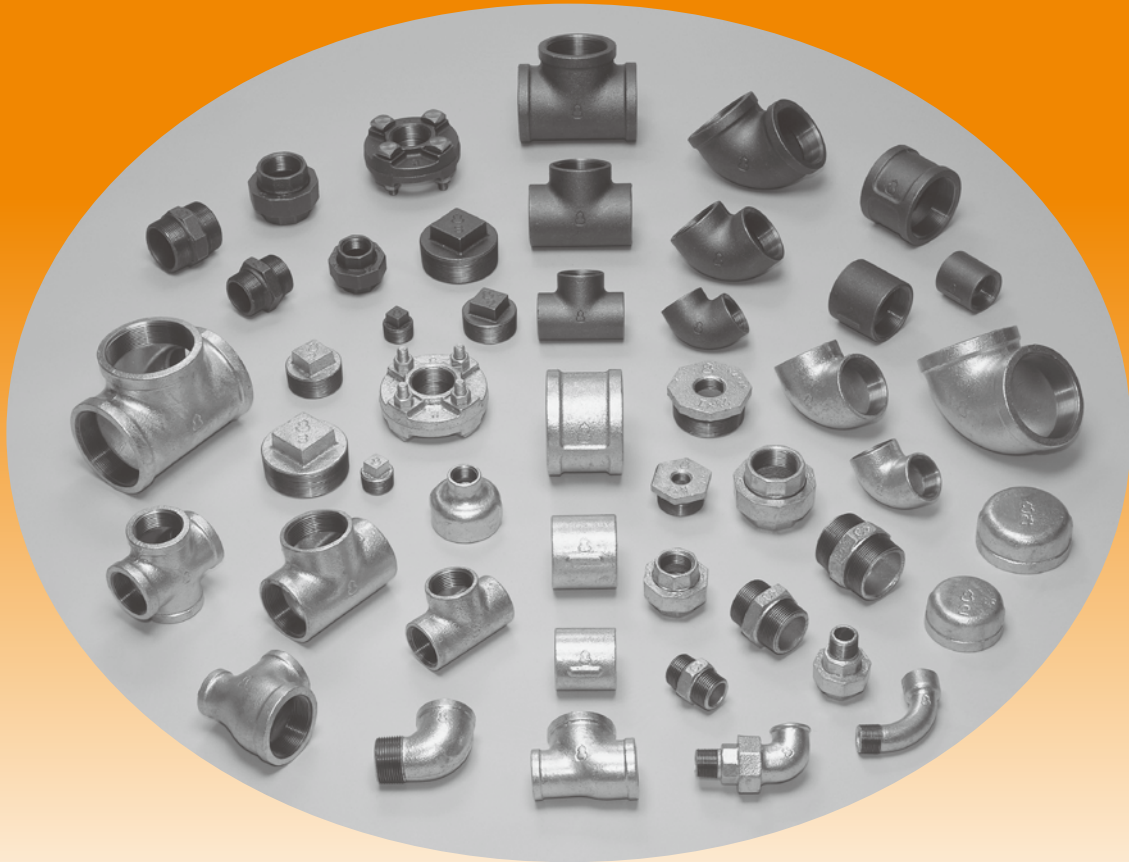




GOURD  BRAND MALLEABLE IRON PIPE FITTINGS

MALLEABLE IRON PIPE FITTINGS



Gourd  Brand malleable iron pipe fittings are manufactured by Hitachi Metals, Ltd., the leading manufacturer of malleable iron pipe fittings in the world with a century of experience.

The high quality of Gourd  Brand pipe fittings is achieved by strict quality control in every stage of the manufacturing process.

Gourd  Brand has lived up to its reputation for excellence in quality, variety, and punctual delivery, which is known the world over.

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Technical Information

1) Material

Gourd Brand pipe fittings made of black heart malleable cast iron to ASTM A197

2) Spec

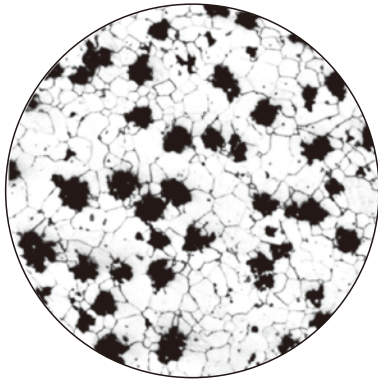
ANSI/ASME B16.3, B16.14, B16.39

3) Thread

ANSI/ASME B1.20.1(NPT), ISO7-1:1994(BS/DIN), BS21, DIN2999

4) Galvanized

ANSI/ASTM A153 / A153M - 09, BS EN ISO 1461: 2009



Microstructure of the Gourd Brand Black Heart Malleable Iron after Annealing (x100)

5) Pressure - Temperature Ratings

Maximum Working Pressure for Class 150lbs	
Temperature(°C)	Bar
-29 to 66	20.7
100	17.5
125	15.2
150	12.8
175	10.5*1

*1 Permissible for service temperature up to 186°C, reflecting the temperature of saturated steam at 10.3 bar.

General Notes;

(a) 1bar = 14.5psi = 100kPa

(b) $^{\circ}\text{C} = \frac{^{\circ}\text{F} - 32}{1.8}$

6) Tolerances

Size	Tolerance(mm)	Size	Tolerance(mm)
1/8	±0.8	1 1/2,2	±2.0
1/4	±1.0	2 1/2,3	±2.5
3/8	±1.3	4,5	±3.0
1/2,3/4	±1.5	6	±3.6
1, 1 1/4	±1.8		

Ordering Information

1) When ordering the Gourd Brand Pipe Fittings, please specify the requirements:

- Type of thread.
- Black or Galvanized.
- Fig. No.
- Name, size and quantity.

2) To minimize handling costs, Gourd Brand Pipe Fittings shall require quantities suitable for exports.

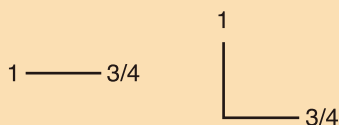
3) To avoid confusion, Gourd Brand Pipe Fittings with different diameters should be described as follows:

A Two Ways Fittings

Larger diameter comes first, and smaller second.

(Example)

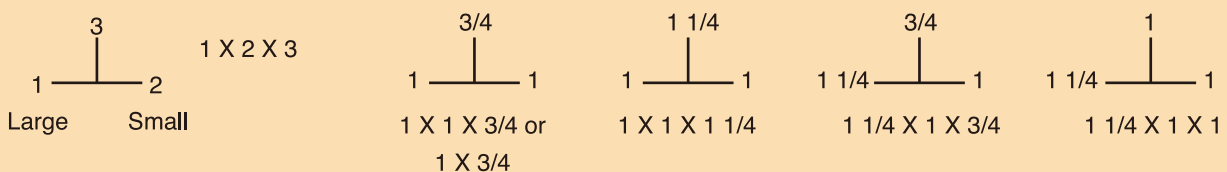
1 X 3/4



B Three Ways Fittings

Larger diameter of the two on the same line comes first and smaller second, and the remaining third.

(Example)

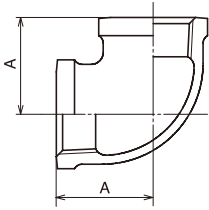


Available Items and Sizes, Standard Class 150.

Elbows 90° Banded Equal

Fig.002

BL

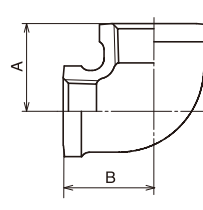


Size (Inch)	Dimension A
1/8	17.5
1/4	20.6
3/8	24.1
1/2	28.5
3/4	33.3
1	38.1
1 1/4	44.5
1 1/2	49.3
2	57.2
2 1/2	68.6
3	78.2
4	96.3
5	114.3
6	130.3

Elbows 90° Banded Reducing

Fig.002

BRL

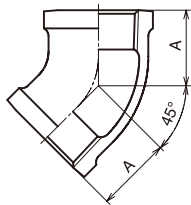


Size (Inch)	Dimensions	
	A	B
1/4X1/8	18.8	19.3
3/8X1/8	20.5	21.6
3/8X1/4	22.4	22.9
1/2X1/4	24.6	24.9
1/2X3/8	26.4	26.2
3/4X1/2	30.5	31.0
1X1/2	32.0	35.5
1X3/4	34.8	36.8
1 1/4X1/2	34.0	35.9
1 1/4X1	40.1	42.4
1 1/2X1/2 *	37.9	45.2
1 1/2X3/4	38.6	44.5
1 1/2X1	41.9	45.7
1 1/2X1 1/4	46.0	48.0
2X3/4	40.6	50.0
2X1	43.9	51.3
2X1 1/4	48.0	53.0
2X1 1/2	52.0	55.0
2 1/2X2	61.0	66.0
3X1 *	57.6	69.8
3X2	64.0	73.4

Elbows 45° Banded Equal

Fig.004

BL45

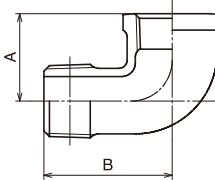


Size (Inch)	Dimensions A
1/2	22.4
3/4	24.9
1	28.5
1 1/4	32.8
1 1/2	36.3
2	42.7
2 1/2	49.5
3	55.1
4	66.3
6	87.9

Street Elbows 90° Banded Equal

Fig.006

SL

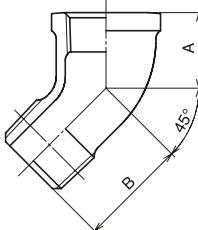


Size (Inch)	Dimensions	
	A	B
1/8	17.5	25.4
1/4	20.6	30.2
3/8	24.1	36.6
1/2	28.5	41.2
3/4	33.3	48.0
1	38.1	54.4
1 1/4	44.5	62.2
1 1/2	49.3	68.3
2	57.2	82.8
2 1/2	68.6	98.0
3	78.1	114.6
4	96.3	144.5

Street Elbows 45° Banded Equal

Fig.007

SL45

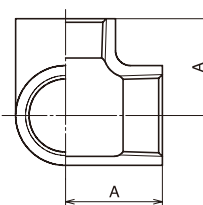


Size (Inch)	Dimensions	
	A	B
1/2	22.4	29.2
3/4	24.9	32.8
1	28.5	37.3
1 1/4	32.8	43.4
1 1/2	36.3	47.8
2	42.7	65.3

Side Outlet Elbows Banded *

Fig.009

SOL

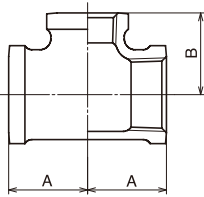


Size (Inch)	Dimensions A
1/2	29.3
3/4	34.1
1	39.3
1 1/4	45.3
1 1/2	50.6
2	58.5

Tees Banded Reducing

Fig.011

BRT

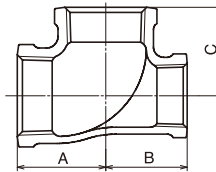


Size (Inch)	Dimensions	
	A	B
3/8X1/4	22.4	22.9
1/2X1/8 *	22.6	23.5
1/2X1/4	24.6	24.9
1/2X3/8	26.4	26.2
3/4X3/8	28.5	28.7
3/4X1/2	30.5	31.0
1X1/4	28.2	31.0
1X3/8	30.0	32.3
1X1/2	32.0	35.5
1X3/4	34.8	36.8
1 1/4X1/2	34.0	38.9
1 1/4X3/4	36.8	41.2
1 1/4X1	40.1	42.4
1 1/2X1/2	35.8	42.2
1 1/2X3/4	38.6	44.5
1 1/2X1	41.9	45.7
1 1/2X1 1/4	46.2	47.8
2X1/2	37.9	47.8
2X3/4	40.6	50.0
2X1	43.9	51.3
2X1 1/4	48.3	55.3
2X1 1/2	51.3	54.9
2 1/2X1/2 *	42.5	57.9
2 1/2X3/4	44.2	58.9
2 1/2X1	47.5	60.2
2 1/2X1 1/4	51.8	62.2
2 1/2X1 1/2	54.9	62.8
2 1/2X2	60.7	66.0
3X1/2	44.2	66.5
3X3/4	47.5	66.3
3X1	50.8	67.6
3X1 1/4	55.1	69.6
3X1 1/2	58.2	71.1
3X2	64.6	73.4
3X2 1/2	71.9	76.0
4X1 *	58.4	83.8
4X1 1/4*	62.3	87.4
4X1 1/2	63.4	84.3
4X2	69.6	86.6
4X2 1/2	77.5	88.2
4X3	83.8	91.4
6X4	104.9	125.5

Tees Banded Reducing

Fig.011

BRT



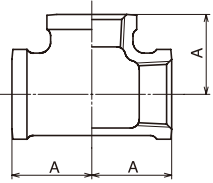
Size (Inch)	Dimensions		
	A	B	C
1/2X1/2X3/4 *	30.8	30.8	31.1
1/2X1/2X1 *	33.7	33.7	33.2
3/4X1/2X1/2	30.5	28.5	31.0
3/4X1/2X3/4	32.3	31.0	33.2
3/4X3/4X1 *	35.7	35.7	35.3
3/4X3/4X1 1/4	41.2	41.2	36.8
3/4X3/4X1 1/2 *	-	-	-
1X1/2X1/2	32.0	38.5	35.5
1X1/2X3/4	34.8	31.0	36.8
1X1/2X1	38.1	35.5	38.1
1X3/4X1/2	32.0	30.5	35.5
1X3/4X3/4	34.8	33.3	36.8
1X3/4X1	38.1	36.8	38.1
1X1X1 1/4	42.4	42.4	40.1
1X1X1 1/2	45.7	45.7	41.9
1 1/4X1/2X3/4 *	37.8	31.1	41.4
1 1/4X1/2X1	40.1	34.5	42.4
1 1/4X1/2X1 1/4	44.5	38.9	44.5
1 1/4X3/4X1 1/4	44.5	41.2	44.5
1 1/4X1X1/2	34.0	32.0	38.9
1 1/4X1X3/4	36.8	34.8	41.2
1 1/4X1X1	40.1	38.1	42.4
1 1/4X1X1 1/4	44.5	42.4	44.5
1 1/4X1 1/4X1 1/2	47.8	47.8	46.2
1 1/2X1/2X1 1/2	49.3	42.2	49.3
1 1/2X1X1	41.9	38.1	45.7
1 1/2X1X1 1/4	46.2	42.4	47.8
1 1/2X1X1 1/2	49.3	45.7	49.3
1 1/2X1 1/4X1/2	35.8	34.0	42.2
1 1/2X1 1/4X3/4	38.6	36.3	44.5
1 1/2X1 1/4X1	41.9	40.1	45.7
1 1/2X1 1/4X1 1/4	46.2	44.5	47.8
1 1/2X1 1/4X1 1/2	49.3	47.8	49.3
1 1/2X1 1/2X2	54.9	54.9	51.3
2X1/2X2	57.2	47.8	57.2
2X3/4X2	57.2	50.0	57.2
2X1X2	57.2	51.3	57.2
2X1 1/4X1 *	45.2	42.0	53.1
2X1 1/4X1 1/4	48.3	44.5	53.3
2X1 1/2X3/4 *	42.3	38.9	51.7
2X1 1/2X1	43.9	41.9	51.3
2X1 1/2X1 1/4	48.3	46.2	53.3
2X1 1/2X1 1/2	51.3	49.3	54.9
2 1/2X2X1 1/2	56.4	53.4	63.0
2 1/2X2X2	60.7	57.2	66.0
3X2X2	65.5	57.9	74.6

*Item based on our own specification.

Available Items and Sizes, Standard Class 150.

Tees Banded Equal Fig.011

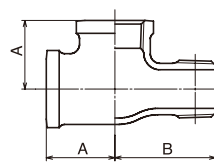
BT



Size (Inch)	Dimension A
1/8	17.5
1/4	20.6
3/8	24.1
1/2	28.5
3/4	33.3
1	38.1
1 1/4	44.5
1 1/2	49.3
2	57.2
2 1/2	68.6
3	78.2
4	96.3
5	114.3
6	130.3

Service Tees Banded Equal Fig.012

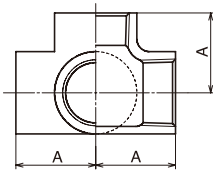
ST



Size (Inch)	Dimension	
	A	B
1/2	28.5	41.4
3/4	33.3	48.0
1	38.1	54.4
1 1/4	44.5	62.2
1 1/2	49.3	68.3
2	57.2	82.8

Side Outlet Tees Plain * Fig.013

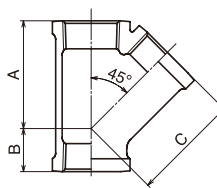
SOT



Size (Inch)	Dimension A
1/2	27.7
3/4	32.8
1	39.0
1 1/4	47.4
1 1/2	49.4
2	58.4

Y Baranches 45° Banded Fig.014

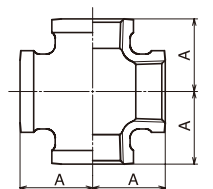
BY45



Size (Inch)	Dimension		
	A	B	C
1/2	45.4	15.5	43.4
3/4	52.1	18.5	52.1
1	61.7	21.6	61.7
1 1/4	74.2	25.9	74.2
1 1/2	83.5	29.9	83.5
2	99.8	37.1	99.8

Cross Banded Equal Fig.016

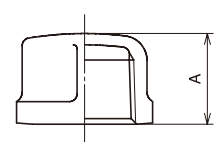
BCR



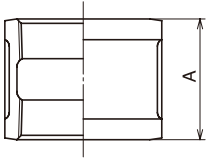
Size (Inch)	Dimension A
1/2	28.5
3/4	33.3
1	38.1
1 1/4	44.5
1 1/2	49.3
2	57.2
2 1/2	68.6
3	78.2
4	96.3

Caps Banded Fig.018

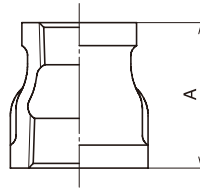
BCA



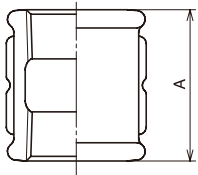
Size (Inch)	Dimension A
1/8	13.5
1/4	16.0
3/8	18.8
1/2	22.1
3/4	24.6
1	29.5
1 1/4	32.5
1 1/2	33.8
2	36.8
2 1/2	43.2
3	45.7
4	52.8

Sockets Banded Equal With Ribs
Fig.020
BS


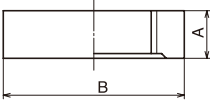
Size (Inch)	Dimension A
1/8	24.2
1/4	26.9
3/8	29.5
1/2	34.0
3/4	38.6
1	42.4
1 1/4	49.0
1 1/2	54.6
2	64.3
2 1/2	73.2
3	80.8
4	93.7
5 *	97.0
6 *	107.3

Reducing Sockets Banded
Fig.022
BRS


Size (Inch)	Dimension A
1/4X1/8	25.4
3/8X1/8	28.7
3/8X1/4	28.7
1/2X1/8	31.8
1/2X1/4	31.8
1/2X3/8	31.8
3/4X3/8	38.6
3/4X1/2	36.6
1X3/8	42.9
1X1/2	42.9
1X3/4	42.9
1 1/4X1/2	52.3
1 1/4X3/4	52.3
1 1/4X1	52.3
1 1/2X1/2	58.7
1 1/2X3/4	58.7
1 1/2X1	58.7
1 1/2X1 1/4	58.7
2X1/2	71.4
2X3/4	71.4
2X1	71.4
2X1 1/4	71.4
2X1 1/2	71.4
2 1/2X1	82.6
2 1/2X1 1/4	82.6
2 1/2X1 1/2	82.6
2 1/2X2	82.6
3X3/4	93.7
3X1	93.7
3X1 1/4	93.7
3X1 1/2	93.7
3X2	93.7
3X2 1/2	93.7
4X2	111.3
4X2 1/2	111.3
4X3	111.3
6X4 *	107.8

Sockets Right & Left Hand Threads With *
Fig.020A
EBS


Size (Inch)	Dimension A
3/8	31.2
1/2	36.0
3/4	40.9
1	46.4
1 1/4	51.2
1 1/2	56.2
2	60.9

Locknuts
Fig.024
LN


Size (Inch)	Dimension	
	A	B
1/2	7.9	30.0
3/4	8.6	36.3
1	9.7	44.5
1 1/4	10.7	53.3
1 1/2	11.9	59.7
2	13.5	73.2
2 1/2	15.0	88.9
3	17.0	108.5
4	20.3	136.7

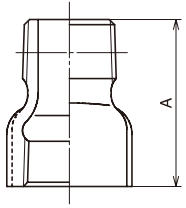
*Item based on our own specification.

Available Items and Sizes, Standard Class 150.

Extension Pieces Banded *

Fig.025

X

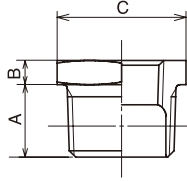


Size (Inch)	Dimensions A
3/8	35.2
1/2	43.2
3/4	49.7
1	56.8
1 1/4	62.3
1 1/2	66.9
2	72.3

Bushings

Fig.026

BU

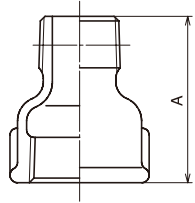


Size (Inch)	Dimensions		
	A	B	C
1/4X1/8	11.2	3.6	16.3
3/8X1/8	12.2	4.1	17.3
3/8X1/4	12.2	4.1	17.3
1/2X1/8	14.2	4.8	22.1
1/2X1/4	14.2	4.8	22.1
1/2X3/8	14.2	4.8	22.1
3/4X1/8	16.0	5.6	29.2
3/4X1/4	16.0	5.6	29.2
3/4X3/8	16.0	5.6	29.2
3/4X1/2	16.0	5.6	29.2
1X1/8 *	20.2	7.5	39.0
1X1/4 *	20.2	7.5	39.0
1X3/8 *	22.5	7.7	39.0
1X1/2	19.1	6.4	36.1
1X3/4	19.1	6.4	36.1
1 1/4X1/2 *	22.1	9.1	47.5
1 1/4X3/4	20.3	7.1	44.7
1 1/4X1	20.3	7.1	44.7
1 1/2X3/8 *	25.3	10.0	55.8
1 1/2X1/2 *	25.5	10.0	55.8
1 1/2X3/4 *	25.7	10.0	55.8
1 1/2X1	21.1	7.9	50.8
1 1/2X1 1/4	21.1	7.9	50.8
2X3/8 *	27.6	11.8	65.0
2X1/2 *	27.2	12.2	65.2
2X3/4 *	27.3	11.9	64.8
2X1 *	27.3	11.7	64.3
2X1 1/4	22.4	8.6	63.0
2X1 1/2	22.4	8.6	63.0
2 1/2X3/4 *	31.1	11.6	82.1
2 1/2X1 *	31.1	11.6	82.6
2 1/2X1 1/4 *	30.9	11.0	82.1
2 1/2X1 1/2	27.2	11.2	68.1
2 1/2X2	27.2	9.4	75.7
3X1 *	35.0	12.7	98.0
3X1 1/4 *	35.0	12.7	98.0
3X1 1/2 *	35.0	12.7	98.0
3X2	28.7	12.2	83.3
3X2 1/2	28.7	10.2	98.0
4X1 *	39.7	15.1	123.0
4X1 1/4 *	40.0	14.8	123.3
4X1 1/2 *	40.0	15.4	123.3
4X2 *	40.0	14.9	123.0
4X2 1/2 *	40.6	14.5	123.3
4X3	31.0	12.7	117.3
5X2 *	58.6	15.1	149.0
5X3 *	58.6	15.9	147.5
5X4	33.3	12.7	147.1
6X3 *	66.4	20.0	177.5
6X4 *	66.4	18.6	178.3
6X5	35.6	16.0	179.1

Sokets Reducing Male & Female *

Fig.025A

MFS

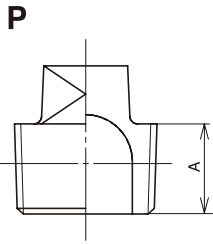


Size (Inch)	Dimensions A
1/2X3/8	43.6
3/4X1/2	49.3
1X3/4	56.5
1 1/4X1/2	59.4
1 1/4X1	61.5
1 1/2X3/4	61.6
1 1/2X1	61.8
1 1/2X1 1/4	64.6
2X1	69.9
2X1 1/4	70.1
2X1 1/2	71.6



Plugs Plain

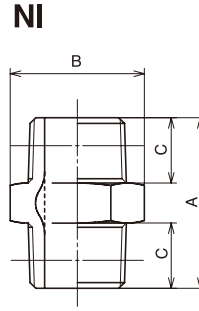
Fig.028



Size (Inch)	Dimensions	
	A	
1/4	11.2	
3/8	12.2	
1/2	14.2	
3/4	16.0	
1	19.1	
1 1/4	20.3	
1 1/2	21.1	
2	22.4	
2 1/2	27.2	
3	28.7	
4 *	31.0	

Nipples Equal *

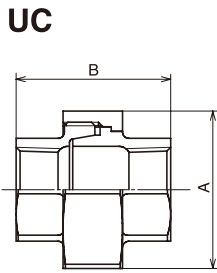
Fig.032



Size (Inch)	Dimension		
	A	B	C
1/8	32.0	14.0	11.0
1/4	34.0	17.0	12.0
3/8	36.0	21.0	13.0
1/2	45.0	26.0	18.5
3/4	48.0	31.0	19.5
1	53.0	38.0	21.5
1 1/4	56.0	46.0	23.0
1 1/2	60.0	54.0	24.0
2	70.0	69.0	29.0
2 1/2	76.0	80.0	29.5
3	84.0	95.0	33.5
4	95.0	120.0	38.5
5	110.0	145.0	44.0
6	116.0	170.0	46.0

Unions Taper Seat Iron to Iron Female *

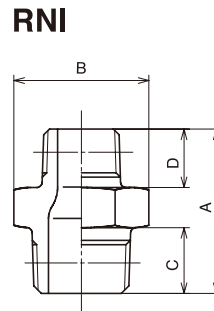
Fig.031A



Size (Inch)	Dimension	
	A	B
1/4	31.0	40.0
3/8	37.0	43.0
1/2	42.0	46.5
3/4	49.0	50.5
1	59.0	57.0
1 1/4	69.0	64.0
1 1/2	78.0	69.5
2	93.0	76.5
2 1/2	112.0	85.0
3	127.0	94.0
4	158.0	113.0

Nipples Reducing *

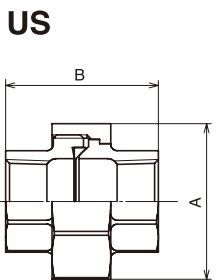
Fig.032A



Size (Inch)	Dimension			
	A	B	C	D
3/8X1/4	38.0	21.0	14.5	13.5
1/2X1/4	42.5	26.0	18.5	14.0
1/2X3/8	43.0	26.0	18.5	14.5
3/4X3/8	43.2	32.3	18.7	13.5
3/4X1/2	47.0	32.0	19.0	17.0
1X1/2	52.0	38.0	22.0	18.0
1X3/4	53.0	38.0	22.0	19.0
1 1/4X3/4	56.0	46.0	23.5	20.5
1 1/4X1/2	52.0	46.0	22.0	18.0
1 1/4X1	59.0	46.0	23.0	24.0
1 1/2X1/2	63.0	54.0	23.0	20.0
1 1/2X1	60.0	54.0	23.0	24.0
1 1/2X1 1/4	68.0	54.0	23.0	23.0
2X1	68.0	63.0	27.5	25.0
2X1 1/4	70.5	63.0	27.5	25.0
2X1 1/2	70.0	63.0	27.5	27.0
2 1/2X1 1/2	68.0	80.0	28.0	23.0
2 1/2X2	70.0	80.0	28.0	25.0
3X2	86.0	95.0	40.0	29.0
3X2 1/2	77.0	95.0	32.0	28.0
4X2	80.0	120.0	37.0	25.0
4X3	87.0	120.0	37.0	32.0

Unions Brass to Iron Seat Female

Fig.031B



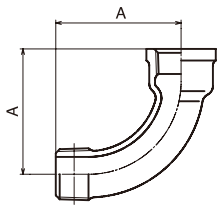
Size (Inch)	Dimension	
	A(min.)	B(min.)
1/2	37.0	43.5
3/4	43.5	49.5
1	52.5	52.5
1 1/4	63.5	57.5
1 1/2	71.5	61.0
2	86.5	70.0
2 1/2	104.5	82.0
3	120.5	89.0
4	152.5	98.0

*Item based on our own specification.

Available Items and Sizes, Standard Class 150.

Bends 90° Bended Male & Female * Fig.033B

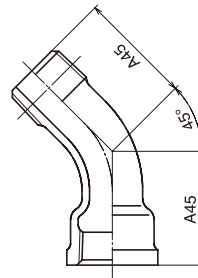
BMBE



Size (Inch)	Dimensions A
3/8	45.3
1/2	51.8
3/4	65.8
1	82.6
1 1/4	101.2
1 1/2	115.9
2	141.5
2 1/2	173.0
3	206.1
4	260.0

Bends 45° Bended Male & Female * Fig.033C

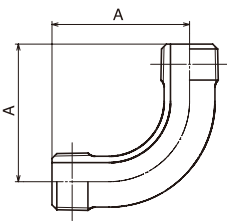
BMBE45



Size (Inch)	Dimensions A
1/2	38.7
3/4	45.4
1	55.8
1 1/4	63.5
1 1/2	70.4
2	86.3
2 1/2	100.0
3	115.0
4	145.0

Bends 90° Male * Fig.035

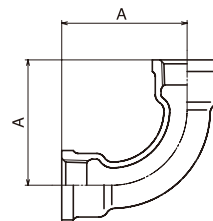
OBE



Size (Inch)	Dimension A
1/2	52.4
3/4	66.1

Bends 90° Bended Female * Fig.036B

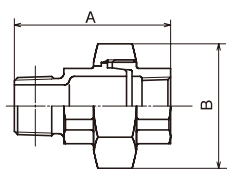
BIBE



Size (Inch)	Dimension A
3/8	44.0
1/2	52.0
3/4	65.0
1	82.6
1 1/4	100.7
1 1/2	115.9
2	140.0
2 1/2	171.5
3	205.0
4	260.0

Unions Taper Seat Male Female * Fig.040A

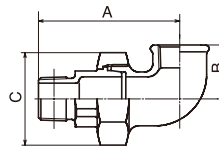
MUC



Size (Inch)	Dimension	
	A	B
3/8	57.5	37.0
1/2	65.0	42.0
3/4	71.5	49.0
1	80.8	59.0
1 1/4	90.8	69.0
1 1/2	96.5	78.0
2	107.5	93.0
2 1/2	119.8	112.0
3	131.7	127.0

Union Elbows Taper Seat Male & Female * Fig.043A

MULC

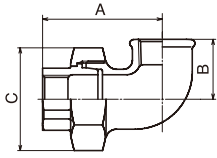


Size (Inch)	Dimension		
	A	B	C
1/2	78.5	27.0	42.0
3/4	87.0	33.0	49.0
1	98.3	38.0	59.0
1 1/4	110.3	45.0	69.0
1 1/2	122.0	50.0	78.0
2	136.5	58.0	93.0

Unions Elbow Taper Seat Female *

Fig.040A

ULC

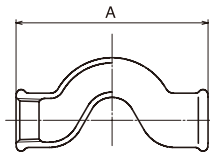


Size (Inch)	Dimension		
	A	B	C
1/2	60.5	27.0	42.0
3/4	66.5	33.0	49.0
1	74.8	38.0	59.0
1 1/4	83.8	45.0	69.0
1 1/2	95.5	50.0	78.0
2	106.0	58.0	93.0

Crossovers, Equal *

Fig.050

NOS



Size (Inch)	Dimension A
1/2	93.2
3/4	112.8
1	141.6

*Item based on our own specification.

Outline for Standard Class 300.

Pressure - Temperature Ratings

Maximum Working Pressure for Class 300lbs, Bar				
Temperature(°C)	1/4 - 1	1 1/4 - 2	2 1/2 - 3	Unions
-29 to 66	137.9	103.4	69.0	41.4
100	119.6	90.5	61.5	37.5
125	106.4	91.1	56.1	34.6
150	93.1	71.8	50.7	31.7
175	79.9	62.5	45.2	28.9
200	66.6	53.1	39.8	26.0
225	53.4	43.8	34.3	23.1
250	40.1	34.5	28.9	20.3
275	26.9	25.2	23.4	17.4
288	20.7	20.7	20.7	15.9

Available items

Fig.	Name and abbreviation	Size (Inch)
650	90° Elbows	HBL 1/2 - 5
652	45° Elbows	HBL45 1/2 - 5
653	90° Street Elbows	HSL 1/2 - 3
654	Tees	HBT 1/2 - 4
655	Reducing Tees	HBRT 3/4X1/2-2X1 1/2
656	Sockets	HBS 1/2 - 3
657	Reducing Sockets	HBRS 3/4X1/2-2X1 1/2
658	Caps	HBCA 1/2 - 3
659	Bushing	HBU 3/4X1/2-4X3
661	Union Brass to Iron Seat Female	HUS 1/2 - 3

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