

The Trust Worthy Name



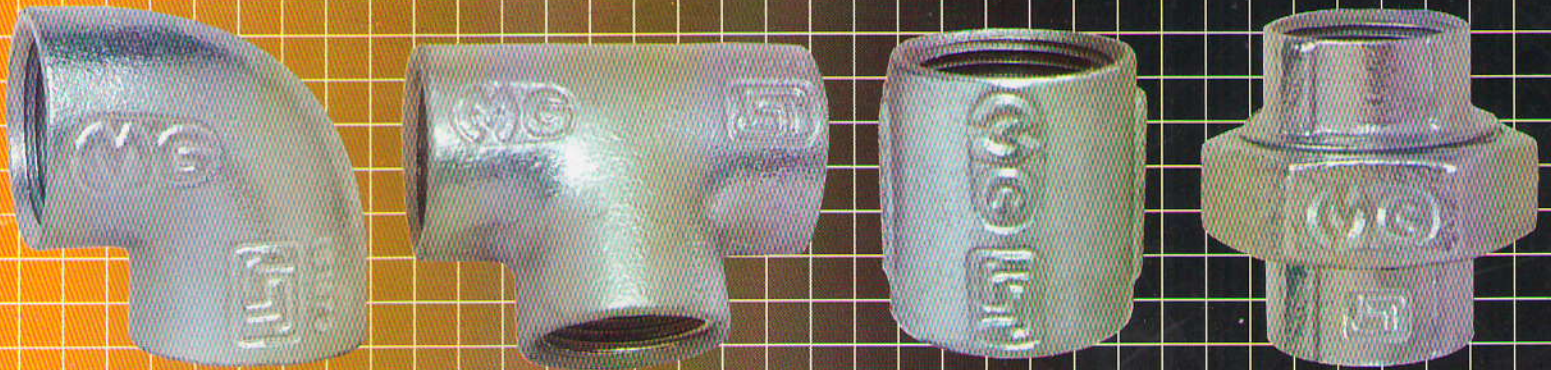
MALLEABLE CAST IRON

IS:1879



MARKED

PIPE FITTINGS



catalogue



AN ISO 9001:2000 CERTIFIED CO.



IS:1879
MARKED

PIPE FITTINGS

*The Trust
Worthy Name*

Motives

SERVICE

QUALITY

EXCELLENCE

RELIABILITY

INNOVATION

COMMITMENT

COMPETITIVENESS



IS:1879
MARKED

PIPE FITTINGS

*The Trust
Worthy Name*



Elbow A1
90° Female, Equal



Elbow A1
90° Female, Reducing



Tee B1
90° Female, Equal



TEE B1
90° Female, Reducing

INTRODUCTION

M.G. Industries (Regd.) a partnership concern was established in 1989 by young, qualified, experienced & energetic persons for the manufacture of malleable cast iron galvanized pipe fittings confirming to the Bureau of Indian Standard specifications as per IS:1879/1987 part (I to X) with the brand name '**MG**', a registered trade mark. The firm has begun its journey with a meager production and very soon become one of the leading manufacturers in the field of malleable iron galvanized & black pipe fittings & all types of malleable castings with the sales network through most reliable distributors/dealers through-out India. Customer's satisfaction is achieved by keeping constant check on the quality and its maintenance at every stage, right from purchase of raw material to final packing process. The cost of production is kept as low as possible and advantage is transferred to the customers in terms of highly competitive prices. We are always keen to develop new products and follow our policy of innovativeness to meet ever changing demands of the customers.

However in achieving our goal, we have not forgotten our **SOCIAL OBLIGATIONS :-**

No child labour

No Forced labour

Clean working conditions

Safety training to all workers

Environment friendly packaging

Installation of pollution control devices.



EXTRA ZINC COATING TO AVOID RUST



IS:1879
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PIPE FITTINGS

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SOCKET M2
180° Female, Ribbed



SOCKET M2
180° Female, Reducing, Ribbed



Union U1
180° Flat Seat, Female, Equal



Hex. Nipple N8
180° Male, Equal

FEATURES

'MG' ISI PIPE FITTINGS

'MG' Brand pipe fittings are being installed by Govt., Semi Govt., Commercial and domestic piping systems throughout India and enjoy a reputation of being the best in quality. This reputation has been made possible by firm's commitment of producing very high quality pipe fittings and the satisfaction & trust shown by our dealers. We manufacture the 'Best Quality' pipe fittings which confirms by this fact that we have been granted a licence to use **ISI Mark** on 'MG' brand pipe fittings by the bureau of Indian Standards. We are also on the approved list of

"MUNICIPAL CORPORATION OF GREATER MUMBAI" &
"MUNICIPAL CORPORATION OF PUNE"
for the purchase of pipe fittings.

It is further heartening to quote that we also have been certified as an ISO 9001:2000 Co. 'MG' brand pipe fittings are subject to rigid inspection at various stages of manufacturing to ensure their reliability. We manufacture the pipe fittings with British, Indian & American standards with parallel & taper pipe threads as per customer's requirements.



visit us at www.mgiindustry.com



PERFECT ALIGNMENT



IS:1879
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PIPE FITTINGS

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Cross C 1
90° Female, Equal



Side Outlet Elbow(3-Way) Za1
90° Female, Equal



Side Outlet Tee (4-Way) Za4
90° Female, Equal



**Long Sweep Bend
(Short Bend G-4)**
90° Male & Female, Equal

'MG' BRAND RANGE & QUALITY

The firm is manufacturing complete range of pipe fittings being used for Water, Air & Gas Line installation with a minimum working pressure of 300 lbs/inch² or 21.42 kgf/cm² hydraulically. Our pipe fittings withstand minimum working pressure of 2.1 mpa equivalent to 21 bar in case of water and 1.05 mpa equivalent to 10.5 bar in case of air. "MG" Brand pipe fittings are normally manufactured from 1/4" to 6" sizes.

THE RANGE IS AS UNDER:-

- (1) ELBOW (A1)
- (2) REDUCING ELBOW (A1)
- (3) TEE (B1)
- (4) REDUCING TEE (B1)
- (5) SOCKET (M2)
- (6) REDUCING SOCKET (M2)
- (7) UNION (U1) With Rubber Washer
- (8) HEX. NIPPLE (N8)
- (9) REDUCING HEX. NIPPLE (N8)
- (10) CROSS (C1)
- (11) SIDE OUTLET ELBOW (3WAY) (Za1)
- (12) SIDE OUTLET TEE (4WAY) (Za4)
- (13) SHORT BEND (G4)
- (14) TANK NIPPLE
- (15) BACKNUT (P4)
- (16) PLUG (T8)
- (17) BUSHING (N4)



INNOVATIVENESS FOR NEW PRODUCTS



PIPE FITTINGS

*The Trust
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Tank Nipple
Male Equal



Back Nut P4
Female Equal



Plug T8
Male, Equal



Bushing N4
180° Male & Female, Reducing

'MG' Brand pipe fittings are manufactured under strict quality control by a team of highly qualified & experienced engineers, equipped with most up-to-date machinery and sophisticated laboratories. The material is manufactured as per dimensions laid down by Bureau of Indian Standards with their latest amendments which are as under:-

(I) DIMENSIONS :

Malleable Cast Iron pipe fittings as per IS : 1879-1987 (Part I to X)

(II) FINISH :

Hot dip galvanized as per IS : 2633-1986, IS : 6745-1972 and IS 4759-1996. Minimum Zinc coating 610gm/m²

(III) MATERIAL SPECIFICATIONS :

Black heart malleable cast iron as per IS : 14329-1995 Grade BM300

(IV) THREADS

As per IS : 554-1999 both parallel & taper.

To ensure high quality & correctness of raw material as well as semi finished material, various tests are performed. The following chart shows Chemical Composition & Physical Properties of 'MG' Brand pipe fittings.

Chemical Composition

CARBON (C): 2.5% to 2.9%

SILICON (Si) : 0.7% to 1.0%

MANGANESE (Mn): 0.2% to 0.4%

SULPHUR (S) : 0.06% to 0.1%

PHOSPHORUS (P) : According to grade required by the customer or BM300

Physical Properties

BRINELL HARDNESS: 150 BHN Maximum.

TENSILE STRENGTH : 33 to 36 kg/mm² or 325 to 350 mpa

PERCENTAGE ELONGATION : 6 to 12%



HIGH CLASS MALLEABILITY TO AVOID CHANCES OF CRACKING

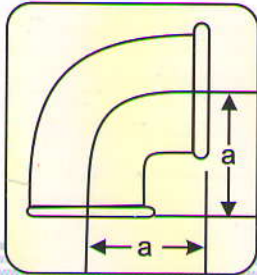


IS:1879
MARKED

PIPE FITTINGS

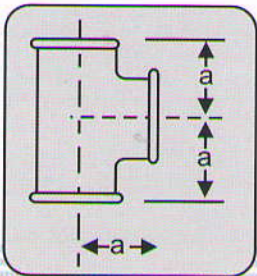
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Size, Designation, Dimensions And Mass Of Malleable Pipe Fittings As Per IS : 1879-1987.



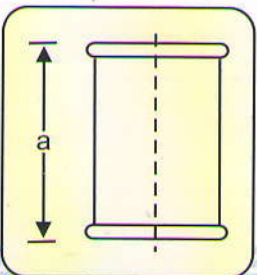
**ELBOW
A1**

Inches	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
mm	8	10	15	20	25	32	40	50	65	80	100	125	150
a	21	25	28	33	38	45	50	58	69	78	96	115	131
W	4.5	6.1	9.1	13.7	20.9	33.2	42.7	65.2	117.0	153.0	270.0	480.0	660.0



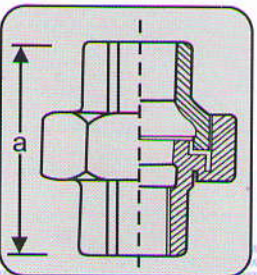
**TEE
B 1**

Inches	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
mm	8	10	15	20	25	32	40	50	65	80	100	125	150
a	21	25	28	33	38	45	50	58	69	78	96	115	131
W	6.5	8.5	13.0	18.7	28.2	43.5	57.0	88.0	155.0	210.0	345.0	640.0	780.0



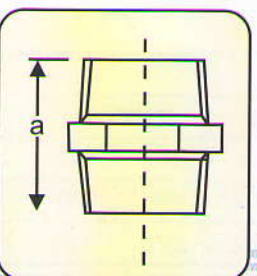
**SOCKET
M 2**

Inches	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
mm	8	10	15	20	25	32	40	50	65	80	100	125	150
a	27	30	36	39	45	50	55	65	71	78	94	109	120
W	3.0	4.1	6.1	9.3	13.3	20.6	26.8	44.1	73.5	103.0	153.0	241.0	340.0



**UNION
U 1**

Inches	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
mm	8	10	15	20	25	32	40	50	65	80	100	125	150
a	42	45	48	52	58	65	70	78	85	95	110	135	150
W	8.10	11.4	19.1	26.7	34.8	58.2	73.3	109.0	176.0	244.0	390.0	795.0	1100.0

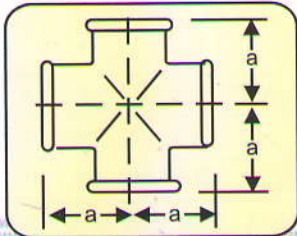


**NIPPLE
N 8**

Inches	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
mm	8	10	15	20	25	32	40	50	65	80	100	125	150
a	36	38	44	47	53	57	59	68	75	83	95	--	--
W	2.9	4.0	6.0	8.7	14.0	22.3	26.4	40.3	61.4	90.5	148.0	--	--

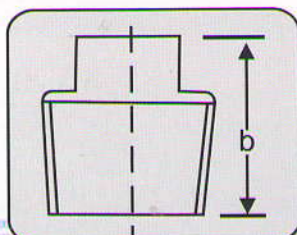
W : Nominal Mass - Kg/100 pcs

Size, Designation, Dimensions And Mass Of Malleable Pipe Fittings As Per Is : 1879-1987.



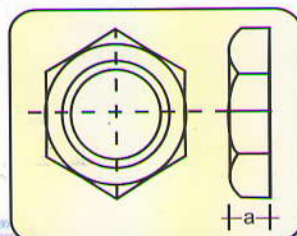
**CROSS
C1**

Inches	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
mm	15	20	25	32	40	50	65	80	100
a	28	33	38	45	50	58	69	78	96
w	14.5	22.4	32.8	51.0	62.0	100.0	170.0	240.0	380.00



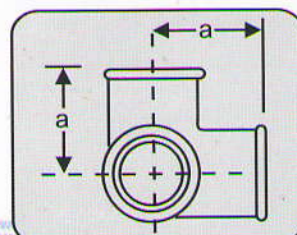
**PLUG
T8**

Inches	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
mm	15	20	25	32	40	50	65	80	100
b	18	20	23	29	30	36	39	44	58



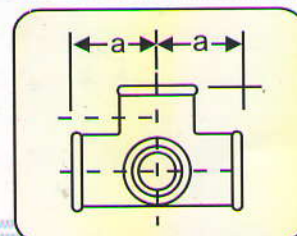
**BACK NUT
(CHECKNUT)
P 4**

Inches	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
mm	15	20	25	32	40	50	65	80	100
a	8	9	10	11	12	13	16	19	21
w	3.4	4.3	8.3	11.9	13.2	22.6	41.8	53.0	85.0



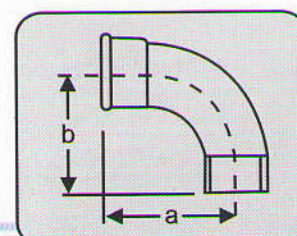
**SIDE OUTLET
(3- WAY ELBOW)
Za1**

Inches	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
mm	15	20	25	32	40	50	65	80	100
a	28	33	38	45	50	58	69	78	96
w	12.4	19.0	25.0	45.2	55.9	80.0



**SIDE OUTLET
TEE
(4-WAY TEE)
Za4**

Inches	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
mm	15	20	25	32	40	50	65	80	100
a	28	33	38	45	50	58	69	78	96
w	14.7	23.4	32.6	51.3	66.0	99.0



**LONG SWEEP BEND
(SHORT BEND)
MALE/FEMALE
G 4**

Inches	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
mm	15	20	25	32	40	50	65	80	100
a	55	69	85	105	116	140	176	205	260
b	48	60	75	95	105	130	165	190	245
w	12.3	21.3	36.1	57.7	77.5	131.0	221.0	322.0	565.0

W : Nominal Mass - Kg/100 pcs

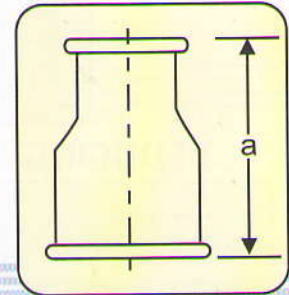
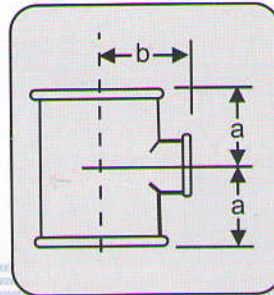
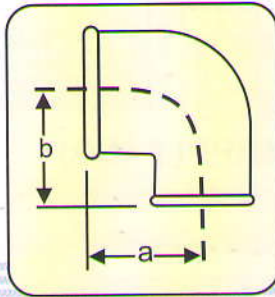


IS:1879
MARKED

PIPE FITTINGS

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Size, Designation, Dimensions And Mass Of Malleable Pipe Fittings As Per Is : 1879-1987.



REDUCING ELBOW A 1

Inches	mm	a	b	wt.
3/4x1/2	20x15	30	31	11.9
1x1/2	25x15	32	34	15.7
1x3/4	25x20	35	36	18.0
1-1/4x1/2	32x15	34	39	22.0
1-1/4x3/4	32x20	36	41	22.5
1-1/4x1	32x25	40	42	28.0
1-1/2x1/2	40x15	36	42	25.0
1-1/2x3/4	40x20	39	44	30.0
1-1/2x1	40x25	42	46	32.0
1-1/2x1-1/4	40x32	46	48	38.0
2x1/2	50x15	38	48	42.0
2x3/4	50x20	41	50	47.0
2x1	50x25	44	51	52.0
2x1-1/4	50x32	48	53	55.0
2x1-1/2	50x40	52	55	52.0
2-1/2x1/2	65x15	41	57	75.0
2-1/2x3/4	65x20	44	59	82.0
2-1/2x1	65x25	47	60	90.0
2-1/2x1-1/4	65x32	52	62	92.0
2-1/2x1-1/2	65x40	55	63	95.0
2-1/2x2	65x50	61	66	100.0
3x1/2	80x15	45	64	115.0
3x3/4	80x20	47	66	120.0
3x1	80x25	51	67	125.0
3x1-1/4	80x32	55	70	130.0
3x1-1/2	80x40	57	71	140.0
3x2	80x50	63	73	145.0
3x2-1/2	80x65	71	76	150.0
4x1/2	100x15	49	77	160.0
4x3/4	100x20	53	79	170.0
4x1	100x25	56	82	190.0
4x1-1/4	100x32	61	83	210.0
4x1-1/2	100x40	64	85	220.0
4x2	100x50	68	86	230.0
4x2-1/2	100x65	76	89	235.0
4x3	100x80	85	93	240.0

REDUCING TEE B 1

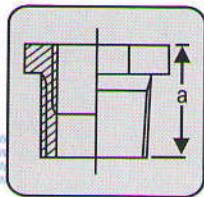
Inches	mm	a	b	w
3/4x1/2x3/4	20x15x20	30	31	16.2
1x1/2x1	25x15x25	32	34	22.6
1x3/4x1	25x20x25	35	36	24.2
1-1/4x1/2x1-1/4	32x15x32	34	38	31.4
1-1/4x3/4x1-1/4	32x20x32	36	42	32.3
1x1-1/4x1x1-1/4	32x25x32	40	42	36.8
1-1/2x1/2x1-1/2	40x15x40	36	42	36.8
1-1/2x3/4x1-1/2	40x20x40	38	44	39.0
1-1/2x1x1-1/2	40x25x40	42	46	42.6
1-1/2x1-1/4x1-1/2	40x32x40	46	48	49.5
2x1/2x2	50x15x50	38	48	51.0
2x3/4x2	50x20x50	40	50	55.0
2x1x2	50x25x50	44	52	60.0
2x1-1/4x2	50x32x50	48	54	68.0
2x1-1/2x2	50x40x50	52	55	72.0
2-1/2x1/2x2-1/2	65x15x65	41	57	85.0
2-1/2x3/4x2-1/2	65x20x65	44	59	90.0
2-1/2x1x2-1/2	65x25x65	47	60	92.0
2-1/2x1-1/4x2-1/2	65x32x65	52	62	100.0
2-1/2x1-1/2x2-1/2	65x40x65	55	63	112.0
2-1/2x2x2-1/2	65x50x65	61	66	122.0
3x1/2x3	80x15x80	45	64	118.0
3x3/4x3	80x20x80	47	66	120.0
3x1x3	80x25x80	51	67	124.0
3x1-1/4x3	80x32x80	55	70	134.0
3x1-1/2x3	80x40x80	58	71	140.0
3x2x3	80x50x80	64	73	158.0
3x2-1/2x3	80x65x80	72	76	183.0
4x1/2x4	100x15x100	50	78	200.0
4x3/4x4	100x20x100	56	80	205.0
4x1x4	100x25x100	58	81	210.0
4x1-1/4x4	100x32x100	58	82	220.0
4x1-1/2x4	100x40x100	64	85	225.0
4x2x4	100x50x100	70	86	230.0
4x2-1/2x4	100x65x100	76	90	260.0
4x3x4	100x80x100	84	92	280.0

REDUCING SOCKET M 2

Inches	mm	a	w
3/4x1/2	20x15	39	8.9
1x1/2	25x15	45	12.8
1x3/4	25x20	45	13.2
1-1/4x1/2	32x15	50	18.9
1-1/4x3/4	32x20	50	19.1
1-1/4x1	32x25	50	21.2
1-1/2x1/2	40x15	55	23.6
1-1/2x3/4	40x20	55	24.0
1-1/2x1	40x25	55	24.8
1-1/2x1-1/4	40x32	55	25.4
2x1/2	50x15	65	38.0
2x3/4	50x20	65	37.4
2x1	50x25	65	37.3
2x1-1/4	50x32	65	38.2
2x1-1/2	50x40	65	38.5
2-1/2x1/2	65x15	71	61.0
2-1/2x3/4	65x20	71	61.0
2-1/2x1	65x25	71	65.0
2-1/2x1-1/4	65x32	74	63.8
2-1/2x1-1/2	65x40	74	63.6
2-1/2x2	65x50	74	63.4
3x1/2	80x15	78	81.0
3x3/4	80x20	78	82.0
3x1	80x25	78	85.0
3x1-1/4	80x32	78	89.0
3x1-1/2	80x40	80	89.5
3x2	80x50	80	88.7
3x2-1/2	80x65	80	89.4
4x1/2	100x15	93	110.0
4x3/4	100x20	93	115.0
4x1	100x25	93	120.0
4x1-1/4	100x32	93	130.0
4x1-1/2	100x40	94	135.0
4x2	100x50	94	140.0
4x2-1/2	100x65	94	141.0
4x3	100x80	94	142.0

W : Nominal Mass - Kg/100 pcs

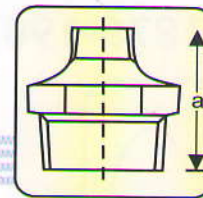
Size, Designation, Dimensions And Mass Of Malleable Pipe Fittings As Per IS : 1879-1987.



REDUCING BUSHING (N4)

Inches	a	w
3/4x1/2	26	4.7
1x1/2	29	9.4
1x3/4	29	7.5
1-1/4x1/2	31	17.8
1-1/4x3/4	31	16.0
1-1/4x1	31	12.0
1-1/2x1/2	31	24.6
1-1/2x3/4	31	22.0
1-1/2x1	31	18.7
1-1/2x1-1/4	31	10.5
2x1/2	35	34.8
2x3/4	35	36.9
2x1	35	40.0
2x1-1/4	35	34.6
2x1-1/2	35	27.3
2-1/2x1-1/2	40	61.0
2-1/2x2	40	46.3
3x1-1/2	44	88.3
3x2	44	90.3
4x-2-1/2	51	150.0

W : Nominal Mass - Kg/100 pcs



REDUCING NIPPLE (N8)

Inches	a	w
3/4x1/2	47	7.6
1x1/2	53	11.4
1x3/4	53	10.9
1-1/4x1/2	57	17.2
1-1/4x3/4	57	18.3
1-1/4x1	57	18.5
1-1/2x1/2	59	20.9
1-1/2x3/4	59	21.5
1-1/2x1	59	22.8
1-1/2x1-1/4	59	25.2
2x1/2	68	32.5
2x3/4	68	33.7
2x1	68	36.7
2x1-1/4	68	36.6
2x1-1/2	68	34.4
2-1/2x1-1/2	75	58.3
2-1/2x2	75	57.7
3x1-1/2	83	81.3
3x2	83	83.3
4x-2-1/2	95	...

W : Nominal Mass - Kg/100 pcs

TOLERANCES (As per Indian Standards)

TOLERANCES IN DIMENSIONS

DIMENSIONS		TOLERANCES
Above mm	Upto and including mm	mm
-	30	± 1.5
30	50	± 2.0
50	75	± 2.5
75	100	± 3.0
100	150	± 3.5

- NOTE: (1) Centre-to-face dimensions apply to Elbows, Tees, Crosses & Bends etc.
(2) Face-to-Face dimension apply to Sockets, Union & Hex Nipples etc.

TOLERANCES IN WALL THICKNESS

Size designation in mm	8	10	15	20	25	32	40	50	65	80	100	125	150
Size designation in inch	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"
Thickness in mm	2.5	2.5	2.5	3.0	3.0	3.5	3.5	4.0	4.5	5.0	6.0	6.5	7.5
Tolerance in mm	-0.5	-0.5	-0.5	-0.7	-0.7	-0.7	-0.7	-0.7	-1.0	-1.0	-1.0	-1.0	-1.0

* No limit for plus tolerance.

- NOTE : 1. The above dimensions & weights are for collar type fittings. For measurements of plain fittings (without collar), the nominal mass of fittings may be reduced by 7% (seven percent) from those specified above. Extract from section 2-10 of Indian Standards Specification for malleable cast iron pipe fittings as per 1879:1987
2. The above weights & dimensions are as per IS : 1879:1987 (Part 1 to 10) but to provide our customers, the best & long duration products, **We manufacture 'MG' brand fittings with plus dimensions & weights.**



IS:1879
MARKED

PIPE FITTINGS

*The Trust
Worthy Name*

SPECIAL FEATURES

'MG' ISI PIPE FITTINGS

BANDED & BEADED PIPE FITTINGS

We also manufacture high class malleable ISI pipe fittings with Banded as well as Beaded ends which increase the strength of the fittings and avoid the chances of cracking. These fittings have heavy demand in government & semi government sector as well as in the foreign market.



BANDED ELBOW



BANDED TEE



BEADED ELBOW



BEADED TEE

CONCEALED PIPE FITTINGS

In addition we manufacture precision extra heavy ISI marked concealed pipe fittings especially made for under ground application. These fittings are packed in poly pouches and then in cartoons after final checking & multi stage inspection.



CONCEALED ELBOW



CONCEALED TEE



CONCEALED SOCKET



CONCEALED UNION



CONCEALED NIPPLE



ACCURATE THREADING



IS:1879
MARKED

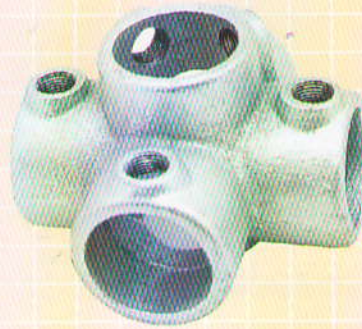
PIPE FITTINGS

*The Trust
Worthy Name*

ADDITIONAL FEATURES

PIPE CLAMPS

Beside manufacturing pipe fittings, we also manufacture Black & Galvanised pipe clamps as per requirement of customer which are supplied with rust proof & hardened set screws. These fittings are very easy to use and no special skill required, no welding, no bending, no threading just an allen key to tighten the set screws and you can join pipes together in a matter of seconds. The comprehensive range of fittings and sizes means that pipe clamp fittings can be used in wide variety of applications, temporary or permanent. These fittings are mainly used for shuttering purposes.



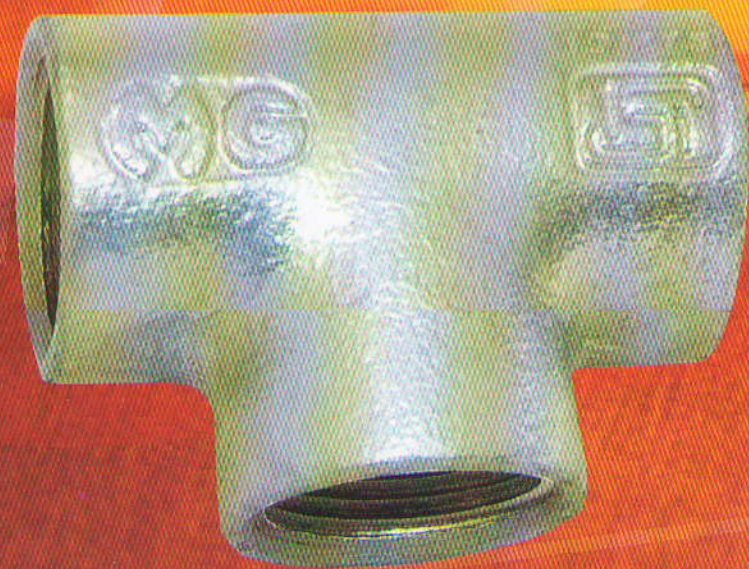
We also undertake and manufacture, besides manufacturing 'MG' brand pipe fittings listed in this catalogue, malleable black heart castings both black & galvanized as per IS :14329-1995 and S.G. Iron (Ductile Iron) castings with different grades, drawings, patterns, samples etc. as per customer's requirements. The castings manufactured by us of different designs and specifications are widely used in Railways, Coal mines, Jute Mills, Electric Transmission lines, Sugar Mills and numerous Government & Semi Government departments.

PACKAGING/PACKING

After full inspection & checking 'MG' Brand pipe fittings wear new look with a variety of packaging as per customer's requirements. After getting fascinating look, it is sent for final packing for despatch in Cartoons/Gunny bags with inside cover of plastic & polythene bags to avoid moisture & rust for sustenance over a long period.



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PIPE FITTINGS



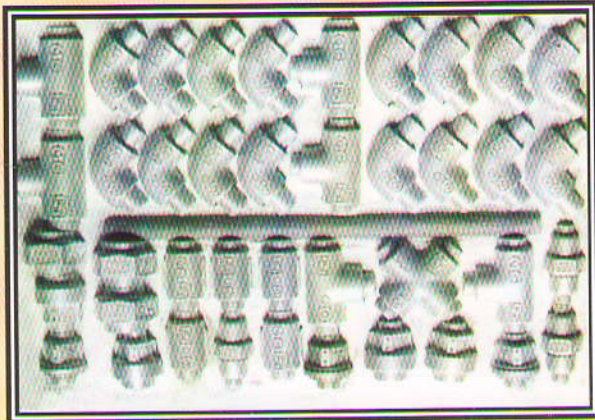


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PIPE FITTINGS

PROCESS

MASTER PATTERN



RAW MATERIAL (PIG IRON)



GALVANISING



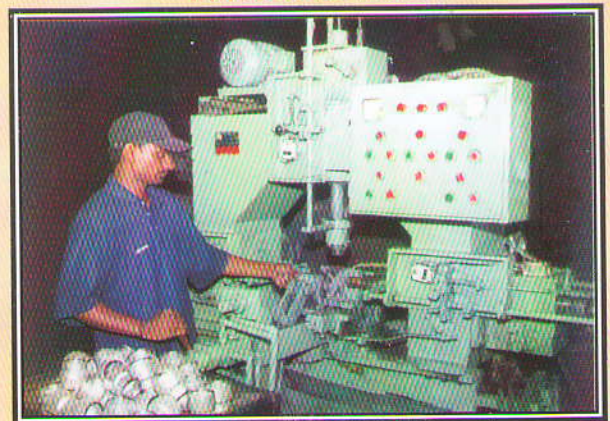
SHOT BLASTING



CHAMFERING



THREADING



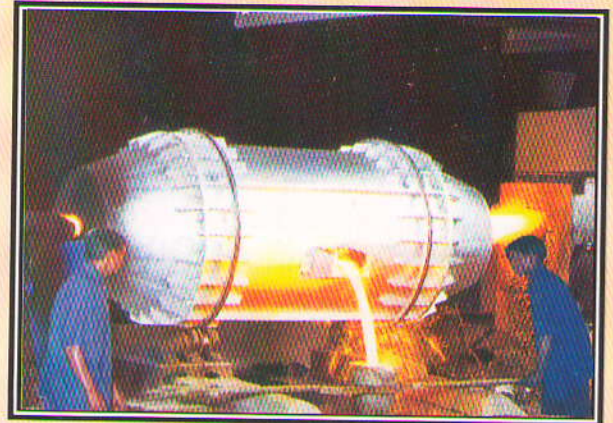
FLOW CHART

*The Trust
Worthy Name*

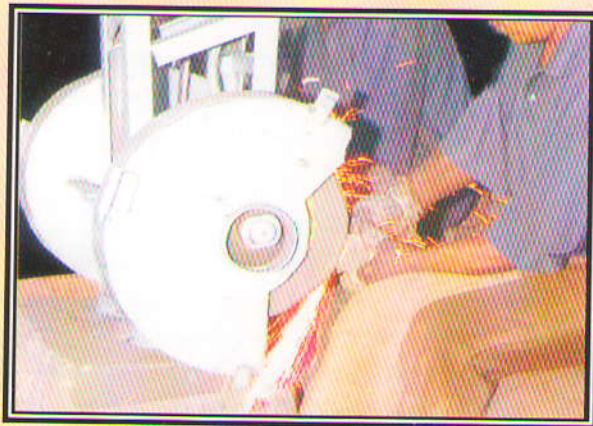
INDUCTION CASTING



ROTARY CASTING



GRINDING



ANNEALING



PACKAGING



PACKING





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PIPE FITTINGS

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Manufacturing Process & Quality Control Chart

Manufacturing Process

Q.C. Chart

CASTING

The raw materials i.e. Pig Iron, Steel scrap are tested for the required chemical composition prior to melting in well equipped laboratory. Then the raw castings are also tested chemically to achieve the required chemical composition.

ANNEALING

To ensure that the material is properly annealed, the required malleability tests are performed along with tensile test & percentage elongation.

GRINDING & SHOT BLASTING

Visual inspection of inner and outer surface of annealed castings is performed to ensure that they are clean, free from blow holes, cracks & sand drops etc.

GALVANIZING

Galvanised fittings are tested in the laboratory to ensure that the mass of Zinc is not less than the specified 610gm/m² as per IS:4759-1996 & IS :6745-1972 and galvanised fittings are also tested visually to ensure that zinc coating is smooth, clean, uniform & free from black spots, pimples etc.

THREADING & MACHINING

The fittings are inspected by qualified engineers to ensure that the material have acquired correct alignment, overall dimensions, wall thickness and threads with the help of suitable thread gauges & measuring instruments.

TESTING, FINAL FINISHING & PACKING

Again visual inspection from piece to piece is performed along with pressure test to ensure that fittings are leak proof before packing in strong double gunny bags.



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