



**40** YEARS OF  
**FinOlex**  
PIPES



# COLUMN PIPES

PRODUCT CATALOGUE



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## PVC - U COLUMN PIPES

Finolex PVC-U column pipes are uniquely designed for water extraction from bore wells and are manufactured using lead-free compounds, and on advanced state-of-the-art CNC machines. Our column pipes can withstand system loads including the weight of the pump, water, and pipes with an adequate factor of safety.

Finolex column pipes offer several advantages, making them the best alternative to conventional metal pipes.

Column pipes are light weight, have a high tensile load capacity, leak proof joints, long product life, and are extremely economical. The square threaded coupling joint ensures ease of joining as well as an optimum load holding capacity. A high torque resistant locking system and specially designed rubber "O" ring ensure trouble-free operations.

Our stringent quality assurance approach across all stages of manufacturing gives the product a high degree of reliability, making Finolex column pipes a preferred choice for farmers, users in domestic and commercial establishments, and quality-conscious people across the country.

Finolex offers column pipes in Coupler End and Bell End variants in standard lengths of 1.5 and 3 meters. These pipes are available in sizes between 25 and 100 mm (1" to 4") diameter with a full range of pressure ratings in V4, Crystal, Medium, Standard, Heavy, and Super Heavy type as per requirements based on installation depth from 100 to 400 meters.





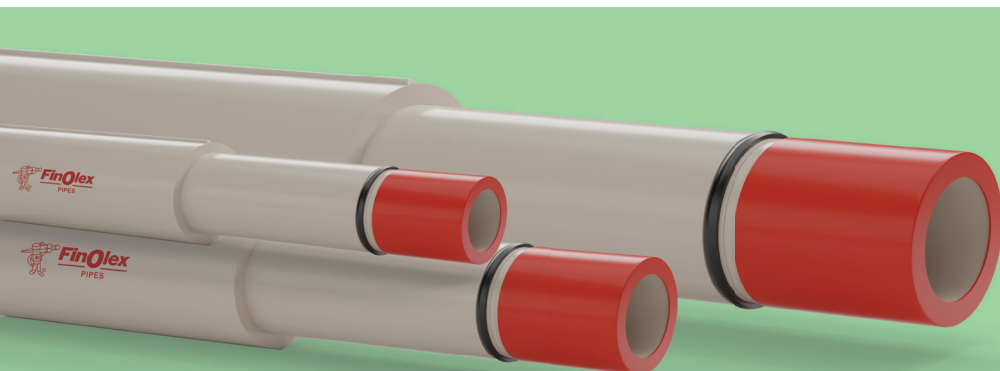
## TECHNICAL SPECIFICATION OF PVC - U COLUMN PIPES - COUPLER TYPE

Nominal Bore Size in mm	Nominal Bore Size in inch	Type	Wall Thickness in mm (t)				Safe Allowable Hydrostatic Pressure kg/cm <sup>2</sup>	Safe Delivery Head in Meter	Standard Pipe Length in Meter
			END		BARREL				
			Min	Max	Min	Max			
25	1"	V4 (COUPLER) - 12.5KG	4.1	4.5	1.7	2.0	12.5	125	3
25	1"	V4 (COUPLER) - 15KG	4.7	4.9	2.0	2.3	15.0	150	3
25	1"	CRYSTAL (COUPLER)	5.0	5.3	2.5	2.8	21.0	210	3
25	1"	STANDARD (COUPLER)	5.7	6.3	4.0	4.4	30.0	300	3
32	1¼"	V4 (COUPLER) - 12.5KG	4.4	4.8	2.4	2.7	12.5	125	3
32	1¼"	V4 (COUPLER) - 15KG	4.6	4.9	2.4	2.7	15.0	150	3
32	1¼"	CRYSTAL (COUPLER)	4.8	5.1	2.8	3.1	21.0	210	3
32	1¼"	STANDARD (COUPLER)	6.3	6.5	4.1	4.4	25.0	250	3
32	1¼"	HEAVY (COUPLER)	6.8	7.2	5.2	5.8	35.0	350	3
32	1¼"	SUPER HEAVY (COUPLER)	7.8	8.3	5.3	5.7	40.0	400	3
40	1½"	V4 (COUPLER) - 15KG	4.5	4.8	2.7	3.0	15.0	150	1.5,3
40	1½"	CRYSTAL (COUPLER)	5.3	5.6	3.5	3.8	21.0	210	1.5,3
40	1½"	STANDARD (COUPLER)	6.6	6.9	4.1	4.4	26.0	260	1.5,3
40	1½"	HEAVY (COUPLER)	8.4	8.8	5.9	6.2	35.0	350	1.5,3
40	1½"	SUPER HEAVY (COUPLER)	8.5	9.0	6.0	6.5	40.0	400	3
50	2"	CRYSTAL (COUPLER)	5.6	6.1	3.4	3.9	17.0	170	1.5,3
50	2"	MEDIUM (COUPLER)	5.1	5.4	2.6	2.9	13.0	130	1.5,3
50	2"	STANDARD (COUPLER)	6.4	6.8	3.9	4.3	20.0	200	1.5,3
50	2"	HEAVY (COUPLER)	7.9	8.4	5.3	5.7	27.0	270	1.5,3
50	2"	SUPER HEAVY (COUPLER)	9.0	9.5	6.5	7.0	35.0	350	3
65	2½"	MEDIUM (COUPLER)	5.1	5.4	2.6	2.9	10.0	100	1.5,3
65	2½"	STANDARD (COUPLER)	6.5	6.9	4.0	4.4	16.0	160	1.5,3
65	2½"	HEAVY (COUPLER)	9.1	9.6	6.3	6.8	26.0	260	1.5,3
65	2½"	SUPER HEAVY (COUPLER)	10.8	11.4	8.3	8.8	35.0	350	3
80	3"	MEDIUM (COUPLER)	5.7	6.1	3.2	3.5	11.0	110	1.5,3
80	3"	STANDARD (COUPLER)	7.5	7.9	5.0	5.5	17.0	170	1.5,3
80	3"	HEAVY (COUPLER)	9.8	10.3	7.3	7.8	26.0	260	1.5,3
100	4"	MEDIUM (COUPLER)	6.3	6.8	3.8	4.3	10.0	100	3
100	4"	STANDARD (COUPLER)	8.2	8.5	5.7	6.2	15.0	150	3
100	4"	HEAVY (COUPLER)	11.9	12.3	9.4	10.0	26.0	260	3

### Batch number logic:

Year	Month	Day	Mc.No.	Shift
xxxx	xx	xx	xxx	x

For example, the batch number of pipes produced on Mc. no. 20 on 1st June 2021 in the 1st shift will be 202106010201



**COUPLER  
TYPE**

## TECHNICAL SPECIFICATION OF PVC - U COLUMN PIPES - BELL END TYPE

Nominal Bore Size in mm	Nominal Bore Size in inch	Type	Wall Thickness in mm (t)				Safe Allowable Hydrostatic Pressure kg/cm <sup>2</sup>	Safe Delivery Head in Meter	Standard Pipe Length in Meter
			END		BARREL				
			Min	Max	Min	Max			
25	1"	V4 (BELL) - 12.5KG	3.7	4.0	1.7	2.0	12.5	125	3
25	1"	V4 (BELL) - 15KG	3.7	4.0	2.0	2.3	15.0	150	3
25	1"	CRYSTAL (BELL)	4.0	4.4	2.5	2.8	21.0	210	3
25	1"	STANDARD (BELL)	5.1	5.5	4.0	4.4	30.0	300	3
32	1¼"	V4 (BELL) - 12.5KG	4.1	4.5	2.3	2.6	12.5	125	3
32	1¼"	V4 (BELL) - 15KG	4.1	4.5	2.5	2.8	15.0	150	3
32	1¼"	CRYSTAL (BELL)	4.7	5.1	3.0	3.3	21.0	210	3
32	1¼"	STANDARD (BELL)	5.3	5.7	4.2	4.6	25.0	250	3
40	1½"	V4 (BELL) - 15KG	4.5	4.8	2.8	3.1	15.0	150	3
40	1½"	CRYSTAL (BELL)	5.0	5.4	3.5	3.8	21.0	210	3
40	1½"	STANDARD (BELL)	5.5	5.9	4.3	4.6	26.0	260	3

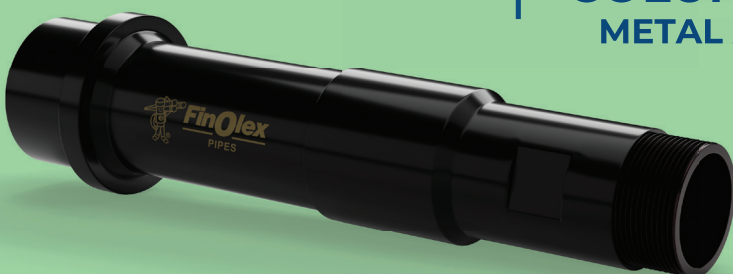
**BELL END TYPE**



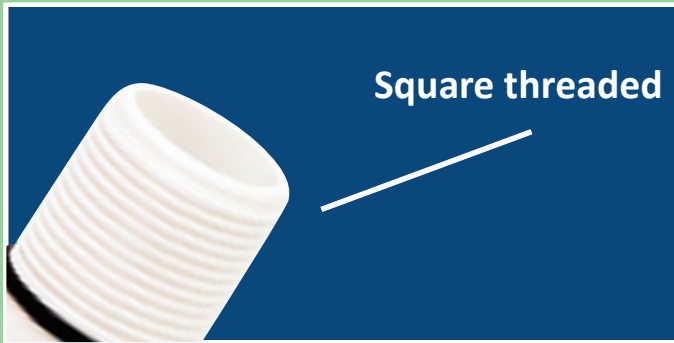
## COLUMN PIPES - ACCESSORIES METAL ADAPTOR SET (LONG)

Size in mm	Size in inch
25	1"
32	1¼"
40	1½"
50	2"
65	2½"

**COLUMN PIPES METAL ADAPTORS**



# CHARACTERISTICS OF COLUMN PIPES



## Square threaded:

Column pipes have square threads for coupling joints. Due to their unique design, these pipes can withstand considerable shocks, jerks, load, and pressure at full capacity when operational. Square threads ensure ease in jointing with a high load holding capacity.



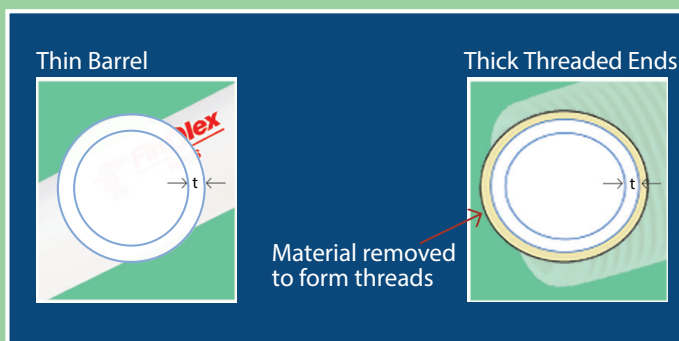
## Specially designed "O" rubber ring:

Made from EPDM rubber, this ring makes joints watertight and absorbs pump vibrations, ensuring trouble free operations.



## Unique locking system:

A high torque resistance and double locking system is provided by using brass riveting, which promises extra safety in the long run.



## Thick and thin construction:

Finolex column pipes are specially designed and manufactured to compensate for material removal during the threading operation by maintaining a thick section at the threaded end of the pipe. For the rest of the length, a thin size is maintained. This manufacturing process promises additional strength at the threaded end.





## IMPORTANT TIPS FOR INSTALLATION

- Pump delivery pressure should be less than the selected hydrostatic allowable pressure of column pipes.
- Bore well drilling should be straight down without bends.
- During the dry run of the pump, the heat generated may damage the column pipe. In such a case, the initial 3-meter steel pipe must be connected directly to the pump for proper heat dissipation before it reaches the column pipe.
- The diameter of the borewell should be at least 2" to 2.5" more than the diameter of the pump.
- Always mount the split clamp on the pipe below the coupler at the top.
- If the pump does not have open discharge at the well head, then a non return valve should be installed at the well head between the top connector and the system to be connected.
- Do not use pipes with damaged/scratched ends as such joints may leak or fail.
- Check that pipe threads are undamaged. Clean it with normal water to avoid forceful jointing.
- Don't use any chemicals for cleaning the pipe thread.
- Ensure that rubber gaskets supplied with the pipe are properly placed in the groove on the male threads of pipe.
- Use plain water or soapy water for cleaning the threads.
- Do not apply grease, oil, or any other lubricants on the threads.
- Join one pipe after the other. Tighten pipes by strap wrench so that 50% of the rubber-sealing ring on the male thread end slots into the seat of the coupler female threads.
- Do not over tighten pipes as it may crush the rubber seals leading to leakage or cracking.
- Do not use a pipe/chain wrench to tighten the joints.
- Do not hammer pipes during assembly.



## FEATURES & BENEFITS



Lead-free



Anti-abrasion and anti-corrosion properties ensure a long life



High tensile strength



Lightweight, easy to handle and transport



High torque resistance locking system ensures stable joint



Easy to install



Specially designed square threaded profile results in optimum load holding capacity



The bell end variant of the column pipe is lightweight and economical



The EPDM "O" rings provide trouble-free operations and water-tight joints



Stringent quality control



High impact strength



Manufactured using a special PVC-U compound which ensures excellent mechanical properties



Increased product life due to the smooth internal surface of the pipe which reduces energy consumption



Manufactured with a bi-axially oriented production technique



Non-toxic, rust and deposit free



More economical compared to mild steel (MS) pipes



Immune to galvanic and electrolytic erosion and hence keeps pipes and water unaffected



Obtains higher well yields as compared to conventional metallic pipes

## APPLICATION

Column pipes are ideal for both urban and rural applications as they are used for efficient water extraction from borewells.

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