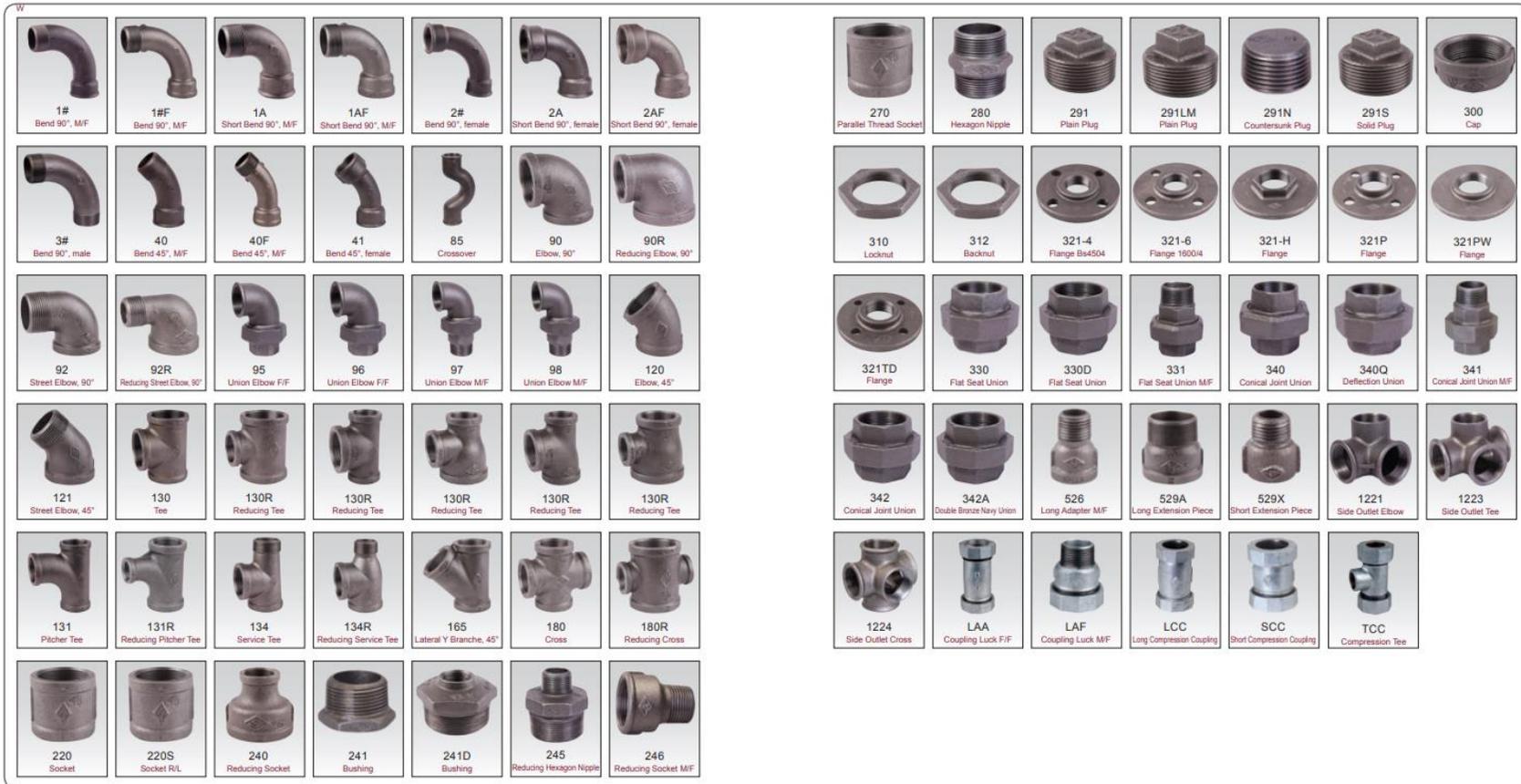


FITTINGS FM APPROVED

Malleable Iron Pipe Fittings
BS Standard

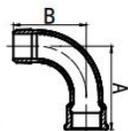
Material: BS EN 1562
Dimensions: BS EN 10242
Threads: ISO 7-1
Size Available: 1/8" - 6"



FITTINGS FM APPROVED

1#

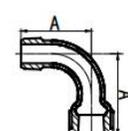
Bend 90°, M/F



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	

1#F

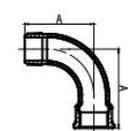
Bend 90°, M/F



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			

1A

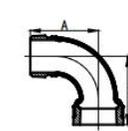
Short Bend 90°, M/F



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	

1AF

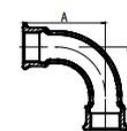
Short Bend 90°, M/F



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			

2#

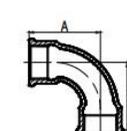
Bend 90°, female



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

2A

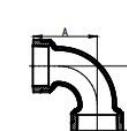
Short bend 90°, female



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

2AF

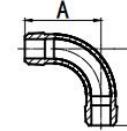
Short bend 90°, female



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		

3#

Bend 90°, male

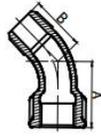


Size	Inch	3/8	1/2	3/4	1	1 1/4	1 1/2
	mm	10	15	20	25	32	40
Dim. (mm)	A	42	48	60	75	95	105
Size	Inch	2	2 1/2	3	4		
	mm	50	65	80	100		
Dim. (mm)	A	130	165	190	245		



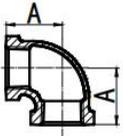
FITTINGS FM APPROVED

40 Bend 45°, M/F

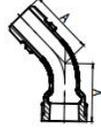
Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	26	30	36	43	51	64
	B	21	24	30	36	42	54
Size	Inch	1 1/2	2	2 1/2	3	4	6
	mm	40	50	65	80	100	150
Dim. (mm)	A	68	81	99	113	142	197
	B	58	70	86	100	126	176

90 Elbow, 90°

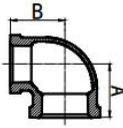
Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	19	21	25	28	33	38	45
	B	11	12	15	17	20	23	28
Size	Inch	1 1/2	2	2 1/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	50	58	69	78	96	115	131
	B	40	45	55	60	70	80	90

40F Bend 45°, M/F

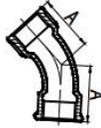
Size	Inch	3/4	1	1 1/4	1 1/2	2	2 1/2
	mm	20	25	32	40	50	65
Dim. (mm)	A	45	55	68	70	85	100
	B	35	40	45	50	60	70
Size	Inch	3	4				
	mm	80	100				
Dim. (mm)	A	115	145				
	B	85	105				

90R Reducing Elbow, 90°

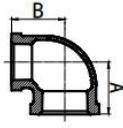
Size	Inch	4X1 1/4	4X1 1/2	4X2	4X2 1/2	4X3
	mm	100X120	100X140	100X150	100X165	100X180
Dim. (mm)	A	60	62	68	77	82
	B	85	85	86	89	90
Size	Inch	3/4X1/2	1X1/4	1X3/8	1X1/2	1X3/4
	mm	20X15	25X8	25X10	25X15	25X20
Dim. (mm)	A	30	27	30	32	35
	B	31	31	32	34	36

41 Bend 45°, female

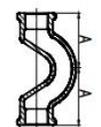
Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	26	30	36	43	51	64
	B	21	24	30	36	42	54
Size	Inch	1 1/2	2	2 1/2	3	4	6
	mm	40	50	65	80	100	150
Dim. (mm)	A	68	81	99	113	142	197
	B	58	70	86	100	126	176

90R Reducing Elbow, 90°

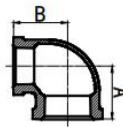
Size	Inch	3/8X1/8	3/8X1/4	6X4	10X14	12X18
	mm	10X8	10X8	150X100	15X8	15X10
Dim. (mm)	A	20.5	23	102	24	26
	B	21.5	23	125	24	26
Size	Inch	1 1/4X3/8	1 1/4X1/2	1 1/4X3/4	1 1/4X1	1 1/4X1 1/2
	mm	32X10	32X15	32X20	32X25	40X15
Dim. (mm)	A	32	32	36	40	34
	B	36.5	37	41	42	41

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
	B	35	40	50	60	70	85
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

90R Reducing Elbow, 90°

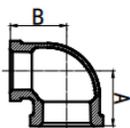
Size	Inch	3/4X1/4	3/4X3/8	1 1/2X1 1/4	2X1 1/2	2X3/4
	mm	20X8	20X10	40X32	50X15	50X20
Dim. (mm)	A	26	28	46	35	40
	B	27	28	48	47	48
Size	Inch	1 1/2X3/4	1 1/2X1	3X1	3X1 1/4	3X1 1/2
	mm	40X20	40X25	80X25	80X32	80X40
Dim. (mm)	A	37	42	50	53.5	56
	B	42	46	68	68	69



FITTINGS FM APPROVED

90R

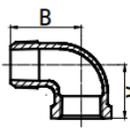
Reducing Elbow, 90°



Size	Inch	2X1	2X1/4	2X1/2	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	21/2X1/4	21/2X1/2	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

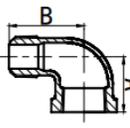
Street Elbow, 90°



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	1/2	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

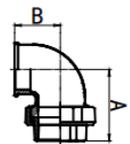
Reducing Street Elbow, 90°



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

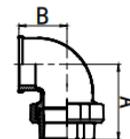
Union Elbow F/F



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	56	62	72	82	90	100
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

96

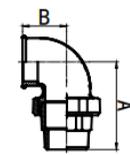
Union Elbow F/F



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

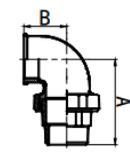
Union Elbow M/F



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

98

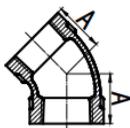
Union Elbow M/F



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°

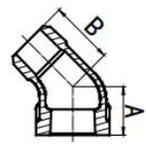


Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	16	18.5	20	22	25	28	33
	B	56	62	72	82	90	100	110
Size	Inch	1 1/2	2	2 1/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	50	58	69	78	96	115	135
	B	65	74	88	98	118	138	158



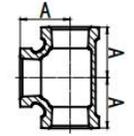
FITTINGS FM APPROVED

121 Street Elbow, 45°

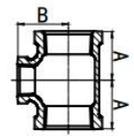
Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	16	18.5	20	22	25	28
	B	21	24	25	28	32	37
Size	Inch	1/14	1/12	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	33	36	43	49.5	55	66
	B	43	46	55	65	76	94

130 Tee

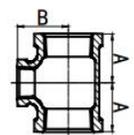
Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	19	21	25	28	33	38	45
	B	21	24	25	28	33	38	45
Size	Inch	1/12	2	2 1/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	50	58	66	78	96	115	131
	B	50	58	66	78	96	115	131

130R Reducing Tee

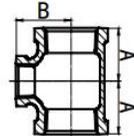
Size	Inch	4X1/2	4X3/4	4X1	4X1 1/4	4X1 1/2
	mm	100X15	100X20	100X25	100X32	100X40
Dim. (mm)	A	50	53	56	60	61
	B	79	79	81	84	84
Size	Inch	1/2X1/8	1/2X1/4	1/2X3/8	3/4X1/4	3/4X3/8
	mm	15X8	15X8	15X10	20X8	20X10
Dim. (mm)	A	22	24	26	26	28
	B	23	24	26	27	28

130R Reducing Tee

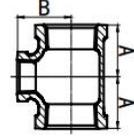
Size	Inch	4X2	4X2 1/2	4X3	3 1/2X1 1/4	6X4
	mm	100X50	100X65	100X80	10X8	150X100
Dim. (mm)	A	70	84	82	22	105
	B	86	92	90	22.5	125.5
Size	Inch	3/4X1/2	1X1/4	1X3/8	1X1/2	1X3/4
	mm	20X15	25X8	25X10	25X15	25X20
Dim. (mm)	A	30	28	30	32	35
	B	31	31	32	34	36

130R Reducing Tee

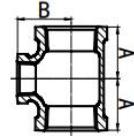
Size	Inch	8X2	8X3	11/4X3/4	11/4X1	11/2X3/8
	mm	150X50	150X60	32X20	32X25	40X10
Dim. (mm)	A	75	82.5	36	40	34
	B	115	120.5	41	42	39
Size	Inch	11/4X3/8	11/4X1/2	2X1 1/2	2 1/2X1 1/2	2 1/2X3/4
	mm	32X10	32X15	50X40	65X15	65X20
Dim. (mm)	A	32	34	52	40	43
	B	36	38	55	56	57

130R Reducing Tee

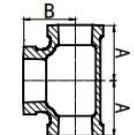
Size	Inch	1 1/2X1/2	1 1/2X3/4	1 1/2X1	1 1/2X1 1/4	2X3/8
	mm	40X15	40X20	40X25	40X32	50X10
Dim. (mm)	A	36	38	42	46	36
	B	42	44	46	48	46
Size	Inch	2 1/2X1	2 1/2X1 1/4	2 1/2X1 1/2	2 1/2X2	3X1 1/2
	mm	65X25	65X32	65X40	65X50	80X15
Dim. (mm)	A	47	52	55	61	42
	B	60	62	63	66	64

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	46
	B	48	50	52	54	73	66
Size	Inch	3X1	3X1 1/4	3X1 1/2	3X2 1/2	1 1/4X1 1/8	
	mm	80X25	80X32	80X40	80X50	80X15	
Dim. (mm)	A	51	55	58	72	18.5	
	B	67	70	71	76	19	

130R Reducing Tee

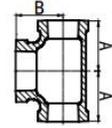



Size	Inch	1 1/2X1 1/2X3/4	1 1/2X1 1/2X1	3 1/4X3 1/4X1	3 1/4X3 1/4X1 1/4
	mm	15X15X20	15X15X25	20X20X25	20X20X32
Dim. (mm)	A	31	34	36	41
	B	30	32	35	36
Size	Inch	1X1X2	1X1X2 1/2	1 1/4X1 1/4X1 1/2	1 1/4X1 1/4X2
	mm	25X25X50	25X25X65	32X32X40	32X32X50
Dim. (mm)	A	51	60	48	54
	B	48.5	48	46	48



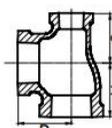
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130R Reducing Tee

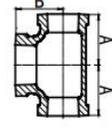
Size	Inch	1/2x1/2x3/4	1/2x1/2x1	3/4x3/4x1	3/4x3/4x1 1/4
	mm	15x15x20	15x15x25	20x20x25	20x20x32
Dim. (mm)	A	31	34	36	41
	B	30	32	35	36
Size	Inch	1x1x2	1x1x2 1/2	1 1/4x1 1/4x1 1/2	1 1/4x1 1/4x2
	mm	25x25x50	25x25x65	32x32x40	32x32x50
Dim. (mm)	A	51	60	48	54
	B	48.5	48	46	48

130R Reducing Tee

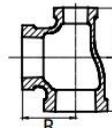
Size	Inch	3/4x1/2x3/4	1x1/4x1	1x1/2x1	1 1/4x1 1/4	1 1/2x1 1/2
	mm	20x15x20	25x8x25	25x15x25	32x20x32	40x15x40
Dim. (mm)	A	33	38	38	45	50
	B	33	38	38	45	50
	C	31	30	34	42	42
Size	Inch	1 1/2x3/4x1 1/2	1x3/4x1	1 1/4x1 1/2x1 1/4	1 1/4x3/4x1 1/4	1 1/2x1 1/2
	mm	40x20x40	25x20x25	32x20x32	32x20x32	40x25x40
Dim. (mm)	A	50	38	45	45	50
	B	50	38	45	45	50
	C	44	36	38	41	48

130R Reducing Tee

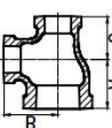
Size	Inch	1x1x1 1/4	1x1x1 1/2	2x2x2 1/2	2 1/2x2 1/2x3
	mm	25x25x32	25x25x40	50x50x65	65x65x80
Dim. (mm)	A	42	46	64	75
	B	40	42	58	72
Size	Inch	1 1/2x1 1/2x2	1 1/2x1 1/2x2 1/2	2 1/2x2 1/2x3	
	mm	40x40x50	40x40x65	65x65x100	
Dim. (mm)	A	55	65	90	
	B	52	55	78	

130R Reducing Tee

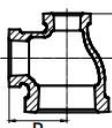
Size	Inch	1 1/2x1 1/4x1 1/2	2x1x2	2x3x2	2x1x2
	mm	40x32x40	50x15x50	50x20x50	50x25x50
Dim. (mm)	A	50	57	58	58
	B	50	57	58	58
	C	48	47.5	50	52
Size	Inch	2x1 1/4x2	2x1 1/2x2	2 1/2x1 1/2x2 1/2	2 1/2x2x2 1/2
	mm	50x32x50	50x40x50	65x40x65	65x50x65
Dim. (mm)	A	58	58	68.5	67
	B	58	58	68.5	67
	C	54	55	63.5	65

130R Reducing Tee

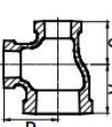
Size	Inch	3/4x1/2x1/2	1x1/2x1/2	1x3/4x3/4
	mm	20x15x15	25x15x15	25x20x20
Dim. (mm)	A	30	32	35
	B	31	34	36
	C	28	28	33
Size	Inch	1 1/2x3/4x3/4	1 1/2x1x1	1 1/2x1 1/4x1 1/4
	mm	40x20x20	40x25x25	40x32x32
Dim. (mm)	A	38	42	46
	B	43	46	48
	C	32	38	45

130R Reducing Tee

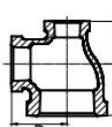
Size	Inch	4x3x2	3x4x2x1	1x1/2x3/4	1 1/4x3/4x1
	mm	100x80x50	20x15x25	25x15x20	32x20x25
Dim. (mm)	A	67	38	35	40
	B	83.5	34	36	42
	C	60	33	31	36
Size	Inch	1 1/4x1x1/2	1 1/4x1x3/4	1 1/4x1x3/4	1 1/4x1x2 1/4
	mm	32x25x15	32x25x20	32x15x20	32x15x25
Dim. (mm)	A	34	36	35	39
	B	38	41	38	41.5
	C	32	35	29	34

130R Reducing Tee

Size	Inch	1 1/4x1 1/2x1 1/2	1 1/4x3/4x3/4	1 1/4x1x1	2x1x1
	mm	32x15x15	32x20x20	32x25x25	50x25x25
Dim. (mm)	A	34	35	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

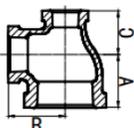



Size	Inch	1 1/4x3/4x1/2	1 1/2x2x1	1 1/2x3x1	1 1/2x3x1 1/4
	mm	32x20x15	40x15x25	40x20x25	40x20x32
Dim. (mm)	A	40	44	44	46
	B	42.5	46	46	48
	C	37	34	35	41
Size	Inch	1 1/2x1x1/2	1 1/2x3/4x1 1/4	1 1/2x1 1/4x1 1/2	2x1x1 1/2
	mm	40x25x15	40x25x32	40x32x15	50x25x40
Dim. (mm)	A	37	45	36	51
	B	41	47	42	55
	C	32	41.5	34	45.5



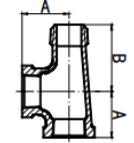
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130R Reducing Tee

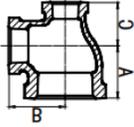
Size	Inch	2X1/4X1	2X1/4X1/2	1/2X1/4X3/4	1/2X1/2X1
	mm	50X32X25	50X32X40	40X32X20	40X32X25
Dim. (mm)	A	40	52	38	42
	B	51	55	44	46
	C	44	48	36	40
Size	Inch	1/2X1/4X2	2X1/2X1/2	2X1/2X3/4	2X1/2X1
	mm	40X32X50	50X40X15	50X40X20	50X40X25
Dim. (mm)	A	55	38	40	44
	B	51.5	48	50	52
	C	53.5	36	39	42

134 Service Tee

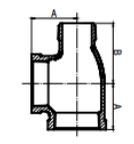
Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	28.5	33.5	38	44.5	49.5	57
	B	41.5	48	54.5	62	68.5	83
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

130R Reducing Tee

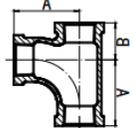
Size	Inch	2X1/2X1/4	2X1/2X1/2	2X1/2X1
	mm	50X40X32	65X50X15	65X50X25
Dim. (mm)	A	48	57	53
	B	54	64	60
	C	46	52	53
Size	Inch	2 1/2X2X1 1/4	3X2 1/2X2	
	mm	65X50X32	80X65X50	
Dim. (mm)	A	57	67	
	B	64	74.5	
	C	52	64	

134R Reducing Service Tee

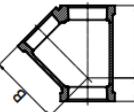
Size	Inch	2X1/4	2 1/2X2	3X2 1/2			
	mm	50X40	65X50	80X65			
Dim. (mm)	A	57	69	78			
	B	75	88	106			
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

131 Pitcher Tee

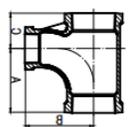
Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	45	50	63	76	85	102
	B	24	28	33	40	43	53
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

165 Lateral Y Branche, 45°

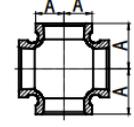
Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	15.5	18.3	21.6	26	27.9	31.5
	B	43.4	52	61.7	74.2	83.3	99.8
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	38.6	43.4	51			
	B	120	141	177			

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	1 1/4X1/2	1 1/4X3/4	1 1/2X3/4	1 1/2X1
	mm	32X15	32X20	40X20	40X25
Dim. (mm)	A	51	55	55	66
	B	56	58	61	71
	C	30	33	33	36

180 Cross

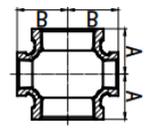



Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	19	21	25	28	33	38
	B						
Size	Inch	1 1/4	1 1/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	45	50	58	69	78	96
	B						



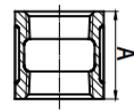
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180R Reducing Cross

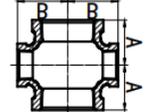
Size	Inch	4X1	4X1/4	4X1/2	4X2	4X2 1/2
	mm	100X25	100X32	100X40	100X50	100X65
Dim. (mm)	A	56	60	61	70	84
	B	81	84	84	86	92
Size	Inch	1 1/2X1 1/2	1 1/2X3/4	1 1/2X1	1 1/2X1 1/4	2X3/4
	mm	40X15	40X20	40X25	40X32	50X20
Dim. (mm)	A	36	38	42	46	40
	B	42	44	46	48	50

220S Socket R/L

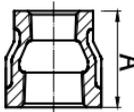
Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	36	39	45	50	55	65
	B						
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

180R Reducing Cross

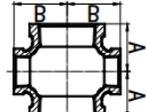
Size	Inch	4X3	3/4X1 1/2	1X1 1/2	1X3/4	1 1/4X1 1/2
	mm	100X80	20X15	25X15	25X20	32X15
Dim. (mm)	A	82	30	32	35	34
	B	90	31	34	36	38
Size	Inch	2X1	2X1 1/4	2X1 1/2	2 1/2X3/4	2 1/2X1
	mm	50X25	50X32	50X40	65X20	65X25
Dim. (mm)	A	44	48	52	43	47
	B	52	54	55	57	60

240 Reducing Socket

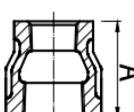
Size	Inch	4X1	4X1/4	4X1/2	4X2	4X2 1/2
	mm	100X25	100X32	100X40	100X50	100X65
Dim. (mm)	A	94	94	94	94	94
	B					
Size	Inch	1 1/2X1 1/8	1 1/2X1/4	1 1/2X3/8	3/4X1 1/8	3/4X1/4
	mm	15X6	15X8	15X10	20X8	20X8
Dim. (mm)	A	36	36	36	39	39
	B					

180R Reducing Cross

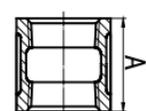
Size	Inch	1 1/4X3/4	1 1/4X1	2 1/2X2	3X3/4	3X1	2 1/2X1 1/4
	mm	32X20	32X25	65X30	80X20	80X25	65X32
Dim. (mm)	A	36	40	61	45	51	52
	B	41	42	66	65	67	62
Size	Inch	2 1/2X1 1/2	3X1 1/4	3X1 1/2	3X2	3X2 1/2	
	mm	65X40	80X32	80X40	80X38	80X45	
Dim. (mm)	A	65	55	58	64	72	
	B	63	70	71	73	76	

240 Reducing Socket

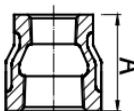
Size	Inch	4X3	3/8X1 1/8	3/8X1/4	5/4	6X4
	mm	100X80	10X6	10X8	125X100	150X100
Dim. (mm)	A	94	30	30	122	105
	B					
Size	Inch	3/4X3/8	3/4X1/2	1X1/4	1X3/8	1X1/2
	mm	20X10	20X15	25X8	25X10	25X15
Dim. (mm)	A	36	39	45	45	45
	B					

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
	B							
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
	B							

240 Reducing Socket

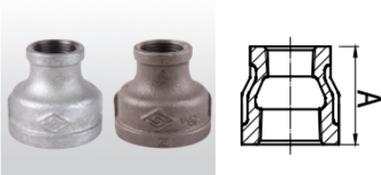



Size	Inch	6X2	6X3	1 1/4X3/8	1 1/4X1/2	1 1/4X3/4
	mm	150X20	150X30	32X10	32X15	32X20
Dim. (mm)	A	105	105	50	50	50
	B					
Size	Inch	1X3/4	1 1/4X1/4	2X1	2X1 1/4	2X1 1/2
	mm	25X20	32X8	50X25	50X32	50X40
Dim. (mm)	A	45	50	65	65	74
	B					



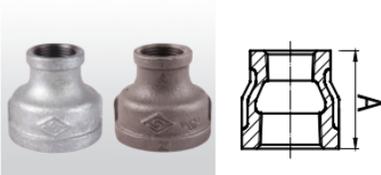
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240 Reducing Socket



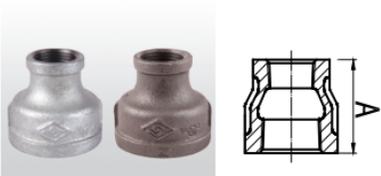
Size	Inch	6X2	6X3	11/4X3/8	11/4X1/2	11/4X3/4	1X3/4
	mm	150X50	150X80	32X10	32X15	32X20	25X20
Dim. (mm)	A	105	105	50	50	50	45
Size	Inch	11/4X1/4	2X1	2X1/4	2X1/2	11/4X1	11/2X1/4
	mm	32X8	50X25	50X32	50X40	32X25	40X8
Dim. (mm)	A	50	65	65	74	50	55

240 Reducing Socket



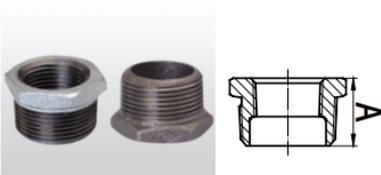
Size	Inch	11/2X3/8	11/2X1/2	11/2X3/4	21/2X1/2	21/2X3/4	21/2X1
	mm	40X10	40X15	40X20	65X15	65X20	65X25
Dim. (mm)	A	55	55	55	74	74	74
Size	Inch	21/2X1/4	21/2X1/2	11/2X1	11/2X1/4	2X1/2	2X3/4
	mm	65X32	65X40	40X25	40X32	50X15	50X20
Dim. (mm)	A	74	74	65	55	65	65

240 Reducing Socket



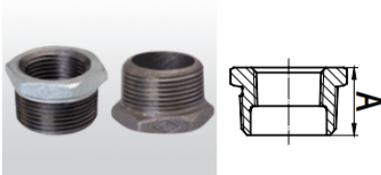
Size	Inch	3X1/4	21/2X2	3X1/2	3X3/4	3X1	3X11/2
	mm	80X32	65X50	80X15	80X20	80X25	80X40
Dim. (mm)	A	80	74	80	80	80	80
Size	Inch	3X2	3X21/2	1/4X1/8			
	mm	80X50	80X65	8X6			
Dim. (mm)	A	80	80	27			

241 Bushing



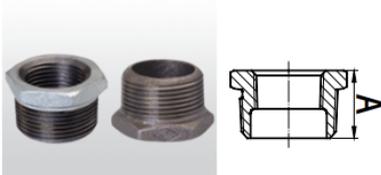
Size	Inch	4X3/4	4X1	4X1/4	4X1/2	4X3
	mm	100X20	100X25	100X32	100X40	100X80
Dim. (mm)	A	51	51	51	51	51
Size	Inch	1/2X3/8	3/4X1/8	3/4X1/4	3/4X3/8	3/4X1/2
	mm	15X10	20X8	20X8	20X10	20X15
Dim. (mm)	A	24	26	26	26	26

241 Bushing



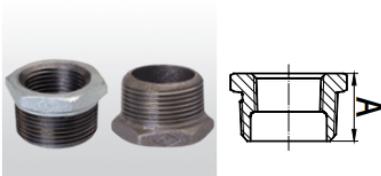
Size	Inch	3/8X1/8	3/8X1/4	5/4	6X5	6X21/2
	mm	10X6	10X8	12X100	150X125	150X65
Dim. (mm)	A	20	20	47	69	69
Size	Inch	1X1/4	1X3/8	1X1/2	1X3/4	11/4X3/8
	mm	25X8	25X10	25X15	25X20	32X10
Dim. (mm)	A	29	29	29	29	31

241 Bushing



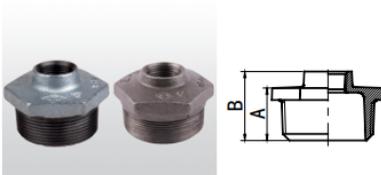
Size	Inch	1/2X1/8	1/2X1/4	11/4X1	11/2X1/4	11/2X3/8
	mm	15X6	15X8	32X25	40X8	40X10
Dim. (mm)	A	24	24	31	31	31
Size	Inch	11/4X1/2	11/4X3/4	21/2X11/2	21/2X2	3X2
	mm	32X15	32X20	65X40	65X50	80X50
Dim. (mm)	A	31	31	40	40	44

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

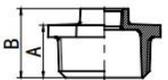


Size	Inch	2X1/2	2X3/4	21/2X1	21/2X11/4	3X1/2
	mm	50X15	50X20	65X25	65X32	80X15
Dim. (mm)	A	35	35	40	40	44
	B	48	48	54	54	59
Size	Inch	6X4	3X3/4	3X1	3X11/4	3X11/2
	mm	150X100	80X20	80X25	80X32	80X40
Dim. (mm)	A	63	44	44	44	44
	B	86	59	59	59	59



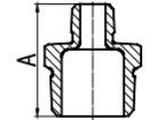
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241D Bushing

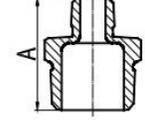
Size	Inch	4X2	4X1/2	6X3		
	mm	100X50	100X65	150X80		
Dim. (mm)	A	51	51	63		
	B	69	69	86		
Size	Inch					
	mm					
Dim. (mm)	A					
	B					

245 Reducing Hexagon Nipple

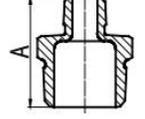
Size	Inch	4X2	4X1/2	4X3	3/8X1/4	1/2X3/4
	mm	100X50	100X65	100X80	10X8	15X8
Dim. (mm)	A	87	87	87	38	44
Size	Inch	11/4X3/4	11/4X1	11/2X1/2	11/2X3/4	11/2X1
	mm	32X20	32X25	40X15	40X20	40X25
Dim. (mm)	A	57	57	59	59	59

245 Reducing Hexagon Nipple

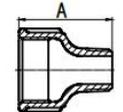
Size	Inch	1/2X3/8	3/4X1/4	3/4X3/8	3/4X1/2	1X1/2
	mm	15X10	20X8	20X10	20X15	25X15
Dim. (mm)	A	44	47	47	47	53
Size	Inch	11/2X1/4	2X1/2	2X3/4	2X1	2X11/4
	mm	40X32	50X15	50X20	50X25	50X32
Dim. (mm)	A	59	68	68	68	68

245 Reducing Hexagon Nipple

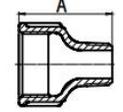
Size	Inch	1X3/4	11/4X1/2	21/2X11/4	21/2X11/2	21/2X2	2X11/2
	mm	25X20	32X15	65X32	65X40	65X50	50X40
Dim. (mm)	A	53	57	75	75	75	68
Size	Inch	14X1/8	21/2X1	3X11/2	3X2	3X21/2	
	mm	8X6	65X25	80X40	80X50	80X65	
Dim. (mm)	A	31	75	83	83	83	

246 Reducing Socket M/F

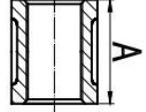
Size	Inch	3/8X1/4	1/2X1/4	1/2X3/8	3/4X3/8	3/4X1/2
	mm	10X8	15X8	15X10	20X10	20X15
Dim. (mm)	A	35	43	43	48	48
Size	Inch	11/2X11/4	2X1	2X11/4	2X11/2	1X1/2
	mm	40X32	50X25	50X32	50X40	25X15
Dim. (mm)	A	63	70	70	70	55

246 Reducing Socket M/F

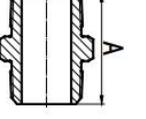
Size	Inch	1X3/4	11/4X1/2	11/4X3/4	11/4X1	11/2X3/4
	mm	25X20	32X15	32X20	32X25	40X20
Dim. (mm)	A	55	60	60	60	63
Size	Inch	11/2X1				
	mm	40X25				
Dim. (mm)	A	63				

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	65	65	74	80	94	

280 Hexagon Nipple

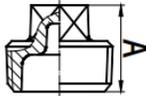



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	29	36	38	44	47	53	57
Size	Inch	5	6	11/2	2	21/2	3	4
	mm	125	150	40	50	65	80	100
Dim. (mm)	A	103	110	99	68	75	83	95



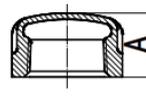
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291 Plain Plug

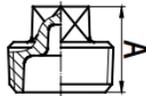
Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A Min	11	14	15	18	20	23	29
Size	Inch	1/2	2	2 1/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A Min	30	36	39	44	58	71.5	

300 Cap

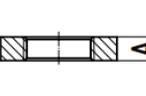
Size	Inch	1/8	1/4	3/8	1/2	3/4	1	1 1/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A Min	13	15	17	19	22	24	27
Size	Inch	1/2	2	2 1/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A Min	27	32	35	38	45	54	61

291LM Plain Plug

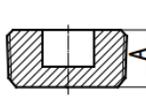
Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	25	28.5	32.5	35.1	37.6	40.1
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	46	50	64.5			

310 Locknut

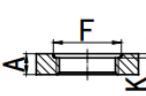
Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	6	7	8	9	10	11
Size	Inch	1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	12	13	16	19	23	

291N Countersunk Plug

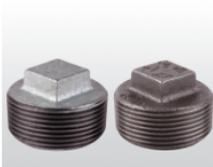
Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A Min	14.2	16	19	20.3	21.1	22.4
Size	Inch	2 1/2	3				
	mm	65	80				
Dim. (mm)	A Min	27.2	38.7				

312 Backnut

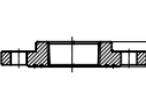
Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2	4
	mm	15	20	25	32	40	50	100
Dim. (mm)	A Min	7.9	8.6	9.7	10.7	11.6	13.5	20.3
	F Min	24.6	31.2	38.1	47.2	53.9	66.8	127
	K	1.5	1.5	1.5	1.5	1.5	2.3	3.3

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		

321-4 Flange Bs4504

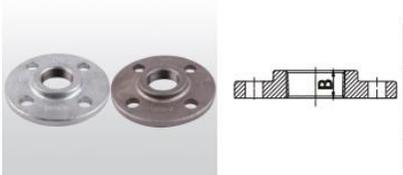



Size	Inch	1 1/4	1 1/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	23	23	28	35	38	38
Size	Inch	6					
	mm	150					
Dim. (mm)	A	46					



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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					

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				

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			

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	

321P Flange



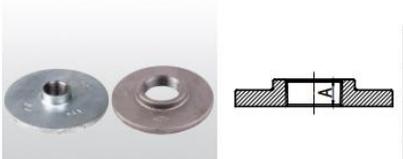
Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	15	16	19	21	21	26
Size	Inch	21/2	3	4	5	6	
	mm	65	80	100	125	150	
Dim. (mm)	A	30	33	39	40	40	

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	

321PW Flange



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

331 Flat Seat Union M/F

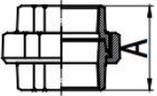


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	66	72	80	90	95	106
Size	Inch	21/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	118	130	133			



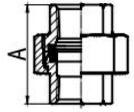
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340 Conical Joint Union

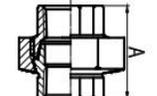
Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	38	42	45	48	52	58
Size	Inch	1/4	1/2	2	2 1/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	65	70	78	85	95	100

342A Double Bronze Navy Union

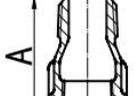
Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	48	52	58	65	70	78
Size	Inch						
	mm						
Dim. (mm)	A						

340Q Deflection Union

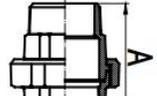
Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	46	49	55	64	74.5	83
Size	Inch						
	mm						
Dim. (mm)	A						

526 Long Adapter M/F

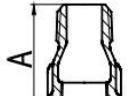
Size	Inch	1/2X3/4	1/2X40	1/2X50	1/2X60	1/2X100
	mm	15X30	15X40	15X50	15X60	15X100
Dim. (mm)	A	30	40	50	60	100
Size	Inch	1/2X3/4	1/2X40	1/2X50	1/2X60	1/2X100
	mm	15X30	15X40	15X50	15X60	15X100
Dim. (mm)	A	30	40	50	60	100

341 Conical Joint Union M/F

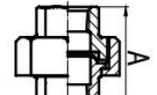
Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	55	55	66	72	80	90
Size	Inch	1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	95	106	118	130	133	

529A Long Extension Piece

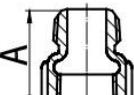
Size	Inch	1/4	3/8	1/2	3/4	1	1 1/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	33	35	43	48	55	60
Size	Inch	1/2	2	2 1/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	61.5	68	76	83	97	

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	1/2	2	2 1/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A Min	61	70	82	89	98	162	

529X Short Extension Piece

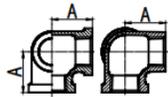
Size	Inch	1/2					
	mm	15					
Dim. (mm)	A	32					
Size	Inch						
	mm						
Dim. (mm)	A						



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1221

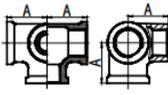
Side Outlet Elbow



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

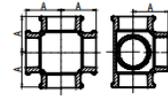
Side Outlet Tee



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

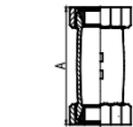
Side Outlet Cross



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

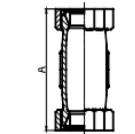
Coupling Luck M/F



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

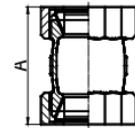
Long Compression Coupling



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	83	101	109	114	118	121
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	137	145	155			

SCC

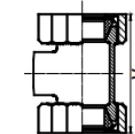
Short Compression Coupling



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						



FITTINGS FM APPROVED

Basic Dimension for British and Din Standard Pipe Threads

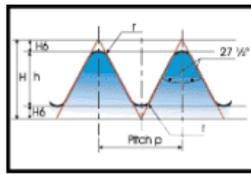
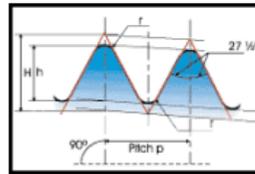
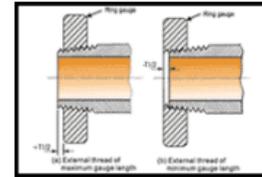


Fig 1 - Parallel thread
 $H = 0.968491 p$
 $h = 0.640327 p$
 $r = 0.137329 p$



Taper 2 - Taper thread
 $H = 0.968237 p$
 $h = 0.640327 p$
 $r = 0.137278 p$



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

International Standard ISO7/1, Pipe Threads Dimensions

Dimensions in millimeters

1	2	3	4	Dimensions in millimeters																																						
				5			6			7			8			9			10			11			12			13			14			15			16			17		
				Diameters at gauge plane			Gauge Length (external thread)						Tolerance on position of gauge			Length of useful external thread not less than																										
				Designations of thread size	Number of threads in 25.4 mm	Pitch P	Height of thread h	Major (gauge diameter) d	Pitch d2	Minor d1	Nominal	Tolerance ±T/2		Maximum	Minimum	Tolerance ±T/2		For Nominal gauge length	For maximum gauge length	For minimum gauge length																						
Turns of threads		Turns of threads																																								
1/8	26	0.907	0.581	9.728	9.147	8.566	4	0.9	1	4.9	3.1	1.1	1/14	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	1/14	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	1/14	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	1/14	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	1/14	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	1/14	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	1/14	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	1/14	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	1/14	23	25.7	21.1																										
2.1/2	11	2.309	1.479	75.184	73.705	72.226	17.5	3.5	1/12	21	14	3.5	1/12	26.7	30.2	23.2																										
3	11	2.309	1.479	87.884	86.405	84.926	20.6	3.5	1/12	24.1	17.1	3.5	1/12	29.8	33.3	26.3																										
4	11	2.309	1.479	113.03	111.551	110.072	25.4	3.5	1/12	28.9	21.9	3.5	1/12	35.8	39.3	32.3																										
5	11	2.309	1.479	138.43	136.951	135.472	28.6	3.5	1/12	32.1	25.1	3.5	1/12	40.1	43.6	36.6																										
6	11	2.309	1.479	163.83	162.351	160.872	28.6	3.5	1/12	32.1	25.1	3.5	1/12	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

