

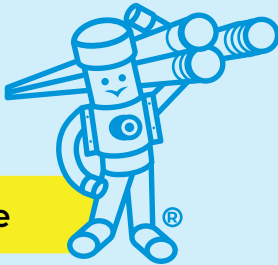
COLUMN PIPES

LEAD-FREE, STRONG & DURABLE PIPES FOR
EXTRACTING WATER FROM BOREWELLS

PRODUCT CATALOGUE



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Our Entire Product Range of Pipes & Fittings is now 100% Lead Free



COLUMN PIPES

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A PREMIUM SOLUTION

Finolex PVC-U column pipes are uniquely designed for water extraction from borewells and are manufactured using lead-free compounds 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 lightweight and have a high tensile strength, leak-proof joints, long lasting 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.

QUALITY ASSURANCE AND RELIABILITY

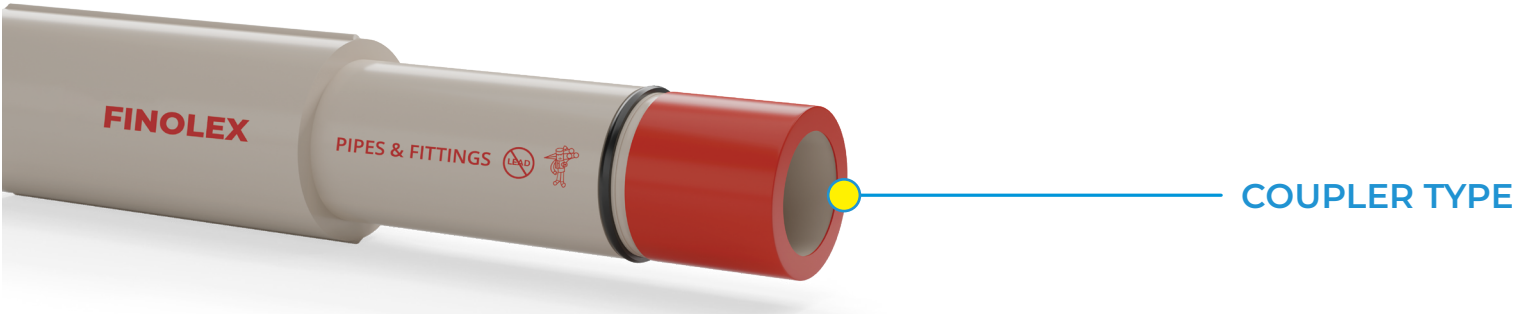
Our stringent quality assurance approach across all stages of manufacturing gives the product a high degree of reliability, making Finolex column pipes one of the preferred choices for farmers, for domestic and commercial establishments and quality-conscious people across the country.

PIPE SPECIFICATIONS AND AVAILABILITY

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

TECHNICAL SPECIFICATION OF COLUMN PIPES-COUPLER TYPE

Nominal Size		Type	Wall Thickness in mm				Safe Allowable Pressure	Safe Delivery Head	Standard Pipe Length
			End		Barrel				
in inch	in mm		Min	Max	Min	Max	kg/cm²	in Meter	in Meter
1"	25	V4 (COUPLER) - 12.5KG	4.1	4.5	1.7	2.0	12.5	125	3
1"	25	V4 (COUPLER) - 15KG	4.7	5.0	2.0	2.3	15.0	150	3
1"	25	CRYSTAL (COUPLER)	5.0	5.3	2.5	2.8	21.0	210	3
1"	25	STANDARD (COUPLER)	5.7	6.3	4.0	4.4	30.0	300	3
1¼"	32	V4 (COUPLER) - 10KG	3.6	3.8	1.5	1.75	10.0	100	3
1¼"	32	V4 (COUPLER) - 12.5KG	4.4	4.8	2.3	2.6	12.5	125	3
1¼"	32	V4 (COUPLER) - 15KG	4.6	4.9	2.4	2.7	15.0	150	3
1¼"	32	CRYSTAL (COUPLER)	4.8	5.1	2.8	3.1	21.0	210	3
1¼"	32	STANDARD (COUPLER)	6.3	6.5	4.1	4.4	25.0	250	3
1¼"	32	HEAVY (COUPLER)	6.8	7.2	5.2	5.8	35.0	350	3
1¼"	32	SUPER HEAVY (COUPLER)	7.8	8.3	5.3	5.8	40.0	400	3
1½"	40	V4 (COUPLER) - 15KG	4.5	4.8	2.7	3.0	15.0	150	1.5,3
1½"	40	CRYSTAL (COUPLER)	5.3	5.6	3.5	3.8	21.0	210	1.5,3
1½"	40	STANDARD (COUPLER)	6.6	6.9	4.1	4.4	26.0	260	1.5,3
1½"	40	HEAVY (COUPLER)	8.4	8.8	5.9	6.2	35.0	350	1.5,3
1½"	40	SUPER HEAVY (COUPLER)	8.5	9.0	6.0	6.5	40.0	400	3
2"	50	CRYSTAL (COUPLER)	5.6	6.1	3.4	3.9	17.0	170	1.5,3
2"	50	MEDIUM (COUPLER) - 10 KG	4.3	4.5	2.0	2.2	10.0	100	3
2"	50	MEDIUM (COUPLER)	5.1	5.4	2.6	2.9	13.0	130	1.5,3.
2"	50	STANDARD (COUPLER) – 19KG	5.7	6.0	3.55	3.9	19.0	190	3
2"	50	STANDARD (COUPLER)	6.4	6.8	3.9	4.3	20.0	200	1.5,3
2"	50	HEAVY (COUPLER)	7.9	8.4	5.3	5.7	27.0	270	1.5,3
2"	50	SUPER HEAVY (COUPLER)	9.0	9.5	6.5	7.0	35.0	350	3
2½"	65	MEDIUM (COUPLER)	5.1	5.4	2.6	2.9	10.0	100	1.5,3
2½"	65	STANDARD (COUPLER)	6.5	6.9	4.0	4.4	16.0	160	1.5,3
2½"	65	HEAVY (COUPLER)	9.1	9.6	6.3	6.8	26.0	260	1.5,3
3"	80	MEDIUM (COUPLER)	5.7	6.1	3.2	3.5	11.0	110	1.5,3
3"	80	STANDARD (COUPLER)	7.5	7.9	5.0	5.5	17.0	170	1.5,3
3"	80	HEAVY (COUPLER)	9.8	10.3	7.3	7.8	26.0	260	1.5,3
4"	100	MEDIUM (COUPLER)	6.3	6.8	3.8	4.3	10.0	100	3
4"	100	STANDARD (COUPLER)	8.2	8.5	5.7	6.2	15.0	150	3
4"	100	HEAVY (COUPLER)	12	14	9.4	12	26	260	3



TECHNICAL SPECIFICATION OF COLUMN PIPES - BELL END TYPE

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



BATCH NUMBER LOGIC:

Year	Month	Day	Mc.No.	Shift	Location
XXXX	XX	XX	XXX	X	X

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

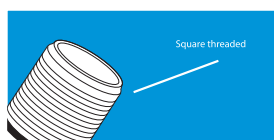
COLUMN PIPES - ACCESSORIES METAL ADAPTER SET (LONG)

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

METAL ADAPTER

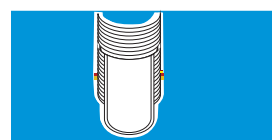


CHARACTERISTICS OF COLUMN PIPES



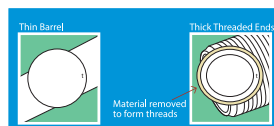
Square threaded:

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.



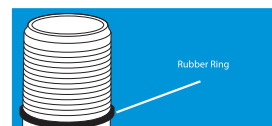
Unique locking system:

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



Thick & 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 ensures additional strength at the threaded end.





















Specially designed "O" rubber ring:

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



IMPORTANT TIPS FOR INSTALLATION

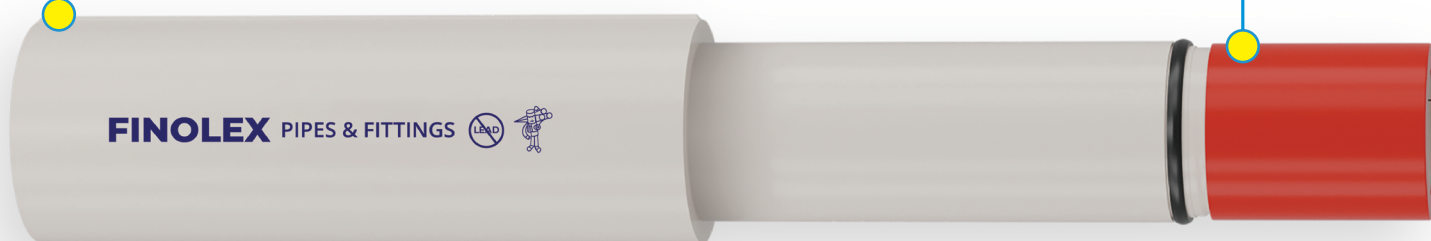
- Pump delivery pressure should be less than the selected hydrostatic allowable pressure of column pipes
- Borewell drilling should be straight down without bends
- During the dry run of the pump, the heat generated may damage the column pipe. In such a case, the initial 3-meter steel pipe must be connected 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
- Check that pipe threads are undamaged. Clean it with normal water to avoid forceful jointing
- Don't use pipes with damaged/scratched ends as such joints may leak or fail
- 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
- Don't 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
- Don't over tighten pipes as it may crush the rubber seals leading to leakage or cracking
- Don't use a pipe/chain wrench to tighten the joints
- Don't hammer pipes during assembly

FEATURES AND BENEFITS

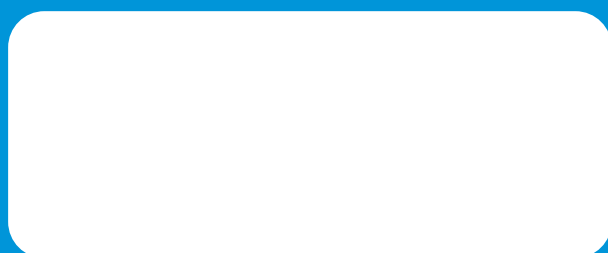
-  Lead-free
-  High tensile strength
-  High torque resistance locking system ensures stable joint
-  Specially designed square threaded profile results in optimum load holding capacity
-  The EPDM "O" rings provide trouble-free operations and water-tight joints
-  High impact strength
-  Obtains higher well yields as compared to conventional metallic pipes
-  Immune to galvanic and electrolytic erosion and hence keeps pipes and water unaffected
-  The bell end variant of the column pipe is lightweight & economical
-  Manufactured using a special PVC-U compound which ensures excellent mechanical properties
-  Manufactured with a biaxially oriented production technique
-  Anti-abrasion and anti-corrosion properties ensure a long life
-  Lightweight, easy to handle and transport
-  Easy to install
-  Non-toxic, rust and deposit free
-  Increased product life due to the smooth internal surface of the pipe which reduces energy consumption
-  More economical compared to metal pipes
-  Excellent flow characteristics

APPLICATIONS

-  Column pipes are ideal for both urban and rural areas
-  They are used for efficient water extraction from borewells



DISTRIBUTOR / DEALER STAMP



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