SKIPPER
PIPES

PRODUCT PORTFOLIO

Complete Polymer Piping Systems

SKIPPER
PIPES

CONTENTS

SKIPPER
CPVC Pipes

made from

Durastream™
CPVC COMPOUND

The Name you can Trust

Over the last three decades, Skipper Limited , an INR 1800 Cr approx. company, has remained synonymous with quality in piping and fitting solutions. Meticulous R&D and latest technology has made Skipper the invincible option to all plumbing needs ~ Hot or Cold water, inlet or drainage.

Skipper's Giant Leap

A revolution in the plumbing sector is Skipper's tie-up with SEKISUI Chemicals of Japan. Skipper now uses SEKISUI's universally acclaimed CPVC compound Durastream to manufacture pipes and fittings, matching international standards.

* CPVC pipes are NSF certified
* DURASTREAM is registered trade mark of SEKISUI CHEMICAL CO., LTD. JAPAN

THE PIPE WITH ADVANTAGE

QUALITY

- Conforms to IS 15778 for pipes and ASTM D 2846 for Pipes and fittings.
- CPVC pipes are popular and trusted for their heat resistant properties, compared to PVC and cast-iron pipes.
- CPVC also has high insulation properties and is neutral to rusting and corrosion.
- CPVC has a track record of extended use stretching up to 50 years.

LOW CONSTRUCTION COST

- CPVC pipes are joined at a lower cost compared to cast-iron pipes.
- The process is also quick and easy, reducing project time.

SPECIALISED APPLICATIONS

- CPVC pipes are highly superior on both quality, performance and highly effective in various applications that require heat, flame and chemical resistance along with higher mechanical strength.
- CPVC compounds are attracting attention as the mainstream heat–pipe material of the future.

PERFORMANCE

Durastream is a patented technology of SEKISUI that boasts superior formability and high productivity as it uses highly thermo-stable CPVC arising from SEKISUI Chemical's unique chlorination process. Only highly reliable components that suit customer's needs are selected for the formulated design of SEKISUI Chemical's CPVC Resin. It comes with additives like heat stabilizer, lubricant, impact modifier, filler and pigment.

CREDIBILITY

Durastream made by SEKISUI chemicals of Japan is heat resistant, flame resistant and has high mechanical strength. It has received certification from National Sanitation Foundation. NSF has also verified Durastream as safe in human environments (Certified to NSF 61 / NSF 14 standard).

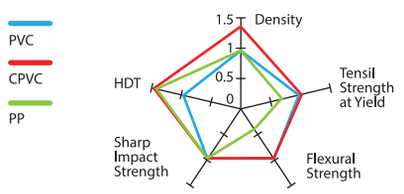
CPVC PIPES & FITTINGS

Durastream™
CPVC COMPOUND

A unique raw material resin manufacturing technologies

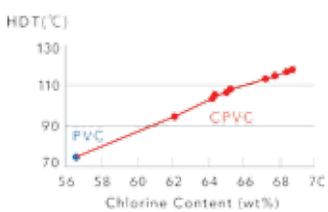
CPVC is obtained by adding chlorine to PVC. SEKISUI Chemical's unique PVC polymerization and chlorination technology (heat chlorination manufacturing method) make it possible to manufacture chlorinated polyvinyl chloride of superior quality.

Superior mechanical strength



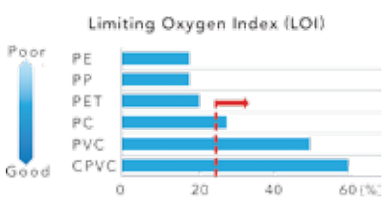
CPVC can be used for hot-water supply pipes up to 83°C, and it boasts high tensile strength even under high temperatures.

Heat resistance



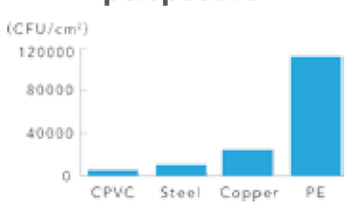
CPVC's heat resistance is improved as a result of adding chlorine.

Superior flame resistance



CPVC is a self-extinguishing resin, and when compared to other plastic ingredients it is a highly flame resistant & low smoke - producing material.

Superior from a hygiene perspective



When compared to other pipe material products, CPVC inhibits bacterial growth in the most effective manner. No bacterial growth is observed within 120 days in water piping.

APPLICATIONS

CPVC Pipes

Ideal for use in Hot & Cold water applications in

- Individual homes
- Residential apartments
- Office complexes
- Commercial buildings
- Hotels
- Hospitals

HALLMARK OF INTERNATIONAL QUALITY

SEKISUI Chemicals of Japan is a CPVC supplier that undertakes every step from PVC polymerization to manufacturing and selling the finished product, such as pipes in their local markets. Durastream is the brand for SEKISUI's new CPVC compound.

SEKISUI Chemicals of Japan began producing CPVC around 40 years ago. CPVC is a result of sophisticated technology, unmatched expertise and quality control in which SEKISUI has excelled over a long period of time.

ISO 9001 Certified

SKIPPER PIPES

"FIXED FOR LIFE"

UPVC

Lead Free Plumbing Pipes & Fittings

Ideal for Potable Water Distribution

LEAD FREE

- *Economical Installation*
- *Lead Free*
- *Anti-Contamination*
- *Thermoplastic Material*
- *Anti-Fungal / Anti-Algae*

Ultimate endurance for superflow performance

Complete Solutions for Potable Water

Skipper high pressure UPVC solvent weld plumbing systems are the most suitable, easy and economical solutions for transportation and distribution of potable water. Not only is it easy to install, but is 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. UPVC pipes and fittings is one of the world's most sustainable products, making it ideal for long term use in underground infrastructure. It requires less energy and fewer resources to manufacture than the old technology materials, and its production creates virtually no waste.

Clean and safe Manufacturing

The making of a UPVC pipe takes four times less energy as compared to concrete pipe, and half time compared to iron pipe. The manufacturing procedure of UPVC Pipes is extremely efficient, where virtually 100% of the UPVC compound is being in use.

There are absolutely no smoke stacks at UPVC pipe facilities and the product is completely recyclable. This has made UPVC Pipes environmental footprint far smaller than any other competing piping materials. It has huge contrast with the cement industry which is the third largest emitter of greenhouse gases in the world.

UPVC PIPES & FITTINGS

Applications of UPVC Pipes

- Potable water supply schemes
- Domestic & industrial plumbing
- SWR (Soil, Waste and Rain Water)
- Drainage Systems
- Lift & Gravity Irrigation Systems
- Agriculture Pump set
- Rising Main & Distribution Lines
- Casing & Column pipes for Borewell applications

DIMENSIONS AS PER ASTM-D-1785

SIZE	AVERAGE OUTSIDE DIAMETER		SCHEDULE-40 WALL THICKNESS		SCHEDULE-80 WALL THICKNESS	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
½"	21.24	21.44	2.77	3.28	3.73	4.24
¾"	26.57	26.77	2.87	3.38	3.91	4.42
1"	33.27	33.53	3.38	3.89	4.55	5.08
1¼"	42.03	42.29	3.56	4.07	4.85	5.43
1½"	48.11	48.41	3.68	4.19	5.08	5.69
2"	60.17	60.47	3.91	4.42	5.54	6.20
2½"	72.84	73.20	5.16	5.77	7.01	7.85
3"	88.70	89.10	5.49	6.15	7.62	8.53
4"	114.07	114.53	6.02	6.73	8.56	9.58
5"	141.05	141.55	6.55	7.34	9.52	10.66
6"	168.00	168.58	7.11	7.97	10.97	12.29
8"	218.70	219.46	8.18	9.17	12.70	14.22

UPVC Pipes: Miles Ahead

The physical, chemical and mechanical properties of the UPVC Pipes and fittings demonstrate their superiority in utility and applications over conventional materials. These pipes and fittings exhibit excellent resistance to aggressive environments both naturally occurring and as a result of industrial activity. They are resistant to almost all types of corrosion, either chemical or electrochemical in nature. UPVC is a non-conductor, therefore galvanic and electro chemical effects do not occur in the UPVC Pipes.

Because of the non-metallic nature, the material used is totally resistant to all forms of metallic corrosion. Aggressive water resulting from high sulphate soils and high hardness water will not attack UPVC Pipes.

Density: PVC has a density of approximately 1.4g/cm3. Therefore, it is less than 1/6th the weight of cast iron and steel, making it much cheaper to transport and easier to handle during installation.

Mechanical Strength: UPVC Pipes are high in impact strength and rigid with an ultimate tensile stress of approximately minimum 45 MPa at 27 deg Celcius and is resistant to most chemicals. The high inherent mechanical strength of UPVC Pipes makes them suitable even in varying conditions.

Hygienic: UPVC Pipes offer one of the most hygienic means of fluid transportation. They are resistant to attack by fungi and are not subject to contamination. The inside surface is extremely smooth and does not support any growth, encrustation or fuming and no odour or taste is transmitted to the fluid being conveyed. This property is of prime importance for the transportation of potable water to towns and villages.

Hydraulic Resistance and Flow Characteristics: UPVC Pipes, due to their smooth inner surface area allow a greater flow of water than an identical size of conventional piping.

Chemical resistance: UPVC is unaffected by most concentrations of acids, alkalis, organic chemicals, oils and fats. This resistance to corrosion by most chemicals makes UPVC Pipes indispensable for contemporary applications in various sectors of industry and for sewerage.

Flexibility: Being a thermoplastic material, UPVC is better able to withstand deformation in shape due to earth movements.

Fire resistance: UPVC Pipes have proved time and again that they are self-extinguishing and do not support combustion. They are, therefore, ideally suited for use in buildings and other constructions.

SKIPPER PIPES

"FIXED FOR LIFE"

ISO 9001 Certified

SKIPPER magik flow™ PLUS

SWR Exterior Pipes

Advanced Ring Fit Technology

The all new Skipper SWR pipes with better performance ensure smooth flow. It is manufactured with an advanced moulding technology, preventing leaks, and survives high pressure flow. The blue rubber ring holds the channel together and thwarts it from slipping out during installation. No use of solvent cements any longer, it is a money saver.

SWR PIPES & FITTINGS

A Glimpse of the Product

Skipper Limited is one of the leading names, an INR 16 Billion company, producing one of the best ranges of SWR Drainage and Sewerage Systems with a smooth finishing that allows free flow ensuring better performance. Skipper Magikflow Plus SWR Pipes and Fittings are highly recommended for residential, office, hotel and commercial use. These piping systems are efficiently used for removal of waste without any blockage and damage. Used for drainage systems at public places such as stations, airports, hospitals and theatres. SWR systems are also available as SWR Lite for lighter applications. Being highly resistant to all kinds of harmful chemicals and corrosion, the pipes offer long lasting and durable services. The product is available in the market in both push as well as ring system. 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. Magikflow Plus ensures a long life span as it is resistant to dust, rust & Ultra Violet radiation and most harmful chemical reactions. The pipes conform to IS: 13592 whereas the fittings conform to IS: 14735 and perform better than any other products available in the market.
Various traps and special fittings make the system complete in every respect.

Salient Features of the product

- It can withstand very high pressure flow rates.
- Leak free joints can be ensured with PE reinforced Rubber Ring that holds into the groove properly.
- Uncompromising Quality Control.
- Installation is fast and simple.
- Thermal expansion resistant.
- Manufactured with advanced co-moulding technology.
- The blue rubber ring holds the groove perfectly, unlike conventional rubber rings; it never slips out of the grove during installation. This ensures perfect joints.
- Flow rates are high-there is no choking.
- Perfect and accurate dimensional control.

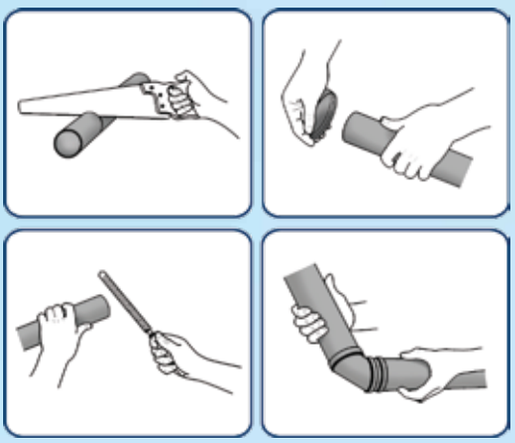
SKIPPER
magik™ flow PLUS
SWR Exterior Pipes

Magikflow Plus 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

Jointing instructions

- The pipe and socket should be clean and dry.
- In the socket, the sealing ring should be placed evenly.
- Use a fine toothed handsaw if it is necessary to cut the pipe.
- A chamfer, similar to the factory produced chamfer, is very essential on the supplied pipes, before any attempts of joining.
- For smooth installation, the rubber lubricant should be used.
- Keep the pipes in a straight line and push the spigot into the socket with a light twisting motion.
- Door caps should not be over tightened.
- Cut the pipes straight to avoid any leakage.



Fittings for SWR Pipes

Skipper SWR fittings are versatile, and manufactured in adherence to the highest standards in the industry. Skipper Pipes produce a wide range of SWR fittings that are built for all SWR applications. These fittings are completely leak proof and ensure proper flow from one pipe to another.

ISO 9001 Certified

ORR TECHNOLOGY

SKIPPER PIPES

"FIXED FOR LIFE"

SUPERIOR QUALITY UNDERGROUND DRAINAGE PIPES

The Name you can trust

Skipper, an INR 16 Billion company, has remained synonymous with quality in piping and fitting solutions. Meticulous Research and Development and leading technology has made Skipper the invincible option to all plumbing needs-hot or cold water, inlet or drainage system

Salient features of the Drainage pipes

- Manufactured to International specifications and conforms to IS 15328.
- Resistant to Rodent.
- Smooth finish with aesthetic appeal.
- 100% recyclable
- High stiffness strength.
- High impact resistance strength.
- Joints are leak proof and odour proof.
- Cost effective.
- Economical and durable.
- Available with both plain socket cement joints and elasto-meric sealing ring socket joints.
- Complete range from 63mm to 315 mm.

IS :15328

CM/L-5100091379

UGD PIPES & FITTINGS

PRODUCT

Skipper Unplasticized Polyvinyl Chloride (PVC-U) Pipes are for use in underground drainage and sewerage systems conforming to IS 15328.

AVAILABILITY

The drainage pipes are available in self-socketed type joints that are joined with the help of solvent cement (cold welding) and Elastomeric Sealing Ring Type joints. Elastomeric Sealing Ring type sockets are designed in such a way that there is no possibility of the ring being dislodged during jointing.

CLASSIFICATION

The drainage pipes are classified as per Standard Dimensions Ratio of pipe series and Ring Stiffness as per dimension table given below:

Nominal Size	Mean Outside Diameter		Outside Diameter at any point		Wall Thickness					
					SN-2 / SDR-51 / S-25		SN-4 / SDR-41 / S-20		SN-8 / SDR-34 / S-16.5	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
63 MM	63.0	63.3	62.2	63.8	***	***	***	***	2.7	3.1
75 MM	75.0	75.3	75.3	75.9	***	***	***	***	2.8	3.3
90 MM	90.0	90.3	88.9	91.2	***	***	***	***	2.9	3.4
110 MM	110.0	110.4	108.6	111.4	***	***	***	***	3.2	3.7
125 MM	125.0	125.4	123.5	126.5	***	***	3.2	3.7	3.7	4.4
160 MM	160.0	160.5	158.0	162.0	3.2	3.7	4	4.6	4.7	5.4
200 MM	200.0	200.6	197.6	202.4	3.9	4.5	4.9	5.6	5.9	6.7
250 MM	250.0	250.8	247.0	253.0	4.9	5.6	6.2	7	7.3	8.3
315 MM	315.0	316.0	311.2	318.8	6.2	7	7.7	8.7	9.2	10.4

* SDR is numerical designation of a pipe series, a ratio of minimum diameter to minimum wall thickness. Nominal Ring Stiffness of a pipe or fitting is minimum required stiffness in Kilo Newtons per square meter.

Skipper Pipes offers economical, high performance drainage systems to meet the demanding needs of today's drain and sewer market. Their overall flexibility ensures that Skipper Pipes can supply every domestic and commercial requirement for any wastage and sewer water drainage. The strong range of drainage accessories are designed to meet the needs of the most stringent building regulations. They are not only easy to install, but are very cost effective.

FIELDS OF APPLICATION

The new product range from the leader of the industry are used in commercial complexes, residential projects, hospitals, shopping malls, resorts, schools and academic institutions and in industries, etc.

Complete Range of Agriculture and Borewell Pipes & Fittings

Skipper Agricultural Pipes

The best solution for perfect irrigation

The Skipper brand of Rigid PVC Pipes come under class 1,2,3,4 and 5 with water pressure capacity being 2.5kg/cm2, 4kg/cm2,6kg/cm2, 8kg/cm2 and 10kg/cm2 respectively.
Rigid pipes conform to IS 4958 and Fittings conform to IS 10124

SKIPPER BOREWELL & COLUMN PIPES

Extra load at extra depth for better filtration
CD & CS, Ribbed Stainer and Column Pipes

CD/CM/CS/Ribbed Stainer Pipes conform to IS:12818

Skipper Borewell Pipes perform well at great depths and are preferred products for being non-reactive to corrosion and bacteria or fungal build up. Casing Shallow (CS) Pipes are suitable for wells up to depths of 80m. Casing Medium (CM) Pipes are suitable for wells with depths above 80m and up to 250m. Casing Deep (CD) Pipes for depths up to 450m. Skipper brand PVC Ribbed Stainer pipes are available in 1.8, 2 and 3m lengths. These pipes are used for filtration of groundwater and are installed at that depth of the boring pipeline where clean water is available. Skipper Column Pipes are made to fit in extra depths and sustain the load deep under. These pipes are used for transmission of water from a submersible pump towards the desired source.

SKIPPER
PIPES

HEAVY DUTY
HIGH STRENGTH

Low VOC FORMULA

World Class CPVC Solvent Cement with 3 years shelf life!

Skipper Pipes has been a symbol of quality in piping and fitting solutions for over 3 decades. At Skipper, perfection is not a destination but a journey. Skipper Pipes brings before you World class CPVC Solvent Cement with 3 years of shelf life. This exclusive product from the leader of the market assures quality at its best.

MADE IN USA

NSF

50th ANNIVERSARY E-Z WELD

Specifications:

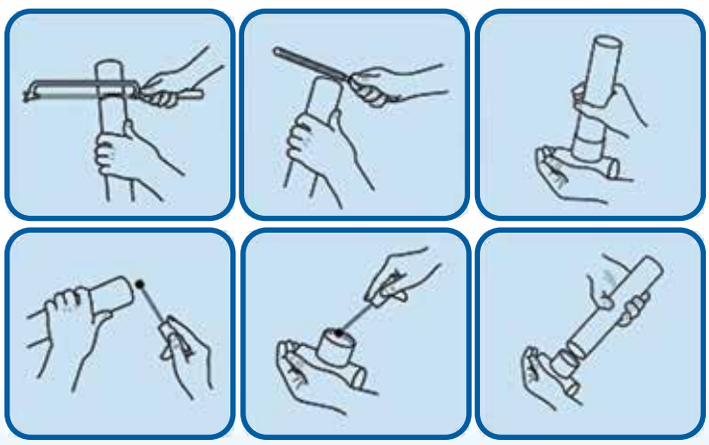
- One-step cement to be used without primers, if the local codes permit.
- Formulated for total compatibility with CPVC Pipes and fittings.
- The best product of the market has yellow, low –voc medium body. It is fast set CPVC cement for copper tube size (CTS) CPVC hot & cold potable water pipe and fittings up to 2" (55mm) diameter interference fit.
- This solvent cement is recommended for residential and commercial hot and cold water systems up to 180°F (82°C).
- The recommended application temperature is 32°F to 110°F/ 0°C to 43°C.
- Meets the standard – ASTM F-493 and ASTM D- 2846.
- Promises 3 year shelf Life- Unopened Can.
- Can Sizes: 4 oz/ 118 ml, 8 oz/ 237 ml, 16 oz/ 473 ml, 32 oz/ 946 ml, 2 oz / 59 ml can, 2 oz/ 59 ml tube (Made to Order).

SOLVENT CEMENT

APPLICATION

This solvent cement is approved for use on hot (up to 180°F) & cold water pressure system. It can be used without a primer wherever the local code permits. Not only this, it may be used for non-pressure applications such as waste, drain, vent, gas, sewer conduit, etc.
It is not recommended to use the solvent cement if it is stringy or jelly like.
Please follow the instructions on the label of the can:
Application temperature: 32°F to 110°F
Storage temperature: 45°F to 110°F
The ASTM has developed the following schedule and it may be used as a guide (for relative humidity 60% or less.Sch.40 size pipe.) e.g. a 2" pipe size joint made at 55°F, 50% Relative Humidity and a test pressure of 100 psi would require a cure time of 4 hours.

HEAVY DUTY
HIGH STRENGTH
Low VOC FORMULA



PHYSICAL PROPERTIES

- Colour : Gold / Yellow
- Body : Medium
- Set : Fast
- Shelf Life : 3 years-unopened can

CERTIFICATION/INDUSTRY LISTINGS

This product is certified, tested and approved by the NSF International and can be used in potable (drinking) water pressure applications & non-pressure applications such as drain, waste and vent system. The solvent cement meets ASTM Standard F-493.

QUALITY ASSURANCE

Every batch of solvent cement can is carefully checked and monitored to ensure high quality standards. Records and samples of each and every batch of solvent cement are kept for at least one year. Ingredients are purchased from trusted and approved suppliers. The tests are performed in accordance with ASTM standard F-493.
HYDROSTATIC BURST STRENGTH
400 psi after 2 hour cure time at 73°F
200 psi after 2 hour time at 180°F

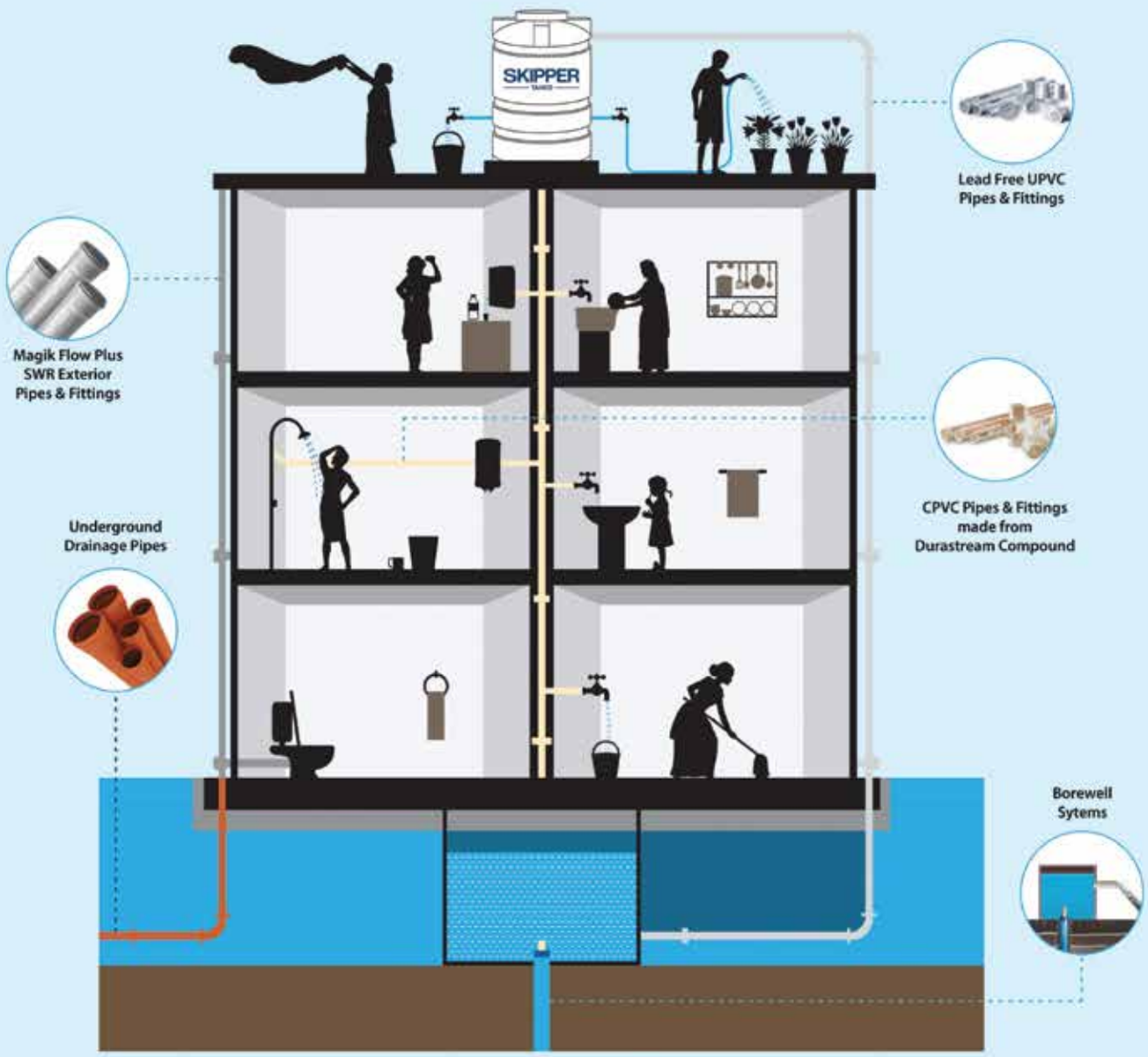
Premium Quality
HEAVY DUTY
HIGH STRENGTH
Low VOC FORMULA

UPVC SOLVENT CEMENT

**HIGH STRENGTH FORMULA FOR INDUSTRIAL,
IRRIGATION ▪ ELECTRICAL CONDUIT ▪ POOL AND PLUMBING
INCLUDING PVC FOAM CORE PIPE & UPVC FITTINGS**

SKIPPER
PIPES

Take Water Everywhere



AN ISO 9001 CERTIFIED COMPANY

MARKED PIPES & FITTINGS | ORR TECHNOLOGY

SKIPPER PIPES

FIXED FOR LIFE

COMPLETE RANGE OF PVC PIPES AND FITTINGS WITH BATH ACCESSORIES

SKIPPER Bravo
BATH FITTINGS — Clean & Fresh

SINGLE FLUSH

Available Colours
☐ White ☐ Ivory ☐ Pink
☐ Blue ☐ Green

- Anti-Bacterial Knob
- Made of High Quality 100% Virgin Poly Propylene
- 10 Ltrs Capacity Can Adjust to 6 Ltrs (Water Saving)
- Robust Fill valve to withstand High water Pressure
- Easy and Trouble free operation.
- Aesthetically designed
- Efficient Flushing Mechanism
- Body – Polypropylene

DUAL FLUSH

Available Colours
☐ White ☐ Ivory

PREMIUM QUALITY

GERM FREE ANTI-BACTERIAL Clean & Fresh HAPPY LIVING

SEAT COVER

Available Colours
☐ White ☐ Ivory ☐ Pink
☐ Blue ☐ Green

- Fits all European Water Closets
- Hygienic
- High Quality Poly Propylene
- Easy to Clean
- Body – Polypropylene
- Fitment: Easy fitted to EWC

PREMIUM SEAT COVER

Available Colours
☐ White ☐ Ivory

PREMIUM QUALITY

1800 120 6842 enquiry@skipperlimited.com

www.skipperpipes.in

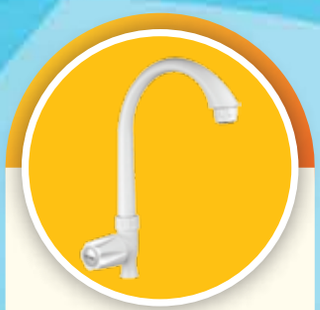
SKIPPER Flow
BATH FITTINGS

2 WAY BIB TAP

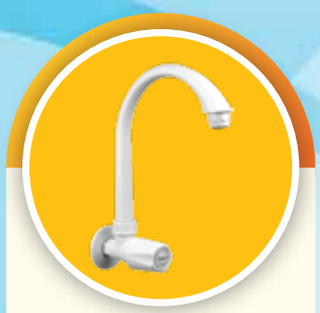
2 WAY ANGLE VALVE

PILLAR TAP

ANGLE VALVE



SWAN NECK
(Table Mounted)



SINK COCK
(Wall Mounted)

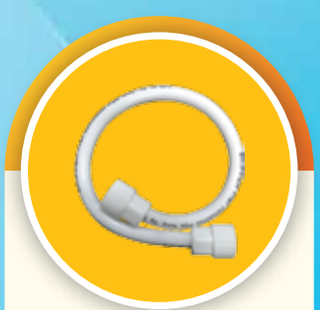
BIB TAP
(Short Body)

BIB TAP
(Long Body)

HEALTH FAUCET
(Connecting Tube)

BATH SHOWER
(With Arm)

CONNECTING PIPE
SS-304 EPDM TUBE (BRASS)



CONNECTING PIPE
(PTMT)

Products are Quarter Turn Flanges are available as an accessory with the products

Terms & Conditions

- Above prices are ex-works
- GST as applicable
- Prices, discounts & terms and conditions are subject to change without any prior notice
- Price prevailing at the time of dispatch will be applicable
- All disputes are subject to Kolkata court jurisdiction only

"Products are indicative in nature"

1800 120 6842 enquiry@skipperlimited.com www.skipperpipes.in

Complete range of Pipes & Fittings

CPVC | UPVC | SWR | UGD | BOREWELL | AGRICULTURE

Toll Free:1800 120 6842

SKIPPER
PIPES

SKIPPER LIMITED
3A, Loudon Street, Kolkata-700017, West Bengal, India
PH.: 90512 12345 | Email:mail@skipperlimited.com | www.skipperlimited.com

WORKS
Guwahati (Assam) | Uluberia (West Bengal)