

**HIGH STRENGTH COLUMN PIPES**



PIPING SOLUTION  
**FOR BORE WELLS**

# About Us

Ajay Pipes is part of an over 50 year old organization, a leader in plumbing & drainage solutions offering complete range of piping products for internal and external use. The company offers advance engineered, value added and superior quality products through its multi- locational manufacturing, nationwide dealer network and support team.

## Mission

“To ensure customer service and satisfaction by providing high quality plastic piping solutions through a ubiquitous distribution network, spreading product awareness and constantly improving manufacturing and operational efficiencies through systems and result oriented, competent manpower resources thereby creating sustained value for all our customers and stakeholders while maintaining high ethical standards”

## Core Values

- Invest in Quality of People First
- Go the Last Mile for the Customer
- Focus on Innovation and Speed
- Run Lean and Unbureaucratic
- Improve Performance every single day
- Act Honestly, with Integrity and Citizenship
- Work Hard, Oriented to Results, yet have fun

The company has been the pioneer in

- UPVC pipe manufacturing
- Reinforced suction Hose
- Reinforced Layflat Hose
- UPVC Corrugated pipes
- Handpumps

## Infrastructure

- Factories at Dehradun, Pune and Delhi
- Certified ISO 9001, ISO 14001 and OHSAS 18001
- Pipes manufactured using latest twin screw technology
- Fittings using advanced injection molding technique
- 11 Warehouses in different parts of the country
- Well equipped Tool rooms
- Full equipped laboratories and development facilities
- 500+ strong distribution network
- Trained sales force

## Other Divisions

- Handpumps
- Screen and Casing pipes
- Relieflines products
- Tubelight Fixtures
- Mainline electrical power outlet system
- Customised extruded profiles



DELHI OFFICE



PUNE PLANT



DEHRADUN PLANT

# Ajay Manufacturers

## Complete Range of:

**AJAY FLOWLINE PLUS**  
PLUMBING FOR LIFE CPVC PIPES & FITTINGS



### FEATURES AND BENEFITS

- 25% Higher Performance
- Proven hot water performance upto 93°C
- The only NSF Certified CPVC Pipes and Fittings. Manufactured from imported environment friendly virgin high performance CPVC Compounds
- Safe for drinking water and human health
- Exceptional all weather corrosion resistance
- No scaling or pitting maintains flow
- Microbial resistance
- Self extinguishing
- UV resistance
- Low thermal expansion
- High impact resistance
- Fast and Easy installation
- Consistent and reliable jointing
- Cost effective

### RANGE AVAILABLE

CPVC Pipes – SDR 11 – 1/2” to 2”  
 CPVC Pipes – SDR 13.5 – 1/2” to 2”  
 CPVC Pipes – SCH 40 – 2-1/2” to 8”  
 CPVC Pipes – SCH 80 – 2-1/2” to 8”

Fittings – SDR 11 - 1/2” to 2”  
 Fittings – SCH 80 - 2-1/2” to 8”  
 Fittings – SCH 40 - 2-1/2” to 4”  
 Ball Valves, Unions & Flanges  
 Solvents & Primers



**Complete Solution For Hot And Cold Water Plumbing**

### FEATURES AND BENEFITS

- Manufactured from environment friendly virgin UPVC Compounds
- Lead free material does not affect water quality for human health
- Does not corrode
- Does not support scaling even in hard water conditions.
- High strength.
- All weather UV resistance.
- Does not support combustion.
- Good impact resistance.
- Fast and Easy installation
- Consistent and reliable jointing
- Stringent quality control
- Cost effective with very low lifetime ownership cost
- Ajay Greenline is fully compatible with cold water plumbing system

### RANGE AVAILABLE

UPVC Pipes – SCH 40 - 1/2” to 8”  
 UPVC Pipes – SCH 80 - 1/2” to 8”

Fittings – SCH 80 - 1/2” to 8”  
 Fittings – SCH 40 - 2 1/2” to 4”  
 Ball Valves, Unions & Flanges  
 Solvents & Primers



**AJAY GREENLINE**  
PLUMBING FOR LIFE UPVC PIPES & FITTINGS



**Complete Solution For Cold Water Plumbing**

# Ajay Manufacturers

## Complete Range of:

**AJAY DRAINLINE**  
PLUMBING FOR LIFE SWR PIPES & FITTINGS



### FEATURES AND BENEFITS

- Quick and Easy Installation due to Light weight pipes and Fittings.
- Leak proof joints.
- Maintenance free systems .
- All pipe and fittings in strict compliance to standards.
- Available in Ring fit jointing & solvent fit jointing systems
- Full range of pipe and fittings
- Pipe manufactured using latest twin screw technology and fittings using latest injection molding technology.
- Corrosion and rust proof.
- Chemical resistant (Specially to most household chemicals)
- High flow rate with smooth and no scaling or depositions.

### RANGE AVAILABE

SWR Pipe - Solvent Fit and Ring Fit  
Size: 75 mm, 90mm, 110 mm, 160 mm

AGRI Pipe - 20mm, 25mm, 32 mm, 40 mm, 50mm, 63 mm, 75 mm, 90 mm, 110 mm, 140mm, 160 mm, 180mm, 200 mm, 225mm, 250mm, 315mm

SWR Fittings - Solvent Fit and Ring Fit Type: 75 mm, 110 mm, 160 mm

AGRI Fittings - 40 mm, 50 mm, 63 mm, 75 mm, 90 mm, 110 mm,

WC & Pan Connectors

Wash Basin & Sink Bottle Traps & P-Traps

Air Admittance Valves  
Aerator



**Complete Solution For  
Soil Waste And Rain Water Drainage**

### FEATURES AND BENEFITS

- Freedom from leakage
- Long life
- Anti-rodent
- Easy transportation, light in weight and easy to handle
- Fast and easy installation, even in wet conditions
- Resistance to abrasion, smooth bore pipe with longer intervals between joints reduces the risk of blockage
- Resistance to high temperatures (40°C @ constant flow and 60°C @ short-term flow)
- Good Impact resistance
- Guaranteed stiffness

### RANGE AVAILABE

PIPES - Foam Core Type  
Class - SN 2/ SN 4/ SN 8  
Size - 110/160/200/250/315  
Fitment - Ring Fit & Solvent Fit

FITTINGS  
Class - SN 4  
Size - 110/160/200/250/315  
Fitment - Ring Fit & Solvent Fit

VALVES & TRAPS  
Non-Return Valve - 110 & 160  
Bottle Gully Trap - 110  
Low Back & Long Body P-Trap - 110  
Swivel Adapter - 110 & 160

INSPECTION CHAMBERS WITH ACCESSORIES  
Size - 315 & 450  
Type: Multi - Inlet Universal  
Shaft - Riser Pipe  
Frame & Cover - Circular Type A  
End Plugs - 110 & 160



**AJAY TERRALINE**  
PLUMBING FOR LIFE UDS PIPES & FITTINGS



**Complete Solution For  
Underground Drainage**

# Why Ajay Deepline UPVC Column Pipes?

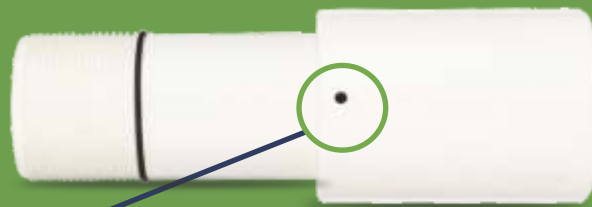
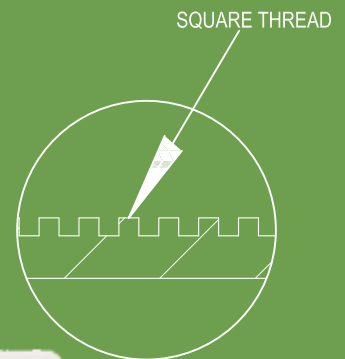
- Ajay is the oldest piping manufacturer in India with
  - a. Advanced Manufacturing technology
  - b. Sophisticated labs for both incoming and in-process material testing and quality assurance
  - c. Stringent quality control for consistent defective free product
- Ajay Deepline Column Pipes are made from virgin high strength UPVC Compound. Special formulations ensure high strength, high pressure bearing capability and high impact strength
- Ajay Deepline Column Pipes are being used in many countries across the world successfully and is an ideal replacement for Gland HDPE pipes
- Incorporates special square threads which coupled with high impact formulation ensures high strength and resists cracking
- Incorporate the novel Screw-Lock system which provides extra protection for pump
- Very easy installation
- Incorporates Rubber O-rings that prevent water leakage and help absorb pump vibration
- Maintenance free system



# Highlights of Ajay Deepline

- **SQUARE THREADS:**

Ajay uses advanced fully automated precision CNC machines for making threads. Special square thread of Ajay Deepline Column pipes are designed to bear maximum load. These pipes can be assembled and disassembled very easily & quickly.



- **SCREW LOCK:**

Ajay provide unique screw locking system which eliminates the chances of coupler loosening and slipping of column during dismantling process.

- **MANUFACTURING TECHNIQUE:**

Ajay use special "THICK and THIN" technique to make pipes thicker in the threading section. This technique provides much higher strength to the pipe at lower cost.

- **FORMULATION:**

Ajay Deepline Column pipes are made with unique designed formulation to enhance internal hydrostatic pressure and vertical tensile load on the pipe due to water column and pump weight respectively.

- **HIGH PRESSURE ORIENTATION:**

High Pressure orientation during column pipe extrusion : Ajay follows a unique High Pressure orientation technique, which gives higher drop impact and notch impact strength to the pipes.

- **DUAL FUNCTION:**

Ajay Deepline Column Pipe on one hand withstand the pump delivery pressure and on the other hand the top most pipe bears the load of the entire column filled with water and pump.

The bottom most pipes gets subjected to highest internal hydrostatic pressures required to pump the water out of the riser pipe and raise it to the required storage level.

# Benefits of Deepline Column Pipes & Applications

## Benefits of Deepline Column Pipes

- Manufactured from environment friendly virgin UPVC Compounds.
- High Tensile
- Non Corrosive
- High Impact resistance
- Rigid
- Low installation cost. Relatively cheaper than conventional GI/ERW pipes.
- High surface finish increases flow rate and reduces pressure loss.
- EPDM 'O' rings are used for joints to ensure 100% leak proof joint and also absorbs jerks when the pump is switch on or off.
- Very long life
- Light weight
- Better water output (upto 30% more) due to lower C-factor
- No scaling and electrolytic deposition
- Power saving due to much lower friction

## Applications of Deepline Column Pipes

- Water rising for submersible and jet pump for irrigation, domestic, industrial mining, chemical distribution.
- A good substitute for MS, ERW, GI, HDPE & SS Column pipes.
- Ajay Deepline Column Pipes are nearly inert towards corrosion, chemical reaction and erosion. Hence, it is ideally suited for long term use in salty, sandy and chemically aggressive water.



**High Strength**



**Money Saving**



**Long Lasting  
Trouble free**



# Quality Control

TYPE OF TEST	STANDARD
Hydrostatic Pressure Test	As per IS 4985
Impact Strength	As per IS 4985
Tensile Strength	As per IS 12818
Joint Pressure Test	As per IS 12235



# Technical Details

## SPECIFICATION FOR AJAY DEEPLINE COLUMN PIPES FOR SUBMERSIBLE PUMPS

Size & Type Nominal Dia.(Inch/mm)	Wall Thickness in mm.		Outer OD (mm) Min/Max	Effective Length (mm)	Thick Portion Length of Both Side (mm)
	End Min/Max	Barrel Min/Max			
<b>1" (ND 25mm)</b>					
V4-12.5 (Bell Type)	3.65 – 4.55	1.60 – 2.50	32.6 – 33.2	3050 ± 10mm	120 - 120
V4-15 (Bell Type)	3.65 – 4.55	1.90 – 2.80	32.6 – 33.2	3050 ± 10mm	200 - 200
Standard (Bell Type)	4.85 – 6.05	3.10 – 3.95	32.6 – 33.2	3050 ± 10mm	200 - 200
<b>1" (ND 25mm)</b>					
V4-12.5 (Socket Type)	3.95 – 4.80	1.60 – 2.50	32.6 – 33.2	2998 ± 3mm	120 - 120
V4-15 (Socket Type)	4.00 – 5.00	1.90 – 2.80	32.6 – 33.2	2998 ± 3mm	200 - 200
Standard (Socket Type)	5.20 – 6.10	3.10 – 3.95	32.6 – 33.2	2998 ± 3mm	200 - 200
<b>1-1/4" (ND 32mm)</b>					
V4-12.5 (Bell Type)	4.10 – 5.00	2.00 – 3.00	41.5 – 42.2	3050 ± 10mm	120 - 120
V4-15 (Bell Type)	4.10 – 5.00	2.40 – 3.15	41.5 – 42.2	3050 ± 10mm	200 - 200
Standard (Bell Type)	5.05 – 6.00	3.35 – 4.15	41.5 – 42.2	3050 ± 10mm	200 - 200
Heavy (Bell Type)	6.25 – 7.35	4.55 – 5.45	41.5 – 42.2	3050 ± 10mm	200 - 200
<b>1-1/4" (ND 32mm)</b>					
V4-12.5 (Socket Type)	4.30 – 5.40	2.00 – 3.00	41.5 – 42.2	2998 ± 3mm	120 - 120
V4-15 (Socket Type)	4.50 – 5.40	2.40 – 3.15	41.5 – 42.2	2998 ± 3mm	200 - 200
Standard (Socket Type)	5.45 – 6.45	3.35 – 4.15	41.5 – 42.2	2998 ± 3mm	200 - 200
Heavy (Socket Type)	6.65 – 7.45	4.55 – 5.45	41.5 – 42.2	2998 ± 3mm	200 - 200
<b>1-1/2" (ND 40mm)</b>					
V4-12.5 (Bell Type)	4.55 – 5.45	2.30 – 3.10	47.5 – 48.2	3050 ± 10mm	120 - 120
V4-15 (Bell Type)	4.55 – 5.45	2.75 – 3.65	47.5 – 48.2	3050 ± 10mm	200 - 200
Standard (Bell Type)	5.75 – 6.65	3.95 – 4.85	47.5 – 48.2	3050 ± 10mm	200 - 200
Heavy (Bell Type)	7.00 – 7.90	5.20 – 6.10	47.5 – 48.2	3050 ± 10mm	200 - 200
<b>1-1/2" (ND 40mm)</b>					
V4-12.5 (Socket Type)	4.60 – 5.50	2.30 – 3.10	47.5 – 48.2	2998 ± 3mm	120 - 120
V4-15 (Socket Type)	4.85 – 5.75	2.75 – 3.65	47.5 – 48.2	2998 ± 3mm	200 - 200
Standard (Socket Type)	6.05 – 7.25	3.95 – 4.85	47.5 – 48.2	2998 ± 3mm	200 - 200
Heavy (Socket Type)	7.30 – 8.60	5.20 – 6.10	47.5 – 48.2	2998 ± 3mm	200 - 200
<b>2" (ND 50mm)</b>					
Medium	5.10 – 6.30	2.60 – 3.40	59.5 – 60.2	2998 ± 3mm	200 - 200
Standard	6.40 – 7.90	3.90 – 5.00	59.5 – 60.2	2998 ± 3mm	
Heavy	7.80 – 9.70	5.30 – 6.60	59.5 – 60.2	2998 ± 3mm	
<b>2-1/2" (ND 65mm)</b>					
Medium	5.10 – 6.30	2.60 – 3.40	74.5 – 75.2	2998 ± 3mm	200 - 200
Standard	6.50 – 8.00	4.00 – 5.10	74.5 – 75.2	2998 ± 3mm	
Heavy	9.00 – 10.70	6.30 – 7.60	74.5 – 75.2	2998 ± 3mm	
<b>3" (ND 80mm)</b>					
Medium	5.70 – 7.10	3.20 – 4.10	87.5 – 88.2	2998 ± 3mm	200 - 200
Standard	7.50 – 9.00	5.00 – 6.40	87.5 – 88.2	2998 ± 3mm	
Heavy	9.80 – 11.90	7.30 – 9.00	87.5 – 88.2	2998 ± 3mm	
<b>4" (ND 100mm)</b>					
Medium	6.30 – 7.60	3.80 – 5.00	112.5 – 113.2	2998 ± 3mm	200 - 200
Standard	8.20 – 9.80	5.70 – 7.20	112.5 – 113.2	2998 ± 3mm	
Heavy	12.20 – 14.30	9.40 – 11.50	112.5 – 113.2	2998 ± 3mm	



**SOCKET TYPE**



**BELL TYPE**

# Load & Pressure Chart

Size & Type Nominal Dia.(Inch/mm)	Ultimate Breaking Load (Kgf)	Safe Pulling Load with Chain Pulley (Kgf)	Safe Allowable Hydrostatic Pressure (Kg/Cm <sup>2</sup> )	Safe Total Pump Delivery Head (m)
<b>1" (ND 25mm)</b>	850	500	12.5	125
V4-12.5	1000	600	15	150
V4-15	1900	1100	30	300
Standard				
<b>1-1/4" (ND 32mm)</b>	1300	800	12.5	125
V4-12.5	1550	900	15	150
V4-15	2550	1500	25	250
Standard				
Heavy	3100	1800	35	350
<b>1-1/2" (ND 40mm)</b>	1700	1000	12.5	125
V4-12.5	2000	1200	15	150
V4-15	2950	1700	26	260
Standard				
Heavy	4050	2350	35	350
<b>2" (ND 50mm)</b>				
Medium	2450	1450	13	130
Standard	3600	2100	20	200
Heavy	4700	2800	27	270
<b>2-1/2" (ND 65mm)</b>				
Medium	3100	1800	10	100
Standard	4650	2700	16	160
Heavy	7000	4200	26	260
<b>3" (ND 80mm)</b>				
Medium	4450	2600	11	110
Standard	6800	4000	17	170
Heavy	9600	5650	26	260
<b>4" (ND 100mm)</b>				
Medium	6800	4000	10	100
Standard	10000	5900	15	150
Heavy	15900	9350	26	260

## Ajay Deepline Column Pipe Selection

V4-12.5 Kg/cm <sup>2</sup>	1", 1-1/4" & 1-1/2"	Up to	100mm Sub Pump
V4-15 Kg/cm <sup>2</sup>	1", 1-1/4" & 1-1/2"	Up to	100mm Sub Pump
Medium	2", 2-1/2" & 3"	Up to	150mm Sub Pump
	3" & 4"	Up to	200mm Sub Pump
	4"	Up to	250mm Sub Pump
Standard	1", 1-1/4" & 1-1/2"	Up to	100mm Sub Pump
	2", 2-1/2" & 3"	Up to	150mm Sub Pump
	3" & 4"	Up to	200mm Sub Pump
	4"	Up to	250mm Sub Pump
Heavy	1-1/4", 1-1/2", 2" & 2-1/2"	Up to	100mm Sub Pump
	3" & 4"	Up to	150mm Sub Pump
	4"	Up to	200mm Sub Pump

**Note:** In the column for every 33ft or 10mtr. above the pump there is pressure drop of 1kg/cm<sup>2</sup>. Hence in deep bore well with high pressure pump two classes of pipe of same size may be used to save cost. Heavy pipe may be attached directly to the pump and after some height and loss of delivery pressure, standard pipe may be used.

# Friction Head Loss

Approximate friction head loss in meter/100 m

SIZE (Inch)	TYPE	DISCHARGE OF PUMP (lpm)											
		40	60	80	100	120	150	180	240	300	360	400	500
1"	V4-12.5	3.08	6.54	11.15	16.85	23.62	35.71	50.05	85.28	128.92	180.70	219.64	332.04
	V4-15	3.32	7.05	12.01	18.16	25.45	38.47	53.93	91.88	138.90	194.68	236.63	357.73
	Standard	5.17	10.95	18.65	28.19	39.51	59.74	83.73	142.65	215.65	302.26	367.39	555.40
1-1/4"	V4-12.5	0.89	1.88	3.21	4.86	6.81	10.30	14.43	24.60	37.17	52.10	63.33	95.74
	V4-15	0.97	2.06	3.52	5.32	7.46	11.28	15.81	26.94	40.73	57.09	69.39	104.91
	Standard	1.27	2.69	4.59	6.93	9.72	14.69	20.59	35.09	53.04	74.35	90.37	136.61
	Heavy	1.81	3.84	6.55	9.90	13.87	20.97	29.40	50.08	75.71	106.12	128.99	195.00
1-1/2"	V4-12.5	0.45	0.96	1.64	2.49	3.49	5.27	7.39	12.60	19.05	26.07	32.46	49.07
	V4-15	0.50	1.06	1.80	2.73	3.82	5.78	8.11	13.82	20.89	29.28	35.59	53.80
	Standard	0.67	1.42	2.42	3.65	5.12	7.74	10.85	18.49	27.95	39.17	47.61	71.98
	Heavy	0.92	1.96	3.34	5.05	7.07	10.69	14.99	25.54	38.60	54.11	65.77	99.42
2"	Medium	0.14	0.30	0.52	0.79	1.10	1.66	2.33	3.97	6.01	8.42	10.23	15.47
	Standard	0.18	0.39	0.66	1.00	1.40	2.12	2.97	5.06	7.65	10.73	13.04	19.71
	Heavy	0.24	0.52	0.87	1.32	1.85	2.79	3.91	6.67	10.08	14.13	17.17	25.96
2-1/2"	Medium	0.04	0.09	0.16	0.24	0.33	0.50	0.70	1.19	1.81	2.53	3.08	4.65
	Standard	0.05	0.11	0.19	0.29	0.41	0.61	0.86	1.46	2.21	3.10	3.77	5.70
	Heavy	0.08	0.16	0.27	0.41	0.58	0.88	1.23	2.10	3.17	4.45	5.41	8.17
3"	Medium	0.02	0.04	0.07	0.11	0.15	0.23	0.32	0.55	0.83	1.17	1.42	2.15
	Standard	0.03	0.05	0.09	0.14	0.19	0.29	0.41	0.69	1.04	1.46	1.78	2.69
	Heavy	0.03	0.07	0.12	0.18	0.26	0.39	0.55	0.93	1.41	1.97	2.40	3.63
4"	Medium	0.01	0.01	0.02	0.03	0.04	0.07	0.09	0.16	0.24	0.36	0.40	0.61
	Standard	0.01	0.01	0.02	0.04	0.05	0.08	0.11	0.19	0.28	0.40	0.48	0.73
	Heavy	0.01	0.02	0.04	0.05	0.07	0.11	0.16	0.27	0.41	0.58	0.71	1.07

# Typical Load Chart

Technical comparison of total load on the top pipe and ultimate breaking load of Ajay Deepline STANDARD column pipe.

Note: This is just an indication.

TYPE OF TEST	Wt. of Pipe 500ft (Kg)	Wt. of Water Column in 500ft. (Kg)	Wt. of Pump Maximum (Kg)	Total Wt. (Kg)	Ultimate Breaking Load (Kgf)
1" (ND 25mm)	78	85	100	280	1900
1-1/4" (ND 32mm)	110	147	100	364	2550
1-1/2" (ND 40mm)	146	189	125	469	2950
2" (ND 50mm)	193	321	150	669	3600
2-1/2" (ND 65mm)	249	529	200	984	4650
3" (ND 80mm)	351	717	250	1320	6800
4" (ND 100mm)	528	1216	290	2052	10000

Note: The total wt. of the assembly is considerably reduced due to resilience when immersed in Bore well water.

# Printing & Packaging

## PACKAGING

No of pipe packed in each bundle

SIZE (Inch)	CLASS	PIPE QUANTITY/ BUNDLE
1" (Bell Type)	V4-12.5	25
	V4-15	25
	Standard	25
1" (Socket Type)	V4-12.5	20
	V4-15	20
	Standard	20
1-1/4" (Bell Type)	V4-12.5	25
	V4-15	25
	Standard	25
	Heavy	15
1-1/4" (Socket Type)	V4-12.5	20
	V4-15	20
	Standard	20
	Heavy	15
1-1/2" (Bell Type)	V4-12.5	25
	V4-15	25
	Standard	25
	Heavy	15
1-1/2" (Socket Type)	V4-12.5	20
	V4-15	20
	Standard	20
	Heavy	15
2"	Medium	15
	Standard	15
	Heavy	10
2-1/2"	Medium	10
	Standard	10
	Heavy	07
3"	Medium	05
	Standard	05
	Heavy	05
4"	Medium	05
	Standard	05
	Heavy	03

## PIPE PRINTING COLOR

PIPE CLASS	PRINTING COLOR
V4-12.5	Orange
V4-15	Purple
Medium	Orange
Standard	Red
Heavy	Blue

# Accessories

## Details of Column Pipe

**ACCESSORIES DETAILS: CI TOP ORDINARY WITHOUT FLANGE**

Size: 1" 1-1/4" 1-1/2" 2" 2-1/2" 3" 4"

**ACCESSORIES DETAILS: CI TOP WITH FLANGE SINGLE CLAMP**

Size: 1" 1-1/4" 1-1/2" 2" 2-1/2" 3" 4"

**ACCESSORIES DETAILS: CI TOP WITH FLANGE DOUBLE CLAMP**

Size: 1" 1-1/4" 1-1/2" 2" 2-1/2" 3" 4"

**ACCESSORIES DETAILS: CI BOTTOM LONG**

Size: 2" 2-1/2" 3" 4"

**ACCESSORIES DETAILS: CI BOTTOM**

Size: 1" 1-1/4" 1-1/2" 2" 2-1/2" 3" 4"

**ACCESSORIES DETAILS: CI BOTTOM WITH FLANGE**

Size: 1" 1-1/4" 1-1/2" 2" 2-1/2"

**ACCESSORIES DETAILS: SS TOP**

Size: 1" 1-1/4" 1-1/2" 2" 2-1/2" 3" 4"

**ACCESSORIES DETAILS: SS BOTTOM**

Size: 1" 1-1/4" 1-1/2" 2" 2-1/2" 3" 4"

# Accessories

## Details of Column Pipe

### ACCESSORIES DETAILS: REDUCER BOTTOM

Size: 1-1/4" X 1" 1-1/2" X 1" 1-1/2" X 1-1/4" 2" X 1-1/2"  
2-1/2" X 2" 3" X 2-1/2" 4" X 3"

### ACCESSORIES DETAILS: EXPANDER BOTTOM

Size: 1" X 1-1/4" 1-1/4" X 1-1/2" 1-1/2" X 2" 2" X 2-1/2"  
2-1/2" X 3" 3" X 4"

### ACCESSORIES DETAILS: INNER JIG

Size: 1" 1-1/4" 1-1/2" 2" 2-1/2" 3" 4"

### ACCESSORIES DETAILS: OUTER JIG

Size: 1-1/4" 1-1/2" 2" 2-1/2" 3" 4" 4"

### ACCESSORIES DETAILS: LOWERING JIG

Size: 1" 1-1/4" 1-1/2" 2" 2-1/2" 3" 4"

### ACCESSORIES DETAILS: PUMP GUARD SET

Size: 1" 1-1/4" 1-1/2" 2" 2-1/2" 3" 4"

# Handling & Storage

- The pipe must store indoor or ensure that the bundles are covered to prevent exposure to sunlight.
- Maximum stacking height of pipes must be 7 feet.
- Keep alternate layer of pipes perpendicular to each other.
- Pipe should store on flat & dry surface and must be free from any sharp objects.
- Same diameter pipe with different classes are being stacked together, place heavy pipes below.

# Important Tips

## PIPE & PUMP SAFEGUARD AGAINST DRY RUNNING

- In place where the bore well yield is less, than after sometime the pump starts running dry which may heat up the connected Ajay Deepline column pipe. A correct assessment of bore yield should be done & timer switch should be used so that pump shuts off & on automatically after a certain amount of preset time & again gets on automatically as per the setting of the timer. This will ensure that water is always in the bore well & pump does not run in dry condition.
- During pump dry running the submersible pump gets heated & may damage the first connected Ajay Deepline column pipe. Another way of handling pump dry running is to use 3mtr. Of steel pipe in the bottom connected to the pump so that the heated pump is in contact with steel pipe which will dissipate the heat till the time it reaches the connected column pipe.
- Also the dry running condition may be tackled by installing a hand operated valve at the top of the bore well and keeping it partially open so as to limit the water flow that the pump does not get dry.
- Whenever there is a dry running & pump over heating problem then there is a chance of deformation of the first pipe connected to the pump only. In case, any other pipe other than the first pipe bulges / deforms then it is clear case of high pressure of pumps & wrong selection of pipes.

# Service Condition

Ajay Deepline column pipe gives best service in bore wells which have full casing or bore wells which are free from loose boulders & stones. In such cases where loose boulders & stones are dominant then full casing or slightly larger bore should be made so that the pump does not get stuck.

Bore collapse problem occurs in some areas & it can also be tackled by giving full casing pipes. This happens in areas with loose soils & slit.

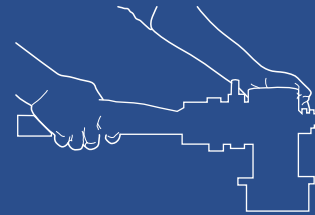
Care should also be taken during drilling of the bore wells that it is vertical straight down without any bend.

Disclaimer: Any Design & Specifications are subject to change without any prior notice.

# Installation Guidelines

1  
STEP

Fix the metal connector with submersible pump.



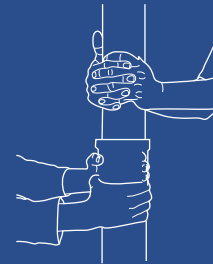
2  
STEP

Ensure cleaning of the threads before joining Ajay Deepline Column pipes.



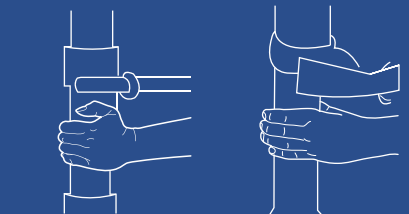
3  
STEP

Before joining Ajay Deepline Column pipes, ensure proper installation of pump guard



4  
STEP

Ensure holding of coupler. Before engaging or disengaging the pipe/ adaptor by hand.



5  
STEP

Firstly tighten pipe with hand. Finally, give a last jerk with strap wrench.



6  
STEP

During lowering of Ajay Deepline Column pipes, place the clamp below the coupler. Clamp the top adaptor with the last pipe

7  
STEP

Lower the pipes with help of chain pulley.





# FAQs

## Q What is UPVC?

UPVC means unplasticised poly vinyl chloride. Unplasticised gives rigidity to the product. Ajay Deepline Column pipes are made with modified UPVC compound to give very high impact strength and tensile strength. Pipes made of modified compound do not get brittle over long term use.

## Q What are the benefits of UPVC pipes?

We save on cost of pipes; b) We save on handling time; c) We save on power and get more water up to 30%; d) Working life of pipe is much more.

## Q Why only “Ajay” UPVC pipes?

Ajay Group, the leading UPVC pipe manufacturer in the country since 1968. Ajay has pan India presence with a very well developed distributor, dealer and service network.

## Q Can the pipes take load of pump?

Ajay Deepline column pipes are designed to hold several times the weight of entire column filled with water. All the type of pumps of different sizes has been considered and Ajay Deepline column pipes are made accordingly in the class of Medium, Standard & Heavy.

## Q How to choose from the range of pipes offered?

Right selection of pipes can be made after referring technical leaflets.

## Q Are the pipes breakable?

In normal handling condition pipe does not break.

## Q What is the life span of UPVC pipes?

Under proper usage conditions and proper storage away from sunlight the UPVC pipes in India have shown a life span of more than 50yrs.

## Q How does it effect on the quantity & quality of water?

Yes, we get more water. Over a period of use, the steel pipes get corroded, rusted and the water quality deteriorates. In Ajay pipes since there is no corrosion throughout the depth of column pipe the water quality remains good and fresh forever.

## Q Can UPVC pipe's strength be compared to a steel pipe?

The specific gravity of UPVC is 1.40 to 1.45 gm/cc whereas steel has 8 gm/cc. taking the strength of the material into consideration the pipes are optimally designed to make them light weight without any compromise in its strength.

## Q Does column pipes needs full casing in the bore?

These pipes give best service in bore wells which have full casing or bore wells which are free from loose bolders and stones. In such areas where loose bolders and stones are dominant then full casing or slightly larger bore should be made so that pump does not get stuck.

## Q There is variation in the thickness of pipes. Why?

The pipe thickness has been designed by taking the pump weight, water column weight and pump delivery pressure. The end of the pipes are made thicker so that even after making the threads and removal of material the same pipe thickness remains under the threads so that the strength of the pipe can be maintained equal in end and pipe.

## Q What happens if a bore collapse?

The pump and the pipes can be pulled out only in cases where the pump can be pulled out by applying a force within the ultimate breaking strength of pipe as mentioned in the table. Normally the strength is acceptable. In case of severe bore collapse and bolder problems even steel pipes cannot be retrievable from the bore.

# FAQs

## Q Is tripod required for lowering?

Yes, tripod is required specifically for use of column pipes in the installation of pump sets, considering the heavy load requirements. However it is important to note that handling of UPVC pipes is much simpler in comparison of steel pipes.

## Q How to tighten the pipes?

The pipe is tightened on the principle of screw system. Tighten the pipe with hand and rope so that the rubber seal fully enters into the coupling pipe. Total description of fitment is provided in company installation booklet.

## Q Any adhesives required during joining of pipes?

No solvent or adhesive required.

## Q Do we need extra rope to hold the pipes?

No rope is required. Pipe has adequate strength.

## Q Can we cut the pipes?

No, pipes cannot be cut for short length requirement.

## Q Can we re-thread the pipes?

Under normal use, re-threading of pipe will not be required. Special threads cannot be made at site.

## Q Can metal pipe join with UPVC pipe?

Metal pipe can be connected with the pipe UPVC pipe. Recommended to use only Ajay Deepline marked adaptors.



## AJAY DEEPLINE PAN INDIA DISTRIBUTION

State	Current Address
Delhi & NCR	20/05, Site - 4, Sahibabad Industrial Area, Sahibabad, Ghaziabad - 201010 Uttar Pradesh, Ph-011-29892259, E-mail: info@ajaypipes.com
Gujarat	C/o -Survey No-109 & 129, Grey Stone Buildcon LLP, Opposite Gokul Dham, Near Ford Service Centre, Shantipura- Sanand Highway, Ulariya Village, Ahmedabad-382210, Gujarat, Ph-9375761124 E-mail: gjdepot@ajaypipes.com
Karnataka	Survey No.-55/2, Hoodi Village, K.R. Puram, Hoodi Main Road, Bangalore-260048 Ph-7337833733, E-mail: kadepot@ajaypipes.com
Kerala	VIII 76-A, Mayamma Buildings, Bible College Junction, P.O. Varikkoly, Puthencruz, District Ernakulam, Kochi - 682308. Ph-9349983263, E-mail: kldepot@ajaypipes.com
Madhya Pradesh	323/13, Udyog Nagar, Behind Prarthna Tol Kanta, Palda, Nemawar Road, Indore-452001. Madhya Pradesh, Ph-9303017008, E-mail: mpdepot@ajaypipes.com
Maharashtra	G-21, Profit Centre, Opposite Panchsheel Heights, Mahavir Nagar, Kandivali (W). Mumbai-400067. Maharashtra, Ph-9320301942, E-mail: mhdepot@ajaypipes.com Gate No.764/767/768, Shirwal Bhor Road, Near Riter Company, Village-Wing, Taluka-Khandala District Satara - 412801, Maharashtra, Ph-9370520007, E-mail: mhdepot@ajaypipes.com SR.No.-4, H.No-842, Mangaldham Society, Sonaba Nagar, Khadgaon Road, Wadi, Nagpur-440023. Maharashtra, Ph-9130094509, E-mail, mhdepot@ajaypipes.com
Telangana	Plot No: 11A & 20A (D.No-2-24-90/11/20 NR), Road No.5, Sri Sai Colony, Lakshminarayana Nagar, Uppal, Hyderabad-500039. Telangana Ph-9394295888, E-mail: apdepot@ajaypipes.com
Uttrakhand	LME, G67-UPSIDC, Industrial Area, Selaqui, Dehradun-248011. Uttrakhand Ph-9555160106, E-mail: updepot@ajaypipes.com
West Bengal	Sankrail Industrial Park, Jala Dhulagori, PS. Sankrail, Howrah, Kolkata-711302. West Bengal, Ph-9378139554, 7797484448, 9333115592, E-mail: wbdepot@ajaypipes.com



### Ajay Industrial Corporation Limited (Since 1961)

Corporate Office : B-II/29, Mohan Co-operative Industrial Estate, Badarpur Boder, Delhi-110044, India  
Mob: 7065041093 | Toll Free: 1800 11 4050 | Email: info@ajaypipes.com | Website: www.ajaypipes.com