

Nave Bharat Kilkrisht Swr Pipes & Fittings



BALIJI





Flowing with **Excellence**. Flowing **Beyond Expectations**.



The Company



Established in the year 2008, KPT is India's leading Pipe manufacturing company and a producer of various kind of piping solutions. The Brand "KPT" is well known as a hall mark of PPR-C plumbing and UPVC, SWR, Composite pipe and fittings systems in the plumbing industry. UPVC, part of the KPT, offers comprehensive range of premium quality lead free pipes and fittings. For our UPVC, SWR, PPR system production, we only use the highest-quality materials.

We have range of UPVC and SWR Piping Systems for different applications from 63mm to 250mm. We have the largest capacity in terms of production where we exceed and are able to supply material in record time as per your convenience. We have wide range of industry specific piping products that meet the requirements of our targeted audience. UPVC Piping System is designed for all inside building and outside building requirements and is the very latest and most suitable for all plumbing applications. Our endeavour is to give you the very best in quality and ensure that all your plumbing needs are met with the greatest of ease. With our corporate office at New Delhi, KPT Piping System Pvt. Ltd. has a two manufacturing facility at Dehradun in Uttarakhand (India) and depots at PAN India.



At KPT product development initiatives are consistently ongoing to enhance the range. KPT is one of the fastest growing plumbing brands and aspires to continue offering the best in class range of products and create value for all its stakeholders. KPT has an extensive portfolio of products made in various materials such as UPVC, SWR, and PPR which are used in the following sectors.

- Agricultural, landscape and golf course irrigation systems
- Rural water supply networks, town water supply for potable water
- Underground well casing and screens for water supply, mining and cathodic protection
- Above and below ground drainage and sewerage systems for all applications
- Conduits for electrical and cabling systems
- Duct pipes for telecommunication and fibre optic networks
- Industrial piping systems with high chemical resistance for industry
- Piping systems for commercial and residential high rise building
- Piping system for environmental monitoring system
- Acoustic, sound proof drain piping systems

Features & Benefits



Maintenance - Free Plastic

Piping systems made of plastics are maintenance-free, light and very durable. They help reduce repair and overall costs and are suitable for the transport of drinking water, abrasive and aggressive liquids, as well as gas.

UV and Weather resistance

PVC-U is very weather-resistant. Even longer exposure to direct sunlight, wind and rain does hardly any damage to the material. In extreme applications it can be advantageous to protect the material from direct sunlight exposure. Despite its very good weather resistance to ultraviolet radiation, PVC-U loses some of its impact strength. Contact your KPT Piping Systems representative for suitable protective measures.

PVC-U Piping System

The piping system made of PVC-U material can be used for operating temperatures in the range of 0 C to +60 C. Thanks to outstanding chemical resistance, PVC-U piping systems withstand demanding conditions, particularly during the transport of aggressive media, such as acids, bases and salts. The PVC-U piping system is used primarily in the chemical and textile industries, in water treatment and drinking water purification as well as in vacuum lines.

Chemical resistance

PVC-U shows a good resistance against a broad range of media. For detailed information, observe the comprehensive list of chemical resistance from KPT Piping Systems or contact an authorized KPT Piping Systems representative.

Essential System properties

Food and drinking water approvals, proven physiological harmlessness First-class solution for aggressive media, such as acids, bases and salts Possible compact plant construction using elbow, sockets, fittings Safe and simple joining technologies with low costs for tools and materials.

Abrasion resistance

As a relatively hard thermoplastic, the resistance of PVC-U against abrasive stress is lower than those of other pipe materials. For this reason, it is seldom used for applications in the area of solid transport.

Application limits

The application limits of the material on the one hand depend on embrittlement and softening temperatures and on the other hand on the nature and the expected service life of the application. The pressure-temperature diagrams give details on application temperatures and pressures.

Combustion behavior

The high chlorine content of PVC-U causes an advantageous combustion behavior. Self-ignition resulting from temperature influences occurs only at 450 °C. PVC-U burns when exposed to an open flame, but extinguishes immediately after removing the flame. The oxygen index (LOI) amounts to 42 % (materials that burn with less than 21 % of oxygen in the air are considered to be flammable).

Physiological properties

The PVC-U formulas were developed by GF Piping systems for use with drinking water and food. PVCU's physiological harmlessness regarding neutral, acidic and alcoholic foodstuffs and the non-influence on drinking water with respect to odor, taste or microbiological effects are not affected and regularly checked and monitored by neutral institutions in various countries. KPT Piping Systems offers PVC-U systems free from lead and cadmium for your applications in the fields of drinking water or food.

Chemical Resistance of **KPT PIPING** PVC & uPVC Pipes



PVC & uPVC Pipes are highly resistant to salt water acids and alkalis. It is not recommended for use with organic ester, ketones, chlorinated solvents aromatic hydrocarbon and low molecular weight alcohols. Resistance of PVC & uPVC Pipes to common chemicals under the conditions.

Mineral Acids	Hydrochloric Acid 30% Sulphuric Acid 50% Sulphuric Acid 98%	+ + +
Alkalis	Ammonium Hydroxide Calcium Hydroxide Sodium Hydroxide	+ + +
Salts	Calcium Chloride Potassium Chloride Sodium Bicarbonate Sodium Chloride Sodium Phosphate Sodium Sulphate	+ + + + +
Oxidizing Agents / Disinfectants	Sodium Hydrochloride (Bleach Solution) Chlorine Water Calcium Hypochlorite - Soln. 18%	+ + +
Organic Acids	Acetic Acid - 10% Citric Acid 25% Hydroxyl Acetic Acid	+ + +
Oil & Derived Products	Diesel Fuel Gasoline Lubricating & Thread Cutting Oils Motor Oil	+ + + +
Solvents	Acetone Methyl ketone Toluene Trichloroethylene Turpentine Xylene Soaps & Detergents	+ + + + + +
Gases	Ammonia Carbon Dioxide Natural Gas Oxygen	+ + + +



Sewerage, Soil & Drain: IS 13592:2013



Unplasticized Polyvinyl Chloride (PVC-U) for soil and waste Discharge system for inside and outside buildings including ventilation and rain water System

Nominal	Mean C	Dutside	Outside Diameter at any point		TYF	PE-A	TYF	PE-B
Size	Dian	neter			W Thickne	'all ss(mm)	W Thickne	all ss(mm)
DN	Min.	Max.	Min.	Мах.	Min.	Мах.	Min.	Мах.
75	75.0	75.3	74.1	75.90	1.8	2.2	3.2	3.8
90	90.0	90.3	88.9	91.10	1.9	2.3	3.2	3.8
110	110.0	110.4	108.6	111.40	2.2	2.7	3.2	3.8
160	160.0	160.5	158.0	162.00	3.2	3.8	4.0	4.6

DIMENSIONS OF UNPLASTICIZED PVC PIPE (IS 13592:2013)

DIMENSIONS OF UNPLASTICIZED PVC SOCKET FOR SOLVENT CEMENTING AND SOC KET ON PIPE (IS 13592:2013)

Nominal	Socket	Mean Inside Diameter of Socket at Midpoint		S2 M	1in.		S3 Min.
Size	Depth			Wa Thicknes	all ss(mm)	Wall Th	nickness(mm)
DN	Min.	Min.	Мах.	TYPE - A	TYPE-B	TYPE-A	TYPE-B
75	40.0	75.1	75.3	1.6	2.9	1.0	2.4
90	46.0	90.1	90.3	1.7	2.9	1.1	2.4
110	48.0	110.1	110.4	2.0	2.9	1.2	2.4
160	58.0	160.2	160.5	2.9	3.6	1.8	3.0

uPVC SWR PIPES & FITTINGS(RING FIT)



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6		Pipe	75	мм	90	мм	110	мм	160	ММ
		Length	Type A	Туре В	Туре А	Туре В	Type A	Туре В	Type A	Туре В
			4 Kg	6 Kg						
	Selfit	10 ft.	368	652	524	820	736	1030	1596	1904
		20 ft.	736	1304	1048	1640	1472	2060	3192	3808
	Ringfit	10 ft.	387	685	551	861	773	1082	1676	2000
		20 ft.	774	1370	1102	1722	1546	2164	3352	4000

BEND 87.5°



Si	ze	Std.	Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75	50	81
3"	90	30	113
4"	110	30	162

BEND 87.5° WITH DOOR



Size		Std.	Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75	50	103
3"	90	30	129
4"	110	26	197

TEE



Size		Std.	Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75	36	122
3"	90	20	136
4"	110	18	215

TEE WITH DOOR



Size		Std.	Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75	28	145
3"	90	19	157
4"	110	12	264

SINGLE WYE WITH DOOR



Si	Size		Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75	25	135
3"	90	20	197
4"	110	14	264

SINGLE WYE



Size		Std.	Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75	32	140
3"	90	25	222
4"	110	16	232

DOUBLE TEE





SizeStd.Price/Rs.inchmmPackingPer Piece3"90222094"11016240

BEND 45°



Size		Std.	Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75	40	60
3"	90	40	94
4"	110	36	134

REDUCER TEE



Size	Std.	Price/Rs.
mm	Packing	Per Piece
90 X 75	24	126

DOUBLE TEE WITH DOOR



inch	mm	Packing	Por Dioco
			F CI FICCC
3"	90	22	195
4"	110	12	281

CLEANING PIPE



Size		Std.	Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75	50	114
3"	90	30	124
4"	110	24	212

REDUCER TEE WITH DOOR

OFFSET REDUCER



P TRAP(Short)



P TRAP(Long)



Size	Std.	Price/Rs.
mm	Packing	Per Piece
110 X 75	54	80

Std. Price/Rs.

Std. Price/Rs.

275

290

295

306

inch mm Packing Per Piece

inch mm Packing Per Piece

16

14

16

14

Size

4"x4" 110x110

4½"x4" 125x110

Size

4"x4" 110x110

4½"x4" 125x110





COUPLER



Size		Std.	Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75	75	53
3"	90	60	64
4"	110	36	120

NAHANI TRAP



Size		Std.	Price/Rs.
inch	mm	Packing	Per Piece
4"x2"	110x63	48	95
4"x2½"	110x75	40	100
4"x3"	110x90	32	115
4"x4"	110x110	30	128

uPVC SWR PIPES & FITTINGS(SOLVENT JOINT)



BEND 87.5°



Size		Std.	Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75	72	60
3"	90	30	109
4"	110	42	118

BEND 87.5° WITH DOOR



Size		Price/Rs.
mm	Packing	Per Piece
75	56	76
90	30	126
110	36	150
	ze mm 75 90 110	ze Std. mm Packing 75 56 90 30 110 36

TEE



Size		Std.	Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75	48	74
3"	90	24	132
4"	110	30	147
	_		



TEE WITH DOOR

Size		Std.	Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75	45	92
3"	90	18	152
4"	110	14	181

SINGLE WYE



Size		Std.	Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75	22	116
3"	90	20	183
4"	110	18	226
7	110	10	220

SINGLE WYE wITH DOOR



Size		Std.	Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75	30	131
3"	90	20	192
4"	110	14	257

DOUBLE TEE



Size		Std.	Price/Rs.
inch	mm	Packing	Per Piece
3"	90	22	162
4"	110	16	233

DOUBLE TEE WITH DOOR



Size		Std.	Price/Rs.	
inch	mm	Packing	Per Piece	
3"	90	22	189	
4"	110	12	273	



BEND 45°



Si	ze	Std.	Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75	75	59
3"	90	40	91
4"	110	48	96

REDUCER TEE



Size		Std.	Price/Rs.	
inch	mm	Packing	Per Piece	
3"x2½"	90x75	24	122	
4"x2½"	110x75	30	133	

CLEANING PIPE



Size		Std.	Price/Rs.	
inch	mm	Packing	Per Piece	
21⁄2"	75	60	80	
3"	90	30	121	
4"	110	20	154	

REDUCER TEE WITH DOOR



Size		Std.	Price/Rs.	
inch	mm	Packing	Per Piece	
3"x2½"	90x75	20	141	
4"x2½"	110x75	25	153	

COUPLER

4"X2	2/2 1	10x7	75	2	5	15	53

REDUCER



Si	Size		Price/Rs.	
inch	mm	Packing	Per Piece	
4"x2½"	110x75	54	78	



Size		Std.	Price/Rs.	
inch	mm	Packing	Per Piece	
21⁄2"	75	75	35	
3"	90	60	52	
4"	110	80	55	

PVC Solvent Cement

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Weight	Price/Rs.
ML	Per Piece
100ml	144.00
200ml	194.00
500ml	435.50
1000ml	869.50

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Si	ze	Std.	Price/Rs.
inch	mm	Packing	Per Piece
4"	110	200	22

Rubber Lubricant



Weight	Price/Rs.
Grams	Per Piece
100 gms	50.40
250 gms	100.80
500 gms	180.00
1000 gms	351.00

DOOR CAP



Size		Std.	Price/Rs.
inch	mm	Packing	Per Piece
21⁄2"	75		17
4"	110		22





uPVC Pressure Pipes & Fittings for **AGRICULTURE & IRRIGATION** System, ensuring a healthier flow for lifetime.

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- Strong & Light Weight
- High Chemical & Corrosion Resistance
- Low Maintenance/Cost effective
- Low Thermal Conductivity

Cost Effective

DOKET

- Smooth Inner surface
- Fire Retardent
- Quick & Easy installation



Unplasticized Polyvinyl Chloride (UPVC) for potable water suppliers. For Potable Water Pipe (Type-A) and Agriculture Pipe (Type-B)

Nominal	Mean C Diarr	n Outside Diameter at any		Outside Diameter at any		SS - 1 MPa)	CLA (0.40	SS - 2 IMPa)
5120	Dian		ро	oint	Thickne	ss(mm)	Thickness(mm)	
DN	Min.	Мах.	Min.	Мах.	Min.	Мах.	Min.	Мах.
63	63.0	63.3	62.2	63.80			1.5	1.9
75	75.0	75.3	74.1	75.90			1.8	2.2
90	90.0	90.3	88.9	91.10	1.3	1.7	2.1	2.6
110	110.0	110.4	108.6	111.40	1.6	2.0	2.5	3.0
125	125.0	125.4	123.5	126.50	1.8	2.2	2.9	3.4
140	140.0	140.5	138.3	141.70	2.0	2.4	3.2	3.8
160	160.0	160.5	158.0	162.00	2.3	2.8	3.7	4.3
180	180.0	180.6	177.8	182.20	2.6	3.1	4.2	4.9
200	200.0	200.6	197.6	202.40	2.9	3.4	4.6	5.3

DIMENSIONS OF UNPLASTICIZED PVC PIPE (IS 4985:2021)

Nominal Mean Outside		Outside		CLASS - 3 (0.60MPa)		CLASS - 5 (1.00MPa)			
Size	Diam	neter	planet	Diameter at any point		Wall Thicknoss(mm)		Wall Thicknoss(mm)	
DN	Min	Mari	Min	Maria	Min	Mari	Min	Mari	
DN	Min.	мах.	Min.	мах.	Min.	мах.	Min.	мах.	
63	63.0	63.3	62.2	63.80	2.2	2.7	3.5	4.1	
75	75.0	75.3	74.1	75.90	2.6	3.1	4.2	4.9	
90	90.0	90.3	88.9	91.10	3.1	3.7	5.0	5.7	
110	110.0	110.4	108.6	111.40	3.7	4.3	6.1	7.1	
125	125.0	125.4	123.5	126.50	4.3	5.0	6.9	8.0	
140	140.0	140.5	138.3	141.70	4.8	5.5	7.7	8.9	
160	160.0	160.5	158.0	162.00	5.4	6.2	8.8	10.2	
180	180.0	180.6	177.8	182.20	6.1	7.1	9.9	11.4	
200	200.0	200.6	197.6	202.40	6.8	7.9	11.0	12.7	

uPVC PRESSURE PIPES & FITTINGS



UNPLASTICIZED PVC PIPE FOR POTABLE WATER AND AGRI (IS 4985:2021)



Normal Size(mm)	Inch	Class-1(0.25 MPa) 2.5 kgf/cm ²	Class-2(0.40 MPa) 4.0 kgf/cm ²	Class-3(0.60 MPa) 6.0 kgf/cm ²	Class-5(1.00 MPa) 10.0 kgf/cm ²
63	2"		545	790	1230
75	21⁄2"		779	1112	1757
90	3"	681	1091	1578	2511
110	4"	1025	1588	2324	3744
140	5"	1633	2586	3834	6018
160	6"	2143	3416	4932	7860
200	8"	3407	5324	8050	12313

ELBOW 90°



	Size		Std.	Price/Rs.
Pressure	inch	mm	Packing	Per Piece
2.5kg	3"	90	76	39
	4"	110	48	69
	6"	160	10	190
4kg	2"	63	96	31
	21⁄2"	75	96	36
	3"	90	76	50
	4"	110	36	82
	6"	160	10	272
6kg	2"	63	72	50
	21⁄2"	75	66	82
	3"	90	40	121
	4"	110	24	182
	6"	160	4	546

TEE 90°

		Size	Std.	Price/Rs.	
	Pressure	inch	mm	Packing	Per Piece
	2.5kg	3"	90	40	53
		4"	110	30	87
-		6"	160	10	260
	4kg	2"	63	48	50
		21⁄2"	75	66	60
		3"	90	50	67
		4"	110	18	106
		6"	160	7	380
	6kg	2"	63	48	61
		21⁄2"	75	44	90
		3"	90	25	149
		4"	110	18	228
		6"	160	5	764

REDUCER



	Size	Std.	Price/Rs.	
Pressure	inch	mm	Packing	Per Piece
6kg	4"x2"	110x63	80	73
	4"x2½"	110x75	80	82
	4"x3"	110x90	64	89

COUPLER

2			
			2
1			
10	100	190	1

Size			Std.	Price/Rs.
Pressure	inch	mm	Packing	Per Piece
4kg	3"	90	80	51
4kg	4"	110	48	81
6kg	3"	90	80	69
6kg	4"	110	36	98

REDUCING TEE

		Size	Std.	Price/Rs.	
	Pressure	inch	mm	Packing	Per Piece
	6kg	4"x2"	110x63	18	191
-		4"x2½"	110x75	18	196
		4"x3"	110x90	18	206

END CAP

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- mail

Size			Std.	Price/Rs.
Pressure	inch	mm	Packing	Per Piece
4kg	3"	90	80	38
4kg	4"	110	50	56
6kg	3"	90	80	47
6kg	4"	110	50	73

INSTALLATION GUIDE



Pipe Installation with Solvent Cement Joints

- 1. Cut pipe square with the axis, using a fine-tooth saw with a miter box or guide. Remove all burrs and break the sharp lead edges.
- 2. Surfaces to be joined must be cleaned and free of dirt, moisture, oil, and other foreign material.
- 3. PVC solvent cement is fast drying and should be applied as quickly as possible, consistent with good workmanship. Follow the manufacturer's recommendations for application of solvent cement.
- 4. While both the inside socket surface and the outside surface of the spigot of the pipe are WET with solvent cement, forcefully bottom the spigot in the socket. Turn the pipe or fitting 1/4 turn during assembly (but not after the pipe is bottomed) to distribute the cement evenly. Assembly should be completed within 30 seconds after the last application of solvent cement.
- 5. Wipe excess cement from the pipe at the end of the socket. Any gaps in the cement bead around the pipe perimeter may indicate a defective assembly. Handle the newly assembled joints carefully after 1 hour.

Important Points of Pipe Installation with Solvent Cement Joints

- 1. The joining surfaces must be clean and dry.
- 2. Sufficient cement must be applied to fill the gap between male and female ends.
- 3. The assembly must be made while the surfaces are still wet and fluid.
- 4. Completed joints should not be disturbed until they have cured sufficiently to withstand handling.
- 5. Keep the solvent cement closed and shaded when not actually in use. Discard the solvent cement when a noticeable change in viscosity occurs, when the cement does not flow freely from the brush, or when the cement appears lumpy and stringy.

Pipe Installation with Rubber - Ring Joints

- 1. Clean the socket area. Remove sand, dirt, grease and debris.
- 2. Insert the rubber ring into the ring groove.
- 3. Clean the spigot end of the pipe as far back as the reference line.
- 4. Apply lubricant to the spigot end and approximately mid-way back to the reference line.
- 5. Insert the spigot end into the socket until it contacts the rubber ring uniformly. Apply steady pressure by hand or by mechanical means until the spigot slips through the rubber ring. Insert pipe until the reference line is just visible at the face of each socket.

Important Points of Pipe Installation with Rubber - Ring Joints

- 1. The rubber ring is correctly fitted when the thickness cross section of the ring is positioned towards the outside of the socket and groove in the rubber ring is positioned inside the socket.
- 2. Check the rubber ring to make sure it is sealed uniformly in the ring groove by running your finger around the inner edge of the rubber ring.
- 3. Keep lubricant areas clean. If dirt or sand adheres to lubricated areas, clean and re-lubricate.
- 4. Bar and block assembly is recommended because a worker is able to feel the amount of force being used and whether the joint goes together smoothly.
- 5. If undue resistance to pipe insertion is encountered, disassemble the joint and check the position of the rubber ring.
 - If the rubber ring has been dislocated from the ring groove, inspect the pipe and rubber ring for damage, replace damaged items, clean components and repeat the installation steps.
 - If the rubber ring is still properly positioned, verify proper positioning of the reference line. Relocated the line if it is not correctly positioned.
 - If the pipe still cannot be inserted properly, please do contact us for assistance.





D G KAL



Suitable for Soil, Waste & Rain Water Management, Domestic & Industrial Drainage System

- Light Weight
- High Chemical & Corrosion Resistance
- Low Maintenance

- **Cost Effective**
- High Flow Rates
- Quick & Easy installation

The epitome of refined drainage solutions. Smart Solutions for **Greener Future.**



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