



C.R.I. PIPES

ONE STOP PIPING SOLUTION



Quality in every inch.

uPVC COLUMN PIPES

Coupler & Bell Mouth Type

These pipes are specially designed for submersible pumps, capable of handling both internal hydrostatic pressure as well as high tensile load caused by the pump weight & column water pressure and weight. In general the first pipe fitted with the pump will be subjected to high hydrostatic pressure and the top most one has to withstand the entire weight of the column water & pump. These pipes are available in 33, 42, 48, 60, 75, 88, 113, and 140 mm sizes of outer diameter under ESPY, Elite, Medium, Standard, Heavy and Super Heavy types. The Maximum Working Head for Coupler type is upto 450 mtrs and for Bell Mouth upto 300 mtrs.

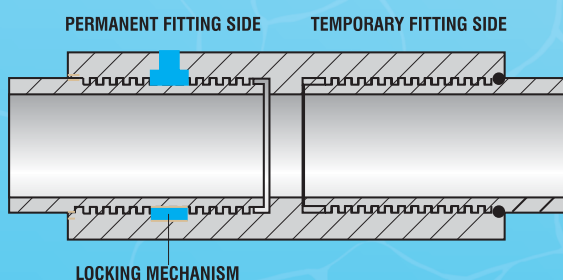


FEATURES

- Rigid construction & longer life span of upto 25 years.
- Best alternate for G.I. Pipes and are corrosion free & cost effective.
- Special care is taken while fixing couplers with pipes to avoid column slippage.
- Specially designed square threads are capable of withstanding heavy load.
- PBTS (Polymer Bonded Thread Sink) locking system enhances reliability.
- Special rubber seal is provided at the end of threads to ensure 100% leak proof even at high pressure.
- A special rubber (EPDM - high strand) ring is provided in the coupling between the 2 pipes to absorb the vibration caused due to high pressure.
- Internal surface of these pipes are very smooth, resulting in very low head loss due to friction and increases water discharge upto maximum of 30%, compared with traditional G.I. pipes thereby saving power.
- Because of this light weight characteristic & Special Square thread design these pipes can be tightened easily by hand and no need of pipe wrench.
- uPVC column pipes are resistant to chemical reactions when used in acidic or alkaline waters assuring long life.
- Handles water with maximum temperature upto 45° C.
- These pipes come in 3metre standard length and are of light weight ensuring easy handling and storage. Also supplied in 1.5metre length on request.
- Can be used in sun light because of it UV stability.

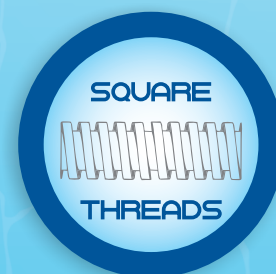
PBTS - LOCKING SYSTEM

(Polymer Bonded Thread sink)



The pipe couplers are locked with a special locking mechanism called PBTS. Advantage of this system is, it cannot be un-threaded and dismantled and will provide rigid locking. It will withstand high tensile force, ensures durability of the joints, and also acts as leak proof.

SQUARE THREADS



The pipe joints have been specially designed with square threads & rubber rings made off Vinoprene, to ensure proper gripping & 100% leak proof. These are high friction threads on load, which do not open even on constant forward & reverse torque generated by starting and stopping the pump.

C.R.I. uPVC COLUMN PIPES - COUPLER

Dimension & Weight details

ESPY TYPE	OUTER DIAMETER	NOMINAL DIAMETER	WALL THICKNESS AT ENDS (mm)		WALL THICKNESS AT BARELL (mm)		MAX. RECOMMENDED INSTALLATION DEPTH in metre	NO. OF PIPES PER BUNDLE	ULTIMATE BREAKING LOAD in kg	SAFE PULLING LOAD WITH CHAIN PULLEY in kg
	mm	mm	Min	Max	Min	Max				
	33	25	3.40	3.60	1.60	1.80	125	25	800	480
	42	32	3.70	4.00	2.00	2.30	125	25	1350	770
	48	40	3.80	4.10	2.40	2.70	125	20	1750	1000

ELITE TYPE	OUTER DIAMETER	NOMINAL DIAMETER	WALL THICKNESS AT ENDS (mm)		WALL THICKNESS AT BARELL (mm)		MAX. RECOMMENDED INSTALLATION DEPTH in metre	NO. OF PIPES PER BUNDLE	ULTIMATE BREAKING LOAD in kg	SAFE PULLING LOAD WITH CHAIN PULLEY in kg
	mm	mm	Min	Max	Min	Max				
	33	25	25	3.60	3.90	1.70	2.00	150	25	1000700
	42	32	32	4.70	5.00	2.50	2.80	150	25	15001000
	48	40	40	5.00	5.30	2.80	3.10	150	20	20001200
	60	50	50	4.50	4.80	2.40	2.70	90	15	25001300

MEDIUM TYPE	OUTER DIAMETER	NOMINAL DIAMETER	WALL THICKNESS AT ENDS (mm)		WALL THICKNESS AT BARELL (mm)		MAX. RECOMMENDED INSTALLATION DEPTH in metre	NO. OF PIPES PER BUNDLE	ULTIMATE BREAKING LOAD in kg	SAFE PULLING LOAD WITH CHAIN PULLEY in kg
	mm	mm	Min	Max	Min	Max				
	33	25	4.20	4.50	2.00	2.30	210	25	1400	770
	42	32	5.10	5.40	3.10	3.40	210	20	2100	1200
	48	40	5.50	5.80	3.30	3.60	210	15	2500	1300
	60	50	5.30	5.60	2.80	3.10	130	15	2800	1500
	75	65	5.30	5.60	2.80	3.10	100	10	3500	1900
	88	80	6.00	6.30	3.40	3.70	110	8	5000	2750
	113	100	6.30	6.60	3.80	4.10	100	5	7500	4100
Plus	60	50	5.60	5.9	3.4	3.7	170	10	3150	1850

STANDARD TYPE	OUTER DIAMETER	NOMINAL DIAMETER	WALL THICKNESS AT ENDS (mm)		WALL THICKNESS AT BARELL (mm)		MAX. RECOMMENDED INSTALLATION DEPTH in metre	NO. OF PIPES PER BUNDLE	ULTIMATE BREAKING LOAD in kg	SAFE PULLING LOAD WITH CHAIN PULLEY in kg
	mm	mm	Min	Max	Min	Max				
	33	25	5.40	5.70	3.30	3.60	300	25	1800	1300
	42	32	5.70	6.00	3.50	3.80	260	20	2500	1500
	48	40	6.30	6.60	4.00	4.30	260	15	3000	1700
	60	50	6.50	6.80	4.00	4.30	200	10	3800	2100
	75	65	6.80	7.10	4.40	4.70	160	8	5000	2700
	88	80	8.00	8.30	5.40	5.70	170	5	7000	4000
	113	100	8.20	8.50	5.70	6.00	150	4	10300	5700
	140	125	10.30	10.6	7.6	7.9	160	2	16500	9700

HEAVY TYPE	OUTER DIAMETER	NOMINAL DIAMETER	WALL THICKNESS AT ENDS (mm)		WALL THICKNESS AT BARELL (mm)		MAX. RECOMMENDED INSTALLATION DEPTH in metre	NO. OF PIPES PER BUNDLE	ULTIMATE BREAKING LOAD in kg	SAFE PULLING LOAD WITH CHAIN PULLEY in kg
	mm	mm	Min	Max	Min	Max				
	42	32	6.60	6.90	4.50	4.80	350	15	3100	1550
	48	40	7.60	7.90	5.20	5.50	350	12	4000	2000
	60	50	8.10	8.40	5.40	5.70	270	10	4700	2850
	75	65	9.20	9.60	6.40	6.70	260	6	7000	4200
	88	80	10.10	10.40	7.60	7.90	260	5	9500	5700
	113	100	11.90	12.30	9.40	9.70	260	3	16000	9500
	140	125	15.32	15.62	11.9	12.2	260	2	24000	14600
Plus	63	50	8.70	9.1	6.2	6.5	300	8	5750	3400

SUPER HEAVY TYPE	OUTER DIAMETER	NOMINAL DIAMETER	WALL THICKNESS AT ENDS (mm)		WALL THICKNESS AT BARELL (mm)		MAX. RECOMMENDED INSTALLATION DEPTH in metre	NO. OF PIPES PER BUNDLE	ULTIMATE BREAKING LOAD in kg	SAFE PULLING LOAD WITH CHAIN PULLEY in kg
	mm	mm	Min	Max	Min	Max				
	42	32	7.80	8.1	5.3	5.6	400	12	3150	1850
	60	50	9.20	9.50	6.80	7.10	350	8	5600	3500
	75	65	11.30	11.60	8.80	9.10	350	5	8600	4800
	88	80	12.80	13.10	10.00	10.30	350	4	11900	6600
	113	100	15.10	15.40	12.60	13.00	350	2	19800	11000
	140	125	19.00	19.3	15.6	15.9	350	2	30500	18600
Plus	42	32	8.50	8.80	6.00	6.3	450	12	3500	2100

C.R.I. uPVC COLUMN PIPES - BELLMOUTH

Dimension & Weight details

ESPY TYPE	OUTER DIAMETER	NOMINAL DIAMETER	WALL THICKNESS AT ENDS (mm)		WALL THICKNESS AT BARELL (mm)		MAX. RECOMMENDED INSTALLATION DEPTH in metre	NO. OF PIPES PER BUNDLE	ULTIMATE BREAKING LOAD in kg	SAFE PULLING LOAD WITH CHAIN PULLEY in kg
	mm	mm	Min	Max	Min	Max				
	33	25	3.40	3.60	1.60	1.80	125	25	650	460
	42	32	3.70	4.00	2.00	2.30	125	25	1100	725
	48	40	3.80	4.10	2.40	2.70	125	20	1300	800

ELITE TYPE	OUTER DIAMETER	NOMINAL DIAMETER	WALL THICKNESS AT ENDS (mm)		WALL THICKNESS AT BARELL (mm)		MAX. RECOMMENDED INSTALLATION DEPTH in metre	NO. OF PIPES PER BUNDLE	ULTIMATE BREAKING LOAD in kg	SAFE PULLING LOAD WITH CHAIN PULLEY in kg
	mm	mm	Min	Max	Min	Max				
	33	25	3.60	3.90	1.70	2.00	150	25	900	630
	42	32	4.70	5.00	2.50	2.80	150	25	1500	1000
	48	40	5.00	5.30	2.80	3.10	150	20	1900	1170
	60	50	4.50	4.80	2.40	2.70	90	15	2200	1300

MEDIUM TYPE	OUTER DIAMETER	NOMINAL DIAMETER	WALL THICKNESS AT ENDS (mm)		WALL THICKNESS AT BARELL (mm)		MAX. RECOMMENDED INSTALLATION DEPTH in metre	NO. OF PIPES PER BUNDLE	ULTIMATE BREAKING LOAD in kg	SAFE PULLING LOAD WITH CHAIN PULLEY in kg
	mm	mm	Min	Max	Min	Max				
	33	25	4.20	4.50	2.00	2.30	210	25	1250	720
	42	32	5.10	5.40	3.10	3.40	210	25	2000	1150
	48	40	5.50	5.80	3.30	3.60	210	20	2300	1250
	60	50	5.30	5.60	2.80	3.10	130	15	2700	1450

STANDARD TYPE	OUTER DIAMETER	NOMINAL DIAMETER	WALL THICKNESS AT ENDS (mm)		WALL THICKNESS AT BARELL (mm)		MAX. RECOMMENDED INSTALLATION DEPTH in metre	NO. OF PIPES PER BUNDLE	ULTIMATE BREAKING LOAD in kg	SAFE PULLING LOAD WITH CHAIN PULLEY in kg
	mm	mm	Min	Max	Min	Max				
	33	25	5.40	5.70	3.30	3.60	300	25	1550	1100
	42	32	5.70	6.00	3.50	3.80	260	25	2200	1380
	48	40	6.30	6.60	4.00	4.30	260	20	2700	1500
	60	50	6.50	6.80	4.00	4.30	200	15	3500	1950

PUMP DELIVERY PRESSURE

Pump delivery pressure is the maximum delivery head of the pump. In the pump performance curves the value of head at which the flow becomes nil (zero), is the max. head in metres. Hence the max. head of the pump must not exceed the recommended permissible hydrostatic pressure of the pipes published in the following table.

(10m = 1kg/cm²)

OUTER DIAMETER	NOMINAL DIAMETER	Permissible Hydrostatic Pressure (kg/cm ²)									
		ESPY	ELITE	MEDIUM	MEDIUM PLUS	STANDARD	HEAVY	HEAVY PLUS	SUPER HEAVY	SUPER HEAVY PLUS	
33	25	12.5	15	21	-	30	-	-	-	-	
42	32	12.5	15	21	-	26	35	-	40	45	
48	40	12.5	15	21	-	26	35	-	-	-	
60	50	-	9	13	17	20	27	-	35	-	
63	50	-	-	-	-	-	-	30	-	-	
75	65	-	-	10	-	16	26	-	35	-	
88	80	-	-	11	-	17	26	-	35	-	
113	100	-	-	10	-	15	26	-	35	-	
140	125	-	-	-	-	16	26	-	35	-	

* Installation depth depends on recommended permissible hydrostatic pressure rating of the pipes and refer pump delivery pressure chart for more details.



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