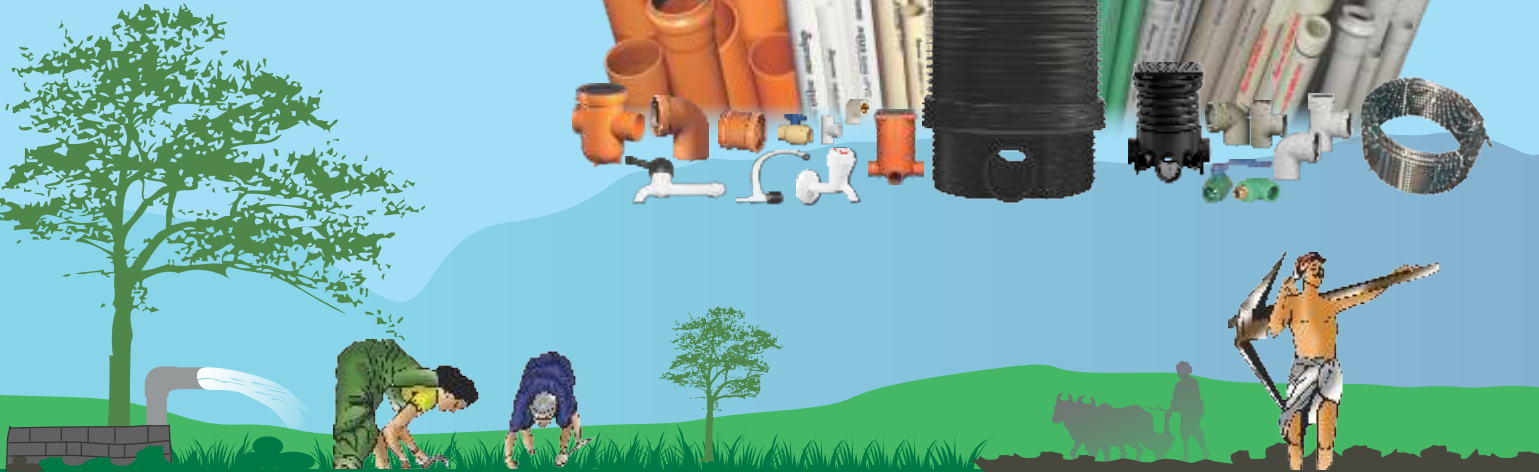


Supreme®
People — who know plastics best

Total Piping Solution



Eco-friendly products for better life...



Jeevan bhar ka saath...



THE SYSTEM

Supreme "lead free" aqua gold high pressure uPVC solvent weld plumbing system, is the most suitable, easy and economical solution for transportation and distribution of potable water. It is technically superior, cost effective and offers many advantages over conventional G.I. piping system. This system is very easy to install and functionally most suitable for plumbing application like terrace looping, down-take and up-take lines, concealed pipe work in any building or construction. Apart from more than 40-50% cheaper to G.I. piping system, it has many more years of service life. This hygienic system is endowed with many good features and approved by MCGM. Aqua Gold is a value added long term plumbing solution for building industry.

Aqua gold pipes in 15 to 200mm (½" to 8") sizes are manufactured as per ASTM D-1785 and a wide range of fittings in SCH 80 as per ASTM D-2467. In addition to this, SCH 40 fittings in 15 to 50mm (½" to 2") are also available as per ASTM D-2466. The pipes are supplied without socket i.e. 3 meter lengths, in SCH 40 and SCH 80 pressure class.

FEATURES AND BENEFITS

Stronger, Resilient and Longer lasting - This system is highly resilient, tough and durable with high tensile and impact strength. Moreover it is free from weaknesses caused by rusting, weathering and chemical action, and hence lasts for a life time.

Mechanical properties - The uPVC pipes are relatively more flexible. They have adequate tensile strength and burst strength to withstand the operating pressures encountered in almost all service conditions within the acceptable range of temperature. External shocks or impacts that could cause failure in more rigid materials can be absorbed by the system with little or no damage.

Excellent chemical and corrosion resistance - This system is free from corrosion and has excellent resistance to various chemicals like strong mineral acids and bases.

Light weight - Being light in weight (1/6th the weight of metal piping), these pipes are easy to handle, transport and install.

Simple and leak proof joints - Jointing can be done speedily with the special solvent cement supplied by the company which ensures 100% leak proof joints.

Most suitable for carrying drinking water - Being non metallic, this system is free from corrosion, chemical action, and negative biological effects, hence absolutely safe for carrying potable water.

Optimum flow rates - Mirror-smooth inside surface ensures high flow rate and low frictional losses. This system is free from rusting, pitting and offers good resistance to scale formation.

Piping system integrity - Supreme aqua gold offers pipes with a large range of fittings. This implies a complete system solution made of the same material.

Overall Economy - Due to light weight and simple joining technique, it saves cost not only on material but also on transportation and installation.

Dimensions and water pressure rating at 23°C as per ASTM D-1785

Nominal Size		Outside Diameter (D) in mm	Schedule 40				Schedule 80			
			Wall Thickness (t) in mm	Working Pressure		Wall Thickness (t) in mm	Working Pressure			
mm	inch	kgf/cm ²		psi	kgf/cm ²		psi			
15	½"	21.34 ± 0.10	2.77 + 0.51	41.4	600	3.73 + 0.51	58.6	850		
20	¾"	26.67 ± 0.10	2.87 + 0.51	33.1	480	3.91 + 0.51	47.6	690		
25	1"	33.40 ± 0.13	3.38 + 0.51	31.0	450	4.55 + 0.53	43.4	630		
32	1¼"	42.16 ± 0.13	3.56 + 0.51	25.5	370	4.85 + 0.58	35.9	520		
40	1½"	48.26 ± 0.15	3.68 + 0.51	22.8	330	5.08 + 0.61	32.4	470		
50	2"	60.32 ± 0.15	3.91 + 0.51	19.3	280	5.54 + 0.66	27.6	400		
65	2½"	73.02 ± 0.18	5.61 + 0.61	20.7	300	7.01 + 0.84	29.0	420		
80	3"	88.90 ± 0.20	5.49 + 0.66	17.9	260	7.62 + 0.91	25.5	370		
100	4"	114.30 ± 0.23	6.02 + 0.71	15.2	220	8.56 + 1.02	22.1	320		
125	5"	141.30 ± 0.25	6.55 + 0.79	13.1	190	9.52 + 1.14	20.0	290		
150	6"	168.28 ± 0.28	7.11 + 0.86	12.4	180	10.97 + 1.32	19.3	280		
200	8"	219.08 ± 0.38	8.18 + 0.99	11.0	160	12.70 + 1.52	17.2	250		

Based on world's best Japanese material and technology

Lifeline® C-PVC

Supreme®
People who know plastics best

Hot and Cold water system

... The latest and reliable plumbing system



THE SYSTEM

Supreme Lifeline C-PVC is long lasting and cost effective solution for hot and cold water. This system is suitable for all plumbing and potable water application. The pipes and fittings are made of chlorinated polyvinyl chloride and available in complete range from 15 to 50mm (½" to 2") as per copper tube sizes (CTS). The pipes are available in SDR 11 and SDR 13.5 whereas fittings are available in SDR11 pressure class. Pipes and most running fittings in SDR 9 i.e. heavy pressure class in 20 and 25mm (¾" and 1") are also available. Threaded inserts in the transition fittings are made from brass. Supreme Lifeline C-PVC pipes and fittings are manufactured according to IS15778 and ASTM D-2846 respectively. Pipes and fittings in 65 to 100mm (2½" to 4") are also available in IPS series (inch series similar to aqua gold) as per ASTM F441 and F439 respectively. The choice of the raw material, the structural accuracy and the high quality imparts high degree of reliability and approved by WRAS, UK and MCGM.

FEATURES AND BENEFITS

Excellent resistance to corrosion and chemical attacks - Lifeline is absolutely free from corrosion and offers excellent resistance to various chemicals like strong mineral acids and bases.

Ideal system for carrying drinking water - Lifeline is absolutely free from corrosion and negative biological effects. It does not break down under the harshest water condition hence the quality of water never deteriorates.

Light weight, easy and quick assembly - With simple solvent cement jointing method gives extensive saving on time and labour

Tough and Rigid material - C-PVC has a much higher strength modulus than other thermoplastics, as a result it can withstand high pressure and temperature. Due to its tough and rigid material properties, it requires less supports and minimum offsets or looping.

Simple and leak proof joints - Jointing can be done speedily with special solvent cement supplied by the company which ensures 100% leak proof joints.

Low thermal expansion - As co-efficient of thermal expansion is low, expansion due to temperature variations is reduced and hence unsightly snaking of pipes can be avoided.

Superior insulation property - Lifeline has better insulation properties than metal pipes, thus reducing heat loss and insulation requirement.

Fire Resistance - Lifeline C-PVC does not support combustion.

Maintenance free - Being free from rusting, pitting or scaling and galvanic or electrolytic corrosion, maintenance is minimal.

Overall Economy - This system is most cost effective than any other plumbing system.

Pipe dimensions and pressure rating chart as per IS15778 (CTS Series)

Nominal Size		Outer Diameter (D) in mm		SDR - 9 (company standard)				SDR - 11				SDR - 13.5			
				Wall Thickness (t) in mm		Working Pressure at		Wall Thickness (t) in mm		Working Pressure at		Wall Thickness (t) in mm		Working Pressure at	
						27°C	82°C			27°C	82°C			27°C	82°C
mm	inch	Min.	Max.	Min.	Max.	Kgf / cm ²		Min.	Max.	Kgf / cm ²		Min.	Max.	Kgf / cm ²	
15	½	15.8	16.0	—	—	—	—	1.70	2.20	27.60	6.80	1.40	1.90	21.80	5.50
20	¾	22.1	22.3	2.50	3.00	35.20	8.80	2.00	2.50	27.60	6.80	1.70	2.20	21.80	5.50
25	1	28.5	28.7	3.20	3.80	35.20	8.80	2.60	3.10	27.60	6.80	2.10	2.60	21.80	5.50
32	1¼	34.8	35.0	—	—	—	—	3.20	3.70	27.60	6.80	2.60	3.10	21.80	5.50
40	1½	41.2	41.4	—	—	—	—	3.80	4.30	27.60	6.80	3.10	3.60	21.80	5.50
50	2	53.9	54.1	—	—	—	—	4.90	5.50	27.60	6.80	4.00	4.60	21.80	5.50

Pipe dimensions and pressure rating chart as per ASTM F 441 (IPS Series)

Nominal Size		Outer Diameter (D) in mm		Schedule 40				Schedule 80			
				Wall Thickness (t) in mm		Working Pressure at		Wall Thickness (t) in mm		Working Pressure at	
						23°C	82°C			23°C	82°C
mm	inch	Min.	Max.	Min.	Max.	Kgf / cm ²		Min.	Max.	Kgf / cm ²	
65	2 ½	72.84	73.20	5.16	5.77	20.70	5.20	7.01	7.85	29.00	7.20
80	3	88.70	89.10	5.49	6.15	17.90	4.50	7.62	8.53	25.50	6.20
100	4	114.07	114.53	6.02	6.73	15.20	3.80	8.56	9.58	22.10	5.50

LIFELINE C-PVC



THE SYSTEM

Designed for hot and cold water, Supreme indo green PP-R is the latest and most suitable system for all plumbing applications. The specific chemical structure of indo green PP-R provides the well balanced mechanical properties and superior long term heat resistance. More importantly, the water flowing through it does not have any negative biological effect and hence considered most hygienic. Indo green pipes are approved and listed by W.R.A.S., UK, thus endorse its suitability for potable water. Indo green PP-R is the most ideal solution for housing sector and approved by MCGM.

Raw Material - The Supreme indo green pipes and fittings are made of polypropylene random copolymer type - 3 (PP-R), supplied by reputed companies which have Bodycote certification. 'Bodycote' is an independent International testing body certifying the raw material. It has high molecular weight and excellent creep resistance, which are fundamental characteristics for the transportation of hot fluids under pressure.

Product Specifications and Range

Supreme indo green pipes are manufactured according to IS 15801 whereas fittings are manufactured as per ISO 15874. Supreme indo green pipes and fittings are available in 20 to 160mm sizes. Pipes are supplied in 3m lengths in SDR-11, SDR-7.4 and SDR-6 pressure class whereas fittings are available in PN 20. Threaded inserts in the transition fittings are made from brass.

FEATURES AND BENEFITS

Light weight, easy and quick assembly - which results in extensive saving on time and labour.

Most suitable for carrying drinking water - PP-R is absolutely free from corrosion, and negative biological effects. It does not break down even under the harshest water conditions, hence the quality of water never deteriorates. It is in full compliance with the International standards on the use of plastic materials for the transportation of potable water.

Excellent corrosion and chemical resistance - PP-R offers a considerable resistance to various chemicals, aggressive soils and fluids in the external environment.

Low thermal conductivity - which results in much saving on insulation costs thereby reducing overall operational costs.

Mirror smooth inside surface - This ensures high flow rates and very low frictional losses.

High impact strength - Indo green PP-R has a very good impact strength and hence no possibility of breakage.

Safe and watertight joints - Joint formed by polyfusion welding are homogeneous, integral and watertight, which lasts for long time.

Free from scaling - Due to unique properties of indo green PP-R, it is free from scaling and the resultant blockage in the pipelines.

Long operational durability - Indo green PP-R offers minimum 50 years of trouble free performance.

Overall Economy - This system is more cost effective than any other plumbing system. Moreover, due to savings in installation and insulation costs, this system is even comparable with standard make GI, C class piping system.

UV-Resistance - Special exterior UV- resistant layer on the pipes makes them safe against ultra-violet rays and hence suitable for external applications.

Pipe dimensions as per IS 15801 specifications

Nominal Size	Outer Diameter (D) in mm		SDR - 11 (PN 10)		SDR - 7.4 (PN 16)		SDR - 6 (PN 20)	
			Wall Thickness (t) in mm		Wall Thickness (t) in mm		Wall Thickness (t) in mm	
mm	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
20	20.0	20.3	1.90	2.30	2.80	3.30	3.40	4.00
25	25.0	25.3	2.30	2.80	3.50	4.10	4.20	4.90
32	32.0	32.3	2.90	3.40	4.40	5.10	5.40	6.20
40	40.0	40.4	3.70	4.30	5.50	6.30	6.70	7.60
50	50.0	50.5	4.60	5.30	6.90	7.80	8.30	9.40
63	63.0	63.6	5.80	6.60	8.60	9.70	10.50	11.80
75	75.0	75.7	6.80	7.70	10.30	11.60	12.50	14.00
90	90.0	90.9	8.20	9.30	12.30	13.80	15.00	16.70
110	110.0	110.9	10.00	11.20	15.10	16.90	18.30	20.40
160	160.0	161.5	14.60	16.30	21.90	24.30	26.60	29.50

S.W.R.

uPVC Soil, Waste and Rainwater Drainage System

... No leakage, No breakage, No blockage

Supreme[®]
People who know plastics best



THE SYSTEM

Supreme is the pioneer in introducing this efficient S.W.R. drainage system to India. It has successfully replaced conventional CI and AC drainage systems. The Supreme S.W.R. drainage system is designed for quick and efficient removal of waste without leakage. It is highly resilient, tough and durable with high tensile and impact strength. Moreover it is free from scale formation, rusting, weathering and chemical action. It is virtually immune to attack by bacteria, fungi, micro-organisms and insects. Thus the system is a long term solution for building drainage with estimated life over 50 years. In addition to the various benefits, it is more cost effective than any conventional drainage system and approved by MCGM.

Product Specifications and Range

Pipes are available in 75 to 160mm and fittings are available in 40 to 160mm sizes. Pipes conforms to IS 13592:92 and fittings conforms to IS 14735:99 and are made as per international standards.

FEATURES AND BENEFITS

High quality standards and wide range - The system consists of pipes and a wide range of fittings with various traps, which makes the system complete in all respect and hence customer need not to depend on conventional system for any reason. Range of fittings are available in pasted type, rubber ring type and click ring type joints. The unique range of click ring type fittings are most suitable to be used in combination with Type B pipes for high-rise buildings.

Stronger and Longer Lasting - This system is highly resilient, tough and durable with high tensile strength and high impact strength. Moreover it is free from problems caused by scale formation, rusting, weathering and chemical action and hence lasts for lifetime.

Excellent chemical and corrosion resistance - Being non-metallic, this system is completely free from corrosion and offers very good resistance to wide range of chemicals.

UV resistance - which eliminates the adverse effect of sunlight and weather, hence can be safely used for outdoor installations.

Quick and convenient installation - Being extremely light in weight and provided with special rubber jointing technique, installation of this system becomes much easier.

Quick and efficient removal of waste without leakage - Mirror smooth and restriction free inner surface of pipes and fittings ensures superior flow characteristics, thus the system is free from problems of clogging and drain choke-up. System is completely leak-proof and designed to maintain high standards of hygiene.

Adequate and easy access for cleaning and clearing obstructions.

Least maintenance - Once installed Supreme S.W.R. drainage system needs minimal maintenance.

Cost Effective - Supreme S.W.R. drainage system is more cost effective than any conventional drainage system.

A comprehensive range of products are offered in 75,90,110 and 160 mm in rubber ring, click ring and pasting type. Various traps and special fittings makes the system complete in all respect. Pipes conforms to IS:13592:92 where as the fittings conforms to IS:14735:99 and are made as per international standards.

Pipes conform to IS 13592-1992

Nominal outside diameter (D) mm	Tolerance on outside diameter mm	Wall Thickness (t) in mm					
		Type-A		Type-B		Sufla (Non-standard)	
		Min.	Max.	Min.	Max.	Min.	Max.
75	+ 0.3	1.8	2.2	3.2	3.8	1.4	1.6
90	+ 0.4	1.9	2.3	3.2	3.8	-	-
110	+ 0.4	2.2	2.7	3.2	3.8	1.5	1.65
160	+ 0.5	3.2	3.8	4.0	4.6	2.7	3.2

S.W.R.

Hi-Tech, Low Noise, S.W.R. Drainage System

A Premium Drainage System for Premium Projects



THE SYSTEM

Supreme "Skyrise", Low Noise, S.W.R. drainage system is a premium product especially designed for hotels, hospitals, high-rise buildings, and premium projects where regular S.W.R. do not suffice the application requirement. Such buildings require a soil system which is strong enough to withstand site handling and other application requirements. Designed to meet strictest demands for strength and other mechanical properties, this thick walled, high density, hi-tech drainage system is additionally featured with low noise aspects. This makes it suitable for the projects where sound beyond certain decibel level is not desirable. Thus a combination of strength and Low noise aspects has made this product a much better solution for building drainage. Like our pioneering uPVC, S.W.R. drainage system introduced 25 years back which has now successfully replaced conventional CI and cement drainage products in the market, this all together new Hi-Tech soil system will set new trend for the new market segment where people are expecting to have such specialty product. It is the best plastic alternative to CI. As a pioneer in the field it is with great pride and joy we have been introducing this new product in the market to elevate present drainage segments.

Product specifications and range

Supreme Skyrise S.W.R. drainage system is made in the sizes 50, 75, 110, 160 and 200 mm. Wall thicknesses of pipes and fittings are designed to make the product strong, durable and soundproof. This system conforms and exceeds EN 1329 standard requirements.

FEATURES AND BENEFITS

Strong and durable – Every component of the system is designed to provide adequate strength to make it strong against various forces encountered during and after the installation.

Improved noise insulation - Design of the product with extra wall thickness and ribs on the external face of fittings together with special compounds having increased molecular weight makes the system low on sound and hence the sound level gets substantially reduced. This is an excellent system to absorb and decrease all noises derived from the drainage installation within the buildings, thus noise-free environment enhancing high living comfort is ensured.

Extensive range of pipes and fittings – Complete product range in push fit - rubber seal type joints are made available to cater to each and every installation requirement.

Smooth bore- Better flow – No clogging -Smooth and bright internal and external surfaces of "Skyrise" help to avoid sedimentations and lime deposition.

Easy and leak proof joints – Unique design of joints with click ring, double lip gasket system with reinforcing rings makes the joints absolutely water tight. Unlike normal sealing rings, sealing rings provided by "Skyrise" can't be easily removed which guarantee a perfect hydraulic seal and total safety during installation. Hence there is no scope of leakage under any circumstance.

Light weight compared to CI – Easy installation - Light weight and easy jointing technique makes the job very simple, easy and quick.

Unique design and elegant appearance - Unique and innovative design of the fittings with ribs gives greater compactness and strength beside elegance. Swept entry design of the tee's meet UPC requirements.

Chamfered pipe ends - As the pipes are supplied with chamfered ends, the joining and installation becomes easier.

Corrosion free – longer life beyond 50 year's - "Skyrise" being free from corrosion and having adequate strength can last for minimum 50 year's.

Excellent chemical resistance - "Skyrise" offers great resistance to a very wide range of chemical agents.

Good fire resistant properties - PVC is self extinguisher of fire. It is classified as B-S1-dO(B= Low speed of fire spread and heat emission, S1= Low quantity and speed of smoke emission, dO= No flaming drip's are produced).

Compatible with existing S.W.R. system

Cost effective - "Skyrise" offers cost advantage over CI and other similar noise level pipe systems

FIELDS OF APPLICATION

Skyrise is specially designed for high-rise buildings and premium construction projects like hospitals, luxurious hotels and apartments etc. where noise insulation is required. Skyrise is an ideal solution for all types of professional wastewater installations.

Dimensions of Skyrise Pipes

Size	Tolerance on outside diameter	Wall thickness	
		Minimum	Maximum
50	+ 0.3	3.00	3.20
75	+ 0.3	3.50	3.80
110	+ 0.4	3.80	4.20
160	+ 0.5	4.50	5.00
200	+ 0.6	4.60	5.20

Pipe thicknesses conforms and exceeds EN 1329. Pipe length is 3.0 m inclusive of socket length along with different lengths are made available.



THE SYSTEM

Supreme Nu-drain underground drainage system has been designed to function year after year without leakage or defects. Nu-drain is intended to carry soil and waste from building to roadside sewers or drains and from there to treatment plant or disposal point. This system is advantageous and offer multiple advantages over traditional drainage products for all sorts of drainage and sewerage application and installations. Nu-drain is highly recommended for buildings where hygiene is a prerequisite, such as hospitals, hotels etc. This can also be used for rainwater collection and disposal, including rainwater harvesting. Thus, Nu-drain is a complete solution for underground drainage and sewerage application.

Being 100% watertight, it is free from ingress and seepage of water and hence considered to be most hygienic. Unlike conventional drainage products, it is free from pollution of underground water, soil or ill effects on building foundations. In this fast age, this product emerged as blessing to housing and construction sector.

Product specifications

Solid wall uPVC Nu-drain pipes conforms to IS: 15328:2003, Hi-tech Eco-drain structured wall pipes are made as per EN-13476 and meet the requirements of IS: 16098 standard. Plastic moulded inspection chambers are made as per BS and EN standards.

FEATURES AND BENEFITS

Great Flexibility - Due to availability of readymade inspection chambers, manhole, long lengths of lighter weight pipes and different components, installation of this system is very convenient and fast.

Perfect Hydraulic Properties - Mirror smooth inside surface of the pipes and streamline design of the chambers and manhole greatly reduce the possibility of blockage and maximize flow characteristics. As a result, carrying capacity of these pipes can be increased by 40% over concrete pipes.

Great Strength - Products are sufficiently durable to meet site-loading requirements.

Watertight System - Pipe, riser or shaft connection with the chamber base is absolutely watertight and unique design of pipe joints with click ring and sealing ring makes the system completely leak proof.

Hygienic and Safe - Trouble free performance of the joints without blockage and leakage ensures high standards of hygiene.

Minimum Excavation Cost - Because of simple jointing technique, trench width can be kept minimum and smoother bore of the pipe allow high flow rates at relatively flatter gradients.

Different Flow Profile Designs - Inspection chambers and manholes are available in different flow profiles / configurations of inlet(s) and outlet in different sizes to suit the site requirements. Unwanted inlets if any can be closed with the help of blanking plugs.

Minimal Maintenance - Optimum functional qualities and good hydraulic properties play an important part in reducing the need for jetting and other forms of maintenance, and therefore operational costs are considerably reduced.

Longer Life and Overall Economy - It is free from problems like corrosion and susceptibility to chemical reactions and strong enough to carry soil and traffic loads. Nu-drain is sufficiently durable, and offers long and trouble free service life.

COMPONENTS OF NU - DRAIN UDS SYSTEM

Inspection Chambers - Following different sizes of Ultra inspection chambers and manhole along with cover solution are available in the range.

1. Ultra 250 with and without trap provision with 110 mm inlet (s) and outlet. Size of the trap is 75 mm.
2. Ultra 315 mm with 110 mm inlet (s) and outlet is available in seven different flow profiles/configurations.
3. Ultra 355 mm with 160 mm inlet (s) / outlet in 5 different configurations. Ultra 355 mm chamber in 3 different configurations with 160/110 mm inlet (s) / outlet.
4. Ultra 450 mm multiple inlet (s) with two 110 mm inlets at 45° and two 160 mm inlets at 90° with main inlet / outlet in 160 mm.

Ultra 450 mm chamber in different flow configurations with 200 mm main inlet (s) / outlet and 160 and 200 mm branch inlet (s).
5. Ultra 600 mm with 200, 250 mm inlet (s) and outlet in six different configurations.
6. Eccentric reducers in different sizes are available to convert inlet (s) outlet to required smaller size.

... Most comprehensive range with wide spectrum of fittings



THE SYSTEM

Supreme offers an exhaustive range of uPVC pressure pipes and fittings. Pressure pipes are manufactured as per IS 4985: 2000 and are available in 20 to 450 mm sizes in different pressure class. Pipes are provided both in solvent cement type and rubber seal type joints. Varieties of moulded fittings and wide range of handmade fittings are also available. Moulded fittings are manufactured as per IS:7834 and fabricated fittings are manufactured as per IS:10124 as well as company standards. These pipes and fittings are used for variety of applications like agriculture, irrigation, water supply, industrial process lines, swimming pools and fire fighting mains etc. These pipes are superior to CI, DI or R.C.C. pipes and offers multiple advantages like light weight, easy and fast installation, excellent corrosion and chemical resistance, high flow rates, long life and economy these pipe are approved by MJP.

FEATURES AND BENEFITS

Odorless and hygienic - These pipes are most ideal for carrying drinking water as they do not subject to contamination.

High corrosion resistance - Being immune to chemical, electrolytic and galvanic action these pipes are free from corrosion.

High chemical resistance - Pipes offer excellent resistance to acids, oxidizing agents, alkalis, oils and domestic effluents.

Smooth bore - Pipes have mirror smooth inside surface and hence better flow characteristics in comparison to AC, CI and GI pipes.

Self extinguishing quality - This eliminates need for fire resistant coatings.

Maintenance free - Corrosion resistance property of the uPVC pipes eliminates the need for painting or coating.

Longer lasting - As these pipes are free from weaknesses caused by scale formation, rusting, weathering and chemical action they lasts for a life time.

Economical - Apart from superiority over conventional pipes, Supreme uPVC pipes are light in weight and hence offer total economy in handling, transportation and installation.

Dimensions of uPVC pressure pipes as per : IS 4985:2000

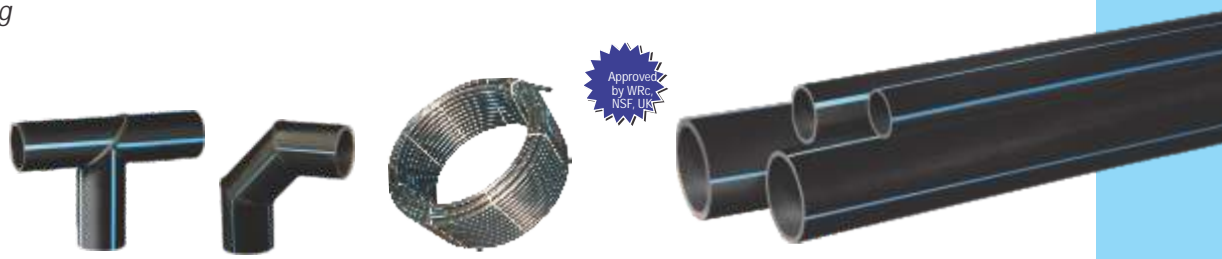
Nominal Outside Diameter (D)	Tolerance on Outside Diameter	Wall Thickness (t) mm													
		Class 1(PN) 2.5 kgf/cm ²		Class 2(PN) 4 kgf/cm ²		Class 3(PN) 6 kgf/cm ²		Class 4(PN) 8 kgf/cm ²		Class 5(PN) 10 kgf/cm ²		Class 6(PN) 12.5 kgf/cm ²		Plumbing Pipes	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
20	+ 0.3	-	-	-	-	-	-	-	-	1.1	1.5	1.4	1.8	2.8	3.3
25	+ 0.3	-	-	-	-	-	-	1.2	1.6	1.4	1.8	1.7	2.1	2.9	3.4
32	+ 0.3	-	-	-	-	-	-	1.5	1.9	1.8	2.2	2.2	2.7	3.4	3.9
40	+ 0.3	-	-	-	-	1.4	1.8	1.8	2.2	2.2	2.7	2.8	3.3	3.6	4.2
50	+ 0.3	-	-	-	-	1.7	2.1	2.3	2.8	2.8	3.3	3.4	4.0	3.7	4.3
63	+ 0.3	-	-	1.5	1.9	2.2	2.7	2.8	3.3	3.5	4.1	4.3	5.0		
75	+ 0.3	-	-	1.8	2.2	2.6	3.1	3.4	4.0	4.2	4.9	5.1	5.9		
90	+ 0.3	1.3	1.7	2.1	2.6	3.1	3.7	4.0	4.6	5.0	5.7	6.1	7.1		
110	+ 0.4	1.6	2.0	2.5	3.0	3.7	4.3	4.9	5.6	6.1	7.1	7.5	8.7		
125	+ 0.4	-	-	2.9	3.4	4.3	5.0	-	-	-	-	-	-		
140	+ 0.5	2.0	2.4	3.2	3.8	4.8	5.5	6.3	7.3	7.7	8.9	9.5	11.0		
160	+ 0.5	2.3	2.8	3.7	4.3	5.4	6.2	7.2	8.3	8.8	10.2	10.9	12.6		
180	+ 0.6	2.6	3.1	4.2	4.9	6.1	7.1	8.0	9.2	9.9	11.4	12.2	14.1		
200	+ 0.6	2.9	3.4	4.6	5.3	6.8	7.9	8.9	10.3	11.0	12.7	13.6	15.7		
225	+ 0.7	3.3	3.9	5.2	6.0	7.6	8.8	10.0	11.5	12.4	14.3	15.3	17.6		
250	+ 0.8	3.6	4.2	5.7	6.5	8.5	9.8	11.2	12.9	13.8	15.9	17.0	19.6		
280	+ 0.9	4.1	4.8	6.4	7.4	9.5	11.0	12.5	14.4	15.4	17.8	-	-		
315	+ 1.0	4.6	5.3	7.2	8.3	10.7	12.4	14.0	16.1	17.3	19.9	-	-		
355	+ 1.1	5.1	5.9	8.1	9.4	12.0	13.8	15.8	18.2	-	-	-	-		
400	+ 1.2	5.8	6.7	9.1	10.5	13.5	15.6	-	-	-	-	-	-		
450	+ 1.4	6.5	7.5	10.3	11.9	15.2	17.5	-	-	-	-	-	-		

Note : 1) Pipes are offered in Light Grey (LG) and/or Dark Grey (DG) colour in standard lengths of 6 meter. Pipes are offered either plain or socketed, based on diameter and class of pipe. 2) Ringtight pipes with integral rubber ring socket (Elastomeric joint) are available in 63mm to 315mm in 4, 6 and 10 kgf/cm² pressure class. 3) Non standard wall thickness, lengths and colour can also be offered, if desired. 4) Prefix "PN" indicates Nominal Pressure i.e. working pressure.

Polyethylene Piping System

... The next generation piping

Supreme[®]
People who know plastics best



THE SYSTEM

Supreme polyethylene pipes are a safe, long lasting and cost effective solution for potable water supply, irrigation and bore well application. Supreme HDPE pipes are manufactured from virgin raw material. The pipes and fitting are available in complete range from 20 to 450mm sizes. The pipes are available in PN 2.5 to PN 16 pressure class in PE63, PE80 and PE100 grades. Supreme PE pipes are manufactured as per to IS:4984 and ISO:4427. Supreme PE pipes are approved by WRC-NSF, UK, thus endorse its suitability for potable water.

FEATURES AND BENEFITS

- High reliability and proven service performance
- Resistance to low temperature
- High impact and abrasion resistance
- Excellent flow characteristics
- Excellent chemical resistance
- Excellent weld-ability
- Excellent UV resistance
- Wide variety of installation methods
- Easy, fast and economical installation
- Long service life

Fittings

All the compatible fittings are made available in handmade form to cater system requirements.

Fields of application

Polyethylene is an exciting material used for the manufacture of pipes for many and varied applications as enlisted in table.

APPLICATION	GRADE
Potable water mains, house connections	PE63,80,100
Rural and agricultural pipes	PE63,80
Column pipes for submersible pumps in coil form	PE63,80
Sprinkler and drip irrigation	PE63 and above grade
Sewerage/Subsoil drainage	PE80,100
Coal handling in mines	PE80,100
Industrial applications	PE63,80 and 100
ID Pipes for Submersible Pump	PE63, 80

Dimensions and pressure rating chart for HDPE pipes (Pe80) as per IS:4984

OD	PN 2.5		PN 4		PN 6		PN 8		PN 10		PN 12.5		PN 16	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
20	-	-	-	-	-	-	-	-	-	-	2.3	2.8	2.8	3.3
25	-	-	-	-	-	-	-	-	2.3	2.8	2.8	3.3	3.5	4.1
32	-	-	-	-	-	-	2.4	2.9	3.0	3.5	3.6	4.2	4.5	5.2
40	-	-	-	-	2.3	2.8	3.0	3.5	3.7	4.3	4.5	5.2	5.6	6.4
50	-	-	2.3	2.8	2.9	3.4	3.8	4.4	4.6	5.3	5.6	6.4	6.9	7.8
63	-	-	2.5	3.0	3.6	4.2	4.7	5.4	5.8	6.6	7.0	7.9	8.9	9.8
75	-	-	2.9	3.4	4.3	5.0	5.6	6.4	6.9	7.8	8.4	9.5	10.4	11.7
90	2.3	2.8	3.5	4.1	5.1	5.9	6.7	7.6	8.2	9.3	10.0	11.2	12.5	14.0
110	2.7	3.2	4.3	5.0	6.3	7.2	8.2	9.0	10.0	11.2	12.3	13.8	15.2	17.0
125	3.1	3.7	4.9	5.6	7.1	8.1	9.3	10.5	11.4	12.8	13.9	15.5	17.3	19.3
140	3.5	4.1	5.4	6.2	8.0	9.0	10.4	11.7	12.8	14.3	15.6	17.4	19.4	21.6
160	4.0	4.6	6.2	7.1	9.1	10.3	11.9	13.3	14.6	16.3	17.8	19.8	22.1	24.6
180	4.4	5.1	7.0	7.9	10.2	11.5	13.4	15.0	16.4	18.3	20.0	22.2	24.9	27.6
200	4.9	5.6	7.7	8.7	11.4	12.8	14.9	16.6	18.2	20.3	22.3	24.8	27.6	30.6
225	5.5	6.3	8.7	9.8	12.8	14.3	16.7	18.6	20.5	22.8	25.0	27.7	31.1	34.5
250	6.1	7.0	9.7	10.9	14.2	15.9	18.6	20.7	22.8	25.3	27.8	30.8	34.5	38.2
280	6.9	7.8	10.8	12.1	15.9	17.7	20.8	23.1	25.5	28.3	31.2	34.6	38.7	42.5
315	7.7	8.7	12.2	13.7	17.9	19.9	23.4	26.0	28.7	31.8	35.0	38.7	43.5	48.1
355	8.7	9.8	13.7	15.3	20.1	22.4	26.3	29.2	32.3	35.8	39.5	43.7	49.0	54.1
400	9.8	11.5	15.4	18.0	22.7	26.4	29.7	34.4	36.4	42.1	44.5	51.4	55.2	63.7
450	11.0	12.9	17.4	20.3	25.5	29.6	33.4	38.7	41.0	47.4	50.0	27.7	-	-



THE SYSTEM

Various problems associated with conventional metal pipes used for casing application are totally eliminated in Supreme casing pipes made from specially developed PVC compound. Supreme casing pipes offer superior performance at a lower cost and has become the prime choice of the customers.

Supreme offers varieties of pipes to cater every need of bore-well sector which includes Casing pipes as per IS 12818, Ribbed screen casing pipes for tube wells, SDR casing pipe series for shallow depths as per company standard, Plain pipes as well as Screen (slotted) pipes are available in every category of casing pipes. Slotted pipes can also be used for rainwater harvesting.

Users - Very encouraging results have made the Supreme uPVC casing pipes well accepted by civil engineers, drilling contractors and government/semi-government departments. They are ideal for domestic wells, irrigation wells, industrial wells, public wells and mining wells.

FEATURES AND BENEFITS

Excellent corrosion resistance - Unlike steel pipes, uPVC is totally immune to corrosion and offer good resistance to aggressive elements in the soil and normal chemical action, which could cause encrustation of well screens.

Light in weight - These pipes are light in weight and hence transportation and installation becomes much easier. This is a major advantage particularly in remote rural areas where road communications are not satisfactory and well construction is a one-time exercise.

Quick and convenient installation - These pipes are equipped with good quality threaded joint, thus Supreme casing pipes and screens are easily assembled and installed where drilling is done by hand with light weight drilling rig or even with large capacity drilling machines.

Excellent stiffness - These pipes have excellent stiffness and meet all the mechanical properties as per the IS 12818 specifications. These pipes have excellent hydrostatic collapse pressure i.e. capable of withstanding the external hydraulic pressure that would be subjected during well construction.

Non-toxic - The material of the pipe is non-toxic and hence does not impart any taste, odour or colour. It does not release any harmful substances in water from well, which could pose health problem. It is free from bacteria and hence absolutely safe for carrying drinking water.

Non-conductive - uPVC is non-conductor of electricity, which eliminates any electro-chemical reaction with ground water, which could cause encrustation of screens.

Longer lasting - Being free from rusting, weathering and chemical reactions and due to excellent mechanical properties, Supreme casing pipes lasts for lifetime.

Economical - When all the advantages listed above are taken into consideration, it would be seen that in most cases Supreme uPVC casing pipes and screens provide the best cost benefit ratio when compared to other materials or even alternative uPVC casing pipes available in the market.

a) Shallow Well - C. S. (Suitable upto 80 meters depth)						
Sizes		Outer Diameter (D) in mm		Wall Thickness (t) in mm		Length L (meter)
mm.	inch	Min.	Max.	Min.	Max.	
150	6	165.0	165.4	5.7	6.5	3
175	7	200.0	200.5	7.0	7.8	3
200	8	225.0	225.5	7.6	8.8	3
250	10	280.0	280.5	9.6	11.0	3
b) Medium Well - C.M. (Suitable upto 250 meters depth)						
40	1½	48.0	48.2	3.5	4.0	3
50	2	60.0	60.2	4.0	4.6	3
80	3	88.0	88.3	4.0	4.6	3
100	4	113.0	113.3	5.0	5.7	3
125	5	140.0	140.4	6.5	7.3	3
150	6	165.0	165.4	7.5	8.5	3
175	7	200.0	200.5	8.8	9.8	3
200	8	225.0	225.5	10.0	11.2	3
250	10	280.0	280.5	12.5	14.0	3

Column Pipes for Submersible Pumps

... Best alternative to GI Pipes



THE SYSTEM

These pipes have been specially designed and manufactured under stringent quality standards. They are tested to withstand system load comprising of pump, water and pipe weight with adequate factor of safety. Due to unique design of square threads, they can withstand considerable shock and jerk load during operation.

Supreme column pipes for submersible pumps offer many advantages and has emerged as the best option for conventional metal pipes. These pipes are available in 25 to 100 mm (1" to 4") in different load class. Pipes are available in 3 meter length and are provided with rubber sealing ring on square threaded male end. These pipes are available in Light, Medium duty, Standard duty, Heavy duty and Premium duty for varying needs based on installation depths up to 350 meters.

FEATURES AND BENEFITS

Light weight - PVC pipes are light in weight hence transportation and installation becomes much easier.

Hygienic - As uPVC is immune to galvanic and electrolytic

erosion, both pipe and water remains unaffected.

High flow rate - Mirror smooth inside surface of pipe and corrosion resistance property prevents scale formation which ensures high flow rate resulting in substantial power saving. They can be installed in all types of acidic or alkaline medium which badly affect metal pipes.

Longer life - Supreme pipes are manufactured with latest technology under stringent quality control. Specially imported additives are used for higher strength and long troublefree service life.

High tensile load capacity - Specially designed square threads (male and female) are manufactured on SPM's to provide smooth fitment/refitment. The design of threads along with the pipe material makes it strong enough to take high tensile loads.

Leak proof joints - The sealing rings are made from best quality rubber which ensures long service life, absorption of pump vibration and water tightness.

Overall economy - In addition to the above benefits Supreme column pipes for submersible pumps are much economical to GI pipes.

Size		Outer diameter(D) in mm		Wall thickness (t) in mm		Length (L) in meter	End type	Recommended installation depth in meter
mm	inch	Min	Max	Min	Max			
Light Duty (Blue coloured marking)								
25	1"	33.0	33.3	1.8	2.1	3	Male/Female or with Coupler	130
32	1¼"	42.0	42.3	2.4	2.7	3	Male/Female or with Coupler	150
40	1½"	48.0	48.3	2.5	2.9	3	Male/Female or with Coupler	130
50	2"	60.0	60.3	2.6	3.0	3	Coupler	110
Medium Duty (Orange coloured marking)								
25	1"	33.0	33.3	2.0	2.3	3	Male/Female or with Coupler	150
32	1¼"	42.0	42.3	2.8	3.2	3	Male/Female or with Coupler	200
40	1½"	48.0	48.3	2.8	3.2	3	Male/Female or with Coupler	160
50	2"	60.0	60.3	2.8	3.2	3	Coupler	130
65	2½"	75.0	75.3	2.9	3.3	3	Coupler	100
80	3"	88.0	88.3	3.3	3.8	3	Coupler	110
100	4"	113.0	113.4	3.8	4.3	3	Coupler	100
Standard Duty (Red coloured marking)								
25	1"	33.0	33.3	4.2	4.7	3	Male/Female or with Coupler	300
32	1¼"	42.0	42.3	4.1	4.6	3	Male/Female or with Coupler	250
40	1½"	48.0	48.3	4.1	4.6	3	Male/Female or with Coupler	250
50	2"	60.0	60.3	4.1	4.6	3	Coupler	200
65	2½"	75.0	75.3	4.2	4.8	3	Coupler	160
80	3"	88.0	88.3	5.0	5.6	3	Coupler	170
100	4"	113.0	113.4	5.7	6.4	3	Coupler	150
Heavy Duty (Green coloured marking)								
32	1¼"	42.0	42.3	5.2	5.8	3	Coupler	350
40	1½"	48.0	48.3	5.9	6.5	3	Coupler	350
50	2"	60.0	60.3	5.4	6.0	3	Coupler	270
65	2½"	75.0	75.3	6.4	7.1	3	Coupler	250
80	3"	88.0	88.3	7.3	8.0	3	Coupler	250
100	4"	113.0	113.4	9.4	10.2	3	Coupler	250
Premium Duty (Violet coloured marking)								
50	2"	60.0	60.3	6.5	7.2	3	Coupler	350
80	3"	88.0	88.3	9.8	10.7	3	Coupler	350

Sprinkler Irrigation System



THE SYSTEM

Supreme offers HDPE coupled pipes, fittings and accessories, for sprinkler irrigation. This is used for spraying water through nozzles (sprinklers) to get maximum water use efficiency. This system consists of pipes and fittings along with different accessories which are designed and developed by experts in the field to provide the best quality.

Supreme sprinkler irrigation system offered under the brand name "Varsha" is useful for all kinds of soils and all types of crops. It is suitable for land with undulating terrain. By applying water through the sprinkler system, water can be used effectively and precious water can be saved, soil erosion can be prevented or reduced.

Application

Suitable for almost all field crops like wheat, gram, pulses as well as vegetables, cotton, soya bean, tea, coffee and other fodder crops. Suitable for Residential, Industrial, Hotel, Resorts, Public and Government Enterprises, Golf Links and Race course areas.

Product Range

Supreme sprinkler pipes and fittings are manufactured as per

IS:14151- Part 1 and 2, and we have licence to produce 40 to 140mm in Class 1 (2.5Kg/cm²) and Class 2 (3.2 Kg/cm²) and 90 mm size in Class 4 (6.0Kg/cm²).

Fittings and accessories

Elbow, tee, end cap, bottom (base pipe), service saddle, etc. are available along with coupler and Sprinklers (nozzles), riser pipes, and metal clamps as per the requirements which makes the system complete in all respect.

FEATURES AND BENEFITS

- Portable and light weight, easy to handle.
- Chemically inert and suitable for using liquid fertilizers and pesticides.
- Easy handling and quick installation by using coupled joint for both pipes as well as fittings.
- Corrosion resistant.
- Tough and flexible.
- Extensive saving in labor and transportation cost.
- Protection from ultra violet sun rays / UV resistant. Strong, durable and long lasting.
- Cost effective.

Dimensions of pipes

Nominal Size	Outside diameter (D) in mm		Wall thickness (t) in mm			
			Class 1		Class 2	
			Min	Max	Min	Max
63	63.0	63.6	---	---	2.00	2.40
75	75.0	75.7	2.00	2.40	2.50	2.90
90	90.0	90.8	2.20	2.60	2.90	3.40
110	110.0	111.0	2.70	3.20	3.40	3.90
125	125.0	126.2	3.10	3.60	3.80	4.50
140	140.0	141.3	3.50	4.10	4.30	5.00

• Any specifications can change without prior notice. • All information contained in this literature is given in good faith and believed to be accurate and reliable. But because of many factors which may be outside our knowledge and control and affect the use of product, no warranty is given or is to be implied with respect to such information, nor do we offer any warranty of immunity against patent infringement. No responsibility can be accepted for any error, omissions or incorrect assumptions.

The Supreme Industries Ltd. (Plastic Piping Division)

1161/1162, Solitaire Corporate Park, Building No. 11,167,
Guru Hargovindji Marg, Chakala, Andheri Ghatkopar Link Road,
Andheri (East) Mumbai - 400 093. India. Tel: 91-22-6771 0000, 4043 0000 Fax:
6771 0099 / 4043 0099.
E-mail: pvc-pipes@supreme.co.in Website : www.supreme.co.in

Works :

- D-101/102, MIDC, Jalgaon - 425 003.
- Unit No.3, Gat No.47-48, at post Gadegaon, Tal. Jamner ,Dist., Jalgaon- 425 114

Export Division : 91-22-6771 0126 / 4043 0126 Fax : 6771 0130

Overseas Office : Sharjah, U.A.E. Tel # + 971 6 557 4484; Fax # + 971 6 557 4485

Branch Offices ☎ Tel.

Ahmedabad : 079-2768 1361
Bangalore : 080-30913716
Chennai : 044-43856500
Cochin : 0484- 2385346
Hyderabad : 040-23261150
Indore : 0731-2432684
Jaipur : 09314440151
Jalgaon Gadegaon : 0257 - 3050541,42
Kanpur : 0512- 2332276
Kolkata : 033-30070123
New Delhi : 011 - 46590075

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