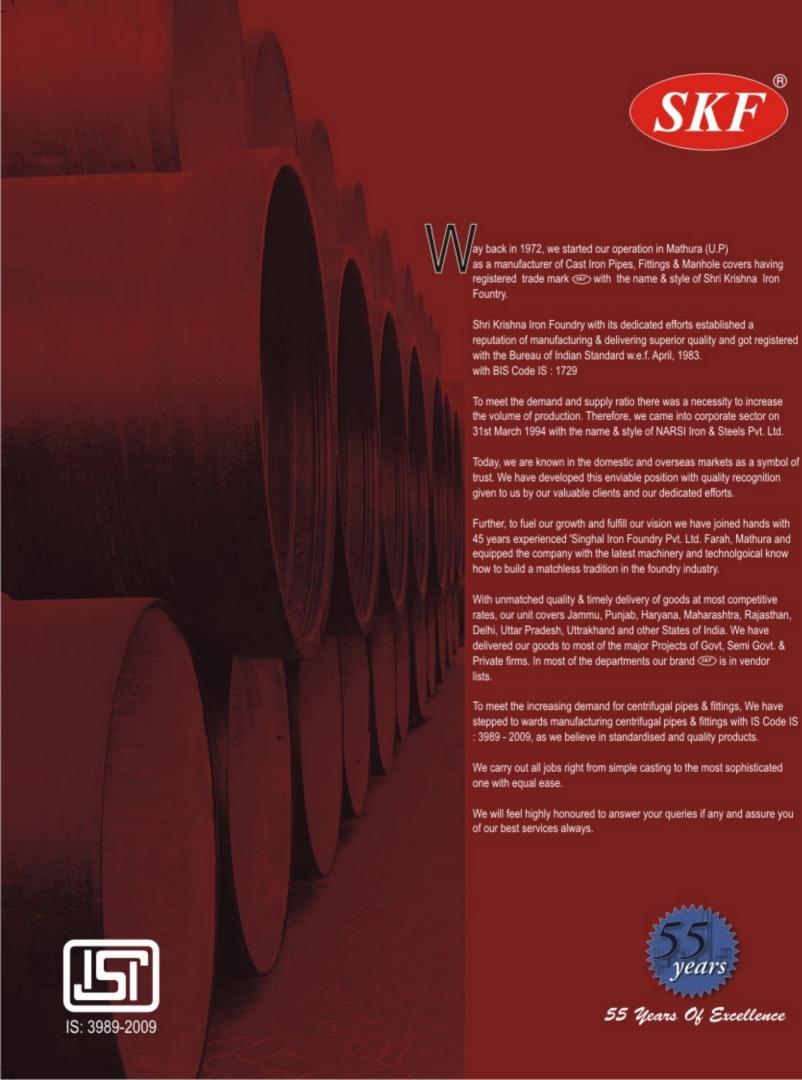


Foremost Quality Centrifugally Cast Iron Pipes, Fittings for Soil Waste, Vent, Rainwater & Manhole Covers











Manufacturing Process Chart

RAW MATERIAL (INSPECTION FOR CHEMICAL ANALSIS)

MELT IN DIVIDING BLAST COUPLA

(CONTINUOUS INSPECTION OF MOLTEN METAL FOR CHEMICAL COMPOSITION, TEMPERATURE AND CARBON EQUIVALENT)

FITTINGS PRODUCTION

PIPES PRODUCTION

VISUAL INSPECTION FOR SURFACE FINISH & PROPER CASTING

CHIPPING & HAMMER TEST

BRUSHING & GRINDING

HYDROSTATIC TEST

COATING AND MARKING PIPES, FITTINGS

STOCK YARD











The durability and quality of (is superior to any other brand due to the following characteristics :

Suitable for the application of soil, waste, ventilation and rain water disposal in the building drainage system.
 Products conforms the specifications of IS: 3989 - 2009.

Available in the normal size of: 50 mm, 75 mm, 100mm, 150mm & 200mm.

Chemical Properties:

C - 3.5 % 3.75 % Si - 1.8 % to 2.3 %

CE - 4.3

Tests Applied:

Hammer Test: For clear ringing soundness of casting. Hydrostatic Test (Internal): It should bear water Pressure at min 0.7 Kg/cm² for at least 15 secs. time Coating Test: For no brittle at 0° C and no flow up to 65 0° C temperature.

Mechanical Properties:

Material Grade - FG 150 as per IS:210

Density - 7.15 kg/m³

Tensile Strength - 150 N/m² minimum

Hardness - 215 IID maximum as per IS:1500

Marking:

All Pipes & Fittings carry the brand name mark nominal diameter, symbol with code, licence No. & last two digits of the year of manufacturing.

WHY CAST IRON PIPES & FITTING ONLY

Durability & Long Life is a proven and time tested in cast iron. Experience of thousands of users for a century and more laid Cast iron pipes because it fulfills all the requirements of the drainage system. Cast iron pipes have more standing **high pressure resistance** to wear & tear, resistance to corrosion to a great extent. Resistance to abrasion from any type of disposal residue, resistance to temperature.

Cast iron pipes are **environment friendly**. It can be recycled 100%. **Co-efficient of thermal expansion and contraction in C.I. material is very low,** hence it is not only fire proof but chances of deformation in the size & length of Pipes & Fittings are negligible by any change in temperature. In case of fire it will not produce any smoke poisonous & toxic gasses, resulting to which its easy for fireman while entering the building. **C.I.** can stand up to temperature of 400°C and have good bonding property with concrete hence does **not leak at the joints** of its with building.

C.I. drainage system can be cleaned with push or sharp rod. C.I. is the toughest material and it could be concealed in the building. Because of its strength and resistance from damaging, C.I. has Nil Maintenance cost and securing salvage value.

Cast Iron is the ideal drainage system.

COMPARISON AT A GLANCE BETWEEN uPVC PIPES AND 'SKF' C.I. SOIL PIPES & FITTINGS:

Specific density of C.I. is higher by 5700 kg/m³. Tensile strength is higher by 95 N/m², Compressive strength is higher by 540 N/m², Coefficient of thermal expansion of C.I. is low by 0.06 mm/m°C, impact strength, abrasion resistence & lateral strength is high of cast iron.

COMPARISON AT A GLANCE BETWEEN \ 'SKF' C.I. SOIL PIPES & FITTINGS AND HEST & CEMENT PIPES:

Cast iron pipe is 6.68 times stronger than hest & cement pipe to bear beam loads and 3.51 time stronger for resisting internal pressure.

Cast iron pipes have full recovery of value on demolition of building or its removal for renovations.







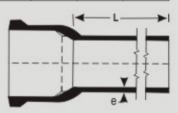


DIMENSIONS OF STRAIGHT PIPES, SOCKETS AND SPIGOTS

MASS & DIMENSIONS OF SOCKET AND SPIGOT OF PIPES

NOMINAL DIAMETER	THICKNESS	0.0000000000000000000000000000000000000		E MASS I PIPES O			
DN	Ø	3.00m (kg)	2.50m (kg)	2.00m (kg)	1.80m (kg)	1.50m (kg)	1.00m (kg)
75	3.5	20.0	16.8	13.8	12.5	10.6	7.4
100	4.0	30.0	25.5	21.0	18.8	16.0	11.2
150	5.0	56.0	47.0	38.5	34.9	29.5	21.0
200	6.0	90.0	70.9	56.7	51.0	42.5	33.0

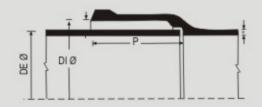
Dimensions are in mm



MASS & DIMENSION OF SOCKETS AND SPIGOT OF PIPES

NOMINAL DIAMETER	BAR	REL	soc	KET	JOINT THICKNESS
DN	е	DE	DI	Р	F
75	3.5	83	99	65	8.0
100	4.0	109	126	70	8.5
150	5.0	161	179	75	9.0
200	6.0	212	242	85	15.0

Dimensions are in mm





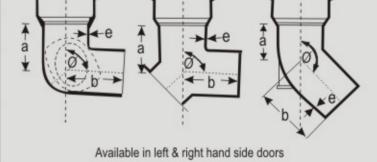






BENDS WITH AND WITHOUT ACCESS DOORS

ANGLE	NOMINAL DIAMETER	DIMENSIONS			APPROXIMATE MASS OF BEND (kg)			
Ø	DN	е	а	b	Plain	with Door	with Heel Rest	
92°	75 100 150 200	3.5 4.0 5.0 6.0	78 91 117 165	140 157 186 285	2.4 3.8 7.9 17.0	2.8 4.4 8.7	2.7 4.3 8.7	
135°	75 100 150 200	3.5 4.0 5.0 6.0	47 53 65 80	104 114 129 206	2.1 3.3 6.5 15.0	2.5 3.9 7.3	2.4 3.8 7.3	



Dimensions are in mm

EQUAL BRANCHES WITH AND WITHOUT ACCESS DOORS

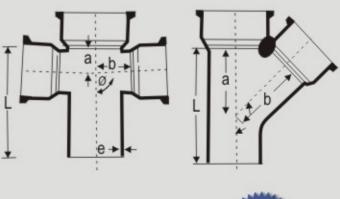
ANGLE	NOMINAL DIAMETER		DIMEN	ISIONS	3	MAS	XIMATE S OF BRANCH	APPROXIMATE MASS OF DOUBLE BRANCH	
ø	DN	е	L	а	b	Plain (kg)	with Door (kg)	Plain (kg)	with Door (kg)
92°	75 100 150 200	3.5 4.0 5.0 6.0	207 238 294 385	52 66 93 125	52 66 93 125	3.6 5.7 11.4 23.5	4.0 6.3 12.2	4.6 7.2 14.3	5.0 7.8 15.1
135°	75 100 150 200	3.5 4.0 5.0 6.0	233 276 355 460	119 152 216 295	119 152 216 300	4.1 6.6 14.0 35.0	4.5 7.2 14.8	5.3 8.6 17.2	5.7 9.4 18.0

Dimensions are in mm

UNEQUAL BRANCHES WITH AND WITHOUT ACCESS DOORS

ANGLE		IINAL ETER	DIMENSIONS			MAS	XIMATE S OF BRANCH	APPROXIMATE MASS OF DOUBLE BRANCH		
Ø	Body DN	Branch Pipe DN	е	L	а	b	Plain (kg)	with Door (kg)	Plain (kg)	with Door (kg)
92°	75 100 100 150 200 200	50 50 75 100 100 150	3.5 3.5 4.0 5.0 6.0 6.0	181 190 211 242 325 325	39 40 52 67 100 125	51 63 65 92 160 175	3.1 4.2 4.9 9.1 17.5 18.0	3.5 4.8 5.5 9.9	3.8 4.8 6.0 10.5	4.2 5.4 6.6 11.3
135°	75 100 100 150 200 200 200	50 50 75 100 75 100 150	3.5 4.0 5.0 6.0 6.0 6.0	197 210 239 283 355 355 355	101 115 133 179 200 230 275	106 125 139 190 210 250 295	3.3 4.3 5.5 10.6 17.0 20.9 26.0	3.7 4.9 6.1 11.4	4.0 5.2 6.4 12.3	4.4 5.8 7.0 13.1

Dimensions are in mm





55 Years Of Excellence







FLOOR TRAP

P-TRAP

ANGLE	NOMINAL DIAMETER		DIMENSIONS							Approximate Mass	
	DN	е	а	b	С	d	L	f	g	(Kg)	
95°	75 100 150	3.5 4.0 5.0	170 214 285	105 116 140	275 330 425		110 135 186	55 71 98	165 206 284	4.3 7.0 10.5	
135°	75 100 150	3.5 4.0 5.0	170 214 285	149 175 235	277 338 455	25 32 39	110 135 186	55 71 98	165 206 284	4.3 7.0 10.5	
180°	75 100 150	3.5 4.0 5.0	170 214 285	159 184 239	231 291 387		110 135 186	55 71 98	165 205 284	4.3 7.0 10.5	

Dimensions are in mm

NOMINAL Approximate DIMENSIONS DIAMETER Mass (Kg) b DN a C d е g 225 296 100 165 170 105 275 40 3.5 4.8 200 214 116 330 60 4.0 90 206 7.5

NOMINAL

DIAMETER

DN 75

100

150

75

100

150

75

100

150

OFFSET

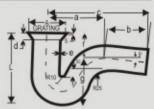
Е

75

115

150

Dimensions are in mm



DIMENSIONS

4.0 250 5.0 275

4.0 250

5.0 290

45 3.5 225

55 75

45 3.5 225

55 75

45 3.5 225

55 75 4.0 5.0 250 300 **OFFSET**

Approximate

Mass (Kg)

2.7

4.3

8.4

2.9

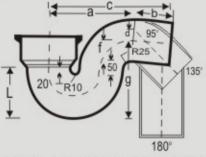
4.5

8.8

3.1

4.8

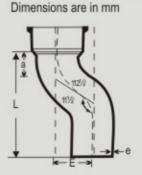
9.5



EQUAL & UNEQUAL BRANCHES SOCKET TYPE

ANGLE	NON DIAN		DIN	Approximate Mass				
	Body DN	Branch DN	a	b	Е	L	е	(Kg)
95°	100 100	100 50	98 70	66 63	:	276 210	4.0 4.0	6.0 4.4
112°	100 100	100 50	79 54	91 85	:	276 210	4.0 4.0	6.1 4.5
180°	100 100	100 50	98 70	102 90	167 140	276 210	4.0 4.0	6.5 5.0

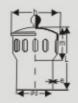
Dimensions are in mm



COWEL

NOMINAL DIAMETER		DIN	Approximate Mass			
DN	е	m	d	L	h	(Kg)
75 100 150	3.5 4.0 5.0	95 110 110	82 109 161	175 200 210	115 145 195	1.5 2.7 5.8

Dimensions are in mm





55 Years Of Excellence



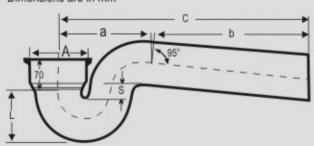




LONG ARM P-TRAP

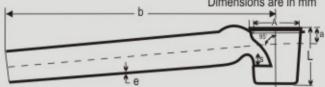
NOMINAL DIAMETER		DIN	Approximate Mass				
DN	Α	а	b	С	L	s	(Kg)
100	128	189	440	629	140	50	11.0

Dimensions are in mm



SIZE		DIM	Approximate Mass				
	Α	а	b	е	L	s	(Kg)
100 x 75 x 500 100 x 75 x 300	121 121	55 60	645 455	5 5	135 130	25 25	9.0 6.0

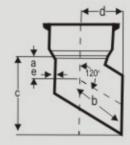
Dimensions are in mm



SHOE BEND

NOMINAL DIAMETER		DIN	Approximate Mass			
DN	а	b	С	(Kg)		
75 100	38 52	75 92	117 161	64 80	3.5 4.0	2.0 2.8
150	55	23	200	105	5.0	4.5

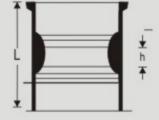
Dimensions are in mm



COLLARS

NOMINAL DIAMETER	DIMEN	ISION	Approximate Mass
DN	DN L h		(Kg)
75 100 150 200	150 160 170 195	20 20 20 25	2.3 3.4 6.4 11.5

Dimensions are in mm



SINGHAL IRON FOUNDRY PVT. LTD (Founders, Engineers & Approved Govt. Order Suppliers)

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Factory: Farah, Mathura (U. P.) India Cell: 98370 36120, 98370 42988 Email: gmskfcipipes@gmail.com

