

Idol



➤ SUBMERSIBLE
COLUMN
PIPE



Application

- » Water rising from submersible and jet pump for irrigation, domestic, industrial mining.
- » A perfect replacement for MS, GI, and SS pipes.
- » Suitable for salty, sandy and chemically aggressive water.

Salient Features of IdôL Column / Drop / Riser Pipes

- » Long life
- » Light in weight & easy to transport.
- » Easy and low installation cost since no need of threading tools or solvent cement for fitment.
- » Cost saver
- » Power saver
- » 10 to 30% extra water
- » No electrolytic deposition
- » No rusting or corrosion
- » High impact resistance

Advantages of IdôL Column / Drop / Riser Pipes

» Manufacturing Process :

IdôL uses latest extrusion technology, standard quality control procedures and has fully equipped laboratory ensuring the best quality of pipes with perfect dimensional accuracy.

IdôL uses CNC machines for threading of pipes and couplers with high accuracy tools to ensure the exact dimensions thereby resulting in easy and comfortable fitment of pipes.

» Special Formulation :

IdôL pipes are made with specially designed formulation, so that the pipes are capable of handling both internal hydro-static pressure as well as vertical tensile load due to the water column and pump weight.

This special formulation also ensures that the threads do not get brittle and break even after loosening and tightening several times during the life span.

» Thick & Thin :

This innovative technique is for making pipes thicker in the threading end to compensate for material removal due to threads. Therefore saves raw material consumption and at the same time provides much higher strength to the pipes.

» Square Threads :

Unique square threads made on CNC machines provide sufficient grip and additional strength against tensile load.

Thus the joint becomes 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.

All threads are checked thoroughly with fitment gauges to ensure 100% accuracy.

» Rubber Ring :

Specially designed "O" rings and "BELT" rings are provided on pipe threads to make the joints watertight, absorb pump vibrations, avoid leakage and over tightening.

» Molecular Orientation :

At IdôL we have developed unique Molecular Orientation Technique during pipe extrusion, which gives higher impact strength to the pipes.

Comparison Chart

Material Property Requirement For Column Pipes	IdôL uPVC Column Pipes	Mild Steel Or Galvanized Steel Pipes
Long life	IdôL uPVC Column Pipes do not react with acidic or alkaline water and have a long life in the bore wells.	Steel pipes are prone to rust, corrosion & ultimately get damaged and need to replace quickly.
Light weight	Pipes are light in weight and are easy to handle, install and remove.	Pipes are heavy and a great effort is required for installation or maintenance. Difficult to handle.
Smooth internal surface	Internal surface is smooth, therefore low head loss due to friction and results in higher discharge of water.	Rough internal surface and head loss is high resulting in less discharge of water.
Leak proof joints	Rubber rings are provided with the threads at every joint ensuring 100% leak proof	Steel pipes are prone to rust, corrosion & ultimately get damaged and need to replace quickly.
Strong threaded joints	Specially designed square thread, which do not corrode rust or deteriorate.	"Threads are prone to rust and corrosion easily."

Technical Chart of IdOL Column Pipes

Nominal Diameter (inch)	Duty	Average Outer Diameter (mm)	Nominal Effective Length (mm)	Thick Portion of Both Side (mm)	Ultimate Breaking Load (kgf)	Safe Pulling Load with Chain Pulley (kgf)	Safe Allowable Hydrostatic Pressure (kg/cm ²)	Safe Total Pump Delivery Head (mt.)	Packing Details Pipes/ Bundle	Colour Code As Per Duty
1"	ECO	33.00 ± 0.50	3050	200	900	550	13	130	30	ORANGE
	MEDIUM		3070	200	1300	750	16	160	30	ORANGE
	STANDARD		3070	200	1950	1150	30	300	30	RED
	HEAVY		3070	200	2200	1600	35	350	30	BLUE
1 ¼ "	ECO	42.00 ± 0.50	3050	200	1350	800	13	130	25	ORANGE
	MEDIUM		3070	200	1850	1150	15	150	25	ORANGE
	STANDARD		3070	200	2600	1550	26	260	25	RED
	HEAVY		3070	200	3100	1850	35	350	25	BLUE
1 ½ "	ECO	42.00 ± 0.50	3050	200	1750	1050	13	130	20	ORANGE
	MEDIUM		3070	200	2100	1300	15	150	20	ORANGE
	STANDARD		3070	200	3050	1750	26	260	20	RED
	HEAVY		3070	200	4100	2475	35	350	20	BLUE
2"	ECO	60.00 ± 0.50	3070	200	2150	1100	9	90	15	ORANGE
	MED. DELUX		3090	200	2550	1350	11	110	15	ORANGE
	MEDIUM		3090	200	2950	1600	13	130	15	ORANGE
	MED. PLUS		3090	200	3150	1900	17	170	15	ORANGE
	STANDARD		3090	200	3850	2150	21	210	10	RED
	STD. PLUS		3090	200	5050	2650	24	240	10	RED
	HEAVY		3090	200	5050	3250	27	270	10	BLUE
	SUPER HEAVY		3090	200	5650	3550	35	350	10	BLUE
2 ½ "	MEDIUM	75.00 ± 0.50	3090	200	3650	2050	10	100	10	ORANGE
	STANDARD		3090	200	5350	2950	16	160	10	RED
	HEAVY		3090	200	7050	4250	26	260	5	BLUE
	SUPER HEAVY		3110	200	9050	5450	35	350	5	BLUE
3"	MEDIUM	88.00 ± 0.50	3080	200	5150	3050	11	10	5	ORANGE
	STANDARD		3080	200	7250	4250	17	170	5	RED
	HEAVY		3080	200	9750	6450	26	260	5	BLUE
	SUPER HEAVY		3080	200	12450	7400	35	350	5	BLUE
4"	MEDIUM	113.00 ± 0.50	3100	200	7550	4250	10	100	5	ORANGE
	STANDARD		3100	200	10550	6050	15	150	5	RED
	HEAVY		3100	200	16050	9750	26	260	5	BLUE
	SUPER HEAVY		3100	200	20700	12200	35	350	5	BLUE

Handling of Pipes

- » On receiving pipes please check and inspect for any form of transport damage due to shift in load or improper handling.
- » Visually examine the ends of pipes for any cracks or damage.
- » Do not throw or drop the pipes on the floor.
- » Do not drag or push the pipes from the truck bed.
- » Contact of pipes from any sharp object should be totally avoided.

Storage of Pipes

- » Pipes should preferably be stored indoors. When this is not possible please ensure that the bundles are covered to prevent exposure to sunlight, and to reduce the effect of U.V. rays.
- » Maximum stacking height of pipes should be 7 feet.
- » Place alternate layers of pipes at an angle of 90 degrees / perpendicular to each other, with the first layer in a square shape.
- » The pipes are stored on level ground free of any sharp objects.
- » If pipes of same diameter but different classes are being stacked together, place the thicker pipes below, i.e. stack heavy pipes below standard pipes.
- » The surface should be dry.

Accessories



Pump Guard Set



Sigri (Pipe lifting)



Spanner (Pipe tightening)



The Ultimate Test: We tested the strength of our pipes against two powerful tractors and the pipe emerged as the Winner!

Installation Procedure



Clean Threads with Water before joining



Fix Bottom Adaptor with Pump



Ensure Pump Guard is Installed Properly



Hold Coupler before Loosening or Tightening of Pipes



Lower **Idol** Column Pipes with Chain Pulley