

uPVC Column Pipe



Application

- 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

Salient Features

- Corrosion Free & Inert to Chemicals
- Very low friction losses (10 to 30% more water)
- Cost Effective • Energy Saver
- Long Life • Non Toxic
- No Electrolytic Deposition
- Easy Installation & handling

Special Features & 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 sealing 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.

Wall Thickness of Column Pipe										Technical Parameters		
Product Range										All dimensions are in mm		
Nominal Diameter		O.D. Nom	O.D. Over Connection (Max)	Wall Thickness								
				Nano12.5	Nano15	Medium	Standard	Standard++	Heavy	Heavy++	Super Heavy	Extra Super Heavy
mm	inch											
25	1.00"	33.30	46.10	3.65	3.5	3.5	4.8	—	—	—	—	—
32	1.25"	42.16	55.10	4.2	4.2	4.2	5.0	—	6.4	—	6.5	—
40	1.50"	48.26	62.50	—	4.3	4.3	5.2	—	6.5	—	7.0	—
50	2.00"	60.32	79.00	—	4.8	4.8	6.0	6.4	7.3	—	8.0	9.5
53	2.25"	63.00	90.00	—	—	5.0	6.3	—	7.8	—	8.5	—
65	2.50"	75.00	94.50	—	5.0	5.3	6.6	8.0	8.7	—	9.8	12.5
80	3.00"	87.00	114	—	—	6.0	7.4	8.6	9.9	9.9	10.5	13.4
90	3.50"	100.00	136.0	—	—	—	—	—	—	12.8	—	—
100	4.00"	113.00	136.5	—	—	6.5	8.5	11.00	12.0	12.0	12.5	15.0
125	5.00"	141.00	165.0	—	—	7.7	10.2	—	15.0	15.0	16.5	—
150	6.00"	165.00	200.0	—	—	—	—	—	16.5	—	—	—

Pressure Ratings for Column Pipes (Kg/cm ²)										
mm	size	Nano12.5	Nano15	Medium	Standard	Standard++	Heavy	Heavy++	Super Heavy	Extra Super Heavy
25	1.00"	12.5	15	21	26	—	—	—	—	—
32	1.25"	12.5	15	21	26	—	35	—	—	—
40	1.50"	—	15	21	26	—	35	—	35	—
50	2.00"	—	—	15	20	21	27	—	35	40
53	2.25"	—	—	—	18	—	26	—	—	—
65	2.50"	—	11	13	18	21	26	26	35	40
80	3.00"	—	—	11	18	21	26	26	35	40
90	3.50"	—	—	—	—	—	—	32	35	40
100	4.00"	9	—	10	16	21	26	26	35	40
125	5.00"	—	—	10	16	—	26	26	35	—
150	6.00"	—	—	—	—	—	26	—	—	—

Packing Details		(Nos. of Pipes/Bundle)
mm	3 Meter	5.8/6 Meter
1"	25	—
1.25"	25	—
1.5"	20	—
2"	15	—
2.25"	10	5
2.5"	10	5
3"	5"	3
3.5"	3	—
4"	5	3
5"	3	3
6"	2	—

Color Coding of Pipes	
Class of Pipe	Printing Color
Nano	Peacock Blue
Medium	Blue
Standard	Red
Heavy	Green
Heavy++	Light Green
Super Heavy	Black
Extra Super Heavy	Black

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Special Formulation

Pipes are made with specially designed formulation, so that pipes are capable of handling both internal hydro static pressure as well as vertical tensile load due to the column water and pump weight. The special formulation ensure that the threads do not get brittle and break / chip even after loosening and tightening several times during the life span. Special raw materials are used and processed with the latest extrusion technology to make these pipes.

Dual Function of Tulip Riser Pipe

Riser Pipes have a dual function to perform. On one hand to withstand the pump delivery hydro static pressure, which is maximum in the first pipe connected to the pump and may be as high as 35 Kg/ cm² and on the other hand, the top most pipe bears the load of the entire column filled with water & pump which may range up to 2 tons. This type of loading application makes this product unique and requires special manufacturing techniques which is available only with Tulip.

Load & Pressure Technical Data

Type & Size OD- Outside Dia. NB- Nominal Bore	Ultimate Breaki ng Load in Kg	Safe Pulling Load with Chain Pulley in Kg	Safe Allowable Hydrostatic Pressure (Kg/CM ²)	Safe Total Pump Delivery Head Mtr.	Safe Installati on Depth (Mtr.)	Safe Installati on 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 in Kg (C)	Total Weight on Suitable Depth in Kg (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	62.70
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
Heavy	3100	1800	35	280	175	574	113	135	100	348.00
OD: 48mm (1.5") ND: 40 mm										
Nano	2000	1000	15	150	30	99	16	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										
Medium	3040	2000	15	130	165	214.5	54	148	60.0	262.00
Standard	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	6200	3600	35	350	225	735	380	440	141.0	961.00
Ex.Sup.Heavy	6200	3800	37	300	185	750	166	320	150	636.00
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	9194	4250	35	350	200	660	475	475	203.0	1159.0
Ex.Sup.Heavy	10000	4850	37	300	185	750	216	530	200	946.00
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
Ex.Sup.Heavy	12000	6850	37	300	185	750	303	720	250	1273.00
OD: 100mm (3.5") ND: 90 mm										
Heavy++	13568	9350	31	260	190	627	668	980	425.0	2073.00
Super Heavy	13568	9350	35	—	—	750	—	—	—	—
OD: 113mm (4") ND: 100 mm										
Nano	—	4000	—	—	—	—	—	—	—	—
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	441.5	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	20000	18000	35	350	225	742.5	1827	1515	478.0	3870.00