

Malleable Iron Pipe Fittings
American Standard Class 150

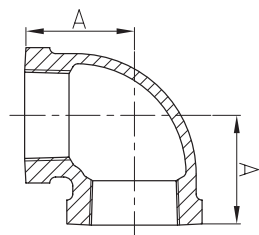
Material: ASTM A197/A197M
Dimensions: ASME B16.3, B16.14
Union Dimensions: B16.39
Threads: ASME B1.20.1
Size Available: 1/8"- 8"

 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

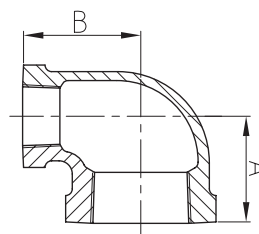
90° Elbow



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

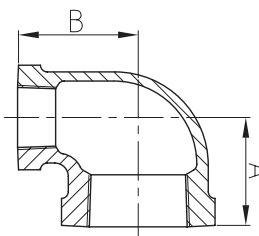
90° Reducing Elbow



Size	Inch	4X11/4	4X11/2	4X2	4X21/2	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

90R

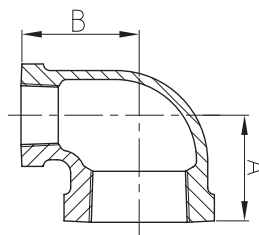
90° Reducing Elbow



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	11/4X3/8	11/4X1/2	11/4X3/4	11/4X1	11/2X1/2
	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

90R

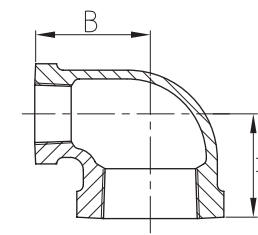
90° Reducing Elbow



Size	Inch	11/2X3/4	11/2X1	11/2X11/4	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	2X11/4	2X11/2	21/2X3/4	21/2X1
	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

90R

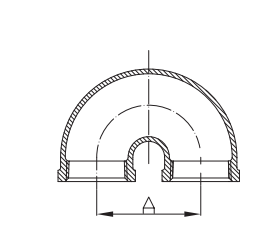
90° Reducing Elbow



Size	Inch	21/2X11/4	21/2X11/2	21/2X2	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	3X11/4	3X11/2	3X2	3X21/2	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

90U

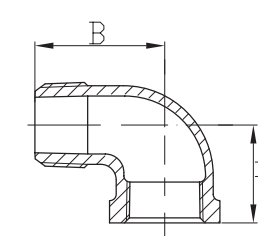
180° Return Elbow



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

92

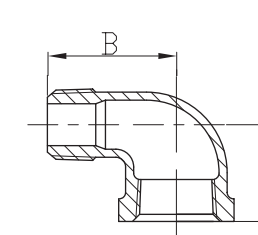
90° Street Elbow



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/2
	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	62.0
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	

92R

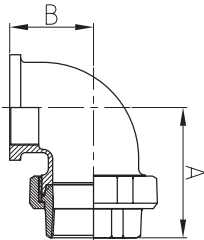
90° Reducing Street Elbow



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

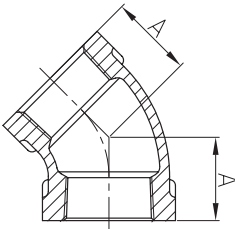
Union Elbow



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

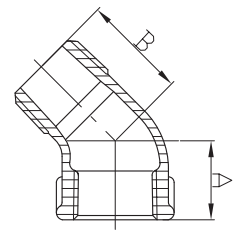
45° Elbow



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

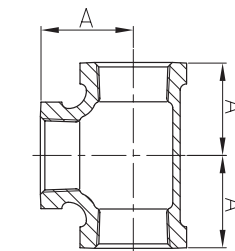
45° Street Elbow



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

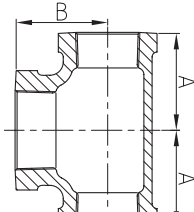
Tee



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

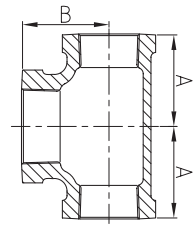
Bull Head Tee



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

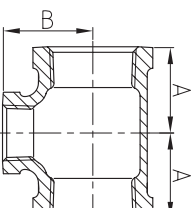
Bull Head Tee



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

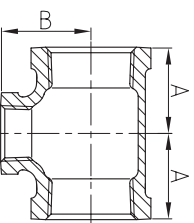
Reducing Tee



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

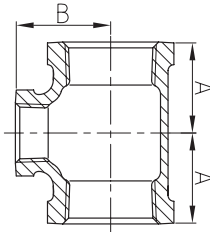
Reducing Tee



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

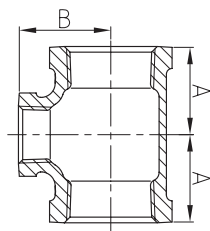
Reducing Tee



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

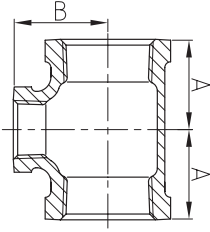
Reducing Tee



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

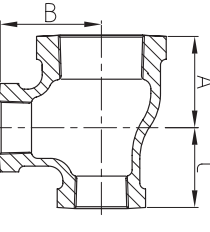
Reducing Tee



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

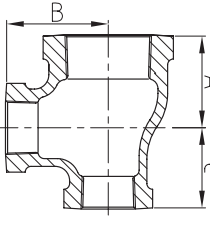
Reducing Tee



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

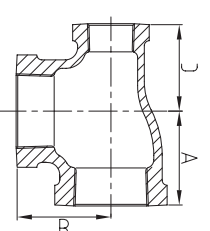
Reducing Tee



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

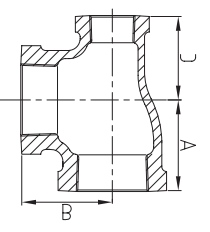
Reducing Tee



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

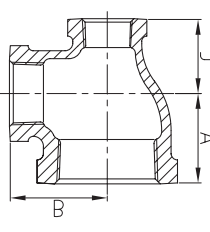
Reducing Tee



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

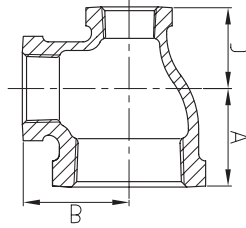
Reducing Tee



Size	Inch	4X3X2	3/4X1/2X1	1X1/2X3/4	11/4X1/2X3/4	11/4X1/2X11/4
	mm	100X80X50	20X15X25	25X15X20	32X15X34	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

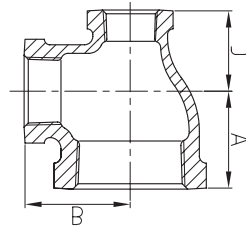
Reducing Tee



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

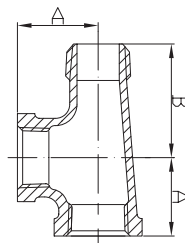
Reducing Tee



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

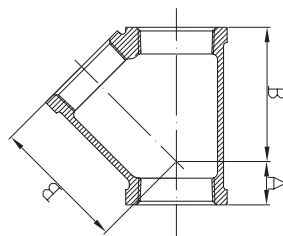
Service Tee



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

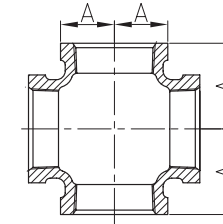
45° Lateral Y Branch



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

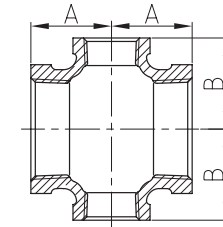
Cross



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

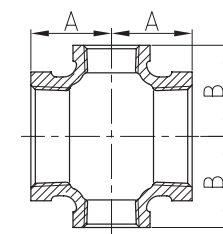
Reducing Cross



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
	C						
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

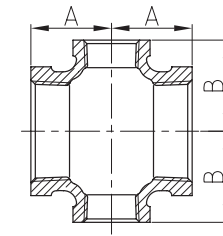
Reducing Cross



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
	C					
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

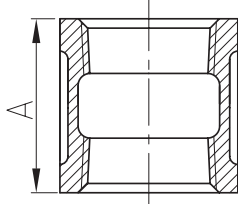
Reducing Cross



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
	C					
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

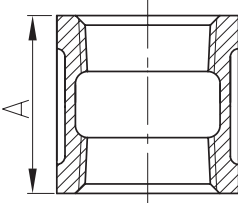
Coupling



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

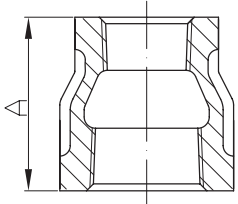
Left & Right Coupling



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

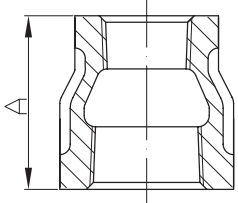
Reducing Coupling



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

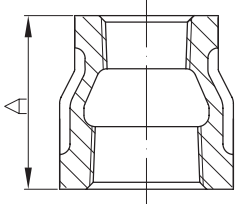
Reducing Coupling



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

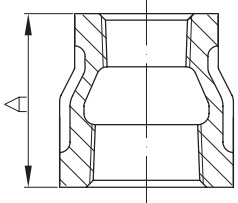
Reducing Coupling



Size	Inch	1X3/4	1 1/4X1/4	1 1/4X3/8	1 1/4X1/2	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

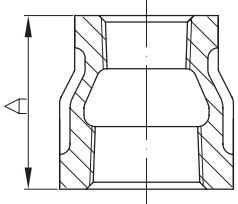
Reducing Coupling



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

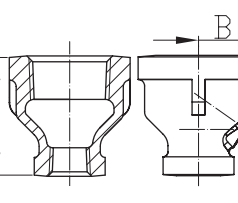
Reducing Coupling



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

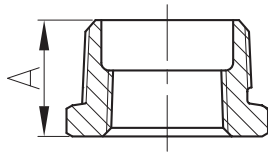
Tapped Reducing Coupling



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

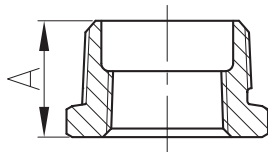
Outside Hex Bushing



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

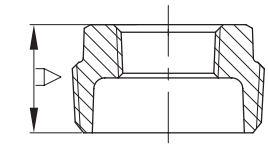
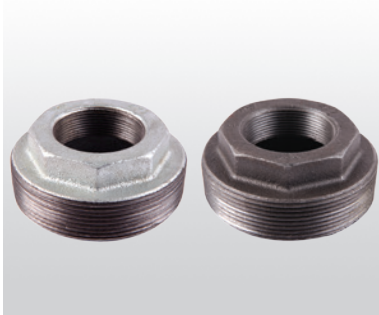
Outside Hex Bushing



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

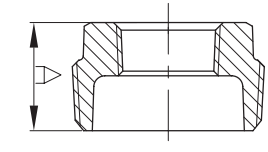
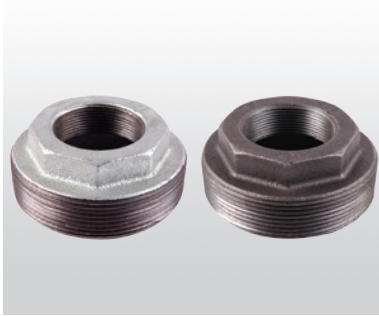
Inside Hex Bushing



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

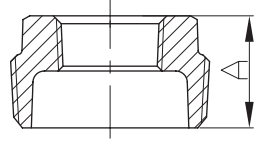
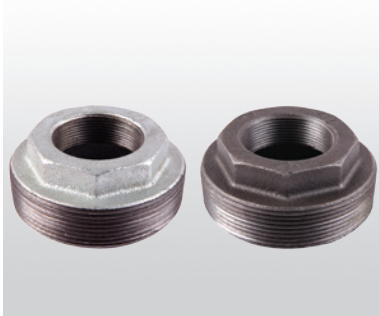
Inside Hex Bushing



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

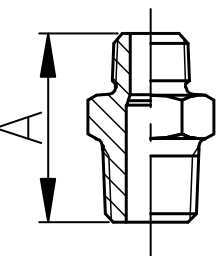
Inside Hex Bushing



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

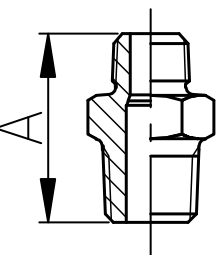
Reducing Hexagon Nipple



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

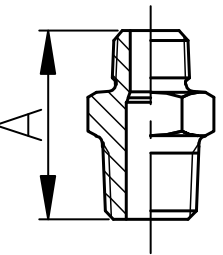
Reducing Hexagon Nipple



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

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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	