

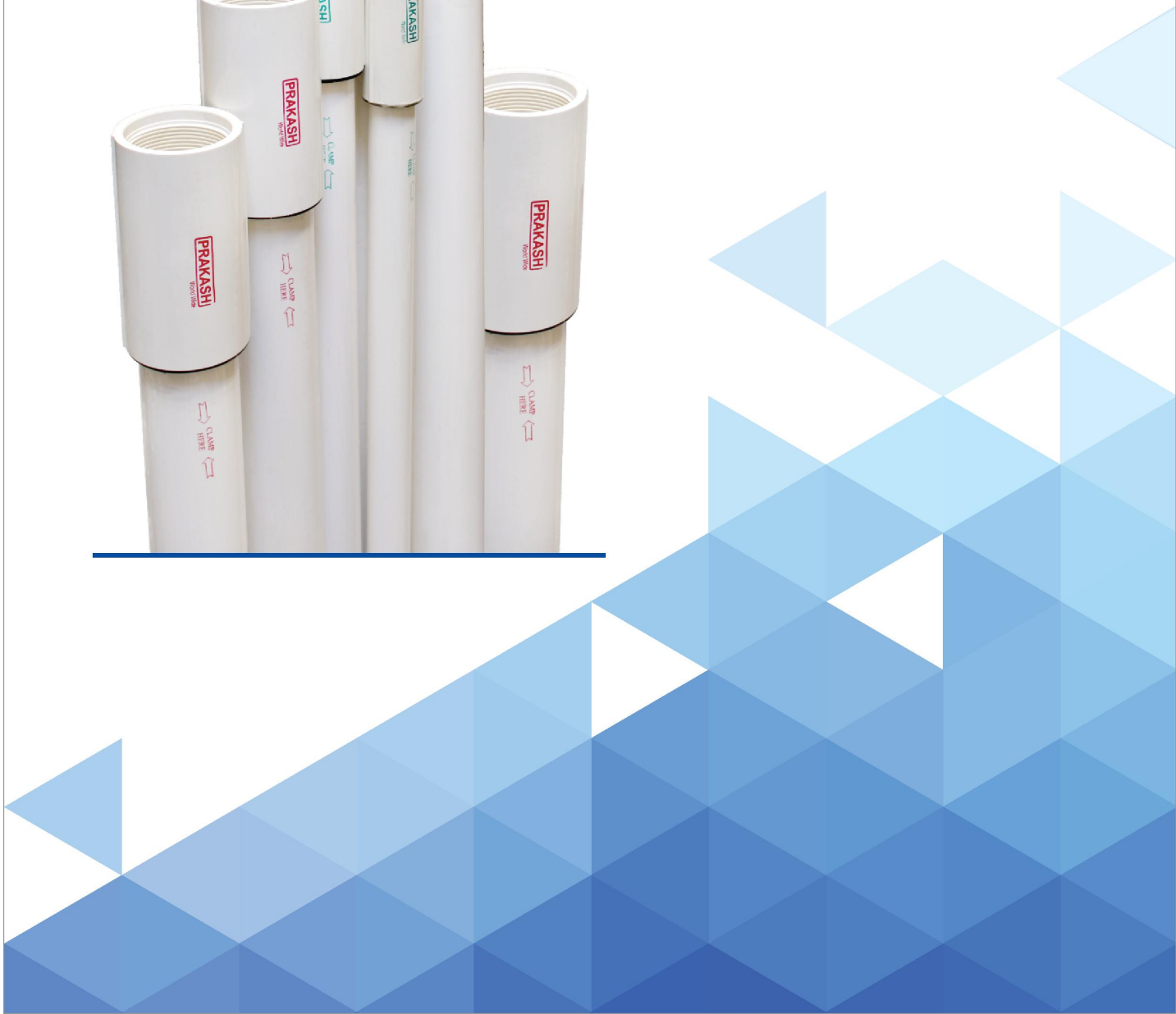


PRAKASH

Worldwide

Quality, Reliability, Life

uPVC COLUMN PIPE



UPVC Column Pipe

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 upto 365 meters (Super heavy duty pipes)

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 seal in 140g 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 Detroit up to 40 to 50 years. The rubber seal are with the thread provides 100 % leak proof even at very high pressure and controls vibration. if installed properly unless the pumps stops 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 has to be removed and has 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

SL No.	Material Property	Prakash Column Pipe	Mild Steel Or Galvanised
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 stay as 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 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.
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 Details

Load Pulling Capacity in (Kg)	Pipe Size	25 mm	32 mm	40 mm	50 mm	65 mm	80 mm	100 mm	125 mm
	Medium	893	1392	1510	1407	2800	3200	4800	7540
Standard	1508	1740	1972	2436	3600	5010	7250	10440	
Heavy	-	-	2300	3255	4250	6612	12500	16240	

Technical Data

1.5" HEAVY DUTTY –PRAKASH BRAND (Short Coupler)

Size	Thickness (mm)	OD (mm)	Pipe Weight (Extra)	Pipe Length (Extra)	Total Length (mm)	Total Weight (Kg)	Pitch Size (mm)	Coupler OD (mm)	Coupler Length (mm)	Starter Pipe Total Length (mm)	Weight for Starter Pipe (Kg)	Packing Weight (Kg)
1.5" HEAVY DUTTY	6.0-6.50	48.26	3.3	2790	2900	3.48	3	62.5	120	445	0.7	69.85

Printing Message - PRINTING ON PIPES IN BLACK COLOUR & BRAND NAME IN GREEN COLOUR

1.5" STANDARD –PRAKASH BRAND (Short Coupler)

Size	Thickness (mm)	OD (mm)	Pipe Weight (Extra)	Pipe Length (Extra)	Total Length (mm)	Total Weight (Kg)	Pitch Size (mm)	Coupler OD (mm)	Coupler Length (mm)	Starter Pipe Total Length (mm)	Weight for Starter Pipe (Kg)
1.5" STANDARD	5.2-5.45	48.26	2.45	2790	2900	2.8	3	62.5	120	445	0.7

Printing Message - PRINTING ON PIPES IN BLACK COLOUR & BRAND NAME IN RED COLOUR

2" HEAVY DUTTY –PRAKASH BRAND (Short Coupler)												
Size	Thickness (mm)	OD (mm)	Pipe Weight (Extra)	Pipe Length (Extra)	Total Length (mm)	Total Weight (Kg)	Pitch Size (mm)	Coupler OD (mm)	Coupler Length (mm)	Starter Pipe Total Length (mm)	Weight for Starter Pipe (Kg)	Packing Weight (Kg)
2" HEAVY DUTTY	7.5-8.2	6032	4.2	2790	2900	4.6	4	79	140	462	1	46.65
Printing Message - PRINTING ON PIPES IN BLACK COLOUR & BRAND NAME IN GREEN COLOUR												
2" HEAVY DUTTY –PRAKASH BRAND (long Coupler)												
Size	Thickness (mm)	OD (mm)	Pipe Weight (Extra)	Pipe Length (Extra)	Total Length (mm)	Total Weight (Kg)	Pitch Size (mm)	Coupler OD (mm)	Coupler Length (mm)	Starter Pipe Total Length (mm)	Weight for Starter Pipe (Kg)	Packing Weight (Kg)
2" HEAVY DUTTY	7.5-8.2	6032	4.2	2790	2900	4.6	6	79	220	462	1.2	46.65
Printing Message - PRINTING ON PIPES IN BLACK COLOUR & BRAND NAME IN GREEN COLOUR												
2" STANDARD –PRAKASH BRAND (Short Coupler)												
Size	Thickness (mm)	OD (mm)	Pipe Weight (Extra)	Pipe Length (Extra)	Total Length (mm)	Total Weight (Kg)	Pitch Size (mm)	Coupler OD (mm)	Coupler Length (mm)	Starter Pipe Total Length (mm)	Weight for Starter Pipe (Kg)	Packing Weight (Kg)
2.0" STANDARD	6.4-6.7	60.32	3.5	2790	2900	4.1	220	4	79	140	462	1
Printing Message - PRINTING ON PIPES IN BLACK COLOUR & BRAND NAME IN RED COLOUR												
2" SUPER HEAVY 6MTR–PRAKASH BRAND (Long Coupler)												
Size	Thickness (mm)	OD (mm)	Pipe Weight (Extra)	Pipe Length (Extra)	Total Length (mm)	Total Weight (Kg)	Pitch Size (mm)	Coupler OD (mm)	Coupler Length (mm)	Starter Pipe Total Length (mm)	Weight for Starter Pipe (Kg)	
2" SUPER HEAVY (6 MTR)	8.00-8.30	60.3	9.4	5.79	5.9	10.2	6	83	230	462	1.65	
Printing Message - PRAKASH LONG LIFE UPVC PIPE FOR DEEP WELL 50MM(2.00") SUPER HEAVY DELIVERY PRESSURE												
2" SUPER HEAVY –PRAKASH BRAND (Long Coupler)												
Size	Thickness (mm)	OD (mm)	Pipe Weight (Extra)	Pipe Length (Extra)	Total Length (mm)	Total Weight (Kg)	Pitch Size (mm)	Coupler OD (mm)	Coupler Length (mm)	Starter Pipe Total Length (mm)	Weight for Starter Pipe (Kg)	
2" SUPER HEAVY	8.00-8.30	60.3	4.76	2.79	2.9	5.16	6	83	230	462	1.65	
Printing Message - PRAKASH LONG LIFE UPVC PIPE FOR DEEP WELL 50MM(2.00") SUPER HEAVY DELIVERY PRESSURE												
2.5" SUPER HEAVY –PRAKASH BRAND												
Size	Thickness (mm)	OD (mm)	Pipe Length (Extra)	Total Length (mm)	Total Weight (Kg)	Pitch Size (mm)	Coupler OD (mm)	Coupler Length (mm)	Starter Pipe Total Length (mm)	Weight for Starter Pipe (Kg)		
2.5" SUPER HEAVY	9.8-10.0	73.02	5.79	5.9	13.7	6	100	230	462	2.5		
Printing Message - Printing on Pipes In Black Colors & Brand Name Color In Black												
3" HEAVY DUTTY –PRAKASH BRAND (Long Coupler)												
Size	Thickness (mm)	OD (mm)	Pipe Weight (Extra)	Pipe Length (Extra)	Total Length (mm)	Total Weight (Kg)	Pitch Size (mm)	Coupler OD (mm)	Coupler Length (mm)	Starter Pipe Total Length (mm)	Weight for Starter Pipe (Kg)	Packing Weight (Kg)
3" HEAVY DUTTY	9.70-10.25	88.9	8	2790	2900	8.7	6	114	220	462	2.4	44.3
Printing Message - PRINTING ON PIPES IN BLACK COLOUR & BRAND NAME IN GREEN COLOUR												
3" STANDARD –PRAKASH BRAND (Short Coupler)												
Size	Thickness (mm)	OD (mm)	Pipe Length (Extra)	Total Length (mm)	Total Weight (Kg)	Pitch Size (mm)	Coupler OD (mm)	Coupler Length (mm)	Starter Pipe Total Length (mm)	Weight for Starter Pipe (Kg)		
3.0" STANDARD	7.4-7.9	88.9	5.9	2790	2900	6.3	4	110	155	4622		
Printing Message - PRINTING ON PIPES IN BLACK COLOUR & BRAND NAME IN RED COLOUR												

Type & Size OD - Outside Dia. NB - Nominal Bore	Ultimate Breaking Load	Safe Pulling Load with Chain Pulley	Safe Allowable Hydrostatic Pressure (kg/cm ²)	Safe Total Pump Delivery Head (mtr)	Safe Installation Depth (mtr)	Safe Installation Depth (ft)	Weight of Pipes on Suitable Depth in Kg (A)	Weight of Water on Suitable Depth in Kg (B)	Weight of Pump on Suitable Depth (C)	Total Weight on Suitable Depth (A+B+C)
OD : 33mm (1") ND : 25 mm										
Nano 12.5	850	500	12.5	125	25	80	9	15	19.7	43.70
Nano 15	1000	580	15	150	30	99	10	19	19.7	48.70
Medium	1500	800	21	210	65	214.5	26	41	23.2	90.20
Standard	2200	1250	26	300	150	495	75	85	20.8	180.80
OD : 42mm (1.25") ND : 32 mm										
Nano 12.5	1600	800	12.5	125	25	80	11	23	17.8	51.80
Nano 15	1720	900	15	150	30	99	17	28	17.8	62.80
Medium	1800	1150	21	210	65	214.5	39	61	21.8	121.80
Standard	2650	1400	26	250	150	495	99	135	22.6	256.60
OD : 48mm (1.5") ND : 40 mm										
Nano	2000	1000	15	150	30	99	19	33	24.1	76.10
Medium	2300	1200	21	210	65	214.5	41	72	24.5	137.50
Standard	3200	1500	26	260	120	396	97	127	35.9	259.90
Heavy	4200	2000	35	350	160	528	174	162	41.6	377.60
OD : 60mm (2") ND : 50 mm										
Nano	2730	1750	13	90	30	99	21	68	51.0	140.00
Medium	3040	2000	15	130	65	214.5	54	148	60.0	262.00
Premium	4950	2500	20	170	100	330	116	216	75.0	407.00
Standard	5098	2700	21	200	120	396	154	255	106.0	515.00
Heavy	5682	3200	27	270	180	594	273	368	126.0	767.00
Super Heavy	6200	3600	35	350	225	735	380	440	141.0	961.00
OD : 75mm (2.5") ND : 65 mm										
Medium	4496	2800	13	100	65	214.5	88	181	80.0	349.00
Standard	5934	3600	18	160	120	396	188	321	122.5	631.50
Heavy	7432	4000	26	260	180	594	364	448	176.0	988.00
Super Heavy	9194	4250	35	350	200	660	475	475	203.0	1159.00
OD : 88mm (3") ND : 80 mm										
Medium	5934	4000	11	110	65	214.5	94	325	72.0	491.00
Standard	9112	5010	18	170	120	396	234	578	294.0	1106.00
Heavy	10000	6000	26	200	180	594	475	808	408.5	1691.50
Heavy ++	10500	6200	26	260	190	627	502	853	414.0	1796.00
Super Heavy	12000	6500	35	350	225	742.5	720	993	418.0	2131.00
OD : 113mm (4") ND : 100 mm										
Medium	11402	4500	10	100	65	214.5	179	428	181.0	728.00
Standard	12150	7250	16	150	120	396	343	759	326.0	1428.00
Heavy	15980	12000	26	200	180	594	790	1057	441.0	2288.00
Heavy ++	16636	12500	26	260	190	627	834	1115	452.0	2401.00
Super Heavy	17536	13100	35	350	225	742.5	1199	1306	455.0	2960.00
OD : 140mm (5") ND : 125 mm										
Medium	12000	7540	10	100	65	214.5	272	526	176.0	974.00
Standard	16000	10440	16	160	120	396	558	933	377.0	1868.00
Heavy	17058	16240	26	200	180	594	1123	1282	465.0	2870.00
Heavy ++	18000	17000	26	260	190	627	1185	1354	465.0	3004.00
Super Heavy	30000	18000	35	350	225	742.5	1827	1565	478.0	3870.00

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