

uPVC

COLUMN

Pipes



Trouble free long life



Best Piping Solution for Bore wells



Lighter in weight



Fast & Easy Installation



Cost effective



Leak Proof



Unique Super
Lock Technology





Products: CPVC PIPES & FITTINGS | uPVC PLUMBING SYSTEM | PRESSURE PIPES & FITTINGS | SWR DRAINAGE SYSTEM | COLUMN PIPES | WELL CASING PIPES | HDPE PIPES | SPRINKLER SYSTEM

About Apollo Pipes

APOLLO PIPES LTD. is the key group company of Sudesh Group. The company has an enriching experience of decades in manufacturing pipes and related products for all purposes. With a manufacturing plant having 20 extrusion lines and producing 60,000 tonnes of polymers annually, APOLLO PIPES LTD. has the largest manufacturing unit at a single location under one roof in North India. APOLLO PIPES LTD. business activities are focused on development, manufacturing and distribution of Plastic Piping Systems under the brand name of APL APOLLO.

APOLLO PIPES have plants located at Dadri, Sikandrabad (Uttar Pradesh) and Ahmedabad (Gujarat). The plants use flexible manufacturing techniques, greener technologies and modern machinery. We strictly follow the national and international standards while manufacturing all kinds of CPVC Pipes and Fittings, uPVC Plumbing System, uPVC SWR Piping Systems, uPVC Pressure Pipes and Fittings, Elastomeric (Ring Fit Pipes), Column Pipes, uPVC Well Casing Pipes, HDPE Pipes, Sprinkler System and Cable Ducts.



COLUMN PIPES

APL Apollo Column Pipes have been specially designed and manufactured for submersible/bore well under stringent quality standards. They are tested to withstand system load comprising pump, water and Pipe weight with adequate factor of safety. Due to unique design of threads, they can withstand considerable shock and jerk load during operation. Pipes supplied with separate couplers are integrally locked with the Pipes. Couplers are permanently locked with the Pipes by nylon wire which is superior than metallic wire.

APL Apollo Column Pipes for submersible pump offer many advantages like light weight, high tensile load capacity, leak-proof joints and long life with economy and hence, emerges as the best option for conventional metal pipes. These pipes

are available in different classes. Pipes are available in 3 meter length with square threads fitted with rubber sealing ring at male threaded end.

Available in various sizes starting from 33 to 168 mm (1" to 6") diameter, APL Apollo Column Pipes are made of uPVC and are non-corrosive, Hi-tech, Hi-tensile pipes, having a successful installation track record of over 10 years across the globe. The thick and thin technology to ensure uniform thickness across the length of the pipe and the square threads for extra strength, are some of the unique features of APL Apollo Column Pipes. These pipes are available in light duty, medium duty, standard duty, heavy duty and super heavy duty for varying needs based on installation depths up to 400 mtrs.



WHY APL APOLLO COLUMN PIPES ?

Property requirement for Drop/Riser Pipes	APL Apollo Column Pipes	Mild Steel Or Galvanized Steel Pipes	HDPE Pipes
Rigidity requirement so that Drop/Riser pipes and pump is vertical for proper NRV function	Pipes are rigid	Pipes are rigid	Pipes are flexible hence, not suitable for Drop/Riser application. Pipes are also soft and over long-term use with heavy pump set they elongate and lose their shape permanently. In the process of elongation they become thin and break
Strong threaded joints required for holding the column and submersible pump load	Specially designed square threads have very high load holding capacity and these threads do not corrode or rust or deteriorate	The threads are prone to corrosion and rusting. Since the threads do not have a layer of Galvanization, after 2-3 years of use the old thread has to be cut out and new threads have to be made on the pipes on lathe machine due to rusting problem. Money and effort is spent in making new threads and the user ends up with a shorter length of pipe	The threads cannot be formed as these pipes are soft and therefore the jointing of the pipe with the pump or at the top with any fixture is simple push type joint
Leak-proof joints required for saving every drop of water	Special rubber seals are provided with the thread to ensure 100% leak proof at high pump pressure	These threads are not pressure tight and do not have any rubber sealing system. Therefore, not leak-proof	Threads are weak and open up during use
Smooth Internal Surface	Since the internal surface is very smooth therefore head loss due to friction is low and water discharge is more by 10%-30%	Internal surface is rough and head loss is high	Internal surface not as smooth
Light weight of pipe and ease in installation	Pipes come in 3 metres standard length and are light weight for easy handling both during pump fitment and also removal	Pipes are heavy and great effort is required for installation and removal of pumps. In deeper bore wells the column of pipe becomes very heavy and are prone to accidents during handling	Becomes hard and cannot be rolled back during removal. Pulling with tractor disturbs the crop
Long life	APL Apollo Drop/Riser pipes do not react with acidic or alkaline water and also have a very long life inside the bore well	Steel pipes are prone to rust, corrosion and ultimately get damaged and have to be replaced very quickly	Strength of material being very less, very thick pipes are required for high pressure application. This reduces the internal area for water flow considerably. Hence, thin pipes are used for high pressure application and the pipes burst in 2-3 years

COLUMN PIPES FEATURES & BENEFITS

Manufactured from quality raw material	APL Apollo Column Pipes offer high strength & durability
World class machining	Manufactured on most sophisticated, state-of-the-art machines to ensure a flawless product at every time
Easy handling, transportation & installation	APL Apollo Column Pipes are lighter in weight than the conventional metal pipe

Economical	<ul style="list-style-type: none"> • APL Apollo Column Pipes cost less, than the other alternates • Cost of transportation, handling and installation is lower, being lighter in weight no cranes, welding machines or diesel gensets are not required for installation
Excellent chemical resistance	<ul style="list-style-type: none"> • APL Apollo Column Pipes is non-reactive with acidic & alkali substances in water • Non-corrosive and ensure a longer lifecycle
Non-conductive	Offer excellent life avoiding electro chemical reactions, which generally leads to encrustation of pipes
Longevity of lifecycle	APL Apollo Column Pipe generally have a lifecycle up to 50 year, which saves on replacement & replenishment cost
Quality water	APL Apollo Column Pipes doesn't impart any colour, odour or taste
Manufactured under stringent quality standards	APL Apollo Column Pipes offer high strength to withstand the system load including the pipe weight, the pump weight & the water
APL Apollo super lock system	APL Apollo Column Pipes are sealed with the coupler with the unique APL Apollo super lock system to ensure the coupler does not come out while installation and removal of the pumps & to avoid slipping of the column during operation
Exceeds in reliability	Specially designed threads, crafted on specialised CNC machines provide excellent load bearing capacity
Low frictional losses	Smoother (inner) surface as compared to the alternate products keeping frictional losses to the minimal
Leaf proof joints special rubber seal are provided along with the threads	Special rubber seal are provided along with the threads to ensure leak-proof joints at high pressure, ensuring smooth & optimum functioning of the system

uPVC Column Pipe Load & Pressure Technical Chart

Sizes & Types	Ultimate Breaking Load (in Kgs)	Safe Pulling Load With Chain Pully (in Kgs)	Safe Allowable Hydro Static Pressure (KG/CM ²)
OD:33mm, NB:25 mm (1")			
LIGHT	1000	700	15
MEDIUM	1700	1000	21
STANDARD	1800	1300	30
OD:42mm, NB:32 mm (1^{1/4}")			
LIGHT	1500	1000	15
MEDIUM	1900	1100	21
STANDARD	2600	1500	25
HEAVY	3100	1550	35
OD:48 mm, NB:40 mm (1^{1/2}")			
LIGHT	2000	1200	15
MEDIUM	2500	1400	21
STANDARD	3000	1700	26
HEAVY	4000	2000	35
OD:60 mm, NB:50 mm (2")			
LIGHT	2500	1300	11
MEDIUM	2800	1500	13
STANDARD	3800	2100	20
HEAVY	4700	2850	27
SUPER HEAVY	5600	3500	35

uPVC Column Pipe Load & Pressure Technical Chart

Sizes & Types	Ultimate Breaking Load (in Kgs)	Safe Pulling Load With Chain Pully (in Kgs)	Safe Allowable Hydro Static Pressure (KG/CM ²)
OD:75 mm, NB:65 mm (2^{1/2"})			
MEDIUM	3500	1900	10
STANDARD	5000	2700	16
HEAVY	7000	4200	26
SUPER HEAVY	8800	4900	35
SUPER HEAVY PLUS	10000	5600	40
OD: 88 mm, NB:80 mm (3")			
MEDIUM	5000	2750	11
STANDARD	7000	4000	17
HEAVY	9500	5700	26
SUPER HEAVY	12100	6800	35
OD: 113 mm, NB:100 mm (4")			
MEDIUM	7500	4100	10
STANDARD	10300	5700	15
HEAVY	16000	9500	26
SUPER HEAVY	20100	11300	35
OD: 140 mm, NB:125mm (5")			
MEDIUM	11000	6100	10
STANDARD	16000	9000	16
HEAVY	24600	13800	26
SUPER HEAVY	31100	17400	35
OD: 168 mm, NB:150 mm (6")			
STANDARD	21000	11500	17
HEAVY	36000	20500	26

Accessories for Column Pipes

Pump Guard S.S.		Apollo Adaptors			
4 Roads (Sizes in inches)	2 Roads (Sizes in inches)	Adoptors Top S.S. 304 (Sizes in inches)	Adoptors Bottom S.S. 304 (Sizes in inches)	Adoptors Top C.I-25 (Sizes in inches)	Adoptors Bottom C.I-25 (Sizes in inches)
		1"	1"	1"	1"
1 ^{1/4"}	1 ^{1/4"}	1 ^{1/4"}	1 ^{1/4"}	1 ^{1/4"}	1 ^{1/4"}
1 ^{1/2"}	1 ^{1/2"}	1 ^{1/2"}	1 ^{1/2"}	1 ^{1/2"}	1 ^{1/2"}
2"	2"	2"	2"	2"	2"
2 ^{1/2"}	2 ^{1/2"}	2 ^{1/2"}	2 ^{1/2"}	2 ^{1/2"}	2 ^{1/2"}
3"	3"	3"	3"	3"	3"
4"	4"	4"	4"	4"	4"
5"	5"	5"	5"	5"	5"
6"	6"	6"	6"		

Installation Guide



1

Before opening or joining the pipe/ adopter ensure to hold the coupler by hand.



2

Join the metal connector with submersible pump with the help of chain wrench.



3

Tighten pipe till half rubber ring is seen with hand last jerk with rope it required.



4

Before joining the pipes, ensure to clean the threads with clean water.



5

Before joining the pipes, ensure that the pump guard is installed properly.



6

At the time of lowering pipes, place the clamp below the coupler clamp the top adopter with the last pipe.

Our Product Range

CPVC Pipes & Fittings :

APL Apollo CPVC Pipes & Fittings (as per ASTM D-1784, ASTM D-2846, ASTM F-439, ASTM F-441, ASTM F-438 & ASTM F-493) is a safe, long lasting and cost-effective solution for hot and cold water. This system is suitable for all plumbing and potable water application.

uPVC Plumbing System :

APL Apollo uPVC Plumbing System (as per ASTM D-1785 & ASTM D-2467) being lead-free and non-toxic is favourable for carrying potable water. It is used for high pressure water distribution plumbing in residential, commercial and industrial buildings.

Pressure Pipes & Fittings :

These pipes and fittings are used in variety of applications like irrigation , water supply, industrial process line, swimming pools, fire fighting, etc.

SWR Drainage System :

APL Apollo uPVC SWR Piping System (as per IS:14735-99 & IS:13592-92) is an easy & economical product, ideal for drainage of soil waste and rain water application in residential, commercial and Industrial buildings.

Well Casing Pipes :

APL Apollo uPVC Well Casing Pipes an ideal preference for applications like protection of domestic, irrigation, industrial and mining borewells.

HDPE Pipes :

HDPE is strongly resistant to stress cracking and has low creep rupture properties. It has excellent insulation properties over a wide range of frequencies and is not chemically active.

Sprinkler System :

APL Apollo Sprinkler System (as per IS:14151) is suitable for almost all field crops like wheat , gram, pulses as well as vegetables, cotton, soya bean, tea, coffee and other fodder crops, Suitable for residential, industrial, hotel, resorts, public & government enterprises, golf links, race courses, etc.

