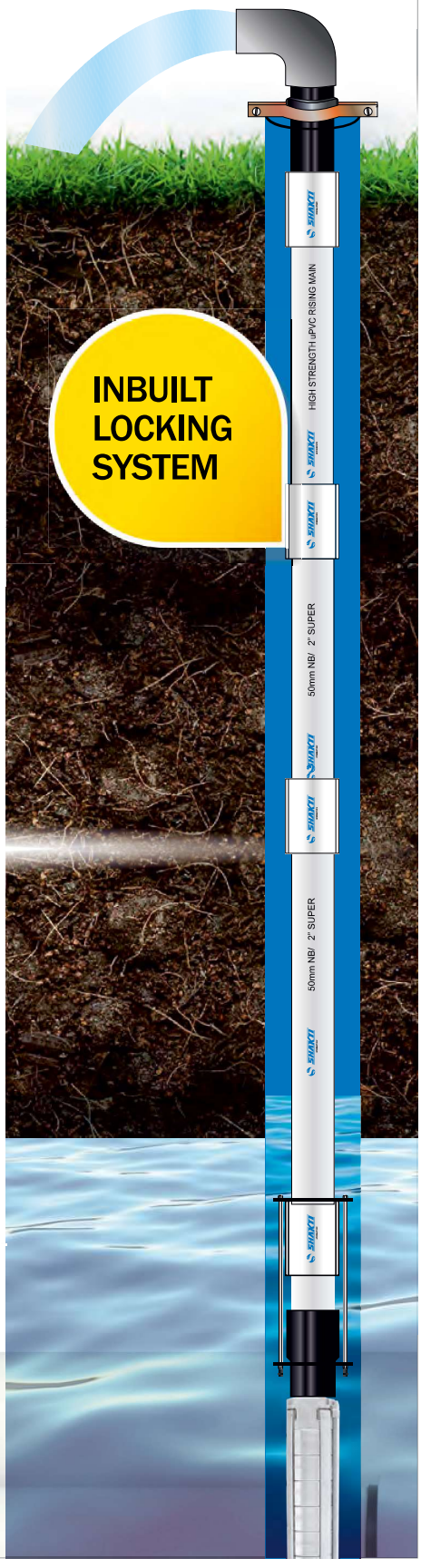
uPVC COLUMN PIPES

SALIENT FEATURES

- ISO 9001-2015 certified
- Non-toxic in every way
- Suitable for depth up to 1200 ft
- Save electricity
- Available in the range of 1 Inch - 6 Inch
- Long lasting
- 25% more discharge as compared to galvanized pipes
- No chance of chemicals getting deposited
- Easy to carry, handle & install
- Very cost-effective



SUPERIOR DESIGN

- High quality finish that ensures unobstructed flow of water.
- Square threads ensure high tensile load capacity.
- Rubber gasket & spigot ends both inside & outside, ensure smooth joining as well as pressure sealing.
- Step ring prevents leakage, tremor & excess tightening to a great extent.
- Sealing ring on the inside ensures that all joints are leak proof, while also eliminating possibility of excess tightening to a great extent.
- Outer ring too, minimises joint leakage as well as excess tightening.
- Pipes are joined by means of coupler which remains locked due to inbuilt locking system.
- Thus, there is always a surety that neither the column pipe will slip & fall out nor the coupler will come out while fitting or removing the pump.
- There is 25% increased water flow due to smooth inside surface, as also ensuring 20% less electricity consumption.
- Clear & visible Shakti Hallmark eliminates any possibility of falling prey to spurious uPVC pipes.

PACKING DETAILS (Nos. of Pipes/ Bundle)

Size	3/2.9 Meter
1"	25
1.25"	20
1.5"	15
2"	10
2.25"	10
2.5"	8
3"	6
4"	4
5"	2
6"	2

Neno	2									
	10									
Medium	1"	1.25"	1.50"	2"	2.25"	2.50"	3"	4"	5"	
	25	20	15	10	10	8	6	4	2	
Standard	1"	1.25"	1.50"	2"	2.25"	2.50"	3"	4"	5"	
	25	20	15	10	10	8	6	4	2	
Heavy	1"	1.25"	1.50"	2"	2.25"	2.50"	3"	4"	5"	6"
	25	20	15	10	10	8	6	4	2	2
Super Heavy	1"	1.25"	1.50"	2"	2.25"	2.50"	3"	4"	5"	
	25	25	20	10	10	8	6	4	2	



uPVC COLUMN PIPES

SHORT COUPLER - TECHNICAL DETAILS



Type & Size OD- Outside Dia. NB- Nominal Bore	Ultimate Breaking Load (KG)	Safe Pulling Load with Chain Pulley (KG)	Safe Allowable Hydrostatic Pressure BAR/KG	Safe Total Pump Delivery Head (mtr.)
OD 33 mm (1") ND: 25 mm				
Medium	900	500	15	130
Standard	1200	700	21	200
Heavy	1650	950	26	240



Type & Size OD- Outside Dia. NB- Nominal Bore	Ultimate Breaking Load (KG)	Safe Pulling Load with Chain Pulley (KG)	Safe Allowable Hydrostatic Pressure BAR/KG	Safe Total Pump Delivery Head (mtr.)
OD 42 mm (1.25") ND: 32 mm				
Medium	1600	850	15	130
Standard	1700	1000	21	200
Heavy	2550	1500	26	250



Type & Size OD- Outside Dia. NB- Nominal Bore	Ultimate Breaking Load (KG)	Safe Pulling Load with Chain Pulley (KG)	Safe Allowable Hydrostatic Pressure BAR/KG	Safe Total Pump Delivery Head (mtr.)
OD 48 mm (1.5") ND: 40 mm				
Medium	1900	1100	15	130
Standard	2850	1600	26	250
Heavy	4000	2300	35	350



uPVC COLUMN PIPES

SHORT COUPLER - TECHNICAL DETAILS



Type & Size OD- Outside Dia. NB- Nominal Bore	Ultimate Breaking Load (KG)	Safe Pulling Load with Chain Pulley (KG)	Safe Allowable Hydrostatic Pressure BAR/KG	Safe Total Pump Delivery Head (mtr.)
OD 60 mm (2") ND: 50 mm				
Medium	3150	1850	15	130
Standard	3600	2100	21	200
Heavy	4700	2800	27	270
Super Heavy	5650	3350	35	350



Type & Size OD- Outside Dia. NB- Nominal Bore	Ultimate Breaking Load (KG)	Safe Pulling Load with Chain Pulley (KG)	Safe Allowable Hydrostatic Pressure BAR/KG	Safe Total Pump Delivery Head (mtr.)
OD 75 mm (2.5") ND: 65 mm				
Medium	3100	1800	13	100
Standard	4650	2700	18	160
Standard Plus	5100	3000	21	200
Heavy	7000	4200	26	260
Super Heavy	9000	5300	35	350



Type & Size OD- Outside Dia. NB- Nominal Bore	Ultimate Breaking Load (KG)	Safe Pulling Load with Chain Pulley (KG)	Safe Allowable Hydrostatic Pressure BAR/KG	Safe Total Pump Delivery Head (mtr.)
OD 88 mm (3") ND: 80 mm				
Medium	4450	2600	11	110
Standard	6800	4000	18	170
Standard Plus	7500	4400	21	190
Heavy	9600	5650	26	200
Super Heavy	12400	7300	35	350



uPVC COLUMN PIPES

SHORT COUPLER - TECHNICAL DETAILS



Type & Size OD- Outside Dia. NB- Nominal Bore	Ultimate Breaking Load (KG)	Safe Pulling Load with Chain Pulley (KG)	Safe Allowable Hydrostatic Pressure BAR/KG	Safe Total Pump Delivery Head (mtr.)
OD 113 mm (4") ND: 100 mm				
Medium	6800	4000	10	100
Standard	10000	5900	16	150
Heavy	15900	9350	26	200
Super Heavy	20600	12150	35	350



Type & Size OD- Outside Dia. NB- Nominal Bore	Ultimate Breaking Load (KG)	Safe Pulling Load with Chain Pulley (KG)	Safe Allowable Hydrostatic Pressure BAR/KG	Safe Total Pump Delivery Head (mtr.)
OD 140 mm (5") ND: 125 mm				
Medium	12200	7750	10	130
Standard	16400	9650	16	160
Heavy	24000	14600	26	230
Super Heavy	30500	18600	35	350



Type & Size OD- Outside Dia. NB- Nominal Bore	Ultimate Breaking Load (KG)	Safe Pulling Load with Chain Pulley (KG)	Safe Allowable Hydrostatic Pressure BAR/KG	Safe Total Pump Delivery Head (mtr.)
OD 165 mm (6") ND: 150 mm				
Heavy	40000	23500	26	260



uPVC COLUMN PIPES

LONG COUPLER - TECHNICAL DETAILS



Type & Size OD- Outside Dia. ND- Nominal Dia.	Ultimate Breaking Load (KG)	Safe Pulling Load with Chain Pulley (KG)	Safe Allowable Hydrostatic Pressure	Safe Total Pump Delivery
			Bar/Kg	Head (mtr.)
OD 60 mm (2") ND: 50 mm				
Nano	2000	1200	13	90
Medium	3150	1850	15	130
Standard	3600	2100	21	200
Heavy	4700	2800	27	270
Super Heavy	5650	3350	35	350



Type & Size OD- Outside Dia. ND- Nominal Dia.	Ultimate Breaking Load (KG)	Safe Pulling Load with Chain Pulley (KG)	Safe Allowable Hydrostatic Pressure	Safe Total Pump Delivery
			Bar/Kg	Head (mtr.)
OD 75 mm (2.5") ND: 65 mm				
Medium	3100	1800	13	100
Standard	4650	2700	18	160
Heavy	7000	4200	26	260
Super Heavy	9000	5300	35	350



Type & Size OD- Outside Dia. ND- Nominal Dia.	Ultimate Breaking Load (KG)	Safe Pulling Load with Chain Pulley (KG)	Safe Allowable Hydrostatic Pressure	Safe Total Pump Delivery
			Bar/Kg	Head (mtr.)
OD 88 mm (3") ND: 80 mm				
Medium	4450	2600	11	110
Standard	6800	4000	18	170
Standard Plus	7000	4200	21	190
Heavy	9600	5650	26	200
Super Heavy	12400	7300	35	350



uPVC COLUMN PIPES

LONG COUPLER - TECHNICAL DETAILS



Type & Size OD- Outside Dia. ND- Nominal Dia.	Ultimate Breaking Load (KG)	Safe Pulling Load with Chain Pulley (KG)	Safe Allowable Hydrostatic Pressure	Safe Total Pump Delivery
			Bar/Kg	Head (mtr.)
OD 113 mm (4") ND: 100 mm				
Medium	6800	4000	10	100
Standard	10000	5900	16	150
Standard Plus	11500	6000	21	170
Heavy	15900	9350	26	200
Super Heavy	20600	12150	35	350



Type & Size OD- Outside Dia. ND- Nominal Dia.	Ultimate Breaking Load (KG)	Safe Pulling Load with Chain Pulley (KG)	Safe Allowable Hydrostatic Pressure	Safe Total Pump Delivery
			Bar/Kg	Head (mtr.)
OD 140 mm (5") ND: 125 mm				
Medium	12200	7750	10	130
Standard	16400	9650	16	160
Heavy	24000	14600	26	230
Super Heavy	30500	18600	35	350



Type & Size OD- Outside Dia. ND- Nominal Dia.	Ultimate Breaking Load (KG)	Safe Pulling Load with Chain Pulley (KG)	Safe Allowable Hydrostatic Pressure	Safe Total Pump Delivery
			Bar/Kg	Head (mtr.)
OD 165 mm (6") ND: 150 mm				
Heavy	40000	23500	26	260



uPVC COLUMN PIPES

QUALITY CONTROL PROCEDURES

The pipes and couplers manufactured at Shakti, follow a stringent quality control process in order to supply a defect free system to its users.

Test	Standard
Short Term Hydrostatic Pressure Test	As per IS 4985-1988
Impact Strength	As per IS 4985-2000 Testing done at 6 to 20 times higher than specifications
Tensile Strength	As per IS 12818-1992
Joint Pressure Test	As per IS 12235-2004 Should be one or two times of working pressure (depending on size)
Specific Gravity	As per IS 12818-1992 Between 1.40 - 1.43

INSTALLATION GUIDE

Step 1:
Join the metal connector with submersible pump with the help of a chain wrench.

Step 2:
Before joining the pipes, ensure to clean the threads with clean water.

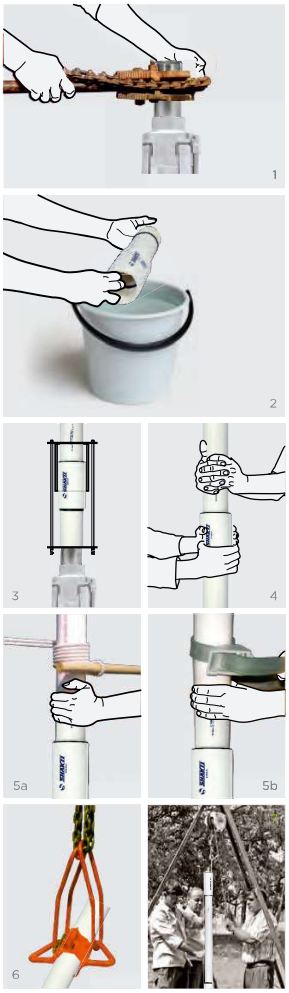
Step 3:
Before joining the pipes, ensure that the pump guard is installed properly.

Step 4:
Before opening or joining the pipe/adaptor ensure to hold the coupling by hand.

Step 5a/5b:
Tighten pipe with hand till half rubber ring is seen. Finally if required, give a last jerk with rope or felt wrench.

Step 6:
At the time of lowering Shakti pipes, place the clamp below the coupler. Clamp the top adaptor with the last pipe.

Step 7:
Lower the pipes with the help of chain pully.





uPVC COLUMN PIPES

ADAPTER

SS TOP ADAPTER



SS BOTTOM ADAPTER



CI TOP ADAPTER



CI BOTTOM ADAPTER



Available in all sizes from 1 Inch to 6 Inch Column Pipes

