

IS:4984:2016	: HDPE PIPES
IS:14333:1996	: HDPE PIPES
IS:16205 Part 24	: DWC PIPES
ISO:4427	: MDPE PIPES
ISO:4437	: GAS PIPES
TAC Approved	: PLB Duct
	: SWC PIPES



## Electro-Fusion Fittings



HDPE Pipes  
PLB Duct - TEC  
Gas Pipe  
MDPE Pipes  
Single Wall Corrugated Pipes  
Compression Fittings  
Butt Fusion Fittings

**SUDARSHAN PIPES EXTRUSIONS PVT. LTD**  
**BANGALORE (INDIA)**

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SUDHARSHAN PIPES EXTRUSIONS PVT. LTD BANGALORE, SOUTH INDIA LARGEST MANUFACTURING Unit of HDPE Pipes – IS :4984/IS:14333 – 20 MM to 400 MM - 24000 MTP and Fittings-200MTP. 1<sup>ST</sup> unit of south India manufacturing Electro Fusion fittings from 20 MM to 250 MM - COUPLER/ TEE/ ELBOW/ REDUCER/ SADDLE/ TAPPING SADLE, BUTT FUSION/ SPIGOT FITTINGS/ FABRICATED FITTINGS from 63 MM to 400 MM, MDPE Pipes and Compression fittings ELBOW/FTA/MTA/FTE/MTE/ENDCAP –20 MM /25 MM.

SUDHARSHAN PIPES is empaneled under JAL JEEVAN Mission/Amruth-II / 24x7 water project with RDWSDB - Karnataka, KUIDFC, KUWSDB, Kerala water authority, MP Jal Nigam, Maharashtra Jeevan Pradhikaran and TWAD Board. SUDHARSHAN PLB DUCT is having Type Approval certificate (TAC) from Government of India, Department of Telecommunication. Supplying HDPE Pipes with various 24x7 water projects & multi village scheme of Karnataka, Kerala, Tamil Nadu and MP. SUDHARSHAN PLB DUCT are supplied to various projects of Indian Railway and Telecommunication companies with RITES & BSNL Inspection.

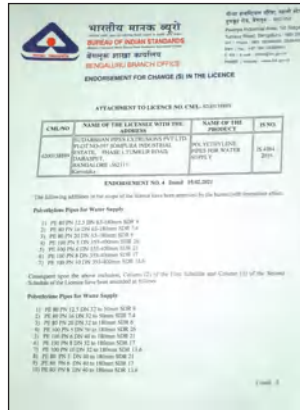
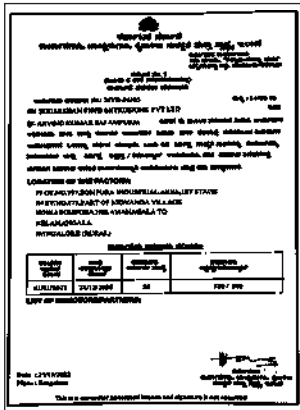
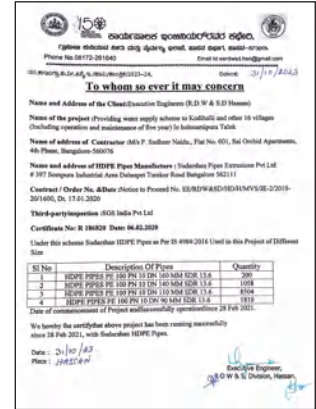
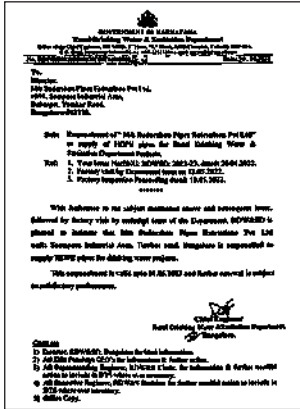
SUDHARSHAN Pipes has planned to expand its business by manufacturing higher Dia HDPE Pipe from 400 MM to 840 MM, DWC Pipes from 50 MM to 500 MM, Gas Pipe Line by making New Investment of Rs.50 Crore at Proposed Dabaspeth VI phase plant during 2024-25 for complete piping solution of Infrastructure project and be a leading Indian company with 1000 Crore turnover by 2027.

SUDHARSHAN Pipes – PVC Division – M/S Sudarshan Extrusion Pvt Ltd, manufacturing PVC pipes / column pipes at Bommasandra Industrial Area, Bangalore has also planned to set up a new plant at Dabaspeth VI Phase with Rs.50 Crore investment to manufacture OPVC Pipes, CPVC Pipes and fittings, water tanks and agriculture pipes and fittings.

[www.sudarshanpipes.com](http://www.sudarshanpipes.com)

Since : 2003

Sudarshan Pipes Extrusions Pvt. Ltd is largest manufacturer of HDPE Pipes & fittings in south India, Having annual capacity of 30,000 mtp, state of art plant at Bangalore, confirming all Indian & International standards - ISO9001-2015 certified company we provide complete piping solutions.



**Our Clients**







HDPE Extrusions Division, UNIT-I, Plant Area-III, Dabaspet, Tumkur Road, Bangalore



HDPE Extrusions Division, UNIT-I, Plant Area-III, Dabaspet, Tumkur Road, Bangalore



HDPE Fitting Division, UNIT-I, Plant Area-II, Dabaspet, Tumkur Road, Bangalore

Sudarshan HDPE pipes are supplied throughout Karnataka, Kerala and Tamilnadu in more than 2000 JJM project as well as more than twenty multi village scheme - Mysore, Mandya, Hassan, Simoga, Belgavi district of Karnataka successfully.

Sudarshan pipes are supplied to L & T under KUIDFC, world bank funded project of 24\*7 water supply - Hubli, Belgavi and Kalaburagi.

Sudarshan pipes is Largest HDPE pipe Manufacturer in South India.

## Sudarshan HDPE Pipes are available in PE 63/ PE 80 / PE 100 as per IS: 4984 : 2016 /Sewerage, Drainage Pipe IS : 14333 (Revised)

SDR	SDR 41	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6			
	Nominal Pressure (PN) Bar												
PE63	PN 2	PN 2.5	PN 3.2	PN 4	PN 5	PN 6	PN 8	-	-	-			
PE80	PN 2.5	PN 3.2	PN 4	PN 5	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20			
PE100	PN 3	PN 4	PN 5	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20	-			
	Wall Thickness												
Nominal OD DNh in mm	eMin mm	eMax mm	eMin mm	eMax mm	eMin mm	eMax mm	eMin mm	eMax mm	eMin mm	eMax mm			
16								1.8	2.1	2.2	2.5	2.7	3.1
20							1.9	2.2	2.6	2.7	3.1	3.4	3.8
25						1.9	2.2	2.8	3.2	3.4	3.8	4.2	4.7
32				1.9	2.2	2.4	2.7	3.6	4.1	4.4	4.9	5.4	6
40				1.9	2.4	2.7	3	4.5	5.1	5.4	6	6.7	7.5
50			2	2.3	2.7	3	3.4	5.6	6.3	6.8	7.6	8.4	9.3
63			2.5	2.9	3.4	3.7	4.2	7	7.8	8.6	9.6	10.5	11.7
75	1.9	2.2	2.6	3.3	4.1	4.5	5.1	8.4	9.3	10.2	11.3	12.5	13.9
90	2.2	2.5	3.2	4	4.8	5.3	5.9	10	11.1	12.2	13.5	15	16.6
110	2.7	3.1	3.4	3.8	4.3	4.8	5.3	12.3	13.6	14.9	16.5	18.4	20.3
125	3.1	3.5	3.8	4.3	4.8	5.3	5.9	13.9	15.4	16.9	18.7	20.9	23.1
140	3.5	4	4.3	4.8	5.3	5.9	6.7	15.6	17.3	19	21	23.4	25.8
160	3.9	4.4	4.9	5.5	6.2	6.9	7.5	17.8	19.7	21.7	24	26.7	29.5
180	4.4	4.9	5.5	6.2	7	7.8	8.6	20	22.1	24.4	26.9	30	33.1
200	4.9	5.5	6.1	6.8	7.7	8.6	9.6	22.3	24.6	27.1	29.9	33.4	36.8
225	5.5	6.2	6.9	7.7	8.7	9.7	10.8	25	27.6	30.5	33.7	37.5	41.4
250	6.1	6.8	7.6	8.5	9.7	10.8	12	27.8	30.7	33.8	37.3	41.7	46
280	6.9	7.7	8.5	9.5	10.8	12	13.4	31.2	34.4	37.9	41.8	46.7	51.5
315	7.7	8.6	9.6	10.7	12.2	13.5	15	35	38.6	42.6	47	52.5	57.9
355	8.7	9.7	10.8	12	13.7	15.2	16.9	39.5	43.6	48	52.9	59.2	65.2
400	9.8	10.9	12.2	13.5	15.4	17	19.1	44.5	49.1	54.1	59.6	66.7	73.5

# SUDARSHAN HDPE ELECTROFUSION FITTINGS

Sudarshan Pipes manufacture all type of HDPE Fittings in house as per National and International standards with SDR 11 and SDR 13.6. Electrofusion Fittings, Butt Fusion Fittings, Spigot Moulded Fittings and Compression Fittings for MDPE Pipes. All these Fittings are tested as per standard and most suitable for jointing of HDPE Pipes and MDPE Pipes for Drinking Water, Drainage and Gas Pipeline. Sudarshan Fittings are used in JJM Project, Multi Village Scheme, 24\*7 Drinking Water supply line, Amruth 1 and 2, Layouts, Complex, Factory, Chemical Plant, Mining, Water Transportation. These Fittings are easy to use and install, provides leakproof and long lasting usage.

We are 1st in South India who is having Manufacturing Facilities for Electrofusion Fittings.

## Electrofusion Coupler



**Material Grade: PE100  
SDR 11 PN16**

CODE	SIZE	CODE	SIZE
EFCO63	63MM	EFCO125	125MM
EFCO75	75MM	EFCO140	140MM
EFCO90	90MM	EFCO160	160MM
EFCO110	110MM	EFCO180	180MM
EFCO125	125MM	EFCO250	250MM
EFCO140	140MM		

## Electrofusion Elbow



**Material Grade: PE100  
SDR 11 PN16**

CODE	SIZE	CODE	SIZE
EFEL63	63MM	EFEL110	110MM
EFEL75	75MM	EFEL125	125MM
EFEL90	90MM	EFEL140	140MM
EFEL110	110MM	EFEL180	180MM

## Electrofusion Tee



**Material Grade: PE100  
SDR 11 PN16**

CODE	SIZE	CODE	SIZE
EFTE63	63MM	EFTE110	110MM
EFTE75	75MM	EFTE140	140MM
EFTE90	90MM	EFTE180	180MM

## Electrofusion Endcap



**Material Grade: PE100  
SDR 11 PN16**

CODE	SIZE	CODE	SIZE
EFEC63	63MM	EFEC140	140MM
EFEC75	75MM	EFEC160	160MM
EFEC90	90MM	EFEC180	180MM
EFEC110	110MM	EFEC200	200MM
EFEC125	125MM		

## Electrofusion Saddle with Bottom



**Material Grade: PE100  
SDR 11 PN16**

CODE	SIZE	CODE	SIZE
EFSA63	63MM	EFSA90	90MM
EFSA75	75MM	EFSA110	110MM

# SUDARSHAN HDPE ELECTROFUSION FITTINGS

## Electrofusion Reducer



**Material Grade: PE100  
SDR 11 PN16**

CODE	SIZE	CODE	SIZE
EFRE7563	75X63MM	EFRE9063	90X63MM
EFRE9075	90X75MM	EFRE11075	110X75MM
EFRE11090	110X90MM	EFRE11063	110X63MM
EFRE16090	160X90MM	EFRE160110	160X110MM

## Electrofusion Reducing Tee



**Material Grade: PE100  
SDR 11 PN16**

CODE	SIZE
EFRT909063	90X90X63MM
EFRT909075	90X90X75MM
EFRT11011090	110X110X90MM
EFRT11011075	110X110X75MM
EFRT160160110	160X160X110MM

## Jointing Technique of Electrofusion

- 1) Clean the jointing area
- 2) Remove the oxidation of pipes with scaber
- 3) Mark the jointing area with proper lining
- 4) Insert the fitting into pipe with proper clamping
- 5) Scan the QR code which is stuck on the fitting
- 6) Start the machine and wait for jointing process to complete
- 7) Leave the Jointing as it is for its mentioned cooling time.





## BUTT FUSION / SPIGOT FITTING



### Butt Fusion Tee

Material Grade: PE100  
SDR 13.6 PN 10

CODE	SIZE	CODE	SIZE
BFTE63	63MM	BFTE90	90MM
BFTE75	75MM	BFTE110	110MM



### Butt Fusion Elbow

Material Grade: PE100  
SDR 13.6 PN 10

CODE	SIZE	CODE	SIZE
BFEL63	63MM	BFEL90	90MM
BFEL75	75MM	BFEL110	110MM



### Butt Fusion Endcap

Material Grade: PE100  
SDR 13.6 PN 10

CODE	SIZE	CODE	SIZE
BFEC63	63MM	BFEC90	90MM
BFEC75	75MM	BFEC110	110MM



### Butt Fusion Reducer

Material Grade: PE100  
SDR 13.6 PN 10

CODE	SIZE
BFRE7563/7550	75X63MM / 75X50MM
BFRE9075/9063	90X75MM / 90X63MM
BFRE11090/11075/ 11063	110X90MM/110X75MM / 110X63MM



### Butt Fusion Saddle

Material Grade: PE100  
SDR 13.6 PN 10

CODE	SIZE
BFSA63	63MM – 20/25/32 MM
BFSA75	75MM – 20/25/32 MM
BFSA90	90MM – 20/25/32 MM
BFSA110	110MM – 20/25/32 MM



### Butt Fusion Flange

Material Grade: PE100  
SDR 13.6 PN 10

CODE	SIZE	CODE	SIZE
BFF63	63MM	BFF110	110MM
BFF75	75MM	BFF140	140MM
BFF90	90MM	BFF160	160MM





# SUDARSHAN MDPE PIPES & FITTINGS

For Water Line house hold connections

MDPE PIPE



20 MM MDPE COUPLER



20 MM MDPE FTA BRASS ELBOW



20 MM MDPE ELBOW 90°



20 MM MDPE MTA BRASS ELBOW



20 MM MDPE MTA BRASS



20 MM MDPE FTA BRASS



20 MM MDPE TEE



20 MM MDPE END CAP



## Technical specification

SUDARSHAN MDPE PIPES AS PER ISO : 4427 - 2 - 2007											
DIMENSIONAL CHART OF POLYETHYLENE PIPES AS PER ISO 4427 - 2 : 2007											
Pipe Series [S=(SDR-1)/2]	6.3	5	4	3.2	2.5						
Standrad Dimensional Ratio (SDR)	13.6	11	9	7.4	6						
PE 80	PN 10	PN 12.5	PN 16	PN 20	PN 25						
PE 100	PN 12.5	PN 16	PN 20	PN 25	-						
Min/Mix OD	MDPE Wall Thickness Chat										
OD-Min	OD-Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
16	16.3	0	0	0	0	2	2.3	2.3	2.7	3	3.4
20	20.3	0	0	2	2.3	2.3	2.7	3	3.4	3.4	3.9
25	25.3	2	2.3	2.3	2.7	3	3.4	3.5	4	4.2	4.8
32	32.3	2.4	2.8	3	3.4	3.6	4.1	4.4	5	5.4	6.1
40	40.4	3	3.5	3.7	4.2	4.5	5.1	5.5	6.2	6.7	7.5
50	50.4	3.7	4.2	4.6	5.2	5.6	6.3	6.9	7.7	8.3	9.3
63	63.4	4.7	5.3	5.8	6.5	7.1	8	8.6	9.6	10.5	11.7
75	75.5	5.6	6.3	6.8	7.6	8.4	9.4	10.3	11.5	12.5	13.9
90	90.6	6.7	7.5	8.2	9.2	10.1	11.3	12.3	13.7	15	16.7
110	110.7	8.1	9.1	10	11.1	12.3	13.7	15.1	16.8	18.3	20.3
125	125.8	9.2	10.3	11.4	12.7	14	15.6	17.1	19	20.8	23.3
140	140.9	10.3	11.5	12.7	14.1	15.7	17.4	19.2	21.3	23.3	25.8
160	161	11.8	13.1	14.6	16.2	17.9	19.8	21.9	24.2	26.6	29.4
180	181.1	13.8	14.8	16.4	18.2	20.1	22.3	24.9	27.2	29.9	33
200	201.2	14.7	16.3	18.2	20.2	22.4	24.8	27.4	30.3	33.2	36.7

## POWER DUCT FOR SMART CITY

- As per International standards - ASTM F 2160.
- Power Duct are used in smart cities for Ducting of Electrical Cable. Manufactured in three layers. Power Duct within silicon coating and Inner Ribbed from 1/2" to 12" as per International standard ASTM F-2160
- Sudarshan HDPE pipes with Cooper line used mainly for ducting of high voltage cable to trace the cable after long period



## SUDARSHAN PLB DUCT

- Manufactured as per Indian & International standard like TEC/RDSO/MECON & ASTM F2160-16
- For Ducting of optical Fiber Telecom, BESCO, Metro and Railway
- Sudarshan PLB Duct are supplied with Rights Inspection to Indian Railway for Signal Projects
- Manufactured with PE 100 Material.
- Duct sizes in mm: 32/26, 40/33, 50/42, 63/57, 75/65, 90/79, 100/96
- Available in 300 Mtr, 500 Mtr & 1000 Mtr roll in different colour.



SUDARSHAN PLB HDPE DUCT PIPE										
AS PER TEC-2019 (TEC/GR/FA/CDS-008-04/AUG-19)										
SL NO	Nominal Dia			WT MAX, MIN		INNER LAYER		WALL THICKNESS		WT/Mtr
	OD MIN	OD MAX	SIZE	WT	WT + -	WT-MIN	WT-MAX	WT-MIN	WT-MIX	
1	32 MM	32.3	32/26	3	0.2	0.24	0.36	2.8	3.2	0.262
2	40 MM	40.4	40/33	3.5	0.2	0.28	0.42	3.3	3.7	0.385
3	50 MM	50.5	50/42	4	0.3	0.32	0.48	3.7	4.3	0.555
4	63 MM	63.6	63/57	3	0.4	0.36	0.54	2.6	3.4	0.543
5	63 MM	63.6	63/50	6.5	0.4	0.36	0.54	6.1	6.9	1.108
6	75 MM	75.7	75/65	5	0.5	0.4	0.6	4.5	5.5	1.055
7	90 MM	90.9	90/79	5.5	0.5	0.44	0.66	5	6	1.402
8	110 MM	111	110/96	7	0.6	0.54	0.84	6.4	7.6	2.173
9	110 MM	111	110/80	15	0.6	0.54	0.84	14.4	15.6	4.298

## SINGLE WALL CORRUGATED PIPES



Single Wall Corrugated HDPE pipes for use in prestressed concrete structure and for underground services. Single Wall Corrugated pipes are widely used as sheathing duct for insulating, pre-stressing and strands / cable, in construction of highways, Railway Bridges, Flyovers, Offshore platforms, Viaducts, Metro, Buildings, Nuclear containment structure, Underpasses etc.

### Advantages of Single Wall Corrugated Pipes (SWC)

- ◆ Enhance fatigue life of tendons

- ◆ Speedy installation, water tightness
- ◆ Friction and wobble co-efficient being low, compared with metallic sheathing there is saving of pre-stressing wires
- ◆ Joining is easy and number of joints can be reduced, as it is available in continuous length coils
- ◆ Very good bond between concrete and sheath as well as between grout and sheath
- ◆ Good corrosion protection
- ◆ Good compression strength as well as impact resistance
- ◆ Single wall corrugated pipe size/ wall thickness (IS:14268)

### Single wall corrugated pipe size/ wall thickness

Size nominal ID (MM)	Size nominal OD (MM)	Wall thickness
75MM	90MM	2.30MM to 2.80MM
84MM	97MM	2.50MM to 3.50MM
107MM	125MM	2.5MM to 3.50MM
128MM	148MM	2.50MM to 3.50MM

ID – ID means ID from Inner ribbed to ribbed

OD – OD means, measurements of OD from Outside Ribbed to Ribbed

Thickness – Wall thickness of Inner Ribbed and Outer Ribbed



### Sudarshan DWC Ducting Pipe: IS 16205 Part 24

SPEPL manufactures Sudarshan DWC Ducting Pipes as per IS 16205 Part 24 old IS 14930 Part 1 for ducting of electrical, telecom, railway Cable. Its unique double-walled construction makes it light-weight, gives excellent mechanical properties like high ring stiffness and better impact strength. The smooth inner wall facilitates easy insertion of ducts and cables.

### Product Range:

- ◆ 50mm to 75mm in coil form.
- ◆ 90 mm to 160 mm in 6 mtr. / 9 mtr. length.





UNIT AT DABASPET, TUMKUR ROAD, BENGALURU



**JAL JEEVAN MISSION**

**MAJOR & MINOR IRRIGATION**

**METRO / RAILWAY / PORT**

**MULTI VILLAGE SCHEME**

**TELECOM / BRIDGES / CIVIL**

**DRINKING / DRAINAGE**

**PVC Division**

Mfg.: PVC / UGD /  
COLUMN /  
CASING PIPES &  
PVC FITTINGS

**HDPE Division**

Mfg.: Electro Fusion Fitting / Butt, Spigot  
Fittings / MDPE Compression Fittings / HDPE  
/ MDPE / GAS / PLB / Single / Double Wall  
Corrugated Pipes / DRIP / SPRINKLER PIPES

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