MARKED PIPES & FITTINGS

SKIPPER PIPES

INDIA'S SAFEST PIPES

PROGRESS IN THE PIPELINE

Precision in Every Joint, Excellence in Every Flow

SKIPPER FlowSafe™

CPVC with TempRite® Technology

POWERED BY — **Lubrizol**

Now more durable and safe

NSF
CERTIFIED TO NSF/ANSI/CAN 61

CPVC

Premium Pipes & Fittings

Ideal for Hot & Cold Water Plumbing

UPTO 95°

QUALITY
YOU CAN TRUST
FOR LIFE

Made of the world's best
Compound and certified by NSF

Certified to
NSF/ANSI/CAN 61

NSF

NSF is a leading not for profit organization from USA, providing testing, inspection and certification to public health, safety and environmental standards in major industries and sectors worldwide.

Skipper uses NSF-certified CPVC compound to manufacture its NSF/ANSI/CAN 61 certified pipes.

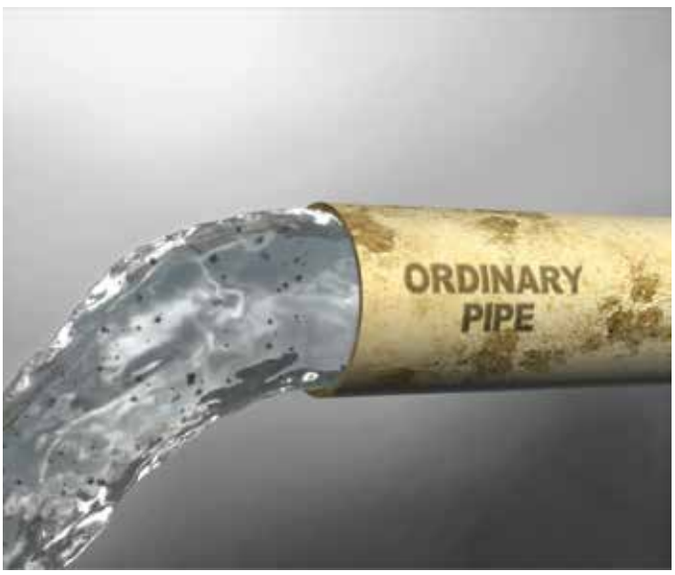
By being listed by NSF, Skipper ensures that its pipes are not leaching unwanted and potentially dangerous compounds to the distributed water, such as lead, contributing therefore to its safety.

Skipper CPVC Pipes also comply with NSF/ANSI/CAN 61 health effects requirements when tested at up to Commercial Hot temperatures (95° centigrade).

Skipper CPVC Pipes are, furthermore, certified to NSF/ANSI 372 and conform to the lead content requirements for “lead free” plumbing as defined by the U.S. Safe Drinking Water Act.

The NSF mark, present on Skipper CPVC Pipes, assures that the products have been thoroughly tested by a trusted independent certification organization, which is valued by consumers and retailers internationally.

NSF certification assures you the highest quality of hygiene standards.



IMPORTANCE OF LEAD FREE WATER

LEAD FREE

WHY LEAD IS HARMFUL IN POTABLE WATER

- If water is supplied through lead pipes or pipes joined with lead solder, it runs the risk of containing lead.
- Waterborne diseases in India, caused by contaminated water, can become life-threatening, especially for children under the age of five, pregnant women, and people with weak immune systems.
- Drinking contaminated water can also lead to the ingestion and accumulation of harmful chemicals and heavy metals, such as lead, arsenic, and mercury, in the body, which can cause adverse health effects from developmental problems in children to neurological disorders or cancer in adults.
- Presence of Lead in water leads to kidney damage, anaemia, and high blood pressure
- PVC pipes continue to remain one of the best options for delivering safe and healthy drinking water to our doorsteps and is widely in use now
- However, having the NSF certification mark on PVC pipes is an assurance to consumers, retailers and regulators that the certified products are the safest for consumption
- 100% Lead Free pipes should be the mantra and its heartening to see a well-known brand is aggressively promoting and distributing it.
- Let us not forget that access to clean drinking water is a fundamental human right, and governments and stakeholders in India must take urgent action to address the issue.

WHAT IS CPVC?

Chlorinated polyvinyl chloride, a thermoplastic material derived from PVC that's been further chlorinated, making it more durable, resistant to heat and chemicals, and suitable for applications like plumbing. CPVC is the first choice of material for potable water supply and is in use across the world for more than 50 years. It is ideal for use in hot and cold water applications in villas and individual homes, residential apartments, office complexes, commercial buildings, hotels and hospitals.

CPVC ARE THE FOLLOWING ADVANTAGES AGAINST OTHER PIPING MATERIALS:

LOWEST BACTERIAL GROWTH
As compared to other piping systems (steel, copper, polypropylene, other thermoplastics) the bacterial growth in Skipper CPVC is much lower.

NO CORROSION, LEAKAGE, SCALING AND PITTING
Skipper CPVC has excellent corrosion resistance, preventing contamination, bad taste, bad odour and discoloration of the water. With CPVC there is no corrosive by - product ensuring the purest form of water to the very last drop. CPVC systems are unaffected by the low pH of water, coastal air or corrosive soils.

FIRE RETARDANT
Characteristic of Skipper CPVC is its outstanding fire safety profile. It will not burn unless an external flame source is present and will not sustain ignition once the flame source is removed.

LIMITING OXYGEN INDEX (LOI)
It must be forced to burn due to its very high Limiting Oxygen Index (LOI) of 60. LOI is the percentage of oxygen needed in an atmosphere to support combustion. Since the Earth's atmosphere contains only 21% oxygen, CPVC will not burn unless a flame is constantly applied, and stops burning when the ignition source is removed.

FEATURES & BENEFITS

- High Heat Resistance
- Superior Mechanical Strength
- Great Flame Resistance
- Excellent Chemical Resistance
- UV Resistance
- Less shrinkage with Elevated Temperature
- Anti Corrosion
- Superior from the Hygiene Perspective
- Relatively Low Cost
- Maintenance Free
- Leak Proof Joints

PROPERTY	SKIPPER CPVC	COPPER	GI	PPR
Corrosion	No effect due to excellent chemical resistance	Will corrode over a period of time	Corrodes faster and deteriorates	Has a certain amount of chemical resistance
Scaling, Pitting and Leaching	Absence of scaling, pittings and leaching leads to full bore flow	Scaling, pitting and leaching leads to reduced bore flow	Severe scaling, pitting and leaching leads to reduced bore flow	Scaling, pitting and leaching can occur and reduce bore flow in some instances
Thermal conductivity and insulation levels	Lower thermal conductivity reduces heat loss and requires reduced insulation levels	Very high thermal conductivity increases heat loss and requires high insulation	Very high thermal conductivity increases heat loss and requires high insulation levels	Higher thermal conductivity than CPVC, leading to heat loss and requires higher Insulation levels.
Bacterial growth	Extremely low	More than CPVC	More than copper	More than CPVC
Fire Resistance	LOI of is 60% and hence does not catch fire or sustain burning	Being metallic, better Fire Resistance	Being metallic, better Fire Resistance	LOI is 18%, hence can easily catch fire and sustain burning
Installation	Easy. Through cold welding, requiring less manhours. No electric / heat source required. Hence cost effective	Requires highly skilled manpower and electric / heat source	Very slow and cumbersome. Requires more man hours	Jbinting process is by heat fusion. Requires greater skill and electric/ heat source
Leakage	Leakfree installation for the entire life span of the piping system	Leakfree, provided carried out by highly trained manpower	Always susceptible to leakage from day one of installation	Relatively leak free if highly skilled manpower is employed
Thermal Expansion	Lower. Leads to less pipe expansions, less looping and offsets	Although thermal expansion is lower, the stress induced is far greater.	Although thermal expansion is lower, the stress Induced is far greater	Higher expansion requires more looping/offsets
Range of Fittings	Wide range of fittings makes layout easier and compact for Architects, consultants, builders and end users	Limited range of fittings involves frequent cutting / welding to achieve the desired layout	Limited range of fittings	Nominal range of fittings
Special Tools	Simple cutter or saw blade and CPVC solvent cement Is adequate	Needs special tools like metal cutting flame torch, solder, flux, etc. to carry out the desired plumbing	Needs heavy tools for pipe cuttings and threading	Needs special electrical heater to achieve the desired hot welded joint.

THE SUPERIOR HOT/COLD WATER DISTRIBUTION SYSTEM

When you specify Skipper Cpvc pipes and fittings, you benefit from the most experienced installation and support network in the industry. Let us help you specify the pipes, fittings, solvent cement and installation technologies that meet your most stringent standards for reliability and performance.

Dimensional Details

Dimensional details and Pressure Ratings of SDR 11 (Class 1) CPVC Pipes as per IS 15778 : 2007

Nominal Size (inch)	Nominal Size (mm)	Mean Outside Diameter (mm) Avg.	Tolerance	Min. Wall Thickness (mm)	Max. Wall Thickness (mm)	Working Pressure at 27°C (kg/cm2)	Working Pressure at 27°C (MPA)	Working Pressure at 82°C (kg/cm2)	Working Pressure at 82°C (MPA)
½	15	15.90	±0.1	1.70	2.20	28.14	2.76	6.93	0.68
¾	20	22.20	±0.1	2.00	2.50	28.14	2.76	6.93	0.68
1	25	28.60	±0.1	2.60	3.10	28.14	2.76	6.93	0.68
1¼	32	34.90	±0.1	3.20	3.70	28.14	2.76	6.93	0.68
1½	40	41.30	±0.1	3.80	4.30	28.14	2.76	6.93	0.68
2	50	54.00	±0.1	4.90	5.50	28.14	2.76	6.93	0.68

Dimensional details and Pressure Ratings of SDR 13.5 (Class 2) CPVC Pipes as per IS 15778 : 2007

Nominal Size (inch)	Nominal Size (mm)	Mean Outside Diameter (mm) Avg.	Tolerance	Min. Wall Thickness (mm)	Max. Wall Thickness (mm)	Working Pressure at 27°C (kg/cm2)	Working Pressure at 27°C (MPA)	Working Pressure at 82°C (kg/cm2)	Working Pressure at 82°C (MPA)
½	15	15.90	±0.1	1.40	1.90	22.23	2.18	5.61	0.55
¾	20	22.20	±0.1	1.70	2.20	22.23	2.18	5.61	0.55
1	25	28.60	±0.1	2.10	2.60	22.23	2.18	5.61	0.55
1¼	32	34.90	±0.1	2.60	3.10	22.23	2.18	5.61	0.55
1½	40	41.30	±0.1	3.10	3.60	22.23	2.18	5.61	0.55
2	50	54.00	±0.1	4.00	4.60	22.23	2.18	5.61	0.55

Dimensional Details

Dimensional details of CPVC 4120 SCH. 40 Pipes with maximum water pressure rating as per ASTM F 441 : 2013

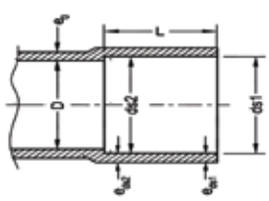
Nominal Size (inch)	Nominal Size (mm)	Outside Diameter (inch) Average	Outside Diameter (mm) Average	Tolerance (inch)	Tolerance (mm)	Wall Thickness (inch)	Wall Thickness (mm)	Tolerance (inch)	Tolerance (mm)	Pressure at 23°C PSI (kg/cm2)	Pressure at 83°C PSI (kg/cm2)
2½	65	2.875	73.00	±0.007	0.18	0.203	5.16	0.024	0.61	300 (21.09)	75 (5.27)
3	80	3.500	88.90	±0.008	0.20	0.216	5.49	0.026	0.66	260 (18.28)	65 (4.57)
4	100	4.500	114.30	±0.009	0.23	0.237	6.02	0.028	0.71	220 (15.47)	55 (3.87)
6	150	6.625	168.30	±0.011	0.28	0.280	7.11	0.034	0.86	180 (12.66)	45 (3.16)

Dimensional details of CPVC 4120 SCH. 80 Pipes with maximum water pressure rating as per ASTM F 441 : 2013

Nominal Size (inch)	Nominal Size (mm)	Outside Diameter (inch) Average	Outside Diameter (mm) Average	Tolerance (inch)	Tolerance (mm)	Wall Thickness (inch)	Wall Thickness (mm)	Tolerance (inch)	Tolerance (mm)	Pressure at 23°C PSI (kg/cm2)	Pressure at 83°C PSI (kg/cm2)
2½	65	2.875	73.00	±0.007	0.18	0.276	7.01	0.033	0.84	420 (29.53)	105 (7.38)
3	80	3.500	88.90	±0.008	0.20	0.300	7.62	0.036	0.91	370 (26.01)	90 (6.33)
4	100	4.500	114.30	±0.009	0.23	0.337	8.56	0.040	1.02	320 (22.49)	80 (5.62)
6	150	6.625	168.30	±0.011	0.28	0.432	10.97	0.052	1.32	280 (19.69)	70 (4.92)

Dimensional details of CPVC 4120 SCH. 80 Pipes with maximum water pressure rating as per ASTM F 441 : 2013

Nominal Size (inch)	Inside diameter of the socket at entry (ds1),mm	Tolerance on Nominal Diameter (mm)	Inside diameter of the socket at shoulder (ds2),mm	Tolerance on Nominal Diameter (mm)	Socket Length (mm) "L" min	Inside Diameter(mm)"D" min	Wall Thickness (mm), Socket Entrance "eds1" min.	Wall Thickness (mm), Sock et at Shoulder "eds2" min.	Wall Thickness (mm), "e0"
½	16.08	±0.08	15.72	±0.08	12.70	12.42	1.73	2.59	3.25
¾	22.45	±0.08	22.10	±0.08	17.78	18.16	2.03	2.59	3.25
1	28.83	±0.08	28.47	±0.08	22.86	23.39	2.59	2.59	3.25
1¼	35.20	±0.08	34.85	±0.08	27.94	28.58	3.18	3.18	3.96
1½	41.66	±0.10	41.20	±0.10	33.02	33.76	3.76	3.76	4.70
2	54.38	±0.10	53.92	±0.10	43.18	44.17	4.90	4.90	6.12



Dimensional Details

Socket dimensions for CPVC SCH: 80, Plastic Fittings As per ASTM F 439 : 2013

Nominal Size	Socket Entrance Diameter, inch	Diameter Tolerance	Socket Bottom Diameter, inch	Diameter Tolerance	Wall Thickness (mm), middle of socket SCH 80	Wall Thickness (mm), at beyond the socket SCH 80	G inch (mm) SCH 80	J inch (mm) SCH 80	N inch (mm) SCH 80
2½	2.889 (73.38)	±0.007 (±0.18)	2.868 (72.85)	±0.007 (±0.18)	0.276 (7.01)	0.345 (8.76)	1.50 (38.10)	0.69 (17.50)	0.19 (4.80)
3	3.516 (89.31)	±0.008 (±0.20)	3.492 (88.70)	±0.008 (±0.20)	0.300 (7.62)	0.375 (9.53)	1.81 (46.00)	0.75 (19.10)	0.19 (4.80)
4	4.518 (114.76)	±0.009 (±0.23)	4.491 (114.07)	±0.009 (±0.23)	0.337 (8.56)	0.420 (10.67)	2.31 (58.70)	1.0 (25.40)	0.19 (4.80)

Minimum Dimensions from Center to End of Socket (Laying Length) for CPVC 4120, SDR 11 Plastic Fittings As per ASTM D 2846 : 2011/IS 17546:2021

Nominal Size (inch)	"G" min. inch (mm)	"J" min. inch (mm)	"N" min. inch (mm)
½	0.382 (9.70)	0.183 (4.65)	0.102 (2.59)
¾	0.507 (12.88)	0.235 (5.97)	0.102 (2.59)
1	0.633 (16.08)	0.287 (7.29)	0.102 (2.59)
1¼	0.758 (19.25)	0.339 (8.61)	0.102 (2.59)
1½	0.884 (22.45)	0.391 (9.93)	0.102 (2.59)
2	1.134 (28.83)	0.495 (12.57)	0.102 (2.59)

**NSF mark available only for sizes ½" to 2" (15mm to 50mm) SDR11 & SDR 13.5

PIPES

DROP IMPACT TEST
Weights are dropped on the pipe to observe for any cracks or failures.

FLATTENING TEST
Assesses the pipe's durability and resistance to cracking & Ensures proper manufacturing processes were followed.

TENSILE STRENGTH
The maximum stress a pipe can withstand while being stretched or pulled

FITTINGS

STRESS RELIF STRESS
The test specimen shall not show blisters, excessive delamination or cracking or signs of weld line splitting

PIPES AND FITTINGS

HYDROSTATIC PRESSURE TEST AT 20°C AND 95°C:

Short term (Acceptance Test) at 27°C
Pipe should not burst or crack at the given test pressure for minimum of 1 hour.

Long term (Type Test) at 95°C
The pipe should not crack or burst at the given test pressure for a period of 165 hours or 1000 hours.

Thermal Stability at 95°C
The pipe shall not fail at the prescribed test pressure for a period of 8760 hours (1 year).

Burst Pressure Test
The pressure is applied to pipe & fitting till brust.

Visual Appearance
Pipes and fittings are uniform in colour and free visual effects such as black spot, scratches, burn marks etc.

Dimensions
To ensure that all pipes and fittings comply to the standard requirement.

Opacity
To check the opaqueness of pipe & fitting.

Vicat Softening Temperature
The temperature at which pipe & fitting are starting to soft.

Density
Density of pipes and fittings is to be determined mass per unit volume.

Malfunction Temperature Test at 95°C
An assembly of pipes and fittings should not leak or burst at 10 kg/cm2 internal pressure at a temperature of **95°C** for 1000 hours.

HANDLING AND STORAGE

HANDLING OF PIPES
When receiving pipes, it's essential to inspect them for potential damage. Here are some key points to consider.

Transport Damage: Check for signs of damage caused by shifting loads or improper handling during transportation.

Visual Inspection: Examine the pipe ends for cracks, dents, or other forms of damage. Handling Precautions: Avoid throwing, dropping, dragging, or pushing pipes, as this can cause damage.

Protection from Sharp Objects: Keep pipes away from sharp objects to prevent scratches or damage.

STORAGE OF PIPES
Proper storage is crucial for maintaining pipe quality. Key storage guidelines include:

Indoor Storage: Preferably store pipes indoors to protect them from environmental factors.

UV Protection: If outdoor storage is necessary, cover bundles to prevent sunlight exposure and UV damage.

Stacking Height: Limit stacking height to 7 feet to prevent damage and instability.

Stacking Technique: Alternatively, pipes can also be stacked with adjacent layers lying at right angles to each other to ensure stability and prevent damage.

Level Ground: Store pipes on level ground, free from sharp objects.

Pipe Placement: Store heavier pipes below lighter ones when stacking different classes together.

Dry Surface: Ensure the storage surface is dry to prevent damage or degradation.

INSTALLATION GUIDE OF SOLVENT CEMENT JOINT

Step 1: Cutting
Measure the pipe length accurately and make a visible marking using a felt tip pen. Ensure that the pipe and fittings are size compatible. You can easily cut with a plywood cutting saw/ ratchet cutter or a wheel cutter. Cutting the pipe as squarely as possible (at 90°) provides optimal bonding area within a joint. Inspect pipe ends thoroughly prior to making a joint. If a crack or splintering is noticed cut-off a minimum of 25 mm beyond the visible crack before proceeding.

Step 2: Deburring/Beveling
Burrs in and on pipe end can obstruct flow/proper contact between the pipe and socket of the fitting during assembly and should be removed from both in and outside of the pipe. A 15 mm dia half round file/a pen knife or a deburring tool are suitable for this purpose. A slight bevel on the end of the pipe will ease entry of the pipe into the socket of the fitting socket.

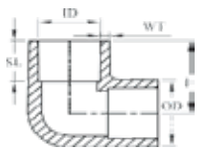
Step 3: Fitting Preparation
Using a clean dry rag, wipe the dirt and moisture from the fitting sockets and pipe end. Dry fit the pipe to ensure total entry into the bottom of the fittings socket and make a visible marking using a felt tip pen.

Step 4: One Step Solvent Cement Procedure
Use only Skipper CPVC Solvent cement conforming to ASTM F-493 to ensure a perfect solvent weld joint. When making a joint, apply an even coat of solvent cement at the end of the pipe and also inside the fitting socket. Do not use thickened or lumpy solvent cement. It should have a flow consistency like that of syrup or paint.

Step 5: Assembly
Immediately insert the pipe into the fitting socket, rotate the pipe 1/4 to 1/2 turn while inserting. This motion ensures an even distribution of solvent cement within the joint. Properly align the fittings as per patented alignment system shown with picture diagram on the right side. Hold the assembly for 30 seconds to allow the joint to setup and avoid push-out.

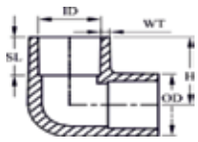
FITTINGS - DIMENSIONS

ELBOW 90° SDR 11



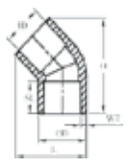
SIZE(INCH)	ID	OD	WT	SL	H
½"	16.08	-	2.59	12.70	-
¾"	22.45	27.00	2.59	17.78	31.00
1"	28.83	34.50	2.59	22.86	40.00
1¼"	35.20	41.60	3.18	27.94	47.00
1½"	41.66	49.00	3.76	33.02	55.50
2"	54.38	63.90	4.90	43.18	72.00

ELBOW 90° SCH 80



SIZE(INCH)	ID	OD	WT	SL	H
2½"	73.38	87.80	7.01	46.00	87.00
3"	89.31	105.00	7.62	49.00	99.00
4"	114.76	132.00	8.56	59.00	124.00

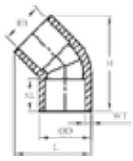
ELBOW 45° SDR 11



SIZE(INCH)	ID	WT	SL
½"	16.08	2.59	12.70
¾"	22.45	2.59	17.78
1"	28.83	2.59	22.86
1¼"	35.20	3.18	27.94
1½"	41.66	3.76	33.02
2"	54.38	4.90	43.18

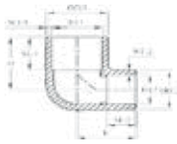
FITTINGS - DIMENSIONS

ELBOW 90° SCH 80



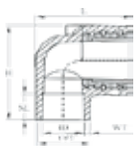
SIZE(INCH)	ID	WT	SL
2½"	73.38	7.01	44.45
3"	89.31	7.62	47.63
4"	114.76	8.58	57.15

REDUCER ELBOW 90° SDR 11



SIZE(INCH)	ID-1	WT-1	SL-1	ID-2	WT-2	SL-2
¾ x ½"	22.45	2.59	17.78	16.08	2.59	12.70
1 x ½"	28.83	2.59	22.86	16.08	2.59	12.70
1 x ¾"	28.83	2.59	22.86	22.45	2.59	17.78

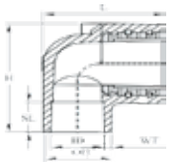
ELBOW 90° (BRASS) SDR 11



SIZE(INCH)	ID	WT	SL
½ x ½"	16.08	2.59	12.70
¾ x ¾"	22.45	2.59	17.78
1 x 1"	28.83	2.59	22.86

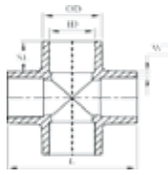
FITTINGS - DIMENSIONS

REDUCER ELBOW 90° (BRASS) SDR 11



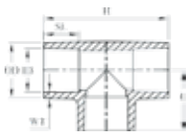
SIZE(INCH)	ID	WT	SL
¾ x ½"	22.45	2.59	17.78
1 x ½"	28.83	2.59	22.86
1 x ¾"	28.83	2.59	22.86
1¼ x ½"	35.20	3.18	27.94
1¼ x ¾"	35.20	3.18	27.94
1¼ x 1"	35.20	3.18	27.94

CROSS TEE SDR 11



SIZE(INCH)	ID	WT	SL
½"	16.08	2.59	12.70
¾"	22.45	2.59	17.78
1"	28.83	2.59	22.86
11/4"	35.20	3.18	27.94
11/2"	41.66	3.76	33.02
2"	54.38	4.90	43.18

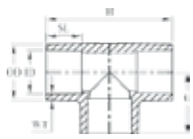
TEE SCH 80



SIZE(INCH)	ID	OD	WT	SL	L	H
2½"	73.38	87.70	7.01	46.00	87.50	173.50
3"	89.31	105.00	7.62	49.00	97.00	195.00
4"	114.76	132.50	8.56	58.00	119.00	240.00

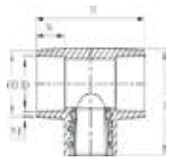
FITTINGS - DIMENSIONS

TEE SDR 11



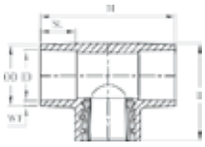
SIZE(INCH)	ID	OD	WT	SL	L	H
½"	16.08	-	2.59	12.70	-	-
¾"	22.45	27.05	2.59	17.78	31.00	62.00
1"	28.83	34.50	2.59	22.86	39.50	78.00
1¼"	35.20	41.70	3.18	27.94	46.60	95.00
1½"	41.66	49.50	3.76	33.02	55.70	111.00
2"	54.38	-	4.90	43.18	-	-

BRASS TEE SDR 11



SIZE(INCH)	ID	WT	SL
½ x ½ x ½"	16.08	2.59	12.70
¾ x ¾ x ¾"	22.45	2.59	17.78

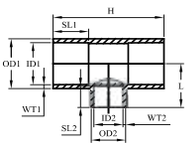
BRASS REDUCER TEE SDR 11



SIZE(INCH)	ID	WT	SL
¾ x ¾ x ½"	22.45	2.59	17.78
1 x 1 x ½"	28.83	2.59	22.86
1 x 1 x ¾"	28.83	2.59	22.86
1¼ x 1¼ x ½"	35.20	3.18	27.94

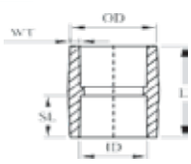
FITTINGS - DIMENSIONS

REDUCER TEE SDR 11



SIZE(INCH)	ID-1	WT-1	SL-1	ID-2	WT-2	SL-2
½ x ½ x ¾"	16.08	2.59	12.70	22.45	2.59	17.78
¾ x ½ x ½"	22.45	2.59	17.78	16.08	2.59	12.70
¾ x ½ x ¾"	22.45	2.59	17.78	16.08	2.59	12.70
¾ x ¾ x ½"	22.45	2.59	17.78	16.08	2.59	12.70
1 x 1 x ½"	28.83	2.59	22.86	16.08	2.59	12.70
1 x 1 x ¾"	28.83	2.59	22.86	22.45	2.59	17.78
1¼ x 1¼ x ½"	35.20	3.18	27.94	16.08	2.59	12.70
1¼ x 1¼ x ¾"	35.20	3.18	27.94	22.45	2.59	17.78
1¼ x 1¼ x 1"	35.20	3.18	27.94	28.83	2.59	22.86
1½ x 1½ x ½"	41.66	3.76	33.02	16.08	2.59	12.70
1½ x 1½ x ¾"	41.66	3.76	33.02	22.45	2.59	17.78
1½ x 1½ x 1"	41.66	3.76	33.02	28.83	2.59	22.86
1½ x 1½ x 1¼"	41.66	3.76	33.02	35.20	3.18	27.94
2 x 2 x ½"	54.38	4.90	43.18	16.08	2.59	12.70
2 x 2 x ¾"	54.38	4.90	43.18	22.45	2.59	17.78
2 x 2 x 1"	54.38	4.90	43.18	28.83	2.59	22.86
2 x 2 x 1¼"	54.38	4.90	43.18	35.20	3.18	27.94
2 x 2 x 1½"	54.38	4.90	43.18	41.66	3.76	33.02

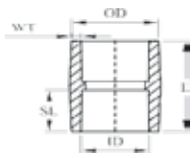
COUPLER SCH 80



SIZE(INCH)	ID	OD	WT	SL	L
2½"	73.38	87.70	7.01	46.00	97.00
3"	89.31	105.00	7.62	49.00	102.50
4"	114.76	132.50	8.56	59.00	123.00

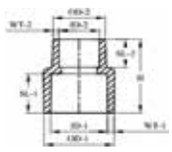
FITTINGS - DIMENSIONS

COUPLER SDR 11



SIZE(INCH)	ID	OD	WT	SL	L
½"	16.08	-	2.59	12.70	-
¾"	22.45	27.50	2.59	17.78	39.50
1"	28.83	34.50	2.59	22.86	48.70
1¼"	35.20	71.70	3.18	27.94	60.00
1½"	41.66	49.00	3.76	33.02	69.00
2"	54.38	64.00	4.90	43.18	90.00

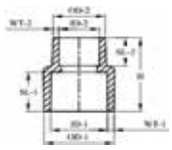
REDUCER COUPLER SDR 11



SIZE(INCH)	ID-1	WT-1	SL-1	ID-2	WT-2	SL-2
¾ x ½"	22.45	2.59	17.78	16.08	2.59	12.70
1 x ½"	28.83	2.59	22.86	16.08	2.59	12.70
1 x ¾"	28.83	2.59	22.86	22.45	2.59	17.78
1¼ x ½"	35.20	3.18	27.94	16.08	2.59	12.70
1¼ x ¾"	35.20	3.18	27.94	22.45	2.59	17.78
1¼ x 1"	35.20	3.18	27.94	28.83	2.59	22.86
1½ x ½"	41.66	3.76	33.02	16.08	2.59	12.70
1½ x ¾"	41.66	3.76	33.02	22.45	2.59	17.78
1½ x 1"	41.66	3.76	33.02	28.83	2.59	22.86
1½ x 1¼"	41.66	3.76	33.02	35.20	3.18	27.94
2 x ½"	54.38	4.90	43.18	16.08	2.59	12.70
2 x ¾"	54.38	4.90	43.18	22.45	2.59	17.78
2 x 1"	54.38	4.90	43.18	28.83	2.59	22.86
2 x 1¼"	54.38	4.90	43.18	35.20	3.18	27.94
2 x 1½"	54.38	4.90	43.18	41.66	3.76	33.02

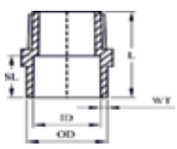
FITTINGS - DIMENSIONS

REDUCER COUPLER



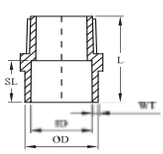
SIZE(INCH)	ID-1	WT-1	ID-2	WT-2
2½ x 1½"	73.38	7.01	41.66	3.76
2½ x 2"	73.38	7.01	54.38	4.90
3 x 2"	89.31	7.62	54.38	4.90
3 x 2½"	89.31	7.62	73.38	7.01
4 x 2½"	114.76	8.56	73.38	7.01
4 x 3"	114.76	8.56	89.31	7.62

MALE THREAD ADAPTER PLASTIC SDR 11



SIZE(INCH)	ID	WL	SL	L
½"	16.08	2.59	12.70	-
¾"	22.45	2.59	17.78	38.50
1"	28.83	2.59	22.86	48.00
1¼"	35.20	3.18	27.94	55.50
1½"	41.66	3.76	33.02	-
2"	54.38	4.90	43.18	-

MALE THREAD ADAPTER PLASTIC THREADED SCH 80



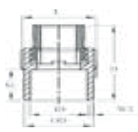
SIZE(INCH)	ID	WL
2½	73.38	7.01
3	89.31	7.62
4	114.76	8.56

FITTINGS - DIMENSIONS

MALE THREAD ADAPTER REDUCER SDR 11

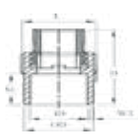
SIZE(INCH)	ID	WL	SL	L
¾ x ½"	22.45	2.59	17.78	41.70
1 x ¾"	28.83	2.59	22.86	44.00

BRASS MALE THREAD ADAPTER SDR 11



SIZE(INCH)	ID	WL	SL	L	H
½"	16.08	2.59	12.70	-	-
¾"	22.45	2.59	17.78	31.00	52.00
1"	28.83	2.59	22.86	39.00	71.00
1¼"	35.20	3.18	27.94	49.00	80.00
1½"	41.66	3.76	33.02	52.00	88.50
2"	54.38	4.90	43.18	-	-

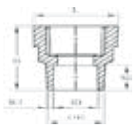
BRASS REDUCER MALE THREAD ADAPTER SDR 11



SIZE(INCH)	ID	WL	SL	L	H
¾ x ½"	22.45	2.59	17.78	26.70	55.00
1 x ½"	28.83	2.59	22.86	32.50	55.50
1 x ¾"	28.83	2.59	22.86	34.00	60.00
11/4" X 1"	35.20	3.18	27.94	-	-

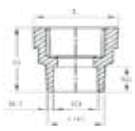
FITTINGS - DIMENSIONS

FEMALE THREAD ADAPTER PLASTIC SDR 11



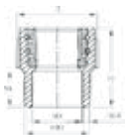
SIZE(INCH)	ID	WL	SL	L	H
½"	16.08	2.59	12.70	-	-
¾"	22.45	2.59	17.78	32.00	39.00
1"	28.83	2.59	22.86	39.70	49.00
1¼"	35.20	3.18	27.94	48.00	56.00
1½"	41.66	3.76	33.02	-	-
2"	54.38	4.90	43.18	-	-

FEMALE THREAD ADAPTER PLASTIC SCH 80



SIZE(INCH)	ID	WL
2½	73.38	7.01
3	89.31	7.62
4	114.76	8.56

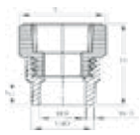
BRASS THREADED FEMALE ADAPTER SDR 11



SIZE(INCH)	ID	WL	SL	L	H
½"	16.08	2.59	12.70	-	-
¾"	22.45	2.59	17.78	30.00	50.00
1"	28.83	2.59	22.86	39.00	65.00
1¼"	35.20	3.18	27.94	47.20	78.00
1½"	41.66	3.76	33.02	52.20	84.00
2"	54.38	4.90	43.18	-	-

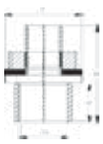
FITTINGS - DIMENSIONS

BRASS REDUCER FEMALE THREADED ADAPTER SDR 11



SIZE(INCH)	ID	WL	SL
¾ x ½"	16.08	2.59	17.78
1 x ½"	28.83	2.59	22.86
1 x ¾"	28.83	2.59	22.86

TANK NIPPLE (WITH ONE SIDE SOCKET)

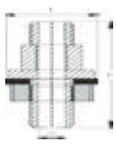


SIZE(INCH)	ID	SL
¾"	22.45	17.78
1"	28.83	22.86
1¼"	35.20	27.94

TANK NIPPLE (WITH ONE SIDE FITMENT)

SIZE(INCH)	ID	SL
¾"	22.45	17.78
1"	28.83	22.86

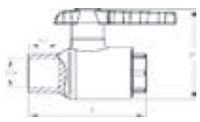
TANK NIPPLE



SIZE(INCH)
½"
¾"
1"
1¼"
1½"
2"

FITTINGS - DIMENSIONS

SINGLE UNION LONG HANDLE BALL VALVE

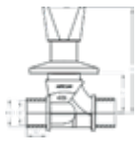


SIZE(INCH)	ID	SL
½"	16.08	12.70
¾"	22.45	17.78
1"	28.83	22.86
1¼"	35.20	27.94
1½"	41.66	33.02

CONCEALED VALVE(HALF TURN)

SIZE(INCH)	ID	SL	h	H
½"	16.08	12.70	31.50	104.00
¾"	22.45	17.78	30.00	105.70
1"	28.83	22.86	27.50	105.70

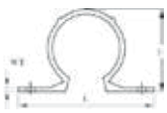
CONCEALED VALVE(FULL TURN)



SIZE(INCH)	ID	SL	h	H
½"	16.08	12.70	-	-
¾"	22.45	17.78	30.00	113.00
1"	28.83	22.86	32.00	111.00

FITTINGS - DIMENSIONS

PLASTIC CLAMP



SIZE(INCH)	L	H
½"	36.00	21.50
¾"	45.00	28.50
1"	54.00	35.50
1¼"	70.00	42.00
1½"	84.50	50.00
2"	97.50	64.00

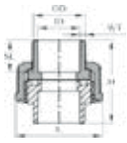
SS CLAMP

SIZE(INCH)
½"
¾"
1"
1¼"
1½"
2"

POWDER COATED METAL CLAMP

SIZE(INCH)	L	H
½"	55.00	17.00
¾"	63.80	23.70
1"	74.00	29.50

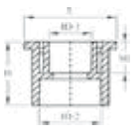
UNION SDR 11



SIZE(INCH)	ID	WL	SL	H
½"	16.08	2.59	12.70	-
¾"	22.45	2.59	17.78	44.00
1"	28.83	2.59	22.86	55.00
1¼"	35.20	3.18	27.94	71.00
1½"	41.66	3.76	33.02	76.00
2"	54.38	4.90	43.18	98.00

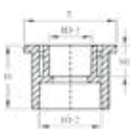
FITTINGS - DIMENSIONS

REDUCER BUSHING SDR 11



SIZE(INCH)	OD	ID	SL
¾ x ½"	22.45	16.08	12.70
1 x ½"	28.83	16.08	12.70
1 x ¾"	28.83	22.45	17.78
1¼ x ½"	35.20	16.08	12.70
1¼ x ¾"	35.20	22.45	17.78
1¼ x 1"	35.20	28.83	22.86
1½ x ½"	41.66	16.08	12.70
1½ x ¾"	41.66	22.45	17.78
1½ x 1"	41.66	28.83	22.86
1½ x 1¼"	41.66	35.20	27.94
2 x ½"	54.38	16.08	12.70
2 x ¾"	54.38	22.45	17.78
2 x 1"	54.38	28.83	22.86
2 x 1¼"	54.38	35.20	27.94
2 x 1½"	54.38	41.66	33.02

REDUCER BUSHING



SIZE(INCH)	OD	ID
2½ x 2"	73.38	54.38
3 x 2"	89.31	54.38
3 x 2½"	89.31	73.38
4 x 2"	114.76	54.38
4 x 3"	114.76	89.31

SOLVENT CEMENT

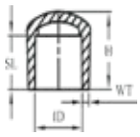
SIZE (ML)	TUBE/TIN
29.5	TUBE
59	TIN
118	TIN
237	TIN
473	TIN
946	TIN

HP SOLVENT CEMENT

SIZE (ML)	TUBE/TIN
59	TIN
118	TIN
237	TIN
473	TIN
946	TIN

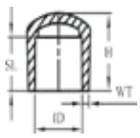
FITTINGS - DIMENSIONS

END CAP



SIZE(INCH)	ID	WT	SL	H
½"	16.08	2.59	12.70	-
¾"	22.45	2.59	17.78	23.00
1"	28.83	2.59	22.86	30.50
1¼"	35.20	3.18	27.94	41.50
1½"	41.66	3.76	33.02	41.00
2"	54.38	4.90	43.18	-

END CAP SCH 80

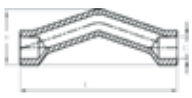


SIZE(INCH)	ID	WT
2½"	73.38	7.01
3"	89.31	7.62
4"	114.76	8.56

THREADED END PLUG

SIZE(INCH)	L	H
½"	31.60	76.60
¾"	-	-

STEP OVER BEND



SIZE(INCH)	ID	L	H
½"	16.08	-	-
¾"	22.45	191.50	54.00
1"	28.83	242.00	63.00
1¼"	35.20	262.00	73.00
1½"	41.66	-	-
2"	54.38	-	-

Complete range of Polymer Piping System & Bath Fittings

CPVC | UPVC | SWR | UGD | HDPE | Borewell
Agriculture | Cistern | Seat Cover | Bath Fittings | Tanks

Toll Free: 1800 889 9779

SKIPPER
PIPES

Marketing Office: Tirumala Building (12th Floor)
22 East Topsia Road, Tiljala, Kolkata 700 046, W.B., India
P: +91 90512 12345
E: enquiry@skipperlimited.com
W: www.skipperpipes.in

Works:

Uluberia (West Bengal) | Guwahati (Assam)

Follow us: