535	64 2.520
300 12	323.9 12.750	300 2.07	2-M22*130	380 14.961	454 17.874	64 2.520
350	377.0 14.843	300 2.07	3-M22*130	445 17.520	480 18.898	72 2.834
400 16	406.4 16.00	300 2.07	3-M22*110	468 18.425	545 21.456	72 2.834
400	426.0 16.772	300 2.07	3-M22*110	490 19.291	592 23.307	72 2.834
500	529.0 20.827	300 2.07	3-M22*110	595 23.425	700 27.559	72 2.834

Heavy Duty Flexible Coupling



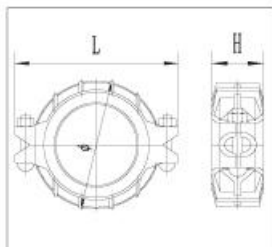
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions mm/in		
			No.-Size mm	Ø	L	H
50 2	60.3 2.375	750 5.18	2-M10*55	92 3.622	130 5.118	45 1.77
65 2½	73.0 2.875	750 5.18	2-M12*60	108 4.251	152 5.984	45 1.77
65	76.1 3.000	750 5.18	2-M12*60	108 4.251	152 5.984	45 1.77
80 3	88.9 3.500	750 5.18	2-M12*60	126 4.960	168 6.614	45 1.77
100 4	114.3 4.500	750 5.18	2-M16*75	159 6.259	213 8.385	52 2.047
125 5	141.3 5.563	700 4.83	2-M16*85	187 7.362	246 9.685	51 2.00
150	165.1 6.500	700 4.83	2-M20*115	213 8.385	265 10.433	52 2.047
150 6	168.3 6.625	700 4.83	2-M20*115	215 8.464	272 10.708	51 2.00
200 8	219.1 8.625	600 4.14	2-M22*130	268 10.56	354 13.94	61 2.00

Rigid Coupling



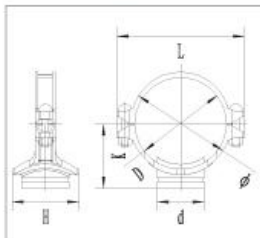
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions mm/in		
			No.-Size mm	Ø	L	H
50 2	60.3 2.375	500 3.45	2-M10*55	92 3.622	130 5.118	48 1.890
65 2½	73.0 2.875	500 3.45	2-M12*65	105.2 4.141	152 5.984	46 1.811
65	76.1 3.000	500 3.45	2-M12*65	108 4.252	152 5.984	48 1.890
80 3	88.9 3.500	500 3.45	2-M12*75	112 4.409	168 6.614	48 1.890
100	108.0 4.250	500 3.45	2-M16*85	154 6.063	209 8.228	52 2.047
100 4	114.3 4.500	500 3.45	2-M16*85	159 6.260	213 8.386	52 2.047
125	133.0 5.250	450 3.10	2-M16*100	179 7.047	238 9.370	52 2.047
125	139.7 5.500	450 3.10	2-M16*100	187 7.362	246 9.685	52 2.047
150	159.0 6.250	450 3.10	2-M16*85	204 8.031	260 10.236	52 2.047
150	165.1 6.500	450 3.10	2-M16*100	213 8.386	265 10.433	52 2.047
150 6	168.3 6.625	450 3.10	2-M16*100	215 8.465	272 10.709	52 2.047
200 8	219.1 8.625	450 3.10	2-M20*110	272 10.709	340 13.386	60 2.362
250 10	273.0 10.750	300 2.07	2-M22*130	328 12.913	420 16.535	64 2.520
300 12	323.9 12.750	300 2.07	2-M22*130	380 14.961	454 17.874	64 2.520
350	377.0 14.843	300 2.07	3-M22*130	445 17.520	480 18.898	72 2.834
400 16	406.4 16.00	300 2.07	3-M22*110	468 18.425	545 21.456	72 2.834
400	426.0 16.772	300 2.07	3-M22*110	490 19.291	592 23.307	72 2.834
500	529.0 20.827	300 2.07	3-M22*110	595 23.425	700 27.559	72 2.834

Reducing Coupling



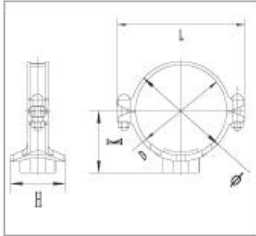
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size No. - Size mm	Dimensions mm/in		
				Ø	L	H
50*32 2*1¼	60.3*42.4 2.375*1.669	300 2.07	2-M10*55	90 3.543	129 5.079	47 1.850
50*40 2*1½	60.3*48.3 2.375*1.900	300 2.07	2-M10*55	90 3.543	129 5.079	47 1.850
65*40 2½*1½	73.0*48.3 2.874*1.900	300 2.07	2-M10*55	101 3.976	137 5.394	48 1.890
65*50 2½*2	73.0*60.3 2.874*2.375	300 2.07	2-M10*55	101 3.976	137 5.394	48 1.890
65*40	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	76.1*60.3 2.996*2.375	300 2.07	2-M10*55	105 4.134	140 5.512	48 1.890
80*50 3*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*2½	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	88.9*76.1 3.500*2.996	300 2.07	2-M12*65	120 4.724	164 6.457	48 1.890
100*40 4*1½	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*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	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	114.3*88.9 4.500*3.500	300 2.07	2-M12*65	150 5.906	195 7.677	49 1.929
125*50	139.7*60.3 5.500*2.375	300 2.07	2-M12*65	177 6.969	222 8.740	48.5 1.909
125*65	139.7*76.1 5.500*2.996	300 2.07	2-M12*65	177 6.969	222 8.740	48.5 1.909
125*80	139.7*88.9 5.500*3.500	300 2.07	2-M12*65	177 6.969	222 8.740	48.5 1.909
125*100	139.7*114.3 5.500*4.500	300 2.07	2-M12*65	177 6.969	222 8.740	48.5 1.909
150*65	165.1*76.1 6.500*2.996	300 2.07	2-M12*75	203 7.992	235 9.252	50 1.969
150*80	165.1*88.9 6.500*3.500	300 2.07	2-M12*75	203 7.992	235 9.252	50 1.969
150*100	165.1*114.3 6.500*4.500	300 2.07	2-M12*75	203 7.992	235 9.252	50 1.969
150*65	168.3*76.1 6.625*2.996	300 2.07	2-M12*75	203 7.992	235 9.252	50 1.969
150*80	168.3*88.9 6.625*3.500	300 2.07	2-M12*75	203 7.992	235 9.252	50 1.969
150*100	168.3*114.3 6.625*4.500	300 2.07	2-M12*75	203 7.992	235 9.252	50 1.969
150*125	168.3*139.7 6.625*5.500	300 2.07	2-M12*75	203 7.992	235 9.252	50 1.969
200*65 8*2½	219.1*76.1 8.625*2.996	300 2.07	2-M16*100	264 10.394	313 12.323	60 2.362
200*80 8*3	219.1*88.9 8.625*3.500	300 2.07	2-M16*100	264 10.394	313 12.323	60 2.362
200*100 8*4	219.1*114.3 8.625*4.500	300 2.07	2-M16*100	264 10.394	313 12.323	60 2.362
200*125	219.1*139.7 8.625*5.500	300 2.07	2-M16*100	264 10.394	313 12.323	60 2.362
200*150	219.1*165.1 8.625*6.500	300 2.07	2-M16*100	264 10.394	313 12.323	60 2.362
200*150 8*6	219.1*168.3 8.625*6.625	300 2.07	2-M16*100	264 10.394	313 12.323	60 2.362

Mechanical Tee Grooved



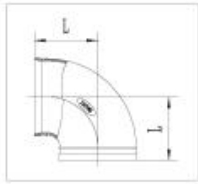
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size No.—Size mm	Dimensions mm/in				Hole cutting dimensions mm/in
				Ø	L	K	H	
50*32	60.3*42.4	300	2-M10*55	74	116	59	69	46
2*1¼	2.375*1.669	2.07		2.913	4.566	2.322	2.716	1.811
50*40	60.3*48.3	300		78	116	59	69	46
2*1½	2.375*1.900	2.07		3.07	4.566	2.322	2.716	1.811
65*25	76.1*33.7	300		93	144	70	77	38
	2.996*1.327	2.07		3.661	5.669	2.755	2.716	1.496
65*32	76.1*42.4	300		93	144	70	84	46
	2.996*1.669	2.07		3.661	5.669	2.755	3.307	1.811
65*40	76.1*48.3	300		93	144	70	83	51
	2.996*1.900	2.07		3.661	5.669	2.755	3.267	2.007
80*25	88.9*33.7	300		104	152	76	78	38
3*1	3.500*1.327	2.07		4.094	5.984	2.755	3.070	1.496
80*32	88.9*42.4	300		104	152	76	82	46
3*1¼	3.500*1.669	2.07		4.094	5.984	2.755	3.228	1.811
80*40	88.9*48.3	300	2-M12*65	104	152	77	91	51
3*1½	3.500*1.900	2.07		4.094	5.984	2.755	3.582	2.007
80*50	88.9*60.3	300		114	152	82	97	61
3*2	3.500*2.375	2.07		4.488	5.984	3.228	2.402	2.402
100*25	114.3*33.7	300		133	188	93	77	35
4*1	4.500*1.327	2.07		5.236	7.401	3.661	3.031	1.496
100*32	114.3*42.4	300		133	188	93	83	46
4*1¼	4.500*1.669	2.07		5.236	7.322	3.661	3.267	1.811
100*40	114.3*48.3	300		133	188	93	92	51
4*1½	4.500*1.900	2.07		5.236	7.322	3.661	3.622	2.007
100*50	114.3*60.3	300		140	188	93	97	61
4*2	4.500*2.375	2.07		5.512	7.402	3.661	3.819	2.402
100*65	114.3*76.1	300		140	188	93	112	81
	4.500*2.996	2.07		5.512	7.402	3.661	4.409	3.189
100*80	114.3*88.9	300		140	188	93	122	86
4*3	4.500*3.500	2.07		5.512	7.402	3.661	4.803	3.386
125*50	139.7*60.3	300		168	220	107	97	61
	5.500*2.375	2.07		6.614	8.661	4.213	3.819	2.402
125*65	139.7*76.1	300		168	220	107	112	81
	5.500*2.996	2.07		6.614	8.661	4.213	4.409	3.189
125*80	139.7*88.9	300		168	220	107	122	86
	5.500*3.500	2.07		6.614	8.661	4.213	4.803	3.386
150*65	159.0*76.1	300		168	220	107	112	81
	6.260*2.996	2.07		6.614	8.661	4.213	4.409	3.189
150*80	159.0*88.9	300		187	242	117	122	86
	6.260*3.500	2.07		7.362	9.528	4.606	4.803	3.386
150*100	159.0*108.0	300		187	242	117	134	114
	6.260*4.252	2.07		7.362	9.528	4.606	5.276	4.488
150*100	159.0*114.3	300		187	242	117	134	114
	6.260*4.500	2.07		7.362	9.528	4.606	5.276	4.488
150*50	165.1*60.3	300		194	247	125	97	61
	6.500*2.375	2.07		7.638	9.724	4.921	3.819	2.402
150*65	165.1*76.1	300		194	247	125	112	81
	6.500*2.996	2.07		7.638	9.724	4.921	4.409	3.189
150*80	165.1*88.9	300	2-M12*75	194	247	125	122	86
	6.500*3.500	2.07		7.638	9.724	4.921	4.803	3.386
150*100	165.1*114.3	300		194	247	125	134	114
	6.500*4.500	2.07		7.638	9.724	4.921	5.276	4.488
150*32	168.3*42.4	300		198	247	128	82	46
6*1¼	6.625*1.669	2.07		7.795	9.724	5.039	3.228	1.811
150*40	168.3*48.3	300		198	247	128	92	51
6*1½	6.625*1.900	2.07		7.795	9.724	5.039	3.622	2.007
150*50	168.3*60.3	300		198	247	128	98	61
6*2	6.625*2.375	2.07		7.795	9.724	5.039	3.858	2.401
150*65	168.3*76.1	300		198	247	128	121	81
6*2½	6.625*2.996	2.07		7.795	9.724	5.039	4.763	3.228
150*80	168.3*88.9	300		198	247	128	134	86
6*3	6.625*3.500	2.07		7.795	9.724	5.039	5.275	3.385
150*100	168.3*114.3	300		198	247	128	157	114
6*4	6.625*4.500	2.07		7.795	9.724	5.039	6.181	4.488
200*50	219.1*60.3	300		250	310	146	97	61
8*2	8.625*2.375	2.07		9.843	12.205	5.748	3.819	2.402
200*65	219.1*76.1	300		250	310	146	112	81
8*2½	8.625*2.996	2.07		9.843	12.205	5.748	4.409	3.189
200*80	219.1*88.9	300	2-M16*100	250	310	146	122	86
8*3	8.625*3.500	2.07		9.843	12.205	5.748	4.803	3.386
200*100	219.1*108.0	300		250	310	146	134	114
8*4	8.625*4.250	2.07		9.843	12.205	5.748	5.276	4.488
200*100	219.1*114.3	300		250	310	146	134	114
8*4	8.625*4.500	2.07		9.843	12.205	5.748	5.276	4.488
200*150	219.1*165.1	300		309	376	174	214	160
8*6	8.625*6.500	2.07		12.165	14.803	6.850	8.425	6.299
250*100	273.0*114.3	300	2-M22*130	309	376	174	134	114
10*4	10.748*4.500	2.07		12.165	14.803	6.850	5.276	4.488
250*125	273.0*139.7	300		309	376	174	186	135
8*6	10.748*5.500	2.07		12.165	14.803	6.850	7.323	5.315

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 cutting diameters mm/in
				Ø	L	K	H	
40*25 1½*1	48.3*33.7 1.900*1.327	300 2.07	2-M10*45	67	112	56	61	32
50*25 2*1	60.3*33.7 2.375*1.327	300 2.07	2-M10*55	75	116	60	69	38
50*32 2*1¼	60.3*42.4 2.375*1.669	300 2.07		2.953	4.567	2.362	2.717	1.496
50*32 2*1¼	60.3*42.4 2.375*1.669	300 2.07		75	116	60	69	46
50*40 2*1½	60.3*48.3 2.375*1.900	300 2.07		2.953	4.567	2.362	2.717	1.811
65*25	76.1*33.7 2.986*1.327	300 2.07	2-M10*55	102	144	70	77	38
65*32	76.1*42.4 2.986*1.669	300 2.07		4.016	5.669	2.756	3.031	1.496
65*40	76.1*48.3 2.986*1.900	300 2.07		102	144	70	83	51
80*25	88.9*33.7 3.500*1.327	300 2.07		4.016	5.669	2.756	3.268	2.008
80*32 3*1	88.9*42.4 3.500*1.669	300 2.07	2-M12*65	114	152	82	77	38
80*32 3*1¼	88.9*42.4 3.500*1.669	300 2.07		4.488	5.984	3.228	3.031	1.496
80*40 3*1½	88.9*48.3 3.500*1.900	300 2.07		114	152	82	83	46
80*50 3*2	88.9*60.3 3.500*2.375	300 2.07		4.488	5.984	3.228	3.268	1.811
100*25	108.0*33.7 4.252*1.327	300 2.07	2-M12*65	114	152	82	92	51
100*32	108.0*42.4 4.252*1.669	300 2.07		4.488	5.984	3.228	3.622	2.008
100*40	108.0*48.3 4.252*1.900	300 2.07		114	152	82	99	61
100*50	108.0*60.3 4.252*2.375	300 2.07		4.488	5.984	3.228	3.888	2.402
100*65	108.0*76.1 4.252*2.986	300 2.07	2-M16*85	135	172	87	77	38
100*75	108.0*88.9 4.252*3.500	300 2.07		5.315	6.772	3.425	3.031	1.496
100*80	108.0*96.3 4.252*3.819	300 2.07		135	172	87	83	46
100*90	108.0*108.0 4.252*4.252	300 2.07		5.315	6.772	3.425	3.268	1.811
100*100	108.0*114.3 4.252*4.500	300 2.07	2-M16*85	135	172	87	97	61
100*125	108.0*141.3 4.252*5.562	300 2.07		5.315	6.772	3.425	3.622	2.008
100*150	108.0*168.3 4.252*6.625	300 2.07		135	172	87	112	81
100*165	108.0*184.8 4.252*7.287	300 2.07		5.315	6.772	3.425	4.409	2.756
100*180	108.0*201.3 4.252*7.949	300 2.07	2-M16*85	140	188	93	77	38
100*200	108.0*227.9 4.252*8.996	300 2.07		5.512	7.402	3.661	3.031	1.496
100*225	108.0*254.5 4.252*10.043	300 2.07		140	188	93	83	46
100*250	108.0*281.1 4.252*11.090	300 2.07		5.512	7.402	3.661	3.268	1.811
100*275	108.0*307.7 4.252*12.137	300 2.07	2-M16*85	140	188	93	82	51
100*300	108.0*334.3 4.252*13.184	300 2.07		5.512	7.402	3.661	3.622	2.008
100*325	108.0*360.9 4.252*14.231	300 2.07		140	188	93	87	61
100*350	108.0*387.5 4.252*15.278	300 2.07		5.512	7.402	3.661	3.819	2.402
100*375	108.0*414.1 4.252*16.325	300 2.07	2-M16*85	140	188	93	112	81
100*400	108.0*440.7 4.252*17.372	300 2.07		5.512	7.402	3.661	4.409	3.189
100*425	108.0*467.3 4.252*18.419	300 2.07		140	188	93	122	96
100*450	108.0*493.9 4.252*19.466	300 2.07		5.512	7.402	3.661	4.803	3.386
100*475	108.0*520.5 4.252*20.513	300 2.07	2-M16*85	160	210	100	77	38
100*500	108.0*547.1 4.252*21.560	300 2.07		6.299	8.268	3.937	3.031	1.496
100*525	108.0*573.7 4.252*22.607	300 2.07		160	210	100	82	51
100*550	108.0*600.3 4.252*23.654	300 2.07		6.299	8.268	3.937	3.268	1.811
100*575	108.0*626.9 4.252*24.701	300 2.07	2-M16*85	160	210	100	92	61
100*600	108.0*653.5 4.252*25.748	300 2.07		6.299	8.268	3.937	3.622	2.008
100*625	108.0*680.1 4.252*26.795	300 2.07		160	210	100	97	61
100*650	108.0*706.7 4.252*27.842	300 2.07		6.299	8.268	3.937	3.819	2.402
100*675	108.0*733.3 4.252*28.889	300 2.07	2-M16*85	160	210	100	112	81
100*700	108.0*760.0 4.252*29.936	300 2.07		6.299	8.268	3.937	4.409	3.189
100*725	108.0*786.6 4.252*30.983	300 2.07		160	210	100	122	96
100*750	108.0*813.2 4.252*32.030	300 2.07		6.299	8.268	3.937	4.803	3.386
100*775	108.0*839.8 4.252*33.077	300 2.07	2-M16*85	160	210	100	122	96
100*800	108.0*866.4 4.252*34.124	300 2.07		6.299	8.268	3.937	5.206	3.584
100*825	108.0*893.0 4.252*35.171	300 2.07		160	210	100	122	96
100*850	108.0*919.6 4.252*36.218	300 2.07		6.299	8.268	3.937	5.603	3.781
100*875	108.0*946.2 4.252*37.265	300 2.07	2-M16*85	160	210	100	122	96
100*900	108.0*972.8 4.252*38.312	300 2.07		6.299	8.268	3.937	6.000	3.978
100*925	108.0*999.4 4.252*39.359	300 2.07		160	210	100	122	96
100*950	108.0*1026.0 4.252*40.406	300 2.07		6.299	8.268	3.937	6.400	4.175
100*975	108.0*1052.6 4.252*41.453	300 2.07	2-M16*85	160	210	100	122	96
100*1000	108.0*1079.2 4.252*42.500	300 2.07		6.299	8.268	3.937	6.800	4.372
100*1025	108.0*1105.8 4.252*43.547	300 2.07		160	210	100	122	96
100*1050	108.0*1132.4 4.252*44.594	300 2.07		6.299	8.268	3.937	7.200	4.569
100*1075	108.0*1159.0 4.252*45.641	300 2.07	2-M16*85	160	210	100	122	96
100*1100	108.0*1185.6 4.252*46.688	300 2.07		6.299	8.268	3.937	7.600	4.766
100*1125	108.0*1212.2 4.252*47.735	300 2.07		160	210	100	122	96
100*1150	108.0*1238.8 4.252*48.782	300 2.07		6.299	8.268	3.937	8.000	4.963
100*1175	108.0*1265.4 4.252*49.829	300 2.07	2-M16*85	160	210	100	122	96
100*1200	108.0*1292.0 4.252*50.876	300 2.07		6.299	8.268	3.937	8.400	5.160
100*1225	108.0*1318.6 4.252*51.923	300 2.07		160	210	100	122	96
100*1250	108.0*1345.2 4.252*52.970	300 2.07		6.299	8.268	3.937	8.800	5.357
100*1275	108.0*1371.8 4.252*54.017	300 2.07	2-M16*85	160	210	100	122	96
100*1300	108.0*1398.4 4.252*55.064	300 2.07		6.299	8.268	3.937	9.200	5.554
100*1325	108.0*1425.0 4.252*56.111	300 2.07		160	210	100	122	96
100*1350	108.0*1451.6 4.252*57.158	300 2.07		6.299	8.268	3.937	9.600	5.751
100*1375	108.0*1478.2 4.252*58.205	300 2.07	2-M16*85	160	210	100	122	96
100*1400	108.0*1504.8 4.252*59.252	300 2.07		6.299	8.268	3.937	10.000	5.948
100*1425	108.0*1531.4 4.252*60.299	300 2.07		160	210	100	122	96
100*1450	108.0*1558.0 4.252*61.346	300 2.07		6.299	8.268	3.937	10.400	6.145
100*1475	108.0*1584.6 4.252*62.393	300 2.07	2-M16*85	160	210	100	122	96
100*1500	108.0*1611.2 4.252*63.440	300 2.07		6.299	8.268	3.937	10.800	6.342
100*1525	108.0*1637.8 4.252*64.487	300 2.07		160	210	100	122	96
100*1550	108.0*1664.4 4.252*65.534	300 2.07		6.299	8.268	3.937	11.200	6.539
100*1575	108.0*1691.0 4.252*66.581	300 2.07	2-M16*85	160	210	100	122	96
100*1600	108.0*1717.6 4.252*67.628	300 2.07		6.299	8.268	3.937	11.600	6.736
100*1625	108.0*1744.2 4.252*68.675	300 2.07		160	210	100	122	96
100*1650	108.0*1770.8 4.252*69.722	300 2.07		6.299	8.268	3.937	12.000	6.933
100*1675	108.0*1797.4 4.252*70.769	300 2.07	2-M16*85	160	210	100	122	96
100*1700	108.0*1824.0 4.252*71.816	300 2.07		6.299	8.268	3.937	12.400	7.130
100*1725	108.0*1850.6 4.252*72.863	300 2.07		160	210	100	122	96
100*1750	108.0*1877.2 4.252*73.910	300 2.07		6.299	8.268	3.937	12.800	7.327
100*1775	108.0*1903.8 4.252*74.957	300 2.07	2-M16*85	160	210	100	122	96
100*1800	108.0*1930.4 4.252*76.004	300 2.07		6.299	8.268	3.937	13.200	7.524
100*1825	108.0*1957.0 4.252*77.051	300 2.07		160	210	100	122	96
100*1850	108.0*1983.6 4.252*78.098	300 2.07		6.299	8.268	3.937	13.600	7.721
100*1875	108.0*2010.2 4.252*79.145	300 2.07	2-M16*85	160	210	100	122	96
100*1900	108.0*2036.8 4.252*80.192	300 2.07		6.299	8.268	3.937	14.000	7.918
100*1925	108.0*2063.4 4.252*81.239	300 2.07		160	210	100	122	96
100*1950	108.0*2090.0 4.252*82.286	300 2.07		6.299	8.268	3.937	14.400	8.115
100*1975	108.0*2116.6 4.252*83.333	300 2.07	2-M16*85	160	210	100	122	96
100*2000	108.0*2143.2 4.252*84.380	300 2.07		6.299	8.268	3.937	14.800	8.312
100*2025	108.0*2169.8 4.252*85.427	300 2.07		160	210	100	122	96
100*2050	108.0*2196.4 4.252*86.474	300 2.07		6.299	8.268	3.937	15.200	8.509
100*2075	108.0*2223.0 4.252*87.521	300 2.07	2-M16*85	160	210	100	122	96
100*2100	108.0*2249.6 4.252*88.56							

90° Elbow



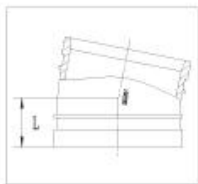
45° Elbow



22.5° Elbow

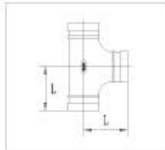


11.25° Elbow

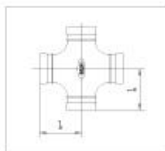


Size	Pipe O.D.	90° Elbow		45° Elbow	22.5° Elbow		11.25° Elbow
		Standard	Short		Standard	Short	
		L	L	L	L	L	L
DN	mm	mm	mm	mm	mm	mm	mm
in	in	in	in	in	in	in	in
25	33.7	57	57	38	41	41	35
1	1.315	2.24	2.244	1.496	1.61	1.61	1.377
32	42.4	70	60	44	44	44	35
1¼	1.660	2.755	2.362	1.732	1.732	1.732	1.377
40	48.3	70	60	44	44	44	35
1½	1.900	2.755	2.362	1.732	1.732	1.732	1.377
50	57.0	83	70	51	51	51	35
	2.244	3.267	2.755	2.007	2	2	1.377
50	60.3	83	70	51	51	51	35
2	2.375	3.267	2.755	2.007	2	2	1.377
65	73.0	95	76.2	57	51	51	38
2½	2.875	3.74	3	2.007	2	2	1.496
65	76.1	95	76.2	57	51	51	38
	3.000	3.74	3	2.007	2	2	1.496
80	88.9	108	85.8	64	57	57	38
3	3.500	4.251	3.377	2.519	2.244	2.244	1.496
100	108.0	127	101.6	76	73	73	44
	4.252	5	4	2.992	2.874	2.874	1.732
100	114.3	127	101.6	76	73	73	48
4	4.500	5	4	2.992	2.874	2.874	1.889
125	133.0	140	122	83	73	73	51
	5.250	5.511	4.803	3.267	2.874	2.874	2.007
125	139.7	140	122	83	73	73	51
	5.500	5.511	4.803	3.267	2.874	2.874	2.007
150	159.0	165	140	89	79	79	51
	6.260	6.496	5.511	3.503	3.11	3.11	2.007
150	165.1	165	140	89	79	79	51
	6.500	6.496	5.511	3.503	3.11	3.11	2.007
150	168.3	165	140	89	79	79	51
6	6.625	6.496	5.511	3.503	3.11	3.11	2.007
200	219.1	197	174.5	108	98	83	51
8	8.625	7.755	6.870	4.251	3.858	3.267	2.007
250	273.0	229	215	121	111	89	54
10	10.750	9.015	8.464	4.763	4.37	3.503	2.125
300	323.9	254	245	133	124	102	57
12	12.750	10	9.645	5.236	4.88	4.01	2.244
350	377.0	377	356	146	127	127	89
	14.843	14.84	14.015	5.748	5	5	3.503

Tee



Cross



Cap



Reducer (grooved)

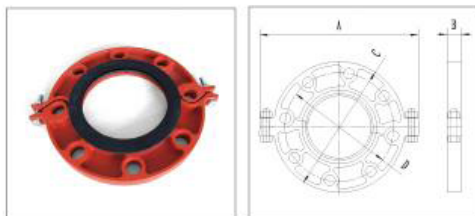


Reducer (threaded)



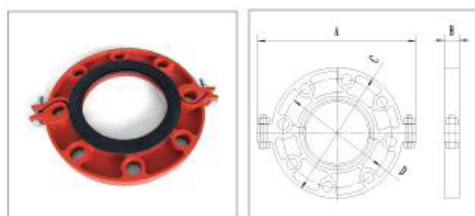
Size	Pipe O.D.	Tee		Cross		Cap	Reducer grooved	Reducer threaded
		Standard	Short	Standard	Short			
		L	L	L	L			
DN	mm	mm	mm	mm	mm	mm	mm	mm
in	in	in	in	in	in	in	in	in
25	33.7	57	57	57	57	22	64	64
1	1.315	2.244	2.244	2.244	2.244	0.866	2.519	2.519
32	42.4	70	60	70	60	22	64	64
1¼	1.660	2.755	2.362	2.755	2.362	0.866	2.519	2.519
40	48.3	70	60	70	60	22	64	64
1½	1.900	2.755	2.362	2.755	2.362	0.866	2.519	2.519
50	57.0	83	70	83	70	22	64	64
	2.244	3.267	2.755	3.267	2.755	0.866	2.519	2.519
50	60.3	83	70	83	70	22	64	64
2	2.375	3.267	2.755	3.267	2.755	0.866	2.519	2.519
65	73.0	95	76.2	95	76.2	22	64	64
2½	2.875	3.74	3	3.74	3	0.866	2.519	2.519
65	76.1	95	76.2	95	76.2	22	64	64
	3.000	3.74	3	3.74	3	0.866	2.519	2.519
80	88.9	108	85.8	108	85.8	22	64	64
3	3.500	4.251	3.377	4.251	3.377	0.866	2.519	2.519
100	108.0	127	101.6	127	101.6	25	76	76
	4.252	5	4	5	4	0.99	2.99	2.99
100	114.3	127	101.6	127	101.6	25	76	76
4	4.500	5	4	5	4	0.99	2.99	2.99
125	133.0	140	122	140	122	25	102	102
	5.250	5.511	4.803	5.511	4.803	0.99	4.015	4.015
125	139.7	140	122	140	122	25	102	102
5	5.500	5.511	4.803	5.511	4.803	0.99	4.015	4.015
150	159.0	165	140	165	140	25	102	102
	6.260	6.496	5.511	6.496	5.511	0.99	4.015	4.015
150	165.1	165	140	165	140	25	102	102
	6.500	6.496	5.511	6.496	5.511	0.99	4.015	4.015
150	168.3	165	140	165	140	25	102	102
6	6.625	6.496	5.511	6.496	5.511	0.99	4.015	4.015
200	219.1	197	175	197	175	30	127	406
8	8.625	7.755	6.889	7.755	6.889	1.181	5	15.98
250	273.0	229	215	229	215	32	152	
10	10.750	9.015	8.464	9.015	8.464	1.259	5.98	
300	323.9	254	245	254	245	32	178	
12	12.750	10	9.645	10	9.645	1.259	7	
350	377.0	279	279	279	279	247	330	
	14.843	10.984	10.948	10.984	10.984	9.724	12.99	

Grooved Flange



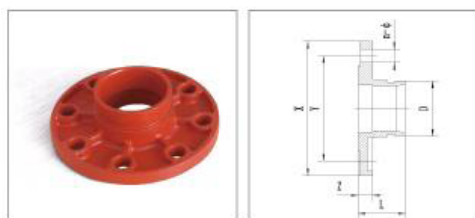
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimensions mm/in				Bolt Size No.-Size mm
			A mm/in	B mm/in	C mm/in	D mm/in	
50	60.3	230	217	23	165	125	4-M16
2	2.375	1.6	8.543	0.906	6.496	4.921	
65	76.1	230	240	23	185	145	4-M16
	3.000	1.6	9.448	0.906	7.283	5.708	
80	88.9	230	252	23	200	160	8-M16
3	3.500	1.6	9.921	0.906	7.874	6.299	
100	114.3	230	280	23	220	180	8-M16
4	4.500	1.6	11.024	0.906	8.661	7.086	
125	139.7	230	316	24	250	210	8-M16
	5.500	1.6	12.44	0.944	9.842	8.267	
150	168.3	230	346	24	285	240	8-M20
6	6.625	1.6	13.622	0.944	11.22	9.448	
200	219.1	230	418	28	340	295	12-M20
8	8.625	1.6	16.456	1.102	13.38	11.614	
250	273.0	230	481	30	405	355	12-M24
10	10.750	1.6	18.937	1.181	15.94	13.97	

Grooved Flange ASME Class 150



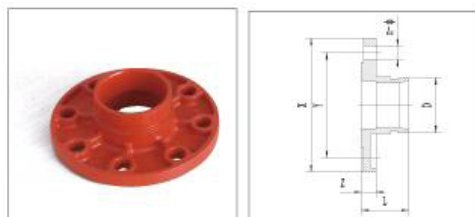
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimensions mm/in				Bolt Size No.-Size mm
			A mm/in	B mm/in	C mm/in	D mm/in	
50	60.3	300	206	22	152	120.5	4-M16
2	2.375	2.065	8.110	0.866	5.984	4.744	
65	73.0	300	230	22	178	139.5	4-M16
2 1/2	2.875	2.065	9.055	0.866	7.007	5.492	
80	88.9	300	242	24	191	152.5	4-M16
3	3.500	2.065	9.527	0.944	7.519	6.00	
100	114.3	300	280	24	229	190.5	8-M16
4	4.500	2.065	11.023	0.944	9.015	7.5	
125	141.3	300	325	24.5	254	216	8-M20
5	5.563	2.065	12.795	0.964	10	8.503	
200	219.1	300	414.3	30	341.4	298.5	8-M20
8	8.625	2.065	16.311	1.181	13.44	11.751	

Flange adaptor



Nominal Size mm/in	Pipe O.D mm/in D	Working Pressure PSI/MPa	Dimensions mm/in				Bolt Size No.-Size mm
			L mm/in	X mm/in	Y mm/in	Z mm/in	
50	60.3	230	65	165	125	16	4-M16
2	2.375	1.6	2.559	6.496	4.92	0.629	
65	73.0	230	65	185	145	16	4-M16
	2.875	1.6	2.559	7.283	5.70	0.629	
65	76.1	230	65	185	145	16	4-M16
2 1/2	3.000	1.6	2.559	7.283	5.70	0.629	
80	88.9	230	65	200	160	16	8-M16
3	3.500	1.6	2.559	7.874	6.29	0.629	
100	108.0	230	70	220	180	16	8-M16
	4.250	1.6	2.755	8.661	7.08	0.629	
100	114.3	230	70	220	180	16	8-M16
4	4.500	1.6	2.755	8.661	7.08	0.629	
125	133.0	230	70	250	210	18	8-M16
	5.250	1.6	2.755	9.842	8.26	0.708	
125	139.7	230	70	250	210	18	8-M16
5	5.500	1.6	2.755	9.842	8.26	0.708	
150	159.0	230	70	285	240	18	8-M20
	6.250	1.6	2.755	11.22	9.448	0.708	
150	165.1	230	70	285	240	18	8-M20
	6.500	1.6	2.755	11.22	9.448	0.708	
150	168.3	230	70	285	240	18	8-M20
	6.625	1.6	2.755	11.22	9.448	0.708	
200	219.1	230	80	340	295	19	12-M20
8	8.625	1.6	3.149	13.38	11.61	0.748	
250	273.0	230	85	405	355	21	12-M20
10	10.750	1.6	3.346	15.944	13.97	0.826	
300	323.9	230	90	460	410	24	12-M20
12	12.750	1.6	3.543	18.11	16.14	0.944	
350	377.0	230	100	520	470	26	16-M20
	14.843	1.6	3.937	20.47	18.50	1.02	

Flange adaptor ASME Class 150



Nominal Size mm/in	Pipe O.D mm/in D	Working Pressure PSI/MPa	Dimensions mm/in				Bolt Size No.-Size mm
			L mm/in	X mm/in	Y mm/in	Z mm/in	
50	60.3	300	65	152	120.5	19	4-M16
2	2.375	2.065	2.559	5.98	4.744	0.748	
65	73.0	300	65	178	139.5	24	4-M16
2 1/2	2.875	2.065	2.559	7.00	5.492	0.944	
80	88.9	300	65	190	152.5	24	8-M16
3	3.500	2.065	2.559	7.48	6.00	0.944	
100	114.3	300	70	229	190.5	24	8-M16
4	4.500	2.065	2.755	9.015	7.5	0.944	
125	141.3	300	70	254	216	24	8-M16
5	5.562	2.065	2.755	10	8.503	0.944	
150	168.3	300	70	279	241.5	25	8-M20
6	6.625	2.065	2.755	10.98	9.507	0.984	
200	219.1	300	80	343	298.5	29	8-M20
8	8.625	2.065	3.149	13.50	11.751	1.141	
250	273.0	300	85	406	362	30	12-M20
10	10.750	2.065	3.346	15.98	14.251	1.181	
300	323.9	300	90	483	432	32	12-M20
12	12.750	2.065	3.543	19.01	17.00	1.259	

Gasket Ring



Material Composition	Applicable Temperature	Application Scope
EPDM	-34℃—+150	Cold and hot water, non-oil gas, diluted acid, alkaline salt, and multi-chemicals (free of hydrocarbon). Oil-like mediums are forbidden.
Silicon rubber	-40℃—+177	Drinking water, hot water, high-temperature air and some high-temperature chemicals. Oil-like mediums are forbidden.
Nitrile rubber	-29℃—+82℃	Oil, oil-gas, mineral oil, vegetable oil, hot water, water with temperature of not than 65℃ are forbidden.
Notes: 1、Gasket rings of different materials will be used for different 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, and its mechanical properties should reach Gr.8.8 (GB/T3098.1/2-2000) or Gr.5 (SAEJ429) after hot-treatment. Only one wrench will be used during the installation, safely and firmly.

Hole cutting tool



- Stable feeding mechanism with the support of dovetail guide
- Three-phase motor, contributes to high efficiency

Grooving machine



This machine is applicable for channeling of zinc-plated pipes, seamless pipes, stainless steel pipes and plastic-lined pipes of various sizes ranging from ϕ 33mm to ϕ 630mm.

Castings



Valve

