



MALLEABLE IRON PIPE FITTINGS



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FIG NO. 35B
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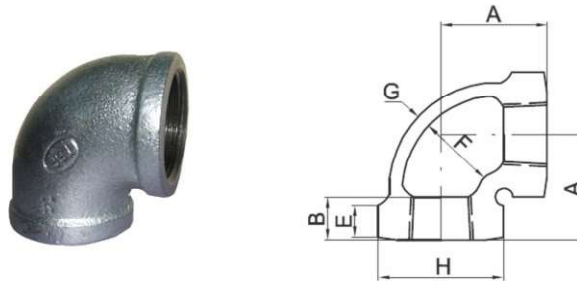


FIG NO. 35C
(Union Non Brass)
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FLOOR FLANGE

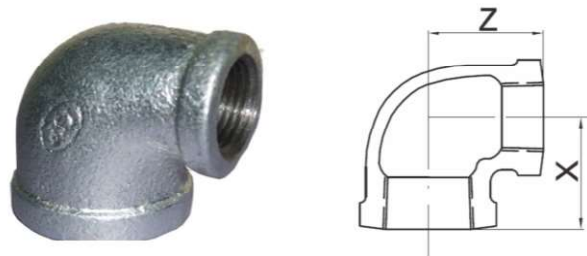
Fig No. 3 - ELBOWS 90° BANDED (BL 90)



Dimension of Class 150 - (in Inch)							
SIZE	A	B (min)	E (min)	F		G	H (min)
				Min	Max		
1/4"	0.81	0.32	0,21	0,54	0,58	0,09	0,84
3/8"	0.95	0.36	0,23	0,67	0,72	0,10	1,01
1/2"	1.12	0.43	0,25	0,84	0,90	0,10	1,20
3/4"	1.31	0.50	0,27	1,05	1,11	0,12	1,46
1"	1.50	0.58	0,30	1,31	1,38	0,13	1,77
1¼"	1.75	0.67	0,34	1,66	1,73	0,14	2,15
1½"	1.94	0.70	0,37	1,90	1,97	0,15	2,43
2"	2.25	0,75	0,42	2,37	2,44	0,17	2,96
2½"	2.70	0,92	0,48	2,87	2,97	0,21	3,59
3"	3.08	0,98	0,55	3,50	3,60	0,23	4,28
3½"	3.42	1,03	0,60	4,00	4,10	0,25	4,84
4"	3.79	1,08	0,66	4,50	4,60	0,26	5,40
5"	4.50	1,18	0,78	5,56	5,56	0,30	6,58
6"	5.13	1,28	0,90	6,62	6,72	0,34	7,77

Dimension of Class 300 - (in Inch)							
SIZE	A	B (min)	E (min)	F		G	H (min)
				Min	Max		
1/2"	1,25	0,57	0,50	0,84	0,90	0,16	1,34
3/4"	1,44	0,64	0,56	1,05	1,11	0,18	1,63
1"	1,63	0,75	0,62	1,31	1,38	0,20	1,95
1¼"	1,94	0,84	0,69	1,66	1,73	0,22	2,39
1 ½"	2,13	0,87	0,75	1,90	1,97	0,24	2,68
2"	2,50	1,00	0,84	2,37	2,44	0,26	3,28

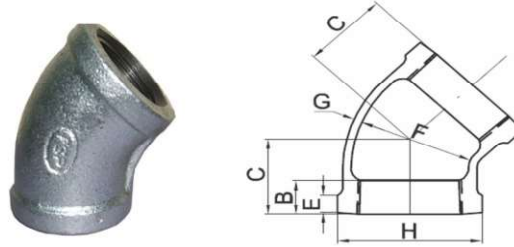
Fig No. 4 - REDUCING ELBOWS 90° BANDED (BRL)



Dimension of Class 150 - (in Inch)		
SIZE	X	Z
1/4 X 1/8"	0,74	0,76
3/8 X 1/4"	0,88	0,90
3/8 X 1/8"	0,81	0,85
1/2 X 3/8"	1,04	1,03
1/2 X 1/4"	0,97	0,98
3/4 X 1/2"	1,20	1,22
3/4 X 3/8"	1,12	1,13
3/4 X 1/4"	1,05	1,08
1 X 3/4"	1,37	1,45
1 X 1/2"	1,26	1,36
1 X 3/8"	1,18	1,27
1¼ X 1"	1,58	1,67
1¼ X 3/4"	1,45	1,62
1¼ X 1/2"	1,34	1,53
1½ X 1¼"	1,82	1,88
1½ X 1"	1,65	1,80
1½ X 3/4"	1,52	1,75
2 X 1½"	2,02	2,16
2 X 1¼"	1,90	2,10
2 X 1"	1,73	2,02
2 X 3/4"	1,60	1,97
2½ X 2"	2,39	2,60
2½ X 1½"	2,16	2,51
3 X 2½"	2,83	2,99
3 X 2"	2,52	2,89
4 X 3"	3,30	3,60

Note : For dimensions not given, see the dimensions table of Elbow

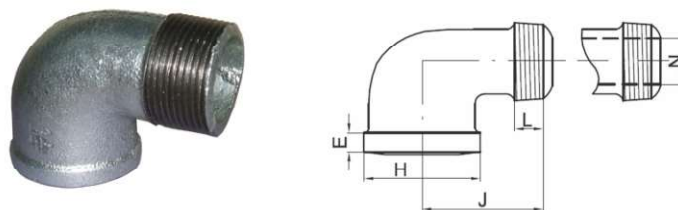
Fig No. 6 - ELBOWS 45° BANDED (BL 45)



Dimension of Class 150 - (in Inch)							
SIZE	C	B (min)	E (min)	F		G	H (min)
				Min	Max		
1/4"	0,73	0,32	0,21	0,54	0,58	0,09	0,84
3/8"	0,80	0,36	0,23	0,67	0,72	0,10	1,01
1/2"	0,88	0,43	0,25	0,84	0,90	0,10	1,20
3/4"	0,98	0,50	0,27	1,05	1,11	0,12	1,46
1"	1,12	0,58	0,30	1,31	1,38	0,13	1,77
1¼"	1,29	0,67	0,34	1,66	1,73	0,14	2,15
1½"	1,43	0,70	0,37	1,90	1,97	0,15	2,43
2"	1,68	0,75	0,42	2,37	2,44	0,17	2,96
2½"	1,95	0,92	0,48	2,87	2,97	0,21	3,59
3"	2,17	0,98	0,55	3,50	3,60	0,23	4,28
3½"	2,39	1,03	0,60	4,00	4,10	0,25	4,84
4"	2,61	1,08	0,66	4,50	4,60	0,26	5,40
5"	3,05	1,18	0,78	5,56	5,66	0,30	6,58
6"	3,46	1,28	0,90	6,62	6,72	0,34	7,77

Dimension of Class 300 - (in Inch)							
SIZE	C	B (min)	E (min)	F		G	H (min)
				Min	Max		
1/2"	1,00	0,57	0,50	0,84	0,90	0,16	1,34
3/4"	1,13	0,64	0,56	1,05	1,11	0,18	1,63
1"	1,31	0,75	0,62	1,31	1,38	0,20	1,95
1¼"	1,50	0,84	0,69	1,66	1,73	0,22	2,39
1½"	1,69	0,87	0,75	1,90	1,97	0,24	2,68
2"	2,00	1,00	0,84	2,37	2,44	0,26	3,28

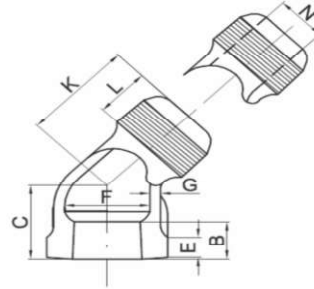
Fig No. 7B - STREET ELBOWS 90° BANDED (BSL 90)



Dimension of Class 150 - (in Inch)						
SIZE	A	E (min)	H (min)	J	L (min)	N
1/8"	0,69	0,20	0,69	1,00	0,26	0,20
1/4"	0.81	0,21	0,84	1,19	0,40	0,26
3/8"	0.95	0,23	1,01	1,44	0,41	0,37
1/2"	1.12	0,25	1,20	1,63	0,53	0,51
3/4"	1.31	0,27	1,46	1,89	0,55	0,69
1"	1.50	0,30	1,77	2,14	0,68	0,91
1¼"	1.75	0,34	2,15	2,45	0,71	1,19
1½"	1.94	0,37	2,43	2,69	0,72	1,39
2"	2.25	0,42	2,96	3,26	0,76	1,79
2½"	2.70	0,48	3,59	3,86	1,14	2,20
1"	1.50	0,30	1,77	2,14	0,68	0,91
1¼"	1.75	0,34	2,15	2,45	0,71	1,19
1½"	1.94	0,37	2,43	2,69	0,72	1,39
2"	2.25	0,42	2,96	3,26	0,76	1,79

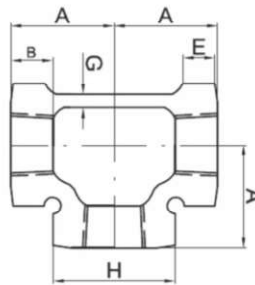
Dimension of Class 300 - (in Inch)					
SIZE	A	H (min)	J	L (min)	N
1/2"	1.25	1.34	2.00	0.53	0.49
3/4"	1.44	1.63	2.19	0.55	0.67
1"	1.63	1.95	2.56	0.68	0.88
1 ¼"	1.94	2.39	2.88	0.71	1.16
1½"	2.13	2.68	3.13	0.72	1.35
2"	2.50	3.28	3.69	0.76	1.75

STREET ELBOWS 45° BANDED (BSL 45)



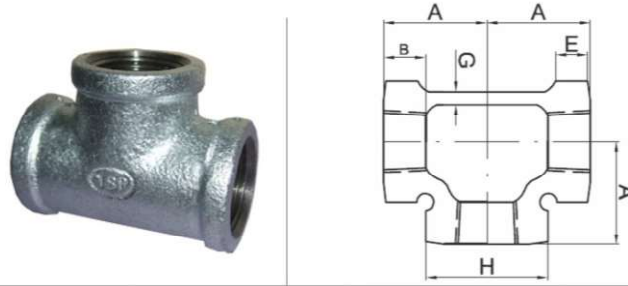
Dimension of Class 150 - (in Inch)									
SIZE	C	B (min)	E (min)	F		G	K	L (min)	N
				Min	Max				
1/4"	0.73	0.32	0.21	0.54	0.58	0.09	0.94	0.40	0.26
3/8"	0.80	0.36	0.23	0.67	0.72	0.10	1.03	0.41	0.37
1/2"	0.88	0.43	0.25	0.84	0.90	0.10	1.15	0.53	0.51
3/4"	0.98	0.50	0.27	1.05	1.11	0.12	1.29	0.55	0.69
1"	1.12	0.58	0.30	1.31	1.38	0.13	1.47	0.68	0.91
1¼"	1.29	0.67	0.34	1.66	1.73	0.14	1.71	0.71	1.19
1½"	1.43	0.70	0.37	1.90	1.97	0.15	1.88	0.72	1.39
2"	1.68	0.75	0.42	2.37	2.44	0.17	2.22	0.76	1.79
2½"	1.95	0.92	0.48	2.87	2.97	0.21	2.57	1.14	2.20
3"	2.17	0.98	0.55	3.50	3.60	0.23	3.00	1.20	2.78
4"	2.61	1.08	0.66	4.50	4.60	0.26	3.70	1.30	3.70
5"	-	1.18	0.78	5.56	5.66	0.30	-	1.41	4.69
6"	-	1.28	0.90	6.62	6.72	0.34	-	1.51	5.67

Fig No. 13 - TEES BANDED (BT)



Dimension of Class 150 - (in Inch)					
SIZE	A	B (min)	E (min)	G	H (min)
1/8"	0.69	0.25	0.20	0.09	0.69
1/4"	0.81	0.32	0.21	0.09	0.84
3/8"	0.95	0.36	0.23	0.10	1.01
1/2"	1.12	0.43	0.25	0.10	1.20
3/4"	1.31	0.50	0.27	0.12	1.46
1"	1.50	0.58	0.30	0.13	1.77

Fig No. 13 - TEES BANDED (BT)



Dimension of Class 150 - (in Inch)

SIZE	A	B (min)	E (min)	G	H (min)
1¼"	1.75	0.67	0.34	0.14	2.15
1½"	1.94	0.70	0.37	0.15	2.43
2"	2.25	0.75	0.42	0.17	2.96
2½"	2.70	0.92	0.48	0.21	3.59
3"	3.08	0.98	0.55	0.23	4.28
3½"	3.42	1.03	0.60	0.25	4.84
4"	3.79	1.08	0.66	0.26	5.40
5"	4.50	1.18	0.78	0.30	6.58
6"	5.13	1.28	0.90	0.34	7.77

Dimension of Class 300 - (in Inch)

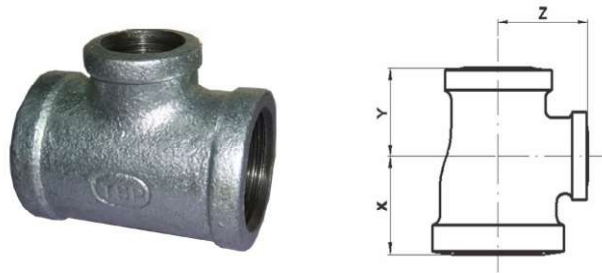
SIZE	A	B (min)	E (min)	G	H (min)
1/2"	1.25	0.57	0.50	0.16	1.34
3/4"	1.44	0.64	0.56	0.18	1.63
1"	1.63	0.75	0.62	0.20	1.95
1¼"	1.94	0.84	0.69	0.22	2.39
1½"	2.13	0.87	0.75	0.24	2.68
2"	2.50	1.00	0.84	0.26	3.28

Fig No. 14 - REDUCING TEES BANDED (BRT)



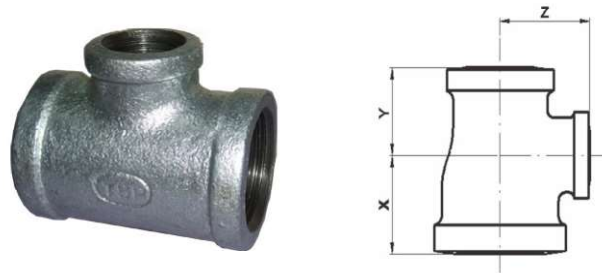
Dimension of Class 150 - (in Inch)							
SIZE	X	Y	Z	SIZE	X	Y	Z
1/4 X 1/4 X 1/8"	0.74	0.74	0.76	1 X 1 X 1/2"	1.26	1.26	1.36
1/8 X 1/8 X 1/4"	0.76	0.76	0.74	1 X 1 X 3/8"	1.18	1.18	1.27
3/8 X 3/8 X 1/4"	0.88	0.88	0.90	1 X 1 X 1/4"	1.11	1.11	1.22
3/8 X 3/8 X 1/8 "	0.81	0.81	0.85	1 X 3/4 X 1"	1.50	1.45	1.50
3/8 X 1/4 X 3/8"	0.95	0.90	0.95	1 X 3/4 X 3/4"	1.37	1.31	1.45
3/8 X 1/4 X 1/4"	0.88	0.81	0.90	1 X 3/4 X 1/2"	1.26	1.20	1.36
1/4 X 1/4 X 3/8"	0.90	0.90	0.88	1 X 1/2 X 1"	1.50	1.36	1.50
1/2 X 1/2 X 3/8"	1.04	1.04	1.03	1 X 1/2 X 3/4"	1.37	1.22	1.45
1/2 X 1/2 X 1/4"	0.97	0.97	0.98	1 X 1/2 X 1/2"	1.26	1.12	1.36
1/2 X 3/8 X 1/2"	1.12	1.03	1.12	3/4 X 3/4 X 1"	1.45	1.45	1.37
1/2 X 3/8 X 3/8"	1.04	0.95	1.03	1/2 X 1/2 X 1"	1.36	1.36	1.26
1/2 X 1/4 X 1/2"	1.12	0.98	1.12	1 1/4 X 1 1/4 X 1"	1.58	1.58	1.67
3/8 X 3/8 X 1/2"	1.03	1.03	1.04	1 1/4 X 1 1/4 X 3/4"	1.45	1.45	1.62
3/4 X 3/4 X 1/2"	1.20	1.20	1.22	1 1/4 X 1 1/4 X 1/2"	1.34	1.34	1.53
3/4 X 3/4 X 3/8"	1.12	1.12	1.13	1 1/4 X 1 1/4 X 3/8"	1.26	1.26	1.44
3/4 X 3/4 X 1/4"	1.05	1.05	1.08	1 1/4 X 1 X 1 1/4"	1.75	1.67	1.75
3/4 X 1/2 X 3/4"	1.31	1.22	1.31	1 1/4 X 1 X 1"	1.58	1.50	1.67
3/4 X 1/2 X 1/2"	1.20	1.12	1.22	1 1/4 X 1 X 3/4"	1.45	1.37	1.62
3/4 X 1/2 X 3/8"	1.12	1.04	1.13	1 1/4 X 1 X 1/2"	1.34	1.26	1.53
3/4 X 3/8 X 3/4"	1.31	1.13	1.31	1 1/4 X 3/4 X 1 1/4"	1.75	1.62	1.75
3/4 X 3/8 X 3/8"	1.12	0.95	1.13	1 1/4 X 3/4 X 1"	1.58	1.45	1.67
3/4 X 1/4 X 3/4"	1.31	1.08	1.31	1 1/4 X 3/4 X 3/4"	1.45	1.31	1.62
1/2 X 1/2 X 3/4"	1.22	1.22	1.20	1 1/4 X 1/2 X 1 1/4"	1.75	1.53	1.75
1 X 1 X 3/4"	1.37	1.37	1.45	1 1/4 X 1/2 X 1"	1.58	1.36	1.67

Fig No. 14 - REDUCING TEES BANDED (BRT)



Dimension of Class 150 - (in Inch)							
SIZE	X	Y	Z	SIZE	X	Y	Z
1 X 1 X 1¼"	1.67	1.67	1.58	2 X 1½ X 1½"	2.02	1.94	2.16
¾ X ¾ X 1 ¼"	1.62	1.62	1.45	2 X 1½ X 1¼"	1.90	1.82	2.10
1 ½ X 1 ½ X 1¾"	1.82	1.82	1.88	2 X 1½ X 1"	1.73	1.65	2.02
1½ X 1½ X 1"	1.65	1.65	1.80	2 X 1¼ X 2"	2.25	2.10	2.25
1½ X 1½ X ¾"	1.52	1.52	1.75	2 X 1¼ X 1½"	2.02	1.88	2.16
1½ X 1½ X 1/2"	1.41	1.41	1.66	2 X 1¼ X 1¼"	1.90	1.75	2.10
1½ X 1¼ X 1½"	1.94	1.88	1.94	2 X 1 X 2"	2.25	2.02	2.25
1½ X 1¼ X 1¼"	1.82	1.75	1.88	2 X 1 X 1½"	2.02	1.80	2.16
1½ X 1¼ X 1"	1.65	1.58	1.80	2 X ¾ X 2"	2.25	1.97	2.25
1½ X 1¼ X ¾"	1.52	1.45	1.75	2 X 1/2 X 2"	2.25	1.88	2.25
1½ X 1¼ X 1/2"	1.41	1.34	1.66	1½ X 1½ X 2"	2.16	2.16	2.02
1½ X 1 X 1½"	1.94	1.80	1.94	1¼ X 1¼ X 2"	2.10	2.10	1.90
1½ X 1 X 1¼"	1.82	1.67	1.88	1 X 1 X 2"	2.02	2.02	1.73
1½ X 1 X 1"	1.65	1.50	1.80	2½ X 2½ X 2"	2.39	2.39	2.60
1½ X ¾ X 1½"	1.94	1.75	1.94	2½ X 2½ X 1½"	2.16	2.16	2.51
1½ X ½ X 1½"	1.94	1.66	1.94	2½ X 2½ X 1¼"	2.04	2.04	2.45
1¼ X 1¼ X 1½"	1.88	1.88	1.82	2½ X 2½ X 1"	1.87	1.87	2.37
1 X 1 X 1½"	1.80	1.80	1.65	2½ X 2½ X ¾"	1.74	1.74	2.32
2 X 2 X 1½"	2.02	2.02	2.16	2½ X 2 X 2½"	2.70	2.60	2.70
2 X 2 X 1¼"	1.90	1.90	2.10	2½ X 2 X 2"	2.39	2.25	2.60
2 X 2 X 1"	1.73	1.73	2.02	2½ X 1½ X 2½"	2.70	2.51	2.70
2 X 2 X ¾"	1.60	1.60	1.97	2½ X 1½ X 2"	2.39	2.16	2.60
2 X 2 X 1/2"	1.49	1.49	1.88	2 X 2 X 2½"	2.60	2.60	2.39
2 X 1½ X 2"	2.25	2.16	2.25	3 X 3 X 2½"	2.83	2.83	2.99

Fig No. 14 - REDUCING TEES BANDED (BRT)

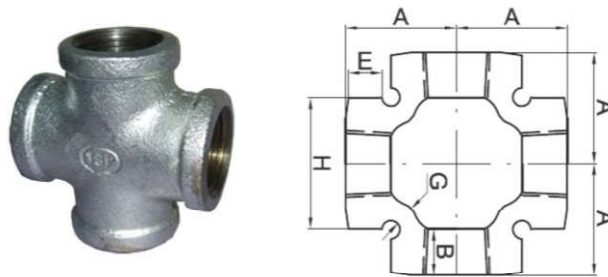


Dimension of Class 150 - (in Inch)							
SIZE	X	Y	Z	SIZE	X	Y	Z
3 X 3 X 2"	2.52	2.52	2.89	4 X 4 X 3"	3.30	3.30	3.60
3 X 3 X 1 1/2"	2.29	2.29	2.80	4 X 4 X 2 1/2"	3.05	3.05	3.51
3 X 3 X 1 1/4"	2.17	2.17	2.74	4 X 4 X 2"	2.74	2.74	3.41
3 X 3 X 1"	2.00	2.00	2.66	4 X 4 X 1 1/2"	2.51	2.51	3.32
3 X 3 X 3/4"	1.87	1.87	2.61	4 X 3 X 4"	3.79	3.60	3.79
3 X 2 1/2 X 3"	3.08	2.99	3.08	3 X 3 X 4"	3.60	3.60	3.30
3 X 2 1/2 X 2 1/2"	2.83	2.70	2.99				
3 X 2 1/2 X 2"	2.52	2.39	2.89				
3 X 2 X 3"	3.08	2.89	3.08				
3 X 2 X 2"	2.52	2.25	2.89				
2 1/2 X 2 1/2 X 3"	2.99	2.99	2.83				

Dimension of Class 300 - (in Inch)							
SIZE	X	Y	Z	SIZE	X	Y	Z
3/4 X 3/4 X 1/2"	1.31	1.31	1.38	1 1/2 X 1 1/2 X 1"	1.81	1.81	2.00
1 X 1 X 1/2"	1.44	1.44	1.50	1 1/2 X 1 1/2 X 1 1/4"	2.00	2.00	2.06
1 X 1 X 3/4"	1.50	1.50	1.56	2 X 2 X 1 1/2"	1.75	1.75	2.06
1 1/4 X 1 1/4 X 1/2"	1.50	1.50	1.69	2 X 2 X 3/4"	1.81	1.81	2.13
1 1/4 X 1 1/4 X 3/4"	1.63	1.63	1.75	2 X 2 X 1"	2.00	2.00	2.25
1 1/4 X 1 1/4 X 1"	1.75	1.75	1.81	2 X 2 X 1 1/4"	2.13	2.13	2.31
1 1/2 X 1 1/2 X 1/2"	1.63	1.63	1.81	2 X 2 X 1 1/2"	2.25	2.25	2.38
1 1/2 X 1 1/2 X 3/4"	1.69	1.69	1.88				

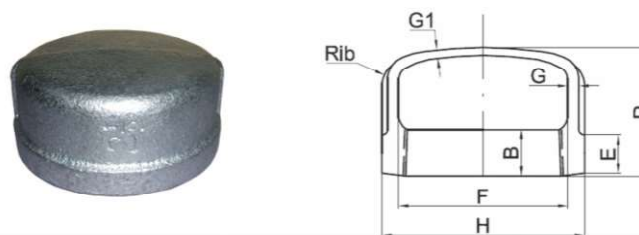
Note : For dimensions not given, see the dimensions table of Tees

Fig No. 19A - CROSSES (BCR)



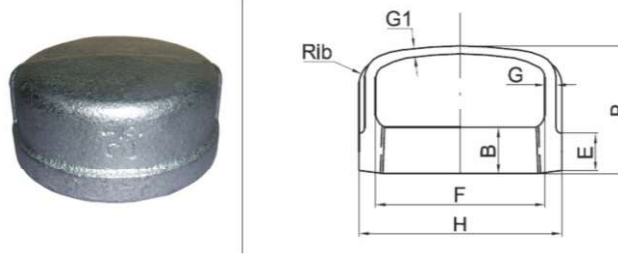
Dimension of Class 150 - (in Inch)					
SIZE	A	B (min)	E (min)	G	H (min)
1/4"	0.81	0.32	0.21	0.09	0.84
3/8"	0.95	0.36	0.23	0.10	1.01
1/2"	1.12	0.43	0.25	0.10	1.20
3/4"	1.31	0.50	0.27	0.12	1.46
1"	1.50	0.58	0.30	0.13	1.77
1 1/4"	1.75	0.67	0.34	0.14	2.15
1 1/2"	1.94	0.70	0.37	0.15	2.43
2"	2.25	0.75	0.42	0.17	2.96
2 1/2"	2.70	0.92	0.48	0.21	3.59
3"	3.08	0.98	0.55	0.23	4.28
3 1/2"	3.42	1.03	0.60	0.25	4.84
4"	3.79	1.08	0.66	0.26	5.40
5"	4.50	1.18	0.78	0.30	6.58
6"	5.13	1.28	0.90	0.34	7.77

Fig No. 21A - ROUND CAPS BANDED (RC)



Dimension of Class 150 - (in Inch)									
SIZE	B (min)	E (min)	F		G	H (min)	P (min)	Ribs	G1
			Min	Max					
1/4"	0.32	0.21	0.54	0.58	0.09	0.84	0.63	-	-
3/8"	0.36	0.23	0.67	0.72	0.10	1.01	0.74	-	-
1/2"	0.43	0.25	0.84	0.90	0.10	1.20	0.87	0.10	-
3/4"	0.50	0.27	1.05	1.11	0.12	1.46	0.97	0.12	0.13
1"	0.58	0.30	1.31	1.38	0.13	1.77	1.16	0.13	0.15

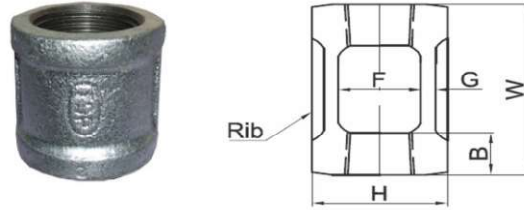
Fig No. 21A - ROUND CAPS BANDED (RC)



Dimension of Class 150 - (in Inch)									
SIZE	B (min)	E (min)	F		G	H (min)	P (min)	Ribs	G1
			Min	Max					
1¼"	0.67	0.34	1.66	1.73	0.14	2.15	1.28	0.14	0.17
1½"	0.70	0.37	1.90	1.97	0.15	2.43	1.33	0.15	0.19
2"	0.75	0.42	2.37	2.44	0.17	2.46	1.45	0.17	0.22
2½"	0.92	0.48	2.87	2.97	0.21	3.59	1.70	0.21	0.25
3"	0.98	0.55	3.50	3.60	0.23	4.28	1.80	0.23	0.29
3½"	1.03	0.60	4.00	4.10	0.25	4.84	1.90	0.25	0.30
4"	1.08	0.66	4.50	4.60	0.26	5.40	2.08	0.26	0.36
5"	1.18	0.78	5.56	5.66	0.30	6.58	2.32	0.30	-
6"	1.28	0.90	6.62	6.72	0.34	7.77	2.55	0.34	-

Dimension of Class 300 - (in Inch)									
SIZE	B (min)	E (min)	F		G	H (min)	P (min)	G1	
			Min	Max					
1/2"	0.57	0.50	0.84	0.90	0.16	1.34	0.98	0.20	
3/4"	0.64	0.56	1.05	1.11	0.18	1.63	1.08	0.23	
1"	0.75	0.62	1.31	1.38	0.20	1.95	1.26	0.25	
1¼"	0.84	0.69	1.66	1.73	0.22	2.39	1.38	0.28	
1½"	0.87	0.75	1.90	1.97	0.24	2.68	1.43	0.30	
2"	1.00	0.84	2.37	2.44	0.26	3.28	1.68	0.33	
2½"	1.17	0.94	2.87	2.97	0.31	3.86	2.06	0.39	
3"	1.23	1.00	3.50	3.60	0.35	4.62	2.17	0.44	

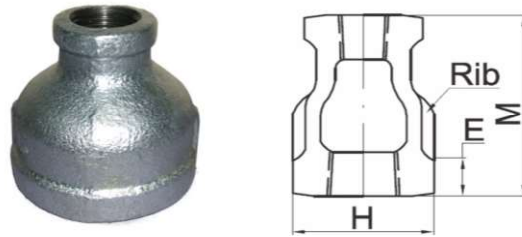
Fig No. 24B - COUPLINGS BANDED (BS)



Dimension of Class 150 - (in Inch)							
SIZE	B (min)	F		G	H (min)	Ribs	W
		Min	Max				
1/8"	0.25	0.4	0.43	0.09	0.69	0.09	0.96
1/4"	0.32	0.54	0.58	0.09	0.84	0.09	1.06
3/8"	0.36	0.67	0.72	0.10	1.01	0.10	1.16
1/2"	0.43	0.84	0.90	0.10	1.20	0.10	1.34
3/4"	0.50	1.05	1.11	0.12	1.46	0.12	1.52
1"	0.58	1.31	1.38	0.13	1.77	0.13	1.67
1¼"	0.67	1.66	1.73	0.14	2.15	0.14	1.93
1½"	0.70	1.90	1.97	0.15	2.43	0.15	2.15
2"	0.75	2.37	2.44	0.17	2.96	0.17	2.53
2½"	0.92	2.87	2.97	0.21	3.59	0.21	2.88
3"	0.98	3.50	3.60	0.23	4.28	0.23	3.18
4"	1.08	4.50	4.60	0.26	5.40	0.26	3.69

Dimension of Class 300 - (in Inch)							
SIZE	B (min)	F		G	H (min)	Ribs	W
		Min	Max				
1/2"	0.57	0.84	0.90	0.16	1.34	0.16	1.87
3/4"	0.64	1.05	1.11	0.18	1.63	0.18	2.12
1"	0.75	1.31	1.38	0.20	1.95	0.20	2.37
1¼"	0.84	1.66	1.73	0.22	2.39	0.22	2.87
1½"	0.87	1.90	1.97	0.24	2.68	0.24	2.87
2"	1.00	2.37	2.44	0.26	3.28	0.26	3.62

Fig No. 26 - REDUCING COUPLINGS BANDED (BRS)

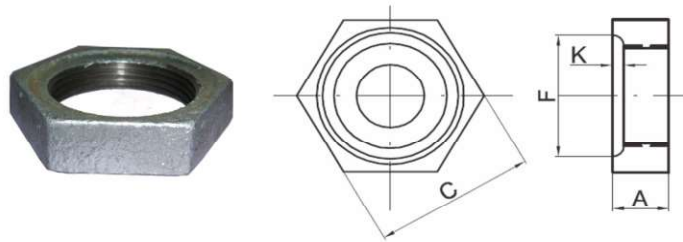


Dimension of Class 150 - (in Inch)				
SIZE	E (min)	H (min)	Ribs	M
1/4"	0.21	0.84	0.09	1.00
3/8"	0.23	1.01	0.10	1.13
1/2"	0.25	1.20	0.10	1.25
3/4"	0.27	1.46	0.12	1.44
1"	0.30	1.77	0.13	1.69
1¼"	0.34	2.15	0.14	2.06
1½"	0.37	2.43	0.15	2.31
2"	0.42	2.96	0.17	2.81
2½"	0.48	3.59	0.21	3.25
3"	0.55	4.28	0.23	3.69
4"	0.66	5.40	0.26	4.38

Dimension of Class 300 - (in Inch)				
SIZE	E (min)	H (min)	Ribs	M
1/4"	0.38	0.93	0.14	1.69
3/8"	0.44	1.12	0.15	1.44
1/2"	0.50	1.34	0.16	1.69
3/4"	0.56	1.63	0.18	1.75
1"	0.62	1.95	0.20	2
1¼"	0.69	2.39	0.22	2.38
1½"	0.75	2.68	0.24	2.69
2"	0.84	3.28	0.26	3.19

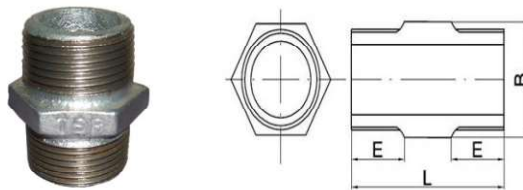
Note : For dimensions not given, see the dimensions table of Sockets

Fig No. 29 - LOCKNUTS (LN)



Dimension of Class 150 - (in Inch)				
SIZE	A (min)	C (min)	F (min)	K
1/4"	0.25	0.84	0.66	0.06
3/8"	0.28	1.00	0.77	0.06
1/2"	0.31	1.18	0.97	0.06
3/4"	0.34	1.43	1.23	0.06
1"	0.38	1.75	1.50	0.06
1 ¼"	0.42	2.10	1.86	0.06
1 ½"	0.47	2.35	2.12	0.06
2"	0.53	2.88	2.63	0.09
2 ½"	0.59	3.50	3.18	0.09
3"	0.67	4.27	3.84	0.09
3 ½"	0.73	4.84	4.38	0.13
4"	0.80	5.38	5.00	0.13

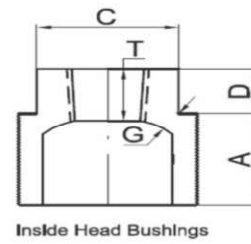
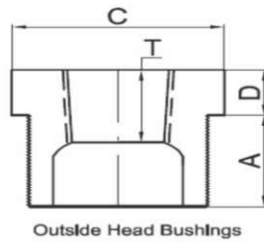
Fig No. 32 - NIPPLES (N)



Dimension of Class 150 - (in Inch)				
SIZE	E	N	L	FEATURE
1/2"	0,63	0,51	1,65	OCTAGON
3/4"	0,71	0,71	1,85	OCTAGON
1"	0,79	0,94	2,05	OCTAGON
1 ¼"	0,87	1,26	2,20	OCTAGON
1 ½"	0,91	1,46	2,36	OCTAGON
2"	0,98	1,89	2,60	DECAGON

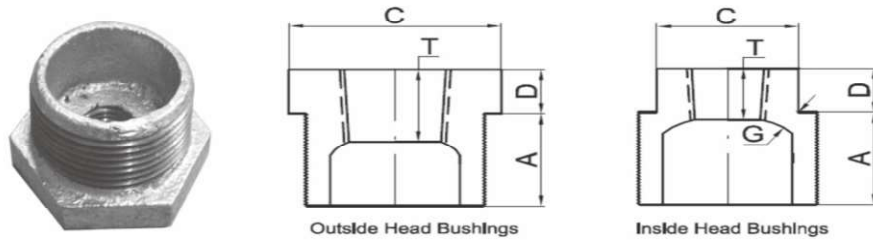
NOTE : REFERENCE STANDARD JIS B.2301

Fig No. 30 - BUSHINGS (HB)



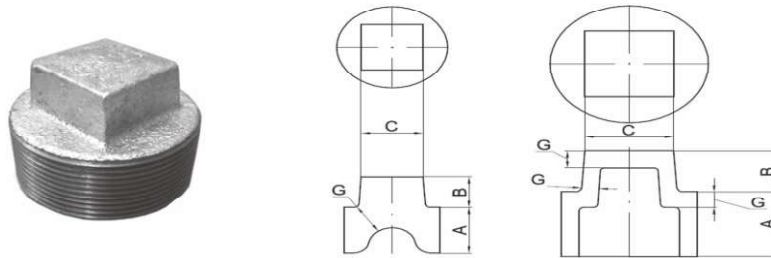
Dimension of Class 150 - (in Inch)						
SIZE	A (min)	T (min)	D (min)	C (min)		G
				Outside	Inside	
1/4 X 1/8"	0.44	0.26	0.14	0.64	-	-
3/8 X 1/4"	0.48	0.40	0.16	0.68	-	-
3/8 X 1/8"	0.48	0.25	0.16	0.68	-	-
1/2 X 3/8"	0.56	0.41	0.19	0.87	-	-
1/2 X 1/4"	0.56	0.32	0.19	0.87	-	-
1/2 X 1/8"	0.56	0.25	0.19	0.87	-	-
3/4 X 1/2"	0.63	0.53	0.22	1.15	-	-
3/4 X 3/8"	0.63	0.36	0.22	1.15	-	-
3/4 X 1/4"	0.63	0.32	0.22	1.15	-	-
3/4 X 1/8"	0.63	0.25	0.22	1.15	-	-
1 X 3/4"	0.75	0.50	0.25	1.42	-	-
1 X 1/2"	0.75	0.43	0.25	1.42	-	-
1 X 3/8"	0.75	0.36	0.30	-	1.12	-
1 X 1/4"	0.75	0.32	0.30	-	1.12	-
1 X 1/8"	0.75	0.25	0.30	-	1.12	-
1 ¼ X 1"	0.80	0.58	0.28	1.76	-	-
1 ¼ X 3/4"	0.80	0.50	0.28	1.76	-	-
1 ¼ X 1/2"	0.80	0.43	0.24	-	1.34	0.18
1 ¼ X 3/8"	0.80	0.36	0.34	-	1.12	0.18
1 ¼ X 1/4"	0.80	0.32	0.34	-	1.12	0.18
1 ½ X 1 ¼"	0.83	0.77	0.31	2.00	-	-
1 ½ X 1"	0.83	0.58	0.31	2.00	-	-
1 ½ X 3/4"	0.83	0.50	0.37	-	1.63	0.20
1 ½ X 1/2"	0.83	0.43	0.37	-	1.34	0.20
1 ½ X 3/8"	0.83	0.36	0.37	-	1.12	0.20
1 ½ X 1/4"	0.83	0.32	0.37	-	1.12	0.20
2 X 1 ½"	0.88	0.70	0.34	2.48	-	-
2 X 1 ¼"	0.88	0.67	0.34	2.48	-	-
2 X 1"	0.88	0.58	0.41	-	1.95	0.22

Fig No. 30 - BUSHINGS (HB)



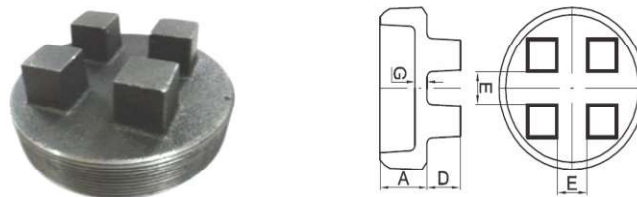
Dimension of Class 150 - (in Inch)						
SIZE	A (min)	T (min)	D (min)	C (min)		G
				Outside	Inside	
2 X 3/4"	0.88	0.50	0.41	-	1.63	0.22
2 X 1/2"	0.88	0.43	0.41	-	1.34	0.22
2 X 3/8"	0.88	0.36	0.41	-	1.12	0.22
2 X 1/4"	0.88	0.32	0.41	-	1.12	0.22
2 1/2 X 2"	1.07	0.75	0.37	2.98	-	-
2 1/2 X 1 1/2"	1.07	0.70	0.44	2.68	-	-
2 1/2 X 1 1/4"	1.07	0.67	0.44	-	2.39	0.24
2 1/2 X 1"	1.07	0.58	0.44	-	1.95	0.24
2 1/2 X 3/4"	1.07	0.50	0.44	-	1.63	0.24
2 1/2 X 1/2"	1.07	0.43	0.44	-	1.34	0.24
3 X 2 1/2"	1.13	0.92	0.40	3.86	-	-
3 X 2"	1.13	0.75	0.48	3.28	-	-
3 X 1 1/2"	1.13	0.70	0.48	-	2.68	0.26
3 X 1 1/4"	1.13	0.67	0.48	-	2.39	0.26
3 X 1"	1.13	0.58	0.48	-	1.95	0.26
3 X 3/4"	1.13	0.50	0.48	-	1.63	0.26
3 X 1/2"	1.13	0.43	0.48	-	1.34	0.26
4 X 3"	1.22	0.98	0.50	4.62	-	-
4 X 2 1/2"	1.22	0.92	0.60	-	3.86	0.31
4 X 2"	1.22	0.75	0.60	-	3.28	0.31
4 X 1 1/2"	1.22	0.70	0.60	-	2.68	0.31
4 X 1 1/4"	1.22	0.67	0.60	-	2.39	0.31
4 X 1"	1.22	0.58	0.60	-	1.95	0.31
6 X 5"	1.40	1.18	0.63	7.05	-	-
6 X 4"	1.40	1.08	0.75	-	5.79	0.43
6 X 3"	1.40	0.98	0.75	-	4.62	0.43
6 X 2 1/2"	1.40	0.92	0.75	-	3.86	0.43
6 X 2"	1.40	0.75	0.75	-	3.28	0.43

Fig No. 31A - SQUARE HEAD PLUGS (P SQUARE)



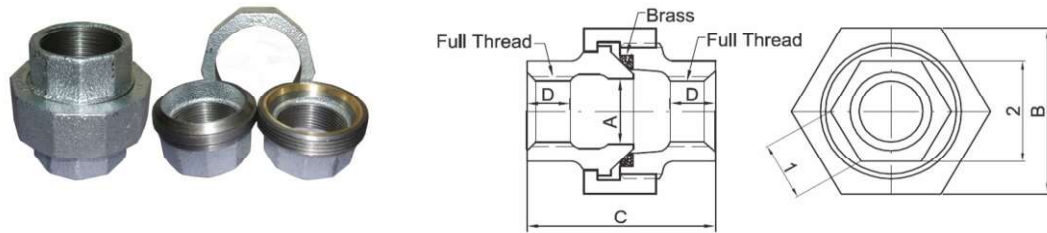
Dimension of Class 150 - (in Inch)				
SIZE	A (min)	B (min)	C	G
1/4"	0.44	0.28	3/8	-
3/8"	0.48	0.31	7/16	-
1/2"	0.56	0.38	9/16	0.16
3/4"	0.63	0.44	5/8	0.18
1"	0.75	0.50	13/16	0.20
1 1/4"	0.80	0.56	15/16	0.22
1 1/2"	0.83	0.62	1-1/8	0.24
2"	0.88	0.68	1-5/16	0.26
2 1/2"	1.07	0.74	1-1/2	0.29
3"	1.13	0.80	1-1 1/16	0.31

Fig No. 31B - SLOTTED HEAD PLUGS (P SLOTTED)



Dimension of Class 150 - (in Inch)				
SIZE	A (min)	D (min)	E (min)	G
4"	1.22	1.00	0.88	0.37
5"	1.31	1.00	0.88	0.46
6"	1.40	1.25	1.25	0.52
8"	1.57	1.38	1.50	0.66

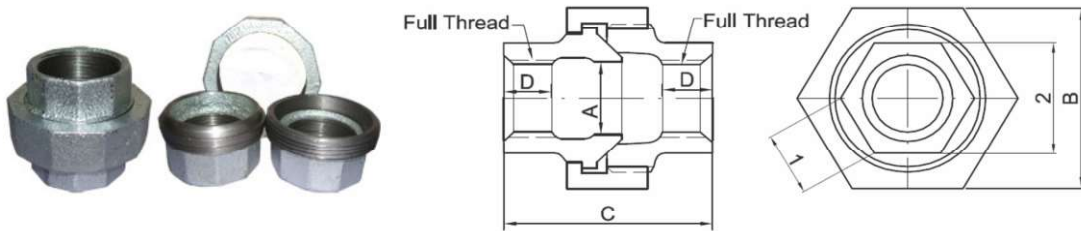
Fig No. 35B - UNIONS FEMALE CONICAL JOINT BRASS TO IRON SEAT (CU BRASS)



Dimension of Class 150 - (in Inch)							
SIZE	A (min)	B (min)	C (min)	D (min)	1	2	FEATURE
1/4"	0.36	1.10	1.44	0.40	0.41	0.72	HEXAGON
3/8"	0.52	1.26	1.61	0.41	0.51	0.88	HEXAGON
1/2"	0.61	1.45	1.72	0.53	0.44	1.07	OCTAGON
3/4"	0.80	1.71	1.94	0.55	0.53	1.27	OCTAGON
1"	1.00	2.07	2.06	0.68	0.64	1.56	OCTAGON
1¼"	1.31	2.50	2.26	0.71	0.63	1.92	DECAGON
1½"	1.55	2.82	2.41	0.72	0.71	2.20	DECAGON
2"	2.03	3.41	2.75	0.76	0.88	2.72	DECAGON
2½"	2.38	4.12	3.22	1.14	1.07	3.30	DECAGON
3"	3.00	4.75	3.50	1.20	1.28	3.90	DECAGON
4"	4.03	6.00	3.85	1.30	1.62	5.00	DECAGON

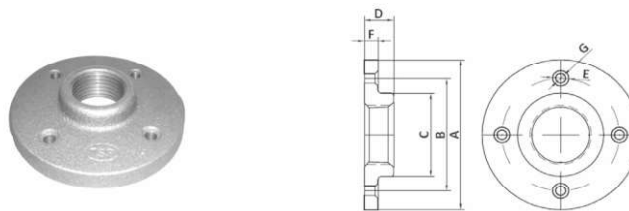
Dimension of Class 300 - (in Inch)							
SIZE	A (min)	B (min)	C (min)	D (min)	1	2	FEATURE
1/4"	0.30	1.34	1.56	0.43	0.43	0.43	HEXAGON
3/8"	0.41	1.50	1.71	0.47	0.54	0.97	HEXAGON
1/2"	0.53	1.75	1.81	0.57	0.45	1.09	OCTAGON
3/4"	0.75	2.15	2.13	0.65	0.55	1.33	OCTAGON
1"	0.94	2.48	2.30	0.75	0.56	1.72	DECAGON
1¼"	1.28	3.01	2.66	0.85	0.67	2.06	DECAGON
1½"	1.50	3.29	2.85	0.87	0.74	2.26	DECAGON
2"	1.93	3.96	3.23	1.00	0.93	2.85	DECAGON
2½"	2.32	4.72	3.31	1.16	1.13	3.46	DECAGON
3"	2.89	5.37	4.11	1.22	1.29	3.98	DECAGON

Fig No. 35C - UNION FEMALE CONICAL JOINT IRON TO IRON SEAT (CU)



Dimension of Class 150 - (in Inch)							
SIZE	A (min)	B (min)	C (min)	D (min)	1	2	FEATURE
1/4"	0.36	1.10	1.44	0.40	0,41	0,72	HEXAGON
3/8"	0.52	1.26	1.61	0.41	0,51	0,88	HEXAGON
1/2"	0.61	1.45	1.72	0.53	0,44	1,07	OCTAGON
3/4"	0.80	1.71	1.94	0.55	0,53	1,27	OCTAGON
1"	1.00	2.07	2.06	0.68	0,64	1,56	OCTAGON
1¼"	1.31	2.50	2.26	0.71	0,63	1,92	DECAGON
1½"	1.55	2.82	2.41	0.72	0,71	2,20	DECAGON
2"	2.03	3.41	2.75	0.76	0,88	2,72	DECAGON
2½"	2.38	4.12	3.22	1.14	1,07	3,30	DECAGON
3"	3.00	4.75	3.50	1.20	1,28	3,90	DECAGON
4"	4.03	6.00	3.85	1.30	1,62	5,00	DECAGON

FLOOR FLANGES



Dimension of Class 150 - (in Inch)							
SIZE	A	B	C	D	E	F	G
1/2"	3.48	2.50	1.12	0.51	0.39	0.28	0.26
3/4"	3.48	2.50	1.38	0.59	0.39	0.28	0.26
1"	4.02	3.00	1.79	0.71	0.41	0.35	0.26
1¼"	4.02	3.00	2.20	0.75	0.41	0.35	0.26
1½"	4.49	3.50	2.30	0.85	0.59	0.37	0.31
2"	5.49	4.25	2.81	0.98	0.59	0.39	0.31