



Quality, Reliability, Life

## uPVC Column Pipe



[www.prakashpump.com](http://www.prakashpump.com)

## Applications

- Water rising for submersible and jet pump for Irrigation, Domestic, Industrial mining, Chemical distribution.
- A wise replacement for MS, PPR, ERW, GI, HDPE and SS Column Pipes.
- uPVC is nearly inert towards corrosion, chemical reaction and erosion due to which, it is ideally used in salty, sandy and chemically aggressive water without any effect over the years.

## Installation

- Vertical, Horizontal or Inclined installation

## Special Features and Identity

- Surface finish of this pipe is extremely smooth which reduces the hydraulic friction losses and increase flow of water.
- Internal and External Square threaded spigot ends and rubber gasket for easy, reliable joining and pressure sealing.
- Special square thread given quick & easy installation facility and having very high load bearing capacity.
- Inside sealin140g ring for turbulence free leak proof joint and prevents over tightening.
- Step ring prevents leakages and control the vibration and over tightening.
- Inkjet printing & Hallmark to prevent duplication in market & ensures original genuine products.
- Very smooth internal surface increases 10% to 30% Water & Reduces 10% to 20% Power consumption.
- Provision of outer ring to prevent leakage and over tightening.
- Extra-long coupler in Heavy & Super Heavy series for higher load pulling strength and maintenance free jointing system over period of time.

## Salient Features

- Corrosion Free & Inert to Alkaline and Non- Alkaline liquids
- Very low friction losses (10 to 30% more water)
- Cost Effective
- Energy Saver
- Long Life (Min 50 years)
- No Electrolytic Deposition
- Non Toxic
- High tensile strength & Rigidity
- Easy Installation & handling
- Manufacturing at computer numerical control Machine (CNC)



### Product Comparative Chart:

Prakash Column Pipe		Mild Steel or Galvanised Steel Pipe	
Before	After	Before	After
			

Sr. no.	Material Property	Prakash Column Pipe	Mild Steel or Galvanised
1.	Head loss due to internal friction	Since the internal surface is very smooth therefore head loss due to friction is very low and water discharge is more by 10% to 30 %	Internal surface is rough and head loss is high and becomes more over years of remaining inside the well
2.	Weight of pipe and ease of handling	Pipes come in 3 meters and 6 meters standard length and are light weight for easy handling both during pump fitment and also removal. This saves time	Pipes are very hard and great effort is required for installation and removal of pumps. Time costs
3.	Risk category	No risk category as the pipes are light weight	Heavy risk involved when used in deep bore wells as the column of the pipe becomes very heavy and prone to accidents during handling (particularly while lifting up)
4.	Long life (usage duration)	Prakash column pipes do not react with acidic or alkaline water and also have a very long life (during reaction with water) up to 50 years	Galvanized steel pipes are prone to rusting and corrosion and due to this character they tend to get damaged and have to be replaced . Usage not more than 5 to 10 years
5.	Thread and leak proof joint	Specially designed square threads have very high load holding capacity and these threads do not corrode or rust and last up to 40 to 50 years. The rubber seal with the thread provides 100 % leak proof even at very high pressure and controls vibration. If installed properly unless the pumps stop working the pipes need not to be removed from the well for as much as years.	Unlike column pipes, these threads are prone to corrosion and rusting. In the period of 2 to 5 years due to rusting the pipes have to be removed and have to cut and rethreaded. So even if the motor is in good condition still the pipes have to be removed from the well for repair work after few years of installation.
6.	Cost Effective	Prakash column pipes are very cost effective as their life is up to 50 years. Also to add they save the handling time	GI pipes are not cost effective as their life is not more than 10 years. The pipes are heavy and need more time for installation compared UPVC pipes
7.	Water Blockage	As the inner surface is soft / smooth the pipe makes the water discharge very easy and there is no chance any blockage even after years of remaining inside the well (particularly in salt water) also the soft (inner wall) surface helps to increase the water flow	The inner surface is very rough and over a period of years the rust gets accumulated in the inside wall of the pipes and by which the water flow will be less when years pass by. To add the hard inner wall stays as a threat for free flow of water by which the user ends with less efficient pumps
8.	Contamination	There is no space for the word "Contamination" in Prakash column pipe. as they do not react with any type of chemical or acidic liquid ( no rust / no corrosion )	there is more chance of contamination, as after years of usage the rust gets accumulated inside the pipe and whenever the pump is switched on the water gets the rust collected along which is deposited in pipe and discharges, by which it makes the water quality deteriorate and thus becomes non drinkable.

Sr. no.	Material Property	Prakash Column Pipe	Mild Steel or Galvanised
9.	There is no corrosion in the UPVC pipe and hence there is no effect it puts on pump set.	With the passage of time there is very high corrosion in the pipe due to salt water and pipe material and it puts high effect on pump by dropping the corrosion waste material into pump that cases the impeller jam and life ultimately reduces of pump and then motor.	there is more chance of contamination, as after years of usage the rust get accumulated inside the pipe and whenever the pump is switched on the water gets the rust collected along which is deposited in pipe and discharges, by which it make the water quality to Detroit and thus becomes non drinkable.

### Technical Data 1.5" to 6"

1.5” Standard – Prakash Brand (Short Coupler)															
Size	Nominal dia (DN in mm)	Outer dia (OD in mm)	Wall thickness (mm)		Outer dia (mm)		Total pipe length (mm)	Pipe weight (Pcs/Kg)	Pitch size (mm)	Coupler OD (mm)	Coupler Length (mm)	Safe allowable hydrostatic Pressure (Kg/cm²)	Safe Installation depth (feet)	Safe pulling load with chain pulley (Kgf)	Packing (Nos)
			Min	Max	Min	Max									
1.5”	40	48	5.2	5.4	48.11	48.41	3000	2.560	3	62.5	120	26	396	1500	20
Printing message – Printing on pipes in black color & Brand name in red color															

1.5" Heavy – Prakash Brand (Short Coupler)															
Size	Nominal dia (DN in mm)	Outer dia (OD in mm)	Wall thickness (mm)		Outer dia (mm)		Total pipe length (mm)	Pipe weight (Pcs/Kg)	Pitch size (mm)	Coupler OD (mm)	Coupler Length (mm)	Safe allowable hydrostatic Pressure (Kg/cm²)	Safe Installation depth (feet)	Safe pulling load with chain pulley (Kgf)	Packing (Nos)
			Min	Max	Min	Max									
1.5"	40	48	6.5	6.7	48.11	48.41	3000	3.400	3	62.5	120	35	528	2000	20
Printing message – Printing on pipes in black color & Brand name in green color															

2" Standard – Prakash Brand (Short Coupler)															
Size	Nominal dia (DN in mm)	Outer dia (OD in mm)	Wall thickness (mm)		Outer dia (mm)		Total pipe length (mm)	Pipe weight (Pcs/Kg)	Pitch size (mm)	Coupler OD (mm)	Coupler Length (mm)	Safe allowable hydrostatic Pressure (Kg/cm²)	Safe Installation depth (feet)	Safe pulling load with chain pulley (Kgf)	Packing (Nos)
			Min	Max	Min	Max									
2"	50	60	6.0	6.5	60.17	60.47	3000	3.430	4	78.5	140	20	330	2500	10
Printing message – Printing on pipes in black color & Brand name in red color															

2" Heavy – Prakash Brand (Short Coupler)															
Size	Nominal dia (DN in mm)	Outer dia (OD in mm)	Wall thickness (mm)		Outer dia (mm)		Total pipe length (mm)	Pipe weight (Pcs/Kg)	Pitch size (mm)	Coupler OD (mm)	Coupler Length (mm)	Safe allowable hydrostatic Pressure (Kg/cm <sup>2</sup> )	Safe Installation depth (feet)	Safe pulling load with chain pulley (Kgf)	Packing (Nos)
			Min	Max	Min	Max									
2"	50	60	7.3	8.0	60.17	60.47	3000	4.415	4	78.5	140	27	594	3200	10
Printing message – Printing on pipes in black color & Brand name in green color															

2.5” Heavy – Prakash Brand (Long Coupler)															
Size	Nominal dia (DN in mm)	Outer dia (OD in mm)	Wall thickness (mm)		Outer dia (mm)		Total pipe length (mm)	Pipe weight (Pcs/Kg)	Pitch size (mm)	Coupler OD (mm)	Coupler Length (mm)	Safe allowable hydrostatic Pressure (Kg/cm²)	Safe Installation depth (feet)	Safe pulling load with chain pulley (Kgf)	Packing (Nos)
			Min	Max	Min	Max									
2.5”	65	75	8.7	9.4	74.84	75.2	3000	6.470	6	100	230	27	594	4000	10
Printing message – Printing on pipes in black color & Brand name in green color															

## 3" Standard – Prakash Brand (Long Coupler)

Size	Nominal dia (DN in mm)	Outer dia (OD in mm)	Wall thickness (mm)		Outer dia (mm)		Total pipe length (mm)	Pipe weight (Pcs/Kg)	Pitch size (mm)	Coupler OD (mm)	Coupler Length (mm)	Safe allowable hydrostatic Pressure (Kg/cm <sup>2</sup> )	Safe Installation depth (feet)	Safe pulling load with chain pulley (Kgf)	Packing (Nos)
			Min	Max	Min	Max									
3"	80	88	7.4	7.9	87.7	88.1	3000	7.340	6	120	230	18	396	5010	5

Printing message – Printing on pipes in black color & Brand name in red color

## 3" Heavy – Prakash Brand (Long Coupler)

Size	Nominal dia (DN in mm)	Outer dia (OD in mm)	Wall thickness (mm)		Outer dia (mm)		Total pipe length (mm)	Pipe weight (Pcs/Kg)	Pitch size (mm)	Coupler OD (mm)	Coupler Length (mm)	Safe allowable hydrostatic Pressure (Kg/cm <sup>2</sup> )	Safe Installation depth (feet)	Safe pulling load with chain pulley (Kgf)	Packing (Nos)
			Min	Max	Min	Max									
3"	80	88	9.9	10.5	87.7	88.1	3000	9.200	6	120	230	27	594	6000	5

Printing message – Printing on pipes in black color & Brand name in green color

## 4" Heavy – Prakash Brand (Long Coupler)

Size	Nominal dia (DN in mm)	Outer dia (OD in mm)	Wall thickness (mm)		Outer dia (mm)		Total pipe length (mm)	Pipe weight (Pcs/Kg)	Pitch size (mm)	Coupler OD (mm)	Coupler Length (mm)	Safe allowable hydrostatic Pressure (Kg/cm <sup>2</sup> )	Safe Installation depth (feet)	Safe pulling load with chain pulley (Kgf)	Packing (Nos)
			Min	Max	Min	Max									
4"	100	113	12	12.8	113.07	113.53	3000	14.780	6	143	280	27	594	12000	4

Printing message – Printing on pipes in black color & Brand name in green color

## 5" Heavy – Prakash Brand (Long Coupler)

Size	Nominal dia (DN in mm)	Outer dia (OD in mm)	Wall thickness (mm)		Outer dia (mm)		Total pipe length (mm)	Pipe weight (Pcs/Kg)	Pitch size (mm)	Coupler OD (mm)	Coupler Length (mm)	Safe allowable hydrostatic Pressure (Kg/cm <sup>2</sup> )	Safe Installation depth (feet)	Safe pulling load with chain pulley (Kgf)	Packing (Nos)
			Min	Max	Min	Max									
5"	125	141	15	15.3	141.05	141.55	3000	18.140	6	166	280	27	594	16240	2

Printing message – Printing on pipes in black color & Brand name in green color

## 6" Heavy – Prakash Brand (Long Coupler)

Size	Nominal dia (DN in mm)	Outer dia (OD in mm)	Wall thickness (mm)		Outer dia (mm)		Total pipe length (mm)	Pipe weight (Pcs/Kg)	Pitch size (mm)	Coupler OD (mm)	Coupler Length (mm)	Safe allowable hydrostatic Pressure (Kg/cm <sup>2</sup> )	Safe Installation depth (feet)	Safe pulling load with chain pulley (Kgf)	Packing (Nos)
			Min	Max	Min	Max									
6"	150	165	16.5	17.0	164.7	165.5	3000	33.650	6	200	280	27	594	18050	1

Printing message – Printing on pipes in black color & Brand name in green color

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