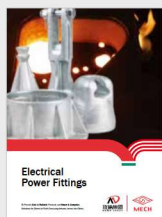
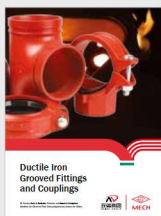
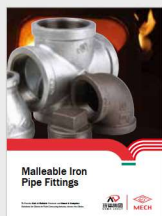


MECH FLOW SUPPLIES



JINAN MEIDE CASTING CO., LTD.

Address: Meide Science & Technology Park,
Industrial Park Pingyin, Jinan, China 250400
Phone: (86)531 87879384 87885036 87885067
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Office : Unit 1203, 12/F, Phase 1, Austin Tower, 22-26A Austin Avenue, TST., Kln., H.K.
寫字樓 : 香港九龍尖沙咀柯士甸路22-26A號好兆年行第一期12樓1203室
電話 : (852) 2967 3999 傳真 : (852) 2818 6890
旺角舖門市 : 九龍旺角上海街687號地下 電話 : (852) 2390 2188
荃灣舖門市 : 新界荃灣德華街18號德範樓地下 電話 : (852) 2882 8281



Office : Unit 1203, 12/F, Phase 1, Austin Tower, 22-26A Austin Avenue, TST., Kln., H.K.
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Malleable Iron Pipe Fittings

BS Standard

To Provide **Safe & Reliable** Products and **Smart & Complete**
Solutions for Clients in Fluid Conveying Industry Across the Globe.



More than 60 years of Foundry Experience

Company Profile

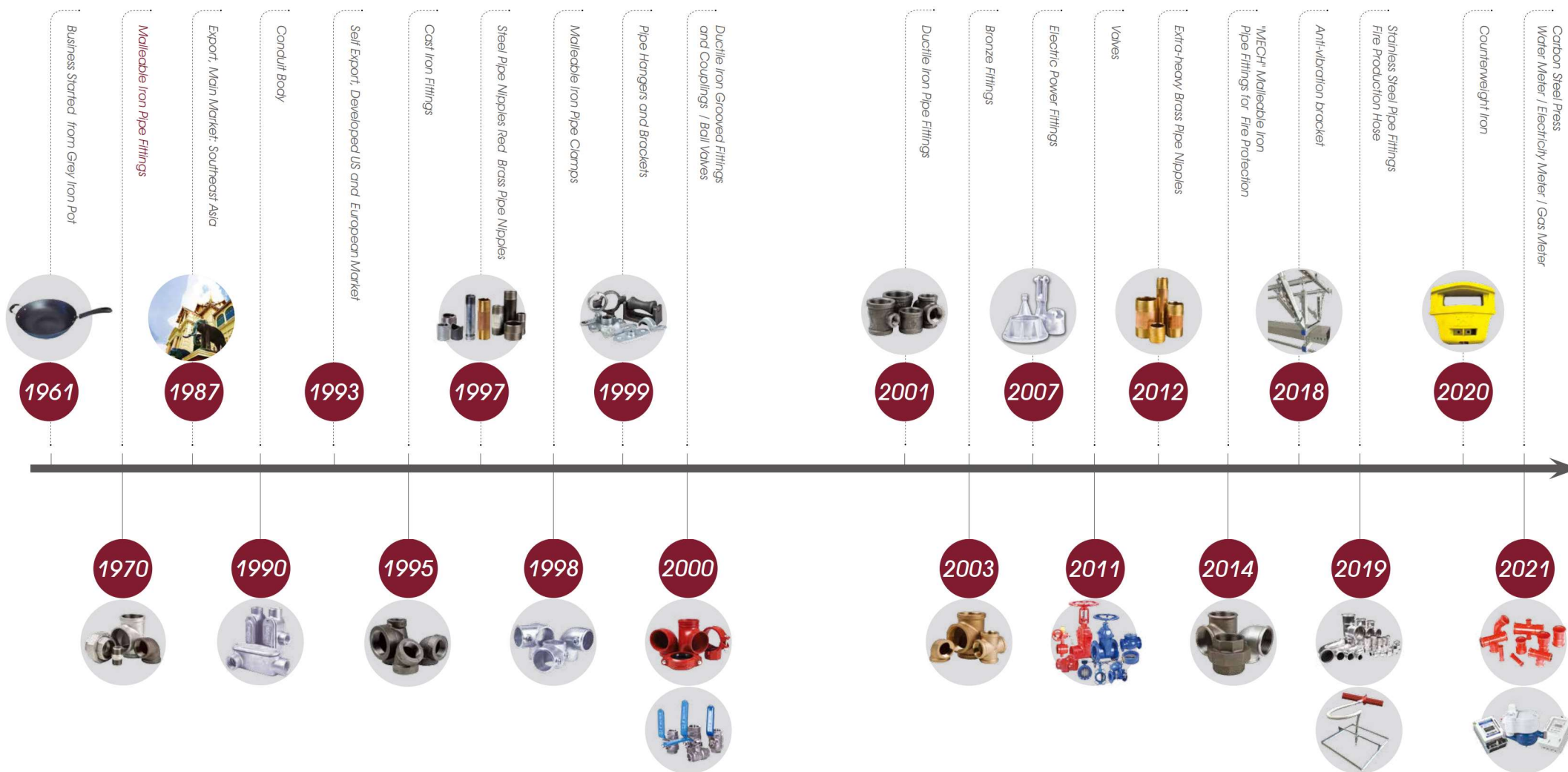
Meide Group is a high-tech enterprise specialized in supplying fittings and valves in fluid industry. The company has won more than 400 great honors, such as Single Champion Demonstration Enterprise, Green Manufacturing Enterprise, China's top 100 Light Industrial Enterprise, China's Leading Enterprise of Malleable Iron Pipe Fitting Production Base, National Enterprise with Good Creditworthiness and China's Famous Brand.

Inheriting the originality, and striving for excellence, "MECH" brand products are widely used in Burj Khalifa, Dubai, new WTC in New York, Shanghai Tower, UHV transmission lines and other landmark buildings and projects such as Beijing-Shanghai high-speed railway. Adhering to the customer-centered product development and innovation concept, to meet and guide the growing needs of users, to provide safe & reliable products and smart & complete solutions for clients in fluid industry across the globe, Meide Group has become the industry leader.

Using development innovation platform such as National Enterprise Technical Center and Post-Doctoral Research Center, Meide Group is promoting the transformation of technology innovation achievements into productive forces, has completed the transformation of production process from mechanization to automation and intelligence, management from experience to institutionalization and process, marketing is from selling products to offering solutions, steadily improve Meide Group's role in the global value chain.

Through the construction of three production bases, including Jinan, Linyi and Bangkok, Meide Group has formed a cross-regional, multi-base international development pattern. Meide Group never forgets the original intention, operates in compliance, keeps growing, insists on sharing development results with customers, employees, shareholders and the community, and strive to be a happy and respectable company.

Company History



State of the Art Equipment

High precision equipment is quality assurance. Jinan Meide's factories are all equipped with the most advanced facilities and equipment in the industry. The main production facilities include Sinto automatic molding line, Tokyu automatic molding line, Chinese 416 automatic vertical molding line, automatic molding sand mixers, cupola furnaces, electric furnaces, water-cooled longevous cupola furnaces, CNC vertical machining centers, CNC machines, NC vertical lathes, radial drills, Jinan Meide proprietary automatic machines, hot-dipped galvanization line, automatic box sealing line, stereoscopic warehouse and so on.



Pattern



Core Making



Sand Mulling



Melting



Sinto FCMX



DISA



Tokyu AMF-111055



Pouring



Annealing



End Grinding Line



Threading, Air Pressure Test, and Anti-rust Treatment



Warehouse

Reliable Quality Assurance

Jinan Meide is honored as the National enterprise technical center and is capable and qualified to conduct full series of tests and inspections including chemical checking, etc.

Inspection facilities include: spectrometer, carbon sulfur analyzer, metallurgical microscope, tensile strength testing equipment, pressure testing equipment, adhesive force testing equipment, CMM, hardness tester, etc.

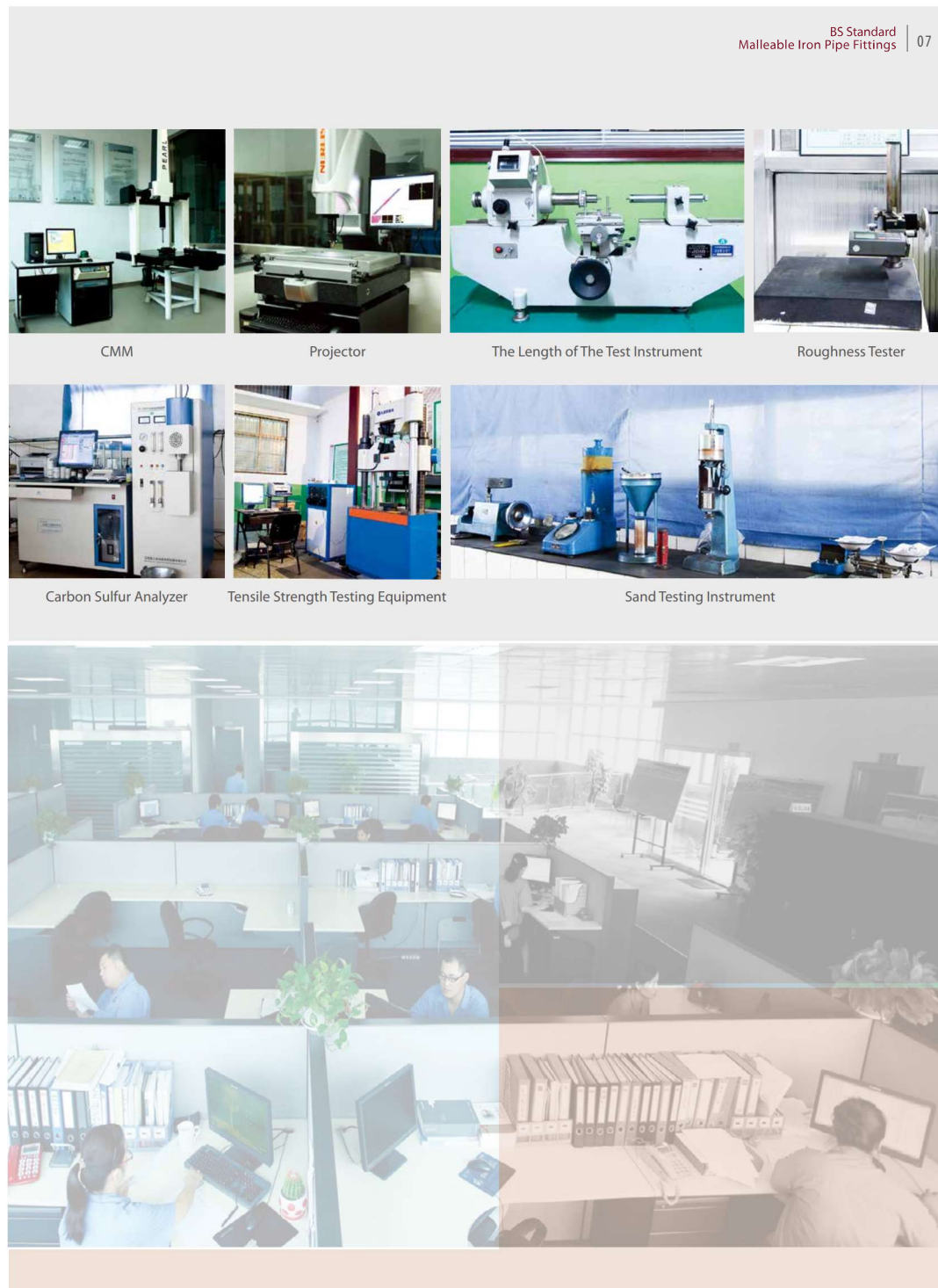
From incoming inspection to finished product, quality is checked and monitored in the whole process. Each step of the manufacturing process is carefully documented, regularly reviewed for revision control and updating standard. Quality procedures are constantly monitored and updated to assure that only the highest and most consistent quality products are supplied to our valued customers.



Metallurgical Microscope



Spectrometer



Certificates



Malleable Iron Pipe Fittings

BS Standard

Material: BS EN 1562

Dimensions: BS EN 10242

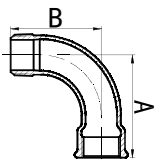
Threads: ISO 7-1

Size Available: 1/8"- 6"



1#

Bend 90°, M/F

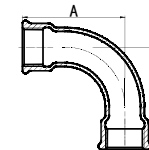


Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	35	40	48	55	69	85	105
	B	32	36	42	48	60	75	95

Size	Inch	1 1/2	2	2 1/2	3	4	6
	mm	40	50	65	80	100	150
Dim. (mm)	A	116	140	176	205	260	365
	B	105	130	165	190	245	345

2#

Bend 90°, female

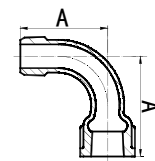


Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	40	48	55	69	85	105

Size	Inch	1 1/2	2	2 1/2	3	4
	mm	40	50	65	80	100
Dim. (mm)	A	116	140	176	205	260

1#F

Bend 90°, M/F

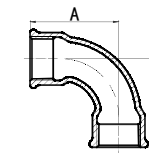


Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	52	65	82	100	115	140

Size	Inch	2 1/2	3	4
	mm	65	80	100
Dim. (mm)	A	175	205	260

2A

Short bend 90°, female

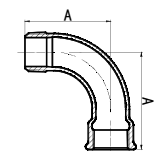


Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	45	50	63	76	85	102

Size	Inch	2 1/2	3	4
	mm	65	80	100
Dim. (mm)	A	115	138	167

1A

Short Bend 90°, M/F

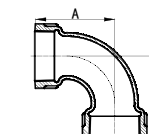


Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	30	36	45	50	63	76

Size	Inch	1 1/2	2	2 1/2	3	4
	mm	40	50	65	80	100
Dim. (mm)	A	85	102	115	138	167

2AF

Short bend 90°, female

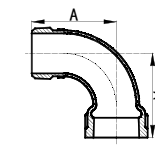


Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	30	36	45	50	63	76

Size	Inch	1 1/2	2	2 1/2	3
	mm	40	50	65	80
Dim. (mm)	A	85	102	113	138

1AF

Short Bend 90°, M/F

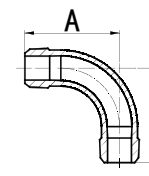


Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	30	36	45	50	63	76

Size	Inch	1 1/2	2	2 1/2
	mm	40	50	65
Dim. (mm)	A	85	102	115

3#

Bend 90°, male

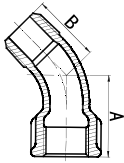


Size	Inch	3/8	1/2	3/4	1	1 1/4	1 1/2
	mm	10	15	20	25	32	40
Dim. (mm)	A	42	48	60	75	95	105

Size	Inch	2	2 1/2	3	4
	mm	50	65	80	100
Dim. (mm)	A	130	165	190	245

40

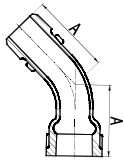
Bend 45°, M/F



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	26	30	36	43	51	64
	B	21	24	30	36	42	54
Size	Inch	1 1/2	2	2 1/2	3	4	6
	mm	40	50	65	80	100	150
Dim. (mm)	A	68	81	99	113	142	197
	B	58	70	86	100	126	176

40F

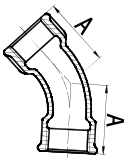
Bend 45°, M/F



Size	Inch	3/4	1	1 1/4	1 1/2	2	2 1/2
	mm	20	25	32	40	50	65
Dim. (mm)	A	45	55	68	70	85	100
	B						
Size	Inch	3	4				
	mm	80	100				
Dim. (mm)	A	115	145				
	B						

41

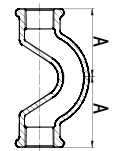
Bend 45°, female



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	26	30	36	43	51	64
	B						
Size	Inch	1 1/2	2	2 1/2	3	4	6
	mm	40	50	65	80	100	150
Dim. (mm)	A	68	81	99	113	142	197
	B						

85

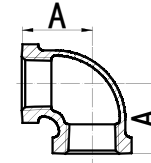
Crossover



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	45	54	70	91	100.5	115
	B						
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

90

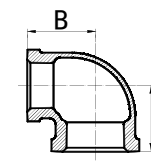
Elbow, 90°



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	19	21	25	28	33	38	45
	B							
Size	Inch	1 1/2	2	2 1/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	50	58	69	78	96	115	131
	B							

90R

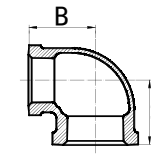
Reducing Elbow, 90°



Size	Inch	4X1 1/4	4X1 1/2	4X2	4X2 1/2	4X3
	mm	100X32	100X40	100X50	100X65	100X80
Dim. (mm)	A	60	62	68	77	82
	B	85	85	86	89	90
Size	Inch	3/4X1 1/2	1X1 1/4	1X3/8	1X1/2	1X3/4
	mm	20X15	25X8	25X10	25X15	25X20
Dim. (mm)	A	30	27	30	32	35
	B	31	31	32	34	36

90R

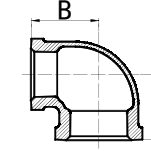
Reducing Elbow, 90°



Size	Inch	3/8X1/8	3/8X1/4	6X4	1/2X1/4	1/2X3/8
	mm	10X6	10X8	150X100	15X8	15X10
Dim. (mm)	A	20.5	23	102	24	26
	B	21.5	23	125	24	26
Size	Inch	1 1/4X3/8	1 1/4X1/2	1 1/4X3/4	1 1/4X1	1 1/2X1/2
	mm	32X10	32X15	32X20	32X25	40X15
Dim. (mm)	A	32	32	36	40	34
	B	36.5	37	41	42	41

90R

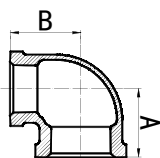
Reducing Elbow, 90°



Size	Inch	3/4X1/4	3/4X3/8	1 1/2X1 1/4	2X1/2	2X3/4
	mm	20X8	20X10	40X32	50X15	50X20
Dim. (mm)	A	26	28	46	35	40
	B	27	28	48	47	48
Size	Inch	1 1/2X3/4	1 1/2X1	3X1	3X1 1/4	3X1 1/2
	mm	40X20	40X25	80X25	80X32	80X40
Dim. (mm)	A	37	42	50	53.5	56
	B	42	46	68	68	69

90R

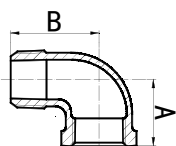
Reducing Elbow, 90°



Size	Inch	2X1	2X1 1/4	2X1 1/2	2 1/2X3/4	2 1/2X1	2 1/2X2
	mm	50X25	50X32	50X40	65X20	65X25	65X50
Dim. (mm)	A	43	47	52	42.5	46.5	61
	B	50	53	56	57	58.5	66
Size	Inch	3X2	3X2 1/2	1/4X1 1/8	2 1/2X1 1/4	2 1/2X1 1/2	3X3/4
	mm	80X50	80X65	8X6	65X32	65X40	80X20
Dim. (mm)	A	60.5	71	18.5	50.5	53.5	45
	B	71	74	19	60	61	65

92

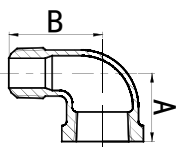
Street Elbow, 90°



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	19	21	25	28	33	38	45
	B	25	28	32	37	43	52	60
Size	Inch	1 1/2	2	2 1/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A	50	58	69	78	96	127.5	
	B	65	74	88	98	118	202	

92R

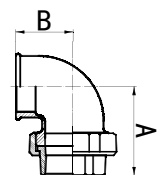
Reducing Street Elbow, 90°



Size	Inch	3/4X1/2	1X3/4				
	mm	20X15	25X20				
Dim. (mm)	A	30	35				
	B	65.4	46				
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

95

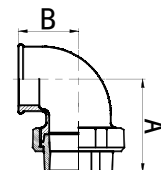
Union Elbow F/F



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	28	33	38	45	50	58
	B	58	62	72	82	90	100
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

96

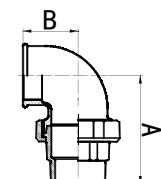
Union Elbow F/F



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	58	62	72	82	90	100
	B	28	33	38	45	50	58
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

97

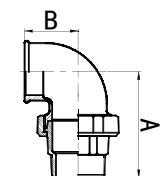
Union Elbow M/F



Size	Inch	1 1/2					
	mm	40					
Dim. (mm)	A	128					
	B	58					
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

98

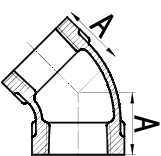
Union Elbow M/F



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	
	mm	15	20	25	32	40	
Dim. (mm)	A	76	82	94	107	115	
	B	28	33	38	45	50	
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

120

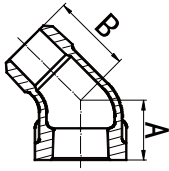
Elbow, 45°



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	16	18.5	20	22	25	28	33
	B							
Size	Inch	1 1/2	2	2 1/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	50	58	69	78	96	115	135
	B							

121

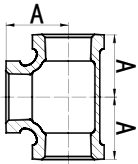
Street Elbow, 45°



Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	16	18.5	20	22	25	28
	B	21	24	25	28	32	37
Size	Inch	1 1/4	1 1/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	33	36	43	49.5	55	66
	B	43	46	55	65	76	94

130

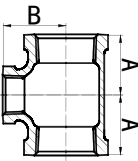
Tee



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	19	21	25	28	33	38	45
	B	21	24	25	28	32	37	43
Size	Inch	1 1/2	2	2 1/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	50	58	69	78	96	115	131
	B	50	58	69	78	96	115	131

130R

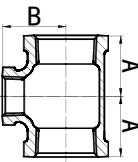
Reducing Tee



Size	Inch	4X1/2	4X3/4	4X1	4X1 1/4	4X1 1/2
	mm	100X15	100X20	100X25	100X32	100X40
Dim. (mm)	A	50	53	56	60	61
	B	79	79	81	84	84
Size	Inch	1 1/2X1/8	1 1/2X1/4	1 1/2X3/8	3/4X1 1/4	3/4X3/8
	mm	15X6	15X8	15X10	20X8	20X10
Dim. (mm)	A	22	24	26	26	28
	B	23	24	26	27	28

130R

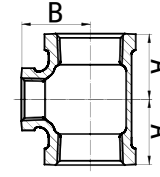
Reducing Tee



Size	Inch	4X2	4X2 1/2	4X3	3/8X1 1/4	6X4
	mm	100X50	100X65	100X80	10X8	150X100
Dim. (mm)	A	70	84	82	22	105
	B	86	92	90	22.5	125.5
Size	Inch	3/4X1 1/2	1X1 1/4	1X3/8	1X1/2	1X3/4
	mm	20X15	25X8	25X10	25X15	25X20
Dim. (mm)	A	30	28	30	32	35
	B	31	31	32	34	36

130R

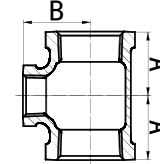
Reducing Tee



Size	Inch	6X2	6X3	1 1/4X3/4	1 1/4X1	1 1/2X3/8
	mm	150X50	150X80	32X20	32X25	40X10
Dim. (mm)	A	75	92.5	36	40	34
	B	115	120.5	41	42	39
Size	Inch	1 1/4X3/8	1 1/4X1/2	2X1 1/2	2 1/2X1 1/2	2 1/2X3/4
	mm	32X10	32X15	50X40	65X15	65X20
Dim. (mm)	A	32	34	52	40	43
	B	36	38	55	56	57

130R

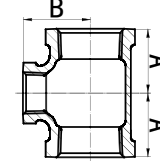
Reducing Tee



Size	Inch	1 1/2X1/2	1 1/2X3/4	1 1/2X1	1 1/2X1 1/4	2X3/8
	mm	40X15	40X20	40X25	40X32	50X10
Dim. (mm)	A	36	38	42	46	36
	B	42	44	46	48	46
Size	Inch	2 1/2X1	2 1/2X1 1/4	2 1/2X1 1/2	2 1/2X2	3X1/2
	mm	65X25	65X32	65X40	65X50	80X15
Dim. (mm)	A	47	52	55	61	42
	B	60	62	63	66	64

130R

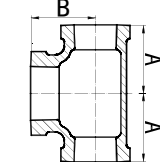
Reducing Tee



Size	Inch	2X1/2	2X3/4	2X1	2X1 1/4	3X2	3X3/4
	mm	50X15	50X20	50X25	50X32	80X50	80X20
Dim. (mm)	A	38	40	44	48	64	45
	B	48	50	52	54	73	65
Size	Inch	3X1	3X1 1/4	3X1 1/2	3X2 1/2	1/4X1/8	
	mm	80X25	80X32	80X40	80X65	8X6	
Dim. (mm)	A	51	55	58	72	18.5	
	B	67	70	71	76	19	

130R

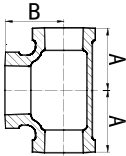
Reducing Tee



Size	Inch	1 1/2X1 1/2X3/4	1 1/2X1 1/2X1	3/4X3/4X1	3/4X3/4X1 1/4
	mm	15X15X20	15X15X25	20X20X25	20X20X32
Dim. (mm)	A	31	34	36	41
	B	30	32	35	36
Size	Inch	1X1X2	1X1X2 1/2	1 1/4X1 1/4X1 1/2	1 1/4X1 1/4X2
	mm	25X25X50	25X25X65	32X32X40	32X32X50
Dim. (mm)	A	51	60	48	54
	B	48.5	48	46	48

130R

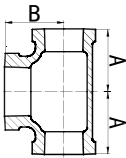
Reducing Tee



Size	Inch	1/2X1/2X3/4	1/2X1/2X1	3/4X3/4X1	3/4X3/4X1 1/4
	mm	15X15X20	15X15X25	20X20X25	20X20X32
Dim. (mm)	A	31	34	36	41
	B	30	32	35	36
Size	Inch	1X1X2	1X1X2 1/2	1 1/4X1 1/4X1 1/2	1 1/4X1 1/4X2
	mm	25X25X50	25X25X65	32X32X40	32X32X50
Dim. (mm)	A	51	60	48	54
	B	48.5	48	46	48

130R

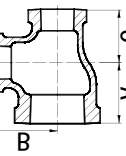
Reducing Tee



Size	Inch	1X1X1 1/4	1X1X1 1/2	2X2X2 1/2	2 1/2X2 1/2X3
	mm	25X25X32	25X25X40	50X50X65	65X65X80
Dim. (mm)	A	42	46	64	75
	B	40	42	59	72
Size	Inch	1 1/2X1 1/2X2	1 1/2X1 1/2X2 1/2	2 1/2X2 1/2X4	
	mm	40X40X50	40X40X65	65X65X100	
Dim. (mm)	A	55	65	90	
	B	52	55	78	

130R

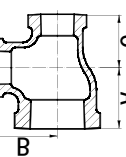
Reducing Tee



Size	Inch	3/4X1/2X1/2	1X1/2X1/2	1X3/4X3/4
	mm	20X15X15	25X15X15	25X20X20
Dim. (mm)	A	30	32	35
	B	31	34	36
	C	28	28	33
Size	Inch	1 1/2X3/4X3/4	1 1/2X1X1	1 1/2X1 1/4X1 1/4
	mm	40X20X20	40X25X25	40X32X32
Dim. (mm)	A	38	42	46
	B	43	46	48
	C	32	38	45

130R

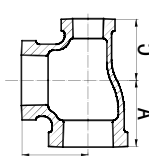
Reducing Tee



Size	Inch	1 1/4X1/2X1/2	1 1/4X3/4X3/4	1 1/4X1X1	2X1X1
	mm	32X15X15	32X20X20	32X25X25	50X25X25
Dim. (mm)	A	34	36	40	44
	B	38	41	42	51
	C	27	33	38	38
Size	Inch	2X1 1/4X1 1/4	2X1 1/2X1 1/2	2 1/2X2X2	3X2X2
	mm	50X32X32	50X40X40	65X50X50	80X50X50
Dim. (mm)	A	48	52	60.5	64
	B	54	55	66	73
	C	45	50	57	57

130R

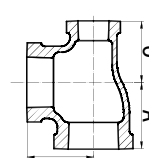
Reducing Tee



Size	Inch	3/4X1/2X3/4	1X1/4X1	1X1/2X1	1 1/4X1 1/4X1 1/4	1 1/2X1 1/2X1 1/2
	mm	20X15X20	25X8X25	25X15X25	32X25X32	40X15X40
Dim. (mm)	A	33	38	38	45	50
	B	33	38	38	45	50
	C	31	30	34	42	42
Size	Inch	1 1/2X3/4X1 1/2	1X3/4X1	1 1/4X1 1/2X1 1/4	1 1/4X3/4X1 1/4	1 1/2X1 1/2X1 1/2
	mm	40X20X40	25X20X25	32X15X32	32X20X32	40X25X40
Dim. (mm)	A	50	38	45	45	50
	B	50	38	45	45	50
	C	44	36	38	41	46

130R

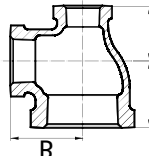
Reducing Tee



Size	Inch	1 1/2X1 1/4X1 1/2	2X1/2X2	2X3/4X2	2X1X2
	mm	40X32X40	50X15X50	50X20X50	50X25X50
Dim. (mm)	A	50	57	58	58
	B	50	57	58	58
	C	48	47.5	50	52
Size	Inch	2X1 1/4X2	2X1 1/2X2	2 1/2X1 1/2X2 1/2	2 1/2X2X2 1/2
	mm	50X32X50	50X40X50	65X40X65	65X50X65
Dim. (mm)	A	58	58	68.5	67
	B	58	58	68.5	67
	C	54	55	63.5	65

130R

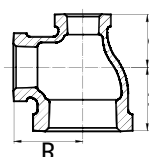
Reducing Tee



Size	Inch	4X3X2	3/4X1/2X1	1X1/2X3/4	1 1/4X3/4X1	1 1/4X1X1X2
	mm	100X80X30	20X15X25	25X15X20	32X20X25	32X25X15
Dim. (mm)	A	67	38	35	40	34
	B	83.5	34	36	42	38
	C	60	33	31	36	32
Size	Inch	1 1/4X1X3/4	1 1/4X1/2X3/4	1 1/4X1 1/2X1 1/4	1 1/4X3/4X1X2	1 1/2X1 1/2X1
	mm	32X25X20	32X15X20	32X15X25	32X20X15	40X15X25
Dim. (mm)	A	36	35	39	40	44
	B	41	38	41.5	42.5	46
	C	35	29	34	37	34

130R

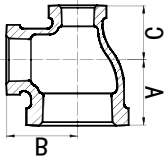
Reducing Tee



Size	Inch	1 1/2X3/4X1	1 1/2X3/4X1 1/4	1 1/2X1X1 1/2	1 1/2X3/4X1 1/4	1 1/2X1 1/4X1 1/2
	mm	40X20X25	40X20X32	40X25X15	40X25X32	40X32X15
Dim. (mm)	A	44	46	37	45	36
	B	46	48	41	47	42
	C	35	41	32	41.5	34
Size	Inch	2X1 1/2X1 1/2	2X1 1/4X1	2X1 1/4X1 1/2	1 1/2X1 1/4X3/4	1 1/2X1 1/4X1
	mm	50X25X40	50X32X25	50X32X40	40X32X20	40X32X25
Dim. (mm)	A	51	40	52	38	42
	B	55	51	55	44	46
	C	45.5	44	48	36	40

130R

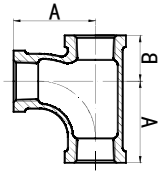
Reducing Tee



Size	Inch	11/2X11/4X2	2X11/2X1/2	2X11/2X3/4	2X11/2X1	2X11/2X11/4
	mm	40X32X50	50X40X15	50X40X20	50X40X25	50X40X32
Dim. (mm)	A	55	38	40	44	48
	B	51.5	48	50	52	54
	C	53.5	36	39	42	46
Size	Inch	21/2X2X1/2	21/2X2X1	21/2X2X11/4	3X21/2X2	
	mm	65X50X15	65X50X25	65X50X32	80X65X50	
Dim. (mm)	A	57	53	57	67	
	B	64	60	64	74.5	
	C	52	53	52	64	

131

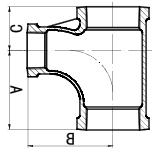
Pitcher Tee



Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	45	50	63	76	85	102
	B	24	28	33	40	43	53
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

131R

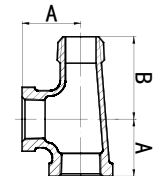
Reducing Pitcher Tee



Size	Inch	3/4X1/2	1X1/2	1X3/4	1X3/4X3/4
	mm	20X15	25X15	25X20	25X20X20
Dim. (mm)	A	47	49	53	53
	B	48	51	54	54
	C	25	28	30	28
Size	Inch	11/4X1/2	11/4X3/4	11/2X3/4	11/2X1
	mm	32X15	32X20	40X20	40X25
Dim. (mm)	A	51	55	55	66
	B	56	58	61	71
	C	30	33	33	36

134

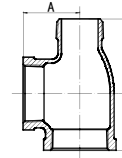
Service Tee



Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	28.5	33.5	38	44.5	49.5	57
	B	41.5	48	54.5	62	68.5	83
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

134R

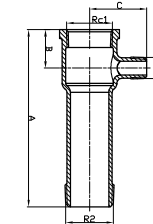
Reducing Service Tee



Size	Inch	2X11/4	21/2X2	3X21/2			
	mm	50X40	65X50	80X65			
Dim. (mm)	A	57	69	78			
	B	75	88	106			
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

137RL

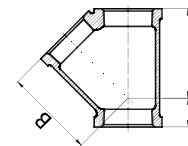
Water Knockout Drum



Size	Inch	11/2X11/2X7.09	11/2X3/4X7.09	11/2X1/2	11/2X3/4X9.45	11/2X3/4X9.45
	mm	40X15X180	40X20X180	40X15	40X15X240	40X20X240
Dim. (mm)	A	180	180	220±3.5	240±3.5	240±3.5
	B	38	38	38±2.0	38±2.0	38±2.0
	C	58	58	58±2.5	58±2.5	58±2.5
	Rc1	Rc11/2	Rc11/2	Rc11/2	Rc11/2	Rc11/2
	R2	R11/2	R11/2	R11/2	R11/2	R11/2
	R3	R1/2	R3/4	R1/2	R1/2	R3/4

165

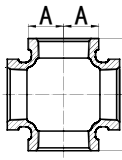
Lateral Y Branche, 45°



Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	15.5	18.3	21.6	26	27.9	31.5
	B	43.4	52	61.7	74.2	83.3	99.8
Size	Inch	21/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	38.6	43.4	51			
	B	120	141	177			

180

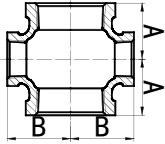
Cross



Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	19	21	25	28	33	38
Size	Inch	11/4	11/2	2	21/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	45	50	58	69	78	96

180R

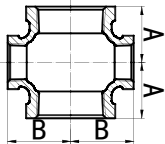
Reducing Cross



Size	Inch	4X1	4X1 1/4	4X1 1/2	4X2	4X2 1/2
	mm	100X25	100X32	100X40	100X50	100X65
Dim. (mm)	A	56	60	61	70	84
	B	81	84	84	86	92
Size	Inch	1 1/2X1 1/2	1 1/2X3/4	1 1/2X1	1 1/2X1 1/4	2X3/4
	mm	40X15	40X20	40X25	40X32	50X20
Dim. (mm)	A	36	38	42	46	40
	B	42	44	46	48	50

180R

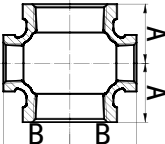
Reducing Cross



Size	Inch	4X3	3/4X1 1/2	1X1 1/2	1X3/4	1 1/4X1 1/2
	mm	100X80	20X15	25X15	25X20	32X15
Dim. (mm)	A	82	30	32	35	34
	B	90	31	34	36	38
Size	Inch	2X1	2X1 1/4	2X1 1/2	2 1/2X3/4	2 1/2X1
	mm	50X25	50X32	50X40	65X20	65X25
Dim. (mm)	A	44	48	52	43	47
	B	52	54	55	57	60

180R

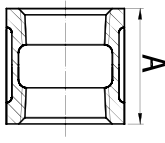
Reducing Cross



Size	Inch	1 1/4X3/4	1 1/4X1	2 1/2X2	3X3/4	3X1	2 1/2X1 1/4
	mm	32X20	32X25	65X50	80X20	80X25	65X32
Dim. (mm)	A	36	40	61	45	51	52
	B	41	42	66	65	67	62
Size	Inch	2 1/2X1 1/2	3X1 1/4	3X1 1/2	3X2	3X2 1/2	
	mm	65X40	80X32	80X40	80X50	80X55	
Dim. (mm)	A	55	55	58	64	72	
	B	63	70	71	73	76	

220

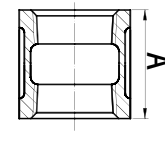
Socket



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	25	27	30	36	39	45	50
Size	Inch	1 1/2	2	2 1/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	55	65	74	80	94	95	105

220S

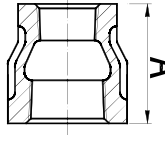
Socket R/L



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	36	39	45	50	55	65
Size	Inch						
	mm						
Dim. (mm)	A						

240

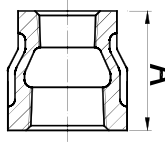
Reducing Socket



Size	Inch	4X1	4X1 1/4	4X1 1/2	4X2	4X2 1/2
	mm	100X25	100X32	100X40	100X50	100X65
Dim. (mm)	A	94	94	94	94	94
Size	Inch	1 1/2X1 1/8	1 1/2X1 1/4	1 1/2X3/8	3/4X1 1/8	3/4X1 1/4
	mm	15X6	15X8	15X10	20X6	20X8
Dim. (mm)	A	36	36	36	39	39

240

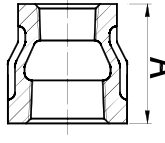
Reducing Socket



Size	Inch	4X3	3/8X1 1/8	3/8X1 1/4	5X4	6X4
	mm	100X80	10X6	10X8	125X100	150X100
Dim. (mm)	A	94	30	30	122	105
Size	Inch	3/4X3/8	3/4X1/2	1X1/4	1X3/8	1X1/2
	mm	20X10	20X15	25X8	25X10	25X15
Dim. (mm)	A	39	39	45	45	45

240

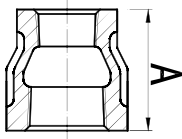
Reducing Socket



Size	Inch	6X2	6X3	1 1/4X3/8	1 1/4X1/2	1 1/4X3/4
	mm	150X50	150X80	32X10	32X15	32X20
Dim. (mm)	A	105	105	50	50	50
Size	Inch	1X3/4	1 1/4X1/4	2X1	2X1 1/4	2X1 1/2
	mm	25X20	32X8	50X25	50X32	50X40
Dim. (mm)	A	45	50	65	65	65

240

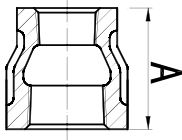
Reducing Socket



Size	Inch	6X2	6X3	11/4X3/8	11/4X1/2	11/4X3/4	1X3/4
	mm	150X50	150X80	32X10	32X15	32X20	25X20
Dim. (mm)	A	105	105	50	50	50	45
Size	Inch	11/4X1/4	2X1	2X11/4	2X11/2	11/4X1	11/2X1/4
	mm	32X8	50X25	50X32	50X40	32X25	40X8
Dim. (mm)	A	50	65	65	65	50	55

240

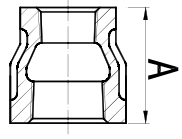
Reducing Socket



Size	Inch	11/2X3/8	11/2X1/2	11/2X3/4	21/2X1/2	21/2X3/4	21/2X1
	mm	40X10	40X15	40X20	65X15	65X20	65X25
Dim. (mm)	A	55	55	55	74	74	74
Size	Inch	21/2X11/4	21/2X11/2	11/2X1	11/2X11/4	2X1/2	2X3/4
	mm	65X32	65X40	40X25	40X32	50X15	50X20
Dim. (mm)	A	74	74	55	55	65	65

240

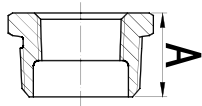
Reducing Socket



Size	Inch	3X11/4	21/2X2	3X1/2	3X3/4	3X1	3X11/2
	mm	80X32	65X50	80X15	80X20	80X25	80X40
Dim. (mm)	A	80	74	80	80	80	80
Size	Inch	3X2	3X21/2	1/4X1/8			
	mm	80X50	80X65	8X6			
Dim. (mm)	A	80	80	27			

241

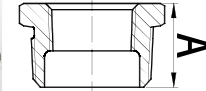
Bushing



Size	Inch	4X3/4	4X1	4X11/4	4X11/2	4X3
	mm	100X20	100X25	100X32	100X40	100X80
Dim. (mm)	A	51	51	51	51	51
Size	Inch	1/2X3/8	3/4X1/8	3/4X1/4	3/4X3/8	3/4X1/2
	mm	15X10	20X6	20X8	20X10	20X15
Dim. (mm)	A	24	26	26	26	26

241

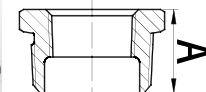
Bushing



Size	Inch	3/8X1/8	3/8X1/4	5X4	6X5	6X21/2
	mm	10X6	10X8	125X100	150X125	150X65
Dim. (mm)	A	20	20	47	69	69
Size	Inch	1X1/4	1X3/8	1X1/2	1X3/4	11/4X3/8
	mm	25X8	25X10	25X15	25X20	32X10
Dim. (mm)	A	29	29	29	29	31

241

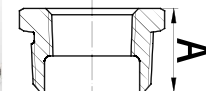
Bushing



Size	Inch	1/2X1/8	1/2X1/4	11/4X1	11/2X1/4	11/2X3/8
	mm	15X6	15X8	32X25	40X8	40X10
Dim. (mm)	A	24	24	31	31	31
Size	Inch	11/4X1/2	11/4X3/4	21/2X11/2	21/2X2	3X2
	mm	32X15	32X20	65X40	65X50	80X50
Dim. (mm)	A	31	31	40	40	44

241

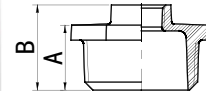
Bushing



Size	Inch	11/2X1/2	11/2X3/4	11/2X1	11/2X11/4	2X1	3X21/2
	mm	40X15	40X20	40X25	40X32	50X25	80X65
Dim. (mm)	A	31	31	31	31	35	44
Size	Inch	1/4X1/8	2X11/4	2X11/2	21/2X1/2	21/2X3/4	
	mm	8X6	50X32	50X40	65X15	65X20	
Dim. (mm)	A	20	35	35	40	40	

241D

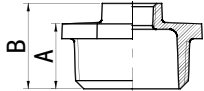
Bushing



Size	Inch	2X1/2	2X3/4	21/2X1	21/2X11/4	3X1/2
	mm	50X15	50X20	65X25	65X32	80X15
Dim. (mm)	A	35	35	40	40	44
	B	48	48	54	54	59
Size	Inch	6X4	3X3/4	3X1	3X11/4	3X11/2
	mm	150X100	80X20	80X25	80X32	80X40
Dim. (mm)	A	63	44	44	44	44
	B	86	59	59	59	59

241D

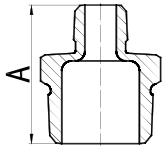
Bushing



Size	Inch	4X2	4X2 1/2	6X3		
	mm	100X50	100X65	150X80		
Dim. (mm)	A	51	51	63		
	B	69	69	86		
Size	Inch					
	mm					
Dim. (mm)	A					
	B					

245

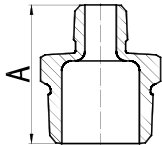
Reducing Hexagon Nipple



Size	Inch	4X2	4X2 1/2	4X3	3/8X1/4	1/2X1/4
	mm	100X50	100X65	100X80	10X8	15X8
Dim. (mm)	A	87	87	87	38	44
Size	Inch	1 1/4X3/4	1 1/4X1	1 1/2X1 1/2	1 1/2X3/4	1 1/2X1
	mm	32X20	32X25	40X15	40X20	40X25
Dim. (mm)	A	57	57	59	59	59

245

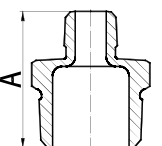
Reducing Hexagon Nipple



Size	Inch	1/2X3/8	3/4X1/4	3/4X3/8	3/4X1/2	1X1/2
	mm	15X10	20X8	20X10	20X15	25X15
Dim. (mm)	A	44	47	47	47	53
Size	Inch	1 1/2X1 1/4	2X1/2	2X3/4	2X1	2X1 1/4
	mm	40X32	50X15	50X20	50X25	50X32
Dim. (mm)	A	59	68	68	68	68

245

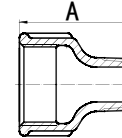
Reducing Hexagon Nipple



Size	Inch	1X3/4	1 1/4X1/2	2 1/2X1 1/4	2 1/2X1 1/2	2 1/2X2	2X1 1/2
	mm	25X20	32X15	65X32	65X40	65X50	50X40
Dim. (mm)	A	53	57	75	75	75	68
Size	Inch	1 1/4X1/8	2 1/2X1	3X1 1/2	3X2	3X2 1/2	
	mm	8X6	65X25	80X40	80X50	80X65	
Dim. (mm)	A	31	75	83	83	83	

246

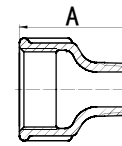
Reducing Socket M/F



Size	Inch	3/8X1/4	1/2X1/4	1/2X3/8	3/4X3/8	3/4X1/2
	mm	10X8	15X8	15X10	20X10	20X15
Dim. (mm)	A	35	43	43	48	48
Size	Inch	1 1/2X1 1/4	2X1	2X1 1/4	2X1 1/2	1X1 1/2
	mm	40X32	50X25	50X32	50X40	25X15
Dim. (mm)	A	63	70	70	70	55

246

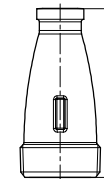
Reducing Socket M/F



Size	Inch	1X3/4	1 1/4X1/2	1 1/4X3/4	1 1/4X1	1 1/2X3/4
	mm	25X20	32X15	32X20	32X25	40X20
Dim. (mm)	A	55	60	60	60	63
Size	Inch	1 1/2X1				
	mm	40X25				
Dim. (mm)	A	63				

246L

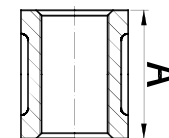
Reducing Extension Piece Sockets M/F



Size	Inch	2X3/4	2X1			
	mm	50X20	50X25			
Dim. (mm)	A	130	85			
Size	Inch					
	mm					
Dim. (mm)	A					

270

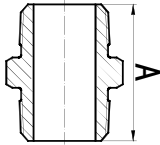
Parallel Thread Socket



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	25	27	30	36	39	45	50
Size	Inch	6	1 1/2	2	2 1/2	3	4	
	mm	150	40	50	65	80	100	
Dim. (mm)	A	120	55	65	74	80	94	

280

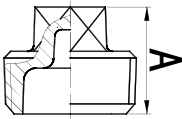
Hexagon Nipple



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	29	36	38	44	47	53	57
Size	Inch	5	6	1 1/2	2	2 1/2	3	4
	mm	125	150	40	50	65	80	100
Dim. (mm)	A	103	110	59	68	75	83	95

291

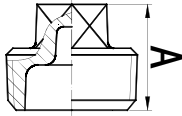
Plain Plug



Size	Inch	1/8	1/4	3/8	3/4	1	1 1/4	1 1/2
	mm	6	8	10	20	25	32	40
Dim. (mm)	A Min	11	14	15	20	23	29	30
Size	Inch	2	2 1/2	3	4	6		
	mm	50	65	80	100	150		
Dim. (mm)	A Min	36	39	44	58	71.5		

291LM

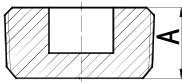
Plain Plug



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	25	28.5	32.5	35.1	37.6	40.1
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	46	50	64.5			

291N

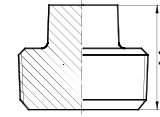
Countersunk Plug



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A Min	14.2	16	19	20.3	21.1	22.4
Size	Inch	2 1/2	3				
	mm	65	80				
Dim. (mm)	A Min	27.2	38.7				

291S

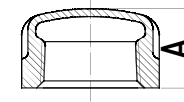
Solid Plug



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A Min	14	15	18	20	23	29
Size	Inch	1 1/2	2	2 1/2	3		
	mm	40	50	65	80		
Dim. (mm)	A Min	30	36	39	44		

300

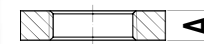
Cap



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A Min	13	15	17	19	22	24	27
Size	Inch	1 1/2	2	2 1/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A Min	27	32	35	38	45	54	61

310

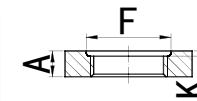
Locknut



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	6	7	8	9	10	11
Size	Inch	1 1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	12	13	16	19	23	

312

Backnut



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2	4
	mm	15	20	25	32	40	50	100
Dim. (mm)	A Min	7.9	8.6	9.7	10.7	11.9	13.5	20.3
	F Min	24.6	31.2	38.1	47.2	53.9	66.8	127
	K	1.5	1.5	1.5	1.5	1.5	2.3	3.3

321-4

Flange Bs4504



Size	Inch	11/4	11/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	23	23	28	35	38	38
Size	Inch	6					
	mm	150					
Dim. (mm)	A	46					

321-6

Flange 1600/4



Size	Inch	11/4	11/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	B	20	20	22	26	28	34
Size	Inch	6					
	mm	150					
Dim. (mm)	B	40					

321-H

Flange



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	15	16	19	21	21	26
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	30	33	39			

321P

Flange



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	15	16	19	21	21	26
Size	Inch	2 1/2	3	4	5	6	
	mm	65	80	100	125	150	
Dim. (mm)	A	30	33	39	40	40	

321PW

Flange



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	15	16	19	21	21	26
Size	Inch	2 1/2	3	4	5	6	
	mm	65	80	100	125	150	
Dim. (mm)	A	30	33	39	40	40	

321TD

Flange



Size	Inch	1	1 1/4	1 1/2	2	2 1/2	3
	mm	25	32	40	50	65	80
Dim. (mm)	A	16	17.4	23	25	25	26.8
Size	Inch	4	6				
	mm	100	150				
Dim. (mm)	A	31.5	35				

330

Flat Seat Union



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	38	42	45	48	52	58	65
Size	Inch	1 1/2	2	2 1/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A	70	78	85	95	100	144	

330D

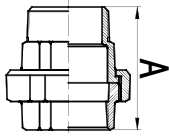
Flat Seat Union



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	38	42	45	48	52	58	65
Size	Inch	1 1/2	2	2 1/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A	70	78	85	95	100	144	

331

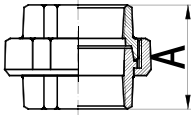
Flat Seat Union M/F



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	66	72	80	90	95	106
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	118	130	133			

340

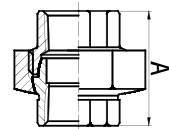
Conical Joint Union



Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	38	42	45	48	52	58
Size	Inch	1 1/4	1 1/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	65	70	78	85	95	110

340Q

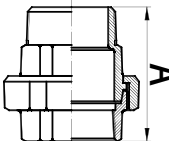
Deflection Union



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	46	49	55	64	74.5	83
Size	Inch						
	mm						
Dim. (mm)	A						

341

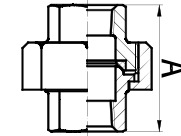
Conical Joint Union M/F



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	55	55	66	72	80	90
Size	Inch	1 1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	95	106	118	130	133	

342

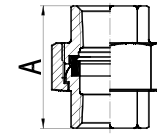
Conical Joint Union



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A Min	32	36.5	41	43.5	49.5	52.5	57.5
Size	Inch	1 1/2	2	2 1/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A Min	61	70	82	89	98	147	

342A

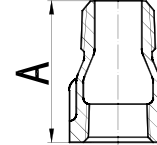
Double Bronze Navy Union



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	48	52	58	65	70	78
Size	Inch						
	mm						
Dim. (mm)	A						

526

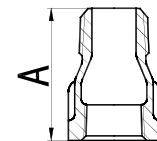
Long Adapter M/F



Size	Inch	1/2X30	1/2X40	1/2X50	1/2X60	1/2X100
	mm	15X30	15X40	15X50	15X60	15X100
Dim. (mm)	A	30	40	50	60	100
Size	Inch	1/2X30	1/2X40	1/2X50	1/2X60	1/2X100
	mm	15X30	15X40	15X50	15X60	15X100
Dim. (mm)	A	30	40	50	60	100

529A

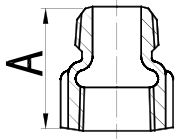
Long Extension Piece



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	33	35	43	48	55	60
Size	Inch	1 1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	61.5	68	76	83	97	

529X

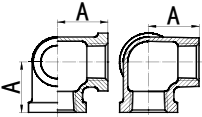
Short Extension Piece



Size	Inch	1/2					
	mm	15					
Dim. (mm)	A	32					
Size	Inch						
	mm						
Dim. (mm)	A						

1221

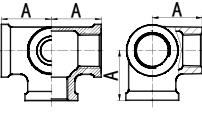
Side Outlet Elbow



Size	Inch	1/2	3/4	1	1 1/2	2	
	mm	15	20	25	40	50	
Dim. (mm)	A	28	33	38	50	58	
Size	Inch						
	mm						
Dim. (mm)	A						

1223

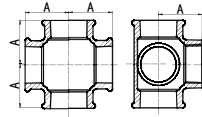
Side Outlet Tee



Size	Inch	1/2	3/4	1	1 1/4		
	mm	15	20	25	32		
Dim. (mm)	A	28	33	38	45		
Size	Inch						
	mm						
Dim. (mm)	A						

1224

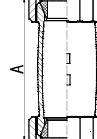
Side Outlet Cross



Size	Inch	1 1/4	1 1/2				
	mm	32	40				
Dim. (mm)	A	45	50				
Size	Inch						
	mm						
Dim. (mm)	A						

LAA

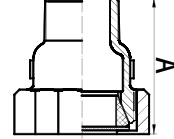
Coupling Luck F/F



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	95	104	110	114	122	129
Size	Inch						
	mm						
Dim. (mm)	A						

LAF

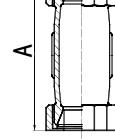
Coupling Luck M/F



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	59	63	65	69	71	79
Size	Inch						
	mm						
Dim. (mm)	A						

LCC

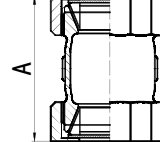
Long Compression Coupling



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	93	101	109	114	118	121
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	137	145	155			

SCC

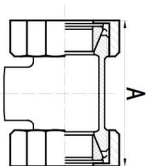
Short Compression Coupling



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	62	69	73	79	79	84
Size	Inch	2 1/2	3				
	mm	65	80				
Dim. (mm)	A	100	110				

TCC

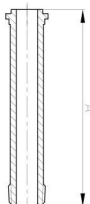
Compression Tee



Size	Inch	1/2	3/4				
	mm	15	20				
Dim. (mm)	A	80	88				
Size	Inch						
	mm						
Dim. (mm)	A						

810L-1

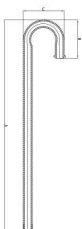
Straight, pipe



PART NO	Size	Dimensions
		A
810L-1	15X120	120

UXWG

U-bend Gas Meter Connector



PART NO	Size	Dimensions		
		A	B	C
UXWG	1/2XR48X700MM	700	89.5	102
UXWG	1/2XR48X650MM	650	89.5	102
UXWG	1/2XR48X450MM	450	89.5	102

Malleable Iron Collar Fittings

BS Standard



90
Elbow, 90°



90R
Reducing Elbow, 90°



92
Street Elbow, 90°



120
Elbow, 45°



130
Tee



130R
Reducing Tee



180R
Reducing Cross



220
Socket



241
Bushing



280
Hexagon Nipple



291
Plug



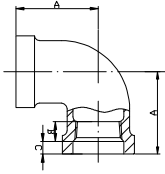
300
Cap



529A
Long Extension Piece

90

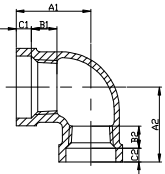
Elbow, 90°



Size/ 规格	Inch	1/2	3/4	1	1 1/4	1 1/2	2
Dim./ 尺寸 (mm)	A	35.5	41	47	55	60	69
	B	11	13	15	17	18	20
	C	7	8	9	10	10	11
Size/ 规格	Inch	3	4	6			
Dim./ 尺寸 (mm)	A	80	100	150			
	B	91	110	145			
	C	25.5	28.5	33			

90R

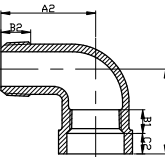
Reducing Elbow, 90°



Size/ 规格	Inch	3/4X1/2	1X3/4	1 1/4X1		
Dim./ 尺寸 (mm)	A1	38	44	50		
	B1	13	15	17		
	C1	8	9	10		
	A2	38	44	51		
	B2	11	13	15		
	C2	7	8	9		

92

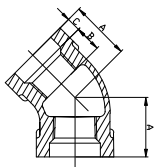
Street Elbow, 90°



Size/ 规格	Inch	1/2	3/4	1	1 1/4	1 1/2	2
Dim./ 尺寸 (mm)	A1	35	41	47	55	60	69
	B1	11	13	15	17	18	20
	C1	7	8	9	10	10	11
	A2	41	48	54	62	68	82.5
	B2	14	15	18	19	20	22

120

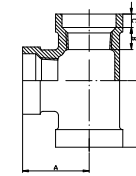
Elbow, 45°



Size/ 规格	Inch	1/2	3/4	1	1 1/4	1 1/2	2
Dim./ 尺寸 (mm)	A	28	33	38	44	46	53
	B	11	13	15	17	18	20
	C	7	8	9	10	10	11
Size/ 规格	Inch	3	4	6			
Dim./ 尺寸 (mm)	A	80	100	150			
	B	67	79	97			
	C	25.5	28.5	33			

130

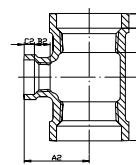
Tee



Size/ 规格	Inch	1/2	3/4	1	1 1/4	1 1/2	2
Dim./ 尺寸 (mm)	A	35.5	41	47	55	60	69
	B	11	13	15	17	18	20
	C	7	8	9	10	10	11
Size/ 规格	Inch	3	4	6			
Dim./ 尺寸 (mm)	A	80	100	150			
	B	91	110	145			
	C	25.5	28.5	33			

130R

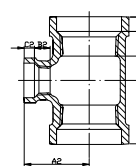
Reducing Tee



Size/ 规格	Inch	3/4X1/2	1X1/2	1X3/4	1 1/4X1/2	1 1/4X3/4
Dim./ 尺寸 (mm)	A1	38	41	43.5	44	46
	B1	13	15	15	17	17
	C1	8	9	9	10	10
	A2	38	41	44.5	45	49
	B2	11	11	13	11	13
	C2	7	7	8	7	8

130R

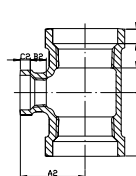
Reducing Tee



Size/ 规格	Inch	1 1/4X1	1 1/2X1 1/2	1 1/2X3/4	1 1/2X1	1 1/2X1 1/4
Dim./ 尺寸 (mm)	A1	50	46	48.5	52	56
	B1	17	18	18	18	18
	C1	10	10	10	10	10
	A2	51	49	52.5	54.5	57.5
	B2	15	11	13	15	17
	C2	9	7	8	9	10

130R

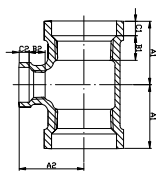
Reducing Tee



Size/ 规格	Inch	2X1/2	2X3/4	2X1	2X1 1/4	2X1 1/2
Dim./ 尺寸 (mm)	A1	49	51.5	54.5	59	62
	B1	20	20	20	20	20
	C1	11	11	11	11	11
	A2	55	58	60	63	64.5
	B2	11	13	15	17	18
	C2	7	8	9	10	10

130R

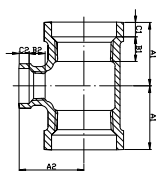
Reducing Tee



Size/规格	Inch	3X3/4	3X1	3X1 1/4	3X2	4X3/4
	mm	80X20	80X25	80X32	80X50	100X20
Dim./尺寸 (mm)	A1	60	63	68	77	68
	B1	25.5	25.5	25.5	25.5	28.5
	C1	13	13	13	13	14
	A2	74	76	79	84	88
	B2	13	15	17	20	13
	C2	8	9	10	11	8

130R

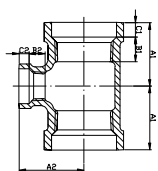
Reducing Tee



Size/规格	Inch	4X1	4X1 1/4	4X2	4X3	6X3
	mm	100X25	100X32	100X50	100X80	150X80
Dim./尺寸 (mm)	A1	71	75	83.5	97	107.5
	B1	28.5	28.5	28.5	28.5	33
	C1	14	14	14	14	15
	A2	95	96	97.5	104	133.5
	B2	15	17	20	25.5	25.5
	C2	9	10	11	13	13

130R

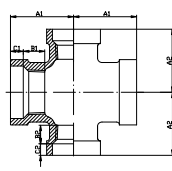
Reducing Tee



Size/规格	Inch	6X4	3/4X1 1/2X1/2			
	mm	150X100	20X15X15			
Dim./尺寸 (mm)	A1	119.5	38.5			
	B1	33	13			
	C1	15	8			
	A2	139.5	38			
	B2	28.5	11			
	C2	14	7			
	A3		35.5			

180R

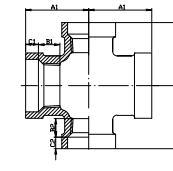
Reducing Cross



Size/规格	Inch	1X1/2	1 1/4X3/4	1 1/4X1	1 1/2X1 1/2	1 1/2X3/4
	mm	25X15	32X20	32X25	40X15	40X20
Dim./尺寸 (mm)	A1	41	46	50	46	48
	B1	15	17	17	18	18
	C1	9	10	10	10	10
	A2	41	49	51	49	52
	B2	11	13	15	11	13
	C2	7	8	9	7	8

180R

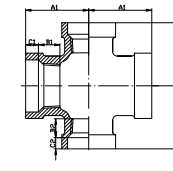
Reducing Cross



Size/规格	Inch	1 1/2X1	2X3/4	2X1	3X3/4	3X1
	mm	40X25	50X20	50X25	80X20	80X25
Dim./尺寸 (mm)	A1	52	51.5	54.5	60	63
	B1	18	20	20	25.5	25.5
	C1	10	11	11	13	13
	A2	54.5	58	60	74	76
	B2	15	13	15	13	15
	C2	9	8	9	8	9

180R

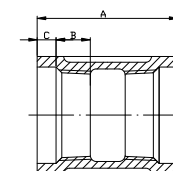
Reducing Cross



Size/规格	Inch	3X1 1/4	4X3/4	4X1	4X1 1/4	6X3
	mm	80X32	100X20	100X25	100X32	150X80
Dim./尺寸 (mm)	A1	68	68	71	75	107.5
	B1	25.5	28.5	28.5	28.5	33
	C1	13	14	14	14	15
	A2	79	88	90	96	133.5
	B2	17	13	15	17	25.5
	C2	10	8	9	10	13

220

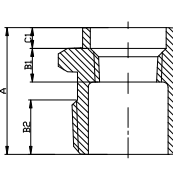
Socket



Size/规格	Inch	1/2	3/4	1	1 1/4	1 1/2
	mm	15	20	25	32	40
Dim./尺寸 (mm)	A	48	54	60	69	74.5
	B	11	13	15	17	18
	C	7	8	9	10	10
Size/规格	Inch	2	3	4	6	
	mm	50	80	100	150	
Dim./尺寸 (mm)	A	86	106.5	121.5	146.5	
	B	20	25.5	28.5	33	
	C	11	13	14	15	

241

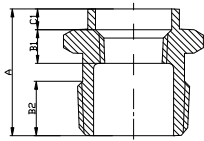
Bushing



Size/规格	Inch	3/4X1/2	1X1/2	1X3/4	1 1/4X3/4	1 1/4X1
	mm	20X15	25X15	25X20	32X20	32X25
Dim./尺寸 (mm)	A	38	42	42	49	50
	B1	11	11	14.5	13	17
	C1	7	7	7	8	9
	B2	14.5	17	17	19	19
Size/规格	Inch	1 1/2X3/4	1 1/2X1	1 1/2X1 1/4	2X3/4	2X1
	mm	40X20	40X25	40X32	50X20	50X25
Dim./尺寸 (mm)	A	49	50	51	56	57
	B1	13	15	19	13	15
	C1	8	9	10	8	9
	B2	19	19	19	22	22

241

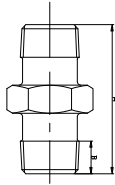
Bushing



Size/规格	Inch	2X11/4	2X11/2	3X1	3X11/2	3X2
	mm	50X32	50X40	80X25	80X40	80X50
Dim./尺寸 (mm)	A	58	58	66	67	68
	B1	17	18	15	18	20
	C1	10	10	9	10	11
	B2	22	22	31	31	31
Size/规格	Inch	4X3	6X3	6X4		
	mm	100X80	150X80	150X100		
	A	78	93	94		
	B1	25.5	25.5	28.5		
Dim./尺寸 (mm)	C1	13	13	14		
	B2	36	41	41		

280

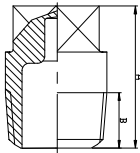
Hexagon Nipple



Size/规格	Inch	1/2	3/4	1	11/4	11/2
	mm	15	20	25	32	40
Dim./尺寸 (mm)	A	58	64	71	80	81
	B	13	14	16	19	19
Size/规格	Inch	2	3	4	6	
	mm	50	80	100	150	
Dim./尺寸 (mm)	A	94	110	130	146	
	B	23	29	35	40	

291

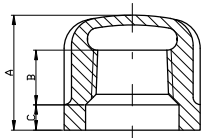
Plug



Size/规格	Inch	1/2	3/4	1	11/4	11/2
	mm	15	20	25	32	40
Dim./尺寸 (mm)	A	30	34.5	40	44.5	46.5
	B	15	16.5	19	21.5	21.5
Size/规格	Inch	2	3	4	6	
	mm	50	80	100	150	
Dim./尺寸 (mm)	A	51.5	65	76	87.5	
	B	25.5	33	39	43.5	

300

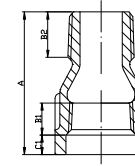
Cap



Size/规格	Inch	1/2	3/4	1	11/4	11/2
	mm	15	20	25	32	40
Dim./尺寸 (mm)	A	28	33	38	41	44
	B	11	13	15	17	18
	C	7	8	9	10	10
Size/规格	Inch	2	3	4		
	mm	50	80	100		
Dim./尺寸 (mm)	A	49	59	70		
	B	20	25.5	28.5		
	C	11	13	14		

529A

Long Extension Piece



Size/规格	inch	1/2	3/4	1			
	mm	15	20	25			
Dim./尺寸 (mm)	A	50.5	58	66			
	B1	11	13	15			
	C1	7	8	9			
	B2	15	18	20			

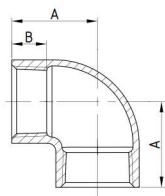
Malleable Iron Plain End Fittings

BS Standard



90

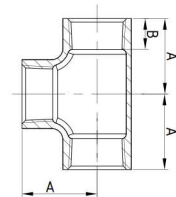
Elbow, 90°



Size/规格	Inch	1/2	3/4	1		
	mm	15	20	25		
Dim./尺寸 (mm)	A	27	32	38		
	B	11	13	15		
Size/规格	Inch					
	mm					
Dim./尺寸 (mm)	A					
	B					

130

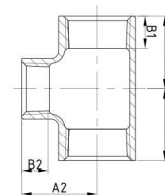
Tee



Size/规格	Inch	1/2	3/4	1		
	mm	15	20	25		
Dim./尺寸 (mm)	A	27	32	38		
	B	11	13	15		
Size/规格	Inch					
	mm					
Dim./尺寸 (mm)	A					
	B					

130R

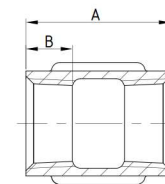
Reducing Tee



Size/规格	Inch	3/4X1/2	1X3/4			
	mm	20X15	25X20			
Dim./尺寸 (mm)	A1	29.5	31.5			
	B1	13	15			
	A2	30.5	33			
	B2	11	13			

220

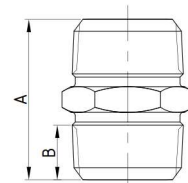
Socket



Size/规格	Inch	1/2	3/4	1	1 1/2	
	mm	15	20	25	40	
Dim./尺寸 (mm)	A	34	37	40	44	
	B	11	13	15	18	
Size/规格	Inch					
	mm					
Dim./尺寸 (mm)	A					
	B					

280

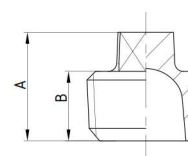
Hexagon Nipple



Size/规格	Inch	3/4	1			
	mm	20	25			
Dim./尺寸 (mm)	A	44	50			
	B	15	18			
Size/规格	Inch					
	mm					
Dim./尺寸 (mm)	A					
	B					

291

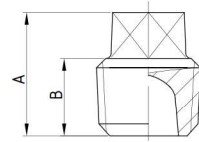
Plug



Size/规格	Inch	1/2	3/4	1		
	mm	15	20	25		
Dim./尺寸 (mm)	A	19.5	21	24		
	B	12.5	14	16.5		
Size/规格	Inch					
	mm					
Dim./尺寸 (mm)	A					
	B					

291LM

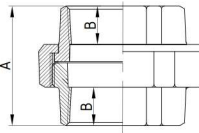
Plug



Size/规格	Inch	1/2				
	mm	15				
Dim./尺寸 (mm)	A	25				
	B	15				
Size/规格	Inch					
	mm					
Dim./尺寸 (mm)	A					
	B					

330

Flat Seat Union



Size/规格	Inch	3/4	1			
	mm	20	25			
Dim./尺寸 (mm)	A	43	45.5			
	B	13	15			
Size/规格	Inch					
	mm					
Dim./尺寸 (mm)	A					
	B					

Basic Dimension for British and Din Standard Pipe Threads

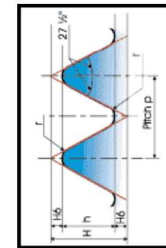


Fig 1 - Parallel thread
H = 0.960491 P
h = 0.640327 P
r = 0.137329 P

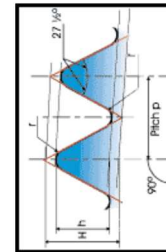
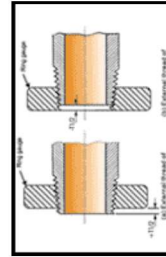


Figure 2 - Taper thread
H = 0.960327 P
h = 0.640327 P
r = 0.137278 P



(a) External thread of maximum gauge length
(b) External thread of minimum gauge length

International Standard ISO7/1, Pipe Threads Dimensions

International Standard ISO 1171. Pipe Turrets Dimensions																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Designations of thread size	Number of threads in 25.4 mm	Pitch P	Height of thread h	Diameters at gauge plane				Gauge Length (external thread)				Tolerance on position of gauge		Dimensions in millimeters		
				Major gauge diameter d	Pitch d2	Minor d1	Nominal	Tolerance $\pm T/2$		Minimum	Tolerance $\pm T/2$	For Nominal gauge length	For maximum gauge length	For minimum gauge length		
								Maximum	Turns of threads						Turns of threads	
																Maximum
1/8	28	0.907	0.581	9.728	9.147	8.566	4	0.9	1	4.9	3.1	1.1	1.14	6.5	7.4	5.6
1/4	19	1.337	0.856	13.157	12.301	11.445	6	1.3	1	7.3	4.7	1.7	1.74	9.7	11	8.4
3/8	19	1.337	0.856	16.662	15.806	14.945	8.2	1.6	1	7.7	5.1	1.7	1.74	10.1	11.4	8.8
1/2	14	1.814	1.162	20.955	19.831	18.611	8.2	1.8	1	10	6.4	2.3	1.74	13.2	15	11.4
3/4	14	1.814	1.162	26.441	25.279	24.117	9.5	1.8	1	10	7.7	2.3	1.74	14.5	16.3	12.7
1	11	2.309	1.479	31.777	30.291	28.805	10.4	2.3	1	12.7	8.1	2.9	1.74	16.8	19.1	14.5
1 1/4	11	2.309	1.479	38.249	36.763	35.277	12.7	2.3	1	15	10.4	2.9	1.74	19.1	21.4	16.8
1 1/2	11	2.309	1.479	47.803	46.324	44.845	12.7	2.3	1	15	10.4	2.9	1.74	19.1	21.4	16.8
2	11	2.309	1.479	59.614	58.135	56.656	15.9	2.3	1	18.2	13.6	2.9	1.74	23	25.7	21.1
2 1/2	11	2.309	1.479	75.184	73.705	72.226	17.5	2.3	1	21	14	3.5	1.72	26.7	30.2	25.2
3	11	2.309	1.479	97.884	96.405	94.926	20.6	3.5	1	24.1	17.1	3.5	1.72	29.8	33.3	28.3
4	11	2.309	1.479	119.551	118.072	116.593	23.9	3.5	1	28.6	21.9	3.5	1.72	35.8	39.3	33.3
5	11	2.309	1.479	145.83	144.351	142.872	27.6	3.5	1	32.1	25.1	3.5	1.72	40.1	43.6	36.6
6	11	2.309	1.479	163.53	162.051	160.572	28.6	3.5	1	32.1	25.1	3.5	1.72	40.1	43.6	36.6

Note: This information is selected from the International Standard ISO7/1:2000: Pipe threads where pressure - tight joints, Table 1

Technical Standard For Malleable Steel Pipe Fitting

1) Product standards

BS EN 10242:1995, DIN EN 10242:1995
 ASME B16.3-2016, ASME B16.14-2013, ASME B16.39-2014

2) Material

BS EN 1562, DIN EN 1562, EN-GJMB-350-10
 ASTM A197/A197M-2015, ASTM A47/A47M-2014

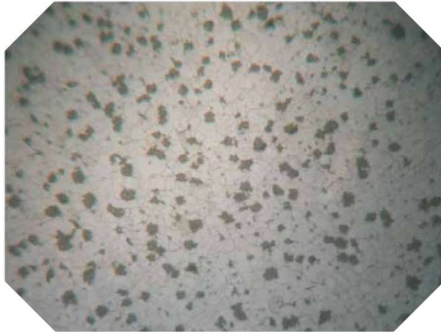
3) Thread

ISO7-1:1994 (BS/DIN)
 ANSI/ASME B1.20.1 (NPT)

4) Chemical and Mechanical Properties

CHEMICAL PROPERTIES					PHYSICAL PROPERTIES	
C %	Si %	Mn %	P%	S%	TENSILE STRENGTH	ELONGATION
2.4-2.9	1.4-1.9	0.4-0.65	<0.1	<0.2	>=350 Mpa	>=10%

HARDNESS: <150HB



5) Dimensions

Fittings Size (inch)	1/8	1/4	3/8	1/2	3/4	1	1-1/4
DN (mm)	6	8	10	15	20	25	32

Fittings Size (inch)	1-1/2	2	2-1/2	3	4	5	6
DN (mm)	40	50	65	80	100	125	150

6) Pressure-Temperature Ratings

Temperature, °C	Class 150, psig	Class 300, psig		
		Size	Size	Size
-29 to 66	300	2000	1500	1000
100	265	1785	1350	910
125	225	1575	1200	825
150	185	1360	1050	735
175	150 Note(1)	1150	900	650
200	20 to 150	935	750	580
225	20 to 150	725	600	475
250	20 to 150	510	450	385
275	20 to 150	300	300	300

7) Tolerances

BS&DIN

Dimension	Tolerance(mm)	Tolerance(in)
≤30	±1.5	±0.06
30-50	±2.0	±0.08
50-75	±2.5	±0.10
75-100	±3	±0.12
100-150	±3.5	±0.14
150-200	±4	±0.16

American

NPS	Tolerance(mm)	Tolerance(in)
1/8	±0.76	±0.03
1/4	±1	±0.04
3/8	±1.27	±0.05
1/2, 3/4	±1.52	±0.06
1, 1-1/4	±1.77	±0.07
1-1/2, 2	±2	±0.08
2-1/2, 3, 3-1/2	±2.54	±0.10
4, 5	±3	±0.12
6	±3.55	±0.14

8) Malleable iron threaded pipe fittings cannot be connected with products with high electronegativity such as stainless steel and copper.

Installation & Maintenance Instruction for Malleable Iron Fittings

• Precautions before Installation

Before installation, visually inspect the thread quality of the fittings or the pipe, the teeth are full, no iron filings, etc., no rust, no bumps on the first three threads, no broken teeth and other defects affecting the installation and complete connection of the outlet threads.
 (pay special attention to the unions' ball cone seal, cone seal or ball seal joint, please check the seal surface for bumps, scratches or other defects that affect the seal before installation).

• Installation



1) Choose the Correct Size Fittings and The right tools, Prepare fittings with the same specifications and threading standards.



3) Wrap sealing tap

Thread fitting body should be wrapped with PTFE tape or other raw material. The raw material tape needs to be wound in the direction of the thread, if the direction reversed, the sealing performance is greatly reduced. It is recommended to start winding from the second wire at the beginning of the thread. Check the inner and outer screw sleeves before winding the raw material belt. If it is loose, then the raw material belt should be entangled more. Otherwise, it will be less entangled.

• Maintenance

- Before normal use, the test pressure should be tested according to the corresponding test pressure. If the thread leakage phenomenon is found, the tube clamp can be used to continue tightening the 1-2 buckle(circle).
- The end face of the steel pipe connected to the pipe fitting must be flush, the thread should not be slanted, and there should be no ellipse or bending phenomenon, otherwise the pipe will not be straight after connection.
- When tightening with wrench, pay attention to the card to prevent the product from being broken due to screwing of the square side. The best installation method is to fix the pipe fitting and twist the steel pipe to ensure the product is not damaged.



2) Clean the Pipe thread

Check the thread quality of the fittings to be installed, and wipe the dirt in the thread with a clean rag.



4) Attach the Pipe Fitting

Screw the inner and outer threads by hand, Tighten the fittings 2-4 turns with pipe wrench.

Torque Data

• According to the size of the pipe fittings, the recommended installation tightening torque data is as follows:

Size	1/8	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½	3	4
Installation torque N·m	-	-	-	60~90	60~90	80~110	90~130	140~180	180~220	200~240	220~260	300~400