



ABOUT THE COMPANY

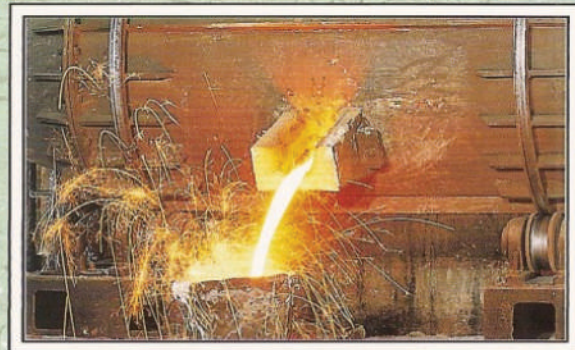
Unique Pipe Fitting Co. is one of the leading manufacturers of Malleable Iron Galvanized Pipe Fittings in India. Our modern factory is equipped with upto date plant, machinery and inspection equipment, skilled craftsmanship, plus rigid inspection throughout all stages of manufacturing ensures the high standard of accuracy now associated with all **"UNIK"** Pipe Fittings. Our partners are large scale Stockist, Distributors all over India. We are striving to be an efficient and reliable partners to our customers. It is our aim to continuously upgrade our Production technique in order to offer our Stockist/ Distributors and consumers an excellent quality at reasonable price.

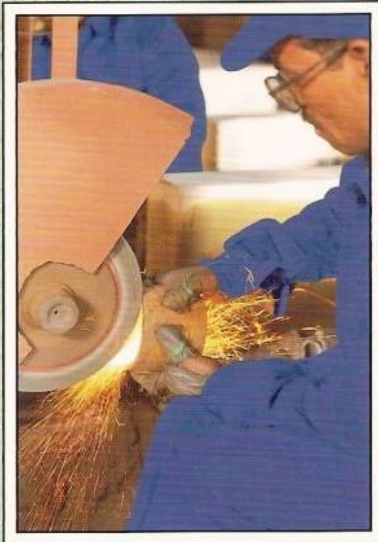


"UNIK" Brand Pipe Fittings

"UNIK" Brand Pipe Fittings enjoy a great reputation for its quality and durability all over India and abroad. It can be found on piping systems throughout India and this popularity is due to the Company's reputation for producing consistent high quality products combined with a nation wide distribution system.

"UNIK" Brand Pipe Fittings are manufactured keeping in mind the fact that they are often used on underground and concealed piping installations and the fault, therefore, cannot easily be detected and rectified.





Greater attention is therefore paid to ensure that no breakage or leakage occurs anywhere in service, Each fitting is subjected to a multi stage inspection which ensures accuracy and durability of the fittings in all types of industrial, agricultural, domestic and other piping installation. Our registered trade mark **"UNIK"** appears on all our fittings.

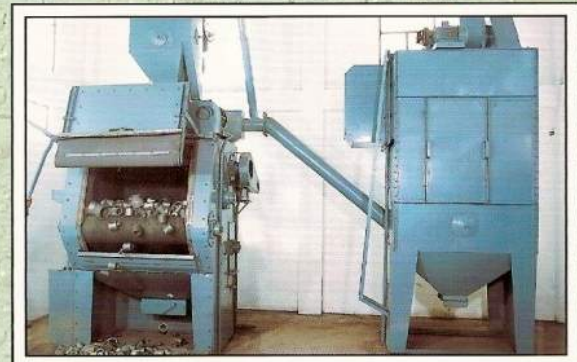
SALIENT FEATURES

HIGHER MALLEABILITY

"UNIK" Brand Pipe Fittings withstand higher internal and external pressure without development of cracks as these are produced by using better melting characteristics and heat treatment procedures to provide better ductility.

EFFECTIVE GALVANIZING

"UNIK" Brand Pipe Fittings are galvanized by highest purity Zinc in the Virgin form by controlled hot dip process. Therefore, these have uniform, clean and continuous coating of Zinc on both internal and external unmachined surfaces without any black spots and as well as acid spots. In **"UNIK"** Brand Pipe Fittings, the thickness of Zinc coating exceeds the minimum specified in the Indian Standard, so as to provide added resistance to corrosion in abnormal weather conditions.





CHAMFERING

“UNIK” Brand Pipe Fittings are chamfered slightly at each thread opening for easy entrance of pipe and correct first thread engagement.



PRECISION THREADING

“UNIK” Brand Pipe Fittings are threaded after galvanizing in order to keep the threads clear and free from dregs. All outlets are threaded simultaneously with the help of HSS ground taps on automatic threading machines to ensure perfect thread alignment at correct angles so “UNIK” Brand Pipe Fittings have threads matching the theoretically correct profile. These dimensions are maintained within closer tolerance limits which ensures close contact with pipe and eliminates the hazard of leakage. Threads are free from defects such as thin threads, break threads and fins.

SPECIFICATIONS

MATERIAL :

Blackheart malleable cast iron as per IS : 14329-1995 grade BM - 300.

THREADS :

Threaded as per IS:554-1999, parallel female and taper male threads.

FINISH :

Galvanised finish tested in accordance with provisions contained in IS-4759-1996.



TEST & WORKING PRESSURES

"UNIK" Brand Pipe Fittings are tested for leakage at an internal hydraulic pressure of 20 kgf/cm² or at an internal air pressure of 7.5 kgf/cm². The maximum working pressure for water is 20 Kgf/cm² and for oil, steam (saturated) gas, air, it is 11 kgf/cm² at ambient temperature.

QUALITY CONTROLS

The process controls are rigidly enforced throughout the production time to ensure that finished goods are of the highest quality.



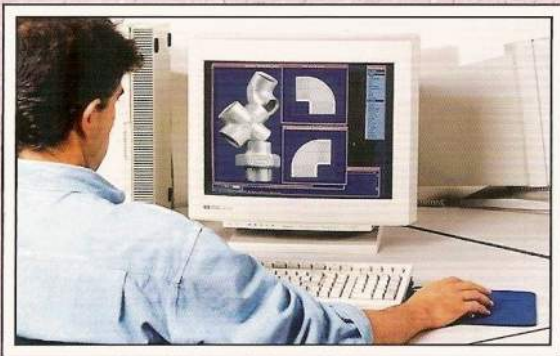
RAW MATERIAL TESTING

Important raw materials, other ingredients are tested, prior to their use, for their essential physical and chemical properties, in a well equipped laboratory.

STAGE INSPECTION (VISUAL%)

- Raw Casting are inspected for freedom from any such defects as blow holes, hard spots, cold shuts, shifts and sand depth etc.
- Annealed Castings are inspected for cracks & distortion.
- Galvanized Casting are inspected to ensure that the Zinc Coating is smooth, clean, continuous and free from black and acid spots.
- Machined fittings are inspected for any such defects on the threaded portions as thin threads, break threads, fins and pin holes.





MECHANICAL TESTS

(By sampling Method)

We carry out various tests during the course of production include

1. To ensure that the **"UNIK"** Pipe Fittings are properly malleabillised, we carry out the Malleability test.
2. To ensure that the **"UNIK"** Pipe Fittings are properly heat treated and have acquired desired tensile strength and elasticity, we carry out the Tensile Test.
3. To ensure that the **"UNIK"** Pipe Fittings do not leak when subjected to a given internal fluid pressure, pressure test is carried out.

OTHER INSPECTIONS

(By sampling Method)

"UNIK" Brand Pipe Fittings are inspected with the help of suitable instruments i.e. Thread Gauges, Templates, Micro Meter and Gauges for thread dimensions and alignment and over all dimensions and wall thickness.

TECHNICAL COMPARISON

Given below is the table which shows how the specifications of **"UNIK"** Brand Pipe Fittings compare favourably with other various standard specifications for Malleable Cast Iron Pipe Fittings applied in different leading countries.

SPECIFICATIONS	"UNIK"	ISS	ISO	BSS	JIS
Min. Tensile Strength (kgf/mm ²)	32	30	30	28	28
Min. Elongation (%)	7	6	6	6	5
Min. Working Pressure (Kgf/cm) Hydraulic	20	14	20	14	20
Angle Tolerance Degree	(+/-) 0.50	1.00	0.50	0.45	0.40

ADVANTAGES OF USING 'UNIK' BRAND PIPE FITTINGS



SAVING COST OF LABOUR & TIME

"UNIK" Brand Pipe Fittings do not crack or break while screwing into pipe due to their higher malleability, withstand higher tightening force applied for making firm and leakproof joints, thus eliminating any chances of wastage of labour and material.

"UNIK" Brand Pipe Fittings can be quickly assembled with pipe due to dimensional accuracy of threads which eliminates the necessity of any rework on threads at site, which again results in considerable saving of time and labour cost.

SAVING IN MAINTENANCE & REPLACEMENT COSTS

"UNIK" Brand Pipe Fittings do not call for any maintenance or frequent replacements which may be quite expensive, particularly if the connections are concealed or underground because "UNIK" Brand Pipe Fittings have excellent durability.

"UNIK" Brand Pipe Fittings connect pipes at desired angle be it 90 degree or 180 degree due to perfect thread alignment and keep piping installations free from any additional strain. This also helps maintaining correct flow rate of water.





"UNIK" Brand Pipe Fittings in normal applications, resist corrosion over long periods hence these do not require any additional protective coating such as paint.

SCOPE OF APPLICATION

At the time of using the range of **"UNIK"** Brand Pipe Fittings any one can line up settings, set up 90 degree angles and junctions with or without variation of diameters.

"UNIK" Brand Pipe Fittings are extensively used on water, oil steam, air and gas flow lines in building constructions, industries, oil refineries, steel plants, shipyards agriculture and other fields.

- (A) Building Construction**
- (B) Agriculture :**
- (C) Industries, Oil Refineries, Steel Plants, Shipyard & Thermal Plants.**
- (D) Other fields, like city and village water supply schemes.**

IMPORTANT

Due to continuous development programme the design and data in this catalogue are subject to change without notice.

The users are advised to check the lines with the help of pressure pump before plastering or flooring.



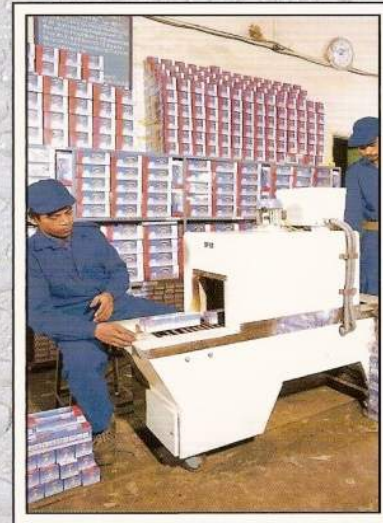
UNIK PACKING

Prior to 1994, Pipe Fitting in India were sold loose in gunny bags only. We at **"UNIK"** are always thinking of new innovations. It was due to loose packing, Pipe Fittings were not getting that respectability in the market which it deserved. Packing element was introduced for the first time in India by **"UNIK"**.

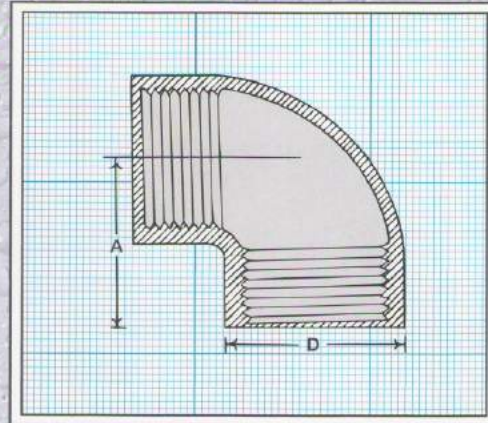
Now more and more manufacturers of Pipe Fittings are following Dabbi Packing. This is what we call - **"LEADERSHIP THROUGH QUALITY & INNOVATIONS"**.

"UNIK" Pipe Fittings after final checking are packed as follows :-

- (A) Each item is packed in poly pouches after multi-stage inspection.
- (B) Poly pouches are placed in cartons of 3 Ply in mini cartons.
- (C) These mini cartons are sealed and passed through Shrink Wrapping poly bag sealing machine to ensure safety from moisture.
- (D) Such mini cartons are placed in bituminised heasian cloth 7 ply master carton.
- (E) The contents of each master carton are shown on the carton.
- (F) Each master carton is sealed with white printed heat sealable strapping.

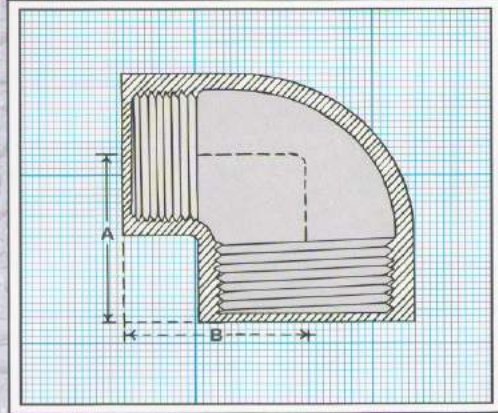
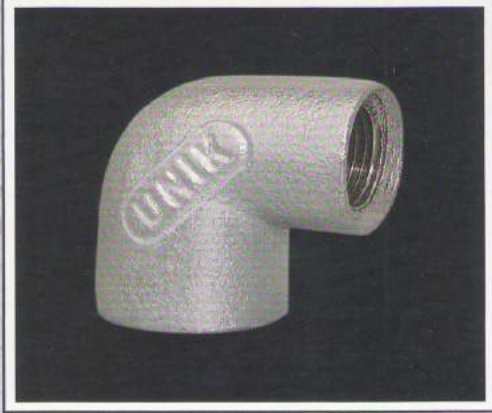


ELBOW



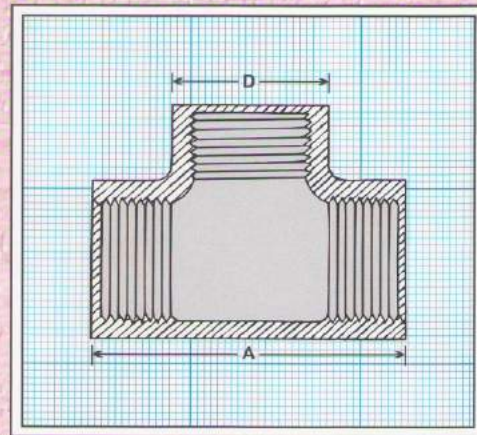
Nominal Size in mm	A in mm	D in mm
15	34	30
20	39	36
25	43	41
32	46	50
40	52	58
50	60	71
65	70	88
80	79	100
100	98	126
150	134	180

REDUCING ELBOW



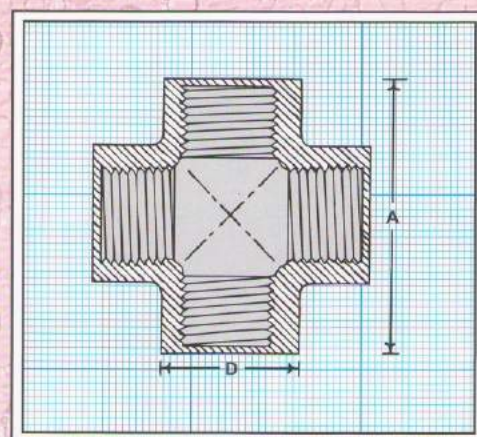
Nominal Size in mm	A in mm	B in mm
20X15	34	35
25X20	38	40
25X15	35	39
32x15	37	42
32X20	39	44
32x25	40	44
40X15	38	46
40x20	40	46
40X25	44	47
40X32	49	50
50x15	41	51
50X20	41	51
50x25	46	55
50x32	49	55
50X40	53	57
65X15	46	62
65X20	48	63
65X25	49	63
65X32	54	66
65X40	57	66
65X50	63	69
80X15	47	70
80x20	48	70
80X25	52	71
80x32	57	73
80X40	60	72
80x50	65	75
80X65	73	76
100x15	52	80
100X20	55	82
100x25	56	87
100X32	64	86
100X40	68	89
100X50	74	90
100X65	81	95

TEE



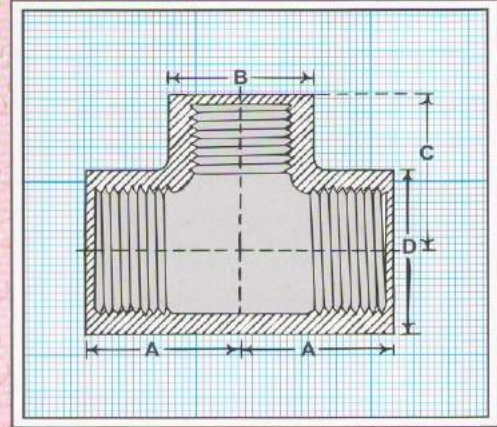
Nominal Size in mm	A in mm	D in mm
15	64	30
20	70	36
25	79	41
32	93	51
40	100	58
50	117	71
65	140	88
80	157	100
100	195	126
150	264	180

CROSS



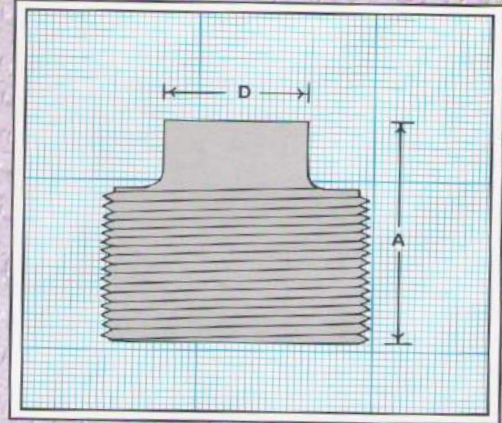
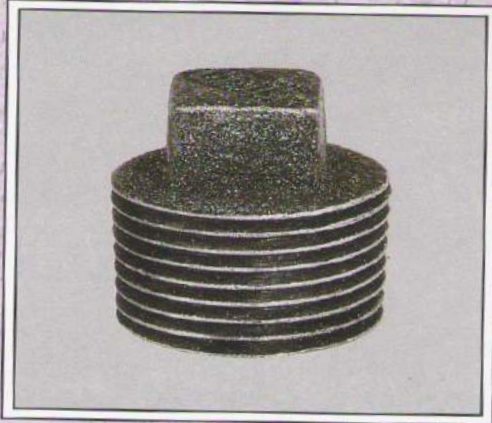
Nominal Size in mm	A in mm	D in mm
15	64	30
20	67	35
25	77	41
32	90	51
40	102	58

REDUCING TEE



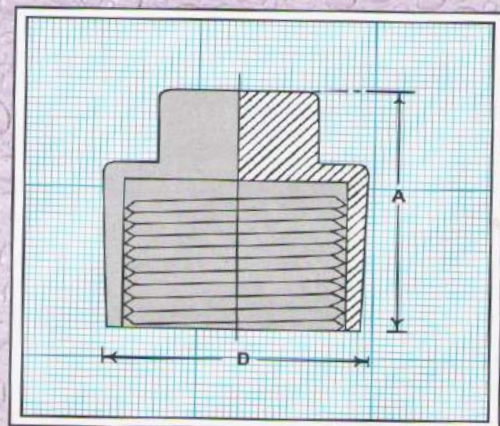
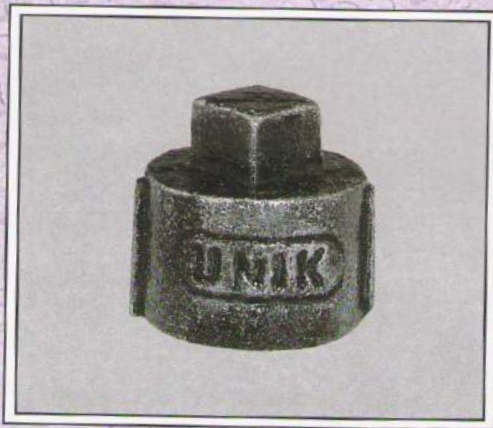
Nominal Size	A	B	C	D
in mm	in mm	in mm	in mm	in mm
20X15	33	30	36	36
25X15	33	30	37	42
25X20	35	36	37	42
32x15	36	30	42	51
32X20	37	35	44	51
32x25	40	42	45	51
40X15	38	30	47	58
40x20	40	36	47	58
40X25	43	42	48	58
40X32	47	51	48	58
50x15	38	30	52	71
50X20	41	36	53	71
50x25	45	41	54	71
50x32	45	51	55	71
50X40	52	58	58	71
65x50	62	71	56	88
80X15	50	30	67	100
80x20	51	36	71	100
80X25	51	41	71	100
80x32	56	51	72	100
80X40	58	58	71	100
80x50	64	71	71	100
80X65	72	88	72	100
100x15	52	30	82	126
100X20	53	36	82	126
100x25	57	41	83	126
100X32	62	51	87	126
100X40	65	58	87	126
100X50	72	71	89	126
100x65	78	88	89	126
100X80	86	100	92	126

PLUG



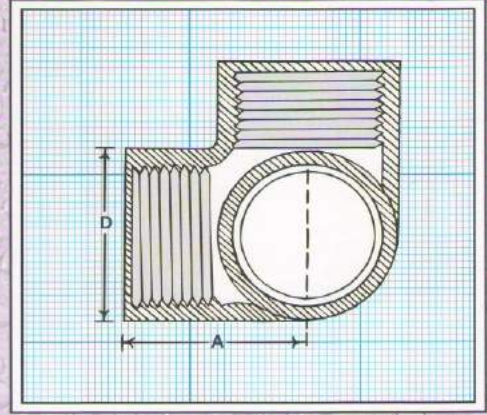
Nominal Size in mm	A in mm	D in mm
15	24	13
20	27	15
25	31	19
32	35	24
40	37	27
50	45	33
65	45	34
80	45	38
100	51	46

CAP PLUG



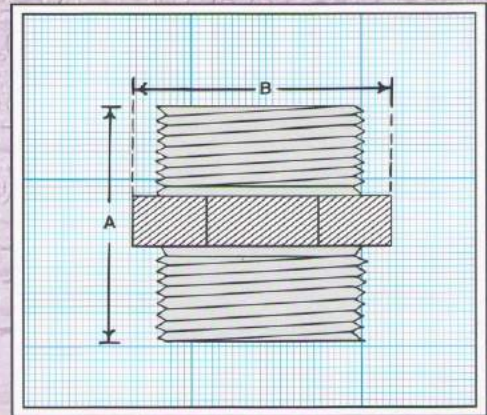
Nominal Size in mm	A in mm	D in mm
15	40	29
20	39	34
25	46	41
32	47	50
40	52	56
50	55	71
65	55	87

3- WAY ELBOW



Nominal Size in mm	A in mm	D in mm
15	34	30
20	38	36
25	43	42
32	45	50
40	52	57
50	60	71

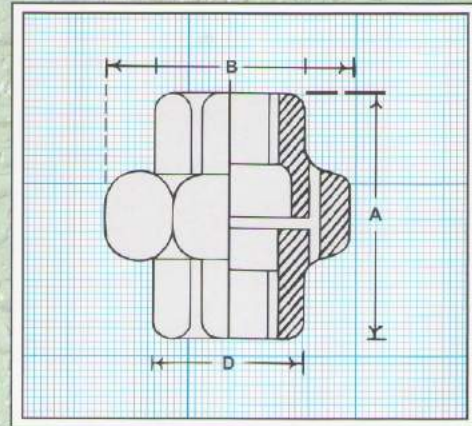
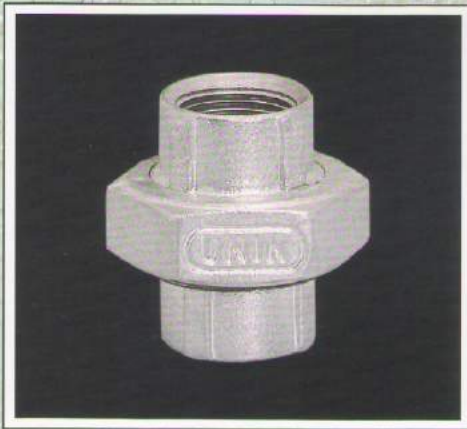
NIPPLE



Nominal Size in mm	A in mm	B in mm
15	49	27
20	54	30
25	61	38
32	66	47
40	71	54
50	81	67
65	90	84
80	99	96

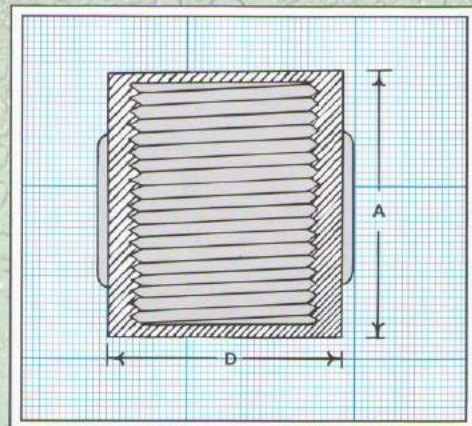


UNION



Nominal Size in mm	A in mm	B in mm	D in mm
15	53	46	30
20	58	55	36
25	68	64	41
32	73	75	51
40	74	84	58
50	79	95	71
65	89	113	88
80	99	131	100
100	110	153	127
150	146	223	182

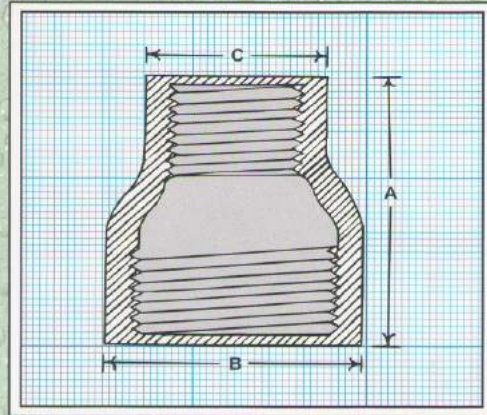
SOCKET



Nominal Size in mm	A in mm	D in mm
15	37	30
20	43	36
25	47	41
32	51	50
40	58	58
50	67	71
65	76	87
80	80	100
100	95	127
150	130	182

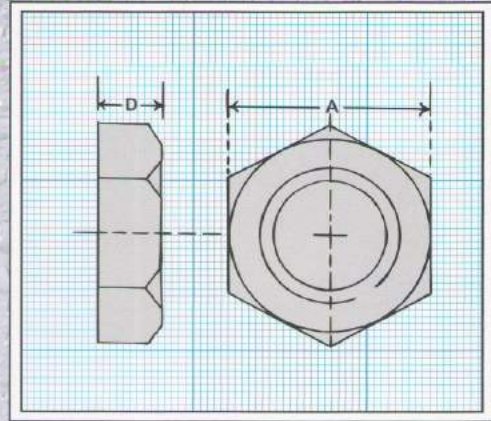


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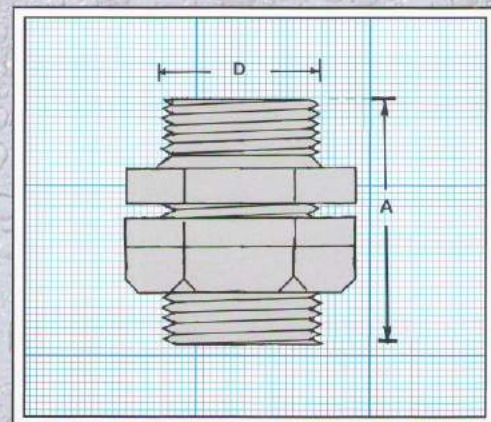
Nominal Size in mm	A in mm	B in mm	C in mm
20X15	44	36	30
25X15	47	41	30
25X20	47	41	36
32x15	53	50	30
32X20	53	50	41
32x25	53	50	41
40X15	56	58	30
40x20	57	58	36
40X25	57	58	41
40X32	59	58	50
50x15	69	71	30
50X20	67	71	36
50x25	65	71	41
50x32	66	71	50
50X40	66	71	58
65X15	76	87	30
65X20	75	87	36
65X25	77	87	41
65X32	77	87	50
65X40	76	87	58
65x50	76	87	71
80X15	86	100	30
80x20	86	100	36
80X25	84	100	41
80x32	83	100	50
80X40	83	100	58
80x50	83	100	71
80X65	83	100	87
100x15	98	126	30
100X20	96	126	36
100x25	96	126	41
100X32	95	126	50
100X40	95	126	58
100X50	95	126	71
100x65	95	126	87
100X80	95	126	100

CHECK - NUT



Nominal Size in mm	A in mm	D in mm
15	33	10
20	38	11
25	47	12
32	56	12
40	60	12
50	73	20

TANK NIPPLE



Nominal Size in mm	A in mm	D in mm
15	67	33
20	71	38
25	85	47
32	101	56
40	104	60
50	111	73