



India's No.1 in Quality

NEW

PIPE FITTINGS

ISO 9001:2015 Company



Reliability in the real sense



Satish Kumar Bighamal
Managing Director



Deepak Bighamal
Joint Managing Director

FROM THE MANAGING DIRECTOR'S DESK

Significant changes have taken place in the economic scenario during the past decade. Increased global competition has brought both challenges and opportunities. The challenge is to not only retain the market share but also to increase it steadily through quality consciousness and stable pricing. The opportunity is to become truly global players by competing in both national and international markets. The vision, mission and values must translate into objectives, strategies and plans for overall growth and improvement. Technical knowledge and application of right methods as well as fixing the priorities result marked improvement. Doing things differently instead of doing different things leads to high quality excellence, perfection and customer delight. **NEW** Brand Pipe Fittings of **Green Manufacturing Co. Limited**, Our pioneer company, has been able to achieve the distinguished position in the market with the patronage and co-operation of a wide network of dealers, distributors and consumers. We are fully equipped to meet all challenges and achieving the top position in quality manufacturing and market leaders of **NEW** Brand Pipe Fittings.



COMPANY PROFILE

GREEN MANUFACTURING CO. LIMITED is a leading unit in organised sector engaged in manufacturing heavy cast iron malleable galvanized pipe fittings in North India, promoted by highly experienced, qualified and dynamic entrepreneurs, the company targets to achieve unmatched quality, customer satisfaction and competitive pricing. The latest plant and machinery installed by the company is managed by a competent team of professionals in engineering and technology.

NEW Brand Pipe Fittings, the product of the company, have been widely accepted in the market due to superb quality and superior craftsmanship. Due to its commitment towards quality consciousness, development of systems and implementation methods, the company has been awarded **ISO 9001** Certification from **LLOYDS REGISTER QUALITY ASSURANCE (LRQA)** of the U.K.

NEW Brand Pipe Fittings are specially designed for underground use. are absolutely free from breakage and leakage and have a life sufficient enough for user satisfaction. Consequently, in a short span of time, the product has been widely accepted in the agriculture, industrial and domestic market.



PRODUCT

In accordance with expectations of the customers seeking outstanding quality at affordable and competitive costs, **NEW** Brand Pipe Fittings, our prestigious product is fulfilling the aspirations of our valued consumers. Processed through latest manufacturing techniques, the product excels in quality and longevity. **NEW** Brand Pipe Fittings do not break or even crack while getting fixed into the pipes. Their high malleability can withstand greater tightening force applied for firm and leak proof joints.

Accurate and perfect thread alignment of **NEW** Brand Pipe Fittings makes them suitable for connection to pipes at required different angles, this leads to saving of time and labour and ensures free and uninterrupted flow of water.

NEW Brand Pipe Fittings are properly galvanized at specified temperature in galvanizing furnace with latest techniques. This makes them absolutely corrosion free requiring no replacement whatsoever.

Before being brought into the market, **NEW** Brand Pipe Fittings are subjected to thorough physical and chemical testing. Produced in line with international standards, these are comparable to British and American products both in quality and price.



NEW SPECIAL FEATURES

- ◆ 100% testing of input materials.
- ◆ Standard specification material only used.
- ◆ Standard precession/ tolerances maintained
- ◆ Melting under controlled temperature to withstand internal/external pressure.
- ◆ Heat treatment under controlled temperature and pressure for standard malleability and ductility.
- ◆ Each product tested & checked for uniform, clean and smooth galvanizing.
- ◆ Designed for effortless use by the plumbers.
- ◆ Standard threading maintained with uniformity and at accepted tolerance.



RESEARCH & DEVELOPMENT

It is the basic strategic policy matter of the company to assign sufficient funds for the Research and Development programs for continuous improvement of **NEW** Brand Pipe Fittings. The design, physical and chemical properties of the Pipe Fittings are continuously improved for which assistance of eminent consultants and scientists are availed by the company. Stringent testing norms are followed under the supervision of highly technical and experienced personnel.





MATERIAL SPECIFICATION

The Company confines to Standard Specification material

PRODUCT SPECIFICATION

- A. Black heart Malleable cast iron as per IS : 14329-1995 Grade BM-300
- B. Threaded as per IS-554-1999, Parallel female & taper male threaded.
- C. Galvanized as per IS 4759-1996

TESTING SPECIFICATION FOR INPUTS

Pig Iron, Zinc, Oils, consumable store and all inputs required in production process are tested for their physical and chemical properties as per the standard specification.

INTERMEDIATE PROCESS CHECK SPECIFICATIONS

After checking raw casting for blow holes, cold shuts, hard spots, shifts and sand depth by Super specialised supervisors, the product is shifted for further operation.

Annealed castings 100% free from cracks and distortion are transferred to surface cleaning section.

Grinding, shot blasting & surface smoothing for uniform finish strictly monitored in operational system.





Before passing the product to machine shop a streamlined system is used to produce lustrous, smooth and uniform galvanizing.

Continuous inspection is maintained during the threading of the products in the automatic machines to ensure the perfect alignment and gauging.

Sophisticated instrumental check is introduced at every step to strengthen the quality control measures at every stage of manufacturing.

Lab tests are the part of the whole system and are subjected to all standard physical and chemical tests.

Internal Hydraulic Pressure	20 Kgf/cm ²
Internal Air Pressure	7.5 Kgf/cm ²
Max. Working Pressure for water	20 Kgf/cm ²
For oil Steam, Saturated Gas, Air	11 Kgf/cm ²

SPECIAL NEW TESTS

- ◆ Malleability Test
- ◆ Elasticity Test
- ◆ Tensile Test
- ◆ Hydraulic Test

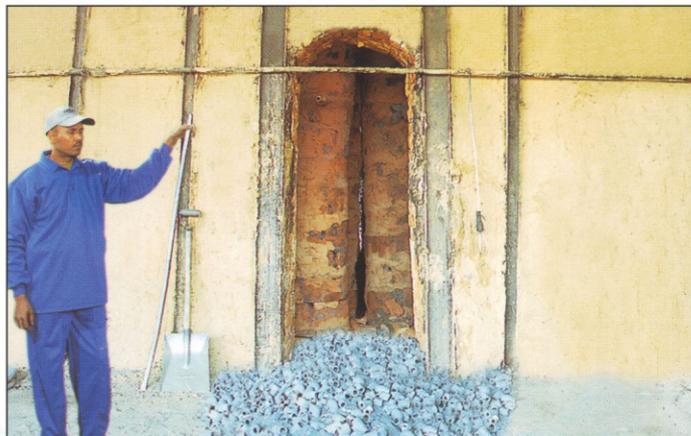




PRODUCTION CONTROL SYSTEMS

CASTING

Ultra modern insulated Induction furnaces are used to produce malleable castings with sophisticated hot metal handling, equipments. In order to produce precision casting, the foundry is supervised by highly experienced metallurgists. The company has provided pollution free foundry to provide excellent environment for the workers to ensure quality production.



ANNEALING

Sophisticated heat treatment procedures are followed under technically qualified staff. This is done to qualify the structure of the product in order to ensure subsequent malleability and ductility. In this manner the ultimate product withstands higher internal and external pressure without developing cracks

GRINDING & SURFACE CLEANING

The most vital operation in the production system is smooth surface cleaning of **NEW** Brand Pipe Fittings. The Hi-Tech machinery and equipments are used in the process of grinding, shot blasting and surface smoothing. This gives **NEW** Brand Pipe Fittings the two essential qualities of lustre and uniformity.





GALVANIZING

NEW Brand Pipe Fittings are galvanized by Hot Dip Process. Proper surface cleaning and surface smoothing is done before galvanizing the product. Special high grade Zinc (99.99% purity) is used in the process. As a result, the galvanizing exceed the minimum standards laid by the Indian Standards Institute and **NEW** Brand Pipe Fittings lustrous and smooth. Our Research and Development Wing has practically demonstrated that utilization life of **NEW** Brand Pipe Fittings is doubled by using these procedures and high grade metal



CHAMFERING

After galvanizing process and before entering into the process of threading the **NEW** Brand Pipe Fittings are chamfered using Hi-Tech Chamfering Machines. This helps in easy entrance of pipe and correct first thread engagement

HI TECH THREADING

Sophisticated automatic threading order to machines are used in free keep the threads clear and from dregs. Threading is done simultaneously in all outlets with the help of HSS ground taps. Perfect threads, alignments and angles are monitored with equipments developed by our Research & Development Wing. Qualified technicians and engineers supervise all the process to ensure excellent quality of the product.





SPECIAL **NEW** PIPE FITTING PACKING

Our research and development wing has designed quadruplicate packing for new **NEW** Brand pipe fittings to secure the products from any damage that may be caused by improper handling.

After final checking & systematic inspections, **NEW** brand pipe fittings are packed as follows Pipe Fittings are packed in polypropylene printed pouches.



Standard number of pieces as per printed specification are packed in multi coloured printed cardboard boxes and can be handled with ease by the retailers without disturbing the quality of the product.

Special care is taken for the safety of the products and accordingly the mini boxes are sealed in poly layer by automatic shrink packaging machine.



Pre printed corrugated boxes are used to pack the mini cardboard poly shrunk pack boxes as per the standard specification of the company .

Final sealing of the carton is done in strapping machine by using printed **NEW** straps



WHY CUSTOMER DEMAND **NEW** BRAND PIPE FITTING

Being highly malleable, **NEW** Brand Pipe Fittings do not break or even crack while fixing into the pipes. They can withstand greater tightening force for firm and leak proof joints. The dimensional accuracy of **NEW** Brand Pipe Fittings ensures effortless assembling leading to saving of time, labour and energy.

Accurate and perfect thread alignment of **NEW** Brand Pipe Fittings makes them suitable for connection to pipes at required different angles, this leads to uninterrupted and free flow of water.

NEW Brand Pipe Fittings are properly galvanized at specified temperatures in galvanizing furnace with latest techniques. This makes them absolutely corrosion free requiring no replacement whatsoever.

CORPORATIVE STATUS OF TECHNICAL SPECIFICATIONS

A look and various standard specifications for hot galvanized cast iron malleable pipe fittings for different countries as follows will reveal that **NEW** Brand Pipe Fittings enjoy better status.

SPECIFICATIONS	NEW	ISS	ISO	BSS	JIS
Minimum Tensile Strength (Kgf/mm ²)	32	30.6	30	28	28
Minimum Elongation (%)	8	6	6	6	5
Minimum Zinc Coating (gms/m ²)	660	610	450	450	
Minimum Working Pressure (Kgf/cm ²) Hydraulic	20	14	20	14	20
Angle Tolerance Degree	(+/-) 0.50	1.00	0.50	0.45	0.40



SCOPE OF APPLICATION

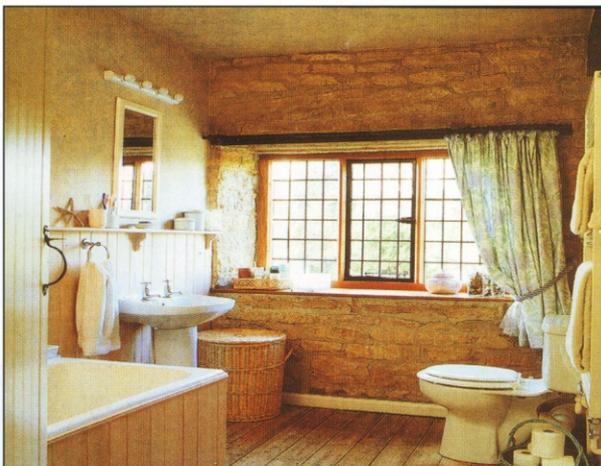
NEW Brand Pipe Fittings are specially designed for underground usage. These are extremely suitable for installation in agricultural, industrial and domestic sector.

NEW Brand Pipe Fittings being superb in quality, can be safely used in various structures to ensure that the high costs involved in constructions like high value marbles, tiles and paints etc. are safeguarded. Due to their durability and accuracy, **NEW** Brand Pipe Fittings command maximum acceptability in the followings:

- A. All type of constructions including multistorey buildings.
- B. Steel plants, Refineries, Docks and Shipyards.
- C. Thermal plants
- D. All types of supplies of Air, Water & Oil industries.
- E. Agriculture
- F. Water supply schemes in cities and villages



IMPORTANT



Due to continuous development program of our research and Development Wing, the design and data in this catalogue are subject to change without notice.

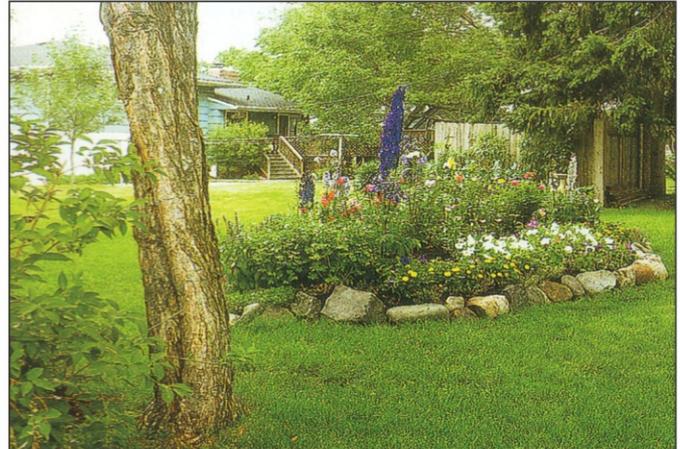
Special attention of consumers is invited to check the lines with the help of pressure pumps before covering the concealed or underground installations.



ADVANTAGES OF USING NEW BRAND PIPE FITTINGS

Being highly malleable, **NEW** Brand Pipe Fittings do not break or even crack while fixing into the pipes. They can withstand greater tightening force for firm and leakproof joints.

The dimensional accuracy of **NEW** Brand Pipe Fittings ensures effortless assembling leading to saving of time, labour and energy.



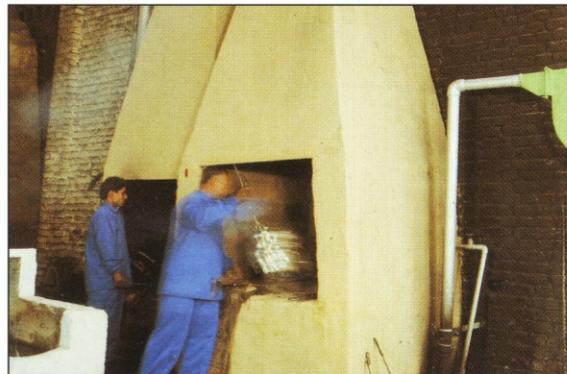
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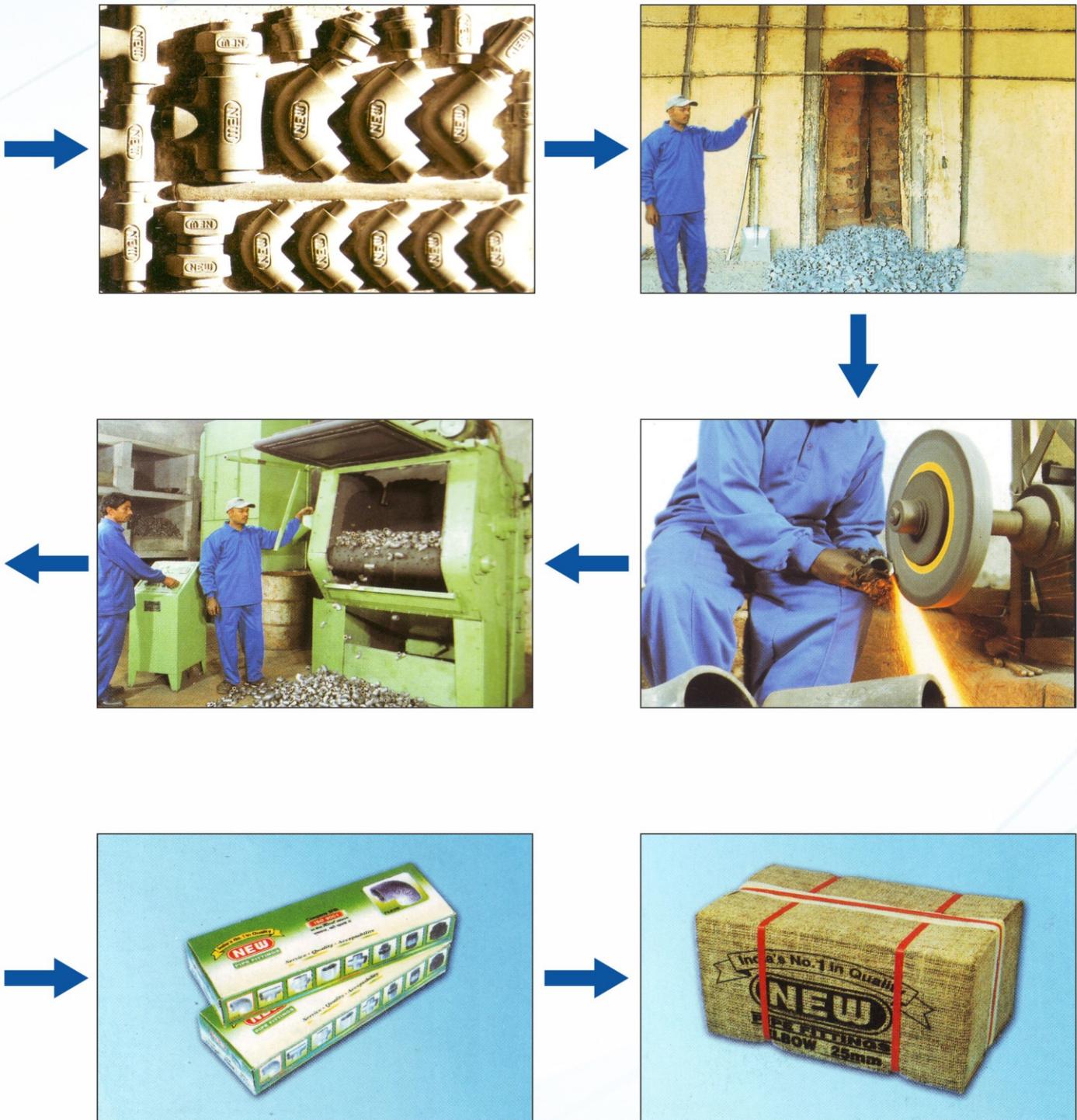


PROCESS FLOW CHART



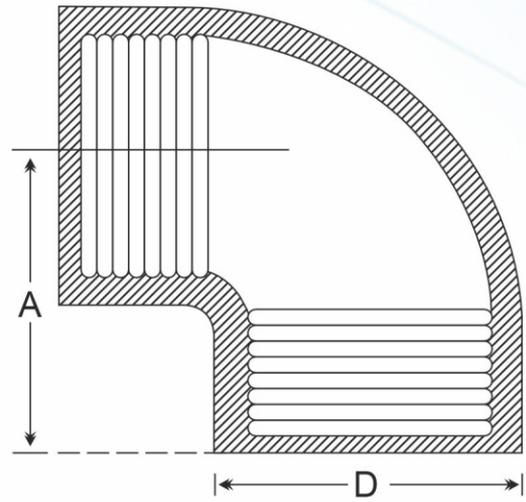


PROCESS FLOW CHART





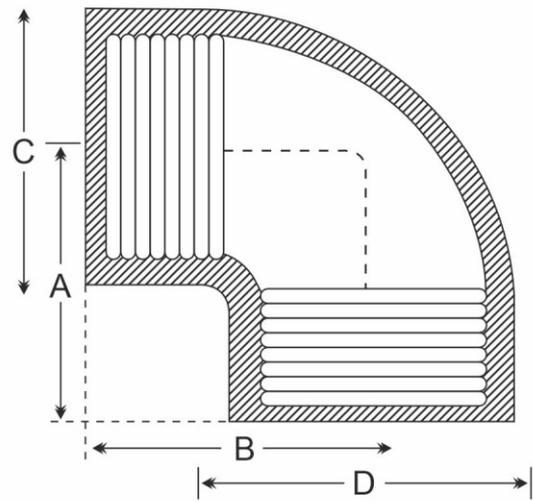
ELBOW



Nominal Size in MM	A in mm	D in mm	Weight in grams
15	34	30.5	175
20	39	36.5	225
25	43	42.0	295
32	48	51.5	445
40	52	58.5	550
50	61	71.5	850
65	73	89.0	1570
80	83	102.0	2100
100	101	129.0	3900
150	134	181.0	8000



REDUCING ELBOW

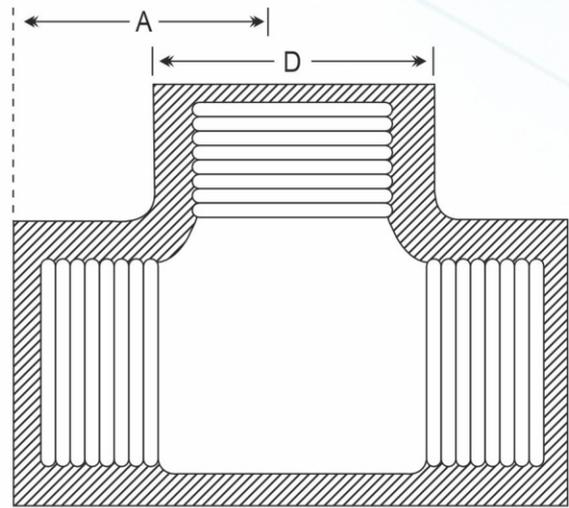


Nominal Size in mm	A in mm	B in mm	C in mm	D in mm	Weight in grams
20x15	35	36	30.5	36.5	205
25x15	37	39	30.5	42.0	250
25x20	40	41	36.5	42.0	280
32x15	37	43	30.5	51.5	310
32x20	40	45	36.5	51.5	335
32x25	42	46	42.0	51.5	380
40x15	38	46	30.5	58.5	360
40x20	41	48	36.5	58.5	400
40x25	44	50	42.0	58.5	430
40x32	49	51	51.5	58.5	515
50x15	40	53	30.5	71.5	510
50x20	43	54	36.5	71.5	570
50x25	46	56	42.0	71.5	590
50x32	51	57	51.5	71.5	720
50x40	54	58	58.5	71.5	710
65x15	46	62	30.5	89.0	810
65x20	48	63	36.5	89.0	915
65x25	49	63	42.0	89.0	950

Nominal Size in mm	A in mm	B in mm	C in mm	D in mm	Weight in grams
65x32	55	67	51.5	89.0	1210
65x40	58	68	58.5	89.0	1150
65x50	64	70	71.5	89.0	1390
80x15	47	70	36.5	102.0	920
80x20	48	70	36.5	102.0	920
80x25	52	71	42.0	102.0	950
80x32	57	75	51.5	102.0	1440
80x40	60	76	58.5	102.0	1500
80x50	68	78	71.5	102.0	1760
80x65	73	79	89.0	102.0	1910
100x15	54	80	30.5	129.0	1530
100x20	56	82	36.5	129.0	1530
100x25	58	87	42.0	129.0	1550
100x32	66	89	51.5	129.0	2400
100x40	70	91	58.5	129.0	2700
100x50	76	93	71.5	129.0	2800
100x65	83	97	89.0	129.0	2900
100x80	88	98	102.0	129.0	3000



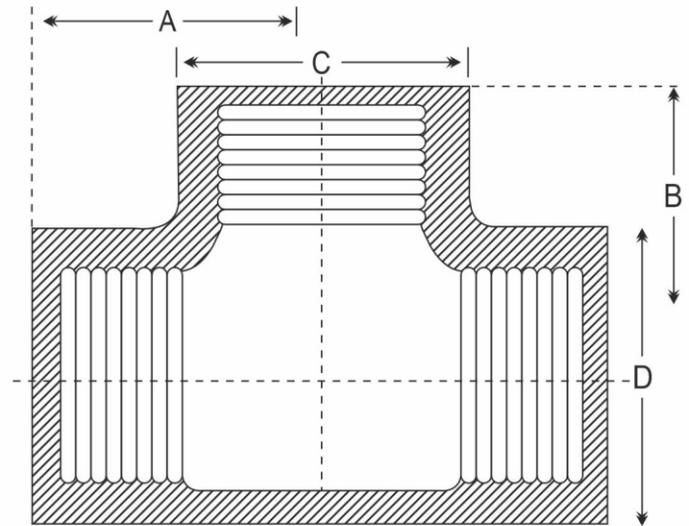
TEE



Nominal Size in MM	A in mm	D in mm	Weight in grams
15	32.5	30.5	230
20	36.0	36.5	295
25	41.0	42.0	375
32	47.0	51.5	580
40	51.0	58.5	705
50	60.0	71.5	1150
65	72.5	89.0	1900
80	80.0	102.0	2560
100	99.0	129.0	4500
150	132.00	181.0	9900



REDUCING TEE

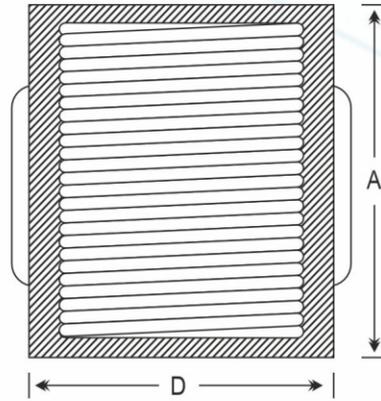


Nominal Size in mm	A in mm	B in mm	C in mm	D in mm	Weight in grams
20x15	33	35	30.5	36.5	270
25x15	35	39	30.5	42.0	320
25x20	38	39	36.5	42.0	345
32x15	36	42	30.5	51.5	415
32x20	38	43	36.5	51.5	450
32x25	43	45	42.0	51.5	500
40x15	38	45	30.5	58.5	465
40x20	40	46	36.5	58.5	525
40x25	44	48	42.0	58.5	565
40x32	48	49	51.5	58.5	655
50x15	45	52	30.5	71.5	700
50x20	42	53	36.5	71.5	740
50x25	45	55	42.0	71.5	785
50x32	49	56	51.5	71.5	895
50x40	52	58	58.5	71.5	940
65x15	39	62	30.5	89.0	1150
65x20	45	63	36.5	89.0	1110
65x25	48	65	42.0	89.0	1235

Nominal Size in mm	A in mm	B in mm	C in mm	D in mm	Weight in grams
65x32	53	66	51.5	89.0	1385
65x40	56	67	58.5	89.0	1425
65x50	62	69	71.5	89.0	1625
80x15	45	70	30.5	102.0	1425
80x20	47	71	36.5	102.0	1435
80x25	51	71	42.0	102.0	1600
80x32	55	74	51.5	102.0	1725
80x40	58	74	58.5	102.0	1825
80x50	64	77	71.5	102.0	1965
80x65	73	78	89.0	102.0	2365
100x15	53	83	30.5	129.0	2000
100x20	54	83	36.5	129.0	2000
100x25	59	84	42.0	129.0	2050
100x32	64	88	51.5	129.0	2200
100x40	67	89	58.5	129.0	2200
100x50	71	90	71.5	129.0	3000
100x65	79	92	89.0	129.0	3400
100x80	86	94	102.0	129.0	3600



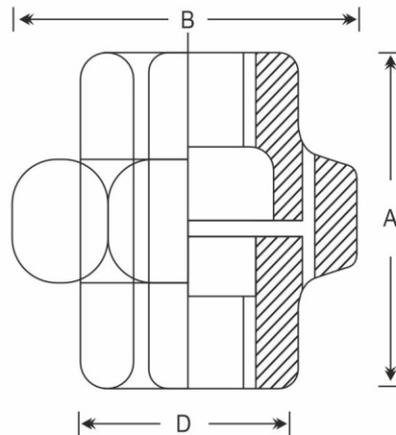
SOCKET



Nominal Size in MM	A in mm	D in mm	Weight in grams
15	37.0	30.5	115
20	41.0	36.5	150
25	46.0	42.0	195
32	52.5	51.5	305
40	57.5	58.5	350

Nominal Size in MM	A in mm	D in mm	Weight in grams
50	67.0	71.5	645
65	78.0	89.0	980
80	84.0	102.0	1290
100	98.0	129.0	2040
150	113.0	181.0	3700

UNION

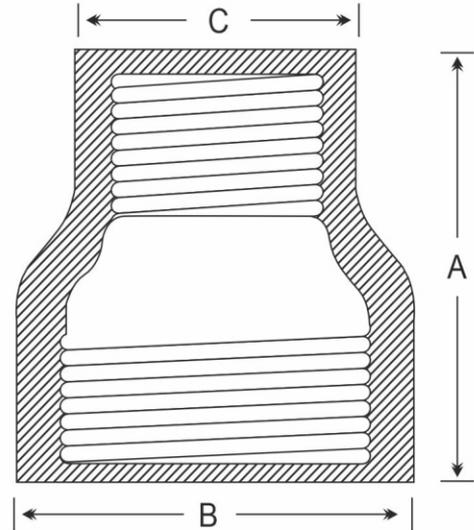


Nominal Size in MM	A in mm	B in mm	D in mm	Weight in grams
15	52	48	30.5	295
20	61	56	36.5	430
25	66	64	42.0	590
32	75	74	51.5	825
40	76	80	58.5	950

Nominal Size in MM	A in mm	B in mm	D in mm	Weight in grams
50	83	94	71.5	1375
65	90	119	89.0	2210
80	98	133.0	102.0	3100
100	115	157.0	129.0	4150
150	150	235.0	181.0	9800



REDUCING SOCKET

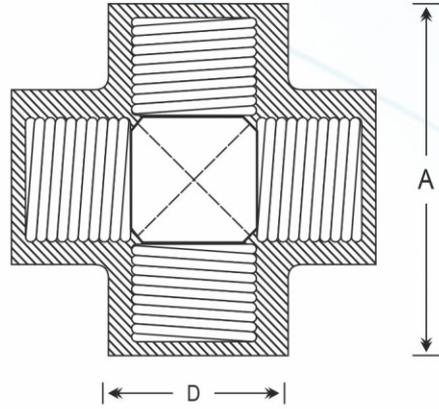


Nominal Size in mm	A in mm	B in mm	C in mm	Weight in grams
20x15	41	36.5	30.5	135
25x15	49	42.0	30.5	180
25x20	49	42.0	36.5	180
32x15	54	51.5	30.5	240
32x20	54	51.5	36.5	240
32x25	54	51.5	42.0	255
40x15	59	58.5	30.5	290
40x20	59	58.5	36.5	295
40x25	59	58.5	42.5	320
40x32	59	58.5	51.5	350
50x15	70	71.5	30.5	450
50x20	70	71.5	36.5	470
50x25	70	71.5	42.0	470
50x32	70	71.5	51.5	500
50x40	70	71.5	58.5	515
65x15	78	89.0	30.5	750
65x20	78	89.0	36.5	780
65x25	78	89.0	42.0	770

Nominal Size in mm	A in mm	B in mm	C in mm	Weight in grams
65x32	78	89.0	51.5	835
65x40	78	89.0	58.5	840
65x50	78	89.0	71.5	875
80x15	83	102.0	30.5	950
80x20	83	102.0	36.5	970
80x25	83	102.0	42.0	990
80x32	83	102.0	51.5	1085
80x40	83	102.0	58.5	1110
80x50	83	102.0	71.5	1040
80x65	83	102.0	89.0	1210
100x15	99	129.0	30.5	1670
100x20	98	129.0	36.5	1670
100x25	98	129.0	42.0	1700
100x32	96	129.0	51.5	1710
100x40	96	129.0	58.5	1720
100x50	96	129.0	71.5	1800
100x65	96	129.0	89.0	1860
100x80	96	129.0	102.0	1900

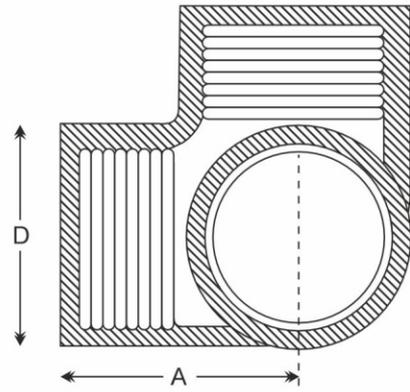


CROSS



Nominal Size in MM	A in mm	D in mm	Weight in grams
15	62	30.5	240
20	70	36.5	325
25	80.0	42.0	430
32	92	51.5	640
40	102	58.5	780
50	120	71.5	900

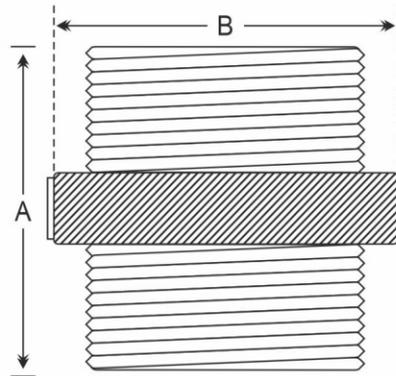
3-WAY ELBOW



Nominal Size in MM	A in mm	D in mm	Weight in grams
15	33	30.5	230
20	36	36.5	300
25	42	42.0	380
32	48	51.5	490
40	52	58.5	660
50	61	71.5	1100



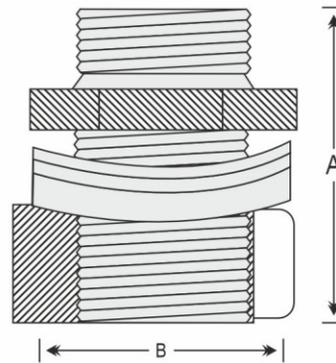
NIPPLE



Nominal Size in MM	A in mm	B in mm	Weight in grams
15	52	27	100
20	54	30	135
25	62	38	215
32	66	47	350
40	71	54	400

Nominal Size in MM	A in mm	B in mm	Weight in grams
50	81	67	670
65	91	85	880
80	100	97	1380
100	122	125	2400
150	154	195	5800

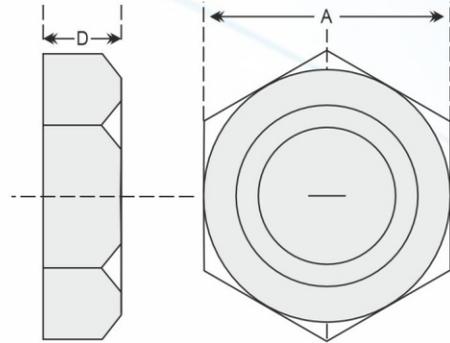
TANK NIPPLE



Nominal Size in MM	A in mm	B in mm	Weight in grams
15	60.0	30.5	200
20	65.0	36.5	275
25	74.0	42.0	405
32	98.0	51.5	565
40	106.0	58.5	890
50	128.0	71.5	1520

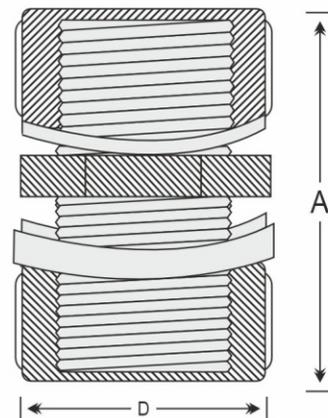


CHECK NUT



Nominal Size in MM	A in mm	D in mm	Weight in grams
15	33	10	45
20	38	11	55
25	47	12	90
32	57	13	145
40	63	14	175
50	75	15	260

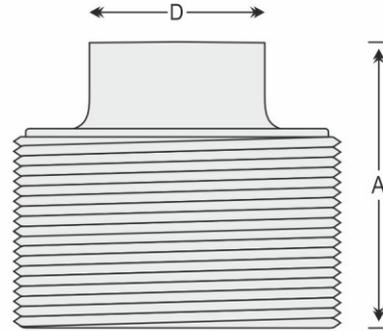
LONG NIPPLE



Nominal Size in MM	A in mm	D in mm	Weight in grams
15	80	30.5	300
20	90	36.5	430
25	105	42.0	605



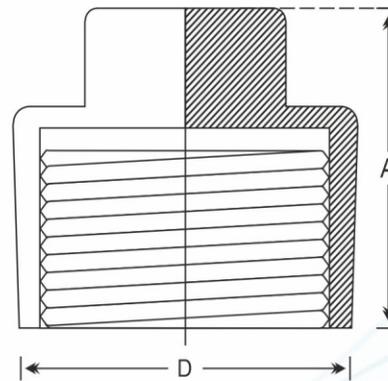
PLUG



Nominal Size in MM	A in mm	D in mm	Weight in grams
15	27	17	45
20	30	19	65
25	31	20	105
32	37	23	190
40	38	24	250

Nominal Size in MM	A in mm	D in mm	Weight in grams
50	45	26	400
65	46	34	490
80	46	39	640
100	52	47	1200

CAP PLUG



Nominal Size in MM	A in mm	D in mm	Weight in grams
15	37	30.5	100
20	39	36.5	140
25	42	42.0	180
32	51	51.5	315
40	53	58.5	390

Nominal Size in MM	A in mm	D in mm	Weight in grams
50	58	71.5	585
65	58	89.0	630
80	62	102.0	1030
100	73	129.0	1410

India's No.1 in Quality
NEW
PIPE FITTINGS



India's No.1 in Quality

NEW

PIPE FITTINGS

ISO 9001:2015 Company







Certificate

This is to certify that
GREEN MANUFACTURING CO. LIMITED

C-20, CANAL ROAD, INDL. AREA, C-48, FOCAL POINT EXTN. (2ND PREMISES),
JALANDHAR, PUNJAB - 144004, INDIA

Has been found in compliance with requirement of
Quality Management System
ISO 9001:2015

For The Following Scope:
"MANUFACTURING AND TRADING OF DUCTILE IRON GROOVED FITTINGS
UPTO 300MM, DUCTILE IRON THREADED FITTINGS UPTO 50MM,
G.I FITTINGS (MALLEABLE IRON) UPTO 150MM."

Certificate No	: QMS/230620/4834
Original Certificate Date	: 01st - March -2025
Issue Date	: 01st - March -2025
Expiry Date	: 28th - February -2028

To check this certificate status visit
<http://eurokals.org.uk/check-certified-org.php>







Authorised Signatory

Office: Gebirgsjaegerstrasse 29, Kirchdorf in Tirol, 6382, Austria
International Standards Certification (ISC) accredited by 'Euro UK' This Certification remains the property of 'ISC' to whom it must be returned on request.

www.eurokals.org.uk



Certificate

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GREEN MANUFACTURING CO. LIMITED

C-20, CANAL ROAD, INDL. AREA, C-48, FOCAL POINT EXTN. (2ND PREMISES),
JALANDHAR, PUNJAB - 144004, INDIA

Has been found in compliance with requirement of
Environmental Management System
ISO 14001:2015

For The Following Scope:
"MANUFACTURING AND TRADING OF DUCTILE IRON GROOVED FITTINGS
UPTO 300MM, DUCTILE IRON THREADED FITTINGS UPTO 50MM,
G.I FITTINGS (MALLEABLE IRON) UPTO 150MM."

Certificate No	: EMS/230620/4835
Original Certificate Date	: 01st - March -2025
Issue Date	: 01st - March -2025
Expiry Date	: 28th - February -2028

To check this certificate status visit
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Reliability in the real sense

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PIPE FITTINGS





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