Parin®
Easy Plumbing

We set the standard for design and dependability.

uPVC, cPVC, SWR, Pipes & Fittings

RANGE: 1/2 to 4 inch

Company Profile

Commander Polyplast was established in the year 2012 with manufacturing of “PARIN” Brand uPVC Pipes and Fittings as one of the well known “COMMANDER” Diesel Engine Group of Companies. From 2015 we have started manufacturing cPVC Pipes and Fittings. And from 2017 we started Manufacturing SWR Pipes & Fittings. Commander Polyplast is certified with ISO 9001:2015 Certification and D&B.

Our plant is developed in a well located industrial zone. The infrastructure of our company is well planned with advanced technology. Here we have advanced technology machinery, well planned production line, technical manpower staff, and skilled labor with qualified engineers.

We here works on improving our product day by day so that we can serve our customers a good product and satisfy them. Here we believe in quality. Quality is our strength.

We have a R&D department and a quality control laboratory.

OUR VISION
To transform ourselves into a worldwide competitive in PVC Pipe & Fitting market to manufacture a world class products.

OUR MISSION
To ensure and enhance the quality of a PVC Pipes & Fittings product throughout the world by providing quality assured products. Making PVC Pipes & Fittings products from better to best is our motto.

QUALITY POLICY
We at Commander Polyplast are committed to consistently supply our Products which satisfy our customer’s requirement in respect of product quality and delivery by continuous improvement in Method, Resources, Employee Skill and Work Environment.

Infrastrucre

Over and above the Production and Quality Control related infrastructure of the company. The company has the following infrastructure.:

The company has a modern office setup with all the state of the facilities including the well equipped area for Directors and Staff and fully equipped Conference Room.

Our company maintains a rich library of books and is a subscriber to latest journals in hard copy and E-Mail based newsletter on Plastic Technology keeping the personnel in the company updated about the latest developments in the world of Plastic.

One of the most critical requirements of the business is the need for Dies and Tools, so for that our company have well equipped Tool Room.

Our company have fully equipped Laboratory and developed facilities.

Our company have latest Twin Screw Technology Machine for pipe manufacturing and Advance Injection Moulding Technique for Fittings.

ADVANTAGES :

- Lead Free
- Freedom from Toxicity
- Cost Effective
- Easy to Install
- Maintenance Free
- Strong & Durable
- UV Resistant
- Fire Resistant
- Good Chemical Resistance
- Solvent cement jointing
- Good Corrosion Resistance
- Low Thermal Conductivity

FIELD OF APPLICATION

Bathrooms

Washing Place

Kitchen

Hospitals, Laboratories

High Rise Buildings

Single Owned House

Hotels, Resorts

Industries etc.


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Good Insulator
Wide Range

uPVC PIPE

ELBOW

TEE

COUPLER

MTA

FTA

TANK NIPPLE

UNION

END CAP

BRASS ELBOW

BRASS TEE

BRASS MTA

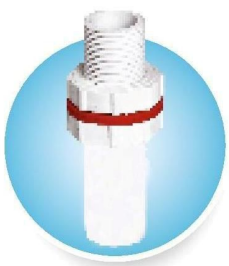
BRASS FTA

REDUCER TEE

REDUCER SLEEVE

REDUCER ELBOW

REDUCER BUSH



PIPE TANK NIPPLE

STEP OVER BAND

ELBOW 45°

CROSS TEE

OVER BAND

END PLUG

BALL VALVE LONG HANDLE

BALL VALVE

About uPVC

Unplasticized polyvinyl chloride (uPVC) pipes are made from a combination of plastic and vinyl. These pipes are durable, hard to damage and long lasting. They do not rust, rot, or wear over a long period of time. Therefore, uPVC pipes are most commonly used for cold water applications in plumbing, water supply, underground drainage and sewage lines.

Due to the ability of uPVC pipe to withstand extreme movement and bending, it is also increasingly used in earthquake prone areas. It can withstand rigorous Shaking of earth without experiencing any damage.

The smooth surface of the pipe is also resistant to bacterial contamination such as E. coli. therefore, many water companies rely on uPVC pipes in their systems in order to keep them free of contamination.

PRODUCT SPECIFICATION

- Pipe Standard : As per ASTM D 1785 (SCH- 40), ASTM D 2467 (SCH- 80).
- Fitting Standard : As per ASTM D 2467 (SCH- 80).
- Material : uPVC Compound.
- Solvent Cement : Heavy Duty.
- Color : White.
- Pressure Class : Pipe SCH-40 & Pipe SCH-80, Fitting SCH-80.
- Range : Pipe & Fitting from 1/2" to 3".

STANDARDS FOR PIPES AND FITTINGS

Class of Pipe	Standard	Size Available	Class of Fitting	Standard	Size Available
SCH 40 Pipe	ASTM D1785	½" to 3"	SCH 40 Fittings	ASTM D1785	½" to 3"
SCH 80 Pipe	ASTM D2467	½" to 3"	SCH 80 Fittings	ASTM D1785	½" to 3"

uPVC Fittings Range

Elbow, Tee, Coupler, MTA, FTA, End Cap, Union, Brass Tee, Brass Elbow, Brass MTA, Brass FTA, Re-ducer Sleeve, Reducer Bush, Reducer Tee, Reducer Elbow, Reducer Brass Elbow, Reducer Brass Tee, Tank Nipple, Pipe Tank Nipple, Step Over Band, Elbow - 45°, Cross Tee, Over Band, End Plug, Ball Valve etc.

Dimensional details and Pressure Ratings of ASTM D 1785 (SCH- 40) and (SCH- 80) uPVC Pipes.

Nominal Pipe Size (Inch)	Min Outside Diameter (mm)		SCHEDULE - 40				SCHEDULE - 80			
			Thickness (mm)		Max. Water Pressure at 23° C.		Thickness (mm)		Max. Water Pressure at 23° C.	
	Min.	Max.	Min.	Max.	Psi.	Kg/cm²	Min.	Max.	Psi.	Kg/cm²
½	21.24	21.35	2.77	2.87	600	41.40	3.73	3.83	850	58.60
¾	26.57	26.70	2.87	2.97	480	33.10	3.91	4.01	690	47.60
1"	33.27	33.40	3.38	3.50	450	31.10	4.55	4.67	630	43.40
1 ¼"	42.03	42.15	3.56	3.70	370	25.50	4.85	4.99	520	35.90
1 ½"	48.11	48.25	3.68	3.80	330	22.80	5.08	5.20	470	32.40
2"	60.17	60.30	3.91	4.05	280	19.30	5.54	5.68	400	27.60

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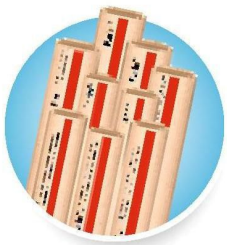


cPVC PIPE

ELBOW

TEE

COUPLER

MTA

FTA

TANK NIPPLE

UNION

END CAP

BRASS ELBOW

BRASS TEE

BRASS MTA

BRASS FTA

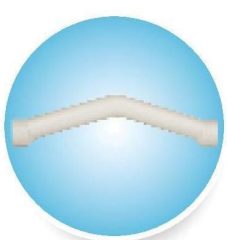
REDUCER TEE

REDCUER SLEEVE

BRASS MTA-HEXA

BRASS FTA-HEXA

REDUCER BUSH



STEP OVER BAND

REDUCER MTA

REDUCER FTA

ELBOW 45

CROSS TEE

REDUCER ELBOW

BALL VALVE

cPVC Plumbing System

About cPVC

Chlorinated polyvinyl chloride (CPVC) is a thermoplastic produced by chlorination of polyvinyl chlo-ride (PVC) resin which is significantly more flexible and can withstand higher temperatures than standard PVC. CPVC is the first choice of material for potable water supply across the world and is in use across the world for more than 50 years.

CPVC shares most of the features and properties of PVC. Because of its excellent corrosion resis-tance at elevated temperatures, CPVC is ideally suited for self-supporting constructions where tempera-tures up to 200 °F (90 °C) are present.CPVC can withstand corrosive water at temperatures greater than PVC. The principal mechanical difference between CPVC and PVC is that CPVC is significantly more ductile, allowing greater flexure and crush resistance.

Due to this property it is ideal for use in hot and cold water applications in villas and individual homes, residential apartments, office complexes, commercial buildings, hotels and hospitals.

PRODUCT SPECIFICATION

- Pipe Standard : As per ASTM D 2846 (SDR-11), ASTM D 2846 (SDR-13.5).
- Fitting Standard : As per ASTM D 2846 (SDR-11).
- Material : cPVC Compound.
- Solvent Cement : Heavy Duty.
- Color : Tan.
- Pressure Class : Pipe SDR-11 & Pipe SDR-13.5, Fitting SDR-11.
- Range : Pipe & Fitting from ½" to 2".

STANDARDS FOR PIPES AND FITTINGS

Class of Pipe	Standard	Size Available	Class of Fitting	Standard	Size Available
Class-1/ SDR-11 Pipe	IS 15778 ASTM D 2846	½" - 2"	SDR-11 Fitting	ASTM D 2846	½" - 2"
Class-2/SDR-13.5 Pipe	IS 15778 ASTM D 2846	½" - 2"	-		-

cPVC Fittings Range

Elbow, Tee, Coupler, MTA, FTA, End Cap, Union, Brass Tee, Brass Elbow, Brass MTA, Brass FTA, Re-ducer Sleeve, Reducer Bush, Reducer Tee, Reducer Elbow, Reducer Brass Elbow, Reducer Brass Tee, Tank Nipple, Pipe Tank Nipple, Step Over Band, Elbow - 45°, Cross Tee, Over Band, End Plug, Ball Valve etc.

Dimensional details and Pressure Ratings of SDR 11 (Class-1) cPVC Pipes and SDR 13.5 (Class 2) cPVC Pipes as per IS 15778

Nominal Pipe Size		Outside Diameter (mm)		SDR 11 (CLASS-1) cPVC PIPES				SDR 13.5 (CLASS 2) cPVC PIPES			
				Wall Thickness (mm)		Pressure Rating at 27° C.	Pressure Rating at 82° C.	Wall Thickness (mm)		Pressure Rating at 27° C.	Pressure Rating at 82° C.
inch	mm	Average	Tolerance	(mm)	Tolerance	(Kg./mm²)	(Kg./mm²)	(mm)	Tolerance	(Kg./mm²)	(Kg./mm²)
½	15	15.90	± 0.1	1.95	± 0.25	28.14	6.93	1.65	± 0.25	22.23	5.61
¾	20	22.20	± 0.1	2.25	± 0.25	28.14	6.93	1.95	± 0.25	22.23	5.61
1"	25	28.60	± 0.1	2.85	± 0.25	28.14	6.93	2.35	± 0.25	22.23	5.61
1 ¼"	32	34.90	± 0.1	3.45	± 0.25	28.14	6.93	2.85	± 0.25	22.23	5.61
1 ½"	40	41.30	± 0.1	4.05	± 0.25	28.14	6.93	3.35	± 0.25	22.23	5.61
2"	50	54.00	± 0.1	5.20	± 0.30	28.14	6.93	4.25	± 0.25	22.23	5.61

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SWR Pipe

Bend 87.5°

Bend 87.5° Door

Sheo Bend 87.5°

Coupler

Single Tee

Single Tee Door

Double Tee

Cleaning Pipe

Single Y

Single Y Door

Reducer

Vent Cowl

P Trap

Reduce Tee

Reduce Tee Door

Nahani Trap

SWR Plumbing System

About SWR

PVC SWR Piping System are required in any area to dispose off waste water from our homes and industrial areas. A pipe and their fittings that facilitates the transfer of water from one place to another is known as a drainage system. They are of utmost importance, as they accomplish the most important task of disposing waste water from our houses or an industry. They are also important for preventing flood that is caused because of swamp-like conditions and soil erosion. Now, there are different types of drain-age system used for different types of drainage problems. Today the most commonly used drainage sys-tem are PVC SWR Drainage system.

PVC SWR Piping System are widely used in drainage systems, as they are cheap, durable and easy to assemble. PVC pipes account for about 75%, in the waste water mains. These pipes are strong to tolerate any pressure and simply needs Push to join two parts together, which saves time on soldering or welding.

PVC SWR Piping System are Quick and Easy to Install, Leak Proof, Maintenance free, corrosion and rust proof,chemical resistance, No scaling or Deposition, Designed for long durability and service,etc.

PRODUCT SPECIFICATION

- Pipe Standard : As per ISI IS:13592
- Fitting Standard : As per ISI IS:14735.
- Material : uPVC Compound.
- Solvent Cement : Heavy Duty.
- Color : Light Grey.
- Range : Pipe & Fittings from 75mm to 160mm.

STANDARDS FOR PIPES AND FITTINGS

Class of Pipe	Standard	Size Available	Class of Pipe	Standard As Per ISI	Size Available
TYPE A- Ring Fitting	IS:13592	75,110 & 160	Ringfit	IS:14735	75,90, 110 & 160
TYPE B- Ring Fitting	IS:13592	75,110 & 160			

SWR Fittings Range

Bend 87.5°, Bend 87.5° Door, Shoe Bend 87.5°, Coupler, Single Tee, Single Tee Door, Double Door, Cleaning Pipe, Single Y, Single Y Door, Reducer, Vent Cowl, P-Trap, Nahani Trap, Reducer Tee, Reducer Tee Door, etc.

Dimensional details of pipes

Nominal Outside Diameter (mm)	Minimum Outside Diameter (mm)		Outside Diameter at any Point (mm)		Wall Thickness Type A (mm)		Wall Thickness Type B (mm)	
	Min	Max	Min	Max	Min	Max	Min	Max
75	75.00	75.30	74.10	75.90	1.80	2.20	3.20	3.80
90	90.00	90.30	88.90	88.90	1.90	2.30	3.20	3.80
110	110.00	110.40	108.60	108.60	2.20	2.70	3.20	3.80
160	160.00	160.50	158.00	158.00	2.30	2.80	4.00	4.60

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An ISO 9001:2015 Certified Company

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