



OPTIMISED FOR SUBMERSIBLE PUMPS



uPVC Column Pipe | uPVC Casing Pipe | uPVC Piezometric Pipes
uPVC Pressure Pipe | SWR Pipe / Drainage Pipe | Plumbing Pipe



Vinyl Column Pipe
Super Strong
Rust Free Pipes for
Submersible Pumps that
improves overall **Life and**
Efficiency of the Water Well
available from 1" To 6",
suitable upto 45 Bars and
1400 Fts.



PATENT APPLIED
Load Bearing
POWER LOCK™
Technology



Keeps the water quality
untouched



APPLIED FOR



ABOUT US

Who We Are

Family Run business for 8 decades
dedicated in moving water

We, at Vinyl Tubes Private Limited, are amongst the leading names in the piping and related product segments. The company, founded by Mr. Jaychand Jain in 1941, has emerged as one of the most trusted brands for uPVC pipes and fittings because of our utmost focus on quality. Under the aegis of his son Mr. Hukum Chand Jain and grandson, Mr. Vitul Jain, the company has managed to demonstrate outstanding competence and extraordinary team spirit.

Our prominence in the pipe manufacturing sector is a result of our reliance on efficient technologies and our propensity to leverage our proprietary knowledge by utilizing polymers in the water industry. As an organization that is fully committed to delivering results through an environmental-friendly approach, we use recyclable polymers for the complete water cycle.

The company, founded by Mr. Jaychand Jain in 1941, has emerged as one of the most trusted brands for uPVC pipes and fittings because of our utmost focus on quality.

What We Do

We develop and deploy best technology
and practices to achieve our mission

With approximately eight decades of experience in the Indian Pipe Market, we have explored the strong growth fundamentals in the Indian pipe industry. Through our consistent endeavors, we have managed to successfully optimize our production, processes, and quality control systems. Through the development and manufacturing of the strongest, safest, and most efficient wide range of upvc pipes for all water applications, we ensure the reliability and efficiency of water supply systems across the globe.

We have unfolded new dimensions of development and progress through our initiatives and cherish a strong reputation for high-quality products and a reliable distribution network. We deal in a wide range of products such as well casing pipes, pressure pipes, column pipes, and their respective fittings, which find application in irrigation, sanitation, housing, and drainage.

Our technology patent applied of power lock in column pipes has helped us develop pipes for a range of water applications. We already have piping solutions for over a million borewells with the same technology and power lock. Our power lock technology endows us with the ability to develop pipes that are at par with global standards

Thus, we look forward to
**saving 1.30 billion
units** of electricity
through our efforts.



The Power of Brand Vinyl

Satisfaction is more important than commercials

For us, our brand value isn't confined to the financial output that we generate through our customers. We are a customer-centric firm and the consumer satisfaction that we generate through our products and services is the most crucial denominator of our brand value for us. We firmly believe that larger the impact we make on our customers' lives, the bigger we evolve as a company that revolves around customer satisfaction.

Our Technology and R&D

Develop and deploy

Our in-house RnD team provides us with the agility and expertise to not just develop high-quality products but also surpass the global standards of manufacturing. Our power lock technology provides us with control over the quality of our products. Also, the ownership of patents and proprietary know-how gives us the manufacturing prowess and helps us design the most extraordinary piping solutions.

Why We Exist

Ensuring water for everyone

We, at Vinyl Pipes, are deeply committed toward consistent innovations in irrigation, drainage, and plumbing technologies. These innovations are driven by the need to meet the country's rapidly increasing water demands. All our products go through extensive quality control tests to ensure that they conform to both Indian as well as international standards.

Our focus on 100% customer satisfaction has driven us to continually improvise on the product quality, enhance ease of use, improve availability, and cost-performance. Thus, we seek to give our valuable customers access to the best, the latest, the most cost-effective products.

Our sustainability efforts are driven by a two-pronged approach of the green cycle and blue cycle. While our green cycle method revolves around the recycling of polymers, our blue cycle approach is focused on the judicious reuse of water in the cycle.

Objective

Quality and absolute customer satisfaction are the core objectives of all operations at Vinyl Pipes. Through a stringent control right from the procurement stage of raw materials to the manufacturing process, we ensure that the high quality remains the main USP of all our items.

Our Core Values

- Utmost customer satisfaction.
- Quality and timely delivery.
- Innovation-driven approach.
- Fair and transparent industry practices.
- Equal opportunities for human resource development.
- Social responsibility

Our Vision : Global Leader in the Water Pipe

To emerge as the global leader in the water pipe industry through the development and adoption of new technology and the relentless process of transforming innovative ideas into extraordinary realities.

Our Mission

To acquire the leadership position by providing a cost effective solution for water piping ensuring customer satisfaction by contributing to their success.

Our Goal

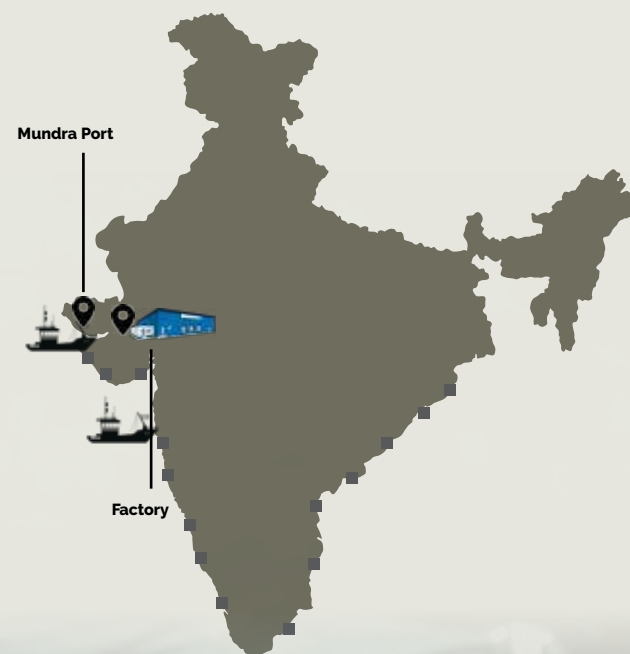
To make every water supply bore well across the globe highly efficient with excellent safety levels while maintaining its affordability at all times. Thus, we look forward to saving **1.30 billion** units of electricity through our efforts.

STRATEGIC INTENT परस्परोग्रहो जीवानाम्

- Tattvārtha Sūtra [5.21]

Nothing sums up our business intent better than this Jain aphorism, which says that all life is bound together by mutual support and interdependence. It essentially means that all organisms are mutually beneficial to each other. Life can, therefore, be viewed as a gift of togetherness, accommodation and assistance in a universe teeming with interdependent constituents.

NEAR TO PORT





Facing issues with **Regular Water Supply?**

Water is a basic necessity of life. It is just 3 Days that a human can survive without this resource.

With water sources present miles away, most houses without piping systems have to depend on tankers and wells to fulfill their water needs. In some places, the situation is so dire that people walk hundred of kilometers just to get a few litres of water.

An efficient piping system has become an indispensable tool to ensure people have access to the basic necessity of their life. From far away water resources to taps, showers, tanks and water filters, pipes have become the simplest way to ensure you get water wherever you need.

RUSTY PIPES ARE MESSING UP WITH **YOUR HEALTHY LIFE**

In urban areas, people have an easier life than those living in rural areas. They also have easy access to a regular water supply. But ask yourself, is this water supply clean enough to be utilised?

Rusting, a natural oxidative phenomenon is the second-leading cause of pipe damage in cast iron, copper, and galvanized steel pipes. Once rusting happens, a host of problems follow.

Water becomes discolored, develops a metallic odour and gets contaminated with rust flakes, making it impotable. It can even stain clothes and alter the taste of edible materials. Another major problem is the pollution of the soil through which the rusted water flows.

Rusting deteriorates the quality of iron pipes to such an extent that it eventually leads to a leakage in the piping system. This can also lead to a collapse in the borewells in which they are fitted. These are just a few in a long list of issues that can arise when your pipes get rusted.



Why pump companies prefer VINYL?

We are the choice of professional drilling community globally

**Overall improvement in water well efficiency
Not just pumps efficiency!**



Specially created to provide a robust solution to all your water management needs,

Vinyl Column Pipes provide the most exhaustive range of column pipes. These pipes from Vinyl are the perfect solution for the accessibility and potability of water.

The first and the most crucial feature of these column pipes is that they are rust-free, unlike the iron column pipes. This rust-free quality ascertains the purity of the water. In addition to this, this quality prevents the soil from getting polluted where the water flows. These pipes also prevent any sort of leakage in the piping system as they are free from rust. Collapsing of borewells, which is a very common thing in iron pipes is absent in these column pipes.

Another striking quality of these pipes is that they have a very smooth surface which leads to negligible frictional losses. This quality thus enables in very low consumption of energy, unlike the rusty iron pipes which consume a lot of energy. These column pipes have a very high tensile strength, enabling them to have a long life of 50 years. Unlike iron pipes, they can be recycled for upto 150 years with a high resale value that periodically increases by 7%. These pipes make your pump stay healthy for a very long period with zero corrosion. They also save your pockets with minimal maintenance costs.



Why We STAND OUT?

Vinyl column pipes is a top-notch solution to all your water management needs. We offer a host of innovative benefits that give us an extra edge over other pipes. From a one-of-a-kind power lock feature to unique wall information, Vinyl promises many traits that are hardly found in other pipes.

Power Lock - The Vinyl Column Pipes are installed with a power lock feature which is absent in steel or iron pipes. This power lock is made with an aerospace engineering plastic grade. It works as a restraining member between pipes and coupling. Keeping in view the ease of installation, it has been designed to keep the pipes 100% load proof.

Such a power lock feature also keeps the pipe free from any kind of leakage or jerk. All these features together contribute to making this power lock a very indispensable feature. This power lock feature is used in these column pipes for submersible pumps and panels.

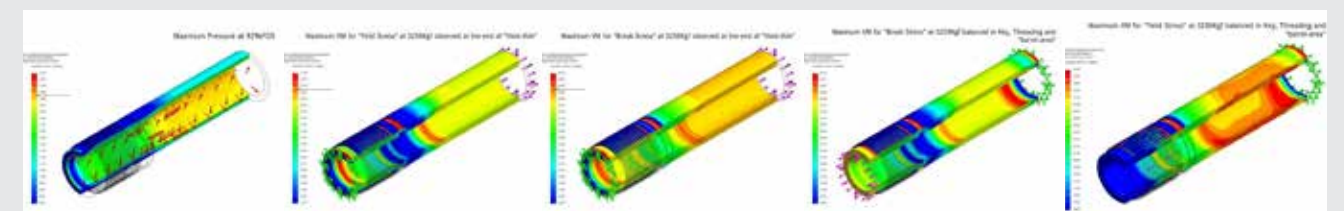
Stress-free pipe - One of the most striking features of these column pipes from Vinyl is that they are stress-free. The uPVC undergo various processes and tests under high temperature to provide its users with guaranteed stress-free pipes.

One of these processes being the Annealing process, in which all the material is aligned together.

This enhances the mechanical property of the pipes, further increasing their life cycle. So, before the final product is released, Vinyl column pipes undergo a stringent testing process to ensure long life and durability.



PATENT APPLIED
Load Bearing
POWER LOCK™
Technology



Diving Deeper into Vinyl **COLUMN PIPES**

Features

Excellent compounding: The Vinyl uPVC column pipes have a composition of:

92

% PVC Polymer content,

3

% reinforcing agents, and Additives

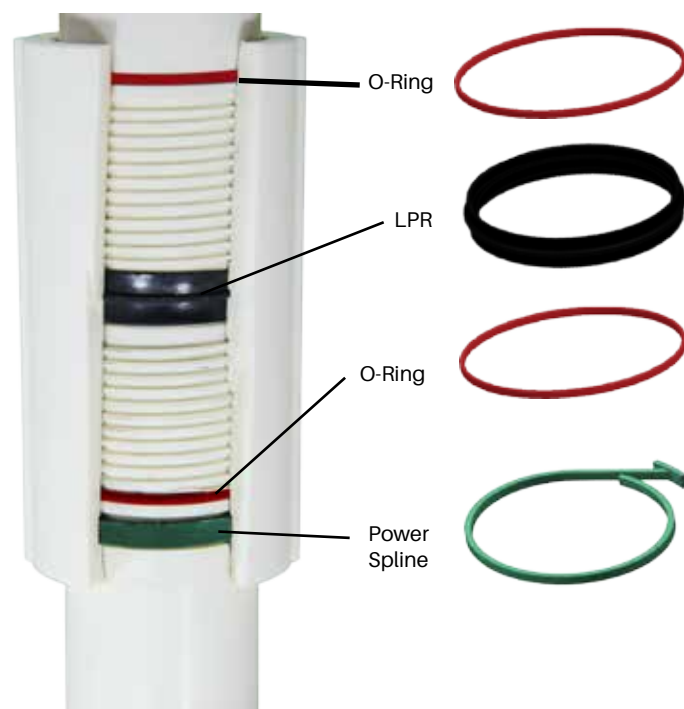
3

% Titanium.

It also has high-impact modifiers for proper blending.

100%

Load Proof
Leak Proof
Jerk Proof
Torque Proof
Fail Proof



- **High-quality processing:** To ensure high durability, Vinyl column pipes have a biaxially oriented extrusion which provides a high tensile strength to the pipes.
- **Polyvinyl Chloride:** The Vinyl column pipes are made up of Polyvinyl Chloride to ensure toughness to the pipes, keeping them lightweight at the same time.
- **Explicit operating parameters:** Keeping efficient functioning in mind, these pipes are prepared with Carbide quoted screw tooling. They are also made to undergo Annealing to ensure the longevity of the pipes.
- **Adaptable designing:** These pipes are specially manufactured for adapting with high pressure. They are also thickened for adjusting in large depths.
- **High tensile strength:** To bear high resistance towards pressure, these pipes have high tensile strength and load capacity. They also have high mechanical strength.
- **Thick and thin:** The thick and thin portions of the Vinyl column pipes have been developed in such a way to absorb the full torque produced due to the motor thus resulting in longevity.
- **Safe and suitable for huge depths:** These uPVC Vinyl Column Pipes have been designed especially for large depths of up to 1400 ft.



Benefits



- **100% Resistance to corrosion:** The Vinyl Column Pipes are highly resistant to rusting, thereby ensuring potable water.



- **0 Zero maintenance cost:** The corrosion-resistant property of the Vinyl manufactured pressure pipes eliminate the repeated coating requirements thus making the product maintenance free.



- **5 x High durability:** The pipes have a very high tensile strength which makes them very strong and reliable products. They have an average life cycle of 50 years.



- **60% Cost-effective:** These uPVC column pipes from Vinyl are 60% cheaper than other iron or steel pipes. This cost-effectiveness quality makes them appealing to use.



- **1/6 Lightweight:** Extremely lightweight, the uPVC Column Pipes are superior and function for a comparatively longer period than other iron or steel pipes. 1/6th weight of Iron but 2x strength of iron pipe/steel pipe. This lightweight quality of these pipes enables very easy installation, transportation, handling, and replacement.



- **23% Consume less energy:** These uPVC Column Pipes have a very smooth surface that leads to no frictional losses. This enables easy flow of water, ultimately leading to the least consumption of energy.



- **100% Free from leakage:** Manufactured from high-quality material, these column pipes from Vinyl are free Leakproof and are also 100% load-proof.



- **High value:** These column pipes have a high resale value which further keeps on increasing periodically by 7%.

- Temperature Resistance up to 60°C of water

C - 1212 SERIES : PROFESSIONAL GLOBAL

Size	Class	Type	O.D.	Thickness	Finish Wt	Threads Pitch (Mm) Threads	No of threads	Coupler Length	Pressure Kg/ Cm2	Pump Head (Mtr/ Ft.)	Safe Pulling Load With Chain pully kgf	Ultimate Breaking Load Kg/	Net Length Of Pipe	Package Per bundle
1"	V4 (15.00)	Bell Joint	33.2	4	1.1	3	12	0	15	150	600	1000	3050	25
1"	V4 (15.00)	Coupler	33.2	4	1.25	3	12	130	15	150	600	1000	3050	25
1"	Medium	Bell Joint	33.2	4.3	1.25	3	12	0	21	160	750	1250	3050	25
1"	Medium	Coupler	33.2	4.3	1.42	3	12	130	21	160	750	1250	3050	25
1"	Standard	Coupler	33.2	6	1.92	3	12	130	30	300	1100	1900	3050	25
1¼"	V4 (15.00)	Bell Joint	42.2	4.5	1.4	3	12	0	15	150	900	1550	3050	25
1¼"	V4 (15.00)	Coupler	42.2	4.5	1.55	3	12	130	15	150	900	1550	3070	25
1¼"	Medium	Bell Joint	42.2	4.9	1.7	3	12	130	21	160	1000	1800	3050	25
1¼"	Medium	Coupler	42.2	5.2	1.97	3	12	130	21	160	1000	1800	3070	25
1¼"	Standard	Coupler	42.2	6.5	2.47	3	12	130	25	250	1500	2550	3070	25
1¼"	Standard (L)	Coupler	42.2	6.5	2.56	4	14	160	25	250	1500	2550	3100	25
1¼"	Heavy	Coupler	42.2	7.7	3.35	3	12	130	35	350	1700	3100	3070	25
1¼"	Heavy (L)	Coupler	42.2	7.7	3.45	4	14	160	35	350	1700	3100	3100	25
1¼"	Super Heavy	Coupler	42.2	8.8	3.66	4	14	160	40	400	1850	3500	3100	25
1½"	V4 (15.00)	Bell Joint	48.2	4.8	1.9	3	12	0	15	150	1200	2000	3050	20
1½"	V4 (15.00)	Coupler	48.2	4.8	2.05	3	12	145	15	150	1200	2000	3070	20
1½"	Medium	Bell Joint	48.2	5.4	2.1	3	12	0	21	160	1500	2550	3050	20
1½"	Medium	Coupler	48.2	5.4	2.4	3	12	145	21	160	1500	2550	3070	20
1½"	Standard	Coupler	48.2	6.2	2.95	3	12	145	26	260	1700	2950	3070	20
1½"	Standard (L)	Coupler	48.2	6.2	3.05	4	14	160	26	260	1700	2950	3100	20
1½"	Heavy	Coupler	48.2	8.7	4.1	3	12	145	35	350	2350	4000	3070	20
1½"	Heavy (L)	Coupler	48.2	8.7	4.16	4	14	160	35	350	2350	4000	3100	20
1½"	Super Heavy	Coupler	48.2	9.7	4.9	4	14	160	40	400	2400	4200	3100	20
2"	Medium	Coupler	60.3	5.2	3.05	4	11	160	15	150	1450	2450	3090	15
2"	Maxx	Coupler	60.3	5.9	3.4	4	11	160	17	210	1850	3100	3090	15
2"	Standard	Coupler	60.3	6.6	3.95	4	11	160	20	250	2100	3600	3090	15
2"	Standard (L)	Coupler	60.3	6.6	4.1	6	13	230	25	250	2100	3600	3100	15
2"	Heavy	Coupler	60.3	8.3	4.93	4	11	160	27	270	2800	4700	3090	10
2"	Heavy (L)	Coupler	60.3	8.3	5.25	6	13	230	27	270	2800	4700	3130	10
2"	Super Heavy	Coupler	60.3	9.5	6.3	6	13	230	35	350	3350	5600	3130	10
2"	Super Heavy Plus	Coupler	60.3	11.1	7.2	6	13	230	40	400	3500	6200	3130	10
2¼"	Heavy Plus	Coupler	63.3	9	6.4	6	13	230	30	300	3400	5750	3130	10
2½"	Medium	Coupler	75.3	5.5	3.95	4	11	160	10	120	1800	3100	3090	10
2½"	Maxx	Coupler	75.3	5.9	4.4	4	11	160	15	150	2350	3500	3090	10
2½"	Standard	Coupler	75.3	6.6	4.95	4	11	160	17	170	2700	4550	3090	10
2½"	Standard (L)	Coupler	75.3	6.6	5.22	6	13	230	17	170	2700	4550	3130	10
2½"	Standard PLUS	Coupler	75.3	8.4	6.6	4	11	160	21	210	3500	5900	3090	10
2½"	Standard PLUS (L)	Coupler	75.3	8.4	6.98	6	13	230	21	210	3500	5900	3130	10
2½"	Heavy	Coupler	75.3	9.5	7.15	4	11	160	26	260	4200	7000	3090	8

C - 1212 SERIES : PROFESSIONAL GLOBAL

Size	Class	Type	O.D.	Thickness	Finish Wt	Threads Pitch (Mm) Threads	No of threads	Coupler Length	Pressure Kg/ Cm2	Pump Head (Mtr/ Ft.)	Safe Pulling Load With Chain pully kgf	Ultimate Breaking Load Kg/	Net Length Of Pipe	Package Per bundle
2½"	Heavy (L)	Coupler	75.3	9.5	7.55	6	13	230	26	260	4200	7000	3130	8
2½"	Super Heavy	Coupler	75.3	11.5	9.05	6	13	230	35	350	5300	9000	3130	8
2½"	Super Heavy Plus	Coupler	75.3	12.5	10.78	6	13	230	40	400	5900	10300	3130	8
3"	Medium	Coupler	88.3	6.2	5.5	4	11	160	11	110	2600	4450	3090	5
3"	Maxx	Coupler	88.3	6.8	6.2	4	11	160	12.5	125	3300	5450	3090	5
3"	Standard	Coupler	88.3	7.6	6.55	4	11	160	17	170	4000	6800	3090	5
3"	Standard(L)	Coupler	88.3	7.6	6.9	6	13	230	17	170	4000	6800	3130	5
3"	Standard PLUS	Coupler	88.3	9.5	8.62	4	11	160	21	210	4850	8200	3090	5
3"	Standard PLUS(L)	Coupler	88.3	9.5	9.1	6	13	230	21	210	4850	8200	3130	5
3"	Heavy	Coupler	88.3	10.1	9.4	4	11	160	26	260	5600	9600	3090	5
3"	Heavy(L)	Coupler	88.3	10.1	9.85	6	13	230	26	260	5600	9600	3130	5
3"	Super Heavy	Coupler	88.3	13	13.2	6	13	230	35	350	7200	12400	3130	5
3"	Super Heavy PLUS	Coupler	88.3	15.2	14.85	6	13	230	40	400	8000	15000	3130	5
3¼"	Heavy Plus	Coupler	100.3	13.5	15	6	13	230	30	280	8600	14600	3130	5
4"	Medium	Coupler	113.3	6.7	7.5	6	8	175	10	100	4000	6800	3090	4
4"	Maxx	Coupler	113.3	7.4	9.1	6	8	175	12	120	4800	7500	3090	4
4"	Standard	Coupler	113.3	8.5	10.1	6	8	175	15	150	5900	10000	3090	4
4"	Standard (L)	Coupler	113.3	8.5	10.9	6	17	280	15	150	5900	10000	3100	4
4"	Standard PLUS	Coupler	113.3	11.3	13.95	6	8	175	21	210	7550	13000	3090	4
4"	Standard PLUS(L)	Coupler	113.3	11.3	14.85	6	17	280	21	210	7550	13000	3130	4
4"	Heavy	Coupler	113.3	12.6	15.35	6	8	175	26	260	9200	16000	3090	4
4"	Heavy (L)	Coupler	113.3	12.6	16.6	6	17	280	26	260	9200	16000	3130	4
4"	Super Heavy	Coupler	113.3	16.4	22.1	6	8	280	35	350	12000	20600	3130	4
4"	Super Heavy PLUS	Coupler	113.3	19.2	25.1	6	17	280	40	400	14200	25000	3130	4
5"	Standard	Coupler	140.3	12	18.65	6	14	230	16	150	9650	16000	3110	2
5"	Standard (L)	Coupler	140.3	12	20.2	6	19	300	16	150	9650	16000	3110	2
5"	Heavy	Coupler	140.3	16	25.36	6	14	230	26	225	14500	24000	3160	2
5"	Heavy (L)	Coupler	140.3	16	27.04	6	19	300	26	225	14500	24000	3160	2
5"	Super Heavy	Coupler	140.3	18.3	31.64	6	19	300	35	300	18700	30500	3160	2
5"	Super Heavy Plus	Coupler	140.3	20	34.1	6	19	300	40	330	20000	29800	3160	2
6"	Standard	Coupler	168.3	12.8	24.6	6	14	230	17	135	16000	25500	3110	2
6"	Heavy	Coupler	168.3	17	32	6	19	300	26	220	23500	40000	3160	2
6"	Super Heavy	Coupler	168.3	21.30	37.480	6	19	300	35	250	25000	37500	3160	2

C - 1835 SERIES : OPTIMA GLOBAL

Size	Class	Type	O.D.	Thk.	Finish Wt	Threads Pitch (Mm) Threads	No of threads	Coupler Length	Pres- sure Kg/ Cm2	Pump Head (Mtr/ Ft.)	Safe Pulling Load With Chain pully kgf	Ultimate Breaking Load Kgf	Net Length Of Pipe	Pack- age Per bundle
1"	V4 (12.5)	Bell Joint	33.2	4	1.1	3	12	0	12.5	150	600	1000	3050	25
1"	V4 (12.5)	Coupler	33.2	4	1.25	3	12	130	12.5	150	600	1000	3050	25
1"	V4 (15.00)	Bell Joint	33.2	4	1.1	3	12	0	15	150	600	1000	3050	25
1"	V4 (15.00)	Coupler	33.2	4	1.25	3	12	130	15	150	600	1000	3050	25
1"	Medium	Bell Joint	33.2	4.3	1.25	3	12	0	21	160	750	1250	3050	25
1"	Medium	Coupler	33.2	4.3	1.42	3	12	130	21	160	750	1250	3050	25
1"	Standard	Coupler	33.2	6	1.92	3	12	130	30	300	1100	1900	3050	25
1¼"	V4 (12.5)	Bell Joint	42.2	4.5	1.4	3	12	0	12.5	150	900	1550	3050	25
1¼"	V4 (12.5)	Coupler	42.2	4.5	1.4	3	12	0	12.5	150	900	1550	3050	25
1¼"	V4 (15.00)	Bell Joint	42.2	4.5	1.4	3	12	0	15	150	900	1550	3050	25
1¼"	V4 (15.00)	Coupler	42.2	4.5	1.55	3	12	130	15	150	900	1550	3070	25
1¼"	Medium	Bell Joint	42.2	4.9	1.7	3	12	130	21	160	1000	1800	3050	25
1¼"	Medium	Coupler	42.2	5.2	1.97	3	12	130	21	160	1000	1800	3070	25
1¼"	Standard	Coupler	42.2	6.5	2.47	3	12	130	25	250	1500	2550	3070	25
1¼"	Heavy	Coupler	42.2	7.7	3.35	3	12	130	35	350	1700	3100	3070	25
1¼"	Super Heavy	Coupler	42.2	8.8	3.66	4	14	160	40	400	1850	3500	3100	25
1½"	V4 (12.5)	Bell Joint	48.2	4.5	1.66	3	12	0	12.5	75	650	700	3050	20
1½"	V4 (12.5)	Coupler	48.2	4.5	1.92	3	12	145	12.5	75	650	700	3070	20
1½"	V4 (15.00)	Bell Joint	48.2	4.8	1.9	3	12	0	15	150	1200	2000	3050	20
1½"	V4 (15.00)	Coupler	48.2	4.8	2.05	3	12	145	15	150	1200	2000	3070	20
1½"	Medium	Bell Joint	48.2	5.4	2.1	3	12	0	15	160	1500	2550	3050	20
1½"	Medium	Coupler	48.2	5.4	2.4	3	12	145	15	160	1500	2550	3070	20
1½"	Standard	Coupler	48.2	6.2	2.95	3	12	145	26	260	1700	2950	3070	20
1½"	Heavy	Coupler	48.2	8.7	4.1	3	12	145	35	350	2350	4000	3070	20
1½"	Super Heavy	Coupler	48.2	9.7	4.9	4	14	160	40	400	2400	4200	3100	20
2"	Express	Coupler	60.3	5.2	3.05	4	11	160	10	150	1450	2450	3090	15
2"	Medium	Coupler	60.3	5.2	3.05	4	11	160	15	150	1450	2450	3090	15
2"	Standard	Coupler	60.3	6.6	3.95	4	11	160	20	250	2100	3600	3090	15
2"	Heavy	Coupler	60.3	8.3	4.93	4	11	160	27	270	2800	4700	3090	10
2"	Super Heavy	Coupler	60.3	9.5	6.3	6	13	230	35	350	3350	5600	3130	10
2"	Super Heavy Plus	Coupler	60.3	11.1	7.2	6	13	230	40	400	3500	6200	3130	10

C - 1835 SERIES : OPTIMA GLOBAL

Size	Class	Type	O.D.	Thk.	Finish Wt	Threads Pitch (Mm) Threads	No of threads	Coupler Length	Pres- sure Kg/ Cm2	Pump Head (Mtr/ Ft.)	Safe Pulling Load With Chain pully kgf	Ultimate Breaking Load Kgf	Net Length Of Pipe	Pack- age Per bundle
2¼"	Heavy Plus	Coupler	63.3	9	6.4	6	13	230	30	300	3400	5750	3130	10
2½"	Express	Coupler	75.3	5.5	3.95	4	11	160	8	120	1800	3100	3090	10
2½"	Medium	Coupler	75.3	5.5	3.95	4	11	160	10	120	1800	3100	3090	10
2½"	Standard	Coupler	75.3	6.6	4.95	4	11	160	17	170	2700	4550	3090	10
2½"	Standard PLUS	Coupler	75.3	8.4	6.6	4	11	160	21	210	3500	5900	3090	10
2½"	Heavy	Coupler	75.3	9.5	7.15	4	11	160	26	260	4200	7000	3090	8
2½"	Super Heavy	Coupler	75.3	11.5	9.05	6	13	230	35	350	5300	9000	3130	8
2½"	Super Heavy Plus	Coupler	75.3	12.5	10.78	6	13	230	40	400	5900	10300	3130	8
3"	Express	Coupler	88.3	6.2	5.5	4	11	160	8	110	2600	4450	3090	5
3"	Medium	Coupler	88.3	6.2	5.5	4	11	160	11	110	2600	4450	3090	5
3"	Standard	Coupler	88.3	7.6	6.55	4	11	160	17	170	4000	6800	3090	5
3"	Standard PLUS	Coupler	88.3	9.5	8.62	4	11	160	21	210	4850	8200	3090	5
3"	Heavy	Coupler	88.3	10.1	9.4	4	11	160	26	260	5600	9600	3090	5
3"	Super Heavy	Coupler	88.3	13	13.2	6	13	230	35	350	7200	12400	3130	5
3"	Super Heavy PLUS	Coupler	88.3	15.2	14.85	6	13	230	40	400	8300	15000	3130	5
3½"	Heavy Plus	Coupler	100.3	13.5	15	6	13	230	30	280	8600	14600	3130	5
4"	Express	Coupler	113.3	6.7	7.5	6	8	175	8	100	4000	6800	3090	4
4"	Medium	Coupler	113.3	6.7	7.5	6	8	175	10	100	4000	6800	3090	4
4"	Standard	Coupler	113.3	8.5	10.1	6	8	175	15	150	5900	10000	3090	4
4"	Standard PLUS	Coupler	113.3	11.3	13.95	6	8	175	21	210	7550	13000	3090	4
4"	Heavy	Coupler	113.3	12.6	15.35	6	8	175	26	260	9200	16000	3090	4
4"	Super Heavy	Coupler	113.3	16.4	22.1	6	8	280	35	350	12000	20600	3130	4
5"	Standard	Coupler	140.3	12	18.65	6	14	230	16	150	9650	16000	3110	2
5"	Heavy	Coupler	140.3	16	25.36	6	14	230	26	225	14500	24000	3160	2
5"	Super Heavy	Coupler	140.3	18.3	31.64	6	19	300	35	300	18700	30500	3160	2
5"	Super Heavy Plus	Coupler	140.3	20	34.1	6	19	300	40	330	20000	29800	3160	2
6"	Standard	Coupler	168.3	12.8	24.6	6	14	230	17	135	16000	25500	3110	2
6"	Heavy	Coupler	168.3	17	32	6	19	300	26	220	23500	40000	3160	2
6"	Super Heavy	Coupler	168.3	21.30	37.480	6	19	300	35	250	25000	37500	3160	2

Frictional Head Loss and Quality Control

The height to which the water is to be pumped has to be precisely estimated. This is most important specially on long upward inclined terrains. The length of the pipeline and the height to which the water is to be pumped together with the depth to low water level and frictional head loss in pipes decide the total head of the pumpset.

APPROXIMATE FRICTIONAL HEAD LOSS IN VINYL COLUMN / RISER / DROP PIPES IN METRE /100 M

Size Type		Discharge of pumpinlpm											
(inch)		40	60	80	100	120	150	180	240	300	360	400	500
1	V4-12.5		6.5438	11.1485	16.8536	23.6231	35.7121	50.0563	85.2796	128.9207	180.7033	219.6388	332.0369
	V4-15	3.3272	7.0502	12.0113	18.1579	25.4513	38.4758	53.9301	91.8793	138.8977	194.6878	236.6365	357.7330
	Max	3.6197	7.6699	13.0670	19.7538	27.6882	41.8574	58.6700	99.9546	151.1055	211.7990	257.4345	389.1743
	Standard	5.1657	10.9458	18.6481	28.1911	39.5145	59.7356	83.7292	142.6473	215.6458	302.2627	367.3901	555.3987
1¼	V4-12.5	0.8905	1.8869	3.2146	4.8597	6.8116	10.2974	14.4335	24.5900	37.1737	52.1050	63.3319	95.7414
	V4-15	0.9758	2.0676	3.5226	5.3252	7.4642	11.2839	15.8162	26.9457	40.7349	57.0967	69.3991	104.9134
	Standard	1.2706	2.6924	4.5869	6.9342	9.7194	14.6932	20.5949	35.0871	53.0426	74.3478	90.3672	136.6118
	Heavy	1.8136	3.8430	6.5472	9.8976	13.8732	20.9726	29.3966	50.0822	75.7113	106.1217	128.9873	194.9954
	SuperHeavy-40	2.4011	5.0877	8.6678	13.1035	18.3667	27.7657	38.9182	66.3039	100.2343	140.4948	170.7667	258.1549
1½	SuperHeavy Plus -45	3.0397	6.4409	10.9732	16.5886	23.2516	35.1504	49.2690	83.9383	126.8929	177.8612	216.1842	326.8145
	V4-12.5	0.4564	0.9671	1.6477	2.4908	3.4913	5.2779	7.3979	12.6036	19.0534	26.7064	32.4607	49.0722
	V4-15	0.5005	1.0605	1.8067	2.7312	3.8283	5.7873	8.1119	13.8200	20.8923	29.2839	35.5936	53.8083
	Max	0.5637	1.1946	2.0351	3.0766	4.3123	6.5192	9.1377	15.5676	23.5342	32.9870	40.0946	60.6126
	Standard	0.6694	1.4185	2.4167	3.6534	5.1208	7.7413	10.8507	18.4861	27.9461	39.1711	47.6111	71.9757
2	Heavy	0.9247	1.9594	3.3382	5.0465	7.0734	10.6932	14.9883	25.5351	38.6025	54.1077	65.7660	99.4212
	SuperHeavy-40	1.1916	2.5248	4.3015	6.5028	9.1147	13.7790	19.3135	32.9040	49.7423	69.7220	84.7447	128.1120
	EcoMedium	0.1230	0.2606	0.4440	0.6713	0.9409	1.4224	1.9938	3.3967	5.1350	7.1975	8.7483	13.2252
	Medium	0.1439	0.3048	0.5193	0.7851	1.1004	1.6635	2.3317	3.9724	6.0053	8.4173	10.2310	15.4666
	Standard	0.1833	0.3884	0.6618	1.0005	1.4023	2.1199	2.9714	5.0623	7.6529	10.7268	13.0380	19.7101
2¼	Heavy	0.2415	0.5117	0.8717	1.3178	1.8472	2.7924	3.9140	6.6682	10.0807	14.1297	17.1742	25.9629
	SuperHeavy	0.3099	0.6566	1.1187	1.6912	2.3705	3.5836	5.0230	8.5575	12.9367	18.1329	22.0399	33.3186
	HeavyPlus	0.2142	0.4538	0.7731	1.1688	1.6382	2.4766	3.4714	5.9140	8.9405	12.5316	15.2317	23.0264
	Medium	0.0433	0.0917	0.1562	0.2361	0.3310	0.5004	0.7014	1.1949	1.8064	2.5320	3.0775	4.6524
	Standard	0.0530	0.1123	0.1913	0.2892	0.4054	0.6128	0.8590	1.4635	2.2124	3.1010	3.7691	5.6980
2½	StandardPlus	0.0640	0.1356	0.2310	0.3492	0.4894	0.7399	1.0371	1.7668	2.6710	3.7438	4.5505	6.8791
	Heavy	0.0760	0.1611	0.2744	0.4148	0.5814	0.8790	1.2320	2.0990	3.1731	4.4477	5.4060	8.1724
	SuperHeavy-35	0.1048	0.2221	0.3783	0.5719	0.8017	1.2119	1.6987	2.8940	4.3749	6.1322	7.4535	11.2677
	SuperHeavy-40	0.1345	0.2849	0.4854	0.7338	1.0285	1.5549	2.1794	3.7130	5.6130	7.8676	9.5628	14.4564
3	Medium	0.0200	0.0424	0.0722	0.1091	0.1530	0.2313	0.3242	0.5523	0.8349	1.1703	1.4224	2.1503
	Standard	0.0250	0.0529	0.0902	0.1364	0.1911	0.2890	0.4050	0.6900	1.0432	1.4622	1.7772	2.6867
	StandardPlus	0.0292	0.0618	0.1053	0.1591	0.2231	0.3372	0.4726	0.8052	1.2173	1.7062	2.0739	3.1351
	Heavy	0.0337	0.0715	0.1218	0.1841	0.2581	0.3902	0.5469	0.9318	1.4086	1.9743	2.3998	3.6278
	SuperHeavy	0.0475	0.1006	0.1714	0.2591	0.3632	0.5491	0.7696	1.3111	1.9821	2.7782	3.3768	5.1049
3½	HeavyPlus	0.0224	0.0474	0.0808	0.1221	0.1711	0.2587	0.3626	0.6178	0.9340	1.3091	1.5912	2.4054

Size Type (inch)		Discharge of pumpinlpm											
		40	60	80	100	120	150	180	240	300	360	400	500
4	Medium	0.0057	0.0120	0.0205	0.0310	0.0434	0.0656	0.0919	0.1567	0.2368	0.3319	0.4035	0.6099
	Standard	0.0068	0.0144	0.0245	0.0371	0.0520	0.0786	0.1101	0.1876	0.2837	0.3976	0.4833	0.7306
	StandardPlus	0.0082	0.0175	0.0298	0.0450	0.0631	0.0954	0.1337	0.2278	0.3444	0.4827	0.5867	0.8870
	Heavy	0.0099	0.0210	0.0358	0.0542	0.0759	0.1148	0.1609	0.2741	0.4143	0.5808	0.7059	1.0671
5	SuperHeavy	0.0139	0.0295	0.0503	0.0761	0.1066	0.1612	0.2259	0.3849	0.5819	0.8156	0.9913	1.4987
	Standard	0.0025	0.0053	0.0090	0.0135	0.0190	0.0287	0.0402	0.0686	0.1036	0.1453	0.1766	0.2669
	StandardPlus	0.0030	0.0064	0.0108	0.0164	0.0230	0.0347	0.0487	0.0829	0.1254	0.1757	0.2136	0.3229
	Heavy	0.0036	0.0076	0.0129	0.0195	0.0273	0.0413	0.0579	0.0986	0.1491	0.2090	0.2541	0.3841
6	SuperHeavy	0.0049	0.0105	0.0178	0.0270	0.0378	0.0571	0.0801	0.1364	0.2062	0.2891	0.3513	0.5311
	Heavy	0.0015	0.0033	0.0056	0.0085	0.0118	0.0179	0.0251	0.0428	0.0647	0.0906	0.1101	0.1665

Chart 1

Approximate frictional head loss in steel pipe head lost in metre per 100 metre discharge in lpm

Pipe Nominal Bore

Q Imp (nominal dia mm)	40	50	65	80	100
60	2.57	0.84	0.22	0.08	0.03
80	4.58	1.50	0.40	0.14	0.05
100	7.16	2.36	0.63	0.22	0.07
120	10.30	3.38	0.91	0.32	0.11
150	16.10	5.30	1.42	0.50	0.17
180	23.20	7.60	2.05	0.72	0.24
240	41.25	13.52	3.64	1.29	0.42
300	64.45	21.12	5.69	2.01	0.66
360		30.41	8.19	2.90	0.95
400		37.55	10.11	3.58	1.17
500			15.80	5.59	1.83

Chart 2

Calculation

1. Head Loss and discharge comparison for 2" (60 mm OD) Vinyl Standard column pipes and Gl pipe for installation at 450 ft (137 metres) depth.
- Considering that water will not be lifted higher than the ground level.
- (i) Head Loss due to depth of pump = 137 meters (450 ft) both in case of Vinyl column pipes and steel pipes.
- (ii) Head Loss due to friction in Vinyl column pipes as per Chart taking working range of discharge as 18 m3/hr = 300 lpm.
- As per Chart : 1 frictional head loss is 7.71 meters /100 meters of depth for 2" (60 mm Vinyl Standard Pipes)
- For 137 meters frictional Head loss $137/100 \times 7.71 = 10.56$ meters
- Total head load on pump with Vinyl column pipe = $137 + 10.56 = 147.56$ meters

Accessories



1. Top Adaptors or Connectors - The Top Adaptors are available in MS Seamless, Cast iron, Stainless Steel, and are used to connect the Riser or Drop top pipe with bend fitting.



2. Bottom Adaptors or Connectors - The Bottom Adaptors are available in Cast iron or Stainless Steel and are used in joining the bottom pipe with the pump.

Note: During the removal of pumps for maintenance purposes, both the top and bottom adaptors should be thoroughly analysed for any kind of rust, corrosion, etc. If any such problem is found, the adaptors should be changed instantly.



3. Jigs - Both Inner and Outer Jigs are used for attaining pump from bore well during any borewell collapse, jamming of the pump due to gravel, etc. These jigs have been efficiently designed by Vinyl to help recover the pump out of the borewell under any such challenging conditions.



4. Fixtures - A lowering fixture has been made by Vinyl for lowering or extracting the Riser or Drop pipes from the borewell.



5. Pump Guard - A pump guard is installed between the bottom pipe and bottom adaptors. This pump guard is suggested for places with extreme pump vibration due to substandard pumps, sand pumping, and other local conditions.

Best Practices

1. Pipe and Pump Safeguard Against Dry Running dry runner protector always use

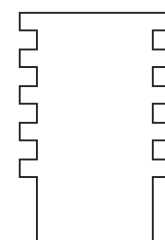
- The dry running condition of pumps may also be dealt by installing a hand operated valve at the top of the borewell and keeping it partly open so as to reduce the water flow. This prevents the pump from getting dry.

2. Prevention of Water Hammer

- It is often suggested to make a 3 mm hole in the pump for deep borewells of about 500 feet and above. Doing this removes water hammering in the bottom pipe at the time of pump stoppage and thus all the pipes will remain safe.
- Water hammering can also be prevented by installing a non-return valve at the Top pipe.

3. In-well Borewells - A few times, in-well borewells may be required. In such cases, care is to be taken to minimise vibrations. It is recommended to use flexible pipes from the bottom of the open well.

4. It is also advised that grease should not be applied to these column pipes by Vinyl.



Handling and Storage Guidelines

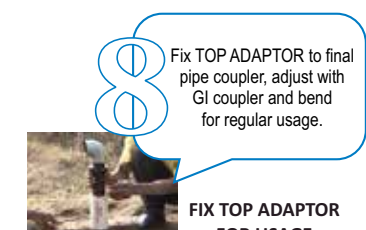
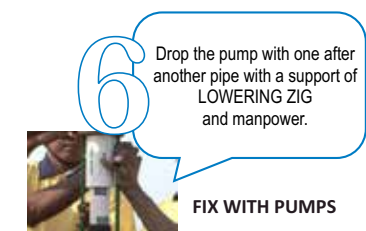
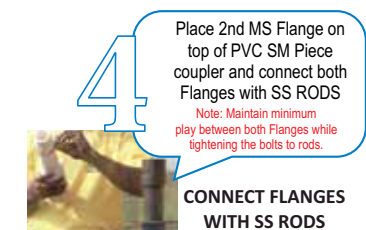
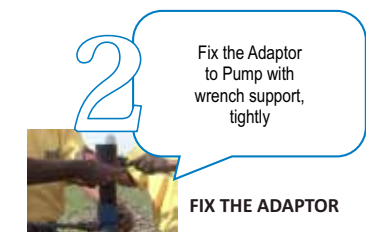
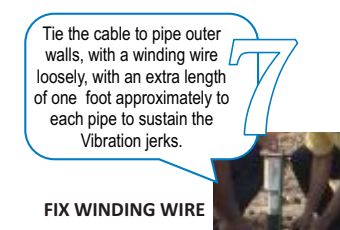
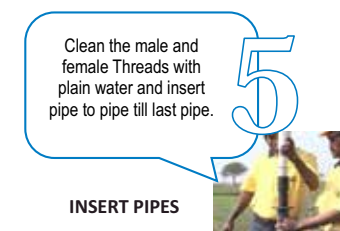
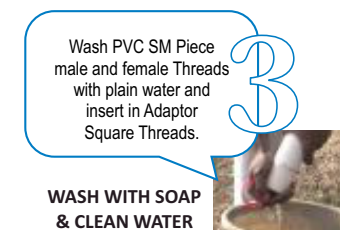
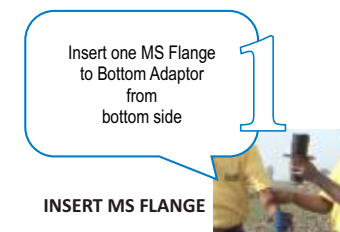
Handling

- The pipes must be handled with reasonable care too avoid damage to the threads at the end of the pipe.
- Any kind of plunking should be avoided. The pipes should not be pulled or pushed.
- The contact of these pipes from any sharp object should be completely avoided.
- The loose pipes can be rolled down on timbers board and ply board, as long as the pieces do not fall on each other or any hard or uneven surface.

Storage

- The pipes should preferably be stored indoors. If not possible to do so, please ensure that the bundles are covered to prevent exposure to sunlight, and to reduce the effect of UV rays.
- The maximum stacking height of these pipes should be up to 7 feet.
- The alternate layers of the pipes should be placed at an angle of 90 degrees, perpendicular to each other, with the first layer in a square shape.
- The surface where the pipes are to be kept should be dry.

Installation Guide



FAQS

1. Why Vinyl uPVC Column Pipes?

Vinyl Pipes is an ISO 9001:2015 certified company. Vinyl manufacturers various new products to meet the customer's needs and these products are highly accepted across the globe. It has a well developed network of distributors, dealers, and services in India and in several countries worldwide.

2. What are the advantages of uPVC Column Pipes over steel Column Pipes?

The uPVC pipes have several benefits over Steel Pipes.

- (a) Low cost, less handling time, low power consumption as compared to steel pipes
- (b) Water discharge upto 30% higher than steel pipes
- (c) The working life of pipes is very long compared to steel pipes
- (d) Zero maintenance cost, while maintenance cost is much higher in steel pipes

3. Can the strength of uPVC Column Pipes be compared with a Steel Column Pipe?

The specific gravity of uPVC pipes is in the range of 1.4-1.45, whereas that of steel pipes is 8. On analysing the strength of the material, we can find that the uPVC pipes are efficiently manufactured to make them light in weight without any compromise in their strength essentials. Infact they are dull to the strength of iron pipe.

4. How is the quality and quantity of water affected?

These Column Pipes from Vinyl have low friction which leads to low friction. This low friction enables us to get more water. After a specific period of usage, the steel pipes tend to get corroded and eventually the quality of water degrades. Since there is no issue of corrosion or rust in Vinyl Column Pipes, the quality remains good.

5. Up to how much depth can the pipes be lowered?

The Vinyl Column Pipes can be used after an

accurate selection on the basis of pump delivery head and the maximum pressure which the pipes can withstand. Depending upon the water level in the borewell, the depth of the borewell varies from place to place. Vinyl offers a broad range of pipes to meet the customer's need of different depths and have been used successfully for upto 1400 feet. After a careful study of the pump pressure, the proper selection of Vinyl Pipes can be made for various depth applications.

6. Can uPVC pipes withstand the load of the pump?

To hold the weight of the complete column filled with water and pump assembly, the uPVC Vinyl column pipes are efficiently constructed. All types of pumps of different sizes have been examined and Vinyl Column Pipes are made accordingly in different classes.

7. Do Vinyl Pipes need full casing in the bore?

These pipes deliver the work more efficiently in borewells which have full casing or borewells which are free from loose gravel and stones. In areas where loose gravel and stones are common, full casing or slightly larger bore should be made so that the pump does not get stuck. Bore collapse problem occurs in some areas and it can be tackled by giving full casing pipes. This mostly happens in areas with loose soil and silt. Proper care should be taken during the drilling of the borewell so that it is perfectly down without any stress.

8. How to select from a broad range of pipes offered?

The right selection of pipes can be made after taking advice from our technical charts on the basis of pump and pipe discharge pressure.

9. What should be the bore size with respect to the outside diameter of the pump?

For borewells with casing, a minimum gap of 1 1/2" between the casing's internal diameter and the pump's outer diameter is necessary.

10. Why is there a divergence in thickness of the pipes?

The ends of the pipes are made thicker so that even after the removal of material, the end thickness remains the same. This is done so that the strength of the pipe can be maintained equal in the end and barrel. The pipe thickness of the

barrel has been designed by taking the pump weight, pump delivery pressure, and water column weight into consideration.

11. Can the pipes be broken?

No, the pipes do not break under normal recommended handling conditions.

12. How to tighten the pipes?

The pipe is tightened by using the principle of screw system. Tighten the pipe with hand and rope so that the rubber seal fully enters into the coupling pipe.

13. Are adhesives needed during the joining of the pipes?

No adhesive or solvent is required.

14. Can the pipes be rethreaded?

Under normal use, rethreading of pipe cannot be done. This is because special threads cannot be made at the site.

15. What is the need for a Pump Guard?

Areas Prone to extreme sand pumping or defective pump result in inessential vibrations in the bottom which may lead to breakage of pipe near the adaptor. Pump guard are used in these types of areas and issues so that even after breakage of Riser/Drop pipes, the pumps can be easily derivable.

16. What happens when a bore collapses?

The pump and the pipes can be pulled out only in cases where a force can be applied within the eventual breaking strength of the pipe. Normally the strength is sufficient. In case of a severe collapse of bore and gravel problems, even the steel pipes cannot be brought back from the bore. It would be difficult to even recover steel pipes.

17. What makes Vinyl Column pipes the prime choice?

Vinyl has a legacy of 8 decades and more than 35 years of competence in the field of PVC pipe processing. It has a fully devoted team consisting of engineering department to indulge to the technical needs of the product. It has a global reach in 44 countries with 10 million successful installations. And above all, Vinyl realises its customer's needs and delivers them quality products. They have a proven track record and

high acceptance rate all over the country.

- Cubing Sheet
- Pipe Selection
- Calculation
- Color Coding of Pipes

What makes Vinyl Pipes Your Best Bet?

Our dedication to being the one-stop-shop for all your piping needs gives us an edge over others and makes us the most preferred choice in the market. Whatever be the needs, troubles or preferences of our clients, Vinyl Pipes promises to take care of it all.

From an extensive range of pipes to the availability of specific customizations, the following checklist sheds light on our commitment to being the solution to every piping problem in the industry.

- Availability of Pipes of All Dimensions - From 1 inch to 20 inches pipes
- Varied Applications - Suitable for Agricultural, Industrial and Domestic Uses
- Specific Customizations Available - The Pipes can be tailor-made as per the preferences and needs of the client.
- Successful History: We have an impressive track record of 10 million successful installations.
- Suitable for Trusted Pump Brands: Our pipes are suitable for most of the leading pump manufacturers including Grundfos, FE, GWS, Wilo, Leo etc.
- International Adherence to all Major Standards - DIN, ISO, NSF APPLIED, WRAS, CIPET
- Screening by Third-party Testing Agencies - A robust screening process includes inspection and verification by Crown agents and SGS. The third party testing is carried out to ensure the utmost transparency and credibility in our operations.
- Complete Product Range SKUs- Ready and Available stock for most of the Products.
- Shorter Delivery Period - The Facility of a shorter delivery period is available for large quantity supplies. Our stock can be delivered

ered to most global seaports within three weeks from our factory.

- Facility of Client-oriented Deadlines - The product delivery deadline can be matched with the dates preferred by the client.
- Global Shipments - The company offers the provision of handling shipments on a global scale.
- Global Reach: We have a global reach of 44 countries including Japan, Italy, US, France, and Russia.
- Favourable Locations - Factories established near seaport for easy delivery. Vinyl new manufacturing facility is only 10 km from the most connected seaport in India.
- Highly Competitive Pricing: Vinyl products are offered at competitive prices owing to the direct bulk supply of raw materials and our high production volumes.
- A Global OEMS Solution - A bulk producer and the preferred choice of the client as a global OEMS company
- Extensive network of Raw material Suppliers - The company receives a supply of a vast range of raw materials, spanning from Formosa, Reliance to OXY vinyl.
- Extensive network of Chemical and Additive Suppliers - Names of brands
- A State-of-the-art Manufacturing Facility - The manufacturing facilities contain an in-house engineering department that develops and employs the most sophisticated tools and machines matching the widely-accepted International standards.
- Complete Automation and CNC operation - The advanced machines running in our facilities are fully automated, ensuring maximum efficiency and productivity.
- With an unwavering dedication to our vision and a promise to deliver nothing but the best, Vinyl Pipes is poised to become the largest and most advance Casing Pipes Manufacturer & Supplier in the world.





VINYL TUBES PRIVATE LIMITED

B-13B, Ground Floor, Kalkaji, New Delhi -110019 (INDIA)

Ph. +91-11-41406883, Email : sales@vinylpipes.com

Regd. Off : 8/33, Ind. Area., Kirti Nagar, New Delhi-110015

Factory 1: C-19, UPSIDC Ind. Area, Nandgaon Road, Kosi Kalan, Distt. Mathura (U.P.)-281403

Factory 2 : 358, GIDC, Mithi Rohar, Gujarat – 370201

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 / [channel/UC4jQXUlbc50ZwpmgbrC7DNw](https://www.youtube.com/channel/UC4jQXUlbc50ZwpmgbrC7DNw)

