

GROOVED COUPLINGS AND FITTINGS

100TONG® 100T®

Weifang 100Tong Casting Co., Ltd.



Company profile

Weifang 100Tong Casting Co., Ltd, established in 2002, covering 70,000 square meters, lies in Weifang City-world kite capital, Shandong Province. There are more than 400 skillful workers, and annual output value has exceeded RMB 230 million since 2012.

100TONG is specialized in ductile iron grooved fittings and couplings, valves and coated steel pipes. The company has passed ISO9001 quality system, and grooved products has been approved by FM,UL,CE and VDS is pending in 2013.

100TONG has five producing workshops: Auto-casting workshop, Hand molding casting workshop, Machining workshop, Painting workshop, and Moulding workshop. All grooved products are produced by the advanced casting toolings of electric furnace melting, auto-casting, and vermicularizing control. There are 6 CNC machines to make mouldings, 8 medium frequency furnaces, 4 auto-casting lines, more than 50 CNC lathes, 2 epoxy&painting lines, and the annual capacity has exceeded 50,000 tons.

100TONG as the Shandong well-known brand is enjoying high reputation among the customers for its faith, quality, price and service. Products are on sale all over 300 cities of China, and exported to the United State, Canada, Europe, Middle East, South Africa, Australia, and more than 30 coutries and areas.

Service is no limit, unflagging pursuit of excellence. Weifang 100Tong Casting Co., Ltd will make unremitting pursuit towards future.









Export Countries





FM Approvals

Not to be Distributed Outside of FM Approvals and its Affiliates Except by the Customer

APPROVAL REPORT

PIPE FITTINGS AND RIGID AND FLEXIBLE COUPLINGS IN VARIOUS SIZES WITH INCREASED PRESSURE RATING

Prepared For:

Weifang 100Tong Casting Co., Ltd.
No 1919 Jichang South Rd.
Weicheng District, Weifang 260152
Shangdong, China

Project Identifier: 3037453
Class: 1920
Approval Date: June 30, 2010

Authorized by:



Underwriters Laboratories Inc.



Underwriters Laboratories Inc.



EUROPEAN INSPECTION AND CERTIFICATION COMPANY S.A.
NOTIFIED BODY 1128

CERTIFICATE

CE



IQNet

THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet and CQC hereby certify that the organization

Shandong 100Tong Pipeline System Co.,Ltd

Has implemented and maintains a Management System Which fulfils the requirements of the following standard

ISO9001:2008

Issued on: Dec. 27, 2012
Validity date: Dec. 26, 2015
Registration Number: 00112Q21390AR0M/3600



QUALITY MANAGEMENT SYSTEM CERTIFICATE

Weifang 100tong Casting Co., Ltd.

Quality Management System

ISO9001: 2008

GB/T 19001-2008

CHINA QUALITY CERTIFICATION CENTRE



Product Liability Insurance Policy

(Original)



Schedule

Insured	Weifang 100Tong Casting Co.Ltd
Address	No.1919 South of Jichang Road,Weicheng District,Weifang City, Shandong Province,China
Business	Machinery Manufacturing
Insured Period	From 00:00 May 04,00, 2012 to 24:00 May 03(24), 2013
Product	Ductile iron grooved fittings and couplings
For Sales	USD1,700,000.00
Sales Area	Worldwide (including USA & Canada,excluding mainland China)
Policy Form	Claims-made basis Retroactive Period:5 month
Limit of Liability	US$2,000,000.00 any one occurrence &US$2,000,000.00 in annual aggregate during the period of insurance
Absolute Deductible	US$ 5,000.00 per occurrence
Territorial Limit / Jurisdiction	Worldwide (including USA & Canada)
Rate	0.294127%
Minimum Earned Deposit Premium	US$5,000.00
Special Provision	1. Broad Form Vendors Liability Coverage 2. Batch Clause 3. Lead Exclusion 4. Pollution Exclusion - Total 5. Total Asbestos Exclusion Clause 6. Efficacy Risks Exclusion 7. Costs Inclusive to Limit of Liability and Subject to Self Insured Retention 8. Approved Adjusters Clause 9. 30 Days' Notice of Cancellation Clause

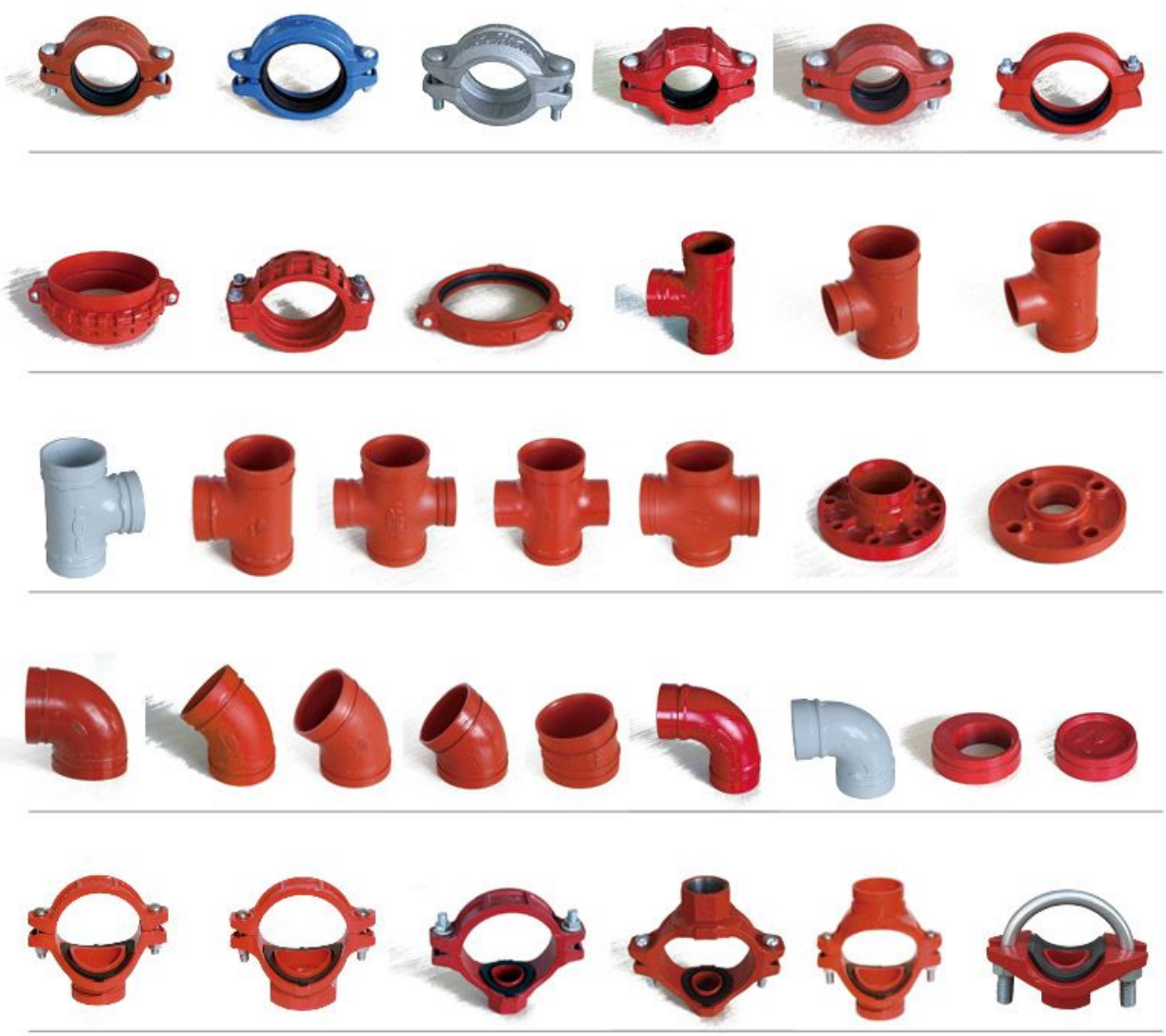


Remarks	10	Worldwide Jurisdiction Clause
	11	Products Recall - Guarantee Exclusion
	12	Premium Adjustment Clause
	1	This insurance policy must not be used for any promotion or advertisement
	2	When loss or damage within the risks covered occurs, the insured should offer sales report of last year. If the insurance sales volume of the insurance policy is under insurance, the insured could claim for the compensation according to the rate of the insured amount and the actual sales volume.

100Tong ducitle iron casting conforming to ASTM A536 65–45–12 equal to QT450–12.

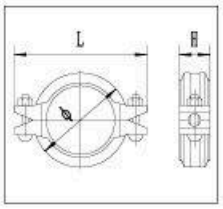
Coating: 1.painting 2.epoxy 3.dacromet 4.galvanized

Color: 1.Red 2.Blue 3.White 4.Orange



Rigid Coupling

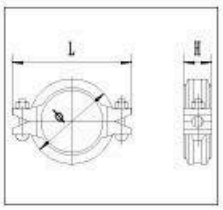




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions mm/in		
			No.–Size mm	ø	L	H
25 1	33.7 1.327	500 3.45	2–M10x45	60 2.362	102 4.016	45 1.772
32 1¼	42.4 1.669	500 3.45	2–M10x45	70 2.756	106 4.173	44 1.732
40 1½	48.3 1.900	500 3.45	2–M10x45	73 2.874	108 4.252	44 1.732
50 2	57.0 2.245	500 3.45	2–M10x55	83 3.268	122 4.803	45 1.772
50 2	60.3 2.375	500 3.45	2–M10x55	87 3.425	123 4.843	44 1.732
65 2½	73.0 2.875	500 3.45	2–M10x55	100 3.937	138 5.433	44 1.732
65 2½	76.1 3.000	500 3.45	2–M10x55	103 4.055	142 5.591	45 1.772
80 3	88.9 3.500	500 3.45	2–M12x60	117 4.606	166 6.535	45 1.772
100 4	108.0 4.250	500 3.45	2–M12x65	137 5.393	188 7.401	48 1.889
100 4	114.3 4.500	500 3.45	2–M12x65	139 5.472	190 7.480	49 1.929
125 5	133.0 5.250	400 2.75	2–M12x75	163 6.417	210 8.268	49 1.929
125 5	139.7 5.500	400 2.75	2–M12x75	168 6.614	218 8.583	49 1.929
150 6	159.0 6.250	400 2.75	2–M12x75	192 7.559	242 9.528	49 1.929
150 6	165.1 6.500	400 2.75	2–M12x75	193 7.598	241 9.488	49 1.929
150 6	168.3 6.625	400 2.75	2–M12x75	198.5 7.815	249 9.803	50 1.969
200 8	219.1 8.625	300 2.07	2–M16x85	253 9.961	320 12.598	59 2.323
250 10	273 10.748	300 2.07	2–M22x130	335 13.189	426 16.772	68 2.677
300 12	323.9 12.752	300 2.07	2–M22x130	380 14.96	470 18.504	65 2.559

Flexible Coupling

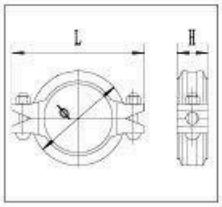




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions mm/in		
			No.–Size mm	ø	L	H
25 1	33.7 1.327	500 3.45	2–M10x45	60 2.362	98 3.858	43.5 1.713
32 1¼	42.4 1.669	500 3.45	2–M10x45	67 2.638	106 4.173	44 1.732
40 1½	48.3 1.900	500 3.45	2–M10x45	73 2.874	108 4.252	44 1.732
50 2	57.0 2.245	500 3.45	2–M10x55	83 3.268	122 4.803	45 1.772
50 2	60.3 2.375	500 3.45	2–M10x55	87 3.425	123 4.843	44 1.732
65 2½	73.0 2.875	500 3.45	2–M10x55	100 3.937	138 5.433	44 1.732
65 2½	76.1 3.000	500 3.45	2–M10x55	103 4.055	142 5.591	45 1.772
80 3	88.9 3.500	500 3.45	2–M12x60	117 4.606	166 6.535	45 1.772
100 4	108.0 4.250	500 3.45	2–M12x65	137 5.393	188 7.401	48 1.889
100 4	114.3 4.500	500 3.45	2–M12x65	139 5.472	190 7.480	49 1.929
125 5	133.0 5.250	400 2.75	2–M12x75	163 6.417	210 8.268	49 1.929
125 5	139.7 5.500	400 2.75	2–M12x75	168 6.614	218 8.583	49 1.929
150 6	159.0 6.250	400 2.75	2–M12x75	190 7.48	239 9.409	49 1.929
150 6	165.1 6.500	400 2.75	2–M12x75	193 7.598	241 9.488	49 1.929
150 6	168.3 6.625	400 2.75	2–M12x75	198.5 7.815	249 9.803	50 1.969
200 8	219.1 8.625	300 2.07	2–M16x85	253 9.961	320 12.598	59 2.323
250 10	273 10.748	300 2.07	2–M22x130	317 12.48	401 15.787	63 2.48
300 12	323.9 12.752	300 2.07	2–M22x130	375 14.764	455 17.913	64 2.52
350 14	355.6 14	300 2.07	3–M22x130	418 16.457	508 20	74 2.913
350 14	377 14.843	300 2.07	3–M22x130	441 17.362	535 21.063	78 3.071
400 16	406.4 16	300 2.07	3–M22x130	467 18.386	567 22.323	78 3.071
400 16	425.5 16.752	300 2.07	2–M22x130	486 19.134	580 22.835	78 3.071

Shouldered Coupling

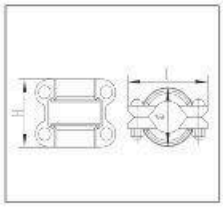




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions mm/in		
			No.–Size mm	ø	L	H
50 2	60.3 2.375	300 2.07	2–M12x60	97 3.957	132 5.197	48 1.89
80 3	88.9 3.500	300 2.07	2–M12x75	125 4.921	170 6.692	48 1.89
100 4	114.3 4.500	300 2.07	2–M12x75	157 6.181	205 8.070	52 2.047
150 6	165.1 6.500	300 2.07	2–M16x85	213 8.386	272 10.708	52 2.047
200 8	219.1 8.625	300 2.07	2–M20x100	278 10.945	345 13.583	60 2.362
250 10	273 10.748	300 2.07	2–M22x130	340 13.38	415 16.339	64 2.52
300 12	323.9 12.752	300 2.07	2–M22x130	387 15.236	474 18.661	64 2.52
350 14	377 14.843	300 2.07	2–M22x130	438 17.244	518 20.394	76 2.992
400 16	425.5 16.752	300 2.07	2–M30x140	506 19.921	605 23.819	76 2.992

HDPE Coupling

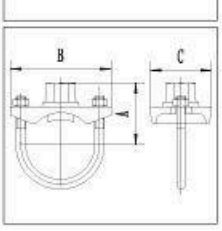




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions mm/in		
			No. –Size mm	ø	L	H
50 2	60.3 2.375	300 2.07	4–M12x60	83 3.268	120 4.724	116 4.567
	63 2.48	300 2.07	4–M10x55	89 3.504	116 4.567	105 4.134
	110 4.33	300 2.07	4–M12x75	137 5.394	180 7.087	110 4.331
	160 6.299	300 2.07	4–M12x75	188 7.402	235 9.252	118 4.646
150 6	168.3 6.626	300 2.07	4–M16x85	202 7.953	252 9.921	150 5.906
200 8	219.1 8.626	300 2.07	4–M16X85	258 10.157	320 12.598	152 5.984
	252 9.921	300 2.07	4–M16x100	288 11.339	350 13.780	141 5.551
250 10	273 10.748	300 2.07	4–M20x100	313 12.323	390 15.354	165 6.496

U–Bolted Mechanical Tee Threaded

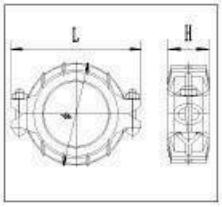




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	U Bolt Size	Dimensions mm/in			Hole cuting dimensions mm/in
			NO.–Sizemm	A	B	C	
25x15 1x1/2	33.7x21.3 1.327x0.839	300 2.07	M10x25	49 1.929	76 2.992	43 1.654	24 0.945
25x20 1x3/4	33.7x26.9 1.327x1.059	300 2.07	M10x25	58 2.283	84 3.307	43 1.693	24 0.945
32x15 1 1/4x1/2	42.4x21.3 1.669x0.839	300 2.07	M10x28.5	43 1.693	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	45 1.772	90 3.543	56 2.205	30 1.181
32x25 1 1/4x1	42.4x33.7 1.669x1.327	300 2.07	M10x28.5	50 1.969	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	43 1.693	93 3.661	59 2.323	30 1.181
40x20 1 1/2x3/4	48.3x26.9 1.900x1.059	300 2.07	M10x28.5	54 2.126	93 3.661	59 2.323	30 1.181
40x25 1 1/2x1	48.3x33.7 1.900x1.327	300 2.07	M10x28.5	58 2.283	93 3.661	59 2.323	30 1.181
50x15 2x1/2	60.3x21.3 2.375x0.839	300 2.07	M10x30	54 2.126	96 3.780	59 2.323	30 1.181
50x20 2x3/4	60.3x26.9 2.375x1.059	300 2.07	M10x30	56 2.205	96 3.780	59 2.323	30 1.181
50x25 2x1	60.3x33.7 2.375x1.327	300 2.07	M10x30	66 2.598	96 3.780	59 2.323	30 1.181
65x15	73.1x21.3 2.878x0.839	300 2.07	M10x30	60 2.362	110 4.331	59 2.323	30 1.181
65x20	73.1x26.9 2.878x1.059	300 2.07	M10x30	63 2.480	110 4.331	59 2.323	30 1.181
65x25	73.1x33.7 2.878.x1.327	300 2.07	M10x30	70 2.756	110 4.331	59 2.323	30 1.181
65x15	76.1x21.3 2.996x0.839	300 2.07	M10x30	61 2.402	110 4.331	59 2.323	30 1.181
65x20	76.1x26.9 2.996x1.059	300 2.07	M10x30	67 2.638	110 4.331	59 2.323	30 1.181
65x25	76.1x33.7 2.847x1.327	300 2.07	M10x30	74 2.913	110 4.331	59 2.323	30 1.181

Reducing Flexible Coupling

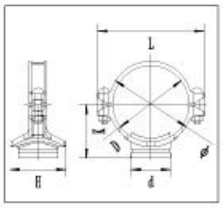




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions mm/in		
			No.–Size mm	ø	L	H
50x32 2x1¼	60.3x42.4 2.375x1.669	300 2.07	2–M10x55	90 3.543	129 5.079	47 1.850
50x40 2x1½	60.3x48.3 2.375x1.900	300 2.07	2–M10x55	90 3.543	129 5.079	47 1.850
65x40 2½x1½	73.0x48.3 2.874x1.900	300 2.07	2–M10x55	101 3.976	137 5.394	48 1.890
65x50 2½x2	73.0x60.3 2.874x2.375	300 2.07	2–M10x55	101 3.976	137 5.394	48 1.890
65x40 2½x1½	76.1x48.3 2.996x1.900	300 2.07	2–M10x55	105 4.134	140 5.512	48 1.890
65x50 2x2	76.1x60.3 2.996x2.375	300 2.07	2–M10x55	105 4.134	140 5.512	48 1.890
80x50 3x2	88.9x60.3 3.500x2.375	300 2.07	2–M12x65	120 4.724	164 6.457	48 1.890
80x65 3x2½	88.9x73.0 3.500x2.874	300 2.07	2–M12x65	120 4.724	164 6.457	48 1.890
80x65 3x2½	88.9x76.1 3.500x2.996	300 2.07	2–M12x65	120 4.724	164 6.457	48 1.890
100x40 4x1½	114.3x48.3 4.500x1.900	300 2.07	2–M12x65	150 5.906	195 7.677	49 1.929
100x50 4x2	114.3x60.3 4.500x2.375	300 2.07	2–M12x65	150 5.906	195 7.677	49 1.929
100x65 4x2½	114.3x76.1 4.500x2.996	300 2.07	2–M12x65	150 5.906	195 7.677	49 1.929
100x80 4x3	114.3x88.9 4.500x3.500	300 2.07	2–M12x65	150 5.906	195 7.677	49 1.929
125x50 5x2	139.7x60.3 5.500x2.375	300 2.07	2–M12x65	177 6.969	222 8.740	48.5 1.909
125x65 5x2½	139.7x76.1 5.500x2.996	300 2.07	2–M12x65	177 6.969	222 8.740	48.5 1.909
125x80 5x3	139.7x88.9 5.500x3.500	300 2.07	2–M12x65	177 6.969	222 8.740	48.5 1.909
125x100 5x4	139.7x114.3 5.500x4.500	300 2.07	2–M12x65	177 6.969	222 8.740	48.5 1.909
150x65 6x2½	165.1x76.1 6.500x2.996	300 2.07	2–M12x75	203 7.992	235 9.252	50 1.969
150x80 6x3	165.1x88.9 6.500x3.500	300 2.07	2–M12x75	203 7.992	235 9.252	50 1.969
150x100 6x4	165.1x114.3 6.500x4.500	300 2.07	2–M12x75	203 7.992	235 9.252	50 1.969
150x65 6x2½	168.3x76.1 6.625x2.996	300 2.07	2–M12x75	203 7.992	235 9.252	50 1.969
150x80 6x3	168.3x88.9 6.625x3.500	300 2.07	2–M12x75	203 7.992	235 9.252	50 1.969
150x100 6x4	168.3x114.3 6.625x4.500	300 2.07	2–M12x75	203 7.992	235 9.252	50 1.969
150x125 6x5	168.3x139.7 6.625x5.500	300 2.07	2–M12x75	203 7.992	235 9.252	50 1.969
200x65 8x2½	219.1x76.1 8.625x2.996	300 2.07	2–M16x100	264 10.394	313 12.323	60 2.362
200x80 8x3	219.1x88.9 8.625x3.500	300 2.07	2–M16x100	264 10.394	313 12.323	60 2.362
200x100 8x4	219.1x114.3 8.625x4.500	300 2.07	2–M16x100	264 10.394	313 12.323	60 2.362
200x125 8x5	219.1x139.7 8.625x5.500	300 2.07	2–M16x100	264 10.394	313 12.323	60 2.362
200x150 8x2½	219.1x165.1 8.625x6.500	300 2.07	2–M16x100	264 10.394	313 12.323	60 2.362
200x150 8x6	219.1x168.3 8.625x6.625	300 2.07	2–M16x100	264 10.394	313 12.323	60 2.362

Mechanical Tee Grooved

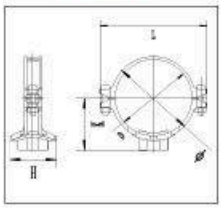




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions mm/in				Hole cuting dimensions
			No.–Size mm	Ø	L	K	H	mm/in
50X32 2x1¼	60.3X42.4 2.375X1.669	300 2.07	2–M10X55	74 2.913	116 4.566	59 2.322	69 2.716	46 1.811
50X40 2x1½	60.3X48.3 2.375X1.900	300 2.07		78 3.07	116 4.566	59 2.322	69 2.716	46 1.811
65x25 2½x1	73x33.7 2.87x1.327	300 2.07		93 3.661	144 5.669	70 2.755	77 2.716	38 1.496
65X32 2½x1¼	73x42.4 2.87x1.669	300 2.07		93 3.661	144 5.669	70 2.755	84 3.307	46 1.811
65X40 2½x1½	73x48.3 2.87x1.900	300 2.07		93 3.661	144 2.669	70 2.755	83 3.267	51 2.007
65X25 2½x1	76.1X33.7 2.996X1.327	300 2.07		93 3.661	144 5.669	70 2.755	77 2.716	38 1.496
65X32 2½x1¼	76.1X42.4 2.996X1.669	300 2.07		93 3.661	144 5.669	70 2.755	84 3.307	46 1.811
65X40 2½x1½	76.1X48.3 2.996X1.900	300 2.07		93 3.661	144 5.669	70 2.755	83 3.267	51 2.007
80X25 3X1	88.9X33.7 3.500X1.327	300 2.07		104 4.094	152 5.984	76 2.755	78 3.070	38 1.496
80X32 3X1¼	88.9X42.4 3.500X1.669	300 2.07		104 4.094	152 5.984	76 2.755	82 3.228	46 1.811
80X40 3X1½	88.9X48.3 3.500X1.900	300 2.07	2–M12X65	104 4.094	152 5.984	77 2.755	91 3.582	51 2.007
80X50 3X2	88.9X60.3 3.500X2.375	300 2.07		114 4.488	152 5.984	82 3.228	97 2.402	61 2.402
100X25 4X1	114.3X33.7 4.500X1.327	300 2.07		133 5.236	188 7.401	93 3.661	77 3.031	35 1.496
100X32 4X1¼	114.3X42.4 4.500X1.669	300 2.07		133 5.236	186 7.322	93 3.661	83 3.267	46 1.811
100X40 4X1½	114.3X48.3 4.500X1.900	300 2.07		133 5.236	186 7.322	93 3.661	92 3.622	51 2.007
100X50 4X2	114.3X60.3 4.500X2.375	300 2.07		140 5.512	188 7.402	93 3.661	97 3.819	61 2.402
100X65 4x2½	114.3X76.1 4.500X2.996	300 2.07		140 5.512	188 7.402	93 3.661	112 4.409	81 3.189
100X80 4X3	114.3X88.9 4.500X3.500	300 2.07		140 5.512	188 7.402	93 3.661	122 4.803	86 3.386
125X50	139.7X60.3 5.500X2.375	300 2.07		168 6.614	220 8.661	107 4.213	97 3.819	61 2.402
125X65	139.7X76.1 5.500X2.996	300 2.07	2–M16X75	168 6.614	220 8.661	107 4.213	112 4.409	81 3.189
125X80	139.7X88.9 5.500X3.500	300 2.07		168 6.614	220 8.661	107 4.213	122 4.803	86 3.386
150X65	159.0X76.1 6.260X2.996	300 2.07		168 6.614	220 8.661	107 4.213	112 4.409	81 3.189
150X80	159.0X88.9 6.260X3.500	300 2.07		187 7.362	242 9.528	117 4.606	122 4.803	86 3.386
150X100	159.0X108.0 6.260X4.252	300 2.07		187 7.362	242 9.528	117 4.606	134 5.276	114 4.488
150X100	159.0X114.3 6.260X4.500	300 2.07		187 7.362	242 9.528	117 4.606	134 5.276	114 4.488
150X50	165.1X60.3 6.500X2.375	300 2.07		194 7.638	247 9.724	125 4.921	97 3.819	61 2.402
150X65	165.1X76.1 6.500X2.996	300 2.07	2–M16X85	194 7.638	247 9.724	125 4.921	112 4.409	81 3.189
150X80	165.1X88.9 6.500X3.500	300 2.07		194 7.638	247 9.724	125 4.921	122 4.803	86 3.386
150x100	165.1X114.3 6.500X4.500	300 2.07		194 7.638	247 9.724	125 4.921	134 5.276	114 4.488
150X32 6x1¼	168.3X42.4 6.625X1.669	300 2.07		198 7.795	247 9.724	128 5.039	82 3.228	46 1.811
150X40 6x1½	168.3X48.3 6.625X1.900	300 2.07		198 7.795	247 9.724	128 5.039	92 3.622	51 2.007
150X50 6X2	168.3x60.3 6.625x2.375	300 2.07		198 7.795	247 9.724	128 5.039	98 3.858	61 2.401
150X65 6x2½	168.3X76.1 6.625x2.996	300 2.07		198 7.795	247 9.724	128 5.039	121 4.763	82 3.228
150X80 6X3	168.3x88.9 6.625x3.500	300 2.07		198 7.795	247 9.724	128 5.039	134 5.275	86 3.385
150X100 6X4	168.3x114.3 6.625x4.500	300 2.07		198 7.795	247 9.724	128 5.039	157 6.181	114 4.488
200X50 8x2	219.1x60.3 8.625X2.375	300 2.07		250 9.843	310 12.205	146 5.748	97 3.819	61 2.402
200X65 8x2½	219.1x76.1 8.625x2.996	300 2.07		250 9.843	310 12.205	146 5.748	112 4.409	81 3.189
200X80 8X3	219.1x88.9 8.625X3.500	300 2.07	2–M16X100	250 9.843	310 12.205	146 5.748	122 4.803	86 3.386
200X100 8X4	219.1x108.0 8.625X4.250	300 2.07		250 9.843	310 12.205	146 5.748	134 5.276	114 4.488
200X100 8X4	219.1x114.3 8.625X4.500	300 2.07		250 9.843	310 12.205	146 5.748	134 5.276	114 4.488
200X150 8X6	219.1x165.1 8.625x6.500	300 2.07		309 12.165	376 14.803	174 6.850	214 8.425	160 6.299
250X100 10X4	273.0x114.3 10.748x4.500	300 2.07	2–M22x130	309 12.165	376 14.803	174 6.850	134 5.276	114 4.488
250X125 8X6	273.0X139.7 10.748X5.500	300 2.07		309 12.165	376 14.803	174 6.850	186 7.323	135 5.315

Mechanical Tee Threaded

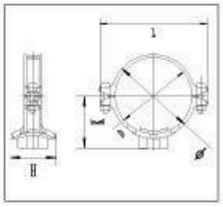




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions mm/in				Hole cuting dimensions
			No.-Size mm	Ø	L	K	H	mm/in
40X25 1½X1	48.3X33.7 1.900X1.327	300 2.07	2-M10X45	67 2.637	112 4.409	56 2.204	61 2.401	32 1.259
50X25 2X1	60.3x33.7 2.375X1.327	300 2.07		75 2.953	116 4.567	60 2.362	69 2.717	38 1.496
50X32 2X1¼	60.3x42.4 2.375X1.669	300 2.07	2-M10X55	75 2.953	116 4.567	60 2.362	69 2.717	46 1.811
50X40 2X1½	60.3x48.3 2.375X1.900	300 2.07		75 2.953	116 4.567	60 2.362	69 2.717	46 1.811
65x32 2½x1¼	73x42.4 2.87x1.669	300 2.07		93 3.661	144 5.669	70 2.755	84 3.307	46 1.811
65x40 2½x1¼	73x48.3 2.87x1.900	300 2.07		93 3.661	144 5.669	70 2.755	83 3.267	51 2.007
65X25 2½x1	76.1X33.7 2.996X1.327	300 2.07		102 4.016	144 5.669	70 2.756	77 3.031	38 1.496
65X32 2½x1¼	76.1X42.4 2.996X1.669	300 2.07		102 4.016	144 5.669	70 2.756	83 3.268	46 1.811
65X40 2½x1½	76.1X48.3 2.996X1.900	300 2.07		102 4.016	144 5.669	70 2.756	83 3.268	51 2.008
80X25 3X1	88.9X33.7 3.500X1.327	300 2.07		114 4.488	152 5.984	82 3.228	77 3.031	38 1.496
80X32 3X1¼	88.9X42.4 3.500X1.669	300 2.07		114 4.488	152 5.984	82 3.228	83 3.268	46 1.811
80X40 3X1½	88.9X48.3 3.500X1.900	300 2.07		114 4.488	152 5.984	82 3.228	92 3.622	51 2.008
80X50 3X2	88.9X60.3 3.500X2.375	300 2.07		114 4.488	152 5.984	82 3.228	99 3.898	61 2.402
100X25 4x1	108.0X33.7 4.252X1.327	300 2.07		135 5.315	172 6.772	87 3.425	77 3.031	38 1.496
100X32 4X1¼	108.0X42.4 4.252X1.669	300 2.07	2-M12X65	135 5.315	172 6.772	87 3.425	83 3.268	46 1.811
100X40 4X1½	108.0X48.3 4.252X1.900	300 2.07		135 5.315	172 6.772	87 3.425	92 3.622	51 2.008
100X50 4x2	108.0X60.3 4.252X2.375	300 2.07		135 5.315	172 6.772	87 3.425	97 3.819	61 2.402
100X65 4x2½	108.0X76.1 4.252X2.996	300 2.07		135 5.315	172 6.772	87 3.425	112 4.409	70 2.756
100X25 4X1	114.3X33.7 4.500X1.327	300 2.07		140 5.512	188 7.402	93 3.661	77 3.031	38 1.496
100X32 4X1¼	114.3x42.4 4.500X1.669	300 2.07		140 5.512	188 7.402	93 3.661	83 3.268	46 1.811
100X40 4X1½	114.3x48.3 4.500X1.900	300 2.07		140 5.512	188 7.402	93 3.661	92 3.622	51 2.008
100X50 4X2	114.3x60.3 4.500x2.375	300 2.07		140 5.512	188 7.402	93 3.661	97 3.819	61 2.402
100X65	114.3x76.1 4.500x2.996	300 2.07		140 5.512	188 7.402	93 3.661	112 4.409	81 3.189
100X80 4X3	114.3x88.9 4.500x3.500	300 2.07		140 5.512	188 7.402	93 3.661	122 4.803	86 3.386
125X25	133.0X33.7 5.236X1.327	300 2.07		160 6.299	210 8.268	100 3.937	77 3.031	38 1.496
125X32	133.0X42.4 5.236X1.669	300 2.07		160 6.299	210 8.268	100 3.937	83 3.268	46 1.811
125X40	133.0x48.3 5.236x1.900	300 2.07		160 6.299	210 8.268	100 3.937	92 3.622	51 2.008
125X50	133.0x60.3 5.236x2.375	300 2.07		160 6.299	210 8.268	100 3.937	97 3.819	61 2.402
125X65	133.0x76.1 5.236x2.996	300 2.07	2-M16X75	160 6.299	210 8.268	100 3.937	112 4.409	81 3.189
125X80	133.0x88.9 5.236X3.500	300 2.07		160 6.299	210 8.268	100 3.937	122 4.803	86 3.386
125X25	139.7X33.7 5.500X1.327	300 2.07		168 6.614	220 8.661	107 4.213	77 3.031	38 1.496
125X32	139.7x42.4 5.500x1.669	300 2.07		168 6.614	220 8.661	107 4.213	83 3.268	46 1.811
125X40	139.7x48.3 5.500x1.900	300 2.07		168 6.614	220 8.661	107 4.213	92 3.622	51 2.008
125X50	139.7x60.3 5.500X2.375	300 2.07		168 6.614	220 8.661	107 4.213	97 3.819	61 2.402

Mechanical Tee Threaded

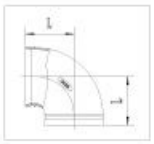




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions mm/in				Hole cuting dimensions
			No.-Size mm	Ø	L	K	H	mm/in
125X65	139.7X76.1 5.500X2.996	300 2.07	2-M16X75	168 6.614	220 8.661	107 4.213	112 4.409	81 3.189
125X80	139.7X88.9 5.500X3.500	300 2.07		168 6.614	220 8.661	107 4.213	122 4.803	86 3.386
150X25	159.0X33.7 6.260X1.327	300 2.07		187 7.362	242 9.528	117 4.606	77 3.031	38 1.496
150X32	159.0X42.4 6.260X1.669	300 2.07		187 7.362	242 9.528	117 4.606	83 3.268	46 1.811
150X40	159.0X48.3 6.260X1.900	300 2.07		187 7.362	242 9.528	117 4.606	92 3.622	51 2.008
150X50	159.0X60.3 6.260X2.375	300 2.07		187 7.362	242 9.528	117 4.606	97 3.819	61 2.402
150x65	159.0X76.1 6.260X2.996	300 2.07		187 7.362	242 9.528	117 4.606	112 4.409	81 3.189
150x80	159.0X88.9 6.260X3.500	300 2.07		187 7.362	242 9.528	117 4.606	122 4.803	86 3.386
150x25	165.1X33.7 6.500X1.327	300 2.07		194 7.638	247 9.724	125 4.921	77 3.031	38 1.496
150X32	165.1X42.4 6.500X1.669	300 2.07		194 7.638	247 9.724	125 4.921	83 3.268	46 1.811
150x40	165.1X48.3 6.500X1.900	300 2.07		194 7.638	247 9.724	125 4.921	92 3.622	51 2.008
150x50	165.1X60.3 6.500X2.375	300 2.07	2-M16X85	194 7.638	247 9.724	125 4.921	97 3.819	61 2.402
150X65	165.1X76.1 6.500X2.996	300 2.07		194 7.638	247 9.724	125 4.921	112 4.409	81 3.189
150x80	165.1X88.9 6.500X3.500	300 2.07		194 7.638	247 9.724	125 4.921	122 4.803	86 3.386
150X100	165.1X114.3 6.500X4.500	300 2.07		194 7.638	247 9.724	125 4.921	134 5.276	114 4.488
150X25 6X1	168.3X33.7 6.625X1.327	300 2.07		198 7.795	247 9.724	120	77 3.031	38 1.496
150X32 6X1¼	168.3X42.4 6.625x1 669	300 2.07		198 7.795	247 9.724	120 4.724	82 3.228	46 1.811
150X40 6X1½	168.3X48.3 6.625X1.900	300 2.07		198 7.795	247 9.724	120 4.724	92 3.622	51 2.007
150X50 6X2	168.3X60.3 6.625X2.375	300 2.07		198 7.795	247 9.724	120 4.724	98 3.858	61 2.401
150X65	168.3X76.1 6.625X2.996	300 2.07		198 7.795	247 9.724	120 4.724	121 4.763	82 3.228
150X80 6X3	168.3X88.9 6.625X3.500	300 2.07		198 7.795	247 9.724	120 4.724	134 5.275	86 3.385
200X25 8X1	219.1X33.7 8.625x1.327	300 2.07		250 9.843	310 12.205	146 5.748	77 3.031	46 1.811
200X32 8X1¼	219.1x42.4 8.625x1.669	300 2.07		250 9.843	310 12.205	146 5.748	83 3.268	46 1.811
200X40 8X1½	219.1x48.3 8.625x1.900	300 2.07		250 9.843	310 12.205	146 5.748	92 3.622	51 2.008
200X50 8x2	219.1X60.3 8.625X2.375	300 2.07	2-M16X100	250 9.843	310 12.205	146 5.748	97 3.819	61 2.402
200X65	219.1X76.1 8.625X2.996	300 2.07		250 9.843	310 12.205	146 5.748	112 4.409	81 3.189
200X80 8X3	219.1X88.9 8.625X3.500	300 2.07		250 9.843	310 12.205	146 5.748	122 4.803	86 3.386
200x100 8X4	219.1X114.3 8.625X4.500	300 2.07		250 9.843	310 12.205	146 5.748	134 5.276	114 4.488
250X40 10X1½	273.0X48.3 10.748x1.900	300 2.07		309 9.843	376 12.205	174 5.748	92 3.622	51 2.008
250X50 10X2	273.0X60.3 10.748X2.375	300 2.07		309 9.843	376 12.205	174 5.748	97 3.819	61 2.402
250X65	273.0X76.1 10.748X2.996	300 2.07	2-M22X130	309 9.843	376 12.205	174 5.748	112 4.409	81 3.189
250X80 10X3	273.0X88.9 10.748 X3.500	300 2.07		309 9.843	376 12.205	174 5.748	122 4.803	86 3.386
250X100 10X4	273.0X114.3 10.748X4.500	300 2.07		309 9.843	376 12.205	174 5.748	134 5.276	114 4.488
250X125 8X6	273.0X139.7 10.748X5.500	300 2.07		309 12.165	376 14.803	174 6.850	186 7.323	135 5.315

90° Elbow





45° Elbow





22.5° Elbow





11.25° Elbow

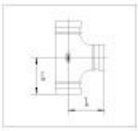




Size	Pipe O.D.	90° Elbow		45° Elbow	22.5° Elbow	11.25° Elbow
		Standard	Short		Standard	
		L	L	L	L	L
DN	mm	mm	mm	mm	mm	mm
in	in	in	in	in	in	in
25	33.7	57	57	38	41	35
1	1.315	2.24	2.244	1.496	1.61	1.377
32	42.4	70	60	44	44	35
1¼	1.660	2.755	2.362	1.732	1.732	1.377
40	48.3	70	60	44	44	35
1½	1.900	2.755	2.362	1.732	1.732	1.377
50	57.0	83	70	51	51	35
	2.244	3.267	2.755	2.007	2	1.377
50	60.3	83	70	51	51	35
2	2.375	3.267	2.755	2.007	2	1.377
65	73.0	95	76	57	51	38
2½	2.875	3.74	2.992	2.007	2	1.496
65	76.1	95	76	57	51	38
	3.000	3.74	2.992	2.007	2	1.496
80	88.9	108	86	64	57	38
3	3.500	4.251	3.386	2.519	2.244	1.496
100	108.0	127	101.5	76	73	44
	4.252	5	3.996	2.992	2.874	1.732
100	114.3	127	101.5	76	73	48
4	4.500	5	3.996	2.992	2.874	1.889
125	133.0	140	122	83	73	51
	5.250	5.511	4.803	3.267	2.874	2.007
125	139.7	140	122	83	73	51
	5.500	5.511	4.803	3.267	2.874	2.007
150	159.0	165	140	89	79	51
	6.260	6.496	5.511	3.503	3.11	2.007
150	165.1	165	140	89	79	51
	6.500	6.496	5.511	3.503	3.11	2.007
150	168.3	165	140	89	79	51
6	6.625	6.496	5.511	3.503	3.11	2.007
200	219.1	197	175	108	98	51
8	8.625	7.755	6.889	4.251	3.858	2.007
250	273.0	229	215	121	111	54
10	10.750	9.015	8.464	4.763	4.37	2.125
300	323.9	254	245	133	124	57
12	12.750	10	9.645	5.236	4.88	2.244
350	377.0	280	280	146	127	89
	14.843	11.024	11.024	5.748	5	3.503

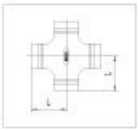
Tee





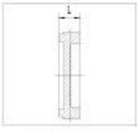
Cross





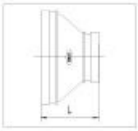
Cap





Reducer (grooved)





Reducer (threaded)

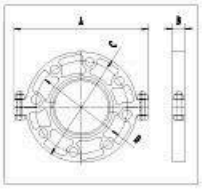




Size	Pipe O.D.	Tee		Cross	Ecceatric Cap	Cap	Reducer grooved	Reducer threaded	Eccentric Reducer
		Standard	Short	Standard					
		L	L	L	L	L	L	L	L
DN	mm	mm	mm	mm	mm	mm	mm	mm	mm
in	in	in	in	in	in	in	in	in	in
25	33.7	57	57	57	25	25	64	64	64
1	1.315	2.244	2.244	2.244	0.99	0.99	2.519	2.519	2.519
32	42.4	70	60	60	25	25	64	64	64
1¼	1.660	2.755	2.362	2.362	0.99	0.99	2.519	2.519	2.519
40	48.3	70	60	60	25	25	64	64	64
1½	1.900	2.755	2.362	2.362	0.99	0.99	2.519	2.519	2.519
50	57.0	83	70	70	25	25	64	64	64
	2.244	3.267	2.755	2.775	0.99	0.99	2.519	2.519	2.519
50	60.3	83	70	70	25	25	64	64	64
2	2.375	3.267	2.755	2.755	0.99	0.99	2.519	2.519	2.519
65	73.0	95	76	76	25	25	64	64	64
2½	2.875	3.74	2.992	2.992	0.99	0.99	2.519	2.519	2.519
65	76.1	95	76	76	25	25	64	64	64
	3.000	3.74	2.992	2.992	0.99	0.99	2.519	2.519	2.519
80	88.9	108	86	86	25	25	64	64	64
3	3.500	4.251	3.386	3.326	0.99	0.99	2.519	2.519	2.519
100	108.0	127	101.5	101.5	25	25	76	76	76
	4.252	5	3.996	3.996	0.99	0.99	2.99	2.99	2.99
100	114.3	127	101.5	101.5	25	25	76	76	76
4	4.500	5	3.996	3.996	0.99	0.99	2.99	2.99	2.99
125	133.0	140	122	122	25	25	89	89	89
	5.250	5.511	4.803	4.803	0.99	0.99	3.504	3.504	3.504
125	139.7	140	122	122	25	25	89	89	89
5	5.500	5.511	4.803	4.803	0.99	0.99	3.504	3.504	3.504
150	159.0	165	140	140	25	25	102	102	102
	6.260	6.496	5.511	5.511	0.99	0.99	4.015	4.015	4.015
150	165.1	165	140	140	25	25	102	102	102
	6.500	6.496	5.511	5.511	0.99	0.99	4.015	4.015	4.015
150	168.3	165	140	140	25	25	102	102	102
6	6.625	6.496	5.511	5.511	0.99	0.99	4.015	4.015	4.015
200	219.1	197	175	175	30	30	127	127	127
8	8.625	7.755	6.889	6.889	1.181	1.181	5	5	5
250	273.0	229	215	215	32	32	152		
10	10.750	9.015	8.464	8.464	1.259	1.259	5.98		
300	323.9	254	245	245	32	32	178		
12	12.750	10	9.645	9.645	1.259	1.259	7		
350	377.0	280	280	280	40	40	160		
	14.843	11.024	11.024	11.024	1.575	1.575	6.299		

Grooved Flange

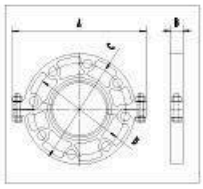




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimensions mm/in				Bolt Size
			A mm/in	B mm/in	C mm/in	D mm/in	No.–Size mm
50 2	60.3 2.375	230 1.6	222 8.740	23 0.906	165 6.496	125 4.921	4–M16
65	76.1 3.000	230 1.6	240 9.448	23 0.906	185 7.283	145 5.708	4–M16
80 3	88.9 3.500	230 1.6	252 9.921	23 0.906	192 7.559	160 6.299	8–M16
100 4	114.3 4.500	230 1.6	248 9.763	23 0.906	220 8.661	180 7.086	8–M16
125	139.7 5.500	230 1.6	316 12.44	24 0.944	250 9.842	210 8.267	8–M16
150 6	168.3 6.625	230 1.6	348 13.622	24 0.944	285 11.22	240 9.448	8–M20
200 8	219.1 8.625	230 1.6	418 16.456	28 1.102	340 13.38	295 11.614	12–M20

Grooved Flange ANSI150

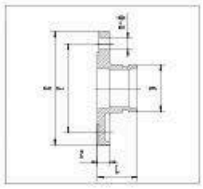




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimensions mm/in				Bolt Size
			A mm/in	B mm/in	C mm/in	D mm/in	No.–Size mm
50 2	60.3 2.375	300 2.07	206 8.110	22 0.866	152 5.984	121 4.763	4–M16
65 2½	73.0 2.875	300 2.07	230 9.055	22 0.866	178 7.007	140 5.511	4–M16
80 3	88.9 3.500	300 2.07	242 9.527	24 0.944	191 7.519	152 5.984	4–M16
100 4	114.3 4.500	300 2.07	280 11.023	24 0.944	229 9.015	191 7.519	4–M16
125 5	141.3 5.563	300 2.07	325 12.795	24.5 0.964	254 10	216 8.503	4–M16
200 8	219.1 8.625	300 2.07	414.3 16.311	28 1.102	341.4 13.44	288.5 11.751	4–M16

Flange Adaptor

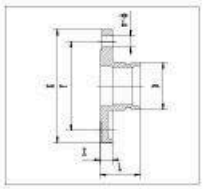




Nominal Size mm/in	Pipe O.D mm/in D	Working Pressure PSI/MPa	Dimensions mm/in				Bolt Size
			L mm/in	X mm/in	Y mm/in	Z mm/in	No.–Size mm
50 2	60.3 2.375	230 1.6	60.3 2.37	165 6.496	125 4.92	16 0.629	4–M16
65 2½	73.0 2.875	230 1.6	60.3 2.37	185 7.283	145 5.70	16 0.629	4–M16
65 2½	76.1 3.000	230 1.6	60.3 2.37	185 7.283	145 5.70	16 0.629	4–M16
80 3	88.9 3.500	230 1.6	60.3 2.37	200 7.874	160 6.29	16 0.629	8–M16
100 4	108.0 4.250	230 1.6	70 2.755	220 8.661	180 7.08	16 0.629	8–M16
100 4	114.3 4.500	230 1.6	70 2.755	220 8.661	180 7.08	16 0.629	8–M16
125 5	133.0 5.250	230 1.6	60.3 2.37	250 9.842	210 8.26	18 0.708	8–M16
125 5	139.7 5.500	230 1.6	60.3 2.37	250 9.842	210 8.26	18 0.708	8–M16
150 6	159.0 6.250	230 1.6	70 2.755	285 11.22	240 9.448	18 0.708	8–M20
150 6	165.1 6.500	230 1.6	70 2.755	285 11.22	240 9.448	18 0.708	8–M20
150 6	168.3 6.625	230 1.6	70 2.755	285 11.22	240 9.448	18 0.708	8–M20
200 8	219.1 8.625	230 1.6	76.1 2.99	340 13.38	295 11.61	19 0.748	12–M20
250 10	273.0 10.750	230 1.6	85 3.346	406 15.944	355 13.97	21 0.826	12–M24
300 12	323.9 12.750	230 1.6	90 3.543	460 18.11	410 16.14	24 0.944	12–M24
350 14	377.0 14.843	230 1.6	100 3.937	520 20.47	470 18.50	26 1.02	16–M24

Flange Adaptor ANSI150





Nominal Size mm/in	Pipe O.D mm/in D	Working Pressure PSI/MPa	Dimensions mm/in				Bolt Size
			L mm/in	X mm/in	Y mm/in	Z mm/in	No.–Size mm
50 2	60.3 2.375	300 2.07	60.3 2.37	152 5.98	120.5 4.744	19 0.748	4–M16
65 2½	73.0 2.875	300 2.07	60.3 2.37	178 7.00	139.5 5.693	24 0.944	4–M16
80 3	88.9 3.500	300 2.07	60.3 2.37	190 7.48	152.5 6.00	24 0.944	4–M16
100 4	114.3 4.500	300 2.07	70 2.755	229 9.015	190.5 7.5	24 0.944	4–M16
125 5	141.3 5.562	300 2.07	60.3 2.37	254 10	216 8.503	24 0.944	8–M20
150 6	168.3 6.625	300 2.07	70 2.755	279 10.98	241.5 9.507	25 0.984	8–M20
200 8	219.1 8.625	300 2.07	76.1 2.99	343 13.50	298.5 11.751	29 1.141	8–M20
250 10	273.0 10.750	300 2.07	85 3.346	406 15.98	362 14.251	30 1.181	12–M22
300 12	323.9 12.750	300 2.07	90 3.543	483 19.01	432 17.00	32 1.259	12–M22

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,mineral oil,plant oil,hot water,temperature over 65℃ is not allowed.
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,and its mechanical properties should reach Gr.8.8 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 ϕ33mm to ϕ630mm.

Castings







Valve



If you need more information,please contact us.

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