

ASTRAL
BORE-WELL
LEAD FREE UPVC COLUMN PIPES

ASTRAL
CASE - WELL
CASING FOR BOREWELL

ASTRAL
PIPES



With Double
SS Stud Pin
Lock System

Design Patent
Pending

Lead Free
& Heavy
Metal Free



Exporting to several countries

**COLUMN PIPES FOR
SUBMERSIBLE PUMPS**

INTRODUCTION

Astral Bore-well uPVC lead free column pipes have added advantages compared to conventional column pipes available today in Indian market. The product with unique design has undergone stringent testing under critical field conditions to meet or exceed the actual field requirements of products available for similar applications.

FIELDS OF APPLICATION

Water rising for submersibles and jet pumps for irrigation, domestic and industrial applications. Also suitable for long term use in sandy and chemically aggressive water.

FEATURES

- Easy handling, transportation and installation
- Chemical resistant
- Non conductive
- Leak-proof jointing
- High strength and durability
- UV stabilized

INBUILT ONLINE STRIPE

Every BORE-WELL pipe are marked with inbuilt online stripe. This is unique process being pumped through ASTRAL® BORE-WELL column pipes where actual stripe is an integral part of a pipe and there is no printing process done over the manufactured pipe. The major benefit of this unique process is that the customer gets the original ASTRAL® product and not the duplicate one.



WHY ASTRAL BOREWELL COLUMN PIPE





UNIQUE FEATURES :

SPECIAL COMPOUND : Astral Bore-well column pipes are manufactured from "METAL FREE" uPVC compound especially developed by using "JAPANESE TECHNOLOGY" to sustain best column loads, pressure and also encounters the high impact developed during handling, storage and installation. Due to this special compound the TENSILE property of pipe increases which is being tested rigorously using modern testing equipments.

DOUBLE SS STUD PIN LOCK SYSTEM : Every pipe is fitted with coupler having "Double SS Stud Pin Lock" a unique system developed by ASTRAL, which ensures that during installation, application or removal of assembly, the coupler will never be dethreaded from the pipe.



100% HYGIENIC / SAFE FOR DRINKING WATER : Supply of drinking water is 100% hygienic and safe as being pumped through Astral Bore-well column pipes manufactured from special LEAD FREE & HEAVY METAL FREE compound right from the origin of water source beneath the earth at maximum depth.

EFFECTS OF LEAD : Lead exposure is estimated to account for 1,43,000 deaths per year. Lead stored in bones may be

remobilized into the blood during pregnancy, thus exposing the fetus.

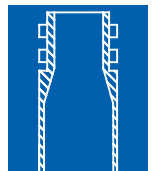
SQUARE THREADS : Unique square threads made on CNC machines provide sufficient grip and additional strength against tensile load. Thus the joint become fairly strong with sufficient factor of safety to take care of load of entire assembly with pump weight. These specially designed threads also make it suitable for easy fitment.



EPDM RING : Specially designed "O" rings provided on the threads makes the joints water tight and absorb pump vibrations. These rings are made from EPDM (Ethylene Propylene Diene Monomer) rubber which is most suitable for drinking water option.



THICK & THIN PROCESS : The pipe ends are specially given the effect of additional wall thickness by using Thick & Thin process to compensate the strength and load bearing capacity caused due to threading of pipes. The effect of Thick & Thin is given to all sizes considering the working conditions & load factor.



uPVC CASING PIPES FOR BOREWELL PIPES

PRODUCT RANGE

Available in CM & CS variant, in the sizes of 4.0 cm (40 mm, 1½") to 25.0 cm (250 mm, 10"), Plain as well Strainer / Filter / Slotted

FEATURES

- Easy to handle • Corrosion free • Best tensile strength • Best impact strength
- Fire resistant • Durable & maintenance free • Non-toxic • Light weight & easy installation



BOREWELL PRODUCT RANGE & TECHNICAL CHART

Nominal Size (cm)	Nominal Size (mm)	Nominal Size (Inch)	Product Discription (Kgf/cm²)	Ultimate Breaking Load (Kg)	Safe Pulling Load with Chain Pulley (Kg)	Safe Total Pump Delivery Head (m)
2.5	25	1	V4 Bell End (12.5 kgf/cm²)	800	400	125
			V4 (12.5 kgf/cm²)	800	400	125
			Medium Bell End (15 kgf/cm²)	1050	620	150
			Medium (16 kgf/cm²)	1050	620	160
			Crystal (21 kgf/cm²)	1250	740	210
			Standard (30 kgf/cm²)	1700	1250	300
3.2	32	1 ¼	V4 Bell End (12.5 kgf/cm²)	1300	740	125
			V4 (12.5 kgf/cm²)	1300	740	125
			Medium Bell End (15 kgf/cm²)	1550	900	150
			Medium (15 kgf/cm²)	1550	900	150
			Crystal (21 kgf/cm²)	2100	1210	210
			Standard (25 kgf/cm²)	2600	1500	250
			Heavy (35 kgf/cm²)	3100	1550	350
			Super Heavy (40 kgf/cm²)	3150	1850	400
4.0	40	1 ½	V4 Bell End (12.5 kgf/cm²)	1700	970	125
			V4 (12.5 kgf/cm²)	1700	970	125
			Medium (15 kgf/cm²)	2000	1250	150
			Crystal (21 kgf/cm²)	2400	1500	210
			Standard (26 kgf/cm²)	3000	1700	260
			Heavy (35 kgf/cm²)	4000	2000	350
			Super Heavy (40 kgf/cm²)	4100	2350	400
5.0	50	2	Eco Medium (8 kgf/cm²)	2150	1180	80
			Eco Medium Plus (10 kgf/cm²)	2250	1225	100
			Medium (13 kgf/cm²)	2900	1550	130
			Crystal (17 kgf/cm²)	3200	1870	170
			Standard (20 kgf/cm²)	3800	2100	200
			Heavy (27 kgf/cm²)	5000	3030	270
			Super Heavy (35 kgf/cm²)	5600	3500	350
5.0+	50+	2 ¼	Super Heavy (35 kgf/cm²)	7600	4200	350
6.5	65	2 ½	Medium (10 kgf/cm²)	3550	1930	100
			Standard (16 kgf/cm²)	5300	2860	160
			Standard Plus (21 kgf/cm²)	5900	3500	210
			Heavy (26 kgf/cm²)	7000	4200	260
			Super Heavy (35 kgf/cm²)	8600	4800	350
8.0	80	3	Medium (11 kgf/cm²)	4500	2500	110
			Standard (17 kgf/cm²)	7200	4110	170
			Standard Plus (21 kgf/cm²)	8200	4850	210
			Heavy (26 kgf/cm²)	10600	6350	260
			Super Heavy (35 kgf/cm²)	11900	6600	350
9.0	90	3 ½	Double Heavy (32 kgf/cm²)	14100	7900	320
10.0	100	4	Medium (10 kgf/cm²)	7500	4100	100
			Standard (15 kgf/cm²)	10500	5800	150
			Standard Plus (21 kgf/cm²)	13000	7650	210
			Heavy (26 kgf/cm²)	16000	9500	260
			Super Heavy (35 kgf/cm²)	19800	11000	350
12.5	125	5	Standard (16 kgf/cm²)	16400	9650	160
			Heavy (26 kgf/cm²)	24200	14600	260
			Super Heavy (35 kgf/cm²)	30500	18600	350

INTRODUCING SHORTLY : 6" (165 MM) - HEAVY



ASTRAL PIPES



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