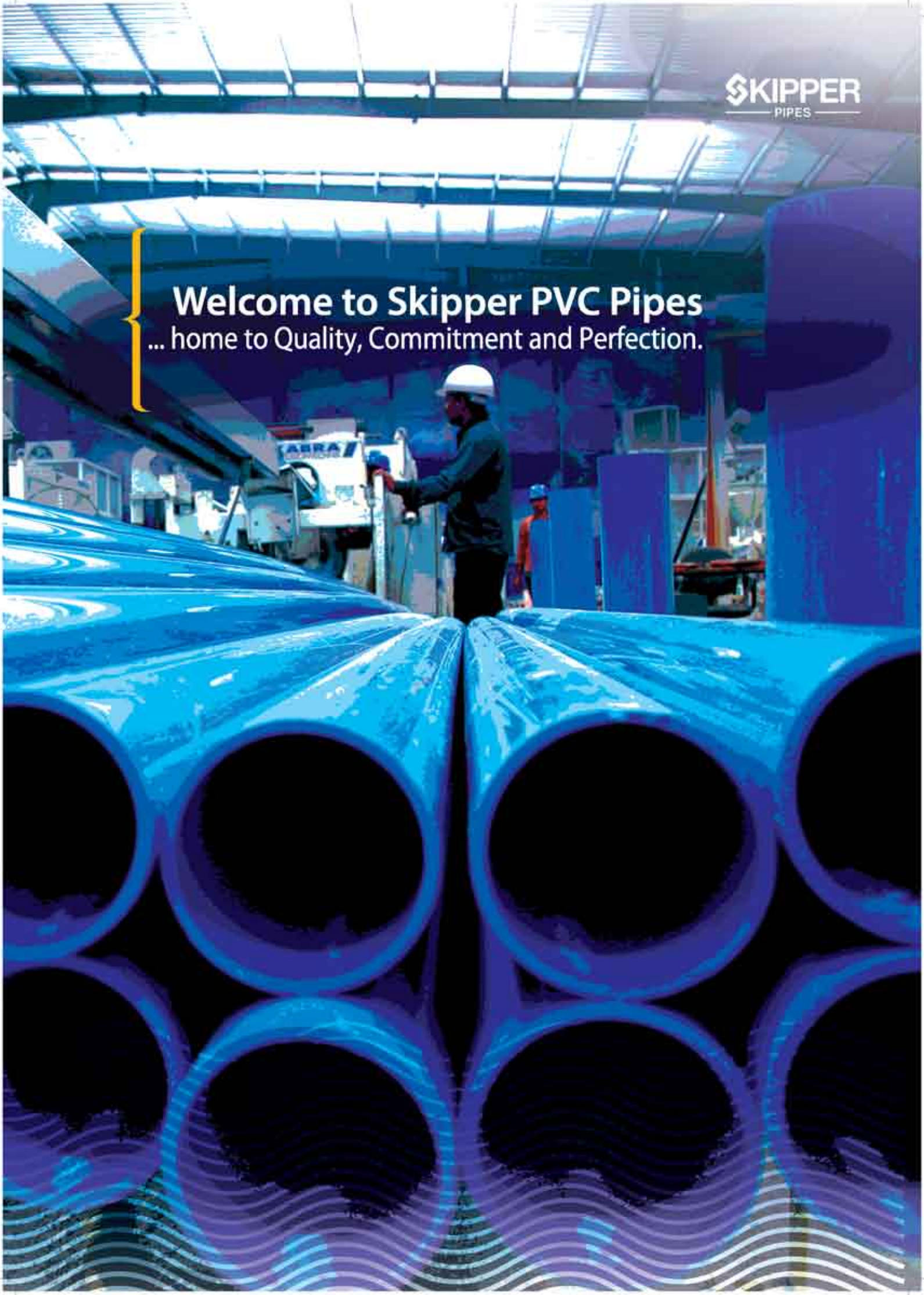
SKIPPER
PIPES

An ISO 9001
Certified Company

FIXED FOR LIFE

ORR TECHNOLOGY
FOR EXTRA STRENGTH

YOUR SMARTER CHOICE


SKIPPER
PIPES
Welcome to Skipper PVC Pipes
... home to Quality, Commitment and Perfection.

A SUSTAINABLE GROWTH STORY

In 1981 our founders started a quest for perfection. They named it SKIPPER. The world gave it an ISO 9001 certification and held it up as a symbol of quality.

Skipper grew fast and across various business verticals. From Transmission Towers, Lighting Poles, Tube Mills and Galvanizing Plants, to HDD machines and PVC plants – Skipper spread the same level of commitment to quality and quest for perfection everywhere.

While all this vertical development was going on, there was also a parallel horizontal growth. Be it West Bengal or South Africa, or any other part of the world – Skipper Limited has always been creating a value chain for its customers through constant innovation and sustained growth.

This fuelled an exponential growth as the Company recently crossed 16 billion INR in revenues – a figure that's doubled in just 3 years!

Skipper believes perfection is not a destination, but a journey. A journey where the Company is constantly developing on its 3 decades of domain expertise. As a result, besides its quality reputation, Skipper has also developed a strong customer service orientation, supported by a productive workforce working on a pre-planned development roadmap.

In short, SKIPPER is building on its own growth to plan further growths.

And there are no signs of slowing down.

ADVANTAGE SKIPPER

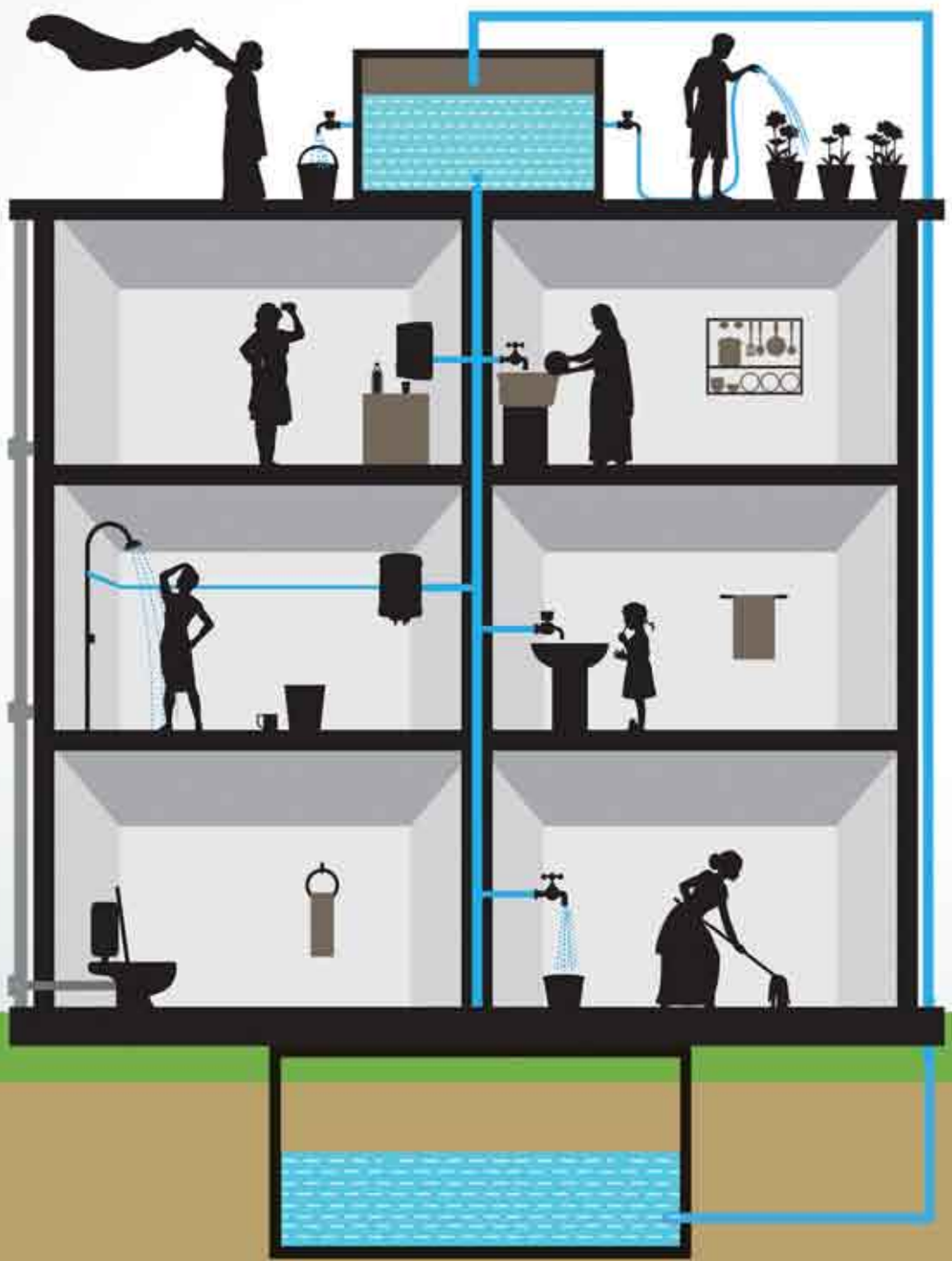
Research and Development: The full facility labs, manned by qualified professionals utilize the latest and most advanced equipment to create tomorrow's solutions.

Quality Control: Skipper PVC Pipes conform to various International and Indian standards. All the products are vigorously inspected and tested on-line as well as in the Skipper Labs.

External Quality Audits: Various Inspecting authorities examine the product prior to the issue of appropriate Test Certificates. Even samples are tested at Government Laboratories.

Customer Focus: Service has to be the best and on time. It means doing what you say you will, when you say you will and how you say you will, at the price you promised.

Widespread Supply and Dealer Network: A massive dealer network of over 500 dealers across Eastern India and a rapidly growing base across the West and South make Skipper one of most well recognized brands.



Complete Range Of Plumbing Pipes and Fittings

Welcome to the world of Skipper – a combination of cutting-edge technology and years of painstaking R&D. A place which has all the answers to pipes and fittings related problems. Resistant to both hot and cold water, Skipper's UPVC and CPVC pipes are available for every need and in any size.

Skipper's MagikFlow and MagikFit are two obvious choices to ensure a comprehensive and error-free drainage system. These pipes are ideal for all use-residential, commercial or industrial. Skipper is always focused on ensuring an ultra-smooth, free-flowing, high-quality pipes and fittings disregarding the size and quantity of the requirements.

CPVC PIPES AND FITTINGS

SKIPPER PIPES

Superior Quality. Long Life.

Made of chlorinated polyvinyl chloride, Skipper Durastream CPVC Pipes and Fittings are manufactured according to IS 15778 and ASTM D-2846 respectively. Skipper Durastream CPVC Pipes and Fittings offer a long-lasting and cost-effective solution for hot and cold water in plumbing and potable water applications

- Available in a complete range from 15 to 50 mm (½" to 2")
- The pipes are available in SDR 11 and SDR 13.5, whereas fittings are available in SDR 11 pressure class
- Threaded inserts in the transition fittings are made from brass

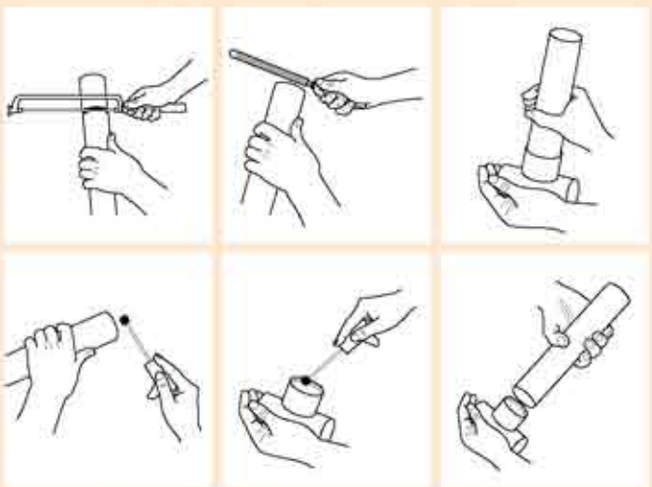
Nominal Size		SDR - 11				SDR - 13.5			
		Wall Thickness (t) in mm		Working Pressure at		Wall Thickness (t) in mm		Working Pressure at	
				27°C	82°C			27°C	82°C
mm	Inch	Min	Max	Kgf/cm²		Min	Max	Kgf/cm²	
15	½"	1.70	2.20	27.60	6.80	1.40	1.90	21.80	5.50
20	¾"	2.00	2.50	27.60	6.80	1.70	2.20	21.80	5.50
25	1"	2.60	3.10	27.60	6.80	2.10	2.60	21.80	5.50
32	1¼"	3.20	3.70	27.60	6.80	2.60	3.10	21.80	5.50
40	1½"	3.80	4.30	27.60	6.80	3.10	3.60	21.80	5.50
50	2"	4.90	5.50	27.60	6.80	4.00	4.60	21.80	5.50

SKIPPER
CPVC Pipes & Fittings
by
Durastream™
CPVC COMPOUND

CPVC FITTINGS

Instructions

Skipper Durastream CPVC Pipes are best joined using Skipper solvent cement, which is a single step fast setting solvent cement. The bonding takes place due to chemical fusion of the mating surfaces. The solvent cement eliminates the need for any electric or heat source for joining. If it is necessary to cut the pipe, then it should be done with a fine toothed handsaw.



Easy and 100% leak proof installation

SKIPPER
CPVC Pipes & Fittings
by
Durastream
CPVC COMPOUND

Elbow (90°)

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Elbow (90°) Reducer

INCH	MM
¾" x ½"	20 x 15
1" x ½"	25 x 15
1" x ¾	25 x 20

Tee

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Tee Reducer

INCH	MM
½" x ½" x ¾"	15 x 15 x 20
¾" x ½" x ½"	20 x 15 x 15
¾" x ½" x ¾"	20 x 15 x 20
¾" x ¾" x ½"	20 x 20 x 15
1" x 1" x ½"	25 x 25 x 15
1" x 1" x ¾"	25 x 25 x 20
1¼" x 1¼" x ½"	32 x 32 x15
1¼" x 1¼" x ¾"	32 x 32 x 20
1¼" x 1¼" x 1"	32 x 32 x 25
1½" x 1½" x ½"	40 x 40 x 15
1½" x 1½" x ¾"	40 x 40 x 20
1½" x 1½" x 1"	40 x 40 x 25
1½" x 1½" x 1¼"	40 x 40 x 32
2" x 2" x ½"	50 x 50 x 15
2" x 2" x ¾"	50 x 50 x 20
2" x 2" x 1"	50 x 50 x 25
2" x 2" x 1¼"	50 x 50 x 32
2" x 2" x 1½"	50 x 50 x 40

SKIPPER PIPES

Coupler

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Coupler Reducer

INCH	MM
¾" x ½"	20 x 15
1" x ½"	25 x 15
1" x ¾"	25 x 20
1¼" x ½"	32 x 15
1¼" x ¾"	32 x 20
1¼" x 1"	32 x 25
1½" x ½"	40 x 15
1½" x ¾"	40 x 20
1½" x 1"	40 x 25
1½" x 1¼"	40 x 32
2" x ½"	50 x 15
2" x ¾"	50 x 20
2" x 1"	50 x 25
2" x 1¼"	50 x 32
2" x 1½"	50 x 40

Union

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Female Thread Adapter

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Male Thread Adapter

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Male Thread Adapter Reducer

INCH	MM
¾" x ½"	20 x 15
1" x ¾"	25 x 20

Tank Connector

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

SKIPPER
CPVC Pipes & Fittings
by
Durastream
CPVC COMPOUND

Step Over Bend

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Cross Tee

INCH	MM
½"	15
¾"	20
1"	25

Female Thread Adapter (Brass)

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Female Thread Adapter (Brass) Reducer

INCH	MM
¾" x ½"	20 x 15
1" x ½"	25 x 15
1" x ¾"	25 x 20

End Cap

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Elbow (45°)

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Male Thread Adapter (Brass)

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Male Thread Adapter (Brass) Reducer

INCH	MM
¾" x ½"	20 x 15
1" x ½"	25 x 15
1" x ¾"	25 x 20

Ball Valve

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

SKIPPER PIPES

Transition Bushing

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Bushing Reducer

INCH	MM
¾" x ½"	20 x 15
1" x ½"	25 x 15
1" x ¾"	25 x 20
1¼" x ½"	32 x 15
1¼" x ¾"	32 x 20
1¼" x 1"	32 x 25
1½" x ½"	40 x 15
1½" x ¾"	40 x 20
1½" x 1"	40 x 25
1½" x 1¼"	40 x 32
2" x ½"	50 x 15
2" x ¾"	50 x 20
2" x 1"	50 x 25
2" x 1¼"	50 x 32
2" x 1½"	50 x 40

Elbow (90°) Brass

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
¾" x ½"	20 x 15
1" x ½"	25 x 15
1" x ¾"	25 x 20
1¼" x ½"	32 x 15
1¼" x ¾"	32 x 20

End Plug

INCH	MM
½"	15
¾"	20

Tee Brass

INCH	MM
½" x ½" x ½"	15 x 15 x 15
¾" x ¾" x ½"	20 x 20 x 15
¾" x ¾" x ¾"	20 x 20 x 20
1" x 1" x ½"	25 x 25 x 15
1" x 1" x ¾"	25 x 25 x 20
1¼" x 1¼" x ½"	32 x 32 x 15

Solvent Cement

Available in 100 ml only

UPVC PIPES AND FITTINGS

SKIPPER PIPES

Complete Solutions for Potable Water

Skipper high pressure UPVC solvent weld plumbing systems are the most suitable, easy and economical solution for transportation and distribution of potable water. This system is very easy to install and is functionally most suitable for plumbing applications like down-take and up-take lines, terrace looping and concealed pipe work in any building or construction. Skipper UPVC is a value added long-term plumbing solution for the building industry.

- Skipper pipes are manufactured in 15 to 300 mm (½" to 12") sizes as per ASTM D-1785
- The complete range of fittings in SCH 80 are also available as per ASTM D-2467
- Pipes are 3m long and are available in both SCH 40 and SCH 80 pressure class
- A 'Lead Free' variant is also available

Inside Diameter (Nominal Bore)		Outside Diameter	Schedule 40 (Light Duty)	Schedule 80 (Medium Duty)	Length
Inch	mm	mm	Wall thick (mm)	Wall thick (mm)	Meters
½"	15	21.24-21.44	2.77-3.28	3.73-4.24	3 and 6
¾"	20	26.57-26.77	2.87-3.38	3.91-4.42	3 and 6
1"	25	33.27-33.53	3.38-3.89	4.55-5.08	3 and 6
1¼"	32	42.03-42.29	3.56-4.07	4.85-5.43	3 and 6
1½"	40	48.11-48.41	3.68-4.19	5.08-5.69	3 and 6
2"	50	60.17-60.47	3.91-4.42	5.54-6.20	3 and 6
2½"	65	72.84-73.20	5.16-5.77	7.01-7.85	3 and 6
3"	80	88.70-89.10	5.49-6.15	7.62-8.53	3 and 6
4"	100	114.07-114.53	6.02-6.73	8.56-9.58	3 and 6
5"	125	141.05-141.55	6.55-7.34	9.52-10.66	3 and 6
6"	150	168-168.56	7.11-7.97	10.97-12.29	3 and 6
8"	200	218.7-219.46	8.18-9.17	12.7-14.22	3 and 6
10"	250	272.67-273.43	9.27-10.39	15.06-16.86	3 and 6
12"	300	323.47-324.23	10.31-11.55	17.45-19.53	3 and 6

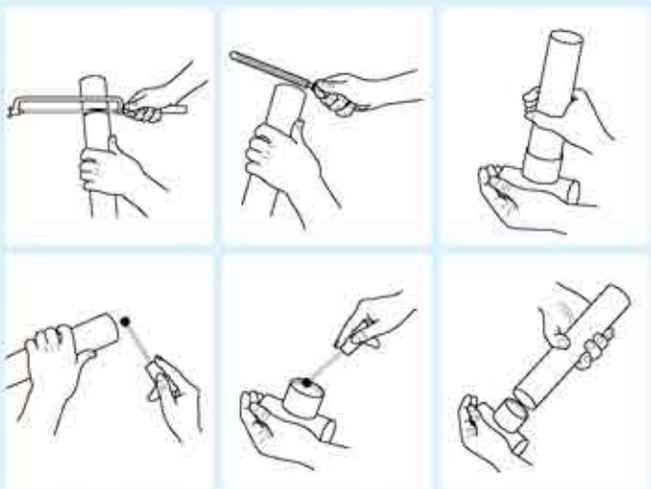
Skipper also manufactures various fabricated PVC Fittings such as Nipple, Reducing Socket, Coupler, MTA and FTA.

UPVC LEAD FREE FITTINGS

Instructions

Skipper UPVC lead free Pipes and Fittings are light weight, making them easy to use while reducing transportation and installation costs. The jointing of these pipes is fairly simple because it requires no special tools for cutting. A one-stop solvent cement is all that is required to provide a 100% leak proof joint.

If it is necessary to cut the pipe, then it should be done with a fine toothed handsaw.



Easy and 100% leak proof installation

Elbow (90°)

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Elbow (90°) Reducer

INCH	MM
¾" x ½"	20 x 15
1" x ½"	25 x 15
1" x ¾	25 x 20

Tee

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Tee Reducer

INCH	MM
¾" x ¾" x ½"	20 x 20 x 15
1" x 1" x ½"	25 x 25 x 15
1" x 1" x ¾"	25 x 25 x 20
1¼" x 1¼" x ½"	32 x 32 x15
1¼" x 1¼" x ¾"	32 x 32 x 20
1¼" x 1¼" x 1"	32 x 32 x 25
1½" x 1½" x ½"	40 x 40 x 15
1½" x 1½" x ¾"	40 x 40 x 20
1½" x 1½" x 1"	40 x 40 x 25
1½" x 1½" x 1¼"	40 x 40 x 32
2" x 2" x ½"	50 x 50 x 15
2" x 2" x ¾"	50 x 50 x 20
2" x 2" x 1"	50 x 50 x 25
2" x 2" x 1¼"	50 x 50 x 32
2" x 2" x 1½"	50 x 50 x 40

SKIPPER PIPES

Coupler

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Coupler Reducer

INCH	MM
¾" x ½"	20 x 15
1" x ½"	25 x 15
1" x ¾"	25 x 20
1¼" x ½"	32 x 15
1¼" x ¾"	32 x 20
1¼" x 1"	32 x 25
1½" x ½"	40 x 15
1½" x ¾"	40 x 20
1½" x 1"	40 x 25
1½" x 1¼"	40 x 32
2" x ½"	50 x 15
2" x ¾"	50 x 20
2" x 1"	50 x 25
2" x 1¼"	50 x 32
2" x 1½"	50 x 40

Union

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Female Thread Adapter

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Male Thread Adapter

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Male Thread Adapter Reducer

INCH	MM
3/4" x 1/2"	20 x 15

Tank Connector

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Cross Tee

INCH	MM
½"	15
¾"	20
1"	25

End Cap

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Elbow (45°)

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Ball Valve

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Female Thread Adapter (Brass)

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Female Thread Adapter (Brass) Reducer

INCH	MM
¾" x ½"	20 x 15
1" x ½"	25 x 15
1" x ¾"	25 x 20

Male Thread Adapter (Brass)

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
1½"	40
2"	50

Male Thread Adapter (Brass) Reducer

INCH	MM
¾" x ½"	20 x 15
1" x ½"	25 x 15
1" x ¾"	25 x 20

SKIPPER PIPES

Bushing Reducer

INCH	MM
¾" x ½"	20 x 15
1" x ½"	25 x 15
1" x ¾"	25 x 20
1¼" x ½"	32 x 15
1¼" x ¾"	32 x 20
1¼" x 1"	32 x 25
1½" x ½"	40 x 15
1½" x ¾"	40 x 20
1½" x 1"	40 x 25
1½" x 1¼"	40 x 32
2" x ½"	50 x 15
2" x ¾"	50 x 20
2" x 1"	50 x 25
2" x 1¼"	50 x 32
2" x 1½"	50 x 40

Elbow (90°) Brass

INCH	MM
½"	15
¾"	20
1"	25
1¼"	32
¾" x ½"	20 x 15
1" x ½"	25 x 15
1" x ¾"	25 x 20

End Plug

INCH	MM
½"	15
¾"	20
1"	25

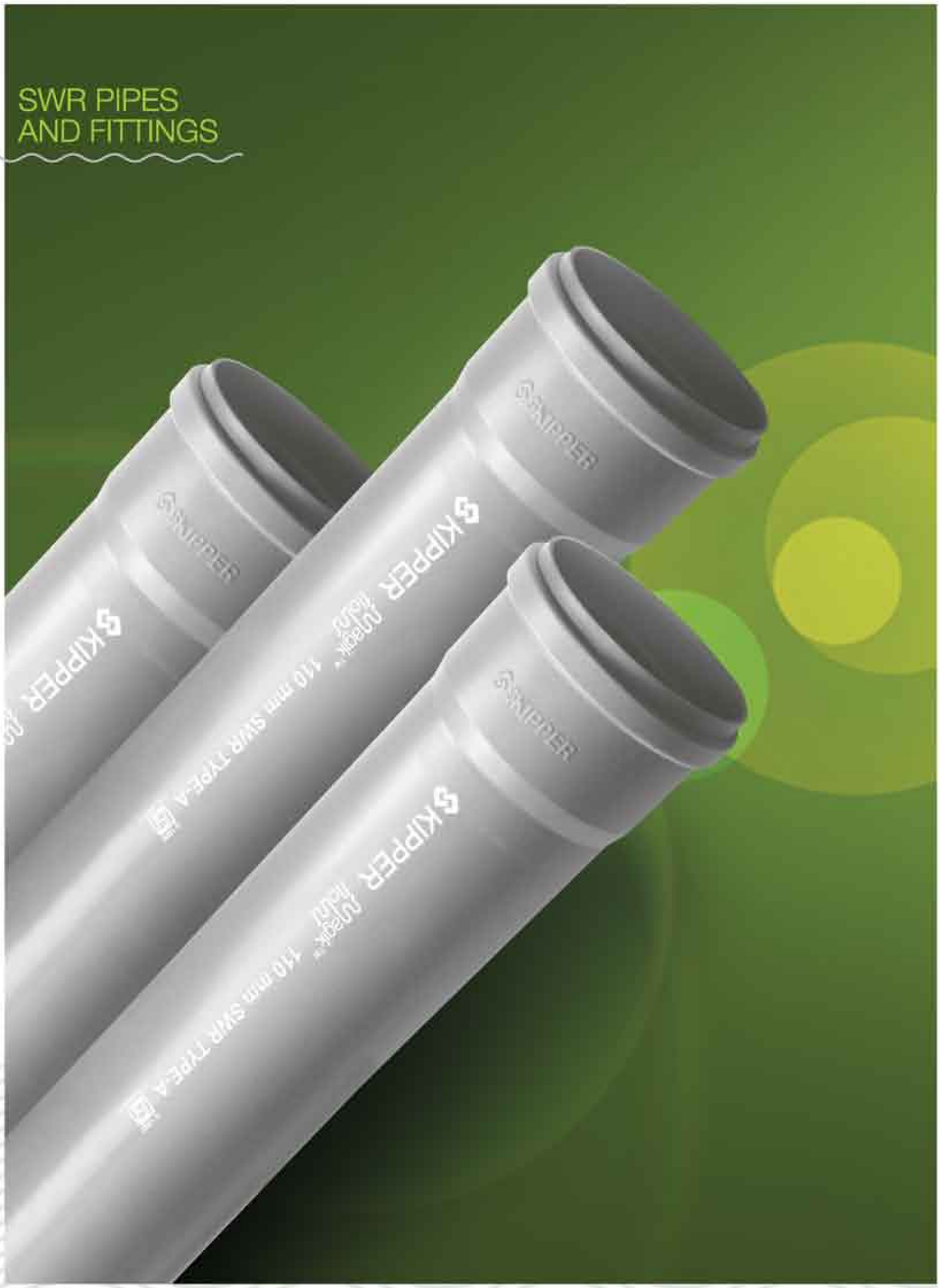
Tee Brass

INCH	MM
½"	15
¾"	20
1"	25
¾" x ¾" x ½"	20 x 20 x 15
1" x 1" x ½"	25 x 25 x 15
1" x 1" x ¾"	25 x 25 x 20
1¼" x 1¼" x ¾"	32 x 32 x 20
1½" x 1½" x ¾"	40 x 40 x 20

Solvent Cement

Available in 75ml, 250ml, 500ml, 1000ml & 5000ml

SWR PIPES AND FITTINGS



SKIPPER PIPES

SKIPPER magik™ flow SWR Exterior Pipes

Smooth Flow. Life Long.

With a smooth finishing that allows free flow ensuring better performance, Skipper Magikflow SWR Pipes and Fittings are highly recommended for residential/office/hotel and commercial use. They are also used for drainage systems at public places such as stations, airports, hospitals and theatres.

While these SWR Pipes and Fittings are light and easy to handle, they have very high tensile strength and impact strength, making it tough, resilient and durable. Resistant to rust, UV (ultraviolet) radiation and most chemical actions, Magikflow SWR Pipes & Fittings ensure a very long life span.

- Various traps and special fittings make the system complete in every respect
- The pipes conform to IS: 13592 whereas the fittings conform to IS: 14735 and perform better than any other products available in the market

Magikflow SWR Pipes Product Details IS: 13592

Nominal Outside Diameter	Mean Outside Diameter		Outside Diameter at any point		Wall Thickness Type A		Wall Thickness Type B	
DN (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
75	75.0	75.3	74.1	75.9	1.8	2.2	3.2	3.8
110	110.0	110.4	108.6	111.4	2.2	2.7	3.2	3.8
160	160.0	160.5	158.0	162.0	3.2	3.8	4.0	4.6

SWR LITE SYSTEMS

Skipper also manufactures SWR LITE, a complete range of SWR Pipes and Fittings meant for lighter applications.

Nominal Outside Diameter	Mean Outside Diameter		Outside Diameter at any point		Wall Thickness	
DN (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
75	75.0	75.30	74.10	75.90	1.50	1.60
110	110.0	110.40	108.60	111.40	1.60	1.80

SWR FITTINGS

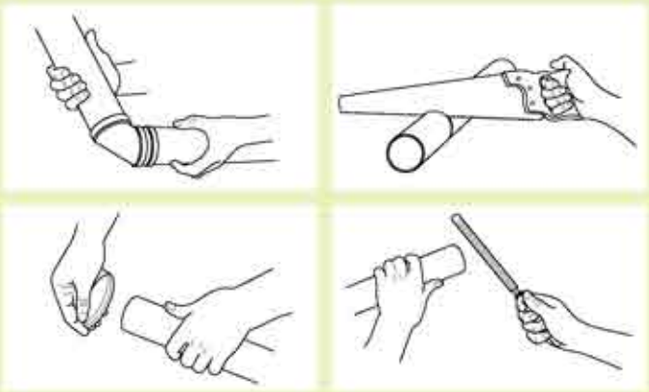
SKIPPER Magik flow™ SWR Exterior Pipes

Skipper MagikFit SWR Fittings are universally compatible with all SWR products with the same dimensions.
The following are the advantages of using Skipper MagicFit:

• Strong and durable • Light and easy to install
• Minimum maintenance • Leak proof • Easy cleaning
• Fire and chemical resistant • Rust free

Instructions

- The pipe and socket should be clean and dry
- The sealing ring should be evenly placed in the socket
- If it is necessary to cut the pipe, then it should be done with a fine toothed handsaw
- A chamfer similar to the factory produced chamfer on the supplied pipes is essential before any attempts of joining
- Subsequently, the rubber lubricant should be applied for smooth installation
- Keeping the pipes in a straight line, the spigot should be pushed into the socket with a light twisting motion
- Avoid over tightening of door caps
- Avoid leakage by cutting the pipes straight



Easy and 100% leak proof installation

Single Tee

Available in
75mm / 110mm / 160mm

Double Tee

Available in
75mm / 110mm

Single 'Y'

Available in
75mm / 110mm / 160mm

Double 'Y'

Available in
75mm / 110mm

Single Tee Door

Available in
75mm / 110mm / 160mm

SKIPPER PIPES

Double Tee Door

Available in
75mm / 110mm

Single 'Y' Door

Available in
75mm / 110mm

Vent Cowl

Available in
75mm / 110mm / 160mm

Double 'Y' Door

Available in
75mm / 110mm

Multi Floor Trap

Available in
75mm

Plain Bend (45°)

Available in
75mm / 110mm / 160mm

Cleaning Pipe

Available in
75mm / 110mm / 160mm

Coupler

Available in
75mm / 110mm / 160mm

Pipe Clip

Available in
75mm / 110mm / 160mm

Nahani Trap

Available in
75mm

Door Bend (L.H.) / (R.H.)
87.5°

Available in
75mm / 110mm

Door Bend
87.5°

Available in
75mm / 110mm / 160mm

Door Tee (R.H.)
87.5°

Available in
75mm / 110mm

Reducing Tee

Available in
110mm x 75mm
160mm x 110mm

P. Trap

Available in
110mm X 110mm
125mm X 110mm

Door Tee (L.H.)
87.5°

Available in
75mm / 110mm

Reducer

Available in
160mm x 110mm
110mm x 75mm

Reducing Tee Door
87.5°

Available in
75mm / 110mm
160mm x 110mm

Passover

Available in
75mm / 110mm

S. Trap

Available in
110mm x 110mm

W. C. Ring

Available in
110mm

Rubber Ring

Available in
75mm / 110mm / 160mm

A COMPLETE PLUMBING SYSTEM THAT GIVES YOU PEACE OF MIND

TOUGH AND DURABLE: CPVC has a much higher strength modulus than other thermoplastics, as a result it can withstand high pressure and temperature. The UPVC system is highly resilient, tough and durable with high tensile and impact strength.

ROBUST BUT FLEXIBLE: Skipper pipes are relatively more flexible. They have adequate tensile strength and burst strength to withstand the operating pressures encountered in almost all service conditions.

SIMPLE AND LEAK PROOF JOINTS: Quick jointing with special solvent cement supplied by the Company ensures 100% leak proof joints. In certain ranges, we also provide leak-proof ring-fit 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: Skipper pipes have better insulation properties, thus reducing heat loss and insulation requirement.

FIRE RESISTANCE: Skipper pipes do not support combustion.

SKIPPER PIPES

CHEMICAL RESISTANT AND CORROSION FREE: These systems are free from corrosion and have excellent resistance to various chemicals like strong mineral acids and bases. Hence it is absolutely safe for carrying potable water.

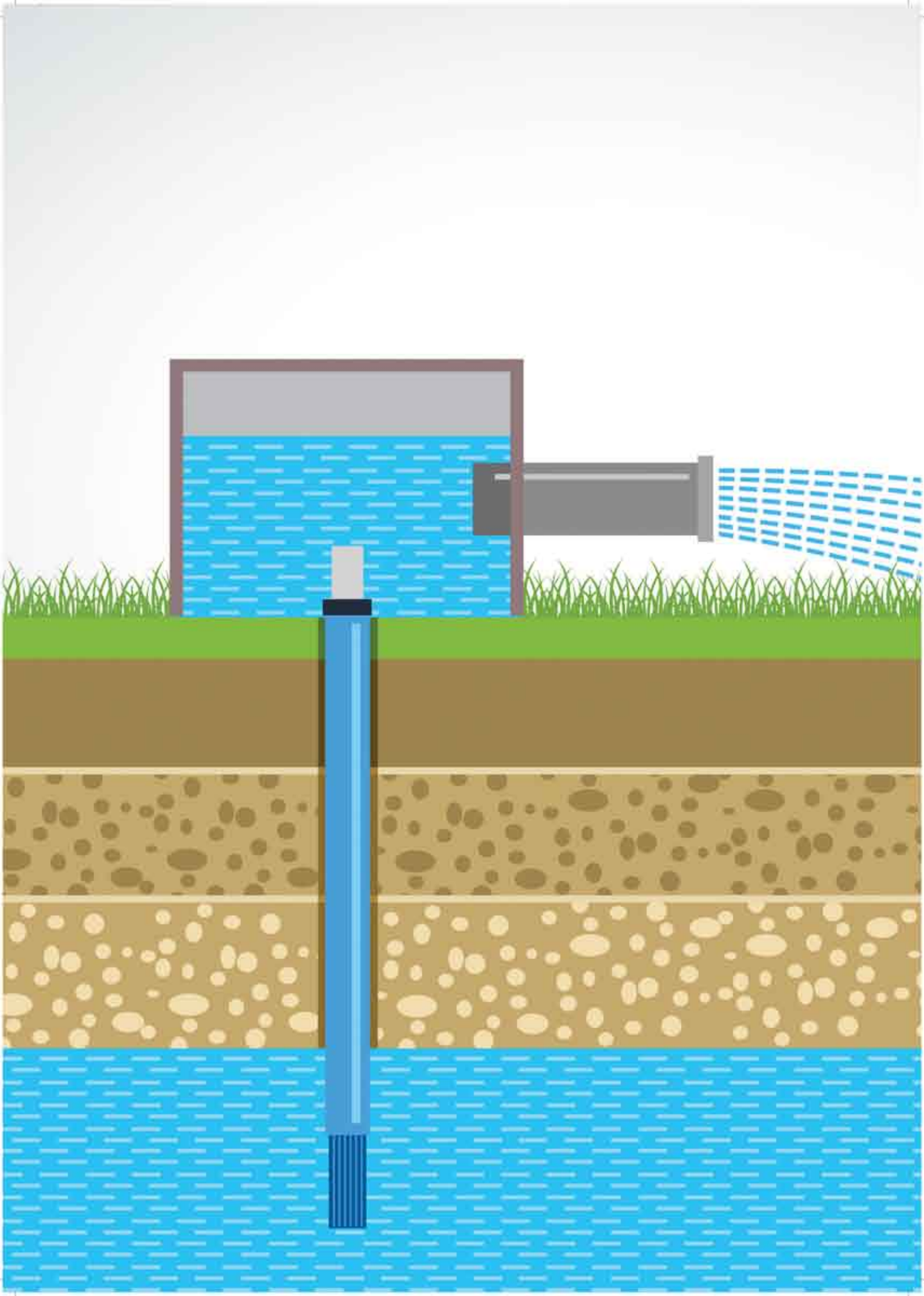
UV RESISTANT: Skipper pipes are unaffected by the harsh sunlight and weather changes, hence can be safely used for outdoor installations.

EASY ACCESS FOR CLEANING & CLEARING: Skipper SWR piping systems come with a smooth inside door along with threaded door caps that facilitate a thorough inspection and cleaning process.

SMOOTH AND STEADY FLOW: A mirror-smooth inside surface ensures high flow rate and low frictional loss. This system is free from rusting, pitting and offers good resistance to scale formation.

LEAST MAINTENANCE: Once installed, Skipper plumbing systems require almost no maintenance.

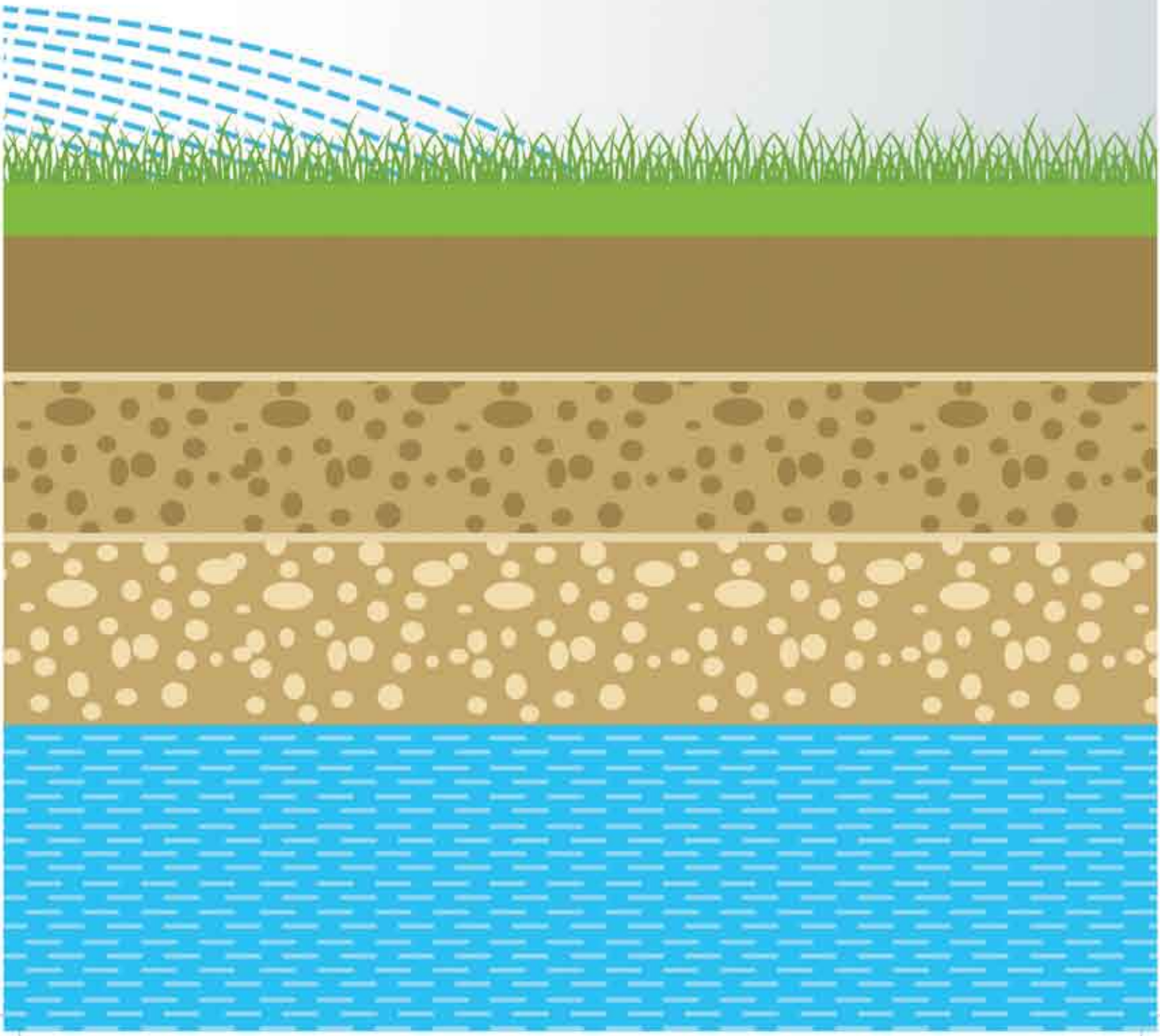
ECONOMIC FEASIBILITY: Due to its light weight and simple joining technique, it saves cost not only on material but also on transportation and installation.



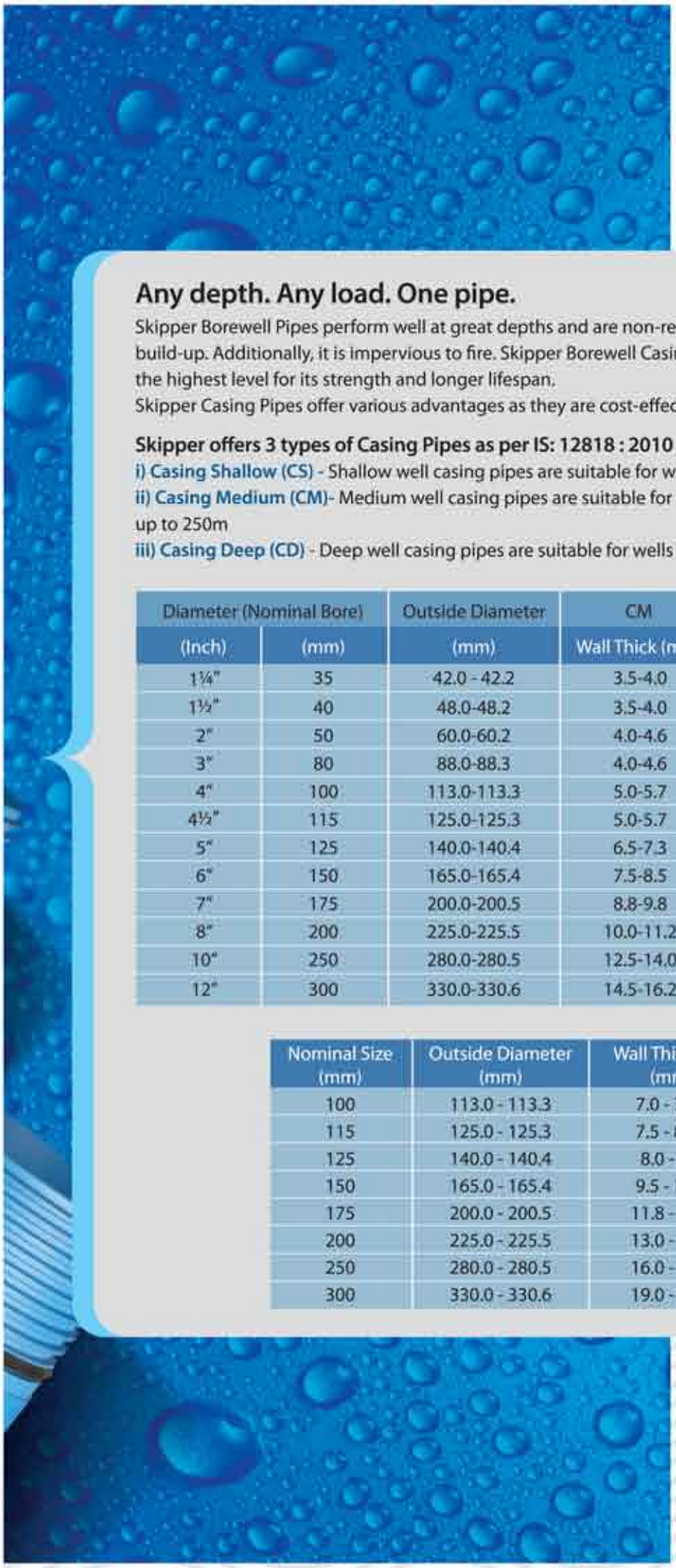
Borewell Systems

The Skipper range of Borewell Pipes perform well at great depths and are the preferred choice because they are non-reactive to corrosion, bacteria and fungal build-up. Additionally, it is impervious to fire.

Skipper UPVC Pipes are also ideal for irrigation. These pipes are better known as Irrigation Pipes which are used as long water supply lines for agricultural purposes as well as municipal and government projects. These pipes are also useful for agro-based industrial applications such as conveyance of waste, slurry, chemicals and other waste matter.



CASING PIPES



Any depth. Any load. One pipe.

Skipper Borewell Pipes perform well at great depths and are non-reactive to corrosion, bacteria and fungal build-up. Additionally, it is impervious to fire. Skipper Borewell Casing Pipes are recommended by experts at the highest level for its strength and longer lifespan.
Skipper Casing Pipes offer various advantages as they are cost-effective, light and easy to install.

Skipper offers 3 types of Casing Pipes as per IS: 12818 : 2010

i) Casing Shallow (CS) - Shallow well casing pipes are suitable for wells with depths up to 80m
ii) Casing Medium (CM)- Medium well casing pipes are suitable for wells with depths above 80m and up to 250m
iii) Casing Deep (CD) - Deep well casing pipes are suitable for wells with depths above 250m and upto 450m

Diameter (Nominal Bore)		Outside Diameter	CM	CS	Length
(Inch)	(mm)	(mm)	Wall Thick (mm)	Wall Thick (mm)	(Meters)
1¼"	35	42.0 - 42.2	3.5-4.0	NA	3 & 6
1½"	40	48.0-48.2	3.5-4.0	NA	3 & 6
2"	50	60.0-60.2	4.0-4.6	NA	3 & 6
3"	80	88.0-88.3	4.0-4.6	NA	3 & 6
4"	100	113.0-113.3	5.0-5.7	NA	3 & 6
4½"	115	125.0-125.3	5.0-5.7	NA	3 & 6
5"	125	140.0-140.4	6.5-7.3	NA	3 & 6
6"	150	165.0-165.4	7.5-8.5	5.7-6.5	3 & 6
7"	175	200.0-200.5	8.8-9.8	7.0-7.8	3 & 6
8"	200	225.0-225.5	10.0-11.2	7.6-8.8	3 & 6
10"	250	280.0-280.5	12.5-14.0	9.6-11.0	3 & 6
12"	300	330.0-330.6	14.5-16.2	11.2-13.3	3 & 6

Nominal Size (mm)	Outside Diameter (mm)	Wall Thickness (mm)	Length (Meters)
100	113.0 - 113.3	7.0 - 7.90	3
115	125.0 - 125.3	7.5 - 8.50	3
125	140.0 - 140.4	8.0 - 9.0	3
150	165.0 - 165.4	9.5 - 10.7	3
175	200.0 - 200.5	11.8 - 13.6	3
200	225.0 - 225.5	13.0 - 14.8	3
250	280.0 - 280.5	16.0 - 17.6	3
300	330.0 - 330.6	19.0 - 21.0	3

COLUMN PIPES

Smooth flow. Long life.

Borewells with submersible pumps require column pipes through which water is pumped out from the underground sources. These pipes are fitted to the pumps and lowered to the level of pumpsets depending on how much water is required and the capacity of the pump to lift water. As the motor starts, water underneath rushes to the pump, which with the help of impellers fitted in the bowls along with centrifugal force, pumps the water upwards through the column pipes above the ground level.

Size	Type	Pressure	Delivery Head
25mm (1")	Silver	21kg/cm²	210m
25mm (1")	Gold	29kg/cm²	290m
25mm (1")	Diamond	33kg/cm²	330m
25mm (1")	S-12.5	12.5kg/cm²	125m
25mm (1")	S-15.0	15kg/cm²	150m
32mm (1¼")	Silver	21kg/cm²	210m
32mm (1¼")	Gold	25kg/cm²	250m
32mm (1¼")	Diamond	36kg/cm²	360m
32mm (1¼")	S-12.5	12.5kg/cm²	125m
32mm (1¼")	S-15.0	15kg/cm²	150m
40mm (1½")	Silver	19kg/cm²	190m
40mm (1½")	Gold	23kg/cm²	230m
40mm (1½")	Diamond	33kg/cm²	330m
50mm (2")	Gold	19kg/cm²	190m
50mm (2")	Diamond	26kg/cm²	260m
50mm (2")	Sp-heavy	35kg/cm²	350m
65mm (2½")	Gold	18kg/cm²	180m
65mm (2½")	Diamond	22kg/cm²	220m
65mm (2½")	Sp-heavy	35kg/cm²	350m
80mm (3")	Gold	17kg/cm²	170m
80mm (3")	Diamond	20kg/cm²	200m
80mm (3")	Sp-heavy	35kg/cm²	350m
100mm (4")	Gold	16kg/cm²	160m
100mm (4")	Diamond	18kg/cm²	180m
100mm (4")	Sp-heavy	35kg/cm²	350m

RIBBED STRAINER PIPES

SKIPPER PIPES

Better filtration. Anywhere.

These pipes are used for filtration of groundwater and are installed at a certain depth of the borewell pipeline where clean water is available. Ribbed Strainer Pipes are available in 1.8, 2 and 3m lengths. The fine gaps in these pipes work as a filter, which allows water to get in while restricting the pebbles, sand etc. That's why these pipes are also known as Filter Pipes.

Nominal Diameter		Outside Diameter	Wall Thick	Length
(Inch)	(mm)	(mm)	(mm)	(Meters)
1½"	40	52.0-52.2	3.5-4.0	1.8, 2 & 3
2"	50	64.0-64.2	4.0-4.6	1.8, 2 & 3
3"	80	92.0-92.3	4.0-4.6	1.8, 2 & 3
4"	100	117.0-117.3	5.0-5.7	1.8, 2 & 3
5"	125	144.0-144.4	6.5-7.3	1.8, 2 & 3
6"	150	169.0-169.4	7.5-8.5	1.8, 2 & 3
7"	175	204.0-204.5	8.8-9.8	1.8, 2 & 3
8"	200	229.0-229.5	10.0-11.2	1.8, 2 & 3

AGRICULTURE
PIPES

Ultimate Endurance. Superb Flow.

Skipper Agriculture Pipes are made with superior quality UPVC pipes and are specially designed to withstand harsh weather conditions be it sun, rain or snow. Tough and long-lasting, Skipper Irrigation Pipes conform to IS 4985 and come with easy-to-fit fittings and solvent cement. No matter how far your field is, Skipper Irrigation Pipes makes sure you get a constant flow of water.

Outside Diameter	Class 1 2.5 kg/cm²	Class 2 4.0 kg/cm²	Class 3 6.0 kg/cm²	Class 4 8.0 kg/cm²	Class 5 10.0 kg/cm²
(mm)	Wall thick (mm)	Wall thick (mm)	Wall thick (mm)	Wall thick (mm)	Wall thick (mm)
40	NA	NA	1.4-1.8	1.8-2.2	2.2-2.7
50	NA	NA	1.7-2.2	2.3-2.8	2.8-3.3
63	NA	1.5-1.9	2.2-2.7	2.8-3.3	3.5-4.1
75	NA	1.8-2.2	2.6-3.1	3.4-4.0	4.2-4.9
90	1.3-1.7	2.1-2.6	3.1-3.7	4.0-4.6	5.0-5.7
110	1.6-2.0	2.5-3.0	3.7-4.3	4.9-5.6	6.1-7.1
125	1.8-2.2	2.9-3.4	4.3-5.0	5.6-6.4	6.9-8.0
140	2.0-2.4	3.2-3.8	4.8-5.5	6.3-7.3	7.7-8.9
160	2.3-2.8	3.7-4.3	5.4-6.2	7.2-8.3	8.8-10.2
180	2.6-3.1	4.2-4.9	6.1-7.1	8.0-9.2	9.9-11.4
200	2.9-3.4	4.6-5.3	6.8-7.9	8.9-10.3	11.0-12.7
225	3.3-3.9	5.2-6.0	7.6-8.8	10.0-11.5	12.4-14.3
250	3.6-4.2	5.7-6.5	8.5-9.8	11.2-12.9	13.8-15.9
280	4.1-4.8	6.4-7.4	9.5-11.0	12.5-14.4	15.4-17.8
315	4.6-5.3	7.2-8.3	10.7-12.4	14.0-16.1	17.3-19.9

BOREWELL FAQ'S

What are the common methods adopted for drilling borewells?

Methods of drilling vary with geological formation (such as alluvial, bouldery and hard rock), cost factors, diameter and depth of borewell and the purpose intended. Most commonly used types of drilling methods are:

Water Jetting - Shallow bores in alluvial formation.
Augur Drilling - Shallow bores in alluvial formation.
Calyx Drilling - Shallow borewells in both hard rock and alluvial formation.
Percussion Drilling - Deep bores in bouldery formation.
Rotary Drilling - Most common method used for drilling large and deep bores in alluvial formations.
Down the Hole Hammering (DTH) Drilling - Most common method for drilling large and deep borewells in hard rock formations.

What is the standard diameter of borewells drilled for domestic purposes?

For domestic purposes, 4.5 and 6 inch dia borewells are usually drilled. While 4.5 inch is most commonly drilled for domestic purposes, 6 inch borewells are drilled when higher yield is required for large apartments or buildings and also for agricultural purposes. Initially larger diameter bits are used to place the casing pipes up to the hard rock zone prior to drilling the specified size of the borewell.

How to choose a right type and capacity of pump for a borewell?

Capacity of the pump to be chosen depends on the depth at which the pump/foot valve is to be installed and the desired discharge. The depth at which the pump is to be installed is based on the total depth of the borewell, (usually 10-25 feet above total depth of pumps).

TIPS FOR BETTER BOREWELLS

ENSURE BOREWELL SUITABILITY:

- Check the quality of water.
- Is the bore straight?
- Is the bore correctly cased?
- Has the bore got a sand screen?
- Does the bore have sufficient capacity to suit the pump?
- Check the burst pressure of the pipe to make sure that it is compatible with the pump pressure.

ENSURE CORRECT PUMP OPERATION

- Pump should not be installed in water which is over 40°C.
- Direction of rotation of pump must be checked prior to installing the bore. Pump should run anti-clockwise when looking down on pump. Should direction be wrong, change any 2 leads at termination box. Motor should be protected with the recommended thermal overloads.
- Use correct size of cable.
- The bore must be developed or rehabilitated and be producing clean water prior to installation.
- If the pump is being used as a pressure system, use the recommended pressure tanks and do not allow pump to short cycle.
- Do not run pump dry.
- Pump is not suitable for use in some types of corrosive water. (If unsure, have water tested and seek advice)
- If the pump is throttled back to less than 0.5lps, then an Auto Control Box with water level monitoring probes must be used instead of the standard switch.
- Pump should be installed using a suitable support cable.
- Starting voltage and frequency settings of the pump must be correct.

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