



PRODUCT CATALOGUE





COMPANY PROFILE

DIPLAST has started manufacturing of uPvc Conduit Pipes in the year 1972 with registering continuous growth year by year, the company has since then grown large into manufacturing a wide range of uPvc Pressure Pipes & uPvc Fittings, Plumbing Pipes & Fittings, Column Pipes ,SWR Pipes & fittings, Conduit Pipes & Fittings, Water Tanks, Toilet ,Sitting Bench, Dustbin, Trolley Blow Moulded Tanks,Compost Bin, CPVC Pipes & Fittings, PP-R Pipes & Fittings etc. The basic objective of the company is to provide the service to our customer with better quality products and better commitments.

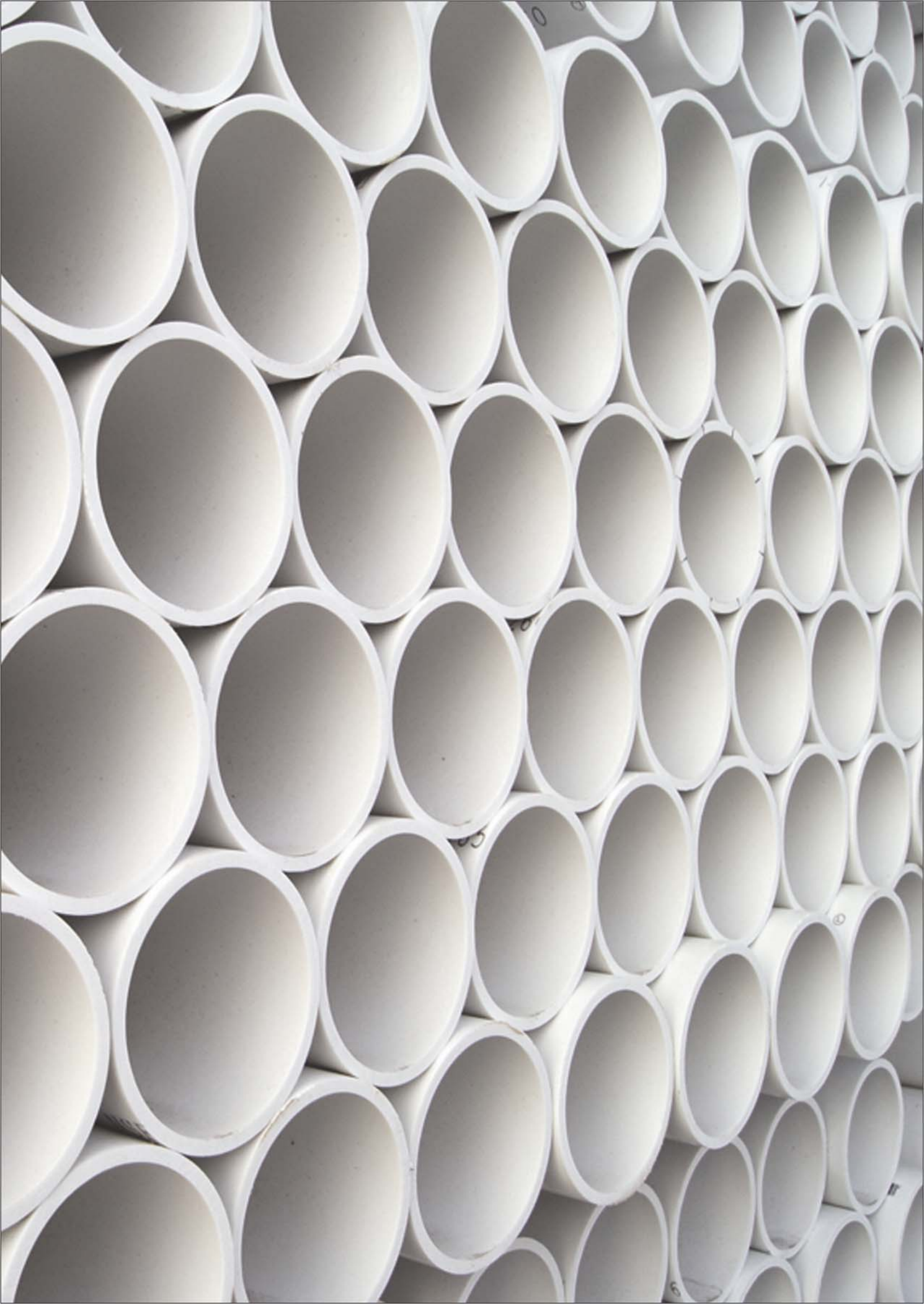
The company is well famous in the market for its commitments to customer and for best delivery of products to the customer. The company has plants located in Mohali (Punjab) & Kala Amb (Himachal Pradesh) with high technology and automatic machines, well qualified and skilled manpower, best policies and superior laboratory with the objective to minimize the product cost and provide competitive Price of products in the market. The strength of company is its committed management team, and supreme combination of experienced, technical and good decision makers.

OUR MISSION

The company has self-assurance to become the largest manufacturer and supplier of plastic industries on national and Global level. Target to achieve the total turnover of more than 100 crore.

OUR VISIONS

To serve the people, society and nation by providing world class quality products.



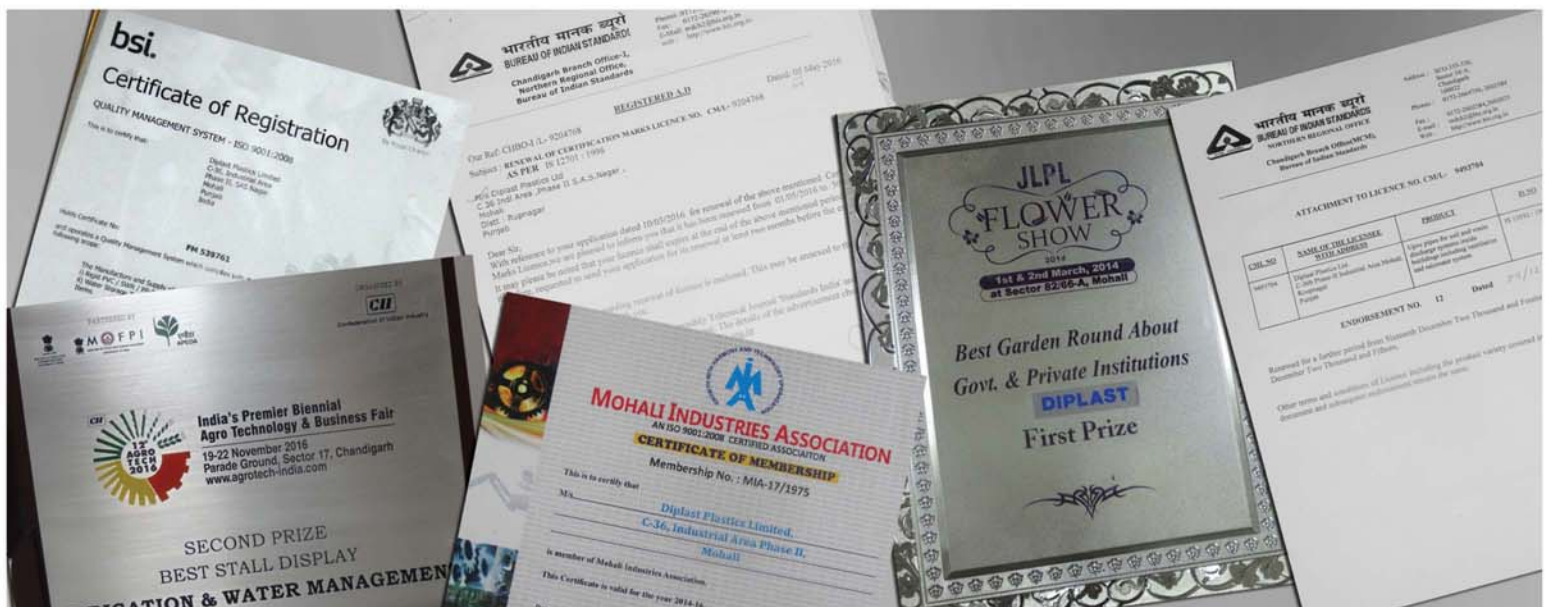


Our Assurance for Quality

Quality being the for most concern of our organisation, we lay stress on the production of only qualitative range of products.

Our team of quality experts ensures zero defects at customer end as they stringently check the entire lot before dispatch.

Certification & Accreditations



Research & Development



At DIPLAST learning is a continuous process. With this in mind, we set up our own ISO certified research and development unit, which integrates technology, understanding of the market and consumer needs and demands, to bring out excellent, effective & efficient designs. Our R & D department is equipped with latest technique. Our special testing laboratory develops & tests products for efficiency. A highly skilled team of mechanical & plastic engineers work round the clock to manufacture products of the highest quality.

Our Quality



Ensures long term prosperity. Delivering a long term prosperity and exponential growth, by delivering efficient solutions is a result of the supreme quality ingrained in the vision and in each process of the production.

We believe in quality.

The supreme quality ingrained in the vision as well as in each process of the production has helped us deliver long term prosperity and exponential growth.

At DIPLAST We believe in quality. We adhere to the most stringent quality check at every stage of our production process. Every product at DIPLAST undergoes an array of energy efficient test, before coming out of the plant. Quality Assurance at DIPLAST is backed by team of well qualified and well trained engineers.

Our fully automatic testing laboratory confirms the quality of the final product. We also conduct inspection from certified agency such as BIS to ensure the highest level of quality. We strictly adhere to the various national & international norms & standards like ISI, ASTM and ISO.

Our Services



Answer to your needs for efficient growth

DIPLAST, we believe that our valuable relation with our patrons begin once we deliver our products, because we value our customer's needs in understanding, and also in maintaining our products. We have a specialized team of customer service provider which comprise of the most qualified and experienced technocrats; they cater to every technical as well as non- technical assistance for our customer's delight.

Un-Plasticized Polyvinyl chloride Pipe for Portable water supplies (UPvc Pipes)

Range: 20mm to 315 mm Outer Diameter

Pressure Rating: 2.5 Kg/cm² to 12.0 Kg/cm²

Standard: IS 4985:2000

Colour: Light Grey, Off White

Length: available in 10', 12' and 20'

Types: Plain ended



Socketed pipe for solvent cement jointing

Features

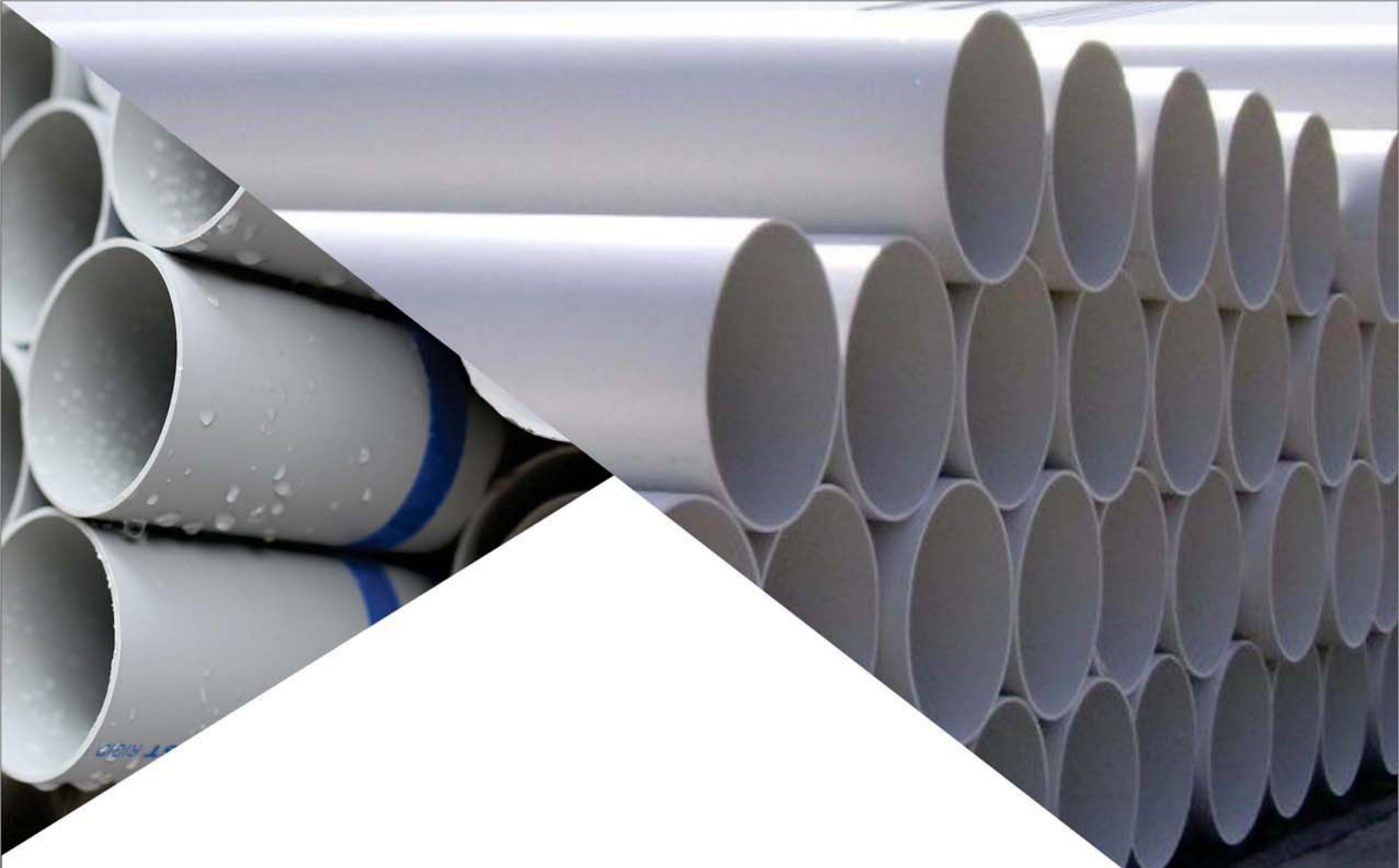
- Suitable for portable water supplies
- Light weight and fittings greatly reduce handling, transportation and installation costs.
- DIPLAST uPVC Pressure pipes system offers a reliable piping system, which is highly resilient tough & durable and long lasting
- Smooth inside surface provide high flow characteristics than GI, CI and AC Pipes
- Hygienic & odourless for portable water
- Termite Proof
- Very Low Friction Losses
- Easy installation & handling
- Corrosion free
- Inert to chemical

Application

- Water supply for agriculture and irrigation systems.
- Power & telecommunication cable ducting.
- Rural & urban water supplies, gas and oil supplies.
- Building water supply application.

Special Features & Identity

- Internal surfaces are very smooth which reduces friction loss.
- Specification followed : IS 4985:2000
- UV stabilized for use in sunlight
- Elastomeric sealing ring pipes to prevent leakage.
- Very high pressure resistant capacity.



Technical parameters IS 4985:2000

(All Dimension in mm)

Pipe Size	Nominal Size (OD)	Mean outside diameter Min/Max	OD at any point Min/Max	Class-1 0.25 Mpa (2.5 Kg/cm ²) Min/Max	Class-1 0.40 Mpa (6 kgf/cm ²) Min/Max	Class-1 0.6 Mpa (8 Kgf/cm ²) Min/Max	Class-1 0.8 Mpa (8 Kgf/cm ²) Min/Max	Class-1 1.00 Mpa (10 Kgf/cm ²) Min/Max	Class-1 1.25 Mpa (12.5 Kgf/cm ²) Min/Max
0.5"	20	20.0 - 20.3	19.5 - 20.5					1.1 - 1.5	1.4 - 1.8
0.75"	25	25.0 - 25.3	24.5 - 25.5				1.2 - 1.6	1.4 - 1.8	1.7 - 2.1
1.0"	32	32.0 - 32.3	31.5 - 32.5				1.5 - 1.9	1.8 - 2.2	2.2 - 2.7
1.25"	40	40.0 - 40.3	39.5 - 40.5			1.4 - 1.8	1.8 - 2.2	2.2 - 2.7	2.8 - 3.3
1.5"	50	50.0 - 50.3	49.5 - 50.5			1.7 - 2.1	2.3 - 2.8	2.8 - 3.3	3.4 - 4.0
2.0"	63	63.0 - 63.3	62.2 - 63.8		1.5 - 1.9	2.2 - 2.7	2.8 - 3.3	3.5 - 4.1	4.3 - 5.0
2.5"	75	75.0 - 75.3	74.1 - 75.9		1.8 - 2.2	2.6 - 2.7	3.4 - 4.0	4.2 - 4.9	5.1 - 5.9
3.0"	90	90.0 - 90.3	88.9 - 91.1	1.3 - 1.7	2.1 - 2.6	3.1 - 3.7	4.0 - 4.6	5.0 - 5.7	6.1 - 7.1
4.0"	110	110.0 - 110.4	108.6 - 111.4	1.6 - 2.0	2.5 - 3.0	3.7 - 4.3	4.9 - 5.6	6.1 - 7.1	7.5 - 8.7
4.5"	125	125.0 - 125.4	123.5 - 126.5	1.8 - 2.2	2.9 - 3.4	4.3 - 5.0	5.6 - 6.4	6.9 - 8.0	8.5 - 9.8
5.0"	140	140.0 - 140.5	138.3 - 141.7	2.0 - 2.4	3.2 - 3.8	4.8 - 5.5	6.3 - 7.3	7.7 - 8.9	9.5 - 11.0
6.0"	160	160.0 - 160.5	158.0 - 162.0	2.3 - 2.8	3.7 - 4.3	5.4 - 6.2	7.2 - 8.3	8.8 - 10.2	10.9 - 12.6
7.0"	180	180.0 - 180.6	177.8 - 182.2	3.6 - 3.1	4.2 - 4.9	6.1 - 7.1	8.0 - 9.2	9.9 - 11.4	12.2 - 14.1
8.0"	200	200.0 - 200.6	197.6 - 202.4	2.9 - 3.4	4.6 - 5.3	6.8 - 7.9	8.9 - 10.3	11.0 - 12.7	13.6 - 15.7
9.0"	225	225.0 - 225.7	222.3 - 202.4	3.3 - 3.9	5.2 - 6.0	7.6 - 8.8	10.0 - 11.5	12.4 - 14.3	15.3 - 17.6
10.0"	250	250.0 - 250.8	247.0 - 253.0	3.6 - 4.2	5.7 - 6.5	8.5 - 9.8	11.2 - 12.9	13.8 - 15.9	17.0 - 19.6
11.0"	280	280.0 - 280.9	276.6 - 283.4	4.1 - 4.8	6.4 - 7.4	9.5 - 11.0	12.5 - 14.4	15.4 - 17.8	19.0 - 21.9
12.0"	315	315.0 - 316.0	311.2 - 318.8	4.6 - 5.3	7.2 - 8.3	10.7 - 12.4	10.7 - 12.4	17.3 - 19.9	21.4 - 24.7

PVC Pipe Fitting

Salient Features:

General Dimension are conforming to IS 7834-87

Wall thickness is designed to meet required working Pressure

Made to close dimensional tolerance

Different working Pressure rating up to 10Kg/cm² for different sizes.

Socket

Size in mm	Available Pressure Rating in Kg/cm ²
20-315mm	4,6

Application: These are used for joining of two uPvc Pipes.



Plain Elbow 90°

Size in mm	Available Pressure Rating in Kg/cm ²
40-160mm	4,6

Application: These are used for short turns of 90°. These are not advisable on large pipeline involving high Pressure



Equal Tee

Size in mm	Available Pressure Rating in Kg/cm ²
40-160mm	4,6

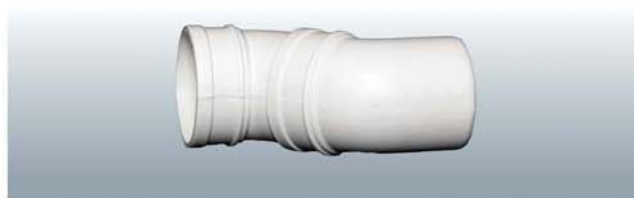
Application: These are used for bypass and taking equal size service line out of main line at 90°.



Elbow 45°

Size in mm	Available Pressure Rating in Kg/cm ²
90-110mm	4,6

Application: These are used for short turns of 45°.



Off Set Bend

Size in mm	Available Pressure Rating in Kg/cm ²
90-110mm	4,6

Application: These are used for short turns of 45°.



Reducing Elbow

Size in mm	Available Pressure Rating in Kg/cm ²
110x90mm	4,6

Application: These are used for bypass and taking lower diameter service line out of main line.



Reducing Tee

Size in mm	Available Pressure Rating in Kg/cm ²
110x90mm	4,6

Application: These are used for bypass and taking lower diameter service line out of main line.



Door Elbow

Size in mm	Available Pressure Rating in Kg/cm ²
75-110mm	4,6

Application: Function is same as a plain elbow with a threaded door for cleaning.



Door Tee

Size in mm	Available Pressure Rating in Kg/cm ²
75-110mm	4,6

Application: Function is same as a plain tee with a threaded door for cleaning purpose.



Reducer Socket

Size in mm	Available Pressure Rating in Kg/cm ²
40x25	10,12
50x40	6,10
75x63	4,6,10
90x75	4,6,10

Application: These are used to convert the service line into small extra small line.



End Cap

Size in mm	Available Pressure Rating in Kg/cm ²
20-250mm	4,6

Application: These are used to close the end of pipe line.



Vent Cowel

Size in mm	Available Pressure Rating in Kg/cm ²
63-110mm	4,6

Application: Use as a cap on the top of the Vertical line. Also help in release of foul gases.



P. Trap

Size in mm	Available Pressure Rating in Kg/cm ²
125x110mm	4,6
110x110mm	4,6

Application: To provide water seal & efficient functioning of the drainage system.



Nahni Trap

Size in mm	Available Pressure Rating in Kg/cm ²
110x110mm	4,6
110x90mm	4,6
110x75mm	4,6
110x63mm	4,6

Application: For draining waste from Bathroom / Wash basin out of the main line.



Diplast Solvent Cement

DIPLAST is leading manufacturer to produce reliable solvent cements for use with PVC & CPVC Pipe & fittings. Each formulation has been developed for a specific application and is subject to the strictest quality control program in the industry. This program guarantees the most consistent and highest quality solvent cements commercially available.

To make consistently good joints, the following points should be clearly understood:-

1. Check the pipe & fitting for dry fit before cementing. For proper interference fit, fitting should go over end of pipe easily but become tight about 1/3 to 2/3 of the way on. Too tight a fit is not desirable; you must be able to fully bottom the pipe in the socket during assembly. If the pipe and fitting are not out of round, a satisfactory joint can be made.
2. The joining surfaces must be softened and made semifluid.
3. Sufficient cement must be applied to fill gap between the pipe & fitting.
4. Assembly of pipe and fittings must be made while the surfaces are still wet and cement is still fluid.
5. Joint strength develops as the cement dries. In the tight part of the joint the surfaces will tend to fuse together in the loose part, the cement will bond to both surfaces.



Jointing Procedure for DIPLAST PVC PRESSURE PIPES

Procedure for cutting of pipe and application of solvent cement

The professional installer should be able to successfully assemble Rigid PVC Pipe and fittings by following The Diplast solvent cementing with primer instructions listed below:

1. As pipe diameter increases, so does the difficulty in installing it
2. Use of proper size applicator Brush is even more necessary to ensure enough cement is applied to fill the larger gap that exists between the pipe and fittings.
3. End of pipe must be cut square and chamfered.
4. Clean the pipe properly before applying solvent cement.
5. Increase size of joining crew:-

4"-6" : 1-2 Persons

6"-8" : 2-3 Persons

10"-12" : 3-4 Persons

6. It is important in large diameter jointing that the primer and cement be applied simultaneously to the pipe and fittings. Make sure to apply a second, full layer of cement to the pipe.
7. Large diameter pipe and fittings require longer set and cure times. *(in cold weather, a heat blanket may be used to speed up the set and cure times).
8. If pipe is to be buried, make as many joints as possible above ground, then after joints have cured, carefully lower into trench. Never bury empty cans, brushes cans or anything else containing wet cement, primer or cleaner next to the pipe.

Depending upon temperature , different sizes requires different timings as shown in the table:-

Average Initial Set Schedule

Temperature Range	Pipe sizes ½" to 1¼"	Pipe sizes ½" to 2"	Pipe sizes 2½" to 8"	Pipe sizes 10" to 15"
60°-100° F	2 Minutes	5 Minutes	30 Minutes	2 Hours
40°-60° F	5 Minutes	10 Minutes	2 Hours	8 Hours
0°-40° F	10 Minutes	15 Minutes	12 Hours	24 Hours

Note: Initial set schedule is the necessary time to allow before the joint can be carefully handled. In damp or humid allow 50% more set time.

Storage & Handling

Store in the shade between 40° F and 110°F (5°C and 44°C)or as specified on label. Keep away from heat, dark , open flame and other source of ignition. Keep container closed when not in use. If the unopened container is subjected to freezing, it may become extremely thick or jelled. This cement can be placed in a warm area, where after a period of time, it will return to its original usable condition. But such is not the case when jelling has taken place because of actual solvent loss- for example, when the container was left open too long during use or not properly sealed after use. Cement in this condition should not be used and should be properly discard.

DIPLAST solvent cement are formulated to be "used as received" in original containers. Adding thinners or primers to change viscosity is not recommended. If the cement is found to be jelly like and not free flowing, it should not be used. Containers of cement should be shaken or stirred before using.

Use only DIPLAST Solvent cement with DIPLAST PVC & CPVC Pipes for long life & durable Joints.

Packing Available in Solvent cement is 100ml, 250 ml, 500ml & 1000ml

Consumption of solvent cement

(All Dimension in mm)

Diameter of Pipe (mm)	20	25	32	40	50	63	75	90	110	140	160	180	200	225	250	280	315
Appx No.of Joints which can be made per litter of solvent cement	354	270	225	180	130	125	103	79	54	36	27	25	15	12	9	7	5

DIPLAST uPVC Plumbing Pipes & Fittings

Product Name: ASTM (Plumbing) Pipes & Fittings

Pipe : As Per ASTM –D 1785 Schedule 40 & 80

Fitting : As Per ASTM –D 2467 Schedule 80

Range : 0.5" to 2"

Colour : White

Length : Available in 3Meter & 6 Meter

Types : Plain & Thread ended

Standard working Temperature: up to 60° C continuously and upto 90° C for short time.



DIPLAST uPVC Plumbing Pipes & Fittings

Features

- The pipes are odourless and hygienic thus extremely suitable for portable supplies .
- Allows seamless operation up-to 60° C continuously and upto 90° C for short time
- Light weight
- Resistant to corrosion
- Non toxic
- Weather resistance
- Easy to installation
- Fire proof and termite proof
- Good thermal and electrical Insulation
- Inert to chemical

Application

- Cold water supply in buildings
- Industrial processing lines
- Swimming pools
- Salt water lines
- Aggressive /corrosive fluid transportation.
- Dye ,chrome, zinc plating and tanning plants
- Sugar, paper and distillery industries
- Coal washing and ash handling

Technical parameters

Nominal Diameter		Outside Diameter (mm)		Schedule 40				Schedule 80			
				Wall Thickness (mm)		Working Pressure		Wall Thickness (mm)		Working Pressure	
inch	mm					Mpa	Psi			Mpa	Psi
0.50"	15	21.3	+/- 0.10	2.77		2.07	300	3.73	+/- 0.51	2.90	420
0.75"	20	26.7	+/- 0.10	2.87	+/- 0.51	1.65	240	3.91	+/- 0.51	2.34	340
1.00"	25	33.4	+/- 0.13	3.38	+/- 0.51	1.55	225	4.55	+/- 0.53	2.21	320
1.25"	32	42.2	+/- 0.13	3.56	+/- 0.51	1.27	185	4.85	+/- 0.58	1.79	260
1.50"	40	48.3	+/- 0.15	3.68	+/- 0.51	1.14	165	5.08	+/- 0.61	1.65	240
2.00"	50	60.3	+/- 0.15	3.91	+/- 0.51	0.96	140	5.54	+/- 0.66	1.38	200

PVC Plumbing Fitting

DIPLAST uPVC Pipe Fittings in SCH 80 AS per ASTM D 2467

Elbow 90°

Size(inch)	I.D.(mm)	Std.Packing
1/2"	21.34	100
3/4"	26.67	60
1"	33.40	30
1 1/4"	42.16	18



Tee

Size(inch)	I.D.(mm)	Std.Packing
1/2"	21.34	100
3/4"	26.67	60
1"	33.40	30
1 1/4"	42.16	18



Socket

Size(inch)	I.D.(mm)	Std.Packing
1/2"	21.34	100
3/4"	26.67	60
1"	33.40	30
1 1/4"	42.16	18



Diplast uPVC Electrical Pipes & Fittings

We are one of the leading and biggest uPVC Electrical Conduits & accessories manufactures of North India.



Rigid PVC Conduits Confirming To Indian Standards:

DIPLAST Rigid PVC Conduits are manufactured in accordance with Bureau of indian standard specification IS: 9537(Part 3) in the range of 20mm to 50mm with light, medium and heavy ranges

Dimensional Details of uPVC Conduits as per IS 9537(part 3)

O. Din mm	Tolerance in mm	Light			Medium			Heavy		
		Min I.D	Min Wall Thickness	Max Wall Thickness	Min I.D	Min Wall Thickness	Max Wall Thickness	Min I.D	Min Wall Thickness	Max Wall Thickness
20	-0.3	17.4	1.15	1.30	16.9	1.40	1.55	15.80	1.95	2.10
25	-0.3	22.3	1.25	1.45	21.40	1.60	1.80	20.60	2.00	2.20
32	-0.4	28.6	1.50	1.70	27.80	1.90	2.40	26.60	2.50	2.70
40	-0.4	35.8	1.90	2.10	35.40	2.10	2.30	34.40	2.60	2.80
50	-0.5	45.1	2.2	2.45	44.80	2.60	2.85	43.20	3.15	3.40

Dimensional details of Rigid uPVC Non ISI Conduit pipes:

Size	Wall Thickness	Wall Thickness	Wall Thickness	Wall Thickness	Wall Thickness	Wall Thickness
19mm	1.0	1.2	1.4	1.6	2.0	
25mm	1.0	1.2	1.4	1.6	2.0	
32mm				1.9	2.2	
40mm				2.0	2.1	2.5
50mm					2.0	
63mm						3.0

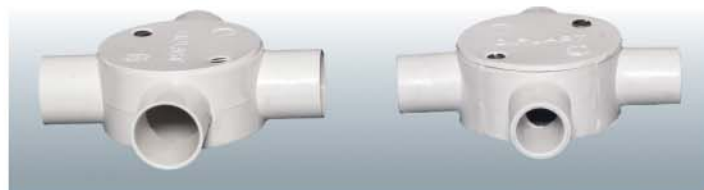


All the above Pipes are available in the standard length of 3 mtrs only.

DIPLAST uPVC Conduit Pipe Fittings

1) Junction Boxes

- 1 Way Terminal
- 2 Way Through
- 3 Way Tee
- 4 Way Intersection



2) Deep Junction Boxes From 20mm to 25mm

- 1 Way Terminal
- 2 Way Through
- 3 Way Tee
- 4 Way Intersection



2) Bends Availability

20mm to 63mm



Advantages:

High corrosion Resistance: DIPLAST Rigid PVC Conduits are non-corrosive by nature and are not attacked by corrosive , salty atmosphere & excessive humidity. They are immune to chemical and galvanic corrosion .hence they are ideal electrical Conduits.

Fire Retardant

DIPLAST Rigid PVC Conduits do not support combustion and when the source of ignition is removed they are self-extinguishing hence they are safer than other pipes.

Conductivity

DIPLAST Rigid PVC Conduits do not support combustion and when the source of ignition is removed they are self-extinguishing hence they are safer than other pipes.

Lightweight

DIPLAST Rigid uPVC Conduits have low specific gravity which implies that it is much lighter than the the pipes made from more tradional materials, DIPLAST pipes are therefore easier to handle and longer or larger sections can be installed easily. This results in reduced transportation & installation costs.

Easy Wiring

Diplast conduits have smooth interior walls which help in reduced friction thus helping in easy wiring.

Easy installation

Diplast rigid uPVC conduits can be shaped & joined without difficulty. DIPLAST pipes are joined by solvent cement which is simpler, cheaper & easier.

Strength

Diplast rigid uPVC electrical conduit have high mechanical strength that is attested by tests conducted as specified IS 9537(part 3) of 1983. Hence they can be used both in open /surface and concealed installation

No Maintenance

DIPLAST Conduits need no maintenance due to their excellent weathering properties.

Durability

Diplast Rigid electrical conduit last for a year.

High Corrosion Resistance

DIPLAST Rigid uPVC Conduits are non-corrosive by nature and are not attacked by corrosive, salty atmosphere & excessive humidity. They are immune to chemical and galvanic corrosion .hence they are ideal electrical Conduits.



DIPLAST PP-R Pipes & Fittings

The raw material of DIPLAST Pipes and fittings is polypropylene random co-polymer(PP-R). This material due to high quality, is the most reliable system to be employed in plumbing and water supply systems. DIPLAST PP-R Products are physically superior, hygienically safe and non –carcinogenic. Polypropylene (PP) is general polyolefin plastic. It has excellent heat resistant and has higher pressure resistance. PPR – Pipes & fittings are growing fast in China and Turkey, due to this system approach. PP-R has more impact strength than other materials. PP-R also has more long term heat resistance and creep performance. At the same temperature and internal pressure PP-R have longer useful life. PP-R pipes & fittings is the best water supply material because it can operate 50 years at 70% and long term internal pressure.

Application

- DIPLAST PP-R pipes & fittings network for cold and hot installation, i.e.; in Residential Buildings, Hospitals,
- Hotels, Office & School buildings, Solar Plants floor heating etc.
- DIPLAST Pipe networks for compressed Air Plants
- DIPLAST Pipe network for swimming pool Facilities..
- DIPLAST Pipe networks for industry i.e.; Transportation of Aggressive Fluids(Acids etc.)
- Transport of Liquid Foods as DIPLAST PP-R pipes and fittings are food grade

Properties

- Non corrosive.
- Leak proof and frost proof.
- Non decaying non-deforming.
- Non contracting diameter.
- More than 50 years service life.
- Wide variety ranging form 16mm to 110mm to suit your diverse needs
- Smooth inner surface thus reducing the operational pressure required by the motor/pump.
- High chemical resistance.
- No bacterial and moss reproduction within the pipes.
- Resistance to high temperature (95°C).
- Heat preservative and energy saving(no need for installation)
- Taste odour neutral.
- No reaction with salts and acids.
- UV stabilizer
- Recyclable- for the benefit of environment
- The pipe is used for conveying Hot & Cold Water /fluids/chemical/compressed air in various plumbing installation.
- Double layer PP-R pipes for indoor/outdoor installations.
- Outer layer (Green color) PP-R is UV resistant, which makes pipe suitable for use under direct sunlight inner layer(white color) PP-R is antimicrobial which provides hygiene and protection from internal bacterial growth



Comparison between PP-R Pipes & Galvanized Pipe

S. No.	Property/Parameter	PP-R Pipes	Galvanized iron
1	Service Life(Years)	>50	5-15
2	Standard length(meter)	3-6	6
3	Joining method	Simple Thermal Fusion	Threaded joint
4	Skill	Do it Yourself	Requires expert Plumber
5	Joining Time	Few second	Few hours
6	Strength of joints	Fusion of Material- Perfect Homogeneity	Surface Homogeneity
7	Line Commissioning Time	More than 4 hrs/ Half day	Takes longer
8	Minimum Labor	One person required	2 person required
9	Brittleness Characteristics	Highly resistant	Resistant
10	Corrosion resistance	Non corrosive	Very weak
11	Chemical resistant	Excellent	Poor
12	Installation convenience	Simple & convenient	Difficult
13	Joining Reliability	Excellent	Good
14	Hygienic Factor	Food grade- No Leeching- Bacteriology Neutral	Unhygienic due to Zinc oxide Formation
15	Inner surface smoothness	Excellent	Semi smooth
16	Easiness in repair & Maintenance	Very easy	Troublesome
17	Wall thickness OD 20mm	3.4mm	2.6mm
18	Water Freezing Inside Pipeline	Does not burst	Burst
19	Joint Leak Proffness	100% Leak Proof Entire Service Life	Average- Leaks With Time
20	Eco-Friendliness	Eco Friendly, No Harmful Substances Produced During Processing	No

DIPLAST PP-R Pipes Specification as per IS

S.NO	Product	Dimension		Thickness SDR11/PN10	Thickness SDR7.4/PN16	Thickness SDR6/PN20
		mm	inch			
1	Pipe 20mm	20	½"	1.9	2.8	3.4
2	Pipe 25mm	25	¾"	2.3	3.5	4.2
3	Pipe 32mm	32	1"	2.9	4.4	5.4
4	Pipe 40mm	40	1-1/4"	3.7	5.5	6.7
5	Pipe 50mm	50	1-1/2"	4.6	6.9	8.3
6	Pipe 63mm	63	2"	5.8	8.6	10.5
7	Pipe 75mm	75	2-1/2"	6.8	10.3	12.5
8	Pipe 90mm	90	3"	8.2	12.3	15.0
9	Pipe 110mm	110	4"	10.0	15.1	18.3

DIPLAST PP-R Pipes & Fittings

S.NO	Product		Application
1	Coupler	20mm-110mm	The coupler is used to join two pipes to each other by means of fusion welding. its advantage allows for the joining of short length pipes or replacing faulty pieces of pipes



S.NO	Product		Application
2	Elbow	20mm-110mm	The elbow is used at where pipelines makes a turn of 90°



S.NO	Product		Application
3	Tee	20mm-110mm	Tee is used to take an outlet/ branch at 90° from main line.



S.NO	Product		Application
4	Cross	20mm-110mm	Cross is used to take branches outlets at 90° from pipelines at the same junction but in the opposite directions.



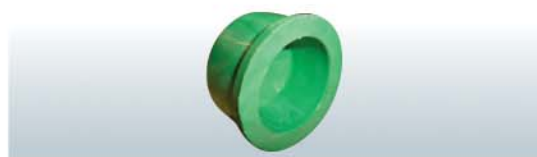
S.NO	Product		Application
5	Tank Nipple	20mm-110mm	This is used to take outlet from a tank



S.NO	Product		Application
6	Wall Clamp	20mm-110mm	This is used to secure the pipe line at its installed position on the wall.



S.NO	Product		Application
7	End Cap	20mm-110mm	End Cap is used as a stopper at the end of pipeline..it also seals the top end of pipeline for pressure leakage test after completion of piping work



S.NO	Product		Application
8	Union	20mm-110mm	Plain union is used to join two pipes co-axially. It Provides facility of repairing the joint, basically for maintenance.



S.NO	Product		Application
9	Gate Valve	20mm-110mm	Gate valve is used to start , regulate and stop the water flow in pipeline



S.NO	Product		Application
10	Ball Valve	20mm-110mm	Ball Valve is used to start regulate and stop the water flow in pipeline.



S.NO	Product		Application
11	Reducing Tee	20mmx16mm -90x50mm	This is used to take a smaller size branch pipe at 90°.



S.NO	Product		Application
12	Reducing Elbow	20mmx16mm -90x50mm	This is used to join two different sizes of pipes at a 90° corner/ turn.



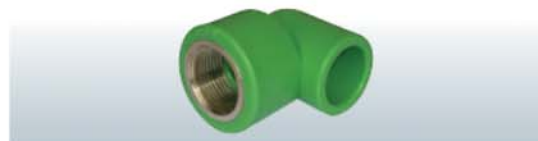
S.NO	Product		Application
13	Female Threaded Coupler	16x1/2"-63x2"	This is used to join male threaded metallic fittings with a PP-R C Pipe line.



S.NO	Product		Application
14	Male Threaded Coupler	16x1/2"-63x2"	This is used to join female threaded metallic fittings with a PP-R C Pipe line.



S.NO	Product		Application
15	Female Threaded Elbow	16mmx½"-63mmx2"	This is used to join male threaded metallic fitting with PP-R line at 90° corner/turn



S.NO	Product		Application
16	Male Threaded Elbow	16mmx½"-63mmx2"	This is used to join female threaded metallic fitting with PP-R line at 90° corner/turn



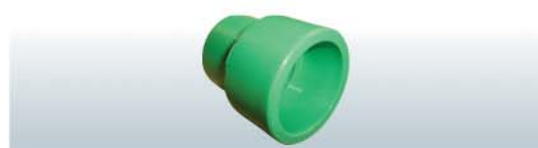
S.NO	Product		Application
17	Female Threaded Tee	16mmx½"-63mmx2"	This is used to take out an outlet from a PP-R line ,using a male threaded metallic fitting at 90° .



S.NO	Product		Application
18	Male Threaded Tee	16mmx½"-63mmx2"	This is used to take out an outlet from a PP-R line ,using a female threaded metallic fitting at 90° .



S.NO	Product		Application
19	Reducer	20x16mm-90x50mm	This is used to co -axially join a bigger diameter pipe to a small diameter pipe



S.NO	Product		Application
20	Long Plug	½"-1"	This is used to seal pipe ends having a female threaded fitting .it is also used for testing the pipeline



S.NO	Product		Application
21	Short Plug	½"-¾"	This is used to seal pipe ends having a female threaded fitting .it is also used for testing the pipeline



S.NO	Product		Application
22	Pipe Cutter	20mm-32mm	This is used for cutting pp-R pipes very smoothly.



S.NO	Product		Application
23	Jointing Machine	20mm-32mm	This is used for jointing of PP-R pipes & Fittings.



Jointing Procedure

The joining between PP-R Pipes & Fittings is made by welding them together using a fusion welder. These ends come into contact, usually the external surface of pipe and the internal one of fittings.

Special equipment is necessary: a fusion welder and some heating tools. Please refer to the manufacturer's instruction. Here we shall limit our suggestions to setting the thermostat to the right temperature for PP-R 260° C and checking its functioning frequently.

Operating Sequence

CUTTING:

Cut the Pipe Perpendicular and free it from any residual burrs.

CONDUCTIVITY :

DIPLAST Rigid PVC Conduits do not support combustion and when the source of ignition is removed they are self-extinguishing hence they are safer than other pipes.

CLEANING:

Prior to welding, the Pipe and fitting should be dried and properly cleaned.

MARKING:

Draw a line on the pipe in order to limit the welding depth.

HEATING:

When the Fusion Welder is ready (Warning Light of Heating Off), Insert Pipe and fitting into the corresponding heating tools at the same axis , without twisting them

WELDING:

Once the heating time shown in the table has passed, quickly removed the Pipe and fitting from the template and press them together up to the limit marked on the pipe.

COOLING:

Wait for the amount of time shown in the table before welding, holding the Pieces in place firmly. Check that is no residues of molten material on the templates after each welding operations.



CPVC Pipes & Fittings

DIPLAST is a potable water distribution system made of chlorinated Polyvinyl Chloride (CPVC) for use single & Multi Family Homes, apartments, high-rises, Hotel /motels and commercial installation. It has a history of superior performance and competitive prices compared to metal and other alternative piping systems.

In a sentence DIPLAST CPVC pipe is the highest Quality and best- valued hot and cold potable water piping system available. DIPLAST has a design registered for alignment on the plastic fittings.

Ideal for use in Hot & Cold water applications in:

- Villas and Individual Homes
- Residential Apartments
- Office complexes
- Commercial buildings
- Hotels Hospitals

Features & Benefits of DIPLAST CPVC Piping System

- Quick ,easy & aesthetic installation
- No corrosion ,leakage ,scaling, pitting
- Tough & reliable
- Freedom from toxicity ,odours and tastes
- Cost effective
- Low thermal expansion
- Fire retardant
- Low thermal conductivity
- Proven operational life of minimum 50 years
- Suitable for use up to 93* C
- Being used & trusted across the world for over 5 decades
- Energy saver
- Quick easy & aesthetic installation



CPVC System is light in weight, which reduces the transportation, handling and installation costs. Diplast CPVC Pipes & Fittings have seamless interior walls and require no special tools for cutting.

- No corrosion, Leakage, scaling, pitting

DIPLAST CPVC Pipes have excellent corrosion resistance, preventing contamination bad taste, bad odour & discolouration of the water. With CPVC there is no corrosive by product ensuring the purest form of water to the very last drop. CPVC pipes are unaffected by the low pH of water, coast; air or corrosive soils.

- Lowest Bacterial Growth

As compared to other piping systems bacterial growth in CPVC is far lower.

- Tough & Reliable

DIPLAST CPVC products are highly resilient, tough and durable with high tensile and high impact strength

The standard for the pipe and fitting is given in the table below:

Dimensions for CPVC Pipes as per IS 15778-2007

Nominal Size(mm)	Size	Nominal Outside Diameter	Mean Outside Diameter		Outside Diameter at any Point		Class 1, SDR 11		
			Min	Max	Min	Max	Avg. Max	Min	Max
20	¾	22.2	22.1	22.3	22.0	22.4	2.5	2.0	2.5
25	1	28.6	28.5	28.7	28.4	28.8	3.1	2.6	3.1
32	1 ¼	34.9	34.8	35.0	34.7	35.1	3.7	3.2	3.7
40	1 ½	41.3	41.2	41.4	41.1	41.5	4.3	3.8	4.3

CPVC FITTINGS

Coupler

Size (mm)	Size (inch)
20	¾
25	1
32	1 ¼
40	1 ½



Brass Elbow 90°

Size (mm)	Size (inch)
20	¾
25	1
32	1 ¼
40	1 ½



Elbow 90°

Size (mm)	Size (inch)
20	¾
25	1
32	1 ¼
40	1 ½



Brass Tee

Size (mm)	Size (inch)
20	¾
25	1
32	1 ¼
40	1 ½



Tee	
Size (mm)	Size (inch)
20	$\frac{3}{4}$
25	1
32	1 $\frac{1}{4}$
40	1 $\frac{1}{2}$



Brass MTA	
Size (mm)	Size (inch)
20	$\frac{3}{4}$
25	1
32	1 $\frac{1}{4}$
40	1 $\frac{1}{2}$



Reducer Coupler	
Size (mm)	Size (inch)
20	$\frac{3}{4}$
25	1
32	1 $\frac{1}{4}$
40	1 $\frac{1}{2}$



Brass FTA	
Size (mm)	Size (inch)
20	$\frac{3}{4}$
25	1
32	1 $\frac{1}{4}$
40	1 $\frac{1}{2}$



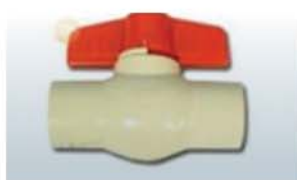
End Cap	
Size (mm)	Size (inch)
20	$\frac{3}{4}$
25	1
32	1 $\frac{1}{4}$
40	1 $\frac{1}{2}$



Tank Nipple	
Size (mm)	Size (inch)
20	$\frac{3}{4}$
25	1
32	1 $\frac{1}{4}$
40	1 $\frac{1}{2}$



Ball Valve	
Size (mm)	Size (inch)
20	$\frac{3}{4}$
25	1
32	1 $\frac{1}{4}$
40	1 $\frac{1}{2}$



Union	
Size (mm)	Size (inch)
20	$\frac{3}{4}$
25	1
32	1 $\frac{1}{4}$
40	1 $\frac{1}{2}$



Reducer Elbow	
Size (mm)	Size (inch)
25 x 20	1 x $\frac{3}{4}$



Reducer Tee	
Size (mm)	Size (inch)
25 x 20	1 x $\frac{3}{4}$





Dimensions for CPVC Pipes as per IS 15778-2007

Properties	DIPLAST CPVC	Copper	GI	PP-R
Corrosion No Effect due to superb	No Effect due to superb chemical resistance	Will corrode over a period time	Corrodes faster & deteriorates	Has certain amount of chemical resistance on quality.
Scaling ,Pitting and Leaching and full bore Flow	Absence of scaling ,pitting and leads to full bore flow	Scaling, pitting and leaching leads to reduce bore flow	Severe scaling, pitting and leaching leads to reduced bore flow	Scaling ,pitting and leaching can occur and reduce bore flow
Thermal conductivity & insulation levels	Lower thermal conductivity reduces heat loss & requires reduced insulation levels	Very high thermal conductivity increases heat loss & requires	Very high thermal conductivity increases heat Loss & requires high insulation levels	Higher thermal conductivity than CPVC, more heat loss & requires higher insulation levels.
Bacterial growth	Extremely low	More than in CPVC	More than copper	Higher than Cpvc
Fire resistance	LOI of is 60% and hence does not catch fire or sustain burning	Being metallic system has better fire resistance	Being metallic system has better fire resistance	LOI is 18%, hence can easily catch fire and sustain buring
Fire resistance	LOI of is 60% and hence does not catch fire or sustain burning	Being metallic system has better fire resistance	Being metallic system has better fire resistance	LOI is 18%, hence can easily catch fire and sustain buring
Installation	Easy, through cold welding, requiring fewer man hours. No electric /heat source required, hence cost effective	Requires highly skilled manpower & electric/heat source	Very slow and cumbersome, require more man-hours.	Jointing process is by heat fusion, requires greater skill & electric /heat source.
Leakage	Leakage installation for the entire life span of the piping system.	Leakage provided carried out by highly trained manpower.	Always susceptible to leakage from day one of installation	Relatively leak free provided high degree of skilled man power is required
Thermal Expansion	Lower ,Leads to less pipe expansions, less looping and offsets	Although thermal expansion is lower, the stresses induced are far greater.	Although thermal expansion is lower, the stresses induced are far greater.	Higher expansion requires more looping/offsets.
Range of fittings	Wide range of lifting makes layout easier and comact for the architects, consultants, builders and end users	Limited range of lifting involves frequent cutting/ welding to achieve the desired layout	Limited range of fittings	Nominal range of fittings
Special Tools	Simple cutter or hex- Saw blade and CPVC solvent cement is adequate for 100% leak proof joint and satisfactory plumbing	Needs special tools like metal cutting flame torch,solder,flux,etc, to carry out the desired plumbing	Needs heavy tools for pipe cutting, threading	Needs special electrical heater to achieve the desired hot welded joint. Any failure can result in poor plumbing

Joining Procedure of DIPLAST CPVC PIPE & FITTINGS



Cutting:

In order to make a proper and neat joint, measure the pipe length accurately and make a small mark. Ensure that the pipe and fittings are size compatible. You can easily cut with a wheel type plastic pipe cutter.

De- Burring /Bevelling:

Burrs and filing can prevent proper contact between tube and fitting during assembly and should be removed from the outside and inside of the pipe. A pocket knife or file is suitable for this purpose. A slight bevel on the end of the tubing will ease entry of the tubing into the fitting socket.

Fitting Preparation:

Using a clean, dry rag, wipe dirt and moisture from the fittings sockets and tubing end. The tubing should make contact with the socket wall 1/3rd to 2/3rd of the way into the fitting socket.

Solvent Cement Application:

Use Only CPVC cement or an all – purpose cement confirming to ASTM- 493 or joint failure may result. When making a joint, apply a heavy, even coat of cement to the pipe end .use the same applicator without additional cement to apply a thin coat inside the fitting socket. Too much cement can cause clogged water ways.

Assembly:

Immediately insert the tubing into the fitting socket, rotate the tube 1/4 to 1/2 turn while inserting. This motion ensures even distribution of cement within the joint. Properly align the fitting. Hold the assembly for approximately 10 seconds, allowing the joint to set up.

Set and cure Times:

Solvent cement set and cure times are a function of pipe size, temperature and relative humidity. Curing time is shorter for drier environments, smaller sizes and higher temperatures. It requires 10 to 20 minutes for perfect joint.

Approximate Number of joints that can be made with one Solvent Cement Can

Nominal Size	Inch	1/2"	3/4"	1"	1- 1/4"	1- 1/2"	2"
	mm	15	20	25	32	40	50
Approx. Number of joints per can	50ml Can	35	23	15	14	10	07
	118ml Can	82	55	34	33	23	17
	237ml Can	164	110	68	66	46	34
	437ml Can	328	220	136	132	92	68
	946ml Can	656	440	272	264	184	136

DIPLAST uPVC COLUMN PIPES

Diplast uPVC column pipes for submersible pumps are designed on latest technology, crafted on the most sophisticated equipment to deliver the desired performance, meeting the challenges of tough & long duty cycle upto 50yrs with an unmatched.

Salient Features:

- ✦ Corrosion Free & inert To chemicals
- ✦ Very Low friction Losses (10 to 30% more water)
- ✦ Cost effective
- ✦ Energy saver
- ✦ Long Life
- ✦ No Electriolytic Deposition
- ✦ Easy installation & handling
- ✦ Non Toxic

Application:

- ✦ Water rising for submersible and jet pump for irrigation, domestic, industrial mining, chemical distribution.
- ✦ A wise replacement for MS ,P P-R, GI, HDPE and SS Column Pipes.
- ✦ uPVC snearly inert towards corrosion, chemical reaction and erosion due to which, it is ideally used in salty, sandy and chemically aggressive water without any effect over the years.
- ✦ Installation: vertical, horizontal or inclined.

Special features & identity

Surface finish of this pipe is extremely smooth which reduces the hydraulic



DIPLAST SWR PIPES & FITTINGS



Diplast Swr Pipes & Fittings

Product Specification

DIPLAST SWR ISI marked pipes are available in both ring fit & self-fit pipes with two different class of pipe named as "Type A & Type B. Type A Pipes are recommended for use in ventilation and rain water application while Type B pipes are recommended for soil and waste discharge application. Pipes are available in all sizes in different lengths with single & double socket.

Ring fit pipes are socketed on automatic online socketing machine with very high degree of accuracy. The socket has groove inside for rubber ring. The rubber ring ensures trouble free water tight joint with allowance to thermal expansion /contraction. One end of the pipes is plain and the other is self socketed with an integral groove to hold the rubber gasket. When joined with a rubber ring, the joint formed is a trouble free, water tight one, ready to take care of thermal expansion/ contraction.

Nominal Diameter	Mean Outside Diameter		Type A Wall Thickness		Type B Wall Thickness	
	Min	Max	Min	Max	Min	Max
70	75.0	75.3	1.8	2.2	3.2	3.8
90	90.0	90.3	1.9	2.3	3.2	3.8
110	110.0	110.3	2.2	2.7	3.2	3.8

All dimension are in mm and are same for ring fit and selfit Pipes. Only socket geometry is different.



DIPLAST SWR Fittings

DIPLAST SWR fitting are available in both grooved ring and pasting type in full range starting from 75 mm to 110 mm and are fully compatible with DIPLAST SWR Pipes.

UPVC SWR Conventional System for soil waste & Rain Water



Testing Requirements

DIPLAST SWR uPVC Pipes & Fittings are subject to strict and continuous control on raw materials, Production, dimensions & identification. The rigorous testing and quality control throughout the entire process ensures that DIPLAST SWR system is highly reliable and effective in working.

Pipes are subject to tests like

- Tensile strength
- Impact strength
- Reversion
- Stress relief test
- Vicat softening temp test
- Water tightness of joint
- Exposure to sunlight
- Resistance to H₂SO₄
- Axial Shrinkage

These acceptance criteria for test results obtained are as per widely accepted international and national standards.

Thermal expansion and contraction:

Diplast SWR piping system will undergo thermal expansion and contraction like any other thermoplastic materials. The thermal expansion & contraction depends on the co-efficient of thermal expansion (5.4×10^{-5} mm/-°C for PVC), Length of piping and temperature difference encountered by the piping. Normally for drainage & sewerage system temperature difference of atmosphere will effect more to thermal movements of piping rather than effluent temperature as full bore discharge are normally not happened for prolong time and also these discharges are periodic in nature. For solvent cement weld systems change in direction, offset or expansion loops are recommended while for ring fit joining systems specially designed rubber rings and proper joining of pipes and fittings will take care of length change.

Please refer joining method section of this catalogue for more details:

Pipe Clip Spacing Distance			
Size (in mm)	75	90	110
Horizontal (in mtr.)	0.9	0.9	0.9
Vertical (in mtr.)	1.8	1.8	1.8

DIPLAST SWR Grooved Ring Fittings



Plain Tee

D	75	90	110
---	----	----	-----

Application: Required to connect Branch Soil/waste line to main line at an angle of 87.5°



Single Tee With Door

D	75	90	110
---	----	----	-----

Application: Same as plain tee with option of door for cleaning purpose



Bend

D	75	90	110
---	----	----	-----

Application: Required to connect adjacent Branch line to main line at an angle of 87.5°/92.5°



Cross Tee With Door

D	75	90	110
---	----	----	-----

Application: Same as plain Cross Tee with option of door for cleaning purpose



Single Y

D	75	90	110
---	----	----	-----

To Connect a branch soil waste pipeline to the main Vertical line at an angle of 45 degree



Reducing Door Tee

D	110 x 75	110 x 90
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To Connect a reducing soil waste line to the main line at angle of 87.5 degree.

DIPLAST SWR Grooved Ring Fittings



Bend 45°

D	75	90	110
---	----	----	-----

Mostly used as a shoe for rain water drainage line. Can also be used for providing a 45° turn to the pipe line.



Bend With Door

D	75	90	110
---	----	----	-----

Function is same as a plain bend with a threaded door for cleaning purpose



Reducer

D	75	90	110
---	----	----	-----

Used to reduce a main line



Coupler

D	75	90	110
---	----	----	-----

To Connection two Length of Pipe.

DIPLAST WATER STORAGE TANK

DIPLAST Water Storage Tanks are manufactured on sophisticated roto moulding machine with latest technology. Diplast Water Tanks are rust proof, leak proof, consistent in quality, easy to clean and easy to install.



Diplast tanks are available in double, triple, four & five wall construction. Five wall construction gives heat insulation, rigidity and impact strength and is recommended for all application in cold & hot regions. It has white innermost surface. Dust particles can be easily spotted and cleaned. The water remains more hygienic. This insulation in between the walls is a format material to avoid heat or cold transfer from outside.

SPECIFICATIONS

ISI Marked: Double Layer Tank

S.No	Capacity	Dia (cms)	Height (cms)
1	100 Ltr.	45	72
2	200 Ltr.	60	86
3	300 Ltr.	66	97
4	500 Ltr.	85	100
5	750 Ltr.	99	108
6	1000 Ltr.	102	130
7	1500 Ltr.	115	155
8	2000 Ltr.	138	153

Super: Double Layer Tank

S.No	Capacity	Dia (cms)	Height (cms)
1	100 Ltr.	45	72
2	200 Ltr.	60	86
3	300 Ltr.	66	97
4	500 Ltr.	85	100
5	750 Ltr.	99	108
6	1000 Ltr.	102	130
7	1500 Ltr.	115	155
8	2000 Ltr.	138	153
9	3000 Ltr.	160	180
10	5000 Ltr.	188	204

Tuff: Double Layer

S.No	Capacity	Dia (cms)	Height (cms)
1	100 Ltr.	45	72
2	200 Ltr.	60	86
3	300 Ltr.	66	97
4	500 Ltr.	85	100
5	750 Ltr.	99	108
6	1000 Ltr.	102	130
7	1500 Ltr.	115	155
8	2000 Ltr.	138	153



GOLD(Outer Colour): Triple Layer

S.No	Capacity	Dia (cms)	Height (cms)
1	500 Ltr.	85	100
2	750 Ltr.	99	108
3	1000 Ltr.	102	130
4	1500 Ltr.	115	155
5	2000 Ltr.	138	153
6	3000 Ltr.	160	180
7	5000 Ltr	188	204



GOLD + (Outer White): Triple Layer

S.No	Capacity	Dia (cms)	Height (cms)
1	500 Ltr.	85	100
2	750 Ltr.	99	108
3	1000 Ltr.	102	130
4	1500 Ltr.	115	155
5	2000 Ltr.	138	153
6	3000 Ltr.	160	180
7	5000 Ltr	188	204



Diamond (Outer Colour) with Foam: Triple Layer

S.No	Capacity	Dia (cms)	Height (cms)
1	500 Ltr.	85	100
2	750 Ltr.	99	108
3	1000 Ltr.	102	130
4	1500 Ltr.	115	155
5	2000 Ltr.	138	153
6	3000 Ltr.	160	180



Platinum (Outer Colour) with Foam: Four Layer

S.No	Capacity	Dia (cms)	Height (cms)
1	500 Ltr.	85	100
2	750 Ltr.	99	108
3	1000 Ltr.	102	130





Platinum with Foam Insulated: 5 Layers

S.No	Capacity	Dia (cms)	Height (cms)
1	500 Ltr.	85	100
2	750 Ltr.	99	108
3	1000 Ltr.	102	130



Loft Tank

S.No	Capacity	Length (cm)	Width (cms)	Height (cms)
1	150	66	66	35
2	500	140	100	37

DIPLAST BLOW MOULDED TANK

Diplast has introduced Blow Moulded Tank.

Diplast Blow moulded Tanks 100% Hygienic .Pure food grade inner layer with natural Hygienic polymer that ensures the water does not get unhealthy when filling the Tank. More Powerfully: The additionally five layers make it more robust than other tanks Excellent Structure with bolder ribs support stability & bulging of the tank. Preserve Water Safe: State of art airtight threaded lid ensures that the content of tanks is free from dust and insects.



Diplast offers diverse varieties of Tanks ranging from single layers to five layers. Diplast's High Quality range of water storage tanks bring together an array of unique & distinctive feature like:

- Leak proof
 - Rust proof
 - Moulded for seamless looks
 - Light weight
 - Hygienic
 - Maintenance free
 - Durable & economical reduced operational Costs
 - Meet maximum customer needs
 - Available in capacities from 300Ltrs-2000Ltr
 - Unbreakable
- Blow Moulded for extra strength

SPECIFICATIONS:

Vertical overhead Tank				
S.No	Capacity (Ltr.)	Overall Diameter (mm)	Overall Height (mm)	Diameter of Manhole (mm)
1	300 Ltr.	700	950	420
2	500 Ltr.	850	1050	420
3	750 Ltr.	950	1180	420
4	1000 Ltr.	1100	1250	420
5	1500 Ltr.	1220	1470	420
6	2000 Ltr.	1350	1575	420



DIPLAST DUSTBIN

Diplast Dust Bins are rotationally moulded from tough industrial polyethylene giving strength & durability to the Product to last for years & years. All surfaces are smooth ,easy to clean & may be screen Printed to promote the corporate image.

The Dust Bins can safely be installed in open spaces. These can be fixed to the ground & can be emptied easily by rotating. These are ideal for public places, markets & plazaa and any outdoor places.

MAIN FEATURES:

- Manufactured from a high quality virgin polyethylene.
- Available in attractive colours.
- Corrosion resistant and it can be easily maintained.
- It can also be manufactured according to your design and requirement.

APPLICATIONS:

DIPLAST Dust Bins are becoming must at every outdoor as well as Indoors, Roadsides, Parks, Shopping Centres, Plazas Hotels, Airports, Railway Stations, Auditoriums, Nursing Homes, Fast Food, Dhabas, Picture Halls, Schools, Offices and Hospitals for Keeping Proper Cleanliness.

SPECIFICATIONS:

S.No	Capacity	Overall Dimension		
		Length	Width	Height
1	40 Ltrs.	380 x 300	350 x 270	490



S.No	Capacity	Overall Dimension		
		Length	Width	Height
2	70 Ltrs.	440 x 360	400 x 320	470



S.No	Capacity	Overall Dimension		
		Length	Width	Height
3	80 Ltrs.	460 x 360	460 x 360	550



S.No	Capacity	Overall Dimension		
		Length	Width	Height
4	100 Ltrs.	540 x 360	440 x 250	820



S.No	Capacity	Overall Dimension		
		Length	Width	Height
5	125 Ltrs.	420 x 420	400 x 400	1000



S.No	Capacity	Overall Dimension		
		Length	Width	Height
6	150 Ltrs.	490 x 440	530 x 420	970



DIPLAST DUST BIN (SET OF 3) WITH TROLLEY STAND

S.No	Code No.	Capacity	Length	Overall Dimension Width	Height
1	SDB-4WT	100 Ltr.	54 x 36	44 x 25	82

Note : Also Available in Mild Steel Stand.



Product Code: SDB –FS-105
Dimension: 490x530x970
Volume: 150 Ltr

DIPLAST DUSTBIN WITH TROLLEY WHEEL



Product Code: SDB –FS-100
Dimension: 380x350x670
Volume: 40 Ltr



Product Code: SDB –WT-101
Dimension: 440x400x630
Volume: 70 Ltr



Product Code: SDB –WT-103
Dimension: 540x440x820
Volume: 100 Ltr



Product Code: SDB –FST-103
Dimension: 540x440x820
Volume: 100 Ltr



Product Code: SDB –WT-104
Dimension: 420x400x1000
Volume: 125 Ltr

DIPLAST PORTABLE TOILET

These Toilets Blocks comprises of 4, 6, 8 Toilets on a single platform which have Male/ Female/Men Urinals fitted depending upon the requirement of the customer. Ready to use Public Toilet Block is suitable for mounting on a single Platform/ plain ground. The public Toilet shall be fabricated at factory side. The public toilet is manufactured by using roto-molded process for superstructure and base, as per the detailed specifications given below:



OVERALL MINIMUM SIZE OF BASE:

Floor:

The Toilet is made from LLDPE (Low Density Polyethylene) panel supported over MS Structure. The floor is finished suitably with Aluminium Chequered Plate.

Size: External- 3'-6"X3'-6"X6'-6" (LXWXH).

Shape:

The shape of the toilet is octagonal.

Roof:

Roof is made of domb type shape moulded along with Toilet, so that water automatically drips.

Walls:

Walls of toilet is made of LLDPE material of one piece moulded minimum 9 mm thick

Base Frame:

The toilet block is mounted on a base Angle frame placed at above Natural ground level, which can be grouted in soil below ground about 6ft.

Special handle are provided on two side of toilet block for easily shifting, loading & un-loading the whole block.

Door:

1no of Door are provided for entry. The door of the toilet is 8 mm thick & its size is 6'x 2'-1/2" approximate with MS angle frame. The door panel outward opening type with single leaf closing panel.

Water storage Tank:

Minimum 150 Litres Rectangular LLDPE water storage tank, is provided with cover and suitable locking arrangement of water tank with portal structure / walls and making necessary holes for inlet, outlet and overflow pipes, the tank kept 1500mm above the floor.

Internal work:

Exposed on wall with 20mm nominal outer dia. Pipes of PP-R and bib cock of approved quality and colour with 15mm nominal bore.

- ✦ Wash Basin - 1 Nos.
- ✦ Bib Cock - 2Nos
- ✦ Angle Cock -Nos
- ✦ Wastage Pipe -1Nos
- ✦ Waste Pipe- 1Nos.
- ✦ Male urinals
- ✦ Male toilet
- ✦ Female Toilet
- ✦ Drainage Pipe



DIPLAST Bio Digester Tank

Now Diplast has offered Bio Digester Tank to be supplied with ready to use DIPLAST Portable Toilet.

Bio digester/ Bio Tanks:

DIPLAST Bio Tanks is a complete waste management solution which reduces solid human waste to bio gas & pure water, with the help of bacterial inoculums. This Tank made of LLDPE with provision of inlet for human waste and outlets for treated effluent and biogas. The bio digester has four chambers to increase the waste path length thereby improving contact time, sedimentation and degradation. The dimensions and internal designs may vary according to number of users, water availability and prevailing geo-climatic conditions. When human wastes come in contact with bacteria, it gets converted into methane and water.

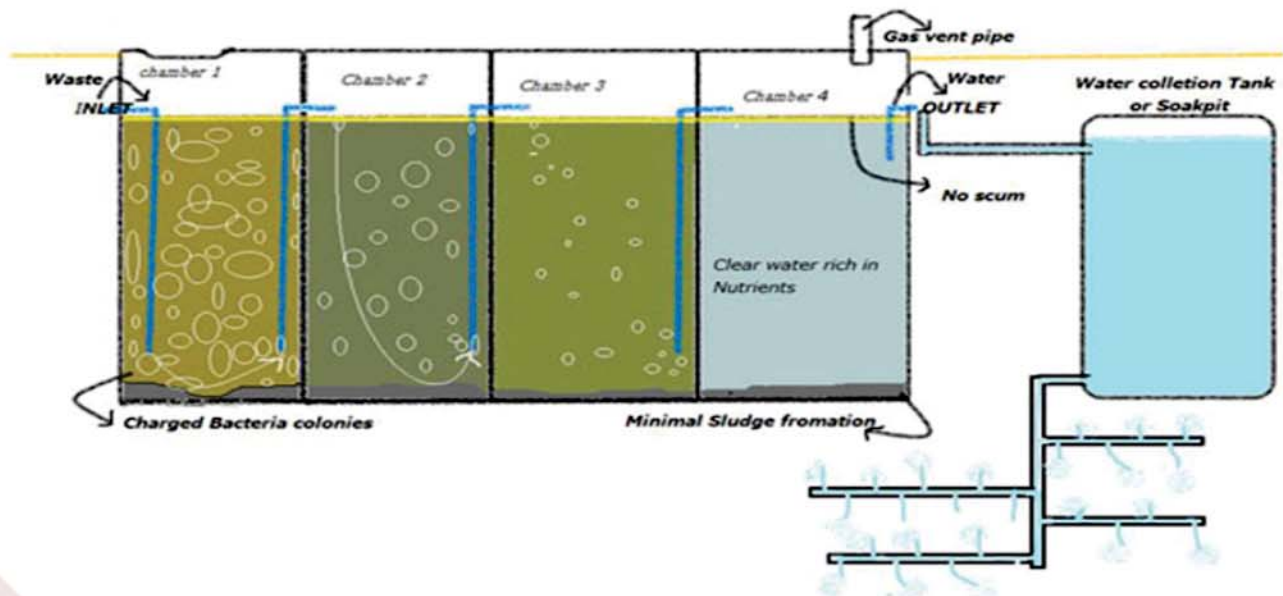
in the first step, they are converted into simple sugars, amino acids and fatty acids.

in the next step, these break to form carbonic acid, alcohols, hydrogen and water.

in the third step, acetic acid, hydrogen and carbon dioxide are formed.

in the last step, methane, carbon dioxide and water are formed. The effluent is odourless and devoid of most of the pathogens.

How does DIPLAST Bio Digester Tank works ?



Advantage of DIPLAST Bio digester / Bio tank:

- Simple in design • Require less maintenance • Can be in operation up to years together
 - No bad smell in toilets from the tanks • No infestation of Cockroaches & flies
- Effluent is free from off odour and solid waste • Reduction in organic matter by 90%
 - No need of removal of solid waste • No requirement of adding bacteria/ enzyme

Bio-tank vs. Septic Tank

Septic Tank	Diplast Bio Digester Tank
Require larger space, bigger volume.	Requirement is 40 to 70 % less
Not efficient	Effluent is well treated and safe
Sludge needs periodic evacuation	No such needs
Obnoxious smell	No smell Generation of odorless and inflammable biogas
Unhygienic disposal	No such requirement
Intensive Maintenance	Only one time charging of inoculums
Water requirement is high	Minimizes water consumption
Cost intensive	Cheaper in long run

STARTUP OF BIODIGESTERS:

Once the bio digester is housed under the soil/ mobile platform and connected to the toilet it is loaded with 30- 40% of working volume of Bio-digester with Anaerobic Microbial inoculums either from the chamber or from toilet. As far as possible, precaution should be taken that during addition of inoculums it is exposed to minimum oxygen. After two days of installation the facility can be used.

Capacity: Available in 300Ltrs & 500 Ltrs

Size: 40" x 24" x20" & 50" x 31" x 20"

DIPLAST PORTABLE WATERLESS URINALS

Now, DIPLAST has come with waterless Urinals, which do not require water for flushing & sanitation. They save money & help protect valuable natural resource i.e. water. If we use this technology then we can save on average 75,700 to 1, 70,000 Liters of water per urinals per year.

How they work?

Urine flows down the bowl of the urinals passes through a strainer, and then passes through a sealing Liquid, specially designed oil based fluid & passes through the waste pipe below. Urine flows into traps, passes through sealant liquid that floats above urine & seals the odour.



Features:

- Water less
- Odorless sanitary
- Touch free
- No flush meter
- No valve repair
- Reduce Vandalism
- No pressure requirements
- Reduced risk exposure simplest installation no overflows
- No deodorized needed
- Upgraded facility
- Minimizes waste volume
- Minimizes sewer line encrustation
- LEED Applicable

Applications

- Commercial Building
- Industry
- Military
- Airport
- Hospitals
- Offices
- Schools and collages
- Parks, Rest stops, Playgrounds
- Sport & Recreational Facilities, Camps
- Portable Applications
- Maritime applications
- Trains/ buses



**Ordinary Male Urinal
also available**

Diplast Waterless Urinals

The Diplast is engaged in the continuous pursuits of innovation and adaption. Diplast has a commitment to protect and preserve our water resource while at the same time creating and sustaining social values for our natural environment.

Maintenance

- The dry urinals surface is liquid repellent and hostile to bacteria.
- The seal layer is replenished with 90 ml at about 1500 use intervals.(i.e. on average 2 times a month in a school)
- Task Time : 20 sec
- The trap retains sediments and acts like filter. It is easily replaced one to six times a year according to traffic.
- Task time 3-4 min.
- Traps inserts are the most economical on the market today.
- Using seal guarantees proper functioning of the system and adds a pleasant restroom fragrance.
- Diplast ordinary Portable Urinals

DIPLAST COMPOST BIN

We are offering a Diplast Compost Bin which can be used for Composting. You can convert your kitchen & garden waste into valuable nutrients rich in food for your garden growth. Diplast are offering 70Ltrs, 100 & 125 Ltrs Bins or any size according to requirement of customers.

Why Compost?

Compost is an inexpensive natural fertilizer that supplies nutrients to the plants

- Compost Bin can be installed near kitchen, Garden or Garage are good option
- Compost bin will perform best if protected from wind but receive partial sunlight
- You may use three bins of compost
 1. Use first bin for initial materials and allow to compost for 3-5 weeks
 2. Move first compost to second bin for 4-7 weeks and start another batch in the first
 3. Third bin is for finished or nearly finished.
- A 50/50 mix of greens and browns (see below) is the perfect recipe for good compost.



Making a good compost

The key to good compost lies in getting the mix right. You need to keep your greens and browns properly balanced. If your compost is too wet and gives off an odour, add more browns. If it's too dry and is not rotting, add some greens. Air is essential to the composting process and by mixing material up, as you fill your bin, it will create air pockets and help keep your compost healthy. Good things you can compost include vegetable peelings, fruit waste, teabags, plant pruning and grass cuttings. These are considered "greens". Greens are quick to rot and they provide important nitrogen and moisture. Other things you can compost include cardboard egg boxes, scrunched up paper and small twigs. These are considered 'browns' and are slower to rot. They provide fibre and carbon and also allow important air pockets to form in the mixture. Crushed egg shells can be included to add useful minerals.

GREEN	BROWN
Tea bags	Crushed egg shells
Grass cuttings	Egg and cereals boxes
Vegetables peeling, salad leaves and fruit scraps	Corrugated cardboard and paper(scrunched up)
Old flowers and nettles	Toilet and kitchen roll tubes
Coffee grounds and filter paper	Garden pruning
Spent bedding plants	Twigs and hedge clippings
Young annual weeds(e.g. chickweeds)	Straw and hay
	Bedding from vegetarian pets
	Ashes from wood, paper and lump wood charcoal
	Sawdust and wood chippings
	Wool
	Woody clippings
	Cotton threads and string(made from natural fibre)
	Feathers
	Vacuum bag contents
	Old natural fibre clothes(cut into small pieces)
	Tissues, paper towels and napkins
	Shredded confidential documents
	Corn cobs and stalks

Certain things should never be placed in your bin. Do not put in....

- Cooked meat and Dairy Products
- Diseases plants
- Animals manure or baby's nappies

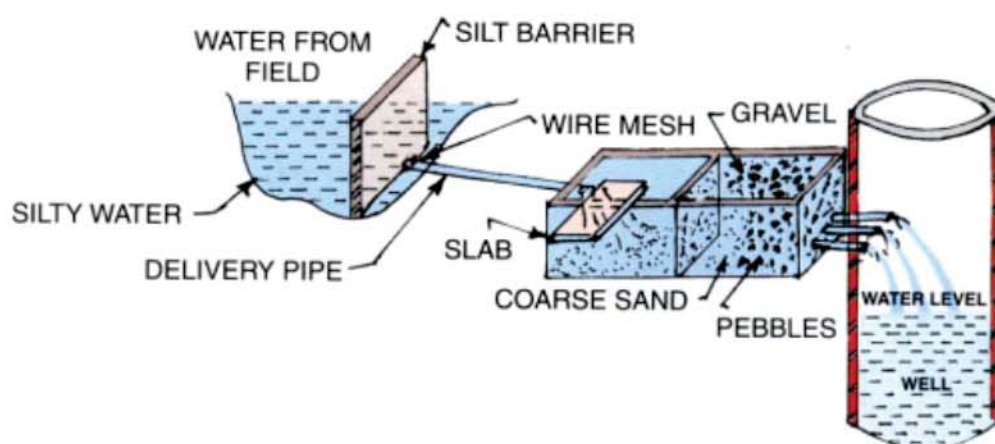
Final compost is a dark, crumbly substance with an earthy odour

Vermi Compost

You can also use this bin as Vermicompost Bin by using various worms, usually red wigglers, white worms and other earthworms, to create a heterogeneous mixture of decaying vegetable or food waste. Vermicompost also called worm castings, worm humus or worm manure is the end-product of the breakdown of organic matter by an earthworm. By Vermicompost, the process of converting organic matter to compost will be faster.

DIPLAST RAIN WATER HARVESTING SYSTEM

Prosperity is controlled by water. It is one of the major components in human body. It also covers 75 per cent area of the earth. Water, on one hand, can support and preserve life, while on the other hand, it can be fatal to life if not properly handled. The rainfall that is the major source of water is not evenly distributed throughout the year due to which during the monsoon period, there is surplus water, which goes as a waste in the form of surface runoff directed towards rainwater harvesting especially during the rainy season.



Scope

Rainwater harvesting system has been introduced by the leading manufacturers of famous "DIPLAST" brand Rigid PVC pipes & Water Storage Tanks. Such harvesting systems have become the need of the hour for effective utilization of rainwater to overcome the present-day water crisis.

Ground Water Recharging (Charge into Under Ground for Withdrawal)

A recent study shows that the groundwater level is depleting alarmingly due to excessive tapping of underground water. The pace of development ever-increasing population in urban areas has led to the over-exploitation of available water resource. Therefore, artificial recharge is very essential.

Rain water Harvesting offers the following benefits

- It also migrates the problems of the farmers of lowering the tubewell bore again and again where ground water level frequently goes down.
- It helps in utilizing the primary source of water and prevents the runoff from going waste
- It reduces flooding in urban states
- It improves the vegetation cover
- It enhances the timely availability of ground water
- It raises the water levels in well and bore wells that are drying up.
- It reduces the soil erosion as the surface runoff is reduced.
- It helps in saving of energy as one meter rise in water level saves about 0.40 kwh of electricity while lifting the ground water.



rainwater harvesting

DIPLAST Other Moulded Products

DIPLAST KIDS SWIMMING POOL



DIPLAST HAS INTRODUCED KIDS SWIMMING pool for children which is sturdy in nature.

Complete pool has been moulded as one piece on the Rotational Moulded Machine.

- The approximate diameter of the Pool is 5 Ft. & height 2 ft.
- It is suggested that this pool should be embedded in the ground with approximately six inches above the ground. Robust & quality Plastic has been used to manufacture this pool.
- The Pool is for the children above 3 year & has smooth internal surface, so that there is no harm or injury to the child while playing in water.
- This type of Pool can be put in your rear lawn & children can swim or play during the summer in this pool.
- The material which has been used for manufacturing the pool is LLDPE (Linear Low Density Polyethylene). It keeps the surface free from rusting & the water in the pool will remain hygienic throughout without any possibility of contamination.
- The pool is available in red, blue, green & yellow colours & is very reasonably priced

DIPLAST TROLLEY



Features

- Light weight
- One piece stress-free moulding
- Available in different colours
- Available in two different size Medium & Big

DIPLAST Trolley are rotationally moulded from tough LLDPE material. All surfaces are smooth, easy to clean & easy to move from one place to another

DIPLAST PLANTER

DIPLAST now offers Diplast Planters to enhance the beauty of the plants, at the same time, make sure that the planters are compatible with the rest of the room; these planters are made out of tough plastic material and are unbreakable.

House plants beautify with their foliage, add freshness any room and bring some of the outdoor beauty inside. Practical as well as aesthetically at least a few plants are essential to any scheme.

Simple, geometric shapes are made with an easily maintained gloss finish. Perfect for indoor or outdoor use, the planters come in white chips or can be made to order in any colour at no extra cost.

DIPLAST PLANTERS are available in two different sizes.



Size	Height(cms)	Dia(cms)
Small Planter	33	27
Big Planter	42	33

DIPLAST PLANTERS can be easily maintained.
A wipe with a mild detergent with the help of soft sponge is usually enough.

DIPLAST SITTING BENCH



Features

- Light weight
- One piece stress – free moulding
- Available in attractive colours
- Most economical & durable.
- Convertible into a bed by using four benches
- Size:

Hydrotech Farming System/ Soil Less Culture

Good News for Flats/Apartments Grow your own Fruits And vegetables

DIPLAST

Offers

Soil Less Culture- Hydro tech farming

Now, you can grow your own fruits and vegetables in soil less culture with the help of Nutrients in water. Perhaps, it is very one's dream to grow fruits and vegetables at their own house to avoid adulterated grown. These soils less culture offer a healthy plant with fast growth without any disease and pesticides. Basically , hydro tech farming is a technology for growing plants in nutrients solution that supply all nutrients elements needed for optimum growth of the plant with the use of inert medium either of Rock wool/ peat moss/saw dust/coir dust/coconut fibre etc to provide mechanical support. DIPLAST offers a complete technical know-how i.e. the system consisting of pipes and water tanks along with the pumps and the nutrients solution. This arrangement of hydro- tech farming can be fixed in your balcony where fresh air and the sun is available. It is also possible to grow these fruits & vegetables by this method in the controlled atmosphere and all kind of non-seasonal vegetables and fruits can be produced. Moreover, the produce of the plant by this method is almost double than the average plant in the soil. This hydro tech farming system can be installed in the remote areas like high altitudes or desert of even at space stations. Home hobbyists generally use this system for quickly raising the plants to maturity. Because they are able to grow crops of highest quality and many times in a year in relatively small area.





ISO 9001:2015 CERTIFIED COMPANY

IS : 12701



Diplast Water
Storage Tanks

IS : 4985



Diplast PVC
Pressure Pipes

IS : 9537



Diplast PVC
Electrical Conduits

IS : 13592



Diplast PVC
SWR Pipes



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