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about us



AVN Manufacturing Company

is one of the leading manufacturers of Malleable Galvanized Iron Pipe Fittings in India. Having the most modern manufacturing & testing facilities "NVR" Pipe Fittings are manufactured under strict quality controls, by a team of skilled work force under the rigorous and eagle eyed vigilance of a team of highly experienced & quality professionals. Our partners are large scale stockist, distributors all over India & abroad. We are striving to be an efficient & reliable partners to our customers. it is our aim to continuously upgrade our production technique in order to offer our stockists / distributors & consumers a excellent quality at reasonable price.

"NVR" brand Pipe Fittings

"NVR" brand Pipe Fittings enjoy a great reputation for its quality and durability all over India & abroad. "NVR" brand Pipe Fittings can very conveniently be assembled on to the pipes, owing to the dimensional accuracy of their threads, as also due to its premium composition alone, which results in a very fine grade of malleability, is what makes "NVR" pipe fittings the preferred choice of today's intelligent customer. "NVR" brand pipe fittings are manufactured keeping in mind that they are often used on underground & concealed piping installations and the fault, therefore, cannot easily be detected and rectified.

CEO message



My people are my strength & my real assets

As the Chairman of the company, all my thoughts and actions have been to enhance the life of my organization by serving the pipe fitting industry with complete dedication. The company is continuously focusing on its products along with development of new exports markets. Cost competitiveness Vis offering quality has always our unique selling proposition (USP). We are committed to adapt to new and innovative technologies and work practices to keep pace with the

changing times. This shall enable us to offer best products to our worthy customers at competitive price.

Our Endeavor has been always to ensure all round development of our people who play key role in our growth. In the present scenario of competition, we are striving hard to optimize all costs and improve sales realization so as to provide the maximum value to our business associates.

ARUN KAPOOR

partner's message



The Beginning

We look over our shoulders, we see the past. We use it to make a better present and a beautiful tomorrow, as tomorrow isn't just another day, it's another chance for us to better ourselves and to excel. We, at the NVR pipe fittings are continuously striving for synergy between technology, systems and human resources to provide products and services that meet the quality, performance, and price aspirations of the customers. While doing so, we maintain the highest standards of ethics and societal responsibilities, constantly innovate products and processes, and develop teams that keep the momentum going to take the group to excellence in everything we do.

NITIN KAPOOR

The Mission Statement

"It's our mission to strive for synergy between technology, systems and human resources, to produce products and services that meet the quality, performance and price aspirations of our customers. While doing so, we maintain the highest standards of ethics and societal responsibilities." This mission is what drives us to new heights in excellence and helps us forge a unique and mutually beneficial relationship with all our customers. We are committed to move ahead resolutely on this path, shown to us by our father Shri Arun Kapoor.

VINEET KAPOOR

process

01



Computerised Designing

02



Raw Material

05

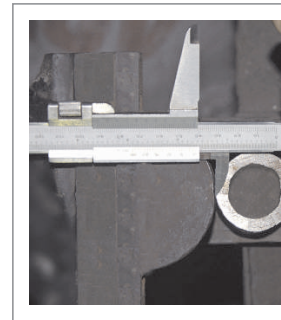


Induction Furnace

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Annealing Furnace



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Galvanizing

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Chamfering

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Finishing Process

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Pressure Testing



03



Chemical Testing

04



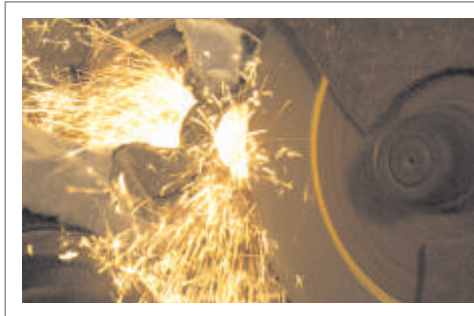
Shell Core Preparation

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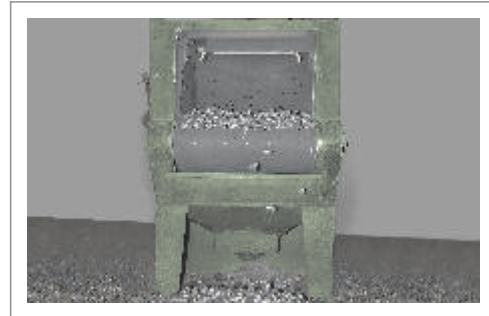
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Grinding

09



Shot Blasting

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Threading

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Inspection

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Packing

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Loading

18



Despatching

salient features

HIGHER MALLEABILITY

"NVR" 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.

SUPERIOR GALVANIZING

"NVR" Brand 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 surface without any black spots and as well as acid spots. In "NVR" 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

"NVR" brand Pipe Fittings are chamfered slightly at each end thread opening for easy entrance of pipe and correct first thread engagement.

THREADING

"NVR" 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 ground taps on automatic threading machines to ensure perfect thread alignment at correct angles so "NVR" 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.

test and working pressure

1. CHEMICAL TESTING

- a) Raw materials are tested for their required chemical composition before melting in the laboratory.
- b) Raw castings are also chemically tested for their compositions.
- c) Galvanized castings are tested to ensure the zinc coating is not less than the specified 610 gms/m² as per IS:6745-1972.

2. MICROSTRUCTURAL TESTING

It is done to ensure that the Fittings have acquired a desired micro structure after annealing.

3. VISUAL INSPECTIONS

Raw castings are subjected to strict visual inspection to ensure that there are no blow holes and are in proper shape and then annealed grinded and shot blasted castings are inspected and then inspections are made after galvanizing and then before dispatching.

mechanical tests

1. MALLEABILITY TEST

To ensure that the proper malleability has been acquired the malleability test is being performed.

2. PRESSURE TEST

Pressure test is being performed to check whether the fittings are leakproof or not.

3. TENSILE TEST

This test is performed to check whether the fittings are properly annealed and have attained the required tensile strength and elongation.

4. METROLOGICAL INSPECTION

This test is performed to ensure that the fittings have acquired correct alignment, overall dimensions, wall thickness with the help of suitable thread gauges and micrometers etc.

technical comparison

SPECIFICATIONS	NVR	BIS	ISO	JIS	BS
Angle Tolerance Degree (+ / -)	0.40	0.5	0.50	0.40	0.45
Min. Zinc Coating (Gms./m ²)	650	610	450	----	450
Max. Working Pressure (Kgf/cm ² hydraulic)	30	21.4	20	20	14
Min. Elongation (%)	10	6	6	5	6
Min. Tensile Strength (Kgf/mm ²)	33	30	30	28	28
Phosphorous (Max.) (%age)	0.12	0.15	----	----	----
Hardness (Max.) (BHN)	120 to 140	150	----	----	----

advantages

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

"NVR" 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 result as in considerable saving of time and labour cost. "NVR" brand pipe fittings are extensively used at following places

- a) Building Construction
- b) Agriculture
- c) Industries, Oil Refineries, Steel Plants, Shipyards and Thermal Plants.
- d) Other fields, Like City and Village water supply schemes.

"NVR" 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.

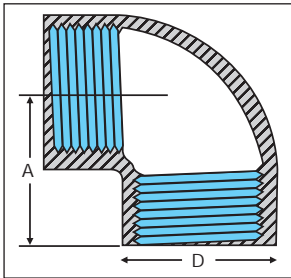
Important :

Owing to our ever continuous product development, dimensions and materials are subject to change without any prior notice. quality products and services with cost effectiveness.

products

elbow

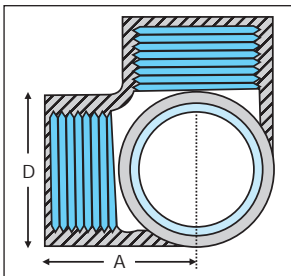
Free from Rust & Leakage
 Hot Galvanized with Thick Uniform Zinc Coating
 Best for Underground Installation
 Perfect Thread and Angle Alignment
 Heavy Pattern & Superb in Quality & Performance



Nominal SIZE in inches	Dimensions in mm (A)	Diameter in mm (D)	Weight in gm/per pc.
1/2"	29.50	30.00	128
3/4"	35.00	37.00	240
1"	40.00	42.00	276
1 1/4"	45.50	52.00	386
1 1/2"	51.00	56.00	518
2"	58.50	70.00	750
2 1/2"	69.50	86.00	1233
3"	78.00	100.00	1700
4"	99.00	126.00	2960

3-way elbow

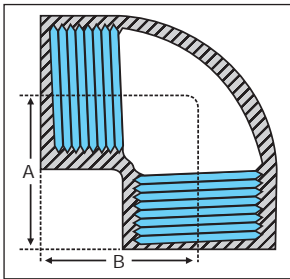
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Nominal SIZE in inches	Dimensions in mm (A)	Diameter in mm (D)	Weight in gm/per pc.
1/2"	28.00	29.00	142
3/4"	35.00	36.00	270
1"	38.00	40.00	290
1 1/4"	45.00	50.00	500
1 1/2"	50.00	56.00	610
2"	58.00	69.00	880

reducing elbow

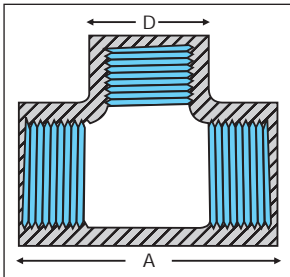
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Nominal SIZE in inches	Dimensions in mm		Diameter in mm		Weight in gm/per pc.	Nominal SIZE in inches	Dimensions in mm		Diameter in mm		Weight in gm/per pc.
	(A)	(B)	(D1)	(D2)			(A)	(B)	(D1)	(D2)	
3/4" x 1/2"	32.00	33.00	30.00	36.00	180	2 1/2" x 1 1/4"	52.50	63.00	57.00	86.00	980
1" x 1/2"	33.50	35.00	30.00	42.00	190	2 1/2" x 1 1/2"	55.00	65.00	57.00	86.00	1065
1" x 3/4"	36.50	37.50	36.00	42.00	240	2 1/2" x 2"	61.00	66.00	70.00	86.00	1150
1 1/4" x 1/2"	35.50	40.50	30.00	52.00	293	3" x 1/2"	45.00	64.50	30.00	100.00	975
1 1/4" x 3/4"	38.00	43.00	36.00	52.00	300	3" x 3/4"	47.00	66.50	36.00	100.00	1005
1 1/4" x 1"	41.50	43.50	42.00	52.00	358	3" x 1"	51.00	67.00	42.00	100.00	1170
1 1/2" x 1/2"	37.00	44.00	30.00	57.00	322	3" x 1 1/4"	55.00	70.00	52.00	100.00	1200
1 1/2" x 3/4"	40.00	45.50	36.00	57.00	335	3" x 1 1/2"	58.00	72.00	57.00	100.00	1220
1 1/2" x 1"	43.00	47.50	42.00	57.00	375	3" x 2"	64.00	73.00	70.00	100.00	1433
1 1/2" x 1 1/4"	47.50	49.50	52.00	57.00	470	3" x 2 1/2"	73.00	76.00	86.00	100.00	1650
2" x 1/2"	40.00	50.00	30.00	70.00	472	4" x 1/2"	50.00	78.00	30.00	126.00	1600
2" x 3/4"	42.50	52.00	36.00	70.00	490	4" x 3/4"	56.00	80.00	36.00	126.00	1650
2" x 1"	46.00	53.00	42.00	70.00	570	4" x 1"	58.00	81.00	42.00	126.00	1710
2" x 1 1/4"	50.00	55.00	52.00	70.00	654	4" x 1 1/4"	58.00	82.00	52.00	126.00	1845
2" x 1 1/2"	54.00	57.00	57.00	70.00	676	4" x 1 1/2"	64.00	85.00	57.00	126.00	2100
2 1/2" x 1/2"	41.50	57.00	30.00	86.00	704	4" x 2"	70.00	86.00	70.00	126.00	2300
2 1/2" x 3/4"	44.00	59.50	36.00	86.00	840	4" x 2 1/2"	76.00	90.00	86.00	126.00	2850
2 1/2" x 1"	47.00	61.00	42.00	86.00	860	4" x 3"	84.00	92.00	100.00	126.00	2900

tee

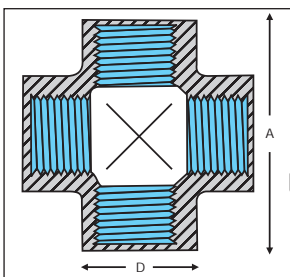
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 Perfect Thread and Angle Alignment
 Heavy Pattern & Superb in Quality & Performance



Nominal SIZE in inches	Dimensions in mm (A)	Diameter in mm (D)	Weight in gm/per pc.
1/2"	29.50	30.00	175
3/4"	34.00	36.00	268
1"	38.50	42.00	345
1 1/4"	45.50	52.00	574
1 1/2"	51.00	57.00	700
2"	58.50	70.00	970
2 1/2"	69.50	86.00	1466
3"	78.00	100.00	2200
4"	96.50	126.00	3800

cross

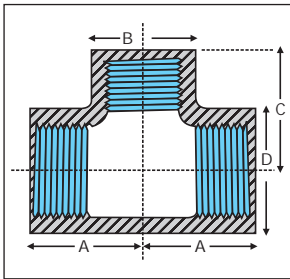
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Nominal SIZE in inches	Dimensions in mm (A)	Diameter in mm (D)	Weight in gm/per pc.
1/2"	28.00	28.00	170
3/4"	35.00	36.00	314
1"	38.00	40.00	350
1 1/4"	45.00	50.00	550
1 1/2"	50.00	55.00	666
2"	58.00	69.00	1100

reducing tee

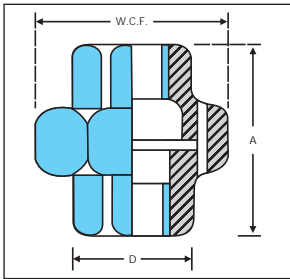
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Nominal SIZE in inches	Dimensions in mm		Diameter in mm		Weight in gm/per pc.	Nominal SIZE in inches	Dimensions in mm		Diameter in mm		Weight in gm/per pc.
	(A)	(B)	(D1)	(D2)			(A)	(B)	(D1)	(D2)	
3/4" x 1/2"	32.00	33.00	30.00	36.00	240	2 1/2" x 1 1/4"	52.00	62.50	52.00	86.00	1190
1" x 1/2"	32.00	34.50	30.00	42.00	265	2 1/2" x 1 1/2"	55.00	64.50	57.00	86.00	1300
1" x 3/4"	35.00	36.50	36.00	42.00	297	2 1/2" x 2"	60.00	65.50	70.00	86.00	1380
1 1/4" x 1/2"	35.00	39.50	30.00	52.00	377	3" x 1/2"	45.00	64.50	30.00	100.00	1330
1 1/4" x 3/4"	36.50	42.00	36.00	52.00	400	3" x 3/4"	47.00	66.50	36.00	100.00	1385
1 1/4" x 1"	40.50	43.00	42.00	52.00	455	3" x 1"	51.00	67.00	42.00	100.00	1440
1 1/2" x 1/2"	37.00	43.50	30.00	57.00	443	3" x 1 1/4"	55.00	70.00	52.00	100.00	1585
1 1/2" x 3/4"	38.50	45.00	36.00	57.00	457	3" x 1 1/2"	58.00	71.00	57.00	100.00	1670
1 1/2" x 1"	42.50	47.50	42.00	57.00	507	3" x 2"	63.50	73.00	70.00	100.00	1790
1 1/2" x 1 1/4"	47.00	49.50	52.00	57.00	583	3" x 2 1/2"	72.00	76.00	86.00	100.00	1975
2" x 1/2"	39.00	49.00	30.00	70.00	628	4" x 1/2"	50.00	78.00	30.00	126.00	1800
2" x 3/4"	41.00	51.00	36.00	70.00	660	4" x 3/4"	56.00	80.00	36.00	126.00	1820
2" x 1"	44.50	53.00	42.00	70.00	708	4" x 1"	58.00	81.00	42.00	126.00	1850
2" x 1 1/4"	49.00	55.50	52.00	70.00	820	4" x 1 1/4"	58.00	82.00	52.00	126.00	2205
2" x 1 1/2"	53.00	56.00	57.00	70.00	900	4" x 1 1/2"	64.00	85.00	57.00	126.00	2300
2 1/2" x 1/2"	41.00	57.00	30.00	86.00	985	4" x 2"	70.00	86.00	70.00	126.00	2515
2 1/2" x 3/4"	43.50	59.00	36.00	86.00	1040	4" x 2 1/2"	76.00	90.00	86.00	126.00	2690
2 1/2" x 1"	47.00	60.00	42.00	86.00	1090	4" x 3"	84.00	92.00	100.00	126.00	3380

union

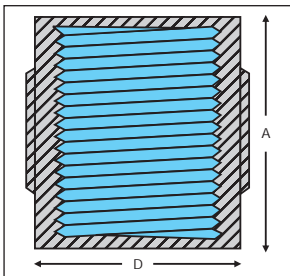
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Nominal SIZE in inches	Dimensions in mm (A)	Diameter in mm (D)	Weight in gm/per pc.
1/2"	48.20	30.00	260
3/4"	52.20	36.00	343
1"	59.00	42.00	475
1 1/4"	66.50	52.00	660
1 1/2"	71.00	57.00	774
2"	79.00	70.00	1175
2 1/2"	85.00	86.00	1875
3"	95.00	100.00	2555
4"	111.00	126.00	4050

socket

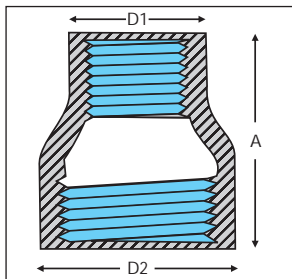
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1/2"	36.20	30.00	95
3/4"	39.20	36.00	140
1"	45.20	42.00	178
1 1/4"	50.30	52.00	266
1 1/2"	55.30	57.00	330
2"	65.00	71.00	575
2 1/2"	73.50	87.00	916
3"	80.50	100.00	1266
4"	95.00	126.00	1623

reducing socket

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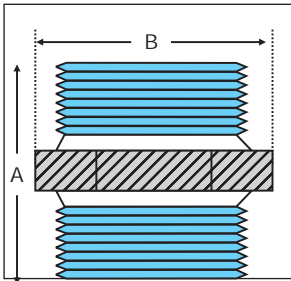


Nominal SIZE in inches	Dimensions in mm (A)	Diameter in mm		Weight in gm/per pc.
		(D1)	(D2)	
3/4" x 1/2"	40.50	30.00	36.00	122
1" x 1/2"	46.50	30.00	42.00	156
1" x 3/4"	46.50	30.00	42.00	170
1 1/4" x 1/2"	51.00	30.00	52.00	240
1 1/4" x 3/4"	51.00	36.00	52.00	250
1 1/4" x 1"	51.00	42.00	52.00	258
1 1/2" x 1/2"	56.50	30.00	57.00	296
1 1/2" x 3/4"	56.50	36.00	57.00	300
1 1/2" x 1"	56.50	42.00	57.00	310
1 1/2" x 1 1/4"	56.50	52.00	57.00	317
2" x 1/2"	67.00	30.00	70.00	495
2" x 3/4"	67.00	36.00	70.00	500
2" x 1"	67.00	42.00	70.00	510
2" x 1 1/4"	67.00	52.00	70.00	520
2" x 1 1/2"	67.00	57.00	70.00	532
2 1/2" x 1/2"	75.00	30.00	86.00	690
2 1/2" x 3/4"	75.00	36.00	86.00	720
2 1/2" x 1"	75.00	42.00	86.00	750

Nominal SIZE in inches	Dimensions in mm (A)	Diameter in mm		Weight in gm/per pc.
		(D1)	(D2)	
2 1/2" x 1 1/4"	75.00	52.00	86.00	738
2 1/2" x 1 1/2"	75.00	57.00	86.00	740
2 1/2" x 2"	75.00	70.00	86.00	750
3" x 1/2"	80.50	30.00	100.00	880
3" x 3/4"	80.50	36.00	100.00	885
3" x 1"	80.50	42.00	100.00	890
3" x 1 1/4"	80.50	52.00	100.00	910
3" x 1 1/2"	80.50	57.00	100.00	930
3" x 2"	80.50	70.00	100.00	940
3" x 2 1/2"	80.50	86.00	100.00	950
4" x 1/2"	96.50	30.00	126.00	1405
4" x 3/4"	96.50	36.00	126.00	1420
4" x 1"	96.50	42.00	126.00	1440
4" x 1 1/4"	96.50	52.00	126.00	1455
4" x 1 1/2"	96.50	57.00	126.00	1480
4" x 2"	96.50	70.00	126.00	1500
4" x 2 1/2"	96.50	86.00	126.00	1583
4" x 3"	96.50	100.00	126.00	1600

nipple

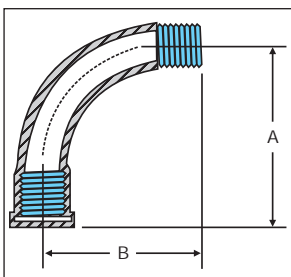
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Nominal SIZE in inches	Dimensions in mm (A)	Flat to Flat in mm (D)	Weight in gm/per pc.
1/2"	46.00	26.00	84
3/4"	49.00	32.00	151
1"	55.50	40.00	215
1 1/4"	59.00	49.00	287
1 1/2"	61.00	52.00	372
2"	70.00	65.00	564
2 1/2"	77.00	85.00	780
3"	85.00	99.00	1125
4"	97.00	126.00	1800

bend

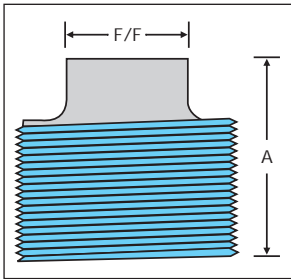
Free from Rust & Leakage
 Hot Galvanized with Thick Uniform Zinc Coating
 Best for Underground Installation
 Perfect Thread and Angle Alignment
 Heavy Pattern & Superb in Quality & Performance



Nominal SIZE in inches	Dimensions in mm		Diameter in mm (D)	Weight in gm/per pc.
	(A)	(B)		
1/2"	55.00	48.00	30.00	155
3/4"	69.00	50.00	36.00	250
1"	85.00	75.00	42.00	384
1 1/4"	105.00	95.00	52.00	710
1 1/2"	116.00	105.00	57.00	900
2"	140.00	130.00	70.00	1490

plug

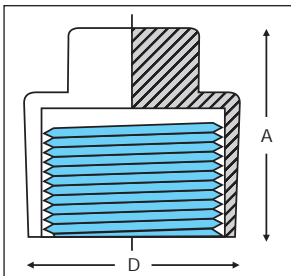
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Nominal SIZE in inches	Dimensions in mm (A)	Flat to Flat in mm (F/F)	Weight in gm/per pc.
1/2"	24.00	13.00	050
3/4"	27.00	15.00	050
1"	31.00	19.00	090
1 1/4"	35.00	24.00	175
1 1/2"	37.00	27.00	230
2"	45.00	33.00	370
2 1/2"	45.00	34.00	460
3"	45.00	38.00	590
4"	51.00	46.00	1100

cap plug

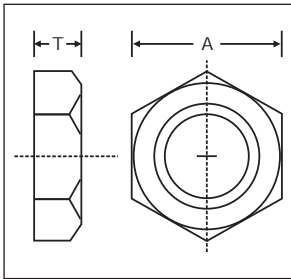
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Nominal SIZE in inches	Dimensions in mm (A)	Diameter in mm (D)	Weight in gm/per pc.
1/2"	40.00	29.00	080
3/4"	39.00	34.00	120
1"	46.00	41.00	160
1 1/4"	47.00	50.00	280
1 1/2"	52.00	56.00	350
2"	55.00	71.00	500
2 1/2"	55.00	87.00	580
3"	59.00	101.00	980
4"	70.00	126.00	1350

check nut

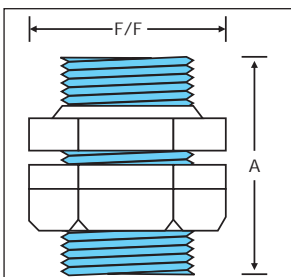
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Nominal SIZE in inches	Dimensions in mm (A)	Thickness in mm (T)	Weight in gm/per pc.
1/2"	33.00	10.00	45
3/4"	38.00	11.00	54
1"	47.00	12.00	84
1 1/4"	56.00	12.00	110
1 1/2"	60.00	12.00	120
2"	73.00	20.00	340

tank nipple

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Nominal SIZE in inches	Dimensions in mm (A)	Flat to Flat in mm (F/F)	Weight in gm/per pc.
1/2"	63.00	25.00	154
3/4"	74.00	33.00	190
1"	86.00	41.00	326
1 1/4"	102.00	50.50	548
1 1/2"	104.00	60.00	830
2"	111.00	73.00	1325



make every drop count.
Save Water



Manufactured By : **AVN MANUFACTURING CO.**
Jalandhar -144 004 (INDIA).