



Spreading Happiness.
Enhancing Agriculture.



SRI SAPTHAGIRI POLYMERS
(An ISO 9001:2008 Certified Company)
Manufacturer & Exporter: Maruthi PVC Pipes

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LIKE WATER. LIKE DURABILITY.



Enter into a world of possibilities!

Welcome to the world of PVC pipes. We are MARUTHI - Synonymous with flawless quality and reliable flow of water. Since our inception, we have been able to carve a niche in the manufacture of PVC pipes with our indelible mark of distinction in the respective field. With adherence to global standards, we are committed to reinstate the reliability of piping solutions with the manufacture of unplasticized Poly Vinyl Chloride (PVC) pipes. We have always been in the pursuit of our relentless efforts to confirm the utmost customer satisfaction.

Pursuing innovation with an edge

Factory Exterior View



Awards for our excellence



Awards for our excellence

Recognitions are the impetus
that keeps our momentum going...



K. Balaji, BBA., PGDPMIR
Managing Director

MD’S Note

The mighty power of ‘M’ drives our passion towards excellence. At MARUTHI, we pursue the concept of ‘M’ to strengthen our efforts and to widen our horizons. Man, Machine & Material becomes the perfect formulation of success for MARUTHI PIPES. With dedicated workforce, advanced technology and flawless material, MARUTHI PIPES has carved a niche in the industry and expect to continue the momentum for decades.

We are constantly in the process of product development that guarantees reliability with assured quality and innovation. As part of our relentless efforts, we have introduced ‘Energy Saving Concept’ based Column Pipes in order to save energy and bring savings to customers without worries. We are evolving.

Mission

To embrace the latest technology with the strength of our committed workforce to manufacture innovative, cost-effective piping solutions, adhering to global standards and environmental sustainability.

Vision

To maintain Leadership by being the most diversified company in India by leaving a strong presence wherever our products mark its acceptance with quality and innovation.



HDPE & LDPE Pipes



Advantages

- Zero-leak pipes
- Corrosion & chemical resistant
- Lower life cycle cost and maintenance-free
- Perfect for trenchless installations
- Low cost
- Impact resistant from -40°C to 90° C
- Moisture resistance
- Readily processed by all the thermoplastic meth



MARUTHI PIPES diversifies the product range with the manufacture of cost-effective HDPE & LDPE Pipes for piping solutions in Metropolitan, Municipal, Industrial, Underwater, Cable duct and Agricultural applications. These high tensile pipes are effectively used for the distribution of water on a magnum scale. It is also used to dispose sewage and chemical wastes, compressed gas, oil etc. HDPE pipes take an edge on its maintenance-free factor when compared to other kinds of pipes.

Electrical Conduit Pipes



MARUTHI pipes brings a series of Electrical Conduit Pipes at competitive prices to meet customer requirements. Our electrical conduit pipes are applied in numerous industries with the trust bestowed on our range of products.



Advantages

- Durable & effective for years of maintenance-free performance in underground
- Encased & exposed application in accordance with the National Electrical code
- Chemical-resistant, non-corrosive and resistant to cement, lime, soils and salts
- Assurance of good insulation, no power loss or conductor heating
- Fire-resistant qualities
- Tough, durable and easy to install on the site
- Lower cost of installation & lower transportation cost





uPVC ASTM Plumbing Pipes



MARUTHI manufactures yet another range of uPVC Plumbing pipes adhering to ASTM standards. These pipes are endowed with a host of benefits, including durability, corrosive resistance, affordability, maintenance-free, fire retardant and easy to install. These pipes are available in 6 metres per length in ivory white colour.

Specifications

- Made from uPVC ASTM plumbing pipes are available in Ivory White colour
- Pipe made as per ASTM-D-1785
- Sizes vary from 21 mm to 115 mm & in schedule 40 & 80
- Properties remain unchanged up to temperature 60°C in continuous and 90°C for short time
- Tested for potable and drinking water supply
- Remains unaffected to rust, corrosion and chemical reaction (up to certain extent)

Advantages

- Potable water service
- Industrial/Chemical
- Power station screening pipeline & power station chlorination plant
- Sewage main-pumped & gravity fed
- Drainage installation - Domestic & industrial and many other



Rigid PVC Pipes



Flowing system gets better and stronger with the use of Rigid PVC pipes. It has been conveniently used for drip/sprinkler irrigation systems, lift irrigation systems, surface irrigation systems, subsoil drainage system and potable water supply systems.

Features and Specifications

- Manufactured from high quality PVC compound
- Excellent corrosion and chemical resistance to most acidic and alkaline solutions
- Lightweight & Easy to handle and transport
- Excellent flow characteristics
- Smooth inner wall minimizes frictional losses and scaling due to precipitation
- Available as per IS-4985 standard
- Available in sizes from 20 mm (1/2") to 250 mm (10") as per above standards
- Commonly supplied in 6 m length with plain ends or socket at one end for solvent cement weld (Any other pipe length can be supplied on request)

Advantages

- Self-fit sockets are formed with high precision on specially developed sophisticated machines
- The number of joints is reduced by 50% resulting in substantial saving in labour costs and hence the cost spent on solvent cement is reduced by 50%
- Cost less than conventional plain ended pipes with loose couplers
- Self-fit pipes are supplied in a standard length of 6 meters with exclusive socket portion



Persistent.
Innovative.
Reliable.

MARUTHI PVC Pipes has grown to become a leading manufacturer and supplier of PVC pipes with the expertise and experience inherited through the parent company, Sri Saphthagiri Polymers. MARUTHI has always been focused on providing innovative, cost-effective products that conform to global standards with the harmonious blend of prowess, technology and innovation.

At MARUTHI, we are in the constant and continuous process of meeting the growing demands and hence our products are manufactured under the guidance and supervision of Plastic Engineers under regular intervals to innovate and increase the sales momentum through strategic plans, backed by an efficient workforce.



Why Maruthi



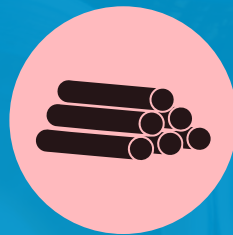
Strong Tradition

With 2 decades of tradition and steered by a management of seasoned professionals in the industry, MARUTHI PVC Pipes continues its remarkable journey of excellence.



Impeccable Quality

Keeping a strong eye on attention to details and quality assurance, we manufacture top-notch products for the niche markets in India and abroad.



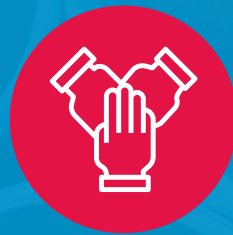
Product Diversity

From uPVC Column Pipes and Borewell Casing Pipes, we bring a wide range of products to meet customer requirements.



Flawless Material

MARUTHI PIPES focus on the procurement of materials that bound to reinstate the promise of world-class products to ensure durability and reliability.



Dedicated Workforce

MARUTHI PVC Pipes takes pride in having a team of dedicated professionals to elevate the brand equity with their impeccable service.



Innovative R & D Labs

We are bound to deliver innovative products and to enhance the quality of products; we rely on our expert R & D professionals to embrace innovation in the product range.



Global Presence

Widening the horizons of business prospects and to assure global quality, we leave an indelible presence in MENA (Middle East and North Africa) and the Far East.

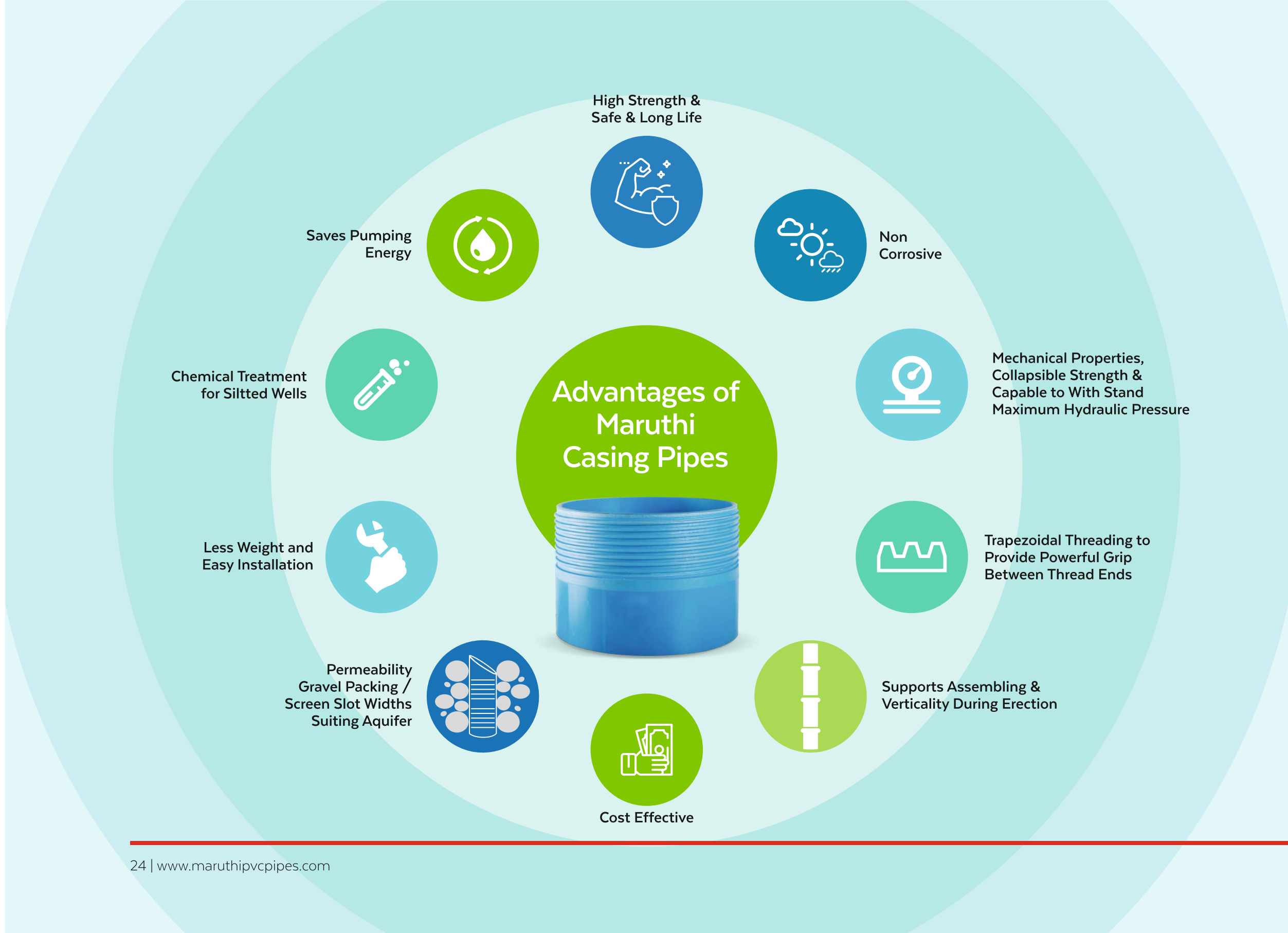


Social Commitment

We are socially responsible in maintaining a sustainable eco-system with our products that are lead-free and that leave less carbon-print.

Conserving nature with less impact on sustainability.





Expanding the horizons
of business across the globe



Weighing & Batching and High Speed Mixers

At Maruthi, we have taken a step further to assure the quality of our products. Our Weighing and Mixers plays a key role in quality assurance as bonding and output depends on these base items. The unique advantage of technical perfection in compounding enables us to ensure the uniform distribution of chemical additives and modifiers to the PVC resin, thereby resulting in the longer durability of the product while in use and also to withstand application related challenges.

Weighing & Batching Hot & Cold Mixer



Screen Open Area Dia. 50mm - 600mm (DIN 4925 / IS 12818)

Nominal Diameter mm	inch	Number of slots Diameter mm	±a ±5%	Slot Width in mm							
				0.2	0.3	0.5	0.75	1	1.5	2	3
				Percentage of Open Area							
50	2	3	108	3.7	5.2	6.0	9.1	9.4	9.7	12.1	-
80	3	3	168	3.7	5.2	6.0	9.1	9.4	9.7	12.1	-
100	4	5	216	3.7	5.2	6.0	9.1	9.4	9.7	12.1	14.0
115	4 ½	5	240	3.7	5.2	6.0	9.1	9.4	9.7	12.1	14.0
125	5	5	240	-	4.7	5.6	8.2	8.5	8.8	11.0	13.5
150	6	5	285	-	-	5.6	8.2	8.5	8.8	11.0	13.5
175	7	6	340	-	-	5.6	8.3	8.5	8.8	11.0	13.5
200	8	6	390	-	-	-	8.3	8.5	8.8	11.0	13.5
250	10	6	450	-	-	-	7.6	7.9	8.1	10.2	12.5
300	12	6	530	-	-	-	7.6	7.9	8.1	10.2	12.5
350	14	8	640	-	-	-	-	7.9	8.1	10.2	12.5
400	16	8	720	-	-	-	-	7.9	8.1	10.2	12.5
500	20	10	880	-	-	-	-	7.9	8.1	10.2	12.5
600	24	10	1030	-	-	-	-	7.9	8.1	10.2	12.5
Slot Spacing (mm)				4.0	4.0	5.5	5.5	6.8	9.5	9.5	11.0

* Summation of slots given is for medium thickness screens. For heavy thickness screens, the summation of slots will be marginally less. The percentage of open area remains the same for both thicknesses.

Screen Permeability Dia. 50mm - 600mm (DIN 4925 / IS 12818)

Nominal Diameter mm	inch	Slot Width in mm							
		0.2	0.3	0.5	0.75	1	1.5	2	3
		Percentage per Meter of Screen in LPS avt V=3cm / sec.							
50	2	0.18	0.25	0.29	0.44	0.45	0.46	0.58	0.67
80	3	0.27	0.39	0.45	0.68	0.70	0.75	0.90	1.04
100	4	0.35	0.50	0.57	0.87	0.90	0.93	1.16	1.34
115	4 ½	0.40	0.56	0.64	0.97	1.01	1.04	1.30	1.50
125	5	-	0.56	0.66	0.97	1.00	1.04	1.30	1.59
150	6	-	-	0.78	1.15	1.19	1.23	1.54	1.89
175	7	-	-	0.93	1.38	1.41	1.46	1.82	2.24
200	8	-	-	-	1.59	1.62	1.68	2.10	2.58
250	10	-	-	-	1.81	1.88	1.93	2.42	2.97
300	12	-	-	-	2.13	2.22	2.27	2.86	3.15
350	14	-	-	-	-	2.69	2.76	3.47	4.26
400	16	-	-	-	-	3.03	3.11	3.19	4.79
500	20	-	-	-	-	3.89	3.78	4.77	5.84
600	24	-	-	-	-	4.31	4.42	5.57	6.82

Extrusion Lines

Processes to be followed while erection

- The Borewell should be cleaned properly after the completion of drilling of the borewell.
- The drilled borewell to be re-checked for its correctness in the execution. It has to be in straight vertical line.
- Pipes chosen for erection needed to be physically checked for its quality and the pre-planning of required plain and slotted pipes are to be finalized.
- Horizontal screen pipes are the best choice which is to be purchased from the company only for its perfection.
- Lining/Arrangement of the pipes are required as per the plan of erection that helps to avoid confusion during erection.
- The Pipes getting erected are to be centred before lowering it to the bore-well.
- Keep the end cap connected to the Male thread of the first pipe kept for lowering to avoid sand and then start lowering pipes as planned one after the other and complete the erection.
- Gravel Packing between the reamed hole and pipe to be properly filled with required sizes of gravels and is to be monitored properly.



Avoid buying low cost pipes that does not guarantee reliable quality.

- Always ensure the drilled hole is 2X of the casing pipe's OD .
- Allow at least 35 mm gap between the split clamp and socket bottom to ensure the easy threading of Male and FPT Female threads.
- Always lower the pipes as planned earlier. This will help in generating better water table and pumping required water to the surface.

Cautions



UNPLASTICIZED POLYVINYL CHLORIDE (PVC-U) SCREEN & CASING PIPES FOR BORE/TUBEWELLS

MARUTHI ISI CASING PIPES WALLTHICKNESS

(All dimensions in millimeters)

Nominal Size (NB)	Nominal Outside Diameter	CS (SHALLOW WELL CASING PIPE)	CM (MEDIUM WELL CASING PIPE)	CD (DEEP WELL CASING PIPE)	PMS (PLAIN MEDIUM WELL SCREEN PIPE)
		MIN - MAX	MIN - MAX	MIN - MAX	MIN - MAX
35	42	-	3.5 - 4.0	-	-
40	48	-	3.5 - 4.0	-	-
50	60	-	4.0 - 4.6	-	-
80	88	-	4.0 - 4.6	-	-
100	113	-	5.0 - 5.7	7.0 - 7.9	-
115	125	-	5.0 - 5.7	7.5 - 8.5	-
125	140	-	6.5 - 7.3	8.0 - 9.0	-
150	165	5.7 - 6.5	7.5 - 8.5	9.5 - 10.7	-
175	200	7.0 - 7.8	8.8 - 9.8	11.8 - 13.6	-
200	225	7.6 - 8.8	10.0 - 11.2	13.0 - 14.8	10.0 - 11.2
250	280	9.6 - 11.0	12.5 - 14.0	16.0 - 17.6	12.5 - 14.0

Physical Properties

Properties	Unit	Value	Method of Testing
Specific gravity	g/cub.cm	1.4 - 1.45	IS 13360/Part 3/Sec. 1
Compressive strength	kg/sq.cm	600 - 700	ASTM D 695
Flexural strength	kg/sq.cm	900 - 913	ASTM D 790
Maximum bending stress	kg/sq.cm	21	-
Modulus of elasticity	kg/sq.cm	2800 + 200	IS 8543 part 4/sec. 1 19840
Tensile strength	N/sq.mm	50 + 5	ASTM-D 1708/DIN 534555
Vicat softening temp	0 Deg C	76	IS 6307 - 1985



Drop Test



Pressure Test



VSPT Test

Testament of our Steadfast Commitment

Maruthi Pipes are the perfect blend of quality and durability. We have always given emphasis on the final outcome and we strive to meet the requisite standards of different countries with our end product analysis. Our quality lab is well-equipped to analyse the final product on various quality measures such as:

- Formulation regress
- Heat withstanding temperature
- Hydrostatic burst pressure rating
- Fracture resistance
- Tensile Characteristics
- Joint Leak Proof test
- Load Carrying capacity
- UV Race Transmitting Stability

Bringing a broad range of products that equally matches global requisites and ISI standards as well



Rigid PVC Pipes | Fabricated Fittings | uPVC Plumbing Pipes
uPVC Column Pipes | HDPE Pipes & Drip Laterals | Borewell Casing Pipes | Fittings

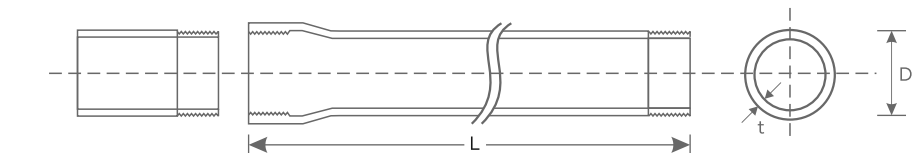
PVC Borewell Casing Pipes

At MARUTHI, we are in the pursuit of innovation to meet the growing market demands by offering an extensive array of durable uPVC Casing pipes from 140" to 280" OD that are used for various underground applications. We have been able to become the leading Plastic Casing Pipes Exporters and Suppliers with a diverse range of pipes in adherence to IS:12818-1992 standards.

Advantages

- Non-corrosive & chemical resistant
- High strength, safe & durable
- Excellent mechanical properties, collapsible strength and capable to withstand maximum hydraulic pressure which the pipes are subjected to during the construction of well
- Special trapezoidal threading to provide powerful grip between thread ends
- Easy installation, Easy fitment, re-fitment of pipe to pipe
- Screen casing pipes facilitate optimum performance and safety by keeping the gravel pack & other foreign substances out of the well
- Horizontal slots in screen casing pipe ensure higher permeability, thus saving pumping energy & higher yields

Dimensions of casing pipes conforming to IS 12818:1992

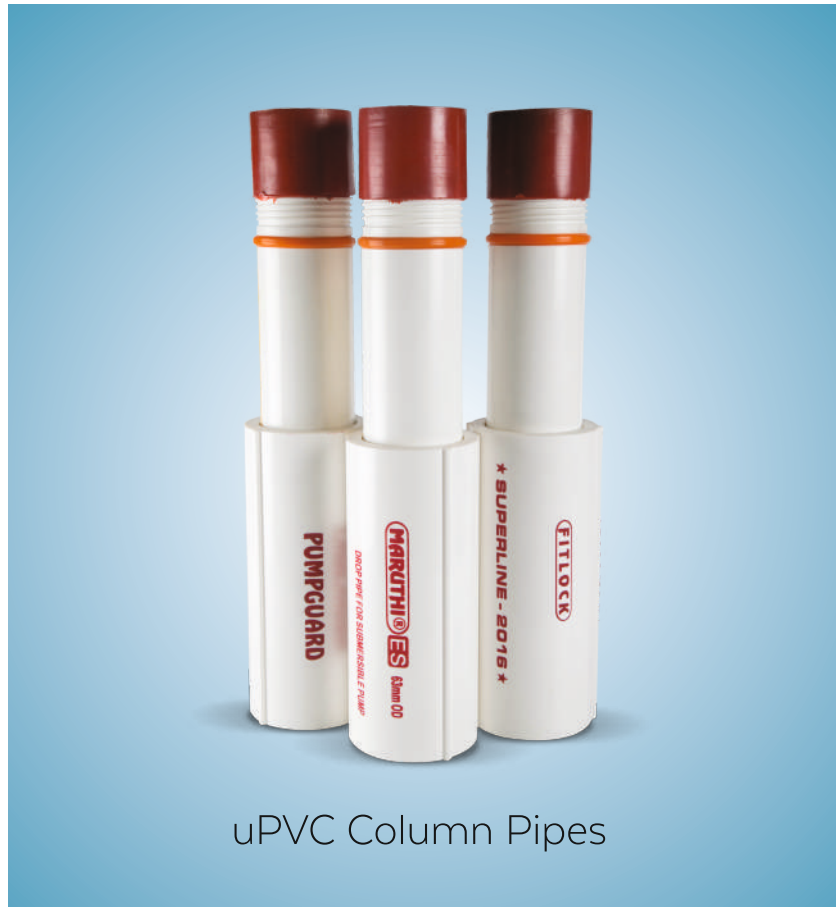


Trapezoid Threading

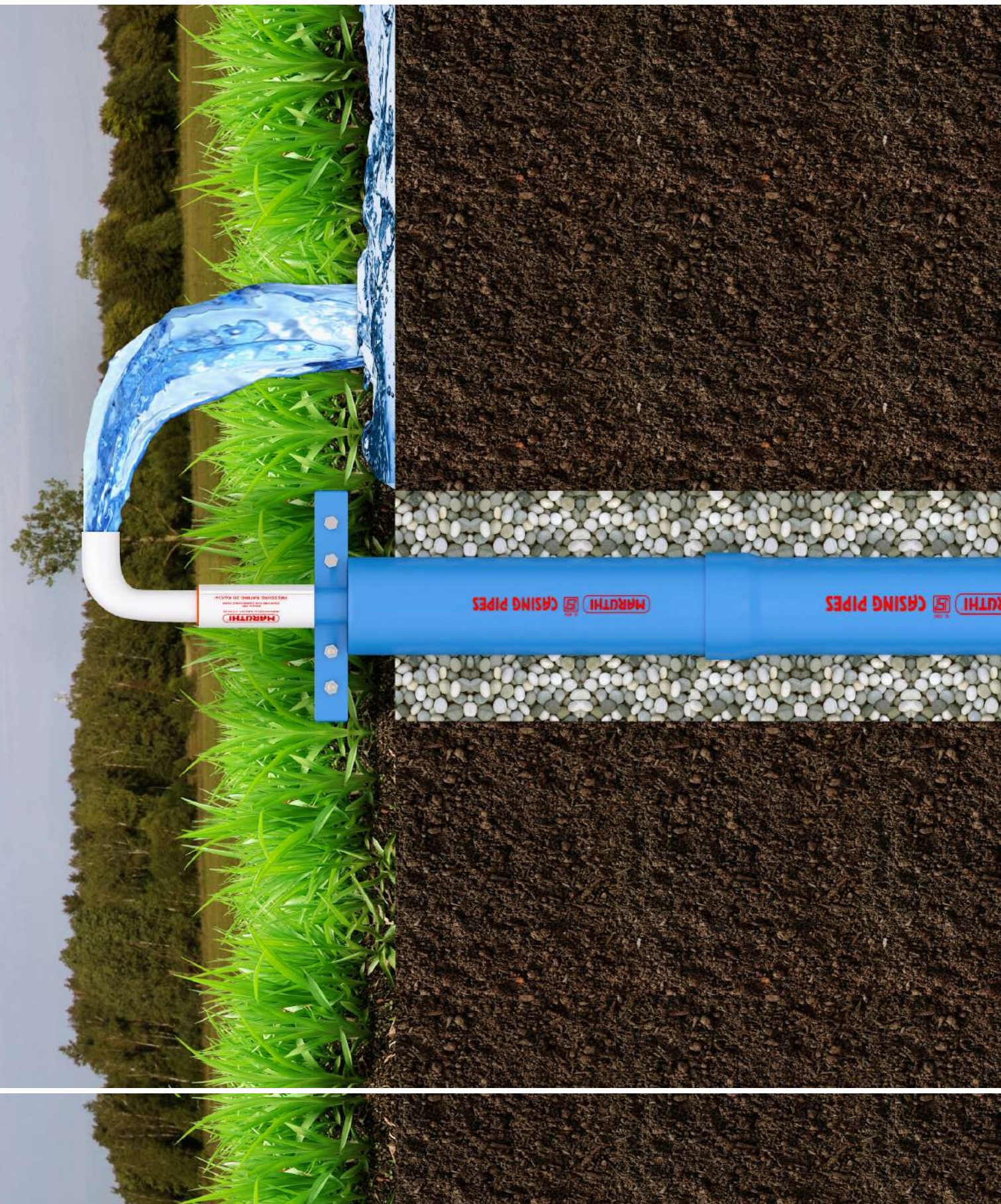




PVC Borewell
Casing Pipes



Maruthi Piping solutions get more reliable, safe and manageable.



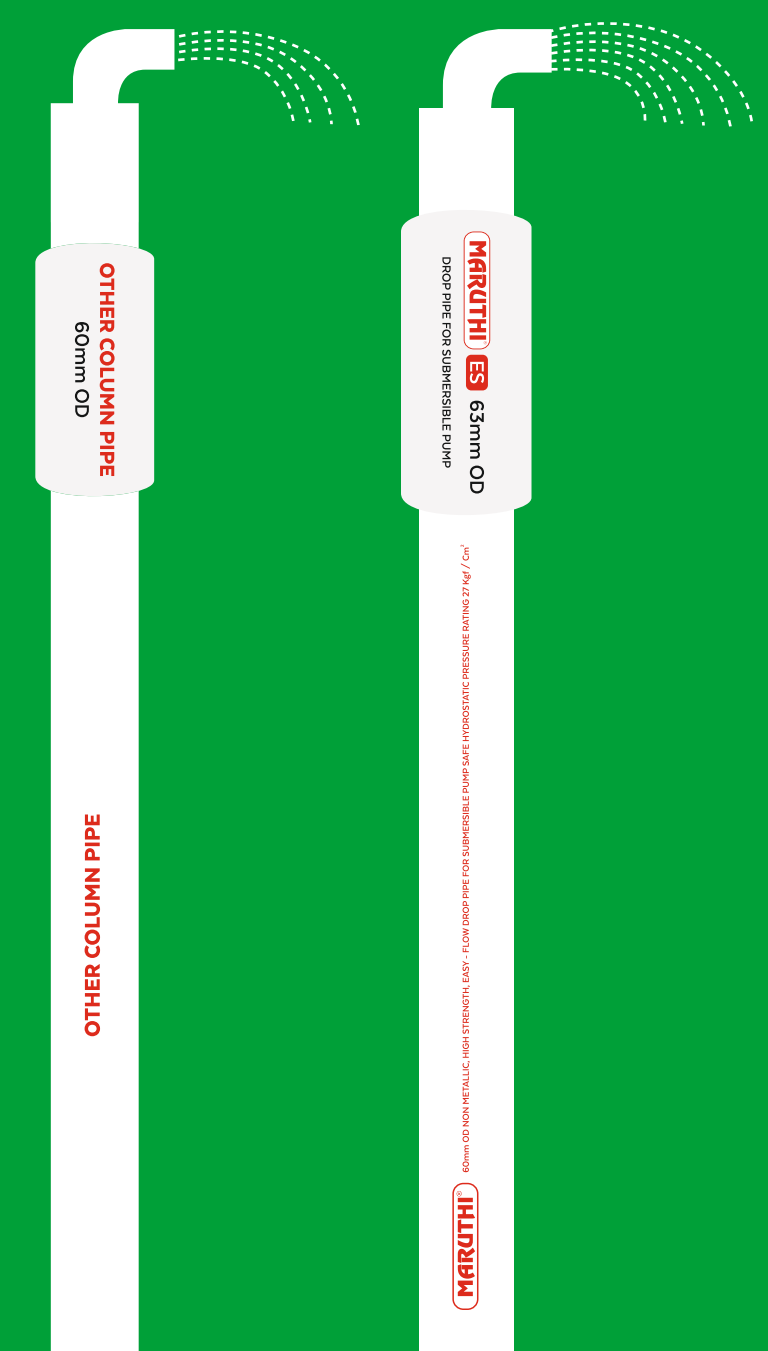
Maruthi Energy Saving (ES) Column Pipes

MARUTHI PIPES has recently introduced the concept of Energy Saving in the manufacture of Column Pipes to meet the dwindling level of underground water. In the urbanized modern world, the increasing number of bore-well installations has created a severe threat to its availability, as the underground water table is going down day-by-day across the globe. This has led to reducing the Inner Diameter of the column pipes and the efficiency of submersible pumps started declining with higher consumption of power and loss of money on the other end. With an objective to conserve energy and to reduce consumer concerns, Maruthi has created the World's First Energy Saving Concept based "Maruthi ES Column Pipes" with incremental ID's to save more energy and money.

Unlike the other Column Pipes, ES pipes can yield 20% more water with the same submersible pumps. This key advantage of ES pipes will enable the consumer to Save 73 Days EB Bill in a year.

**SAVE
73 DAYS**
EB BILL IN A YEAR

20%
MORE WATER
WITH THE SAME
SUBMERSIBLE PUMPS



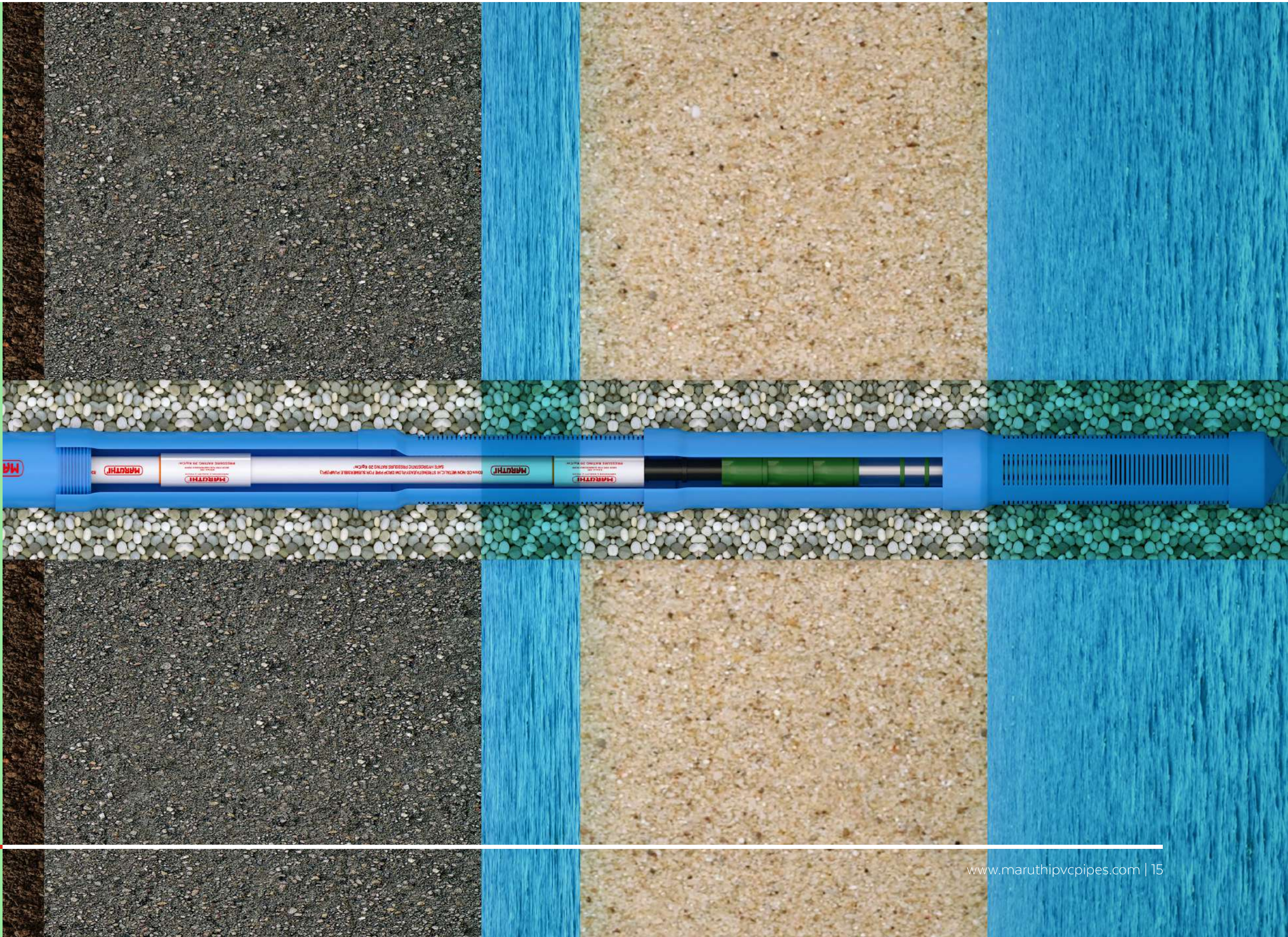
Dimensional Specification / Load & Press. Tech- Chart

SIZE OF PIPE (ND/OD)	CLASSIFICATION OF PIPE	WALL THICKNESS		HYDRO STATIC PRESSURE RATING KG/CM ²	SAFE PULLING LOAD (KGF)	ULTIMATE BREAKING LOAD (KGF)	SAFE PUMP DELIVER HEAD (Mtrs)	STD. PACKING QTY
		ET 0.5	BT 0.5					
1" 25 MM ND 33 MM OD	SW	4.1	1.8	13	500	900	130	25
	MW	4.3	2.2	15	600	1100	150	25
	MW PLUS	4.9	3.6	21	800	1300	210	25
	DW	5.5	4.0	30	1200	2000	300	25
	HDW	NOT APPLICABLE						
1 1/4" 32 MM ND 42 MM OD	SW	4.4	2.4	13	900	1400	130	25
	MW	4.7	3.0	15	1050	1600	150	25
	MW PLUS	5.2	3.5	21	1150	1800	210	25
	DW	5.6	4.0	26	1500	2600	260	25
	HDW	7.0	5.4	35	1800	3200	350	20
1 1/2" 40 MM ND 48 MM OD	SW	4.8	2.7	13	1000	1700	130	20
	MW	5.4	3.3	15	1200	2000	150	20
	MW PLUS	6.0	3.8	21	1500	2500	210	20
	DW	6.4	4.3	26	1700	3000	260	20
	HDW	7.7	6.1	35	2400	4100	350	15
2" 50 MM ND 60MM OD	MW	5.5	2.9	13	1500	2500	130	15
	MW PLUS	6.0	3.8	17	1900	3100	170	15
	DW	7.0	4.4	20	2100	3600	200	15
	EXCEL	8.5	5.7	27	2800	4700	270	10
	HDW	9.8	7.0	35	3400	5600	350	10
2 1/2" 65 MM ND 75 MM OD	MW	6.2	3.0	11	1800	3100	110	10
	DW	7.0	4.3	16	2700	4700	160	10
	PREMIUM	8.2	5.5	21	3500	6000	210	10
	EXCEL	9.3	6.6	26	4200	7000	260	07
	HDW	11.2	8.7	35	5300	9000	350	07
3" 80 MM ND 88 MM OD	MW	6.8	3.7	11	2600	4500	110	05
	DW	7.9	5.3	17	4000	6800	170	05
	PREMIUM	9.0	6.5	21	4900	8200	210	05
	EXCEL	10.2	7.5	26	5700	9600	260	05
	HDW	12.7	9.9	35	7300	12500	350	05
4" 100 MM ND 113 MM OD	MW	7.0	4.4	11	4000	6800	110	05
	DW	9.0	6.0	15	5900	10000	150	05
	PREMIUM	10.7	7.9	21	7700	13000	210	05
	EXCEL	12.3	9.7	26	9500	16000	260	05
	HDW	15.8	13.0	35	12200	21000	350	03

*Dimensional specification can be changed based on development

Special Features of Maruthi uPVC Column Pipes to other Column Pipes

Speciality Features	Maruthi uPVC Column Pipe	Other Column Pipes
Coupler/ Socket Thickness	More >	Less <
Pipe Weight	More >	Less <
Pipe Thickness	More >	Less <
Breaking Load	More >	Less <
Heat Resistant Profile Rubber Rubber	Present	Absent
Shock Absorbability at Joints	More >	Less <
Profile Rubber Longevity	More >	Less <
Type of Locking (SLS/Fitlock)	Effective	Less Effective
Hairline Crack in coupler / Pipe during usage	Doesn't Occur	Occurs



uPVC Column Pipes

Coupler showing of SS Spring
(Connecting Agent)

uPVC Column Pipes

In the existing ecological system, aggressive ground water contains acid base, salt and chemicals. It is strong enough to corrode even metal pipes rapidly, and over a period of time, it leads to affect the earth with serious consequences. MARUTHI pipes strive to overlook this hazard with an innovative range of uPVC column pipes designed with two Special Locking Systems called, SLS Locking System and Fit Lock System.

Both these locking systems are designed to withstand and overcome the difficulties faced by general pipes available in the market. They are lightweight, easy to use, energy saving and corrosion resistant.

Advantages

- Innovative SLS Locking System for pipes of dia up to 1.5"
- Innovative SS Spring steel based FITLOCK locking system for dia 2" & above
- Lightweight, non-corrosive and chemical resistance
- High impact strength & High tensile strength
- High hydrostatic pressure rating
- Powerful grip between threading
- Leak-proof joints
- Specially designed rubber profiles to absorb the impulse of energy
- Easy fitment, re-fitment of pipe to pipe
- Energy efficient pipes with longer durability



SLS LOCKING



FIT LOCK SYSTEM