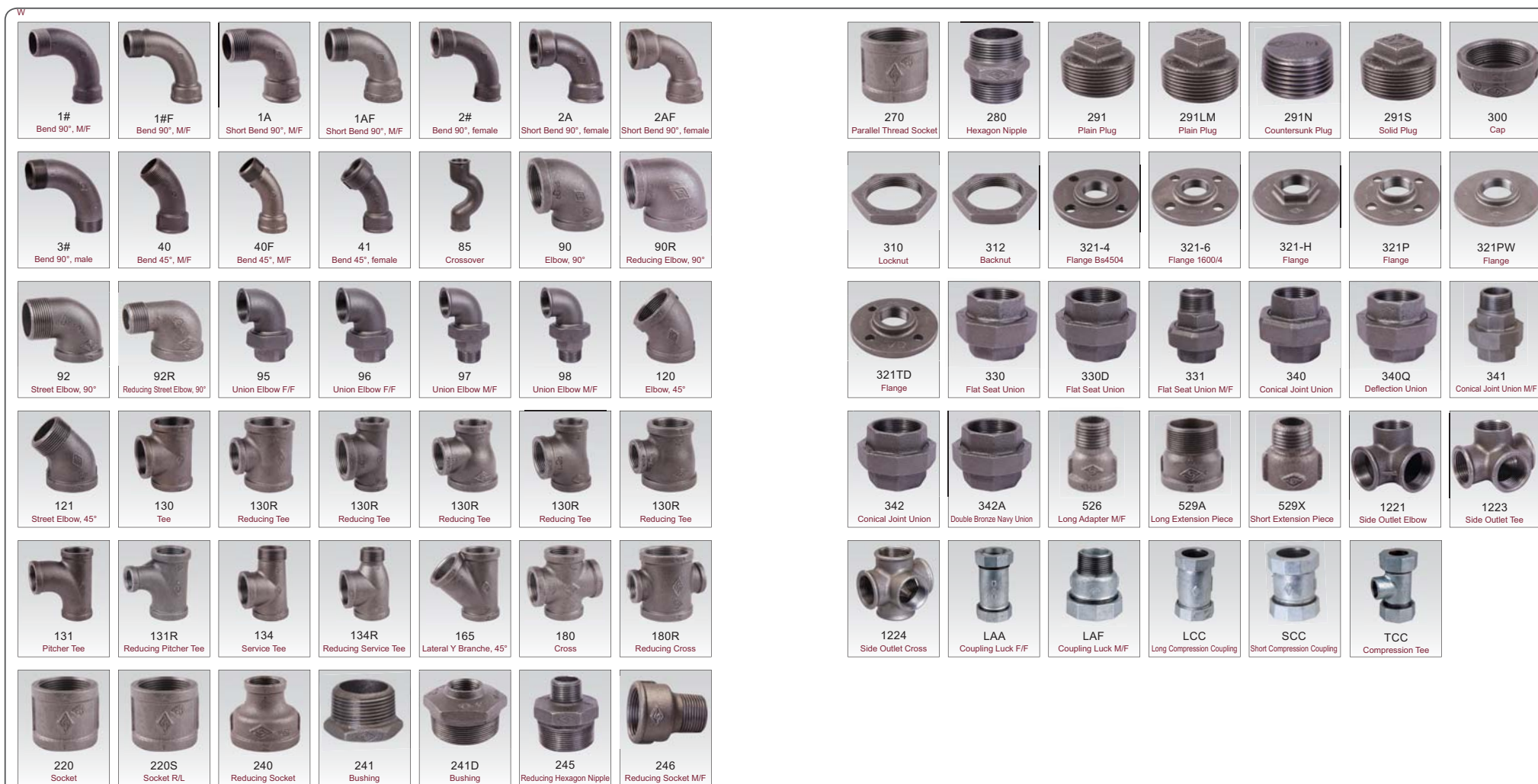


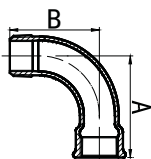
Malleable Iron Pipe Fittings BS Standard

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



1#

Bend 90°, M/F

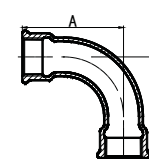


Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	35	40	48	55	69	85	105
	B	32	36	42	48	60	75	95

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

2#

Bend 90°, female

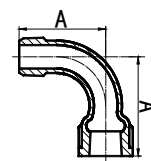


Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	40	48	55	69	85	105

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

1#F

Bend 90°, M/F

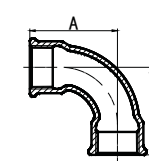


Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	52	65	82	100	115	140

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

2A

Short bend 90°, female

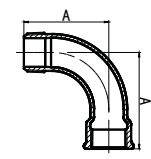


Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	45	50	63	76	85	102

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

1A

Short Bend 90°, M/F

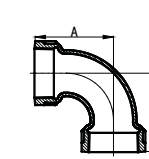


Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	30	36	45	50	63	76

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

2AF

Short bend 90°, female

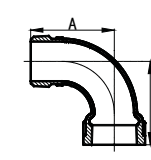


Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	30	36	45	50	63	76

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

1AF

Short Bend 90°, M/F

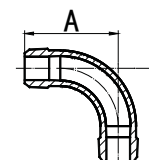


Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	30	36	45	50	63	76

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

3#

Bend 90°, male

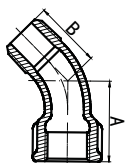


Size	Inch	3/8	1/2	3/4	1	1 1/4	1 1/2
	mm	10	15	20	25	32	40
Dim. (mm)	A	42	48	60	75	95	105

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

40

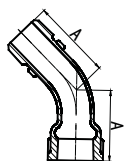
Bend 45°, M/F



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

40F

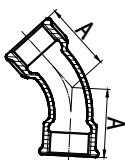
Bend 45°, M/F



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

41

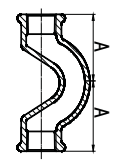
Bend 45°, female



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

85

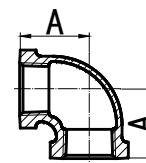
Crossover



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	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

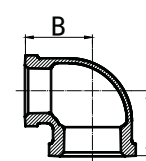
Elbow, 90°



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

90R

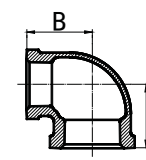
Reducing Elbow, 90°



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

90R

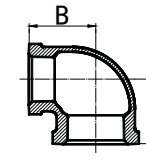
Reducing Elbow, 90°



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

90R

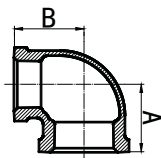
Reducing Elbow, 90°



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

90R

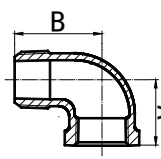
Reducing Elbow, 90°



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

92

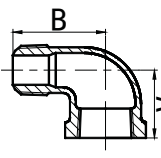
Street Elbow, 90°



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

92R

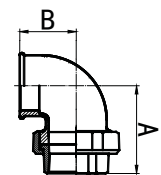
Reducing Street Elbow, 90°



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

95

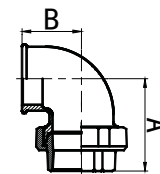
Union Elbow F/F



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

96

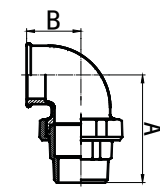
Union Elbow F/F



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

97

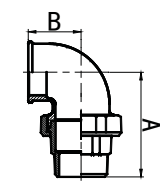
Union Elbow M/F



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

98

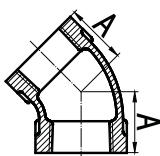
Union Elbow M/F



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

120

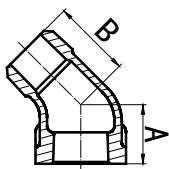
Elbow, 45°



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	16	18.5	20	22	25	28	33
	B	28	33	38	45	50	58	66
Size	Inch	1 1/2	2	2 1/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	50	58	69	78	96	115	135
	B	65	74	88	98	118	138	158

121

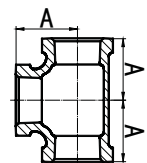
Street Elbow, 45°



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

130

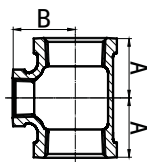
Tee



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

130R

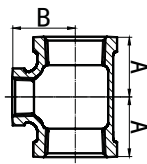
Reducing Tee



Size	Inch	4X1/2	4X3/4	4X1	4X1 1/4	4X1 1/2
	mm	100X15	100X20	100X25	100X32	100X40
Dim. (mm)	A	50	53	56	60	61
	B	79	79	81	84	84
Size	Inch	1/2X1/8	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

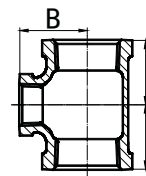
Reducing Tee



Size	Inch	4X2	4X2 1/2	4X3	3/8X1 1/4	6X4
	mm	100X50	100X65	100X80	10X8	150X100
Dim. (mm)	A	70	84	82	22	105
	B	86	92	90	22.5	125.5
Size	Inch	3/4X1/2	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

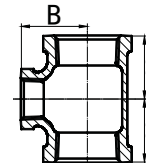
Reducing Tee



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

130R

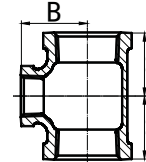
Reducing Tee



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

130R

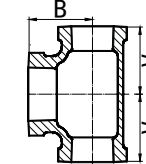
Reducing Tee



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

130R

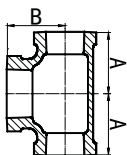
Reducing Tee



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

130R

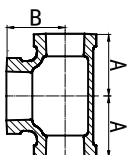
Reducing Tee



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

130R

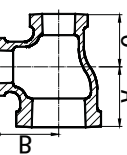
Reducing Tee



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

130R

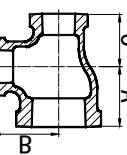
Reducing Tee



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

130R

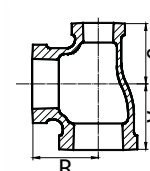
Reducing Tee



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

130R

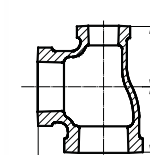
Reducing Tee



Size	Inch	3/4X1/2X3/4	1X1X1	1X1X2	1 1/4X1 1/4X1 1/4	1 1/2X1 1/2X1 1/2
mm		20X15X20	25X20X25	25X15X25	32X25X32	40X15X40
Dim. (mm)	A	33	38	38	45	50
	B	33	38	38	45	50
	C	31	30	34	42	42
Size	Inch	1 1/2X3/4X1 1/2	1X3/4X1	1 1/4X1/2X1 1/4	1 1/4X3/4X1 1/4	1 1/2X1 1/2X1 1/2
mm		40X25X40	25X20X25	32X15X32	32X20X32	40X25X40
Dim. (mm)	A	50	38	45	45	50
	B	50	38	45	45	50
	C	44	36	38	41	46

130R

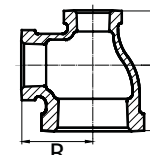
Reducing Tee



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

130R

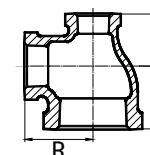
Reducing Tee



Size	Inch	4X3X2	3/4X1/2X1	1X1/2X3/4	1 1/4X3/4X1
mm		100X80X50	20X15X25	25X15X20	32X20X25
Dim. (mm)	A	67	38	35	40
	B	63.5	34	36	42
	C	60	33	31	36
Size	Inch	1 1/4X1X1/2	1 1/4X1X3/4	1 1/4X1/2X3/4	1 1/4X1/2X1 1/4
mm		32X25X15	32X25X20	32X15X20	32X15X25
Dim. (mm)	A	34	36	36	39
	B	38	41	38	41.5
	C	32	35	29	34

130R

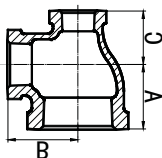
Reducing Tee



Size	Inch	1 1/4X3/4X1/2	1 1/2X1/2X1	1 1/2X3/4X1	1 1/2X3/4X1 1/4
mm		32X20X15	40X15X25	40X20X25	40X20X32
Dim. (mm)	A	40	44	44	46
	B	42.5	46	46	48
	C	37	34	35	41
Size	Inch	1 1/2X1X1/2	1 1/2X3/4X1 1/4	1 1/2X1 1/4X1/2	2X1X1 1/2
mm		40X25X15	40X25X32	40X32X15	50X25X40
Dim. (mm)	A	37	45	36	51
	B	41	47	42	55
	C	32	41.5	34	45.5

130R

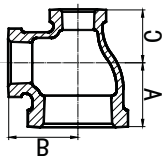
Reducing Tee



Size	Inch	2X11/4X1	2X11/4X1/2	11/2X11/4X3/4	11/2X11/4X1
mm		50X32X25	50X32X40	40X32X20	40X32X25
Dim. (mm)	A	40	52	38	42
	B	51	55	44	46
	C	44	48	36	40
Size	Inch	11/2X11/4X2	2X11/2X1/2	2X11/2X3/4	2X11/2X1
mm		40X32X50	50X40X15	50X40X20	50X40X25
Dim. (mm)	A	55	38	40	44
	B	51.5	48	50	52
	C	53.5	36	39	42

130R

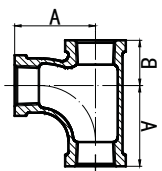
Reducing Tee



Size	Inch	2X11/2X11/4	21/2X2X1/2	21/2X2X1
mm		50X40X32	65X50X15	65X50X25
Dim. (mm)	A	48	57	53
	B	54	64	60
	C	46	52	53
Size	Inch	21/2X2X11/4	3X21/2X2	
mm		65X50X32	80X65X50	
Dim. (mm)	A	57	67	
	B	64	74.5	
	C	52	64	

131

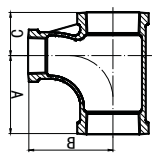
Pitcher Tee



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

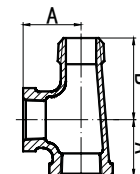
Reducing Pitcher Tee



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

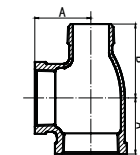
Service Tee



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

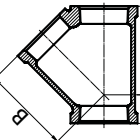
Reducing Service Tee



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						

165

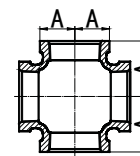
Lateral Y Branche, 45°



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

180

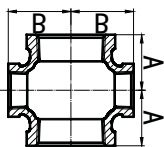
Cross



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

180R

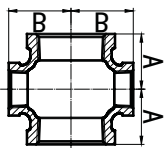
Reducing Cross



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

180R

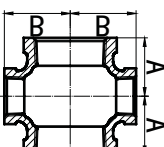
Reducing Cross



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

180R

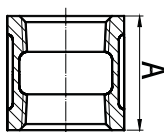
Reducing Cross



Size	Inch	1 1/4X3/4	1 1/4X1	2 1/2X2	3X3/4	3X1	2 1/2X1 1/4
	mm	32X20	32X25	65X50	80X20	80X25	65X32
Dim. (mm)	A	36	40	61	45	51	52
	B	41	42	66	65	67	62
Size	Inch	2 1/2X1 1/2	3X1 1/4	3X1 1/2	3X2	3X2 1/2	
	mm	65X40	80X32	80X40	80X50	80X65	
Dim. (mm)	A	55	55	58	64	72	
	B	63	70	71	73	76	

220

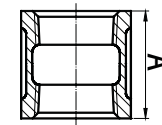
Socket



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

220S

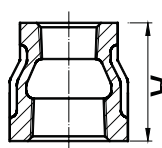
Socket R/L



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

240

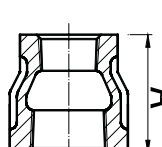
Reducing Socket



Size	Inch	4X1	4X1 1/4	4X1 1/2	4X2	4X2 1/2
	mm	100X25	100X32	100X40	100X50	100X65
Dim. (mm)	A	94	94	94	94	94
Size	Inch	1 1/2X1 1/2	1 1/2X3/4	1 1/2X1	1 1/2X1 1/4	2X3/4
	mm	40X15	40X20	40X25	40X32	50X20
Dim. (mm)	A	36	36	36	39	39

240

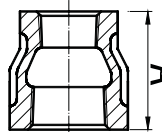
Reducing Socket



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

240

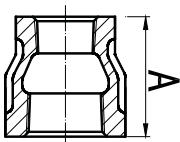
Reducing Socket



Size	Inch	6X2	6X3	1 1/4X3/8	1 1/4X1/2	1 1/4X3/4
	mm	150X50	150X80	32X10	32X15	32X20
Dim. (mm)	A	105	105	50	50	50
Size	Inch	1X3/4	1 1/4X1/4	2X1	2X1 1/4	2X1 1/2
	mm	25X20	32X8	50X25	50X32	50X40
Dim. (mm)	A	45	50	65	65	74

240

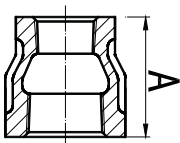
Reducing Socket



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	11/2X11/4
	mm	32X8	50X25	50X32	50X40	32X25	40X8
Dim. (mm)	A	50	65	65	74	50	55

240

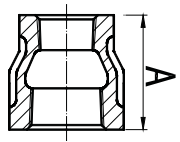
Reducing Socket



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

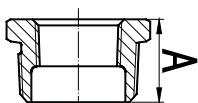
Reducing Socket



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	14X1/8			
	mm	80X50	80X65	8X6			
Dim. (mm)	A	80	80	27			

241

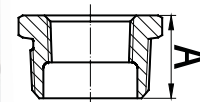
Bushing



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

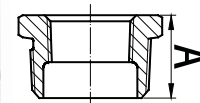
Bushing



Size	Inch	3/8X1/8	3/8X1/4	5X4	6X5	6X21/2
	mm	10X6	10X8	125X100	150X125	150X85
Dim. (mm)	A	20	20	47	69	69
Size	Inch	1X1/4	1X3/8	1X1/2	1X3/4	11/4X3/8
	mm	25X8	25X10	25X15	25X20	32X10
Dim. (mm)	A	29	29	29	29	31

241

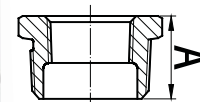
Bushing



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

241

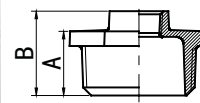
Bushing



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

241D

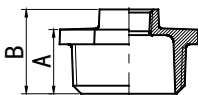
Bushing



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

241D

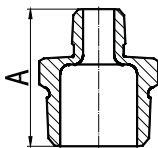
Bushing



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

245

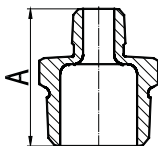
Reducing Hexagon Nipple



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

245

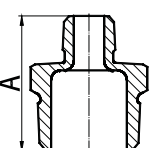
Reducing Hexagon Nipple



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

245

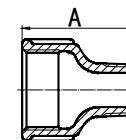
Reducing Hexagon Nipple



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

246

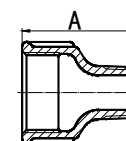
Reducing Socket M/F



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

246

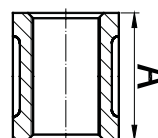
Reducing Socket M/F



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

270

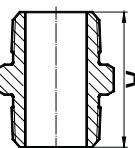
Parallel Thread Socket



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

280

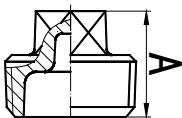
Hexagon Nipple



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

291

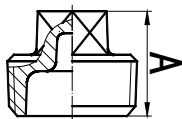
Plain Plug



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A Min	11	14	15	18	20	23	29
Size	Inch	1 1/2	2	2 1/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A Min	30	36	39	44	58	71.5	

291LM

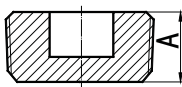
Plain Plug



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

291N

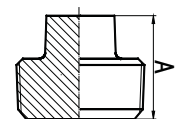
Countersunk Plug



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

291S

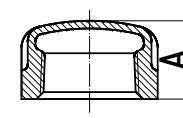
Solid Plug



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

300

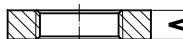
Cap



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

310

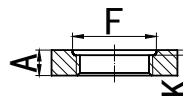
Locknut



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

312

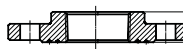
Backnut



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

321-4

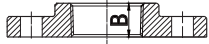
Flange Bs4504



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

321-6

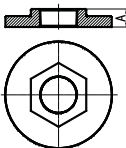
Flange 1600/4



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

321-H

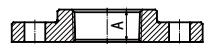
Flange



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

321P

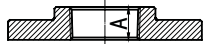
Flange



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

321PW

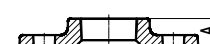
Flange



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

321TD

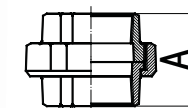
Flange



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

330

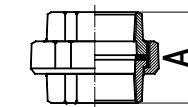
Flat Seat Union



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

330D

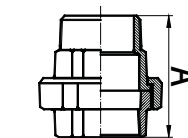
Flat Seat Union



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

331

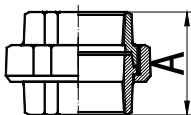
Flat Seat Union M/F



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

340

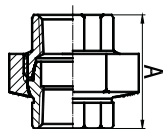
Conical Joint Union



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

340Q

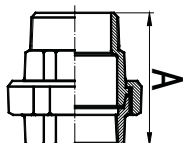
Deflection Union



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

341

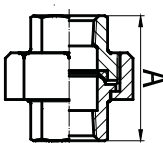
Conical Joint Union M/F



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

342

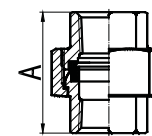
Conical Joint Union



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A Min	32	36.5	41	43.5	49.5	52.5	57.5
Size	Inch	1 1/2	2	2 1/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A Min	61	70	82	89	98	76.2	

342A

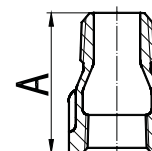
Double Bronze Navy Union



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

526

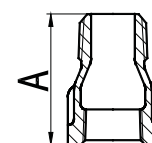
Long Adapter M/F



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

529A

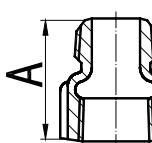
Long Extension Piece



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

529X

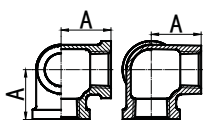
Short Extension Piece



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

1221

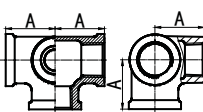
Side Outlet Elbow



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

1223

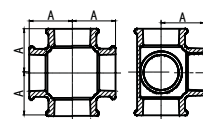
Side Outlet Tee



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

1224

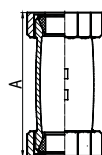
Side Outlet Cross



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

LAA

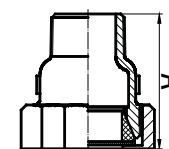
Coupling Luck F/F



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

LAF

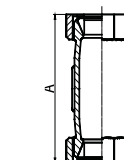
Coupling Luck M/F



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

LCC

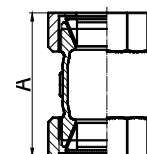
Long Compression Coupling



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

SCC

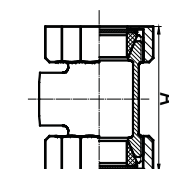
Short Compression Coupling



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

TCC

Compression Tee



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

(a) Specimen of length $2l$

(b) Specimen of length $2l$

(c) Specimen of length $2l$

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

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

International Standard ISO 7/1, Pipe Threads Dimensions

Designation Number of threads in 25.4 mm	Pitch P	Height of thread h	Diameters at gauge plane					Gauge Length (external thread)					Tolerance on position of gauge				Dimensions in millimeters		
			Major (gauge diameter) d	Pitch d2	Minor d1	Nominal	Tolerance ±T/2		Maximum	Minimum	12	13	14	15	16	17			
							Turns of threads												
							Turns of threads												
1/8	20	0.697	0.541	0.578	0.497	8.566	4	0.9	1	1.04	4.8	3.1	1.1	1.14	6.6	7.1	8.6		
1/4	19	1.337	0.856	13.157	12.301	11.845	6	1.3	1.3	7.3	4.7	1.7	1.14	9.2	11.1	8.4	8.8		
3/8	19	1.337	0.856	16.662	15.806	14.95	6.2	1.8	1.7	7.7	5.1	1.7	1.14	10.1	11.4	11.4	8.8		
1/2	14	1.814	1.162	20.955	19.993	18.631	8.4	1.8	1.8	10	6.4	2.3	1.14	13.2	15	15	11.4		
3/4	14	1.814	1.162	26.441	25.279	24.117	9.5	1.8	1.8	10	7.7	2.3	1.14	14.5	16.3	12.7	12.7		
1	11	2.309	1.479	31.289	30.291	29.14	10.4	2.3	2.3	12.7	8.1	2.9	1.14	16.8	19.1	14.5	14.5		
1 1/8	11	2.309	1.479	37.893	36.895	35.733	11.5	2.3	2.3	15.2	9.2	2.9	1.14	18.1	21.4	16.8	16.8		
1 1/2	11	2.309	1.479	47.803	46.824	44.845	12.7	2.3	2.3	15.2	10.4	2.9	1.14	19.1	21.4	16.8	16.8		
2	11	2.309	1.479	59.614	58.135	56.656	15.9	2.3	2.3	18.2	13.6	2.9	1.14	21	23.7	21.1	21.1		
2 1/2	11	2.309	1.479	73.184	73.905	72.126	17.5	3.5	1.12	21	14	3.5	1.12	26.7	30.2	23.2	23.2		
3	11	2.309	1.479	87.884	86.405	84.226	20.6	3.5	1.12	24.1	17.1	3.5	1.12	29.8	33.3	26.3	26.3		
4	11	2.309	1.479	110.821	109.342	107.163	23.2	3.5	1.12	28.9	20.9	3.5	1.12	32.8	35.8	29.3	29.3		
5	11	2.309	1.479	136.811	135.332	133.153	26.3	3.5	1.12	33.1	23.9	3.5	1.12	35.8	38.8	32.3	32.3		
6	11	2.309	1.479	163.81	162.331	160.152	29.6	3.5	1.12	32.1	25.1	3.5	1.12	40.1	43.6	36.6	36.6		

Note: This information is selected from the International Standard ISO 7/1:2000: Pipe threads where pressure - tight joints, Table 1