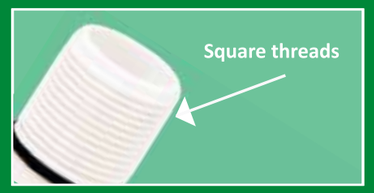
CHARACTERISTICS OF COLUMN PIPES

Square threads:



Column pipes are provided with square threads for coupling joints. Due to their unique design, these pipes can withstand considerable shock, jerk load and pressure at full capacity when operational. Square threads ensure ease in joining with a high load holding capacity.

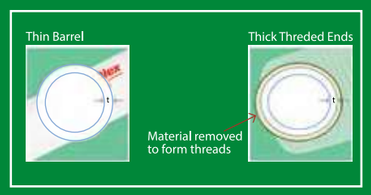
Specially designed “O" rubber ring:

This ring is made from EPDM rubber. It makes joints watertight and absorbs pump vibrations to ensure trouble free operation, which extends the life of motor and pump bearings.

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 material removal during the threading operation by maintaining a thick section at the threaded end of the pipe. For the remaining pipe, 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.
- During column pipe installation, maximum hydrostatic delivery pressure is generated near the pump. The top most pipe holds the entire load of the assembled pipes, the pump and the extracted water.
- In deep bore-wells with high pressure pumps, two classes of column pipes of the same size may be used to save on costs. Heavy pipes may directly be connected to the pump. After some height and loss of delivery pressure, standard pipes can be used at the top. When using this combination do not use V4, medium or crystal range pipes.
- Column pipes are more effective in bore-wells with full casing. Bore-wells which are free from loose stones, soil or silt also give better performance.
- Wherever loose stones, soil or silt are present, a slightly larger bore or full casing is suggested to prevent the pump from getting clogged or stuck when operational.
- Bore-well drilling should be straight down without bending.
- 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 with the pump for proper heat dispersion before it reaches the column pipe.
- The dry run condition may be tackled by installing a hand-operated valve, at the top of the bore-well, keeping it partially open. This limits the water flow, ensuring that the pump does not get dry.

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FinOlex PIPES

COLUMN PIPES

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COLUMN PIPES

Finolex PVC-U column pipes are uniquely designed and manufactured using highly advanced state-of-the-art CNC machines. Known for its proprietary lead-free compound, Finolex PVC-U column pipes offer exceptional performance. Finolex offers column pipes in coupler end and bell end in a standard length of 3 meters. These pipes are available in a full range of pressure ratings in V4, Crystal, Medium, Standard and Heavy types. The square threaded coupling joint ensures ease of joining as well as an optimum load holding capacity. A high torque resistance locking system and a specially designed rubber “O” ring results in a trouble-free operation.

TECHNICAL SPECIFICATIONS OF COLUMN PIPES

Nominal Bore/Size mm	Type	Wall Thickness (mm)				Safe Allowable Hydrostatic Pressure (Kgf/cm2)	Safe Delivery Head Mtr
		END		BARREL			
		Min	Max	Min	Max		
25 (1")	V4 (BELL)	3.7	4.0	1.7	2.0	12.5	125
25 (1")	V4 (BELL)	3.7	4.0	2.0	2.3	15.0	150
25 (1")	V4 (COUPLER)	4.7	4.9	2.0	2.3	15.0	150
25 (1")	CRYSTAL (BELL)	4.0	4.4	2.5	2.8	21.0	210
25 (1")	CRYSTAL (COUPLER)	5.0	5.3	2.5	2.8	21.0	210
25 (1")	STANDARD (BELL)	5.1	5.5	4.0	4.4	30.0	300
25 (1")	STANDARD (COUPLER)	5.7	6.3	4.0	4.4	30.0	300
32 (1 1/4")	V4 (BELL)	4.1	4.5	2.3	2.6	12.5	125
32 (1 1/4")	V4 (BELL)	4.1	4.5	2.5	2.8	15.0	150
32 (1 1/4")	V4 (COUPLER)	4.2	4.5	2.4	2.7	15.0	150
32 (1 1/4")	CRYSTAL (BELL)	4.7	5.1	3.0	3.3	21.0	210
32 (1 1/4")	CRYSTAL (COUPLER)	4.8	5.1	2.8	3.1	21.0	210
32 (1 1/4")	STANDARD (BELL)	5.3	5.7	4.2	4.6	25.0	250
32 (1 1/4")	STANDARD (COUPLER)	6.3	6.5	4.1	4.4	25.0	250
32 (1 1/4")	HEAVY (COUPLER)	6.8	7.2	5.2	5.8	35.0	350
40 (1 1/2")	V4 (BELL)	4.5	4.8	2.8	3.1	15.0	150
40 (1 1/2")	V4 (COUPLER)	4.5	4.8	2.7	3.0	15.0	150
40 (1 1/2")	CRYSTAL (BELL)	5.0	5.4	3.5	3.8	21.0	210
40 (1 1/2")	CRYSTAL (COUPLER)	5.3	5.6	3.5	3.8	21.0	210
40 (1 1/2")	STANDARD (BELL)	5.5	5.9	4.3	4.6	26.0	260
40 (1 1/2")	STANDARD (COUPLER)	6.6	6.9	4.1	4.4	26.0	260
40 (1 1/2")	HEAVY (COUPLER)	8.4	8.8	5.9	6.2	35.0	350
50 (2")	MEDIUM (COUPLER)	5.1	5.4	2.6	2.9	13.0	130
50 (2")	STANDARD (COUPLER)	6.4	6.8	3.9	4.3	20.0	200
50 (2")	HEAVY (COUPLER)	7.9	8.4	5.3	5.7	27.0	270
65 (2 1/2")	MEDIUM (COUPLER)	5.1	5.4	2.6	2.9	10.0	100
65 (2 1/2")	STANDARD (COUPLER)	6.5	6.9	4.0	4.4	16.0	160
65 (2 1/2")	HEAVY (COUPLER)	8.5	9.3	6.3	6.8	26.0	260
80 (3")	MEDIUM (COUPLER)	5.7	6.1	3.2	3.5	11.0	110
80 (3")	STANDARD (COUPLER)	7.5	7.9	5.0	5.5	17.0	170
80 (3")	HEAVY (COUPLER)	9.8	10.3	7.3	7.8	26.0	260
100 (4")	MEDIUM (COUPLER)	6.3	6.8	3.8	4.3	10.0	100
100 (4")	STANDARD (COUPLER)	8.2	8.5	5.7	6.2	15.0	150
100 (4")	HEAVY (COUPLER)	11.9	12.3	9.4	10.0	26.0	260

FEATURES & BENEFITS

- A specially designed square threaded profile gives the pipes optimum load holding capacity.
- Anti-abrasion and anti-corrosion properties which ensure a long life.
- The smooth internal surface of the pipe reduces energy consumption due to friction free water flow, increasing the life of the pump.
- The high torque resistance locking system ensures excellent mechanical strength.
- Easy to install.
- Non-toxic, rust and deposit free.
- Lead-free.
- Obtains higher well yields than conventional metallic pipes.
- High tensile strength.
- Light weight and can be quickly transported.
- The EPDM "O" rings provide trouble free operations and fully water-tight joints.
- More economical than mild steel (MS) pipes.
- Manufactured with a bi-axially oriented production technique.
- High impact strength.
- The bell end variant of the column pipe is light weight and economical.

APPLICATION

Column pipes are ideal for both urban and rural application as they are used for water extraction from bore-wells.