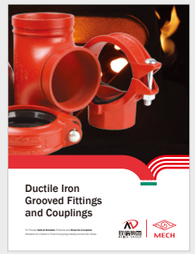
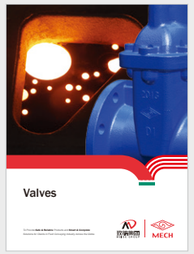
MECH FLOW SUPPLIES

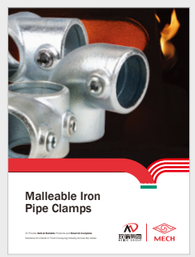


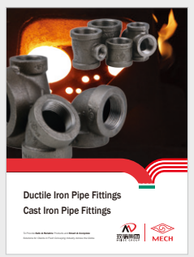


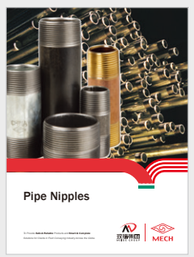












玫德集团 MEIDE GROUP | MECH

JINAN MEIDE CASTING CO., LTD.

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Industrial Park Pingyin, Jinan, China 250400

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Http://www.meide-casting.com

UPDATED 05/2020



Malleable Iron Pipe Fittings

BS Standard

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

玫德集团 MEIDE GROUP | MECH



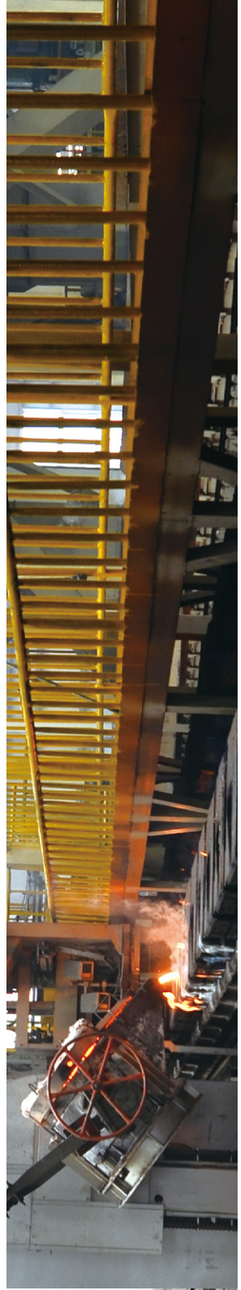
Company Profile

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

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

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

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

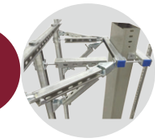




Company History

Anti-vibration Bracket

2018



"MECH" Malleable Iron Pipe Fittings for Fire Protection



2014

Extra-heavy Brass Pipe Nipples

2012



Valves



2011

Electric Power Fittings

2007



Bronze Fittings



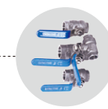
2003

Ductile Iron Pipe Fittings

2001



Ductile Iron Grooved Fittings and Couplings Ball Valves

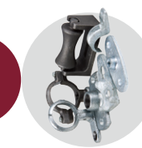




2000

Pipe Hangers and Brackets

1999



Malleable Iron Pipe Clamps



1998

1997

Steel Pipe Nipples
Red Brass Pipe Nipples



1997

1996

Cast Iron Pipe Fittings

1995



1995

Self Export, Developed US and European Market

1994

1993

1993

1992

1991

Conduit Body

1990

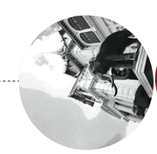


1990

1989

1988

Export, Main Market: Southeast Asia



1987

1987

1986

1985

1984

1983

1982

1981

1980

1979

1978

1977

1976

1975

1974

1973

1972

1971

Malleable Iron Pipe Fittings

1970



1970

1969

1968

1967

1966

1965

1964

1963

1962

1961

Business Started from Grey Iron Pot



1961

1960

State of the Art Equipment

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


Pattern


Core Making


Sand Mulling


Melting



Sinto FCMX


DISA


Tokyu AMF-111055


Pouring


Annealing


End Grinding Line


Threading, Air Pressure Test, and Anti-rust Treatment


Warehouse

Reliable Quality Assurance

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

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

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



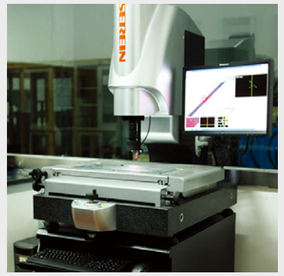
Metallurgical Microscope



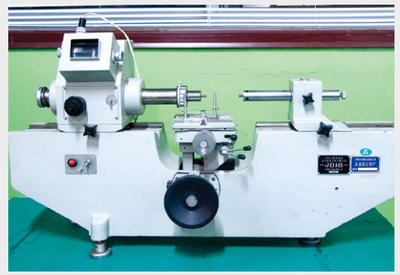
Spectrometer



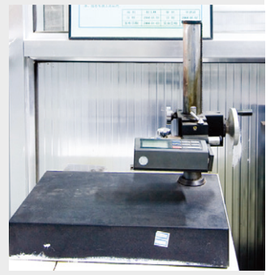
CMM



Projector



The Length of The Test Instrument



Roughness Tester



Carbon Sulfur Analyzer



Tensile Strength Testing Equipment

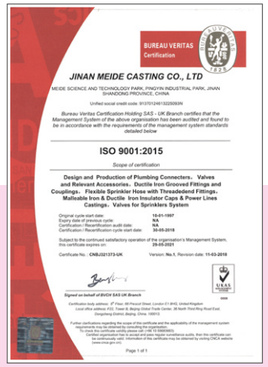


Sand Testing Instrument



Certificates

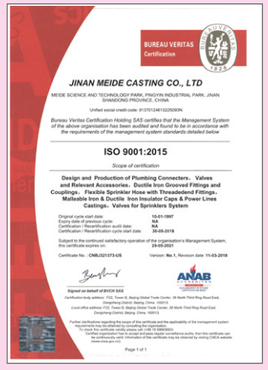








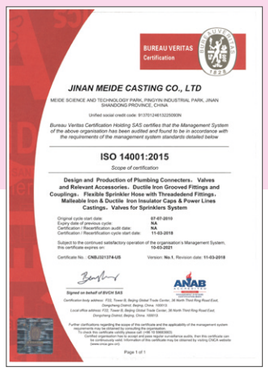












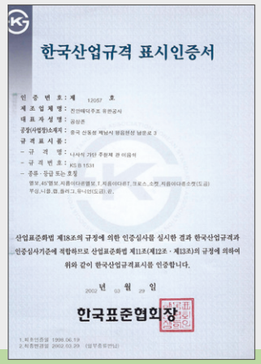














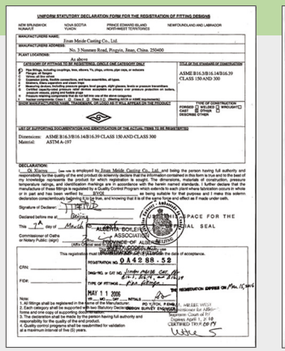


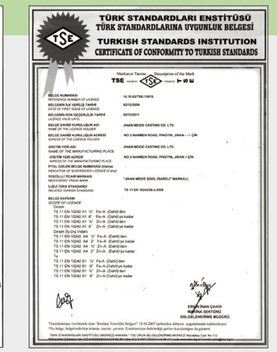












Malleable Iron Pipe Fittings

BS Standard

Material: BS EN 1562
Dimensions: BS EN 10242
Threads: ISO 7-1
Size Available: 1/8"- 6"


1#
Bend 90°, M/F


1#F
Bend 90°, M/F


1A
Short Bend 90°, M/F


1AF
Short Bend 90°, M/F


2#
Bend 90°, female


2A
Short Bend 90°, female


2AF
Short Bend 90°, female


3#
Bend 90°, male


40
Bend 45°, M/F


40F
Bend 45°, M/F


41
Bend 45°, female


85
Crossover


90
Elbow, 90°


90R
Reducing Elbow, 90°


92
Street Elbow, 90°


92R
Reducing Street Elbow, 90°


95
Union Elbow F/F


96
Union Elbow F/F


97
Union Elbow M/F


98
Union Elbow M/F


120
Elbow, 45°


121
Street Elbow, 45°


130
Tee


130R
Reducing Tee


130R
Reducing Tee


130R
Reducing Tee


130R
Reducing Tee


130R
Reducing Tee


131
Pitcher Tee


131R
Reducing Pitcher Tee


134
Service Tee


134R
Reducing Service Tee


165
Lateral Y Branche, 45°


180
Cross


180R
Reducing Cross


220
Socket


220S
Socket R/L


240
Reducing Socket


241
Bushing


241D
Bushing

245
Reducing Hexagon Nipple

246
Reducing Socket M/F

270
Parallel Thread Socket

280
Hexagon Nipple

291
Plain Plug

291LM
Plain Plug

291N
Countersunk Plug

291S
Solid Plug

300
Cap

310
Locknut

312
Backnut

321-4
Flange Bs4504

321-6
Flange 1600/4

321-H
Flange

321P
Flange

321PW
Flange

321TD
Flange

330
Flat Seat Union

330D
Flat Seat Union

331
Flat Seat Union M/F

340
Conical Joint Union

340Q
Deflection Union

341
Conical Joint Union M/F

342
Conical Joint Union

342A
Double Bronze Navy Union

526
Long Adapter M/F

529A
Long Extension Piece

529X
Short Extension Piece

1221
Side Outlet Elbow

1223
Side Outlet Tee

1224
Side Outlet Cross

LAA
Coupling Luck F/F

LAF
Coupling Luck M/F

LCC
Long Compression Coupling

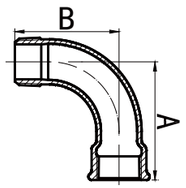
SCC
Short Compression Coupling

TCC
Compression Tee

1#

Bend 90°, M/F



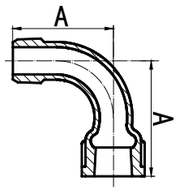


Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	35	40	48	55	69	85	105
	B	32	36	42	48	60	75	95
Size	Inch	11/2	2	21/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A	116	140	176	205	260	365	
	B	105	130	165	190	245	345	

1#F

Bend 90°, M/F



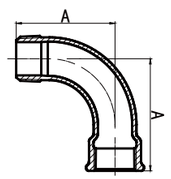


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	52	65	82	100	115	140
Size	Inch	21/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	175	205	260			

1A

Short Bend 90°, M/F



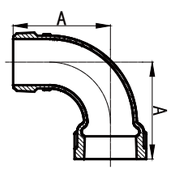


Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	30	36	45	50	63	76
Size	Inch	11/2	2	21/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	85	102	115	138	167	

1AF

Short Bend 90°, M/F



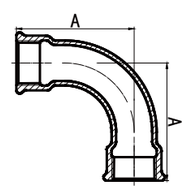


Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	30	36	45	50	63	76
Size	Inch	11/2	2	21/2			
	mm	40	50	65			
Dim. (mm)	A	85	102	115			

2#

Bend 90°, female



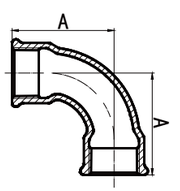


Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	40	48	55	69	85	105
Size	Inch	11/2	2	21/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	116	140	176	205	260	

2A

Short bend 90°, female



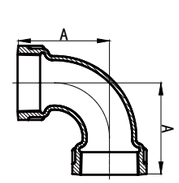


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	45	50	63	76	85	102
Size	Inch	21/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	115	138	167			

2AF

Short bend 90°, female



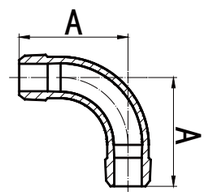


Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	30	36	45	50	63	76
Size	Inch	11/2	2	21/2	3		
	mm	40	50	65	80		
Dim. (mm)	A	85	102	113	138		

3#

Bend 90°, male



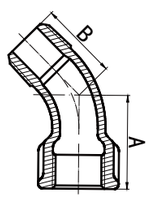


Size	Inch	3/8	1/2	3/4	1	11/4	11/2
	mm	10	15	20	25	32	40
Dim. (mm)	A	42	48	60	75	95	105
Size	Inch	2	21/2	3	4		
	mm	50	65	80	100		
Dim. (mm)	A	130	165	190	245		

40

Bend 45°, M/F



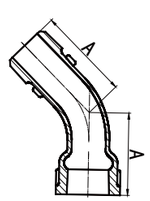


Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	26	30	36	43	51	64
	B	21	24	30	36	42	54
Size	Inch	11/2	2	21/2	3	4	6
	mm	40	50	65	80	100	150
Dim. (mm)	A	68	81	99	113	142	197
	B	58	70	86	100	126	176

40F

Bend 45°, M/F



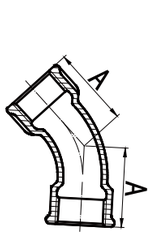


Size	Inch	3/4	1	11/4	11/2	2	21/2
	mm	20	25	32	40	50	65
Dim. (mm)	A	45	55	68	70	85	100
Size	Inch	3	4				
	mm	80	100				
Dim. (mm)	A	115	145				

41

Bend 45°, female



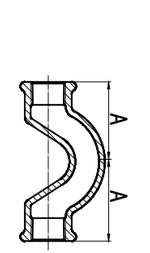


Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	26	30	36	43	51	64
Size	Inch	11/2	2	21/2	3	4	6
	mm	40	50	65	80	100	150
Dim. (mm)	A	68	81	99	113	142	197

85

Crossover



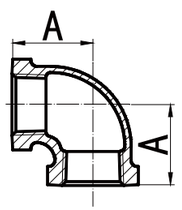


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	45	54	70	91	100.5	115
Size	Inch						
	mm						
Dim. (mm)	A						

90

Elbow, 90°



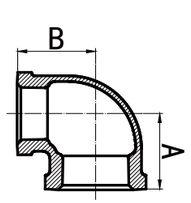


Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	19	21	25	28	33	38	45
Size	Inch	11/2	2	21/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	50	58	69	78	96	115	131

90R

Reducing Elbow, 90°



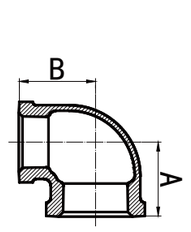


Size	Inch	4X11/4	4X11/2	4X2	4X21/2	4X3
	mm	100X32	100X40	100X50	100X65	100X80
Dim. (mm)	A	60	62	68	77	82
	B	85	85	86	89	90
Size	Inch	3/4X1/2	1X1/4	1X3/8	1X1/2	1X3/4
	mm	20X15	25X8	25X10	25X15	25X20
Dim. (mm)	A	30	27	30	32	35
	B	31	31	32	34	36

90R

Reducing Elbow, 90°



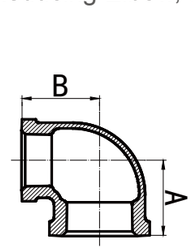


Size	Inch	3/8X1/8	3/8X1/4	6X4	1/2X1/4	1/2X3/8
	mm	10X6	10X8	150X100	15X8	15X10
Dim. (mm)	A	20.5	23	102	24	26
	B	21.5	23	125	24	26
Size	Inch	11/4X3/8	11/4X1/2	11/4X3/4	11/4X1	11/2X1/2
	mm	32X10	32X15	32X20	32X25	40X15
Dim. (mm)	A	32	32	36	40	34
	B	36.5	37	41	42	41

90R

Reducing Elbow, 90°



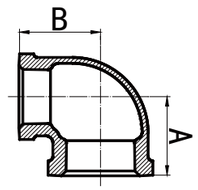


Size	Inch	3/4X1/4	3/4X3/8	11/2X11/4	2X1/2	2X3/4
	mm	20X8	20X10	40X32	50X15	50X20
Dim. (mm)	A	26	28	46	35	40
	B	27	28	48	47	48
Size	Inch	11/2X3/4	11/2X1	3X1	3X11/4	3X11/2
	mm	40X20	40X25	80X25	80X32	80X40
Dim. (mm)	A	37	42	50	53.5	56
	B	42	46	68	68	69

90R

Reducing Elbow, 90°



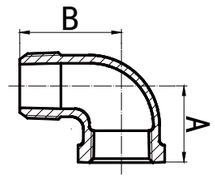


Size	Inch	2X1	2X11/4	2X11/2	21/2X3/4	21/2X1	21/2X2
	mm	50X25	50X32	50X40	65X20	65X25	65X50
Dim. (mm)	A	43	47	52	42.5	46.5	61
	B	50	53	56	57	58.5	66
Size	Inch	3X2	3X21/2	1/4X1/8	21/2X11/4	21/2X11/2	3X3/4
	mm	80X50	80X65	8X6	65X32	65X40	80X20
Dim. (mm)	A	60.5	71	18.5	50.5	53.5	45
	B	71	74	19	60	61	65

92

Street Elbow, 90°



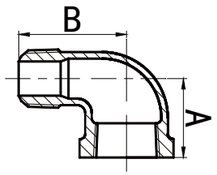


Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	19	21	25	28	33	38	45
	B	25	28	32	37	43	52	60
Size	Inch	11/2	2	21/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A	50	58	69	78	96	127.5	
	B	65	74	88	98	118	202	

92R

Reducing Street Elbow, 90°



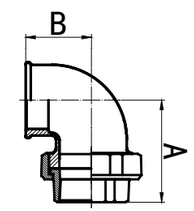


Size	Inch	3/4X1/2	1X3/4			
	mm	20X15	25X20			
Dim. (mm)	A	30	35			
	B	65.4	46			
Size	Inch					
	mm					
Dim. (mm)	A					
	B					

95

Union Elbow F/F

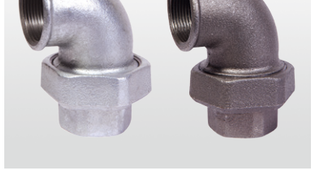


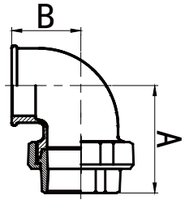


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	28	33	38	45	50	58
	B	58	62	72	82	90	100
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

96

Union Elbow F/F



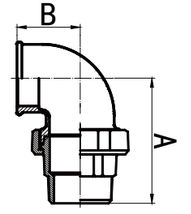


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	58	62	72	82	90	100
	B	28	33	38	45	50	58
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

97

Union Elbow M/F



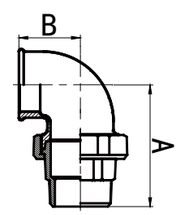


Size	Inch	11/2					
	mm	40					
Dim. (mm)	A	128					
	B	58					
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

98

Union Elbow M/F



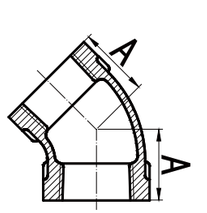


Size	Inch	1/2	3/4	1	11/4	11/2	
	mm	15	20	25	32	40	
Dim. (mm)	A	76	82	94	107	115	
	B	28	33	38	45	50	
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

120

Elbow, 45°

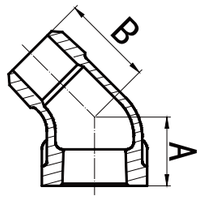




Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	16	18.5	20	22	25	28	33
Size	Inch	11/2	2	21/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	50	58	69	78	96	77.5	86

121 Street Elbow, 45°

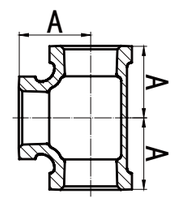




Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	16	18.5	20	22	25	28
	B	21	24	25	28	32	37
Size	Inch	11/4	11/2	2	21/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	33	36	43	49.5	55	66
	B	43	46	55	65	76	94

130 Tee

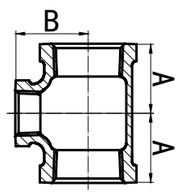




Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	19	21	25	28	33	38	45
Size	Inch	11/2	2	21/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	50	58	69	78	96	115	131

130R Reducing Tee

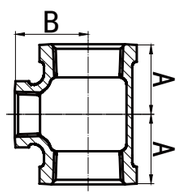




Size	Inch	4X1/2	4X3/4	4X1	4X11/4	4X11/2
	mm	100X15	100X20	100X25	100X32	100X40
Dim. (mm)	A	50	53	56	60	61
	B	79	79	81	84	84
Size	Inch	1/2X1/8	1/2X1/4	1/2X3/8	3/4X1/4	3/4X3/8
	mm	15X6	15X8	15X10	20X8	20X10
Dim. (mm)	A	22	24	26	26	28
	B	23	24	26	27	28

130R Reducing Tee

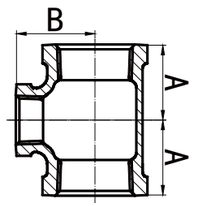




Size	Inch	4X2	4X21/2	4X3	3/8X1/4	6X4
	mm	100X50	100X65	100X80	10X8	150X100
Dim. (mm)	A	70	84	82	22	105
	B	86	92	90	22.5	125.5
Size	Inch	3/4X1/2	1X1/4	1X3/8	1X1/2	1X3/4
	mm	20X15	25X8	25X10	25X15	25X20
Dim. (mm)	A	30	28	30	32	35
	B	31	31	32	34	36

130R Reducing Tee

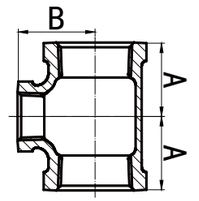




Size	Inch	6X2	6X3	11/4X3/4	11/4X1	11/2X3/8
	mm	150X50	150X80	32X20	32X25	40X10
Dim. (mm)	A	75	92.5	36	40	34
	B	115	120.5	41	42	39
Size	Inch	11/4X3/8	11/4X1/2	2X11/2	21/2X1/2	21/2X3/4
	mm	32X10	32X15	50X40	65X15	65X20
Dim. (mm)	A	32	34	52	40	43
	B	36	38	55	56	57

130R Reducing Tee

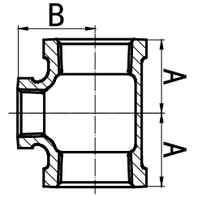




Size	Inch	11/2X1/2	11/2X3/4	11/2X1	11/2X11/4	2X3/8
	mm	40X15	40X20	40X25	40X32	50X10
Dim. (mm)	A	36	38	42	46	36
	B	42	44	46	48	46
Size	Inch	21/2X1	21/2X11/4	21/2X11/2	21/2X2	3X1/2
	mm	65X25	65X32	65X40	65X50	80X15
Dim. (mm)	A	47	52	55	61	42
	B	60	62	63	66	64

130R Reducing Tee

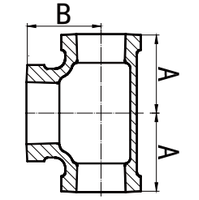




Size	Inch	2X1/2	2X3/4	2X1	2X11/4	3X2	3X3/4
	mm	50X15	50X20	50X25	50X32	80X50	80X20
Dim. (mm)	A	38	40	44	48	64	45
	B	48	50	52	54	73	65
Size	Inch	3X1	3X11/4	3X11/2	3X21/2	1/4X1/8	
	mm	80X25	80X32	80X40	80X65	8X6	
Dim. (mm)	A	51	55	58	72	18.5	
	B	67	70	71	76	19	

130R Reducing Tee

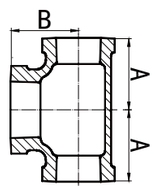




Size	Inch	1/2X1/2X3/4	1/2X1/2X1	3/4X3/4X1	3/4X3/4X11/4
	mm	15X15X20	15X15X25	20X20X25	20X20X32
Dim. (mm)	A	31	34	36	41
	B	30	32	35	36
Size	Inch	1X1X2	1X1X21/2	11/4X11/4X11/2	11/4X11/4X2
	mm	25X25X50	25X25X65	32X32X40	32X32X50
Dim. (mm)	A	51	60	48	54
	B	48.5	48	46	48

130R Reducing Tee

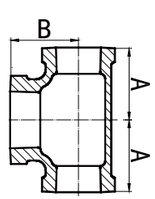




Size	Inch	1/2X1/2X3/4	1/2X1/2X1	3/4X3/4X1	3/4X3/4X11/4
	mm	15X15X20	15X15X25	20X20X25	20X20X32
Dim. (mm)	A	31	34	36	41
	B	30	32	35	36
Size	Inch	1X1X2	1X1X21/2	11/4X11/4X11/2	11/4X11/4X2
	mm	25X25X50	25X25X65	32X32X40	32X32X50
Dim. (mm)	A	51	60	48	54
	B	48.5	48	46	48

130R Reducing Tee

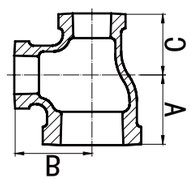




Size	Inch	1X1X11/4	1X1X11/2	2X2X21/2	21/2X21/2X3
	mm	25X25X32	25X25X40	50X50X65	65X65X80
Dim. (mm)	A	42	46	64	75
	B	40	42	59	72
Size	Inch	11/2X11/2X2	11/2X11/2X21/2	21/2X21/2X4	
	mm	40X40X50	40X40X65	65X65X100	
Dim. (mm)	A	55	65	90	
	B	52	55	78	

130R Reducing Tee

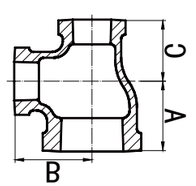




Size	Inch	3/4X1/2X1/2	1X1/2X1/2	1X3/4X3/4
	mm	20X15X15	25X15X15	25X20X20
Dim. (mm)	A	30	32	35
	B	31	34	36
	C	28	28	33
Size	Inch	11/2X3/4X3/4	11/2X1X1	11/2X11/4X11/4
	mm	40X20X20	40X25X25	40X32X32
Dim. (mm)	A	38	42	46
	B	43	46	48
	C	32	38	45

130R Reducing Tee

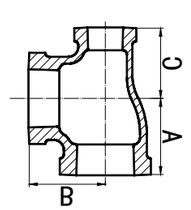




Size	Inch	11/4X1/2X1/2	11/4X3/4X3/4	11/4X1X1	2X1X1
	mm	32X15X15	32X20X20	32X25X25	50X25X25
Dim. (mm)	A	34	36	40	44
	B	38	41	42	51
	C	27	33	38	38
Size	Inch	2X11/4X11/4	2X11/2X11/2	21/2X2X2	3X2X2
	mm	50X32X32	50X40X40	65X50X50	80X50X50
Dim. (mm)	A	48	52	60.5	64
	B	54	55	66	73
	C	45	50	57	57

130R Reducing Tee

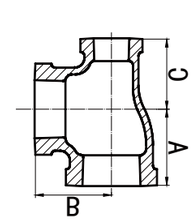




Size	Inch	3/4X1/2X3/4	1X1/4X1	1X1/2X1	11/4X1X11/4	11/2X1/2X11/2
	mm	20X15X20	25X8X25	25X15X25	32X25X32	40X15X40
Dim. (mm)	A	33	38	38	45	50
	B	33	38	38	45	50
	C	31	30	34	42	42
Size	Inch	11/2X3/4X11/2	1X3/4X1	11/4X1/2X11/4	11/4X3/4X11/4	11/2X1X11/2
	mm	40X20X40	25X20X25	32X15X32	32X20X32	40X25X40
Dim. (mm)	A	50	38	45	45	50
	B	50	38	45	45	50
	C	44	36	38	41	46

130R Reducing Tee

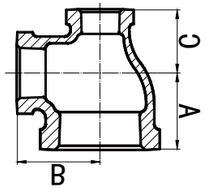




Size	Inch	11/2X11/4X11/2	2X1/2X2	2X3/4X2	2X1X2
	mm	40X32X40	50X15X50	50X20X50	50X25X50
Dim. (mm)	A	50	57	58	58
	B	50	57	58	58
	C	48	47.5	50	52
Size	Inch	2X11/4X2	2X11/2X2	21/2X11/2X21/2	21/2X2X21/2
	mm	50X32X50	50X40X50	65X40X65	65X50X65
Dim. (mm)	A	58	58	68.5	67
	B	58	58	68.5	67
	C	54	55	63.5	65

130R Reducing Tee

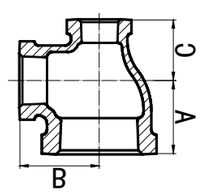




Size	Inch	4X3X2	3/4X1/2X1	1X1/2X3/4	11/4X3/4X1	11/4X1X1/2
	mm	100X80X50	20X15X25	25X15X20	32X20X25	32X25X15
Dim. (mm)	A	67	38	35	40	34
	B	83.5	34	36	42	38
	C	60	33	31	36	32
Size	Inch	11/4X1X3/4	11/4X1/2X3/4	11/4X1/2X11/4	11/4X3/4X1/2	11/2X1/2X1
	mm	32X25X20	32X15X20	32X15X25	32X20X15	40X15X25
Dim. (mm)	A	36	35	39	40	44
	B	41	38	41.5	42.5	46
	C	35	29	34	37	34

130R Reducing Tee

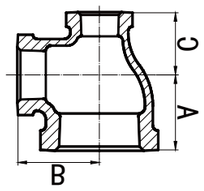




Size	Inch	11/2X3/4X1	11/2X3/4X11/4	11/2X1X1/2	11/2X3/4X11/4	11/2X11/4X1/2
	mm	40X20X25	40X20X32	40X25X15	40X25X32	40X32X15
Dim. (mm)	A	44	46	37	45	36
	B	46	48	41	47	42
	C	35	41	32	41.5	34
Size	Inch	2X1X1/2	2X11/4X1	2X11/4X11/2	11/2X11/4X3/4	11/2X11/4X1
	mm	50X25X40	50X32X25	50X32X40	40X32X20	40X32X25
Dim. (mm)	A	51	40	52	38	42
	B	55	51	55	44	46
	C	45.5	44	48	36	40

130R Reducing Tee

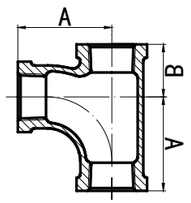




Size	Inch	11/2X11/4X2	2X11/2X1/2	2X11/2X3/4	2X11/2X1	2X11/2X11/4
	mm	40X32X50	50X40X15	50X40X20	50X40X25	50X40X32
Dim. (mm)	A	55	38	40	44	48
	B	51.5	48	50	52	54
	C	53.5	36	39	42	46
Size	Inch	21/2X2X1/2	21/2X2X1	21/2X2X11/4	3X21/2X2	
	mm	65X50X15	65X50X25	65X50X32	80X65X50	
Dim. (mm)	A	57	53	57	67	
	B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

131 Pitcher Tee

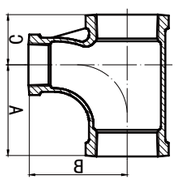




Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	45	50	63	76	85	102
	B	24	28	33	40	43	53
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

131R Reducing Pitcher Tee

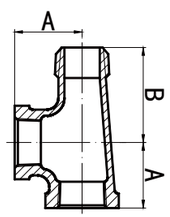




Size	Inch	3/4X1/2	1X1/2	1X3/4	1X3/4X3/4
	mm	20X15	25X15	25X20	25X20X20
Dim. (mm)	A	47	49	53	53
	B	48	51	54	54
	C	25	28	30	28
Size	Inch	11/4X1/2	11/4X3/4	11/2X3/4	11/2X1
	mm	32X15	32X20	40X20	40X25
Dim. (mm)	A	51	55	55	66
	B	56	58	61	71
	C	30	33	33	36

134 Service Tee

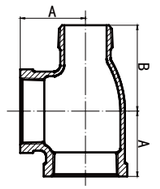




Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	28.5	33.5	38	44.5	49.5	57
	B	41.5	48	54.5	62	68.5	83
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

134R Reducing Service Tee

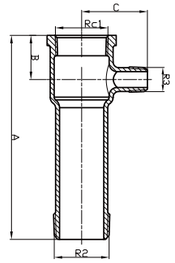




Size	Inch	2X11/4	21/2X2	3X21/2			
	mm	50X40	65X50	80X65			
Dim. (mm)	A	57	69	78			
	B	75	88	106			
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

137RL Water Knockout Drum

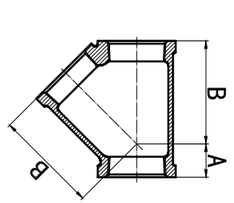




Size	Inch	11/2X1/2	11/2X3/4X9.45	11/2X3/4X9.45
	mm	40X15	40X15X240	40X20X240
Dim. (mm)	A	220±3.5	240±3.5	240±3.5
	B	38±2.0	38±2.0	38±2.0
	C	58±2.5	58±2.5	58±2.5
	Rc1	Rc 11/2	Rc 11/2	Rc 11/2
	R2	R 11/2	R 11/2	R 11/2
	R3	R 1/2	R 1/2	R 3/4

165 Lateral Y Branche, 45°

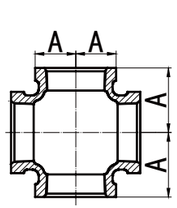




Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	15.5	18.3	21.6	26	27.9	31.5
	B	43.4	52	61.7	74.2	83.3	99.8
Size	Inch	21/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	38.6	43.4	51			
	B	120	141	177			

180 Cross

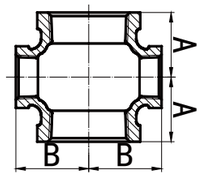




Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	19	21	25	28	33	38
Size	Inch	11/4	11/2	2	21/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	45	50	58	69	78	96

180R Reducing Cross

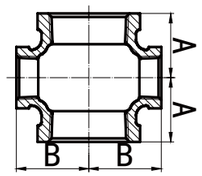




Size	Inch	4X1	4X11/4	4X11/2	4X2	4X21/2
	mm	100X25	100X32	100X40	100X50	100X65
Dim. (mm)	A	56	60	61	70	84
	B	81	84	84	86	92
Size	Inch	11/2X1/2	11/2X3/4	11/2X1	11/2X11/4	2X3/4
	mm	40X15	40X20	40X25	40X32	50X20
Dim. (mm)	A	36	38	42	46	40
	B	42	44	46	48	50

180R Reducing Cross

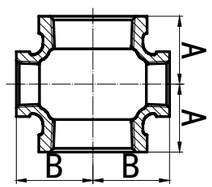




Size	Inch	4X3	3/4X1/2	1X1/2	1X3/4	11/4X1/2
	mm	100X80	20X15	25X15	25X20	32X15
Dim. (mm)	A	82	30	32	35	34
	B	90	31	34	36	38
Size	Inch	2X1	2X11/4	2X11/2	21/2X3/4	21/2X1
	mm	50X25	50X32	50X40	65X20	65X25
Dim. (mm)	A	44	48	52	43	47
	B	52	54	55	57	60

180R Reducing Cross

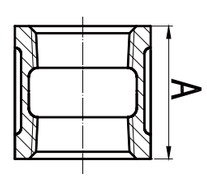




Size	Inch	11/4X3/4	11/4X1	21/2X2	3X3/4	3X1	21/2X11/4
	mm	32X20	32X25	65X50	80X20	80X25	65X32
Dim. (mm)	A	36	40	61	45	51	52
	B	41	42	66	65	67	62
Size	Inch	21/2X11/2	3X11/4	3X11/2	3X2	3X21/2	
	mm	65X40	80X32	80X40	80X50	80X65	
Dim. (mm)	A	55	55	58	64	72	
	B	63	70	71	73	76	

220 Socket

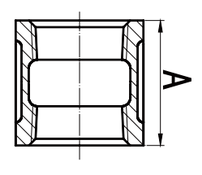




Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	25	27	30	36	39	45	50
Size	Inch	11/2	2	21/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	55	65	74	80	94	95	105

220S Socket R/L

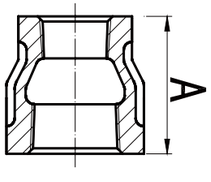




Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	36	39	45	50	55	65
Size	Inch						
	mm						
Dim. (mm)	A						

240 Reducing Socket

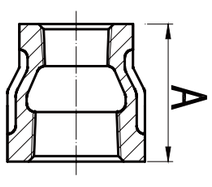




Size	Inch	4X1	4X11/4	4X11/2	4X2	4X21/2
	mm	100X25	100X32	100X40	100X50	100X65
Dim. (mm)	A	94	94	94	94	94
Size	Inch	1/2X1/8	1/2X1/4	1/2X3/8	3/4X1/8	3/4X1/4
	mm	15X6	15X8	15X10	20X6	20X8
Dim. (mm)	A	36	36	36	39	39

240 Reducing Socket

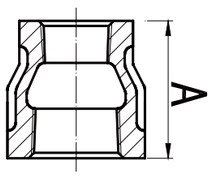




Size	Inch	4X3	3/8X1/8	3/8X1/4	5X4	6X4
	mm	100X80	10X6	10X8	125X100	150X100
Dim. (mm)	A	94	30	30	122	105
Size	Inch	3/4X3/8	3/4X1/2	1X1/4	1X3/8	1X1/2
	mm	20X10	20X15	25X8	25X10	25X15
Dim. (mm)	A	39	39	45	45	45

240 Reducing Socket

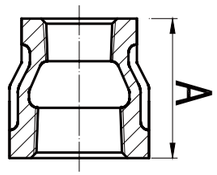




Size	Inch	6X2	6X3	11/4X3/8	11/4X1/2	11/4X3/4
	mm	150X50	150X80	32X10	32X15	32X20
Dim. (mm)	A	105	105	50	50	50
Size	Inch	1X3/4	11/4X1/4	2X1	2X11/4	2X11/2
	mm	25X20	32X8	50X25	50X32	50X40
Dim. (mm)	A	45	50	65	65	65

240 Reducing Socket

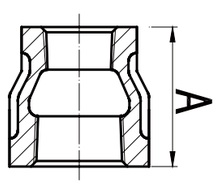




Size	Inch	6X2	6X3	11/4X3/8	11/4X1/2	11/4X3/4	1X3/4
	mm	150X50	150X80	32X10	32X15	32X20	25X20
Dim. (mm)	A	105	105	50	50	50	45
Size	Inch	11/4X1/4	2X1	2X11/4	2X11/2	11/4X1	11/2X1/4
	mm	32X8	50X25	50X32	50X40	32X25	40X8
Dim. (mm)	A	50	65	65	65	50	55

240 Reducing Socket

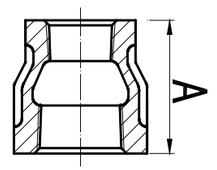




Size	Inch	11/2X3/8	11/2X1/2	11/2X3/4	21/2X1/2	21/2X3/4	21/2X1
	mm	40X10	40X15	40X20	65X15	65X20	65X25
Dim. (mm)	A	55	55	55	74	74	74
Size	Inch	21/2X11/4	21/2X11/2	11/2X1	11/2X11/4	2X1/2	2X3/4
	mm	65X32	65X40	40X25	40X32	50X15	50X20
Dim. (mm)	A	74	74	55	55	65	65

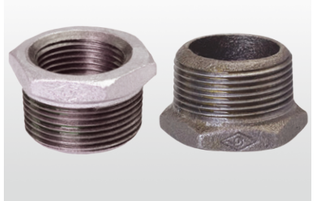
240 Reducing Socket

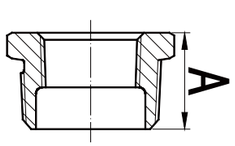




Size	Inch	3X11/4	21/2X2	3X1/2	3X3/4	3X1	3X11/2
	mm	80X32	65X50	80X15	80X20	80X25	80X40
Dim. (mm)	A	80	74	80	80	80	80
Size	Inch	3X2	3X21/2	1/4X1/8			
	mm	80X50	80X65	8X6			
Dim. (mm)	A	80	80	27			

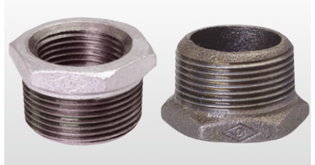
241 Bushing

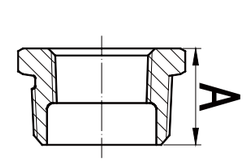




Size	Inch	4X3/4	4X1	4X11/4	4X11/2	4X3
	mm	100X20	100X25	100X32	100X40	100X80
Dim. (mm)	A	51	51	51	51	51
Size	Inch	1/2X3/8	3/4X1/8	3/4X1/4	3/4X3/8	3/4X1/2
	mm	15X10	20X6	20X8	20X10	20X15
Dim. (mm)	A	24	26	26	26	26

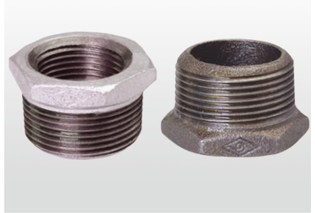
241 Bushing

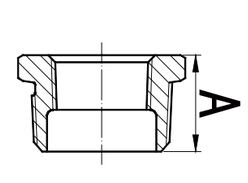




Size	Inch	3/8X1/8	3/8X1/4	5X4	6X5	6X21/2
	mm	10X6	10X8	125X100	150X125	150X65
Dim. (mm)	A	20	20	47	69	69
Size	Inch	1X1/4	1X3/8	1X1/2	1X3/4	11/4X3/8
	mm	25X8	25X10	25X15	25X20	32X10
Dim. (mm)	A	29	29	29	29	31

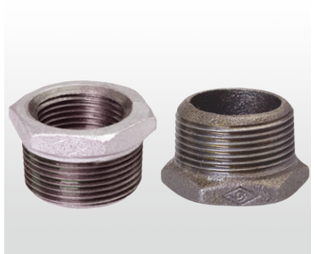
241 Bushing

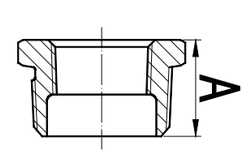




Size	Inch	1/2X1/8	1/2X1/4	11/4X1	11/2X1/4	11/2X3/8
	mm	15X6	15X8	32X25	40X8	40X10
Dim. (mm)	A	24	24	31	31	31
Size	Inch	11/4X1/2	11/4X3/4	21/2X11/2	21/2X2	3X2
	mm	32X15	32X20	65X40	65X50	80X50
Dim. (mm)	A	31	31	40	40	44

241 Bushing

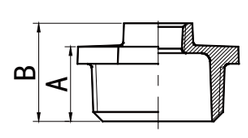




Size	Inch	11/2X1/2	11/2X3/4	11/2X1	11/2X11/4	2X1	3X21/2
	mm	40X15	40X20	40X25	40X32	50X25	80X65
Dim. (mm)	A	31	31	31	31	35	44
Size	Inch	1/4X1/8	2X11/4	2X11/2	21/2X1/2	21/2X3/4	
	mm	8X6	50X32	50X40	65X15	65X20	
Dim. (mm)	A	20	35	35	40	40	

241D Bushing

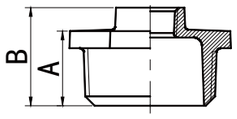




Size	Inch	2X1/2	2X3/4	21/2X1	21/2X11/4	3X1/2
	mm	50X15	50X20	65X25	65X32	80X15
Dim. (mm)	A	35	35	40	40	44
	B	48	48	54	54	59
Size	Inch	6X4	3X3/4	3X1	3X11/4	3X11/2
	mm	150X100	80X20	80X25	80X32	80X40
Dim. (mm)	A	63	44	44	44	44
	B	86	59	59	59	59

241D Bushing

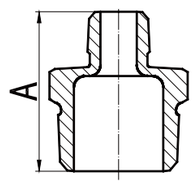




Size	Inch	4X2	4X21/2	6X3		
	mm	100X50	100X65	150X80		
Dim. (mm)	A	51	51	63		
	B	69	69	86		
Size	Inch					
	mm					
Dim. (mm)	A					
	B					

245 Reducing Hexagon Nipple

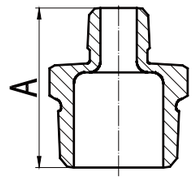




Size	Inch	4X2	4X21/2	4X3	3/8X1/4	1/2X1/4
	mm	100X50	100X65	100X80	10X8	15X8
Dim. (mm)	A	87	87	87	38	44
Size	Inch	11/4X3/4	11/4X1	11/2X1/2	11/2X3/4	11/2X1
	mm	32X20	32X25	40X15	40X20	40X25
Dim. (mm)	A	57	57	59	59	59

245 Reducing Hexagon Nipple

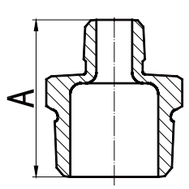




Size	Inch	1/2X3/8	3/4X1/4	3/4X3/8	3/4X1/2	1X1/2
	mm	15X10	20X8	20X10	20X15	25X15
Dim. (mm)	A	44	47	47	47	53
Size	Inch	11/2X11/4	2X1/2	2X3/4	2X1	2X11/4
	mm	40X32	50X15	50X20	50X25	50X32
Dim. (mm)	A	59	68	68	68	68

245 Reducing Hexagon Nipple

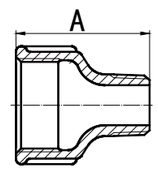




Size	Inch	1X3/4	11/4X1/2	21/2X11/4	21/2X11/2	21/2X2	2X11/2
	mm	25X20	32X15	65X32	65X40	65X50	50X40
Dim. (mm)	A	53	57	75	75	75	68
Size	Inch	1/4X1/8	21/2X1	3X11/2	3X2	3X21/2	
	mm	8X6	65X25	80X40	80X50	80X65	
Dim. (mm)	A	31	75	83	83	83	

246 Reducing Socket M/F

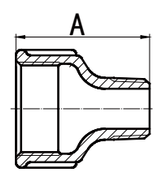




Size	Inch	3/8X1/4	1/2X1/4	1/2X3/8	3/4X3/8	3/4X1/2
	mm	10X8	15X8	15X10	20X10	20X15
Dim. (mm)	A	35	43	43	48	48
Size	Inch	11/2X11/4	2X1	2X11/4	2X11/2	1X1/2
	mm	40X32	50X25	50X32	50X40	25X15
Dim. (mm)	A	63	70	70	70	55

246 Reducing Socket M/F

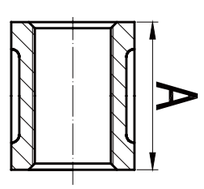




Size	Inch	1X3/4	11/4X1/2	11/4X3/4	11/4X1	11/2X3/4
	mm	25X20	32X15	32X20	32X25	40X20
Dim. (mm)	A	55	60	60	60	63
Size	Inch	11/2X1				
	mm	40X25				
Dim. (mm)	A	63				

270 Parallel Thread Socket

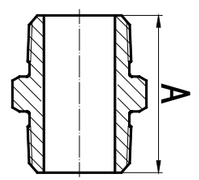




Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	25	27	30	36	39	45	50
Size	Inch	6	11/2	2	21/2	3	4	
	mm	150	40	50	65	80	100	
Dim. (mm)	A	120	55	65	74	80	94	

280 Hexagon Nipple

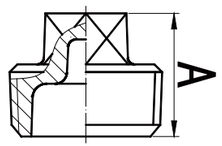




Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	29	36	38	44	47	53	57
Size	Inch	5	6	11/2	2	21/2	3	4
	mm	125	150	40	50	65	80	100
Dim. (mm)	A	103	110	59	68	75	83	95

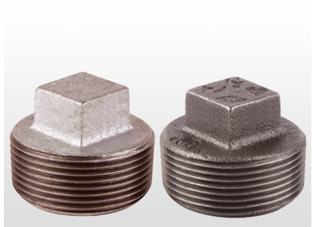
291 Plain Plug

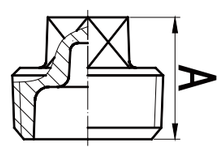




Size	Inch	1/8	1/4	3/8	3/4	1	11/4	11/2
	mm	6	8	10	20	25	32	40
Dim. (mm)	A Min	11	14	15	20	23	29	30
Size	Inch	2	21/2	3	4	6		
	mm	50	65	80	100	150		
Dim. (mm)	A Min	36	39	44	58	71.5		

291LM Plain Plug

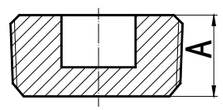




Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	25	28.5	32.5	35.1	37.6	40.1
Size	Inch	21/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	46	50	64.5			

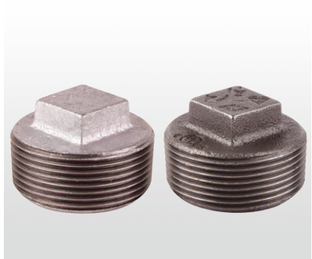
291N Countersunk Plug

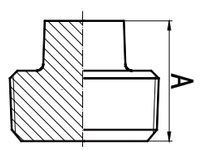




Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A Min	14.2	16	19	20.3	21.1	22.4
Size	Inch	21/2	3				
	mm	65	80				
Dim. (mm)	A Min	27.2	38.7				

291S Solid Plug

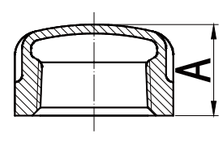




Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A Min	14	15	18	20	23	29
Size	Inch	11/2	2	21/2	3		
	mm	40	50	65	80		
Dim. (mm)	A Min	30	36	39	44		

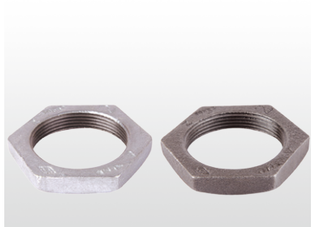
300 Cap

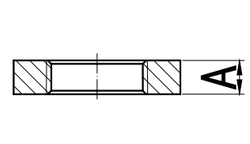




Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A Min	13	15	17	19	22	24	27
Size	Inch	11/2	2	21/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A Min	27	32	35	38	45	54	61

310 Locknut

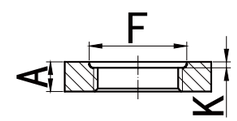




Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	6	7	8	9	10	11
Size	Inch	11/2	2	21/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	12	13	16	19	23	

312 Backnut

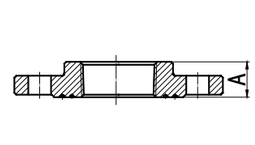




Size	Inch	1/2	3/4	1	11/4	11/2	2	4
	mm	15	20	25	32	40	50	100
Dim. (mm)	A Min	7.9	8.6	9.7	10.7	11.9	13.5	20.3
	F Min	24.6	31.2	38.1	47.2	53.9	66.8	127
	K	1.5	1.5	1.5	1.5	1.5	2.3	3.3

321-4 Flange Bs4504



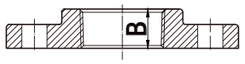


Size	Inch	11/4	11/2	2	21/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	23	23	28	35	38	38
Size	Inch	6					
	mm	150					
Dim. (mm)	A	46					

321-6

Flange 1600/4

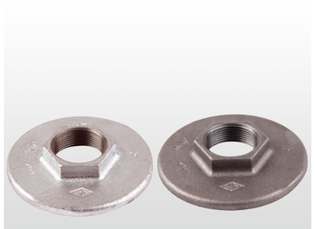


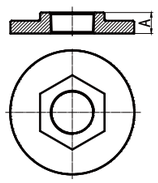


Size	Inch	11/4	11/2	2	21/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	B	20	20	22	26	28	34
Size	Inch	6					
	mm	150					
Dim. (mm)	B	40					

321-H

Flange



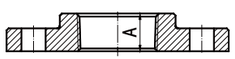


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	15	16	19	21	21	26
Size	Inch	21/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	30	33	39			

321P

Flange

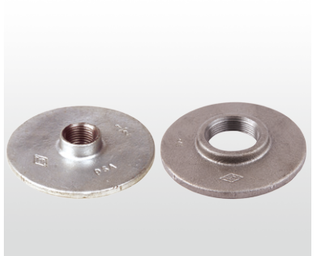


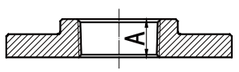


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	15	16	19	21	21	26
Size	Inch	21/2	3	4	5	6	
	mm	65	80	100	125	150	
Dim. (mm)	A	30	33	39	40	40	

321PW

Flange



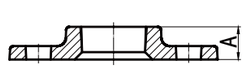


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	15	16	19	21	21	26
Size	Inch	21/2	3	4	5	6	
	mm	65	80	100	125	150	
Dim. (mm)	A	30	33	39	40	40	

321TD

Flange

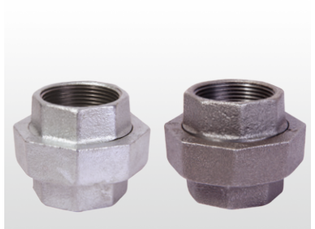


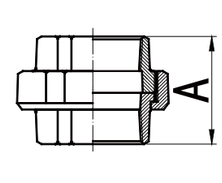


Size	Inch	1	11/4	11/2	2	21/2	3
	mm	25	32	40	50	65	80
Dim. (mm)	A	16	17.4	23	25	25	26.8
Size	Inch	4	6				
	mm	100	150				
Dim. (mm)	A	31.5	35				

330

Flat Seat Union

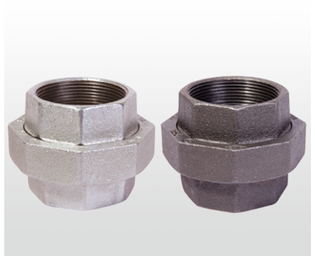


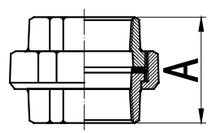


Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	38	42	45	48	52	58	65
Size	Inch	11/2	2	21/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A	70	78	85	95	100	144	

330D

Flat Seat Union



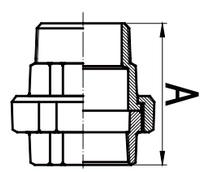


Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	38	42	45	48	52	58	65
Size	Inch	11/2	2	21/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A	70	78	85	95	100	144	

331

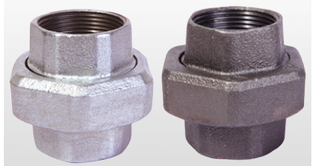
Flat Seat Union M/F

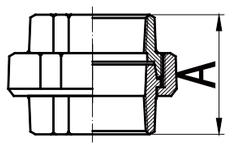




Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	66	72	80	90	95	106
Size	Inch	21/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	118	130	133			

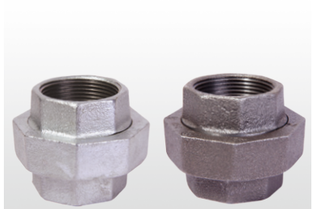
340 Conical Joint Union

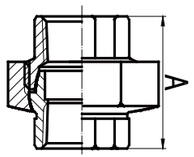




Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	38	42	45	48	52	58
Size	Inch	11/4	11/2	2	21/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	65	70	78	85	95	110

340Q Deflection Union

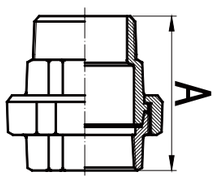




Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	46	49	55	64	74.5	83
Size	Inch						
	mm						
Dim. (mm)	A						

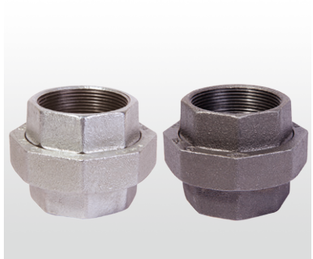
341 Conical Joint Union M/F

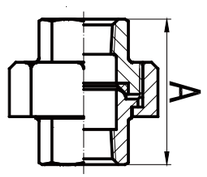




Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	55	55	66	72	80	90
Size	Inch	11/2	2	21/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	95	106	118	130	133	

342 Conical Joint Union

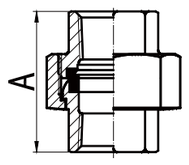




Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A Min	32	36.5	41	43.5	49.5	52.5	57.5
Size	Inch	11/2	2	21/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A Min	61	70	82	89	98	147	

342A Double Bronze Navy Union

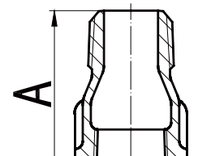




Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	48	52	58	65	70	78
Size	Inch						
	mm						
Dim. (mm)	A						

526 Long Adapter M/F

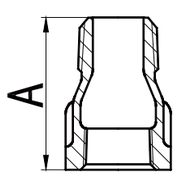




Size	Inch	1/2X30	1/2X40	1/2X50	1/2X60	1/2X100
	mm	15X30	15X40	15X50	15X60	15X100
Dim. (mm)	A	30	40	50	60	100
Size	Inch	1/2X30	1/2X40	1/2X50	1/2X60	1/2X100
	mm	15X30	15X40	15X50	15X60	15X100
Dim. (mm)	A	30	40	50	60	100

529A Long Extension Piece

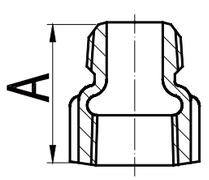




Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	33	35	43	48	55	60
Size	Inch	11/2	2	21/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	61.5	68	76	83	97	

529X Short Extension Piece



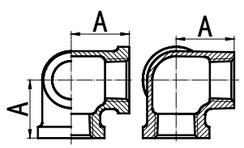


Size	Inch	1/2					
	mm	15					
Dim. (mm)	A	32					
Size	Inch						
	mm						
Dim. (mm)	A						

1221

Side Outlet Elbow



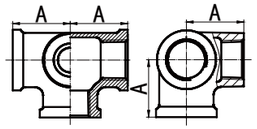


Size	Inch	1/2	3/4	1	11/2	2	
	mm	15	20	25	40	50	
Dim. (mm)	A	28	33	38	50	58	
Size	Inch						
	mm						
Dim. (mm)	A						

1223

Side Outlet Tee



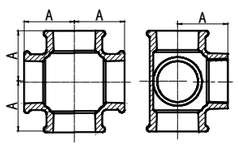


Size	Inch	1/2	3/4	1	11/4		
	mm	15	20	25	32		
Dim. (mm)	A	28	33	38	45		
Size	Inch						
	mm						
Dim. (mm)	A						

1224

Side Outlet Cross



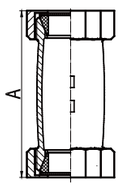


Size	Inch	11/4	11/2				
	mm	32	40				
Dim. (mm)	A	45	50				
Size	Inch						
	mm						
Dim. (mm)	A						

LAA

Coupling Luck F/F



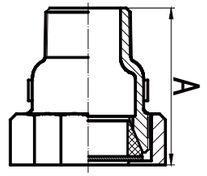


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	95	104	110	114	122	129
Size	Inch						
	mm						
Dim. (mm)	A						

LAF

Coupling Luck M/F



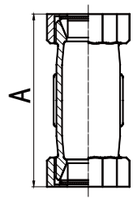


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	59	63	65	69	71	79
Size	Inch						
	mm						
Dim. (mm)	A						

LCC

Long Compression Coupling

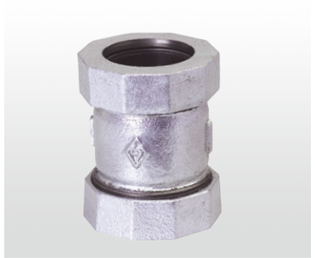


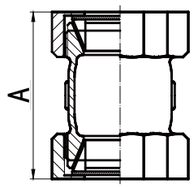


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	93	101	109	114	118	121
Size	Inch	21/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	137	145	155			

SCC

Short Compression Coupling



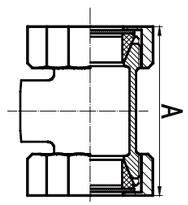


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	62	69	73	79	79	84
Size	Inch	21/2	3				
	mm	65	80				
Dim. (mm)	A	100	110				

TCC

Compression Tee





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

Malleable Iron Collar Fittings

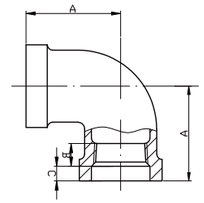
BS Standard



90

Elbow, 90°



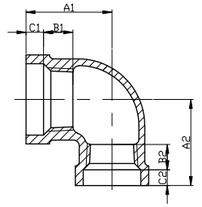


Size/ 规格	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim./ 尺寸 (mm)	A	35.5	41	47	55	60	69
	B	11	13	15	17	18	20
	C	7	8	9	10	10	11
Size/ 规格	Inch	3	4	6			
	mm	80	100	150			
Dim./ 尺寸 (mm)	A	91	110	145			
	B	25.5	28.5	33			
	C	13	14	15			

90R

Reducing Elbow, 90°



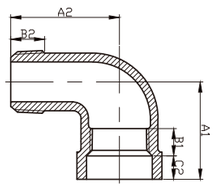


Size/ 规格	Inch	3/4X1/2	1X3/4	11/4X1	
	mm	20X15	25X20	32X25	
Dim./ 尺寸 (mm)	A1	38	44	50	
	B1	13	15	17	
	C1	8	9	10	
	A2	38	44	51	
	B2	11	13	15	
	C2	7	8	9	

92

Street Elbow, 90°



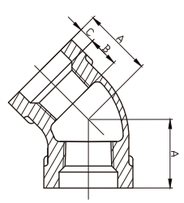


Size/ 规格	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim./ 尺寸 (mm)	A1	35	41	47	55	60	69
	B1	11	13	15	17	18	20
	C1	7	8	9	10	10	11
	A2	41	48	54	62	68	82.5
	B2	14	15	18	19	20	22

120

Elbow, 45°

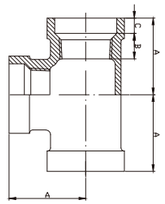




Size/ 规格	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim./ 尺寸 (mm)	A	28	33	38	44	46	53
	B	11	13	15	17	18	20
	C	7	8	9	10	10	11
Size/ 规格	Inch	3	4	6			
	mm	80	100	150			
Dim./ 尺寸 (mm)	A	67	79	97			
	B	25.5	28.5	33			
	C	13	14	15			

130 Tee

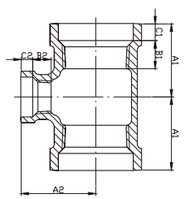




Size/ 规格	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim./ 尺寸 (mm)	A	35.5	41	47	55	60	69
	B	11	13	15	17	18	20
	C	7	8	9	10	10	11
Size/ 规格	Inch	3	4	6			
	mm	80	100	150			
Dim./ 尺寸 (mm)	A	91	110	145			
	B	25.5	28.5	33			
	C	13	14	15			

130R Reducing Tee

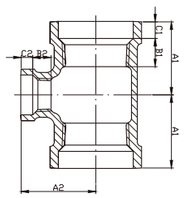




Size/ 规格	Inch	3/4X1/2	1X1/2	1X3/4	11/4X1/2	11/4X3/4
	mm	20X15	25X15	25X20	32X15	32X20
Dim./ 尺寸 (mm)	A1	38	41	43.5	44	46
	B1	13	15	15	17	17
	C1	8	9	9	10	10
	A2	38	41	44.5	45	49
	B2	11	11	13	11	13
	C2	7	7	8	7	8

130R Reducing Tee

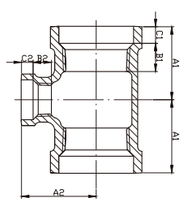




Size/ 规格	Inch	11/4X1	11/2X1/2	11/2X3/4	11/2X1	11/2X11/4
	mm	32X25	40X15	40X20	40X25	40X32
Dim./ 尺寸 (mm)	A1	50	46	48.5	52	56
	B1	17	18	18	18	18
	C1	10	10	10	10	10
	A2	51	49	52.5	54.5	57.5
	B2	15	11	13	15	17
	C2	9	7	8	9	10

130R Reducing Tee

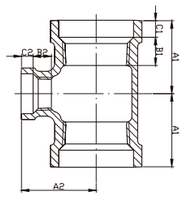




Size/ 规格	Inch	2X1/2	2X3/4	2X1	2X11/4	2X11/2
	mm	50X15	50X20	50X25	50X32	50X40
Dim./ 尺寸 (mm)	A1	49	51.5	54.5	59	62
	B1	20	20	20	20	20
	C1	11	11	11	11	11
	A2	55	58	60	63	64.5
	B2	11	13	15	17	18
	C2	7	8	9	10	10

130R Reducing Tee

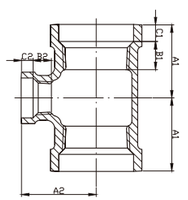




Size/ 规格	Inch	3X3/4	3X1	3X11/4	3X2	4X3/4
	mm	80X20	80X25	80X32	80X50	100X20
Dim./ 尺寸 (mm)	A1	60	63	68	77	68
	B1	25.5	25.5	25.5	25.5	28.5
	C1	13	13	13	13	14
	A2	74	76	79	84	88
	B2	13	15	17	20	13
	C2	8	9	10	11	8

130R Reducing Tee

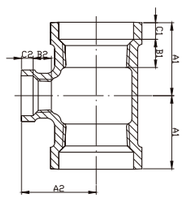




Size/ 规格	Inch	4X1	4X11/4	4X2	4X3	6X3
	mm	100X25	100X32	100X50	100X80	150X80
Dim./ 尺寸 (mm)	A1	71	75	83.5	97	107.5
	B1	28.5	28.5	28.5	28.5	33
	C1	14	14	14	14	15
	A2	95	96	97.5	104	133.5
	B2	15	17	20	25.5	25.5
	C2	9	10	11	13	13

130R Reducing Tee

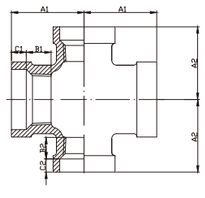




Size/ 规格	Inch	6X4	3/4X1/2X1/2			
	mm	150X100	20X15X15			
Dim./ 尺寸 (mm)	A1	119.5	38.5			
	B1	33	13			
	C1	15	8			
	A2	139.5	38			
	B2	28.5	11			
	C2	14	7			
	A3		35.5			

180R Reducing Cross

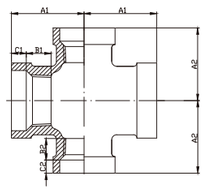




Size/ 规格	Inch	1X1/2	11/4X3/4	11/4X1	11/2X1/2	11/2X3/4
	mm	25X15	32X20	32X25	40X15	40X20
Dim./ 尺寸 (mm)	A1	41	46	50	46	48
	B1	15	17	17	18	18
	C1	9	10	10	10	10
	A2	41	49	51	49	52
	B2	11	13	15	11	13
	C2	7	8	9	7	8

180R Reducing Cross

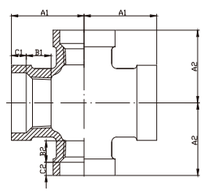




Size/ 规格	Inch	11/2X1	2X3/4	2X1	3X3/4	3X1
	mm	40X25	50X20	50X25	80X20	80X25
Dim./ 尺寸 (mm)	A1	52	51.5	54.5	60	63
	B1	18	20	20	25.5	25.5
	C1	10	11	11	13	13
	A2	54.5	58	60	74	76
	B2	15	13	15	13	15
	C2	9	8	9	8	9

180R Reducing Cross

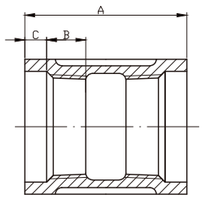




Size/ 规格	Inch	3X11/4	4X3/4	4X1	4X11/4	6X3
	mm	80X32	100X20	100X25	100X32	150X80
Dim./ 尺寸 (mm)	A1	68	68	71	75	107.5
	B1	25.5	28.5	28.5	28.5	33
	C1	13	14	14	14	15
	A2	79	88	90	96	133.5
	B2	17	13	15	17	25.5
	C2	10	8	9	10	13

220 Socket

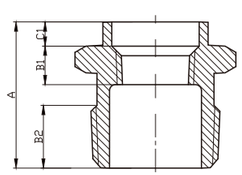




Size/ 规格	Inch	1/2	3/4	1	11/4	11/2
	mm	15	20	25	32	40
Dim./ 尺寸 (mm)	A	48	54	60	69	74.5
	B	11	13	15	17	18
	C	7	8	9	10	10
Size/ 规格	Inch	2	3	4	6	
	mm	50	80	100	150	
Dim./ 尺寸 (mm)	A	86	106.5	121.5	146.5	
	B	20	25.5	28.5	33	
	C	11	13	14	15	

241 Bushing

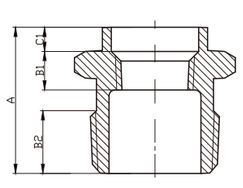




Size/ 规格	Inch	3/4X1/2	1X1/2	1X3/4	11/4X3/4	11/4X1
	mm	20X15	25X15	25X20	32X20	32X25
Dim./ 尺寸 (mm)	A	38	42	42	49	50
	B1	11	11	14.5	13	17
	C1	7	7	7	8	9
	B2	14.5	17	17	19	19
Size/ 规格	Inch	11/2X3/4	11/2X1	11/2X11/4	2X3/4	2X1
	mm	40X20	40X25	40X32	50X20	50X25
Dim./ 尺寸 (mm)	A	49	50	51	56	57
	B1	13	15	19	13	15
	C1	8	9	10	8	9
	B2	19	19	19	22	22

241 Bushing

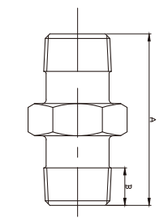




Size/ 规格	Inch	2X11/4	2X11/2	3X1	3X11/2	3X2
	mm	50X32	50X40	80X25	80X40	80X50
Dim./ 尺寸 (mm)	A	58	58	66	67	68
	B1	17	18	15	18	20
	C1	10	10	9	10	11
	B2	22	22	31	31	31
Size/ 规格	Inch	4X3	6X3	6X4		
	mm	100X80	150X80	150X100		
Dim./ 尺寸 (mm)	A	78	93	94		
	B1	25.5	25.5	28.5		
	C1	13	13	14		
	B2	36	41	41		

280 Hexagon Nipple

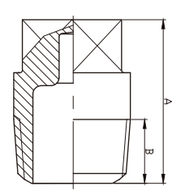




Size/ 规格	Inch	1/2	3/4	1	11/4	11/2
	mm	15	20	25	32	40
Dim./ 尺寸 (mm)	A	58	64	71	80	81
	B	13	14	16	19	19
Size/ 规格	Inch	2	3	4	6	
	mm	50	80	100	150	
Dim./ 尺寸 (mm)	A	94	110	130	146	
	B	23	29	35	40	

291 Plug

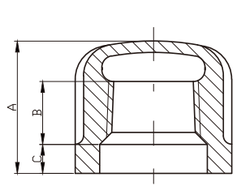




Size/ 规格	Inch	1/2	3/4	1	11/4	11/2
	mm	15	20	25	32	40
Dim./ 尺寸 (mm)	A	30	34.5	40	44.5	46.5
	B	15	16.5	19	21.5	21.5
Size/ 规格	Inch	2	3	4	6	
	mm	50	80	100	150	
Dim./ 尺寸 (mm)	A	51.5	65	76	87.5	
	B	25.5	33	39	43.5	

300 Cap

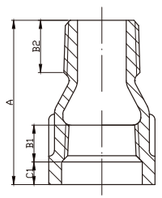




Size/ 规格	Inch	1/2	3/4	1	11/4	11/2
	mm	15	20	25	32	40
Dim./ 尺寸 (mm)	A	28	33	38	41	44
	B	11	13	15	17	18
	C	7	8	9	10	10
Size/ 规格	Inch	2	3	4		
	mm	50	80	100		
Dim./ 尺寸 (mm)	A	49	59	70		
	B	20	25.5	28.5		
	C	11	13	14		

529A Long Extension Piece





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

Malleable Iron Plain End Fittings

BS Standard

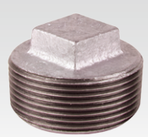

90
Elbow, 90°


130
Tee


130R
Reducing Tee


220
Socket


280
Hexagon Nipple

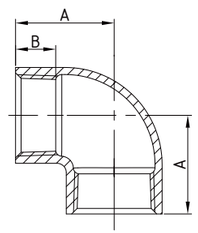

291
Plug


291LM
Plug


330
Flat Seat Union

90 Elbow, 90°

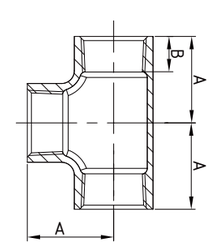




Size/ 规格	Inch	1/2	3/4	1		
	mm	15	20	25		
Dim./ 尺寸 (mm)	A	27	32	38		
	B	11	13	15		
Size/ 规格	Inch					
	mm					
Dim./ 尺寸 (mm)	A					
	B					

130 Tee

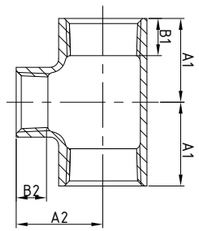




Size/ 规格	Inch	1/2	3/4	1		
	mm	15	20	25		
Dim./ 尺寸 (mm)	A	27	32	38		
	B	11	13	15		
Size/ 规格	Inch					
	mm					
Dim./ 尺寸 (mm)	A					
	B					

130R Reducing Tee

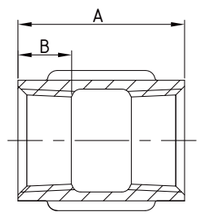




Size/ 规格	inch	3/4X1/2	1X3/4			
	mm	20X15	25X20			
Dim./ 尺寸 (mm)	A1	29.5	31.5			
	B1	13	15			
	A2	30.5	33			
	B2	11	13			

220 Socket

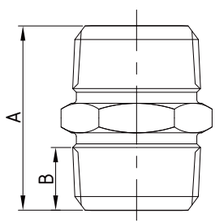




Size/ 规格	Inch	1/2	3/4	1	11/2	
	mm	15	20	25	40	
Dim./ 尺寸 (mm)	A	34	37	40	44	
	B	11	13	15	18	
Size/ 规格	Inch					
	mm					
Dim./ 尺寸 (mm)	A					
	B					

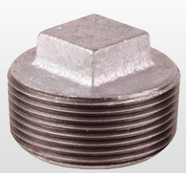
280 Hexagon Nipple

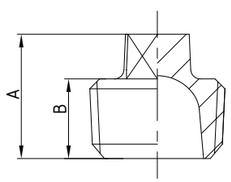




Size/ 规格	Inch	3/4	1			
	mm	20	25			
Dim./ 尺寸 (mm)	A	44	50			
	B	15	18			
Size/ 规格	Inch					
	mm					
Dim./ 尺寸 (mm)	A					
	B					

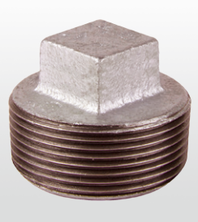
291 Plug

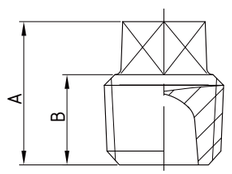




Size/ 规格	Inch	1/2	3/4	1		
	mm	15	20	25		
Dim./ 尺寸 (mm)	A	19.5	21	24		
	B	12.5	14	16.5		
Size/ 规格	Inch					
	mm					
Dim./ 尺寸 (mm)	A					
	B					

291LM Plug

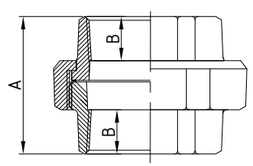




Size/ 规格	Inch	1/2				
	mm	15				
Dim./ 尺寸 (mm)	A	25				
	B	15				
Size/ 规格	Inch					
	mm					
Dim./ 尺寸 (mm)	A					
	B					

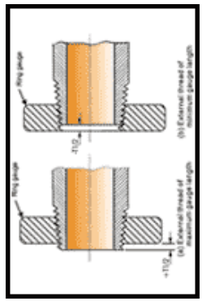
330 Flat Seat Union



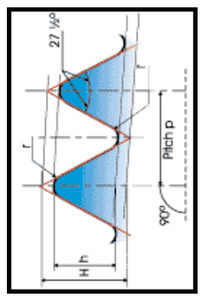


Size/ 规格	Inch	3/4	1			
	mm	20	25			
Dim./ 尺寸 (mm)	A	43	45.5			
	B	13	15			
Size/ 规格	Inch					
	mm					
Dim./ 尺寸 (mm)	A					
	B					

Basic Dimension for British and Din Standard Pipe Threads



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



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

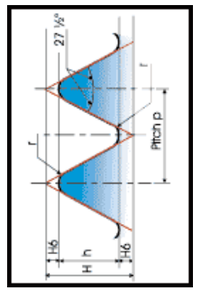


Fig 1 - Parallel thread
H = 0.960491 p
h = 0.640327 p
r = 0.137329 p

International Standard ISO7/1, Pipe Threads Dimensions — Dimensions in millimeters

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 (external thread)		Tolerance on position of gauge		Length of useful external thread not less than		
				Major (gauge diameter) d	Pitch d2	Minor d1	Nominal	Tolerance ±T1/2		Maximum	Minimum	Tolerance ±T2/2		For Nominal gauge length	For maximum gauge length	For minimum gauge length
								0.9	Turns of threads			1.1	Turns of threads			
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	12.301	11.445	6	1.3	1	7.3	4.7	1.7	1 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 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 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 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 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 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 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 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

Technical Standard For Malleable Steel Pipe Fitting

1) Product standards

BS EN 10242:1995, DIN EN 10242:1995

ASME B16.3-2016, ASME B16.14-2013, ASME B16.39-2014

2) Material

BS EN 1562, DIN EN 1562, EN-GJMB-350-10

ASTM A197/A197M-2015, ASTM A47/A47M-2014

3) Thread

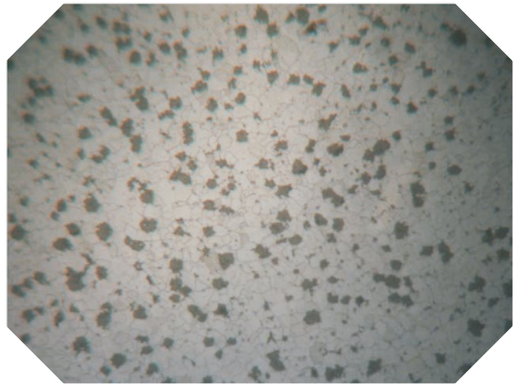
ISO7-1:1994 (BS/DIN)

ANSI/ASME B1.20.1 (NPT)

4) Chemical and Mechanical Properties

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

HARDNESS: <150HB



5) Dimensions

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

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

6) Pressure-Temperature Ratings

		Class 300, psig		
		Size	Size	Size
Temperature,℃	Class 150, psig	1/4–1	11/4–2	21/2–3
-29 to 66	300	2000	1500	1000
100	265	1785	1350	910
125	225	1575	1200	825
150	185	1360	1050	735
175	150 Note(1)	1150	900	650
200	20 to 150	935	750	580
225	20 to 150	725	600	475
250	20 to 150	510	450	585
275	20 to 150	300	300	300

7) Tolerances

BS&DIN

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

American

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