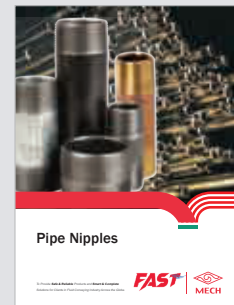
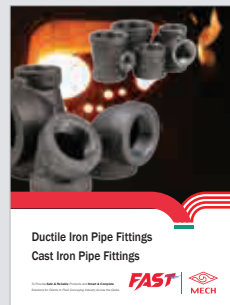
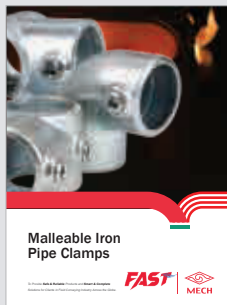
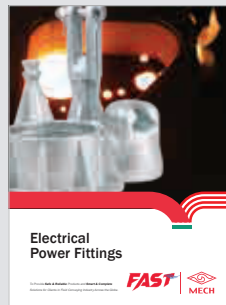
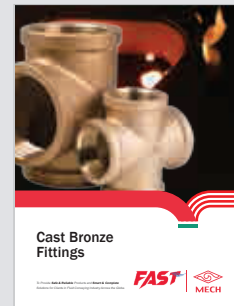
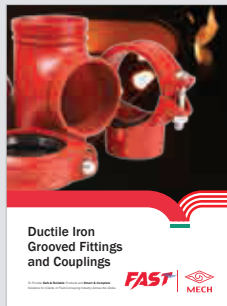
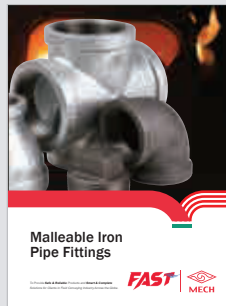


MECH FLOW SUPPLIES



FAST



FAST Cambodia

010 690 111 / 010 468 111

info@fastcambodia.com

FAST Cambodia

www.fastcambodia.com

#59, Street Lom, Phum Somrorn, Sangkat Khmounh, Khan Sensok, Phnom Penh, Cambodia



Malleable Iron Pipe Fittings

American Standard

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



More than 50 years of Foundry Experience

Company Profile

Jinan Meide Casting Co. Ltd. was established in 1961. 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 companys, and a science & technology park.

The company is the well-known 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.

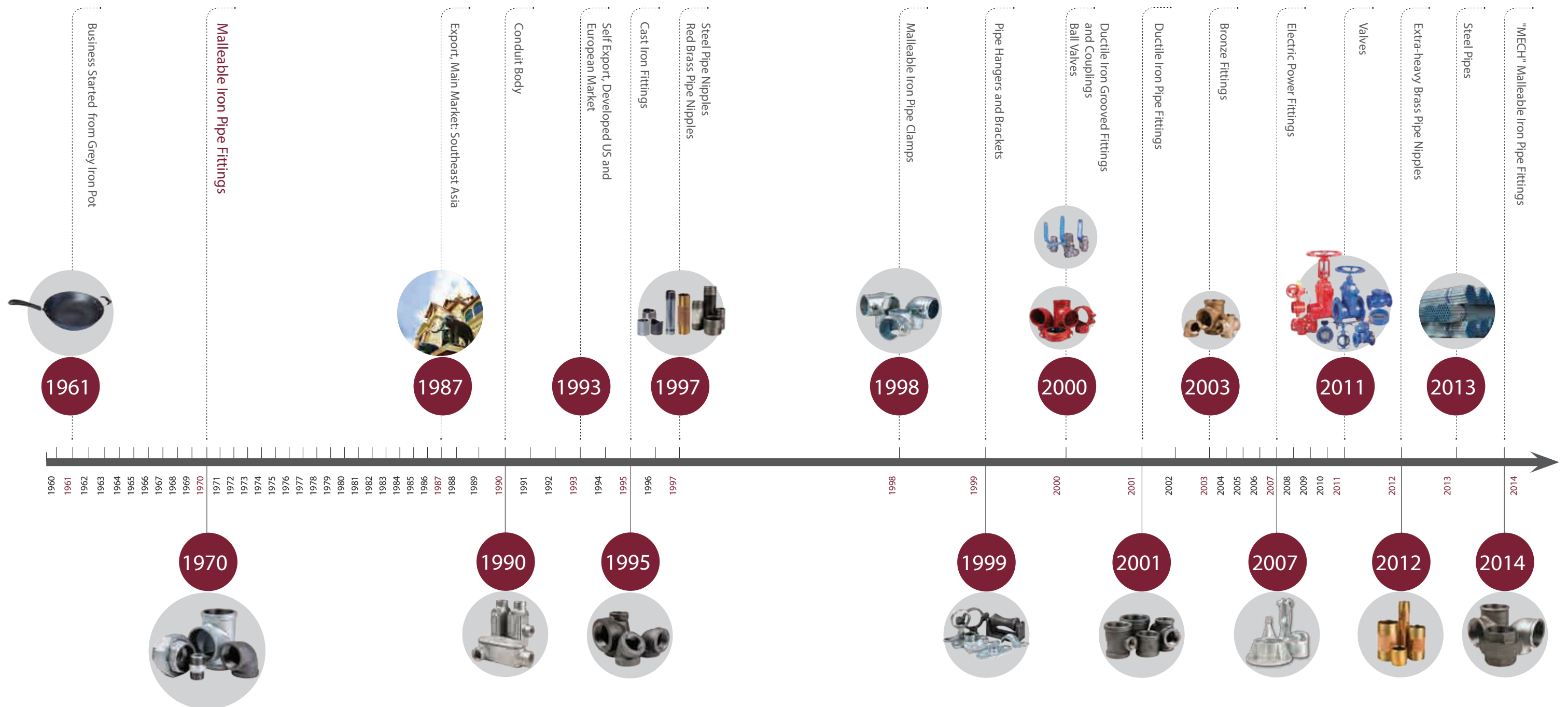
Over 50 years, Jinan Meide has been a trusted name in piping solutions by offering high-quality products, service and support to the PVF industry continuously. We provide expertise and product solutions for a wide range of applications, plumbing, mechanical, industrial, air-conditioning and refrigeration, 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 8 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



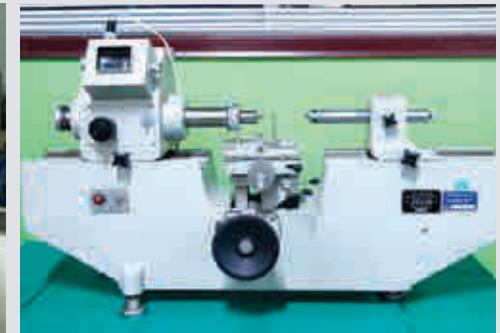
Spectrometer



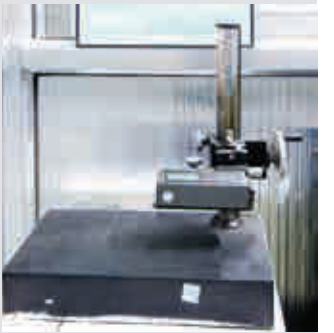
CMM



Projector



The Length of The Test Instrument



Roughness Tester



Carbon Sulfur Analyzer



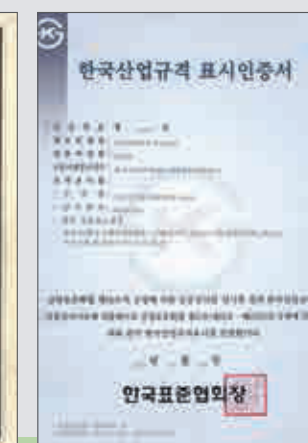
Tensile Strength Testing Equipment



Sand Testing Instrument



Certificates

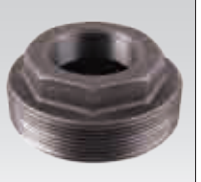




Malleable Iron Pipe Fittings

American Standard Class 150

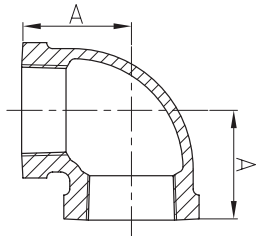
Material: ASTM A197/A197M
Dimensions: ASME B16.3, B16.14
Union Dimensions: B16.39
Threads: ASME B1.20.1
Size Available: 1/8" - 8"

 90 90° Elbow	 90R 90° Reducing Elbow	 90U 180° Return Elbow	 92 90° Street Elbow	 92R 90° Reducing Street Elbow	 96A Union Elbow
 120 45° Elbow	 121 45° Street Elbow	 130 Tee	 130R Bull Head Tee	 130R Reducing Tee	 130R Reducing Tee
 130R Reducing Tee	 130R Reducing Tee	 134 Service Tee	 165 45° Lateral Y Branch	 180 Cross	 180R Reducing Cross
 220 Coupling	 220S L&R Coupling	 240 Reducing Coupling	 240T Tapped Reducing Coupling	 241 Outside Hex Bushing	 241N Inside Hex Bushing
 245 Reducing Hexagon Nipple	 280 Hexagon Nipple	 246 Reducing Extension Piece	 529A Extension Piece	 291 Cored Plug	 291S Solid Plug

 291N Countersunk Plug	 291-4 Bar Head Plug	 300 Cap	 310 Locknut	 320 Wastenut	 321 Floor Flange
 321W Floor Flange without Hole	 342 Union with Brass Seat	 1221 Side Outlet Elbow	 1223 Side Outlet Tee	 1224 Side Outlet Cross	 LCC Long Compression Coupling
 WJFL Tee Flange					

90

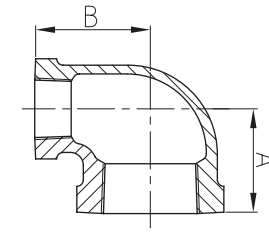
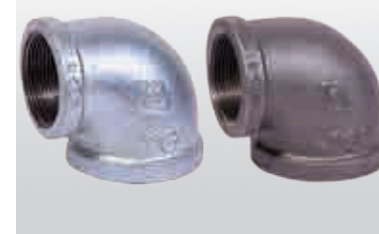
90° Elbow



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2
	mm	6	8	10	15	20	25	32	40
Dim. (mm)	A	17.5	20.6	24.1	28.5	33.3	38.1	44.5	49.3
Size	Inch	2	2 1/2	3	4	5	6	8	
	mm	50	65	80	100	125	150	200	
Dim. (mm)	A	57.2	68.6	78.2	96.3	114.3	130.3	162	

90R

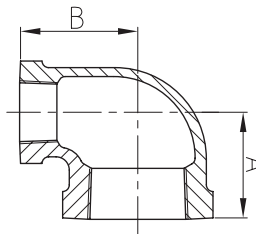
90° Reducing Elbow



Size	Inch	2 1/2X1 1/4	2 1/2X1 1/2	2 1/2X2	3X3/4	3X1
	mm	65X32	65X40	65X50	80X20	80X25
Dim. (mm)	A	50.5	54.9	60.7	45	50
	B	60	63.8	66.0	65	67.5
Size	Inch	3X1 1/4	3X1 1/2	3X2	3X2 1/2	1/4X1/8
	mm	80X32	80X40	80X50	80X65	8X6
Dim. (mm)	A	55	58	64	71.9	18.8
	B	70	72	73.4	75.9	19.3

90R

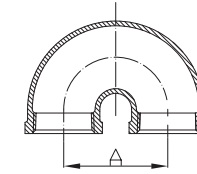
90° Reducing Elbow



Size	Inch	4X1 1/4	4X1 1/2	4X2	4X2 1/2	4X3	3/8X1/8
	mm	100X32	100X40	100X50	100X65	100X80	10X6
Dim. (mm)	A	60	62	69	78	83.8	20.5
	B	85	85	87	90	91.4	21.6
Size	Inch	3/8X1/4	6X4	1/2X1/4	1/2X3/8	3/4X1/4	3/4X3/8
	mm	10X8	150X100	15X8	15X10	20X8	20X10
Dim. (mm)	A	22.4	102	24.6	26.4	26.7	28.5
	B	22.9	125	24.9	26.2	27.4	28.7

90U

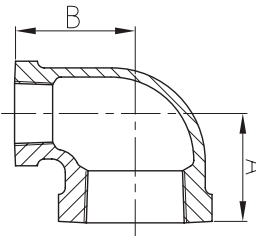
180° Return Elbow



Size	Inch	1/2	2				
	mm	15	50				
Dim. (mm)	A	38.1	101.6				
	B						
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

90R

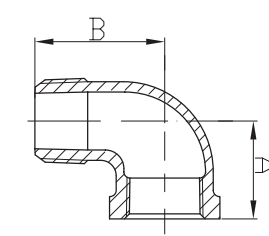
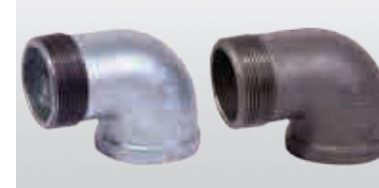
90° Reducing Elbow



Size	Inch	3/4X1/2	1X1/4	1X3/8	1X1/2	1X3/4
	mm	20X15	25X8	25X10	25X15	25X20
Dim. (mm)	A	30.5	27	30	32	34.8
	B	31	31	32.3	35.5	36.8
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	36.8	40.1	35
	B	36.5	38.9	41.2	42.4	41.5

92

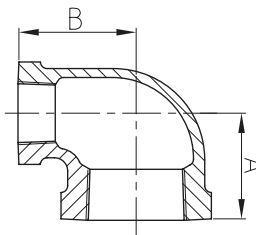
90° Street Elbow



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	17.5	20.6	24.1	28.5	33.3	38.1	44.5
	B	25.4	30.2	36.6	41.2	48.0	54.4	62.2
Size	Inch	1 1/2	2	2 1/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A	49.3	57.2	68.6	78.2	96.3	130.3	
	B	68.3	82.8	98.0	114.6	144.5	204.0	

90R

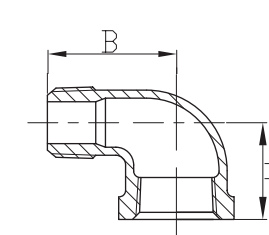
90° Reducing Elbow



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	38.6	41.9	46.2	37.5	40.6
	B	44.5	45.7	47.8	47.5	50.0
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	43.9	48.3	51.3	42	46
	B	51.3	53.3	54.9	57	58.7

92R

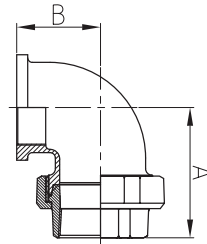
90° Reducing Street Elbow



Size	Inch	3/4X1/2	1X3/4	1 1/4X1	1 1/2X1 1/4	
	mm	20X15	25X20	32X25	40X32	
Dim. (mm)	A	30	35	40		
	B	40	46	56		
Size	Inch					
	mm					
Dim. (mm)	A					
	B					

96A

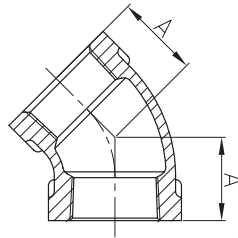
Union Elbow



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	57	59	72	82	88	99
	B	27	29	34	43	47	56
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

120

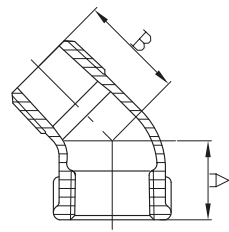
45° Elbow



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2
	mm	6	8	10	15	20	25	32	40
Dim. (mm)	A	16	18.5	20.3	22.4	24.9	28.5	32.8	36.3
	B								
Size	Inch	2	2 1/2	3	4	5	6	8	
	mm	50	65	80	100	125	150	200	
Dim. (mm)	A	42.7	49.5	55.1	66.3	77.5	87.9	106.7	
	B								

121

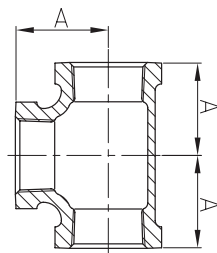
45° Street Elbow



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	20.3	22.4	24.9	28.5
	B	21	23.9	26.2	29.2	32.8	37.3
Size	Inch	1 1/4	1 1/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	32.8	36.3	42.7	49.5	55.1	66.3
	B	43.4	47.8	56.4	65.3	76.2	94.0

130

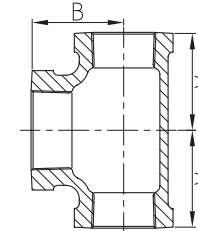
Tee



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2
	mm	6	8	10	15	20	25	32	40
Dim. (mm)	A	17.5	20.6	24.1	28.5	33.3	38.1	44.5	49.3
	B								
Size	Inch	2	2 1/2	3	4	5	6	8	
	mm	50	65	80	100	125	150	200	
Dim. (mm)	A	57.2	68.6	78.2	96.3	114.3	130.3	162	
	B								

130R

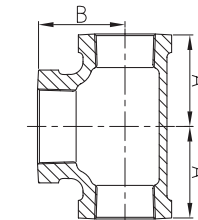
Bull Head Tee



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	34.6	36.8	41.2
	B	30.5	32.0	34.8	36.8
Size	Inch	1X1X1 1/4	1X1X1 1/2	1X1X2	1X1X2 1/2
	mm	25X25X32	25X25X40	25X25X50	25X25X65
Dim. (mm)	A	42.4	45.7	51.3	60
	B	40.1	41.9	48.9	48

130R

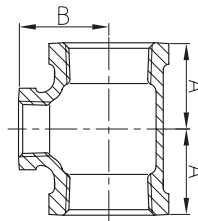
Bull Head Tee



Size	Inch	1 1/4X1 1/4X1 1/2	1 1/4X1 1/4X2	1 1/2X1 1/2X2	1 1/2X1 1/2X2 1/2
	mm	32X32X40	32X32X50	40X40X50	40X40X65
Dim. (mm)	A	47.8	53.3	54.9	62
	B	46.2	48.3	51.3	55
Size	Inch	2X2X2 1/2	2 1/2X2 1/2X3	2 1/2X2 1/2X4	
	mm	50X50X65	65X65X80	65X65X100	
Dim. (mm)	A	66	76	90	
	B	60.7	71.9	78	

130R

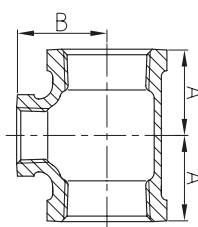
Reducing Tee



Size	Inch	4X1/2	4X3/4	4X1	4X1 1/4	4X1 1/2	4X2
	mm	100X15	100X20	100X25	100X32	100X40	100X50
Dim. (mm)	A	50	53	56	60	63.8	69.6
	B	79	79	82	84	84.3	86.6
Size	Inch	4X2 1/2	4X3	3/8X1 1/4	6X4	6X2	6X3
	mm	100X65	100X80	10X8	150X100	150X50	150X80
Dim. (mm)	A	77.5	83.8	22.4	104.9	78.2	92.5
	B	89.2	91.4	22.9	125.5	115.8	120.7

130R

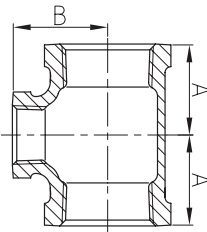
Reducing Tee



Size	Inch	1/2X1/8	1/2X1/4	1/2X3/8	3/4X1/4	3/4X3/8
	mm	15X6	15X8	15X10	20X8	20X10
Dim. (mm)	A	22	24.6	26.4	26.7	28.5
	B	23	24.9	26.2	27.4	28.7
Size	Inch	3/4X1/2	1X1/4	1X3/8	1X1/2	1X3/4
	mm	20X15	25X8	25X10	25X15	25X20
Dim. (mm)	A	30.5	28.2	30	32	34.8
	B	31	31	32.3	35.5	36.8

130R

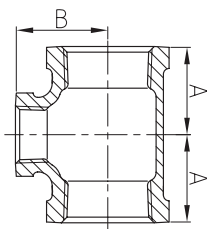
Reducing Tee



Size	Inch	11/4X3/8	11/4X1/2	11/4X3/4	11/4X1	11/2X3/8
	mm	32X10	32X15	32X20	32X25	40X10
Dim. (mm)	A	32	34	36.8	40.1	34
	B	36.6	38.9	41.2	42.4	39
Size	Inch	11/2X1/2	11/2X3/4	11/2X1	11/2X11/4	2X3/8
	mm	40X15	40X20	40X25	40X32	50X10
Dim. (mm)	A	35.8	38.6	41.9	46.2	36
	B	42.2	44.5	45.7	47.8	46

130R

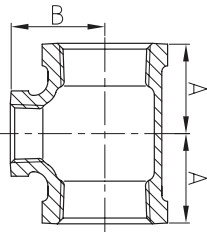
Reducing Tee



Size	Inch	2X1/2	2X3/4	2X1	2X11/4	2X11/2
	mm	50X15	50X20	50X25	50X32	50X40
Dim. (mm)	A	37.9	40.6	43.9	48.3	51.3
	B	47.8	50	51.3	53.3	54.9
Size	Inch	21/2X1/2	21/2X3/4	21/2X1	21/2X11/4	21/2X11/2
	mm	65X15	65X20	65X25	65X32	65X40
Dim. (mm)	A	41	44.2	47.5	51.8	54.9
	B	57	58.9	60.2	62.2	63.8

130R

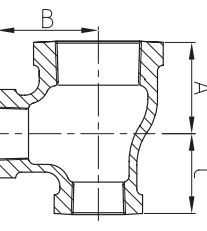
Reducing Tee



Size	Inch	21/2X2	3X1/2	3X3/4	3X1	3X11/4
	mm	65X50	80X15	80X20	80X25	80X32
Dim. (mm)	A	60.7	42	47.5	50.8	55.1
	B	66.0	64	66.3	67.6	69.6
Size	Inch	3X11/2	3X2	3X21/2	1/4X1/8	
	mm	80X40	80X50	80X65	8X6	
Dim. (mm)	A	58.2	64.0	71.9	18.8	
	B	71.1	73.4	76	19.3	

130R

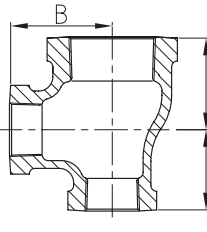
Reducing Tee



Size	Inch	3/4X1/2X1/2	1X1/2X1/2	1X3/4X3/4	11/4X1/2X1/2
	mm	20X15X15	25X15X15	25X20X20	32X15X15
Dim. (mm)	A	30.5	32	34.8	34
	B	31	35.5	36.8	38
	C	28.5	28.5	33.3	27
Size	Inch	11/4X3/4X3/4	11/4X1X1	11/2X3/4X3/4	11/2X1X1
	mm	32X20X20	32X25X25	40X20X20	40X25X25
Dim. (mm)	A	36.8	40.1	38	41.9
	B	41.2	42.4	43	45.7
	C	33.3	38.1	32	38.1

130R

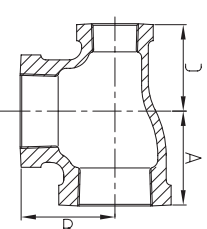
Reducing Tee



Size	Inch	11/2X11/4X11/4	2X1X1	2X11/4X11/4	2X11/2X11/2
	mm	40X32X32	50X25X25	50X32X32	50X40X40
Dim. (mm)	A	46.2	44	48.3	51.3
	B	47.8	51	53.3	54.9
	C	44.5	38	44.5	49.3
Size	Inch	21/2X2X2	3X2X2		
	mm	65X50X50	80X50X50		
Dim. (mm)	A	60.7	64		
	B	66	73.4		
	C	57.2	57.2		

130R

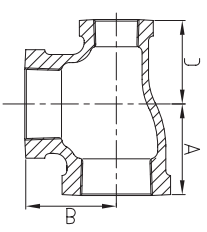
Reducing Tee



Size	Inch	3/4X1/2X3/4	1X1/4X1	1X1/2X1	1X3/4X1	11/4X1/2X11/4
	mm	20X15X20	25X8X25	25X15X25	25X20X25	32X15X32
Dim. (mm)	A	33.3	37	38.1	38.1	44.5
	B	33.3	37	38.1	38.1	44.5
	C	31	30	35.5	36.8	38.9
Size	Inch	11/4X3/4X11/4	11/4X1X11/4	11/2X1/2X11/2	11/2X3/4X11/2	11/2X1X11/2
	mm	32X20X32	32X25X32	40X15X40	40X20X40	40X25X40
Dim. (mm)	A	44.5	44.5	49.3	49.3	49.3
	B	44.5	44.5	49.3	49.3	49.3
	C	41.2	42.4	42.2	44.5	45.7

130R

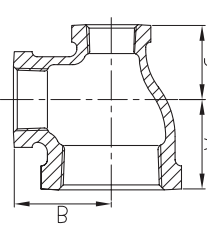
Reducing Tee



Size	Inch	11/2X11/4X11/2	2X1/2X2	2X3/4X2	2X1X2
	mm	40X32X40	50X15X50	50X20X50	50X25X50
Dim. (mm)	A	49.3	57.2	57.2	57.2
	B	49.3	57.2	57.2	57.2
	C	47.8	47.8	50	51.3
Size	Inch	2X11/4X2	2X11/2X2	21/2X11/2X21/2	21/2X2X21/2
	mm	50X32X50	50X40X50	65X40X65	65X50X65
Dim. (mm)	A	57.2	57.2	68.6	68.6
	B	57.2	57.2	68.6	68.6
	C	53.3	54.8	63.8	66

130R

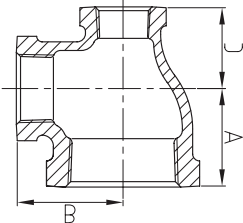
Reducing Tee



Size	Inch	4X3X2	3/4X1/2X1	1X1/2X3/4	11/4X1/2X3/4	11/4X1/2X11/4
	mm	100X80X50	20X15X25	25X15X20	32X15X32	32X15X25
Dim. (mm)	A	67	38	34.8	35	40.1
	B	83.5	34	36.8	38	42.4
	C	60	33	31	29	34.5
Size	Inch	11/4X3/4X1/2	11/4X3/4X1	11/4X1X1/2	11/4X1X3/4	11/2X1/2X1
	mm	32X20X15	32X20X25	32X25X15	32X25X20	40X15X25
Dim. (mm)	A	40	40.1	34.0	36.8	44
	B	42.5	42.4	38.9	41.2	46
	C	37	36.8	32	34.8	34

130R

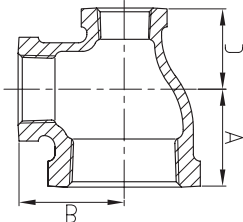
Reducing Tee



Size	Inch	11/2X3/4X1	11/2X3/4X11/4	11/2X1X1/2	11/2X3/4X11/4	11/2X11/4X1/2
	mm	40X20X25	40X20X32	40X25X15	40X25X32	40X32X15
Dim. (mm)	A	44	46	37	45	35.8
	B	46	48	41	47	42.2
	C	35	41	32	41.5	34.0
Size	Inch	11/2X11/4X3/4	11/2X11/4X1	11/2X11/4X2	2X1X11/2	2X11/4X1
	mm	40X32X20	40X32X25	40X32X50	50X25X40	50X32X25
Dim. (mm)	A	38.6	41.9	55	51.3	40
	B	44.5	45.7	51.5	54.9	51
	C	36.3	40.1	53.5	45.7	44

130R

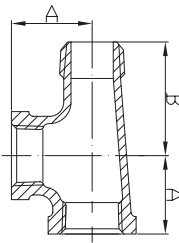
Reducing Tee



Size	Inch	2X11/4X11/2	2X11/2X1/2	2X11/2X3/4	2X11/2X1	2X11/2X11/4
	mm	50X32X40	50X40X15	50X40X20	50X40X25	50X40X32
Dim. (mm)	A	51.3	38	39.5	43.9	48.3
	B	54.9	48	49	51.3	53.3
	C	47.8	36	37.5	41.9	46.2
Size	Inch	21/2X2X1/2	21/2X2X1	21/2X2X11/4	3X21/2X2	
	mm	65X50X15	65X50X25	65X50X32	80X65X50	
Dim. (mm)	A	57	53	57	64.0	
	B	64	60	64	73.4	
	C	52	53	52	60.7	

134

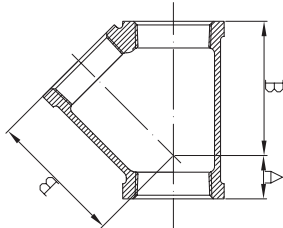
Service Tee



Size	Inch	1/4	1/2	3/4	1	11/4	11/2
	mm	8	15	20	25	32	40
Dim. (mm)	A	20.6	28.5	33.3	38.1	44.5	49.3
	B	30.2	41.2	48.0	54.4	62.2	68.3
Size	Inch	2	3				
	mm	50	80				
Dim. (mm)	A	57.2	78.2				
	B	82.8	114.6				

165

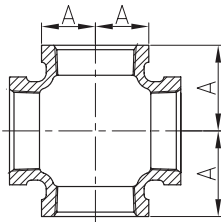
45° Lateral Y Branch



Size	Inch	3/8	1/2	3/4	1	11/4	11/2
	mm	10	15	20	25	32	40
Dim. (mm)	A	12.7	15.5	18.3	21.6	25.9	27.9
	B	36.3	43.4	52.1	61.7	74.2	83.3
Size	Inch	2	21/2	3	4		
	mm	50	65	80	100		
Dim. (mm)	A	37.5	38.6	43.4	51.1		
	B	99.8	120.1	141	177		

180

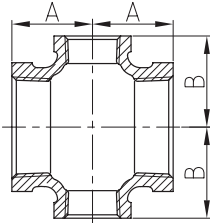
Cross



Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	17.5	20.6	24.1	28.5	33.3	38.1
	B						
	C						
Size	Inch	11/4	11/2	2	21/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	44.5	49.3	57.2	68.6	78.2	96.3
	B						
	C						

180R

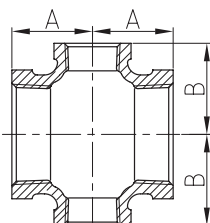
Reducing Cross



Size	Inch	4X1	4X11/4	4X11/2	4X2	4X21/2	4X3
	mm	100X25	100X32	100X40	100X50	100X65	100X80
Dim. (mm)	A	56	60	62	70	84	82
	B	82	85	85	86	92	90
Size	Inch	3/4X1/2	1X1/2	1X3/4	11/4X1/2	11/4X3/4	11/4X1
	mm	20X15	25X15	25X20	32X15	32X20	32X25
Dim. (mm)	A	30.5	32	34.8	33	36.8	40.1
	B	31.0	35.5	36.8	37.5	41.2	42.4
	C						

180R

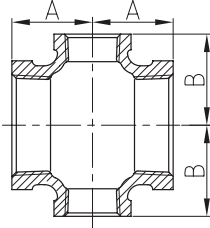
Reducing Cross



Size	Inch	11/2X1/2	11/2X3/4	11/2X1	11/2X11/4	2X3/4
	mm	40X15	40X20	40X25	40X32	50X20
Dim. (mm)	A	34.5	38.6	41.9	46.2	40.6
	B	41	44.5	45.7	47.8	50
Size	Inch	2X1	2X11/4	2X11/2	21/2X3/4	21/2X1
	mm	50X25	50X32	50X40	65X20	65X25
Dim. (mm)	A	43.9	48.3	51.3	43	47
	B	51.3	53.3	54.9	57	60
	C					

180R

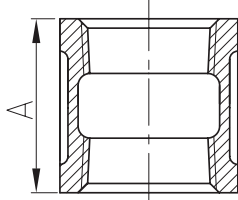
Reducing Cross



Size	Inch	21/2X11/4	21/2X11/2	21/2X2	3X3/4	3X1
	mm	65X32	65X40	65X50	80X20	80X25
Dim. (mm)	A	52	55	60.7	45	49
	B	62	63	66.0	65	66
Size	Inch	3X11/4	3X11/2	3X2	3X21/2	
	mm	80X32	80X40	80X50	80X65	
Dim. (mm)	A	53	56.5	64	72	
	B	68	69.5	73.4	76	
	C					

220

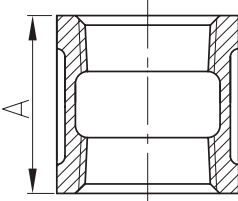
Coupling



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	24.2	26.9	29.5	34.0	38.6	42.4	49
Size	Inch	1 1/2	2	2 1/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	54.6	64.3	73.2	80.8	93.7	95	105

220S

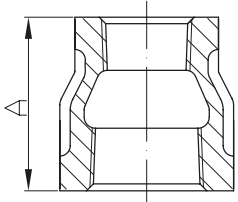
Left & Right Coupling



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	34.0	38.6	42.4	49	54.6	64.3
Size	Inch						
	mm						
Dim. (mm)	A						

240

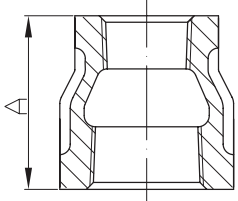
Reducing Coupling



Size	Inch	4X1	4X1 1/4	4X1 1/2	4X2	4X2 1/2
	mm	100X25	100X32	100X40	100X50	100X65
Dim. (mm)	A	111.3	111.3	111.3	111.3	111.3
Size	Inch	4X3	3/8X1/8	3/8X1/4	5X4	6X4
	mm	100X80	10X6	10X8	125X100	150X100
Dim. (mm)	A	111.3	28.7	28.7	122	105

240

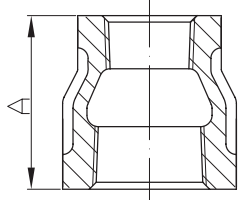
Reducing Coupling



Size	Inch	6X2	6X3	1/2X1/8	1/2X1/4	1/2X3/8	3/4X1/8
	mm	150X50	150X80	15X6	15X8	15X10	20X6
Dim. (mm)	A	105	105	31.8	31.8	31.8	36.6
Size	Inch	3/4X1/4	3/4X3/8	3/4X1/2	1X1/4	1X3/8	1X1/2
	mm	20X8	20X10	20X15	25X8	25X10	25X15
Dim. (mm)	A	36.6	36.6	36.6	42.9	42.9	42.9

240

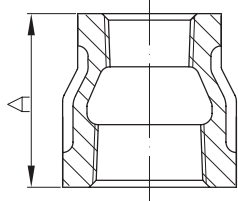
Reducing Coupling



Size	Inch	1X3/4	1 1/4X1/4	1 1/4X3/8	1 1/2X1/2	1 1/4X3/4	1 1/4X1
	mm	25X20	32X8	32X10	32X15	32X20	32X25
Dim. (mm)	A	42.9	52.3	52.3	52.3	52.3	52.3
Size	Inch	1 1/2X1/4	1 1/2X3/8	1 1/2X1/2	1 1/2X3/4	1 1/2X1	2X1/2
	mm	40X8	40X10	40X15	40X20	40X25	50X15
Dim. (mm)	A	58.7	58.7	58.7	58.7	58.7	71.4

240

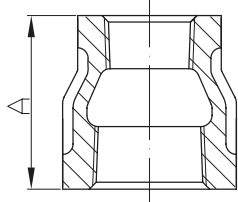
Reducing Coupling



Size	Inch	1 1/2X1 1/4	2X3/4	2X1	2X1 1/4	2X1 1/2
	mm	40X32	50X20	50X25	50X32	50X40
Dim. (mm)	A	58.7	71.4	71.4	71.4	71.4
Size	Inch	2 1/2X1/2	2 1/2X3/4	2 1/2X1	2 1/2X1 1/4	2 1/2X1 1/2
	mm	65X15	65X20	65X25	65X32	65X40
Dim. (mm)	A	82.6	82.6	82.6	82.6	82.6

240

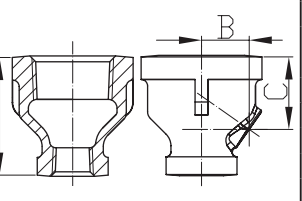
Reducing Coupling



Size	Inch	2 1/2X2	3X1/2	3X3/4	3X1	3X1 1/4
	mm	65X50	80X15	80X20	80X25	80X32
Dim. (mm)	A	82.6	93.7	93.7	93.7	93.7
Size	Inch	3X1 1/2	3X2	3X2 1/2	1/4X1/8	8X6
	mm	80X40	80X50	80X65	8X6	200X150
Dim. (mm)	A	93.7	93.7	93.7	25.4	131

240T

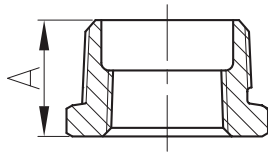
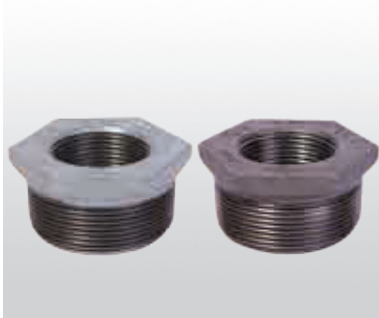
Tapped Reducing Coupling



Size	Inch	3/4X1/4X1/8				
	mm	20X8X6				
Dim. (mm)	A	36.5				
	B	14.8				
	C	22.5				
Size	Inch					
	mm					
Dim. (mm)	A					
	B					
	C					

241

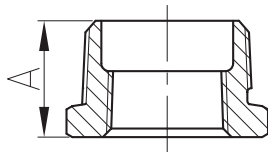
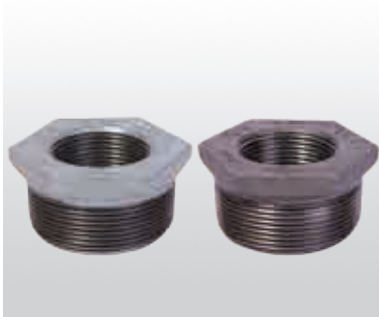
Outside Hex Bushing



Size	Inch	4X3	3/8X1/8	3/8X1/4	5X4	6X5	1/2X1/8	1/2X1/4
	mm	100X80	10X6	10X8	125X100	150X125	15X6	15X8
Dim. (mm)	A	43.7	16.3	16.3	46	51.6	19	19
Size	Inch	1/2X3/8	3/4X1/8	3/4X1/4	3/4X3/8	3/4X1/2	1X1/2	1X3/4
	mm	15X10	20X6	20X8	20X10	20X15	25X15	25X20
Dim. (mm)	A	19	21.6	21.6	21.6	21.6	25.5	25.5

241

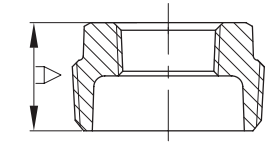
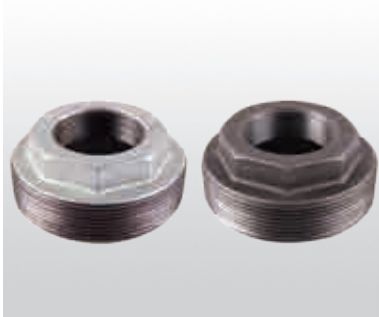
Outside Hex Bushing



Size	Inch	11/4X3/4	11/4X1	11/2X1	11/2X11/4	2X11/4	2X11/2
	mm	32X20	32X25	40X25	40X32	50X32	50X40
Dim. (mm)	A	27.4	27.4	29	29	31	31
Size	Inch	21/2X2	21/2X2	3X2	3X21/2	1/4X1/8	8X6
	mm	65X40	65X50	80X50	80X65	8X6	200X150
Dim. (mm)	A	38.4	36.6	40.9	38.9	14.8	70

241N

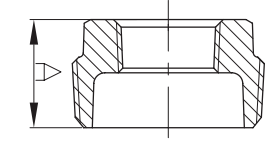
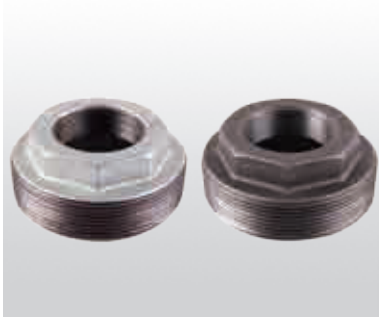
Inside Hex Bushing



Size	Inch	4X3/4	4X1	4X11/4	4X11/2	4X11/2	4X11/2
	mm	100X20	100X25	100X32	100X40	100X50	100X65
Dim. (mm)	A	46.2	46.2	46.2	46.2	46.2	46.2
Size	Inch	6X21/2	6X21/2	6X21/2	6X21/2	1X1/4	1X1/4
	mm	150X50	150X65	150X80	150X100	25X6	25X8
Dim. (mm)	A	54.7	54.7	54.7	54.7	26.7	26.7

241N

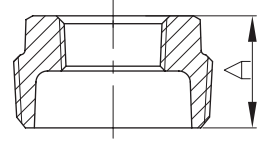
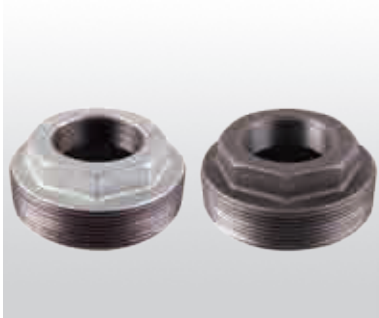
Inside Hex Bushing



Size	Inch	1X3/8	11/4X3/8	11/4X1/2	11/2X1/4	11/2X3/8
	mm	25X10	32X8	32X10	40X8	40X10
Dim. (mm)	A	26.7	28.9	28.9	30.5	30.5
Size	Inch	11/2X1/2	11/2X3/4	2X1	2X1	2X1
	mm	40X15	40X20	50X8	50X10	50X15
Dim. (mm)	A	30.5	30.5	32.8	32.8	32.8

241N

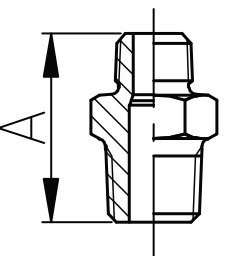
Inside Hex Bushing



Size	Inch	2X1	2X1	21/2X1/2	21/2X3/4	21/2X1/2	21/2X3/4
	mm	50X20	50X25	65X15	65X20	65X25	65X32
Dim. (mm)	A	32.8	32.8	38.4	38.4	38.4	38.4
Size	Inch	3X2	3X21/2	3X2	3X21/2	3X2	
	mm	80X15	80X20	80X25	80X32	80X40	
Dim. (mm)	A	40.9	40.9	40.9	40.9	40.9	

245

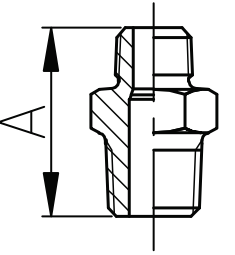
Reducing Hexagon Nipple



Size	Inch	4X2	4X21/2	4X3	3/8X1/4	1/2X1/4	1/2X3/8
	mm	100X50	100X65	100X80	10X8	15X8	15X10
Dim. (mm)	A	87	87	87	38	44	44
Size	Inch	3/4X1/4	3/4X3/8	3/4X1/2	1X1/2	1X3/4	11/4X1/2
	mm	20X8	20X10	20X15	25X15	25X20	32X15
Dim. (mm)	A	47	47	47	53	53	57

245

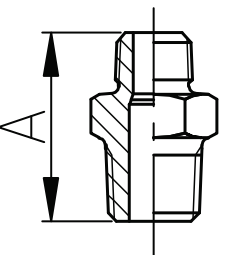
Reducing Hexagon Nipple



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

245

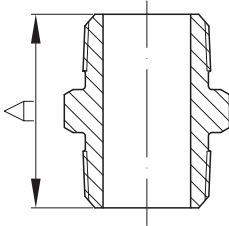
Reducing Hexagon Nipple



Size	Inch	2X11/2	21/2X1	21/2X11/4	21/2X11/2	21/2X2
	mm	50X40	65X25	65X32	65X40	65X50
Dim. (mm)	A	68	75	75	75	75
Size	Inch	3X11/2	3X2	3X21/2	1/4X1/8	
	mm	80X40	80X50	80X65	8X6	
Dim. (mm)	A	83	83	83	31	

280

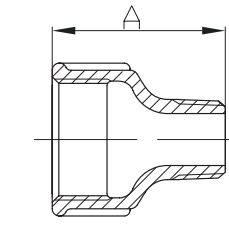
Hexagon Nipple



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	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	110

246

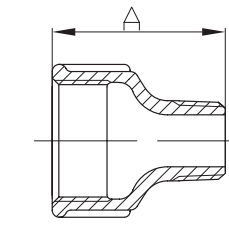
Reducing Extension Piece



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

246

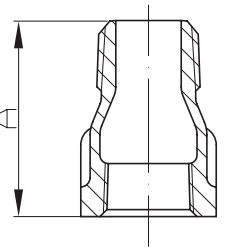
Reducing Extension Piece



Size	Inch	1 1/4X3/4	1 1/4X1	1 1/2X3/4	1 1/2X1
	mm	32X20	32X25	40X20	40X25
Dim. (mm)	A	60	60	63	63
Size	Inch	1 1/2X1 1/4	2X1	2X1 1/4	2X1 1/2
	mm	40X32	50X25	50X32	50X40
Dim. (mm)	A	63	70	70	70

529A

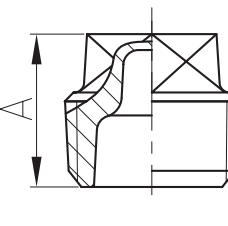
Extension Piece



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	2 1/2	3	4		
	mm	50	65	80	100		
Dim. (mm)	A	70	76	83	97		

291

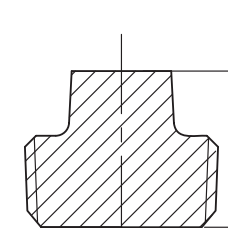
Cored Plug



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	15.5	18.3	20.1	23.9	27.2	31.8	34.5
Size	Inch	1 1/2	2	2 1/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A	36.9	39.7	46	49	64.5	71.5	

291S

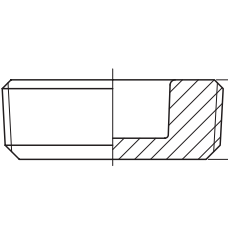
Solid Plug



Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	15.5	18.3	20.1	23.9	27.2	31.8
Size	Inch	1 1/4	1 1/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	34.5	36.9	39.7	46	49	64.5

291N

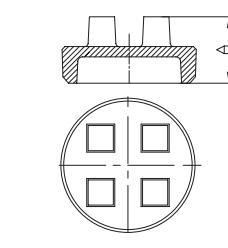
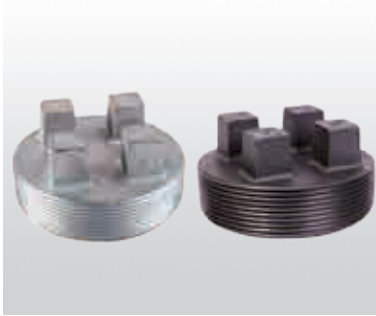
Countersunk Plug



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	14.2	16	19.1	20.3	21.1	22.4
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	27.2	28.7	31.0			

291-4

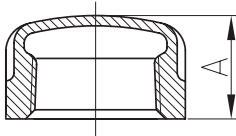
Bar Head Plug



Size	Inch	4	5	6			
	mm	100	125	150			
Dim. (mm)	A	56.4	58.7	67.4			
Size	Inch						
	mm						
Dim. (mm)	A						

300

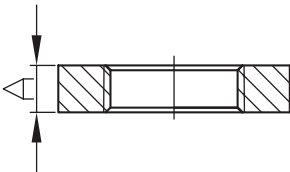
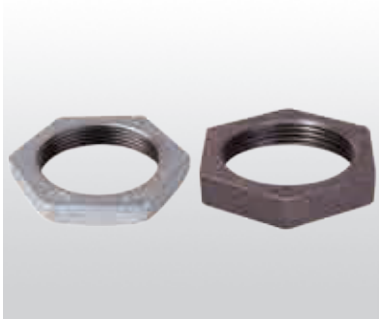
Cap



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2
	mm	6	8	10	15	20	25	32	40
Dim. (mm)	A Min	13.5	16.0	18.8	22.1	24.6	29.5	32.5	33.8
Size	Inch	2	2 1/2	3	4	5	6	8	
	mm	50	65	80	100	125	150	200	
Dim. (mm)	A	36.8	43.2	45.7	52.8	58.9	64.8	76.2	

310

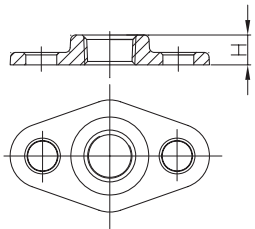
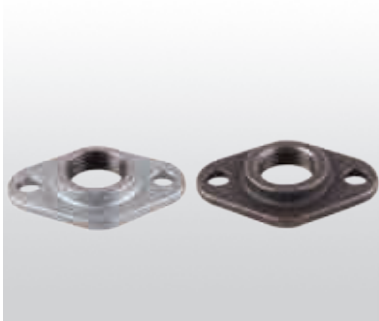
Locknut



Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A Min	4.8	6.4	7.1	7.9	8.6	9.7
Size	Inch	1 1/4	1 1/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A Min	10.7	11.9	13.5	15	17	20.3

320

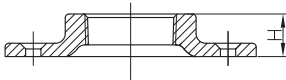
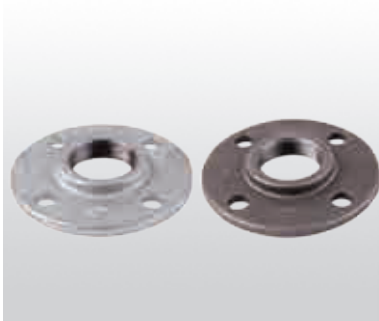
Wastenut



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	12	13	13.5	15	16	18
Size	Inch	2 1/2					
	mm	65					
Dim. (mm)	A Min	20					

321

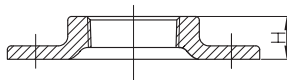
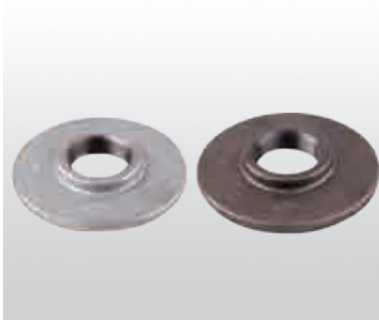
Floor Flange



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	12	14	14	16	17	19
Size	Inch	1 1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A Min	22	25	26.2	27.3	30.5	

321W

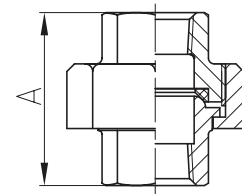
Floor Flange without Bolt Hole



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A Min	14	16	17	19	22	25
Size	Inch						
	mm						
Dim. (mm)	A Min						

342

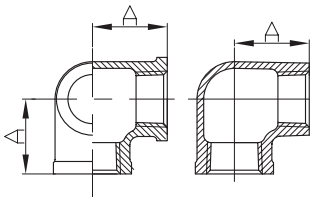
Union with Brass Seat



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 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	145	

1221

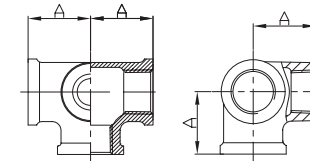
Side Outlet Elbow



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

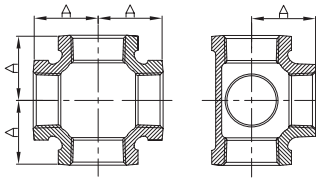
Side Outlet Tee



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

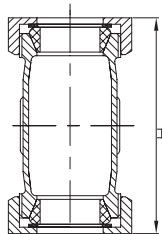
Side Outlet Cross



Size	Inch	1	1 1/4	1 1/2			
	mm	25	32	40			
Dim. (mm)	A	38	45	50			
	B						
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

LCC

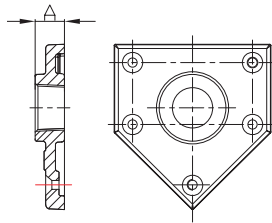
Long Compression Coupling



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
	B						
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	137	145	155			
	B						

WJFL

Tee Flange



Size	Inch	1					
	mm	25					
Dim. (mm)	A	18					
	B						
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

Malleable Iron Pipe Fittings

American Standard Class 300

Material: ASTM A197/A197M
Dimensions: ASME B16.3, B16.14
Union Dimensions: B16.39
Threads: ASME B1.20.1
Size Available: 1/4"- 4"



90
90° Elbow



90R
90° Reducing Elbow



92
90° Street Elbow



120
45° Elbow



121
45° Street Elbow



130
Tee



130R
Reducing Tee



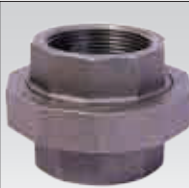
220
Coupling



240
Reducing Coupling



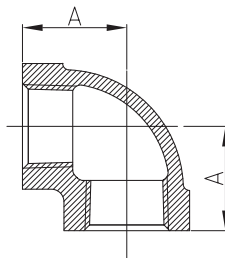
300
Cap



342
Union with Brass Seat

90

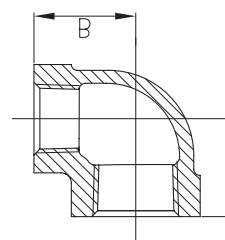
90° Elbow



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	23.9	26.9	31.8	35.6	41.4	49.3
	B						
Size	Inch	1 1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	54.1	63.5	74.7	85.9	114	
	B						

90R

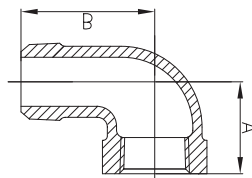
90° Reducing Elbow



Size	Inch	1/2X3/8	1X3/4	1 1/4X1/2			
	mm	15X10	25X20	32X15			
Dim. (mm)	A	30.2	38.1	36.5			
	B	30.2	39.6	42			
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

92

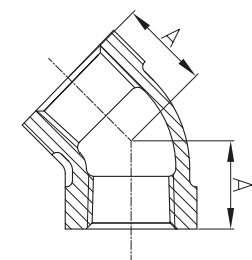
90° Street Elbow



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	23.9	26.9	31.8	36.6	41.4	49.3
	B	36.6	41.4	50.8	55.6	65.0	73.2
Size	Inch	1 1/2	2	2 1/2	3		
	mm	40	50	65	80		
Dim. (mm)	A	54.1	63.5	74.7	85.9		
	B	79.5	93.7	114.3	130.3		

120

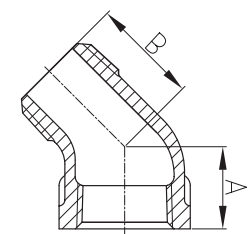
45° Elbow



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	20.6	22.4	25.4	28.7	33.3	38.1
	B						
Size	Inch	1 1/2	2	2 1/2	3	4	8
	mm	40	50	65	80	100	200
Dim. (mm)	A	42.9	50.8	57.2	63.5	71	106.7
	B						

121

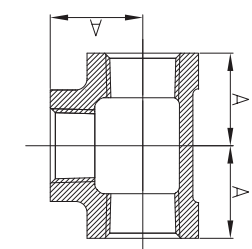
45° Street Elbow



Size	Inch	3/4	1	1 1/4	1 1/2		
	mm	20	25	32	40		
Dim. (mm)	A	28.7	33.3	38.1	42.9		
	B	39.6	46.0	54.1	58.7		
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

130

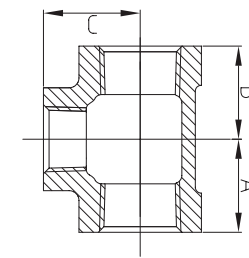
Tee



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	23.9	26.9	31.8	35.6	41.4	49.3
	B						
Size	Inch	1 1/2	2	2 1/2	3	4	8
	mm	40	50	65	80	100	200
Dim. (mm)	A	54.1	63.5	74.7	85.9	114	162
	B						

130R

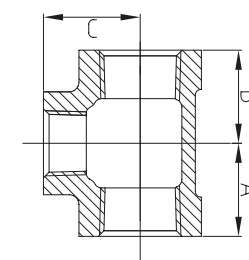
Reducing Tee



Size	Inch	1/2X3/8	3/4X1/2	1X1/2	1X3/4	1 1/4X1/2
	mm	15X10	20X15	25X15	25X20	32X15
Dim. (mm)	A	30.2	33.3	36.6	38.1	38.1
	B	30.2	33.3	36.6	38.1	38.1
	C	30.2	35.1	38.1	39.6	42.9
Size	Inch	1 1/4X3/4	1 1/4X1	1 1/2X1/2	1 1/2X3/4	1 1/2X1
	mm	32X20	32X25	40X15	40X20	40X25
Dim. (mm)	A	41.4	44.5	41.4	42.9	46.0
	B	41.4	44.5	41.4	42.9	46.0
	C	44.5	46.0	46.0	47.6	50.8

130R

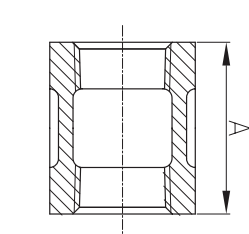
Reducing Tee



Size	Inch	1 1/2X1 1/4	2X1/2	2X3/4	2X1	2X1 1/4
	mm	40X32	50X15	50X20	50X25	50X32
Dim. (mm)	A	50.8	44.5	46.0	50.8	54.1
	B	50.8	44.5	46.0	50.8	54.1
	C	52.3	52.3	54.1	57.2	58.7
Size	Inch	2X1 1/2	2 1/2X2	3X2	4X2 1/2	4X3
	mm	50X40	65X50	80X50	100X65	100X80
Dim. (mm)	A	57.2	68.3	71.4	94	101.5
	B	57.2	68.3	71.4	94	101.5
	C	60.5	70.0	79.5	101.5	108

220

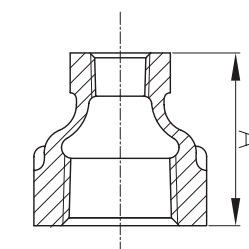
Coupling



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	35.1	41.4	47.8	54.1	60.5	73.2
	B						
Size	Inch	1 1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	73.2	92.2	104.9	104.9	117	
	B						

240

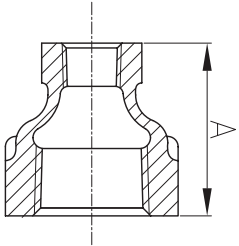
Reducing Coupling



Size	Inch	3/8X1/4	1/2X1/4	1/2X3/8	3/4X1/4	3/4X3/8	3/4X1/2	1X3/8
	mm	10X8	15X8	15X10	20X8	20X10	20X15	25X10
Dim. (mm)	A	36.6	42.9	42.9	44.5	44.5	44.5	50.8
	B							
Size	Inch	1X1/2	1X3/4	1 1/4X1/2	1 1/4X3/4	1 1/4X1	1 1/2X1/2	1 1/2X3/4
	mm	25X15	25X20	32X15	32X20	32X25	40X15	40X20
Dim. (mm)	A	50.8	50.8	60.5	60.5	60.5	68.3	68.3
	B							

240

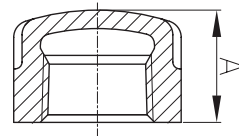
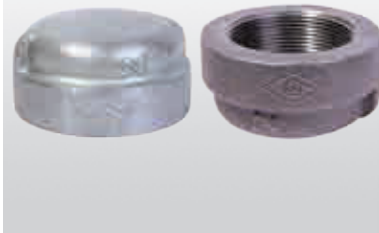
Reducing Coupling



Size	Inch	1 1/2X1	1 1/2X1 1/4	2X1 1/2	2X3/4	2X1	2X1 1/4	2X1 1/2
	mm	40X25	40X32	50X15	50X20	50X25	50X32	50X40
Dim. (mm)	A	68.3	68.3	81.0	81.0	81.0	81.0	81.0
Size	Inch	2 1/2X1 1/2	2 1/2X2	3X2	3X2 1/2	4X3	8X6	
	mm	65X40	65X50	80X50	80X65	100X80	200X150	
Dim. (mm)	A	93.7	93.7	103.1	103.1	110	131	

300

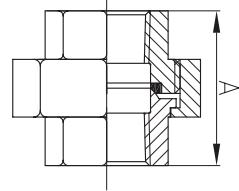
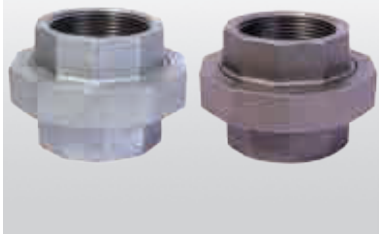
Cap



Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A Min	19.8	21.1	24.9	27.4	32.0	35.1
Size	Inch	1 1/2	2	2 1/2	3	4	8
	mm	40	50	65	80	100	200
Dim. (mm)	A Min	36.3	42.7	52.3	55.1	60.5	76.2

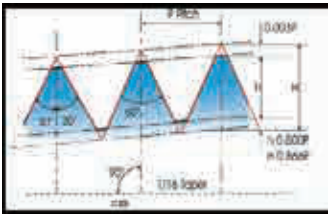
342

Union with Brass Seat

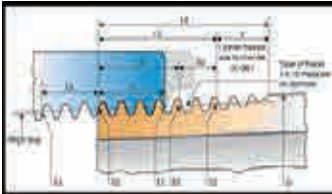


Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	32	39.5	43.5	46	54	58.5
Size	Inch	1 1/4	1 1/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	67.5	72.5	82	84.5	104	113.5

Basic Dimension for American Standard Pipe Threads



Taper thread
 $H = 0.866025 \quad p = 0.866025/n$
 $h = 0.800 \quad p = 0.800/n$



Taper thread
 $L2 = (0.8D + 6.8) \quad 1/n = (0.80D + 6.8)p$

Nominal Pipe Size(inchs)	O.D.of Pipe (D)	Threads /in (N)	Pitch of Thread (P)	Pitch Dia. at Beginning of External Thread(E0)	Handtight Engagement			Effective Thread External			Depth of Thread h
					Length ² (L1)		Diam ³ . (E1)	Length ⁴ (L2)		Diam. (E2)	
					Inch	Thread		Inch	Thread		
1/8	0.405	27.0	0.03704	0.36351	0.1615	4.36	0.37360	0.2639	7.12	0.38000	0.029
1/4	0.540	18.0	0.05556	0.47739	0.2278	4.10	0.49163	0.4018	7.23	0.50250	0.044
3/8	0.675	18.0	0.05556	0.61201	0.2400	4.32	0.62701	0.4078	7.34	0.63750	0.044
1/2	0.840	14.0	0.07143	0.75843	0.3200	4.48	0.77843	0.5337	7.47	0.79179	0.057
3/4	1.050	14.0	0.07143	0.96768	0.3390	4.75	0.98887	0.5457	7.64	1.00179	0.057
1	1.315	11.5	0.08696	1.21363	0.4000	4.60	1.23863	0.6826	7.85	1.25630	0.069
1 1/4	1.660	11.5	0.08696	1.55713	0.4200	4.83	1.58338	0.7068	8.13	1.60130	0.069
1 1/2	1.900	11.5	0.08696	1.79609	0.4200	4.83	1.82234	0.7235	8.32	1.84130	0.069
2	2.375	11.5	0.08696	2.26902	0.4360	5.01	2.29627	0.7565	8.70	2.31630	0.069
2 1/2	2.875	8.0	0.12500	2.71953	0.6820	5.46	2.76216	131375	9.10	2.79062	0.100
3	3.500	8.0	0.12500	3.34062	0.7660	6.13	3.38850	1.2000	9.60	3.41562	0.100
3 1/2	4.000	8.0	0.12500	3.83750	0.8210	6.57	3.88881	1.2500	10.00	3.91562	0.100
4	4.500	8.0	0.12500	4.33438	0.8440	6.75	4.38712	1.3000	10.40	4.41562	0.100
5	5.563	8.0	0.12500	5.39073	0.9370	7.50	5.44929	1.4063	11.25	5.47862	0.100
6	6.625	8.0	0.12500	6.44609	0.9580	7.66	6.50597	1.5125	12.10	6.54062	0.100

Nominal Pipe Size (inches)	Length,L1 Plane to L2 Plane External Thread (L2-L1)		Wrench Makeup Length for Internal Thread ⁷			Vanish Thread (V)		Overall 8 Length External Thread (L4)	Nominal Complete External Thread ⁵		Height of Thread(h)	Increase in Diam./ Thread (0.0625/n)	Basic ⁶ Minor Diam.At Small End of Pipe(K0)
	Length(L3)		Diam. (E3)	Length.(L5)					Diam. (E5)				
	Inch	Thread		Inch	Thread	Inch	Thread						
1/8	0.1024	2.76	0.1111	3	0.35656	0.1285	3.47	0.3924	0.1898	0.37537	0.02963	0.00231	0.3339
1/4	0.1740	3.13	0.1667	3	0.46697	0.1928	3.47	0.5946	0.2907	0.49556	0.04444	0.00347	0.4329
3/8	0.1678	3.02	0.1667	3	0.60160	0.1928	3.47	0.6006	0.2967	0.63056	0.04444	0.00347	0.5676
1/2	0.2137	2.99	0.2143	3	0.74504	0.2478	3.47	0.7815	0.3909	0.78286	0.05714	0.00446	0.7013
3/4	0.2067	2.89	0.2143	3	0.95429	0.2478	3.47	0.7935	0.4029	0.99286	0.05714	0.00446	0.9105
1	0.2828	3.25	0.2609	3	1.19733	0.3017	3.47	0.9845	0.5089	1.24543	0.06957	0.00543	1.1441
1 1/4	0.2868	3.30	0.2609	3	1.54083	0.3017	3.47	1.0085	0.5329	1.59043	0.06957	0.00543	1.4876
1 1/2	0.3035	3.49	0.2609	3	1.77978	0.3017	3.47	1.0252	0.5496	1.83043	0.06957	0.00543	1.7265
2	0.3205	3.69	0.2609	3	2.25272	0.3017	3.47	1.0582	0.5826	2.30543	0.06957	0.00543	2.1995
2 1/2	0.4555	3.64	0.2500	2	2.70391	0.4337	3.47	1.5712	0.8875	2.77500	0.10000	0.00781	2.6195
3	0.4340	3.47	0.2500	2	3.32500	0.4337	3.47	1.6337	0.9500	3.40000	0.10000	0.00781	3.2406
3 1/2	0.4290	3.43	0.2500	2	3.82188	0.4337	3.47	1.6837	1.0000	3.90000	0.10000	0.00781	3.7375
4	0.4560	3.65	0.2500	2	4.31875	0.4337	3.47	1.7337	1.0500	4.40000	0.10000	0.00781	4.2344
5	0.4693	3.75	0.2500	2	5.37511	0.4337	3.47	1.8400	1.1563	5.46300	0.10000	0.00781	5.2907
6	0.5545	4.44	0.2500	2	6.43047	0.4337	3.47	1.9462	1.2625	6.52500	0.10000	0.00781	6.3461

Note: This information is selected from the International Standard for Pipe Threads, ASME B1.20.1.