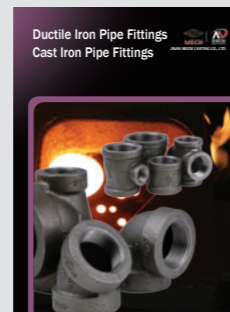
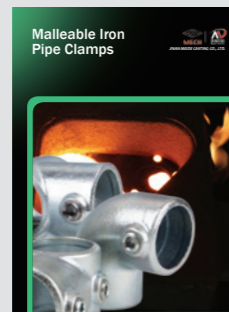
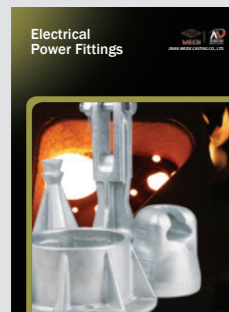
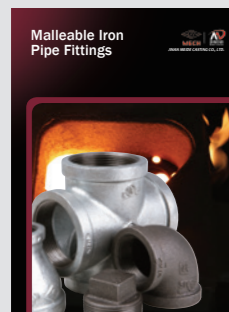


Malleable Iron Pipe Fittings

DIN Standard

MECH FLOW SUPPLIES



JINAN MEIDE CASTING CO., LTD.

Address: No.3 Nanmen Road Pingyin, Jinan, China 250400

Phone: (86)531 87879384 87885036 87885067

Fax: (86)531 87879387

Email: jtimech@meide-casting.com

[Http://www.meide-casting.com](http://www.meide-casting.com)

More than 50 years of Foundry Experience

Company Profile

Jinan Meide Casting Co. Ltd. was established in 1962. In the past decades, Jinan Meide has seized each opportunity to consolidate its strength, and has finally developed into what it is today, a large-scale enterprise group with advanced technology, equipment and strong comprehensive strength, known for its complete range of products, large producing capacity, high quality and strong R&D strength. The company owns altogether one main factory, three branch factories, two independent accounting steel pipe companies, and a science & technology park.

The company is the largest manufacturer in the fitting industry with the most complete range of products, supplying malleable iron fittings, grooved fittings, grooved couplings, valves, cast iron fittings, ductile iron fittings, steel pipe nipples and couplings, stainless steel nipples, brass pipe nipples, cast bronze fittings, steel pipes, pipe hangers and supports, electric fittings, etc.

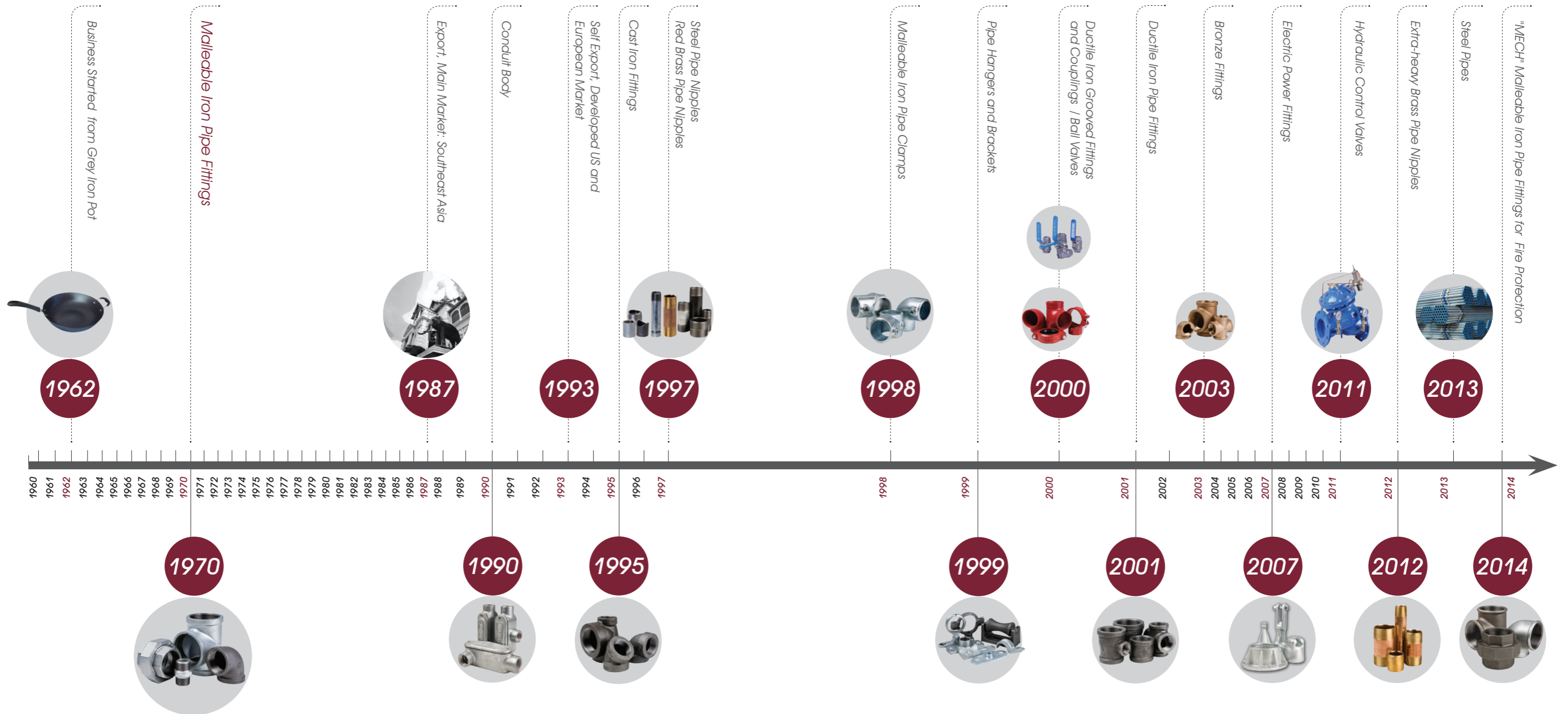
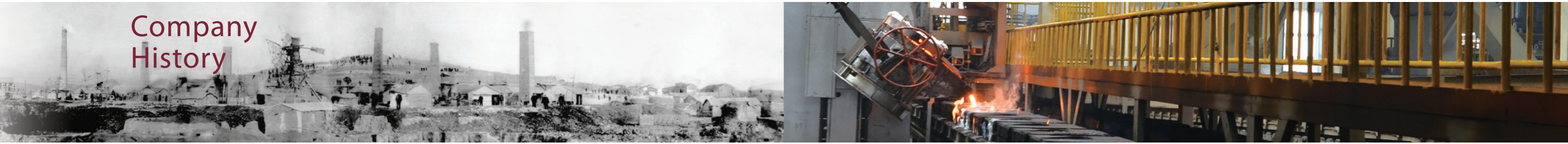
Over 50 years, Jinan Meide has been a trusted name in piping solutions by offering high-quality products, service and support to the PVF industry continuously. We provide expertise and product solutions for a wide range of applications, plumbing, mechanical, industrial, air-conditioning and refrigeration, mining, oil, gas, fire protection, equipment and power system. Many of the company's application technology are advanced in the world, with more than 20 patents registered each year, and the company has presided over and participated in the drafting of many important national standards of the industry.

We organize the whole production process in accordance with ISO 9001 and ISO 14001. It has also the most complete certificates in the PVF industry, including UL/FM/NSF of US, CRN/cUL of Canada, DVGW/TUV/CE/VdS of Germany, BSI/LPCB of UK, SII of Israel, JIS of Japan, ABNT of Brazil, GOST-R of Russia, CNBOP of Poland, KS of South Korea, TSE of Turkey, PSB of Singapore, SIRIM of Malaysia, SABS of South Africa etc. The products are well distributed in more than 130 countries and regions.

As an industry leader and key high-tech enterprise of the national torch plan, the company attaches great importance to environmental protection, energy-saving and emission-reduction. US-EEC recognizes MECH brand malleable iron pipe fittings as "the product to promote for the technology exchange of environmental protection". Protecting the environment is the duty of the company.

Customer satisfaction has always been the company's top objective, and we constantly stick to the principle: to provide customers with a value-added solution rather than simply delivering products.

Company History



State of the Art Equipment

High precision equipment is quality assurance. Jinan Meide's 7 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



Tokyu AMF-111055



DISA



Sinto FCMX



Melting



Pouring



Annealing



End Grinding Line



Warehouse



Threading, Air Pressure Test, and Anti-rust Treatment

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.

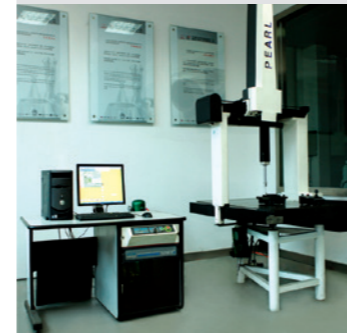
From incoming inspection to finished product, quality is checked and monitored in the whole process. Each step of the manufacturing process is carefully documented, regularly reviewed for revision control and updating standard. Quality procedures are constantly monitored and updated to assure that only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



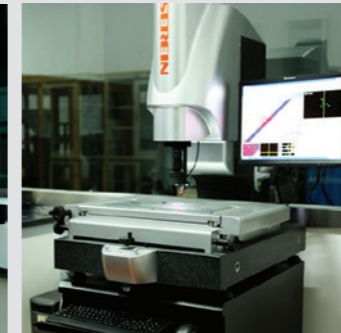
Metallurgical Microscope



Spectrometer



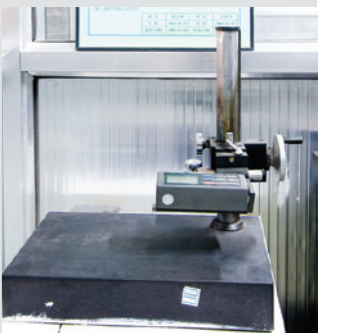
CMM



Projector



The Length of The Test Instrument



Roughness Tester



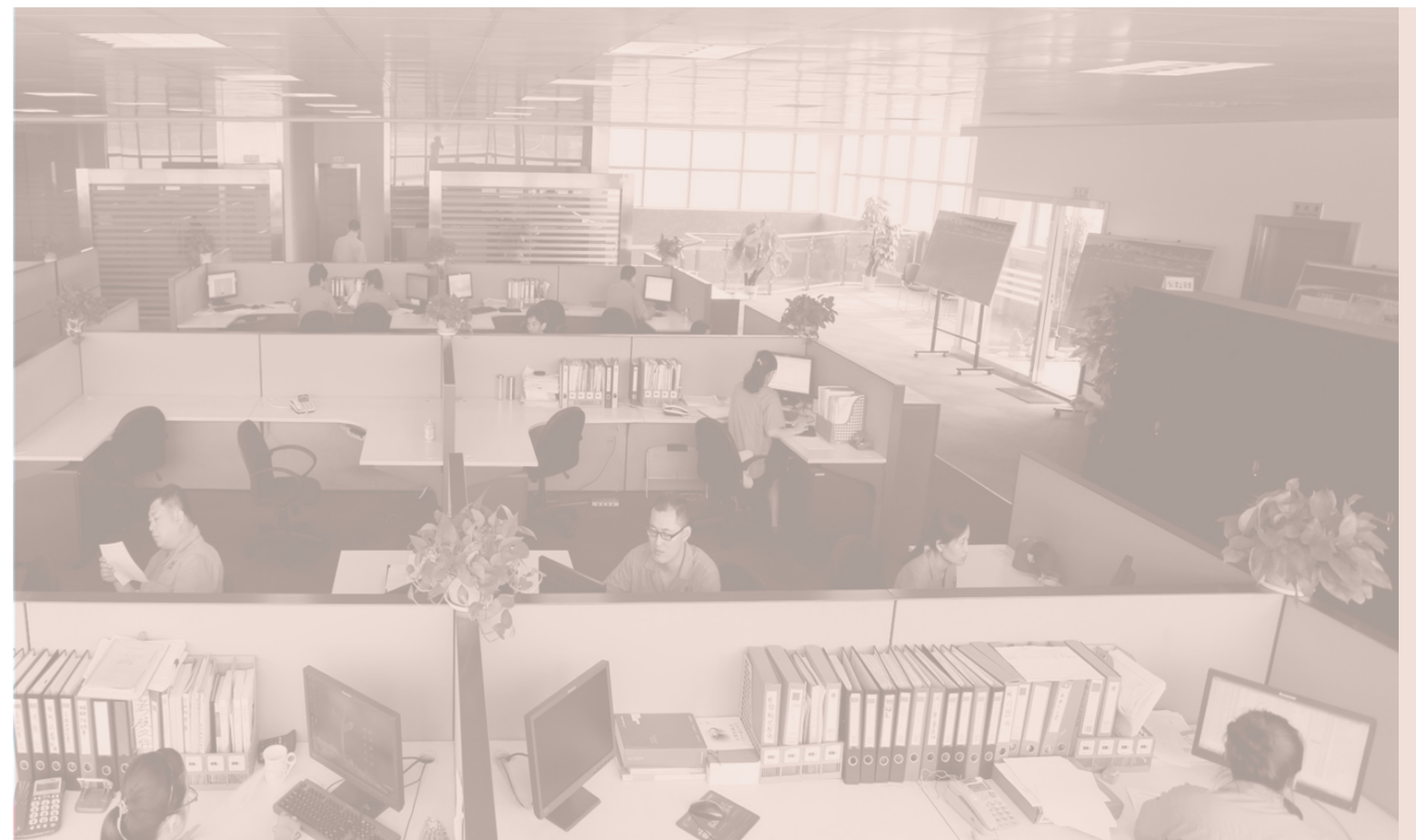
Carbon Sulfur Analyzer



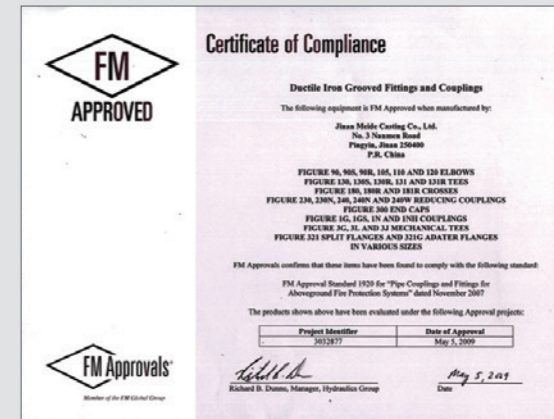
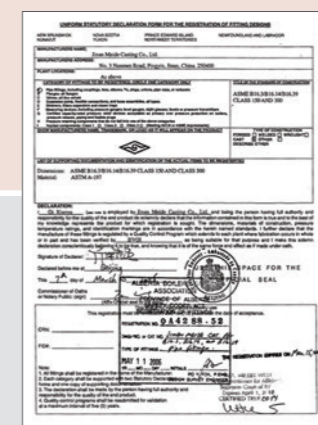
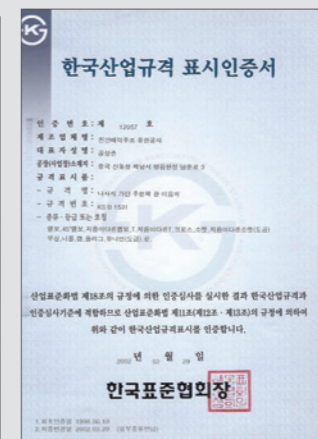
Tensile Strength Testing Equipment



Sand Testing Instrument



Certificates



Malleable Iron Pipe Fittings

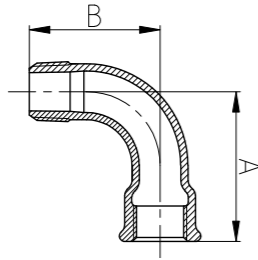
DIN Standard

Material: ASTM A-197, ASTM A47, DIN EN 1562
 Dimensions: DIN EN10242
 Threads: ISO7-1
 Size Available: 1/8" - 6"



1#

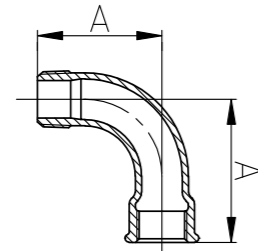
Bend 90°, M&F



Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	35	40	48	55	69	85
	B	32	36	42	48	60	75
Size	Inch	1 1/4	1 1/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	105	116	140	176	205	260
	B	95	105	130	165	190	245

1A

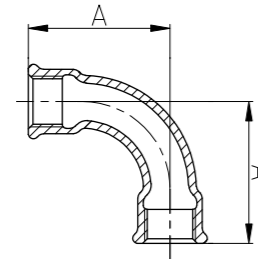
Short Bend 90°, M&F



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	

2#

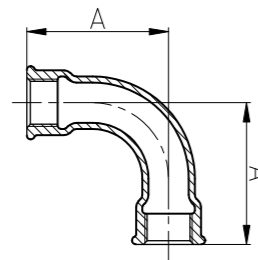
Bend 90°, female



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	

2A

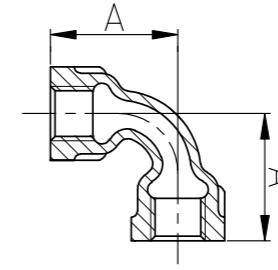
Short Bend 90°, female



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			

2AF

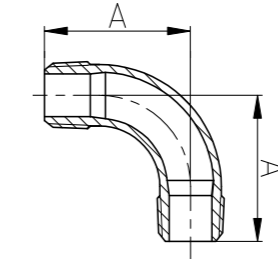
Short Bend 90°, female, banded



Size	Inch	1/4	1/2	3/4	1	1 1/4	1 1/2
	mm	8	15	20	25	32	40
Dim. (mm)	A	30	45	50	63	76	85
Size	Inch	2	2 1/2	3			
	mm	50	65	80			
Dim. (mm)	A	102	115	138			

3#

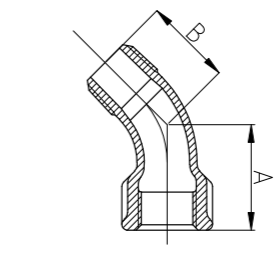
Bend 90°, male



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	36	42	48	60	75	95
Size	Inch	1 1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	105	130	165	190	245	

40

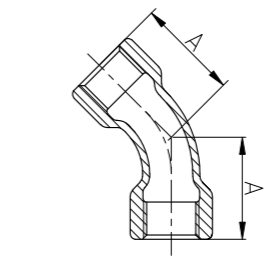
Bend 45°, M&F



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

41

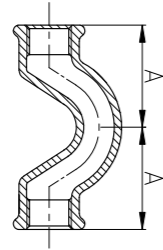
Bend 45°, female



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
Size	Inch	1 1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	68	81	99	113	142	

85

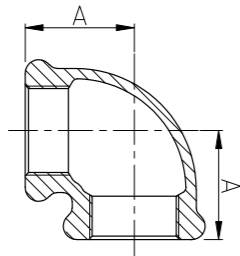
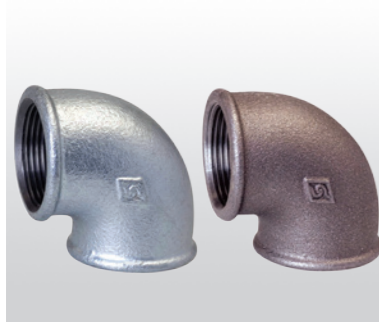
Crossover



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	115.5
Size	Inch						
	mm						
Dim. (mm)	A						

90

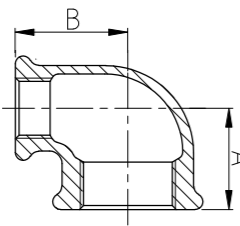
Elbow, 90°, equal



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
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

90R

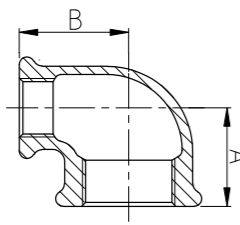
Reducing Elbow, 90°



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	23	26	26	28	30
	B	23	26	26	28	31
Size	Inch	1X1/2	1X3/4	1 1/4X1/2	1 1/4X3/4	1 1/4X1
	mm	25X15	25X20	32X15	32X20	32X25
Dim. (mm)	A	32	35	34	36	40
	B	34	36	38	41	42

90R

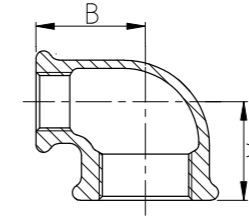
Reducing Elbow, 90°



Size	Inch	1 1/2X1/2	1 1/2X3/4	1 1/2X1	1 1/2X1 1/4	2X1/2
	mm	40X15	40X20	40X25	40X32	50X15
Dim. (mm)	A	36	39	42	46	38
	B	42	44	46	48	48
Size	Inch	2X3/4	2X1	2X1 1/4	2X1 1/2	2 1/2X1
	mm	50X20	50X25	50X32	50X40	65X25
Dim. (mm)	A	40	44	56	52	56
	B	50	52	58	55	63

90R

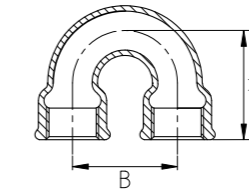
Reducing Elbow, 90°



Size	Inch	2 1/2X1 1/2	3X2 1/2	2 1/2X2	3X1 1/2	3X2
	mm	65X40	80X65	65X50	80X40	80X50
Dim. (mm)	A	64	82	61	58	73
	B	69	85	66	72	78
Size	Inch	4X2 1/2	4X3			
	mm	100X65	100X80			
Dim. (mm)	A	78	84			
	B	90	92			

90U

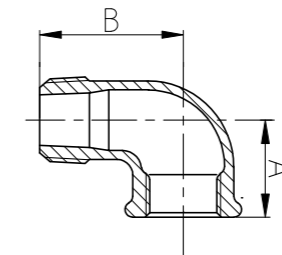
Return Bend



Size	Inch	3/4	1	1 1/2	2
	mm	20	25	40	50
Dim. (mm)	A	52	64	80	90
	B	50	64	89	102
Size	Inch				
	mm				
Dim. (mm)	A				
	B				

92

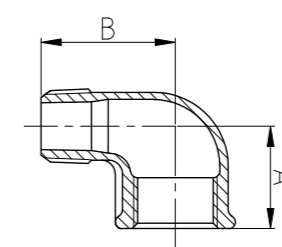
Street Elbow, 90°, equal



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
	B	25	28	32	37	43	52
Size	Inch	1 1/4	1 1/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	45	50	58	69	78	96
	B	60	65	74	88	98	118

92R

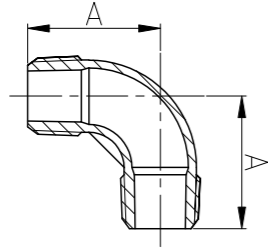
Reducing Street Elbow, 90°



Size	Inch	3/8X1/2	1/2X3/8	3/4X3/8	3/4X1/2
	mm	10X15	15X10	20X10	20X15
Dim. (mm)	A	28	26	28	30
	B	37	33	38	40
Size	Inch	1X3/4	1 1/4X1	1 1/2X1	1 1/2X1 1/4
	mm	25X20	32X25	40X25	40X32
Dim. (mm)	A	35	40	41	49
	B	46	56	59	61

94

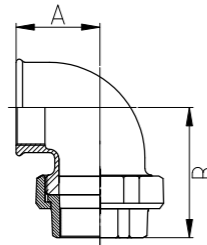
Elbow, 90° male



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	29	37	40	48	56	59
	B						
Size	Inch	2					
	mm	50					
Dim. (mm)	A	68					
	B						

95

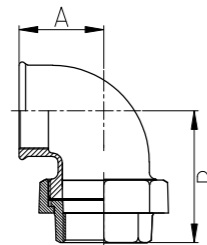
Union Elbow, F&F, flat seat without gasket



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	21	25	28	33	38	45
	B	48	52	58	62	72	82
Size	Inch	1 1/2	2	2 1/2	3		
	mm	40	50	65	80		
Dim. (mm)	A	50	58	78	83		
	B	90	100	112	131		

95D

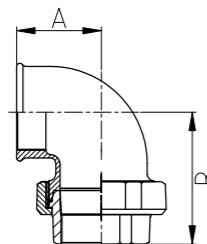
Union Elbow, F&F, flat seat with gasket



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	61	65	75	85	93	103
Size	Inch	2 1/2	3				
	mm	65	80				
Dim. (mm)	A	78	83				
	B	115	134				

96

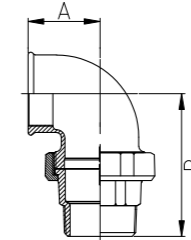
Union Elbow, F&F, conical joint iron to iron



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	21	25	28	33	38	45
	B	48	52	58	62	72	82
Size	Inch	1 1/2	2	2 1/2	3		
	mm	40	50	65	80		
Dim. (mm)	A	50	58	78	83		
	B	90	100	112	131		

97

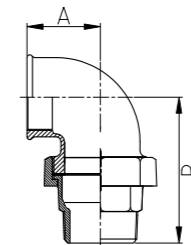
Union Elbow, M&F, flat seat without gasket



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	21	25	28	33	38	45
	B	61	65	76	82	94	107
Size	Inch	1 1/2	2	2 1/2	3		
	mm	40	50	65	80		
Dim. (mm)	A	50	58	78	83		
	B	115	128	145	161		

97D

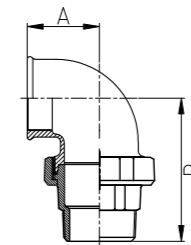
Union Elbow, M&F, flat seat with gasket



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	79	85	97	110	118	131
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

98

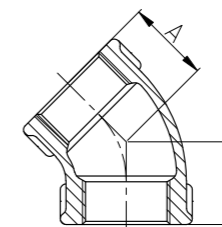
Union Elbow, M&F, conical joint iron to iron



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	21	25	28	33	38	45
	B	61	65	76	82	94	107
Size	Inch	1 1/2	2	2 1/2	3		
	mm	40	50	65	80		
Dim. (mm)	A	50	58	78	83		
	B	115	128	145	161		

120

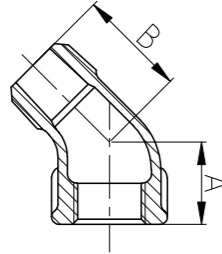
Elbow, 45°



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	17	20	22	25	28	33
	B						
Size	Inch	1 1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	36	43	49	55	66	
	B						

121

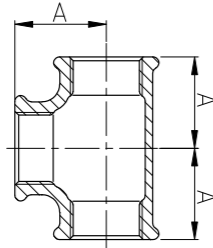
Street Elbow, 45°



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	20	22	25	28	33	36
	B	25	28	32	37	43	46
Size	Inch	2	2 1/2	3			
	mm	50	65	80			
Dim. (mm)	A	43	49	59			
	B	55	69	78			

130

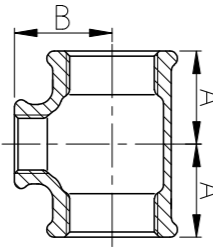
Tee



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
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

130R

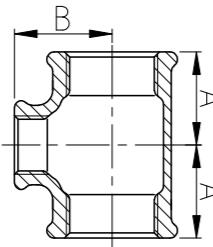
Reducing Tee



Size	Inch	3/8X1/4	1/2X1/4	1/2X3/8	3/4X1/4	3/4X3/8
	mm	10X8	15X8	15X10	20X8	20X10
Dim. (mm)	A	23	24	26	26	28
	B	23	24	26	27	28
Size	Inch	3/4X1/2	1X1/4	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

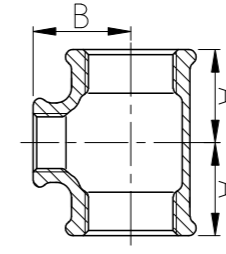
Reducing Tee



Size	Inch	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	34	36	40	36
	B	36	38	41	42	42
Size	Inch	1 1/2X3/4	1 1/2X1	1 1/2X1 1/4	2X1/2	2X3/4
	mm	40X20	40X25	40X32	50X15	50X20
Dim. (mm)	A	38	42	46	38	40
	B	44	46	48	48	50

130R

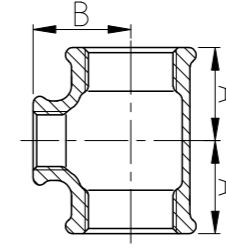
Reducing Tee



Size	Inch	2X1	2X1 1/4	2X1 1/2	2 1/2X1 1/2	2 1/2X3/4
	mm	50X25	50X32	50X40	65X15	65X20
Dim. (mm)	A	44	48	52	46	49
	B	52	54	55	55	58
Size	Inch	2 1/2X1	2 1/2X1 1/4	2 1/2X1 1/2	2 1/2X2	3X1 1/2
	mm	65X25	65X32	65X40	65X50	80X15
Dim. (mm)	A	47	52	55	61	50
	B	60	62	63	66	63

130R

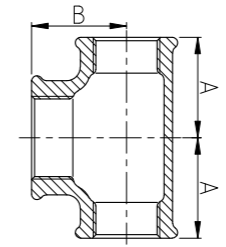
Reducing Tee



Size	Inch	3X3/4	3X1	3X1 1/4	3X1 1/2	3X2	3X2 1/2
	mm	80X20	80X25	80X32	80X40	80X50	80X65
Dim. (mm)	A	52	51	55	58	64	72
	B	64	67	70	71	73	76
Size	Inch	4X1	4X1 1/4	4X1 1/2	4X2	4X2 1/2	4X3
	mm	100X25	100X32	100X40	100X50	100X65	100X80
Dim. (mm)	A	56	60	61	70	78	84
	B	81	84	84	86	90	92

130R

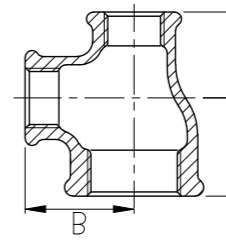
Reducing Tee



Size	Inch	3/8X1/2X3/8	1/2X3/4X1/2	1/2X1X1/2	3/4X1X3/4	1X1/4X1
	mm	10X15X10	15X20X15	15X25X15	20X25X20	25X32X25
Dim. (mm)	A	26	31	34	36	42
	B	26	30	32	35	40
Size	Inch	1X1 1/2X1	1 1/4X1 1/2X1 1/4	1 1/4X2X1 1/4	1 1/2X2X1 1/2	
	mm	25X40X25	32X40X32	32X50X32	40X50X40	
Dim. (mm)	A	46	48	54	55	
	B	42	46	48	52	

130R

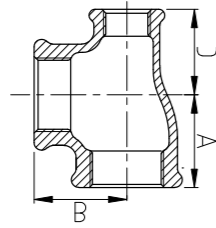
Reducing Tee



Size	Inch	1 1/2X3/8X3/8	3/4X1 1/2X1/2	1X1 1/2X1/2	1X3/4X3/4	1 1/4X3/4X3/4	1 1/4X1X1
	mm	15X10X10	20X15X15	25X15X15	25X20X20	32X20X20	32X25X25
Dim. (mm)	A	26	30	32	35	36	40
	B	26	31	34	36	41	42
	C	25	28	28	33	33	38
Size	Inch	1 1/2X1X1	1 1/2X1 1/4X1 1/4	2X1 1/4X1 1/4	2X1 1/2X1 1/2	2 1/2X2X2	3X2X2
	mm	40X25X25	40X32X32	50X32X32	50X40X40	65X50X50	80X50X50
Dim. (mm)	A	42	46	48	52	62	64
	B	46	48	54	55	68	73
	C	38	45	45	50	62	60

130R

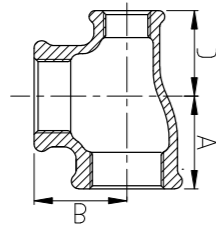
Reducing Tee



Size	Inch	1/2X1/2X3/8	3/4X3/4X3/8	3/4X3/4X1/2	1X1X3/8	1X1X1/2
	mm	15X15X10	20X20X10	20X20X15	25X25X10	25X25X15
	Dim. (mm)	A	28	33	33	38
	B	28	33	33	38	38
	C	26	28	31	32	34
Size	Inch	1X1X3/4	1 1/4X1 1/4X1/2	1 1/4X1 1/4X3/4	1 1/4X1 1/4X1	1 1/2X1 1/2X1/2
	mm	25X25X20	32X32X15	32X32X20	32X32X25	40X40X15
	Dim. (mm)	A	38	45	45	45
	B	38	45	45	45	50
	C	36	38	41	42	42

130R

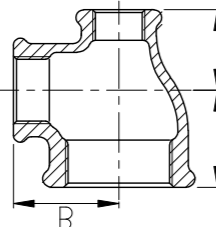
Reducing Tee



Size	Inch	1 1/2X1 1/2X3/4	1 1/2X1 1/2X1	1 1/2X1 1/2X1 1/4	2X2X1/2
	mm	40X40X20	40X40X25	40X40X32	50X50X15
	Dim. (mm)	A	50	50	50
	B	50	50	50	58
	C	44	46	48	48
Size	Inch	2X2X3/4	2X2X1	2X2X1 1/4	2X2X1 1/2
	mm	50X50X20	50X50X25	50X50X32	50X50X40
	Dim. (mm)	A	58	58	58
	B	58	58	58	58
	C	50	52	54	55

130R

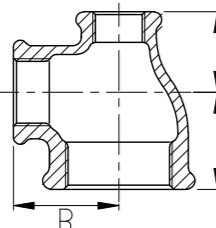
Reducing Tee



Size	Inch	3/4X1X1/2	1X1/2X3/4	1X3/4X1/2	1 1/4X1/2X3/4	1 1/4X1/2X1
	mm	20X25X15	25X15X20	25X20X15	32X15X20	32X15X25
	Dim. (mm)	A	36	32	35	35
	B	35	34	36	38	38
	C	34	30	31	29	32
Size	Inch	1 1/4X3/4X1	1 1/4X1X3/4	1 1/4X1 1/2X1	1 1/4X1 1/2X1	1 1/2X1 1/2X1 1/4
	mm	32X20X25	32X25X20	32X40X25	40X15X25	40X15X32
	Dim. (mm)	A	36	40	48	37
	B	41	42	46	41	42
	C	35	36	46	32	34

130R

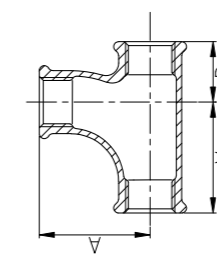
Reducing Tee



Size	Inch	1 1/2X3/4X1	1 1/2X3/4X1 1/4	1 1/2X1X1 1/4	1 1/2X1 1/4X1	1 1/2X2X1 1/4
	mm	40X20X25	40X20X32	40X25X32	40X32X25	40X50X32
	Dim. (mm)	A	40	38	42	46
	B	43	44	46	48	56
	C	35	36	40	42	55
Size	Inch	2X1/2X1 1/2	2X3/4X1 1/2	2X1X1 1/2	2X1 1/4X1 1/2	2X1 1/2X1
	mm	50X15X40	50X20X40	50X25X40	50X32X40	50X40X25
	Dim. (mm)	A	42	40	44	48
	B	47	50	52	54	57
	C	37	38	42	46	54

131

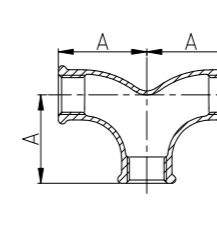
Pitcher Tee, 90°, equal



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
	B	24	28	33	40	43	53
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

132

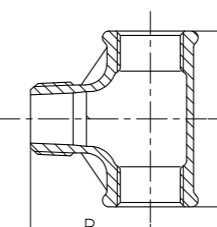
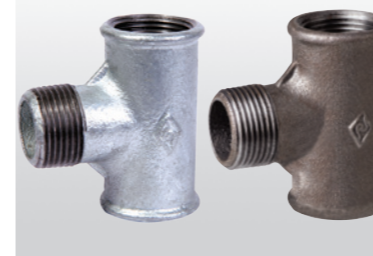
Twin Elbow, equal



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						
	mm						
Dim. (mm)	A						

133

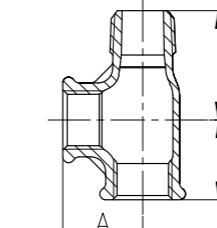
Tee, equal



Size	Inch	3/8	1/2	3/4	1		
	mm	10	15	20	25		
Dim. (mm)	A	22	25	33	39		
	B	31	38	45	53		
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

134

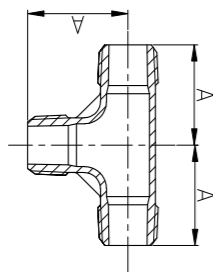
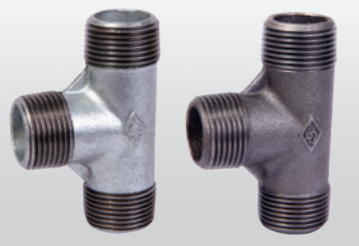
Tee, equal



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	27	33	37	45	50	59
	B	37	43	50	58	65	69
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

135

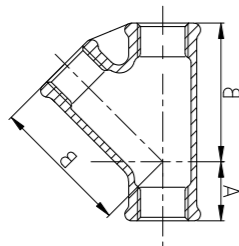
Tee, equal



Size	Inch	1/2	3/4	1			
	mm	15	20	25			
Dim. (mm)	A	37	43	48			
Size	Inch						
	mm						
Dim. (mm)	A						

165

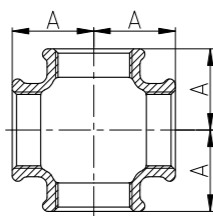
Lateral Y Branch, 45°



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	21	24	28	34	34	40
	B	56	64	77	91	98	106
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

180

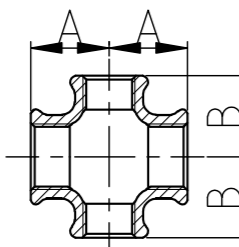
Cross



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	1 1/4	1 1/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	45	50	58	69	78	96

180R

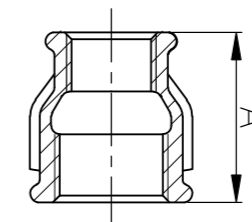
Reducing Cross



Size	Inch	3/4X1/2	1X1/2				
	mm	20X15	25X15				
Dim. (mm)	A	30	32				
	B	31	34				
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

240

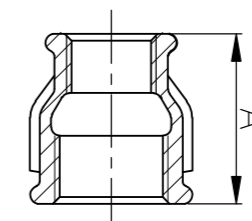
Reducing Socket



Size	Inch	3/8X1/8	3/8X1/4	1/2X1/4	1/2X3/8	3/4X1/4
	mm	10X6	10X8	15X8	15X10	20X8
Dim. (mm)	A	30	30	36	36	39
Size	Inch	3/4X3/8	3/4X1/2	1X3/8	1X1/2	1X3/4
	mm	20X10	20X15	25X10	25X15	25X20
Dim. (mm)	A	39	39	45	45	45

240

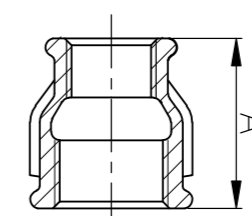
Reducing Socket



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	50	50	50	50	55
Size	Inch	1 1/2X3/4	1 1/2X1	1 1/2X1 1/4	2X1/2	2X3/4
	mm	40X20	40X25	40X32	50X15	50X20
Dim. (mm)	A	55	55	55	65	65

240

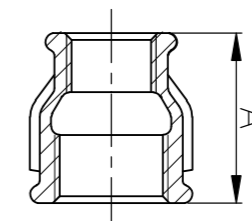
Reducing Socket



Size	Inch	2X1	2X1 1/4	2X1 1/2	2 1/2X1 1/2	2 1/2X3/4
	mm	50X25	50X32	50X40	65X15	65X20
Dim. (mm)	A	65	65	65	74	74
Size	Inch	2 1/2X1	2 1/2X1 1/4	2 1/2X1 1/2	2 1/2X2	3X1
	mm	65X25	65X32	65X40	65X50	80X25
Dim. (mm)	A	74	74	74	74	80

240

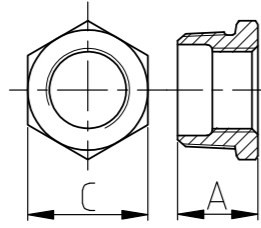
Reducing Socket



Size	Inch	3X1 1/4	3X1 1/2	3X2	3X2 1/2	4X1 1/2
	mm	80X32	80X40	80X50	80X65	100X40
Dim. (mm)	A	80	80	80	80	94
Size	Inch	4X2	4X2 1/2	4X3		
	mm	100X50	100X65	100X80		
Dim. (mm)	A	94	94	94		

241

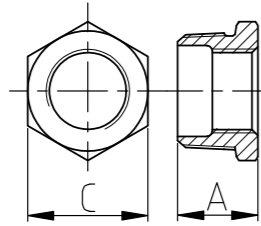
Bushing



Size	Inch	1/4X1/8	3/8X1/8	3/8X1/4	1/2X1/8	1/2X1/4
	mm	8X6	10X6	10X8	15X6	15X8
Dim. (mm)	A	20	20	20	24	24
	C	17	19	19	22	22
Size	Inch	1/2X3/8	3/4X1/4	3/4X3/8	3/4X1/2	1X1/4
	mm	15X10	20X8	20X10	20X15	25X8
Dim. (mm)	A	24	26	26	26	29
	C	22	30	30	30	36

241

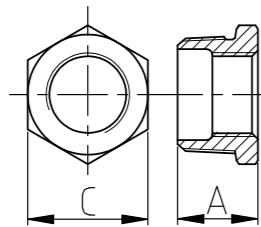
Bushing



Size	Inch	1X3/8	1X1/2	1X3/4	11/4X3/8	11/4X1/2
	mm	25X10	25X15	25X20	32X10	32X15
Dim. (mm)	A	29	29	29	31	31
	C	36	36	36	46	46
Size	Inch	11/4X3/4	11/4X1	11/2X1/2	11/2X3/4	11/2X1
	mm	32X20	32X25	40X15	40X20	40X25
Dim. (mm)	A	31	31	31	31	31
	C	46	46	50	50	50

241

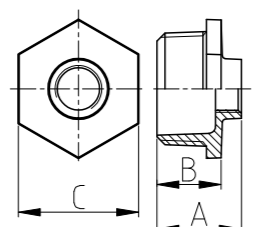
Bushing



Size	Inch	11/2X11/4	2X1	2X11/4	2X11/2	21/2X11/2
	mm	40X32	50X25	50X32	50X40	65X40
Dim. (mm)	A	31	35	35	35	40
	C	50	65	65	65	80
Size	Inch	21/2X2	3X2	3X21/2	4X3	
	mm	65X50	80X50	80X65	100X80	
Dim. (mm)	A	40	44	44	51	
	C	80	95	95	120	

241D

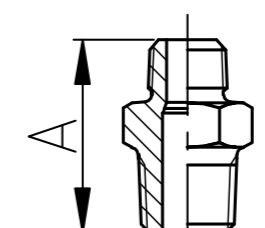
Bushing



Size	Inch	2X1/2	2X3/4	21/2X1	21/2X11/4	3X1
	mm	50X15	50X20	65X25	65X32	80X25
Dim. (mm)	A	48	48	54	54	59
	B	35	35	40	40	44
	C	65	65	80	80	95
Size	Inch	3X11/4	3X11/2	4X2	4X21/2	
	mm	80X32	80X40	100X50	100X65	
Dim. (mm)	A	59	59	69	69	
	B	44	44	51	51	
	C	95	95	120	120	

245

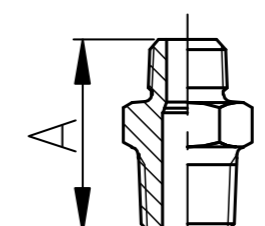
Reducing Nipple



Size	Inch	1/4X1/8	3/8X1/8	3/8X1/4	1/2X1/4	1/2X3/8
	mm	8X6	10X6	10X8	15X8	15X10
Dim. (mm)	A	31	34	38	44	44
Size	Inch	3/4X1/4	3/4X3/8	3/4X1/2	1X1/2	1X3/4
	mm	20X8	20X10	20X15	25X15	25X20
Dim. (mm)	A	36	47	47	53	53

245

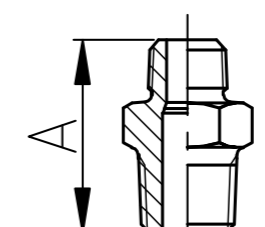
Reducing Nipple



Size	Inch	11/4X1/2	11/4X3/4	11/4X1	11/2X1/2	11/2X3/4
	mm	32X15	32X20	32X25	40X15	40X20
Dim. (mm)	A	57	57	57	59	59
Size	Inch	11/2X1	11/2X11/4	2X1/2	2X3/4	2X1
	mm	40X25	40X32	50X15	50X20	50X25
Dim. (mm)	A	59	59	68	68	68

245

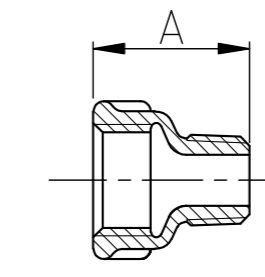
Reducing Nipple



Size	Inch	2X11/4	2X11/2	21/2X1	21/2X11/4	21/2X11/2	21/2X2
	mm	50X32	50X40	65X25	65X32	65X40	65X50
Dim. (mm)	A	68	68	75	75	75	75
Size	Inch	3X11/2	3X2	3X21/2	4X2	4X21/2	4X3
	mm	80X40	80X50	80X65	100X50	100X65	100X80
Dim. (mm)	A	83	83	83	87	87	87

246

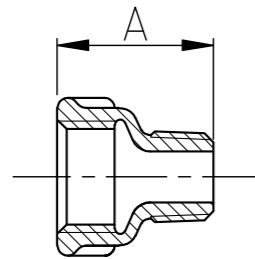
Reducing Extension piece, sockets M&F



Size	Inch	3/8X1/4	1/2X1/4	1/2X3/8	3/4X3/8	3/4X1/2	1X1/2
	mm	10X8	15X8	15X10	20X10	20X15	25X15
Dim. (mm)	A	35	43	43	48	48	55
Size	Inch	1X3/4	11/4X1/2	11/4X3/4	11/4X1	11/2X3/4	11/2X1
	mm	25X20	32X15	32X20	32X25	40X20	40X25
Dim. (mm)	A	55	60	60	60	63	63

246

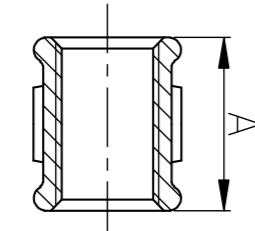
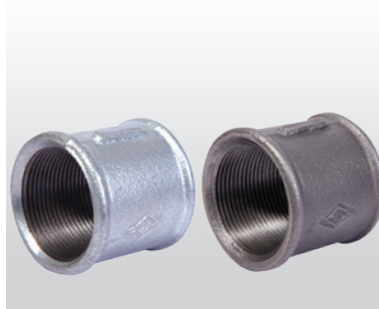
Reducing Extension piece, sockets M&F



Size	Inch	1 1/2X1 1/4	2X1/2	2X3/4	2X1	2X1 1/4
	mm	40X32	50X15	50X20	50X25	50X32
Dim. (mm)	A	63	70	70	70	70
Size	Inch	2X1 1/2	2 1/2X1 1/2	2 1/2X2	3X2	3X2 1/2
	mm	50X40	65X40	65X50	80X50	80X65
Dim. (mm)	A	70	74	74	80	81

270

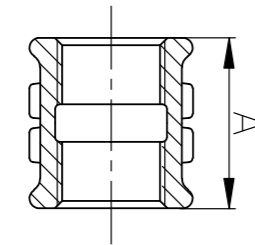
Socket, parallel threads, equal



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	102	110

271

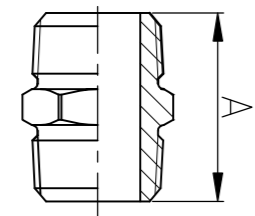
Socket, right&left hand thread



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	30	36	39	45	50	55
Size	Inch	2					
	mm	50					
Dim. (mm)	A	65					

280

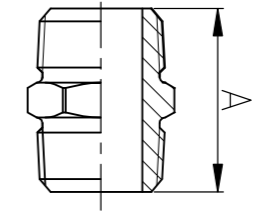
Hexagon Nipple, equal



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	1 1/2	2	2 1/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	59	68	75	83	95	103	115

281

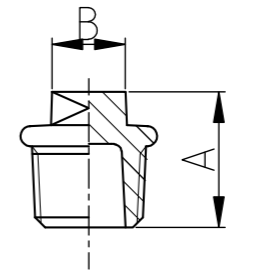
Hexagon Nipple, right&left hand thread



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	38	44	47	53	57	59
Size	Inch	2					
	mm	50					
Dim. (mm)	A	68					

290

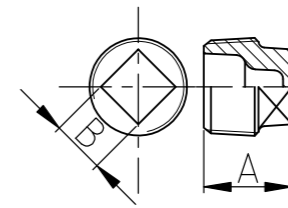
Plug, beaded



Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	20	22	24	26	32	36
	B	7	8	10	11	17	19
Size	Inch	1 1/4	1 1/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	39	41	48	54	60	70
	B	22	22	27	32	36	41

291

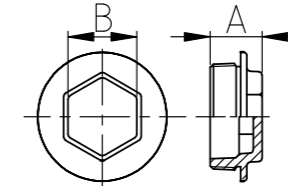
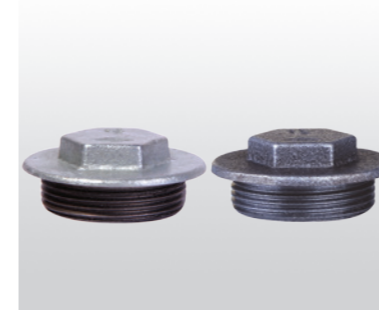
Plug, plain



Size	Inch	1	2 1/2	3			
	mm	25	65	80			
Dim. (mm)	A	23	39	44			
	B	19	32	36			
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

292

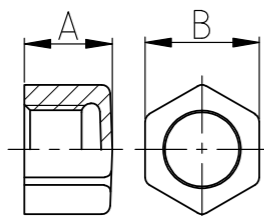
Special Plug



Size	Inch	1 1/2					
	mm	40					
Dim. (mm)	A	24					
	B	32					
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

300

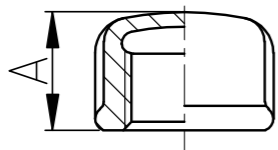
Octagonal Cap



Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	13	15	17	19	22	24
	B	15	18	22	26	32	39
Size	Inch	1 1/4	1 1/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	27	27	32	35	38	45
	B	48	54	66	84	96	123

301

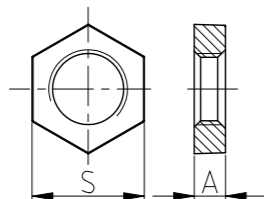
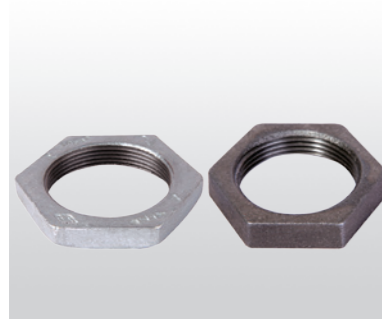
Round Cap



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	15	17	19	22	25	28
Size	Inch	1 1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	31	35	38	40	50	

310

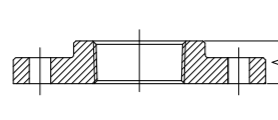
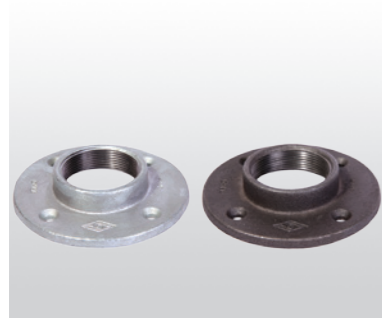
Backnut



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
	S	22	27	32	36	46	55
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	
	S	60	75	95	105	135	

321

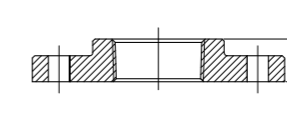
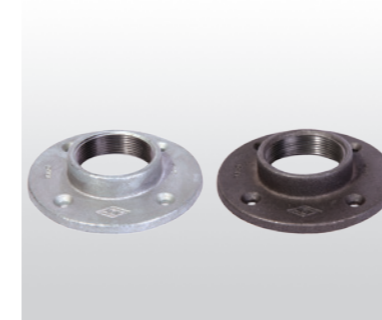
Round Flange, with 4 bolt holes



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	12	13	14	15	16	18
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	20	22	24			

321

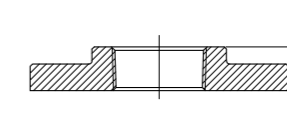
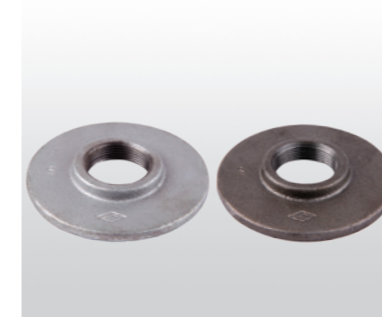
Round Flange, with 4 bolt holes



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	12	13	14	15	16	18
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	20	22	24			

321W

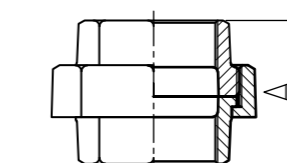
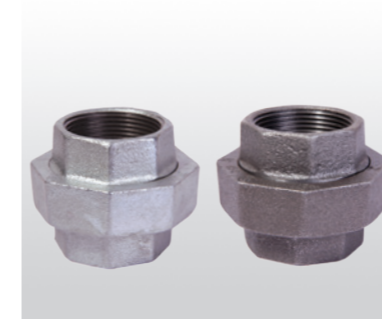
Round Flange, without bolt hole



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	12	13	14	15	16	18
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	20	22	24			

330

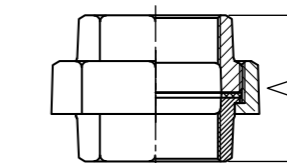
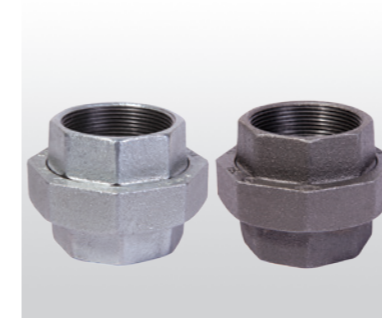
Union, flat seat, without gasket



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

330D

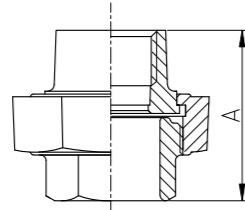
Union, flat seat, with gasket



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	45	48	51	55	61	68
Size	Inch	1 1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	73	81	88	98	113	

T330

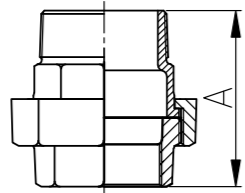
Special Union



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	45	54	60	65	66	66
Size	Inch	2 1/2	3				
	mm	65	80				
Dim. (mm)	A	71	74.5				

331

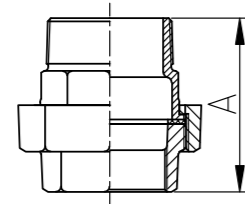
Union, M&F, flat seat without gasket



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	58	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	

331D

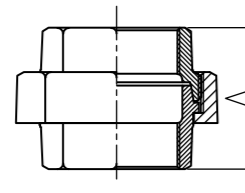
Union, M&F, flat seat, with gasket



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	58	61	69	75	83	93
Size	Inch	1 1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	98	109	121	133	136	

340

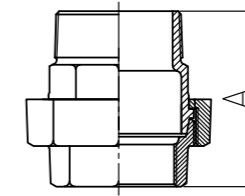
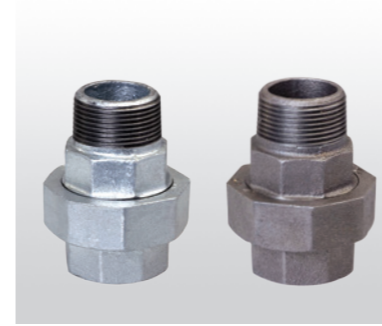
Union, conical joint iron to iron seat



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

341

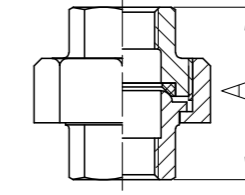
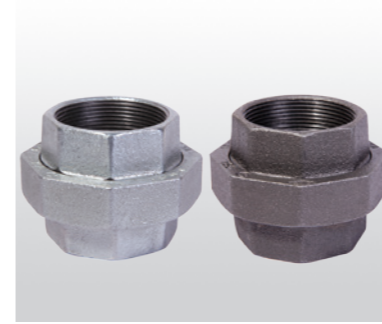
Union, M&F, conical joint, iron to iron seat



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	58	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

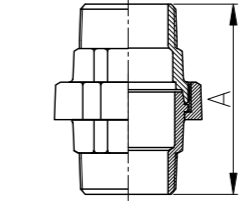
Union, conical joint, brass to iron seat



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	32	37	41	44	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	61.5	70	82	89	98	145	

344

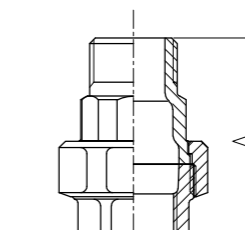
Union, M&M, taper seat



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	69	75	85	93	103	114
Size	Inch						
	mm						
Dim. (mm)	A						

345

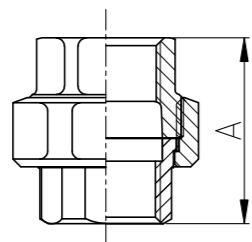
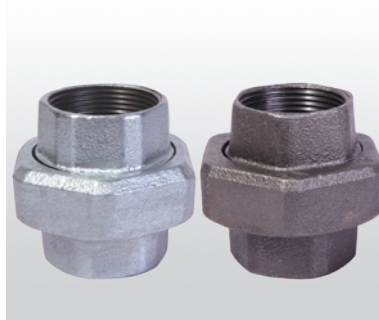
Union, M&F, flat seat



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	63	70	78	88	93	104
Size	Inch	2 1/2	3				
	mm	65	80				
Dim. (mm)	A	116	128				

346

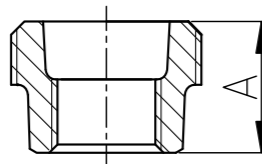
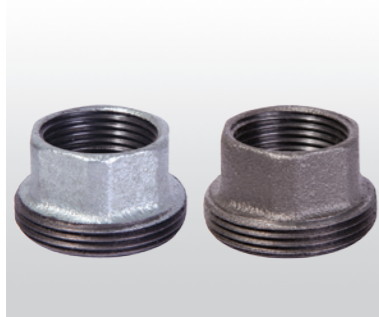
Union, flat seat



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	50	56	63	68	76
Size	Inch	2 1/2	3				
	mm	65	80				
Dim. (mm)	A	83	93				

370

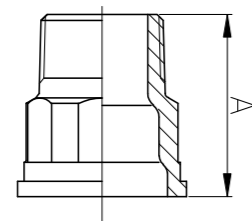
Union Bush Flat Seat



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	24	27	29.8	34	37	41
Size	Inch						
	mm						
Dim. (mm)	A						

371

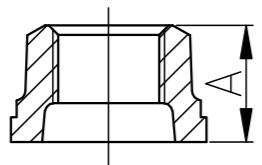
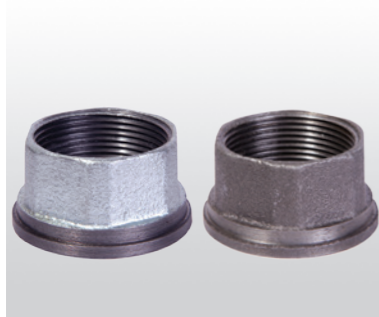
Union Tail Piece (Part of 331)



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	39	44	48	55	57	63
Size	Inch						
	mm						
Dim. (mm)	A						

372

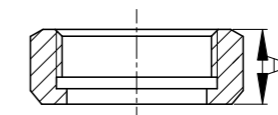
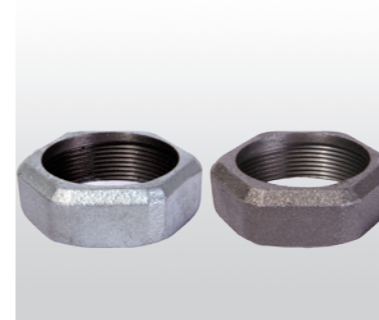
Union Tail Piece (Part of 330)



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	21	24	26	30	32	35
Size	Inch						
	mm						
Dim. (mm)	A						

374

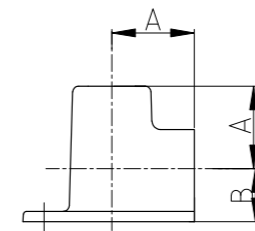
Union nut



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	16	17	18	20	22	24
Size	Inch	1 1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	25	27	30	31	36	

471

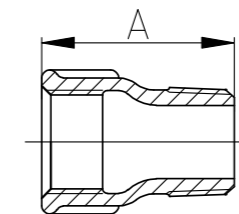
Bracket Elbow



Size	Inch	1/2	3/4	1			
	mm	15	20	25			
Dim. (mm)	A	28	33	38			
	B	18	20	23			
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

526

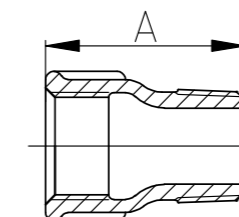
Extension Tube



Size	Inch	3/8x30	3/8x40	1/2x30	1/2x40	3/4x40	
	mm	10x30	10x40	15x30	15x40	20x40	
Dim. (mm)	A	30	40	30	40	40	
Size	Inch						
	mm						
Dim. (mm)	A						

529A

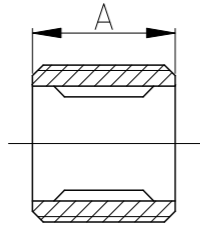
Extension Long Piece



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	35	43	48	55	60	63
Size	Inch	2					
	mm	50					
Dim. (mm)	A	70					

531

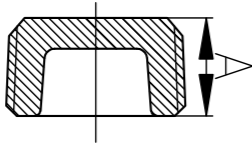
Nipple



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	23	25	30	35	40	45
Size	Inch	2	2 1/2	3	4		
	mm	50	65	80	100		
Dim. (mm)	A	50	56	69	82		

596

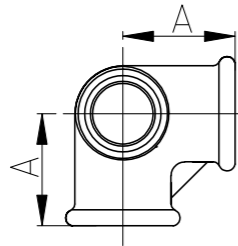
Plug, hexagon/square inside



Size	Inch	1	1 1/4	1 1/2			
	mm	25	32	40			
Dim. (mm)	A	19	22	22			
Size	Inch						
	mm						
Dim. (mm)	A						

1221

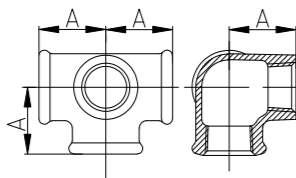
Side Outlet Elbow



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	25	28	33	38	45	50
Size	Inch	2					
	mm	50					
Dim. (mm)	A	58					

1223

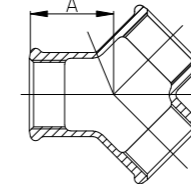
Side Outlet Tee



Size	Inch	1/2	3/4	1	1 1/4		
	mm	15	20	25	32		
Dim. (mm)	A	28	33	38	46		
Size	Inch						
	mm						
Dim. (mm)	A						

2220

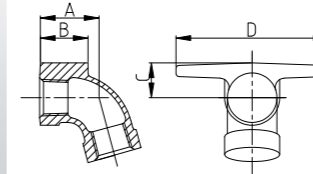
Y-piece



Size	Inch	3/8	1/2	3/4	1		
	mm	10	15	20	25		
Dim. (mm)	A (Min)	24	27	33	40		
Size	Inch						
	mm						
Dim. (mm)	A (Min)						

9015

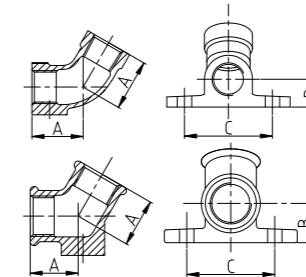
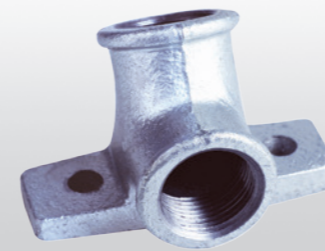
Drinking Nipple, 105°



Size	Inch	1/2					
	mm	15					
Dim. (mm)	A (Min)	32					
	B (Min)	22					
	C (Min)	19					
	D (Min)	77					

9030

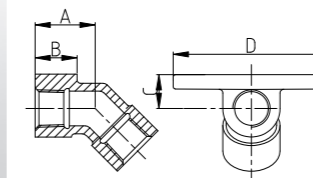
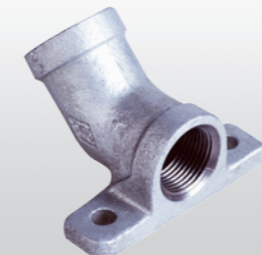
Drinking Nipple, 120°



Size	Inch	1/2	3/4				
	mm	15	20				
Dim. (mm)	A	32	30				
	B	19	25				
	C	55	55				

9045

Drinking Nipple, 135°



Size	Inch	1/2	3/4				
	mm	15	20				
Dim. (mm)	A (Min)	32	36				
	B (Min)	19	15				
	C (Min)	18	22				
	D (Min)	77	83				

Basic Dimension for British and Din Standard Pipe Threads

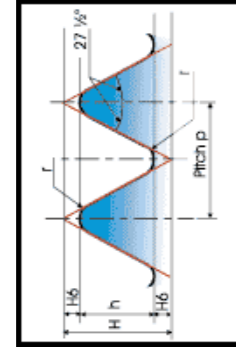
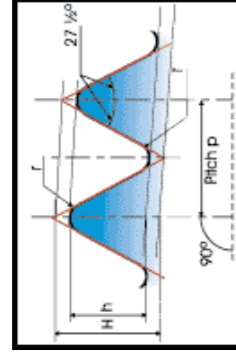
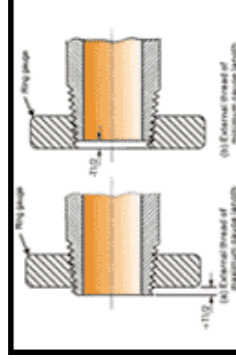


Fig 1 - Parallel thread
 $H = 0.960491 p$
 $h = 0.640327 p$
 $r = 0.137329 p$



Taper 2 - Taper thread
 $H = 0.960237 p$
 $h = 0.640327 p$
 $r = 0.137278 p$



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

International Standard ISO7/1, Pipe Threads Dimensions

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	Length of useful external thread not less than		For maximum gauge length	For minimum gauge length		
								Major (gauge diameter) d			Pitch d2	Minor d1												Nominal	Tolerance ±T/2
1/8	28	0.907	0.581	9.728	9.147	8.566	4	0.9	1	4.9	3.1	1.1	1.1/4	6.5	7.4	5.6									
1/4	19	1.337	0.856	13.157	12.501	11.445	6	1.3	1	7.3	4.7	1.7	1/4	9.7	11	8.4									
3/8	19	1.337	0.856	16.662	15.806	14.95	6.4	1.3	1	7.7	5.1	1.7	1/4	10.1	11.4	8.8									
1/2	14	1.814	1.162	20.955	19.793	18.631	8.2	1.8	1	10	6.4	2.3	1/4	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	1/4	14.5	16.3	12.7									
1	11	2.309	1.479	33.249	31.77	30.291	10.4	2.3	1	12.7	8.1	2.9	1/4	16.8	19.1	14.5									
1 1/4	11	2.309	1.479	41.91	40.431	38.952	12.7	2.3	1	15	10.4	2.9	1/4	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	1/4	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	1/4	23	25.7	21.1									
2 1/2	11	2.309	1.479	75.184	73.705	72.226	17.5	3.5	1 1/2	21	14	3.5	1 1/2	26.7	30.2	23.2									
3	11	2.309	1.479	87.884	86.405	84.926	20.6	3.5	1 1/2	24.1	17.1	3.5	1 1/2	29.8	33.3	26.3									
4	11	2.309	1.479	113.03	111.551	110.072	25.4	3.5	1 1/2	28.9	21.9	3.5	1 1/2	35.8	39.3	32.3									
5	11	2.309	1.479	138.43	136.951	135.472	28.6	3.5	1 1/2	32.1	25.1	3.5	1 1/2	40.1	43.6	36.6									
6	11	2.309	1.479	163.83	162.351	160.872	28.6	3.5	1 1/2	32.1	25.1	3.5	1 1/2	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 Table 1