

# A NEW DIMENSION IN uPVC PIPES-FITTINGS



## PCL PLASTICS

PCL-COUNTRY WIDE A TRUSTED BRAND NAME SINCE 1985





PCL-Countrywide a trusted brand name since 1985







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## **BRIEF HISTORY OF THE COMPANY**

PCL Company founded in the year 1985. Since then it has established a country wide marketing network. Now PCL is a country wide well known trusted brand name for its wide range of products namely all types of Tube-well, Centrifugal Pump, Rice Haulers, Liner-Piston for Shallow and Deep Engine etc agro based machinery, spares, PVC Pipes and Filters.

## **uPVC PIPES – FITTINGS**

During 2009 PCL company commissioned imported auto uPVC PIPES – FILTERS - FITTINGS manufacturing plant with the machinery of latest technology. These machinery are capable of manufacturing all types of uPVC pipes complying the standard of BS 3505, ISO 4422, SS 213 and BDS 1496. The Standard & Quality of our uPVC Pipes have been tested by the BUET & RUET.

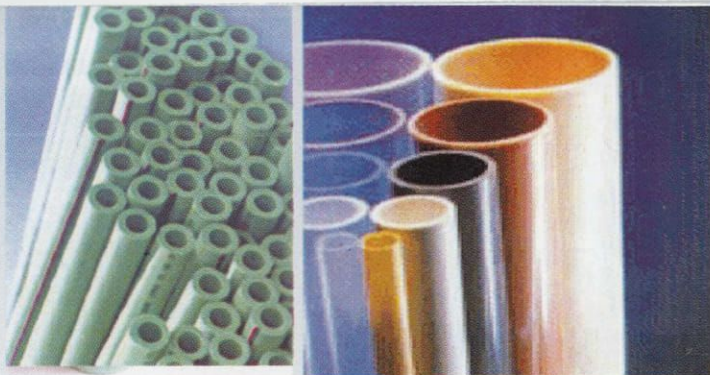
## **AREA OF APPLICATION**

Our latest most modern plastic manufacturing machinery are capable to satisfy the needs and demands of the consumers with a wide range of products. We can assure the benchmark for quality and standard suitable for industrial, commercial, agriculture and sanitary use. Our pipes are:

- \* Flexible to accommodate normal ground movement.
- \* Suitable for commercial, industrial, housing, irrigation and sanitary works.
- \* Easy to lay
- \* Suitable for Gas pipeline system
- \* Electric conduit system
- \* Water transportation pipelines
- \* Pipelines for pump sewerage, drainage, industrial and rural wastage







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## ADDITIONAL ADVANTAGE

Our uPVC Pipes are widely accepted because of its :

- \* Resistance to wide variety of chemicals and weather
- \* Acceptable light weight
- \* Free from bacterial and fungi attack
- \* Long lasting service life
- \* Multi store plumbing
- \* Non combustion

## RESEARCH & DEVELOPMENT

PCL is regularly studying the market demand and as per needs developing the quality and standard of the products. Highly experienced and trained professionals are constantly working for this purpose. Our objective is to satisfy and fulfil the demands of the consumers.

## SPECIAL ABILITY

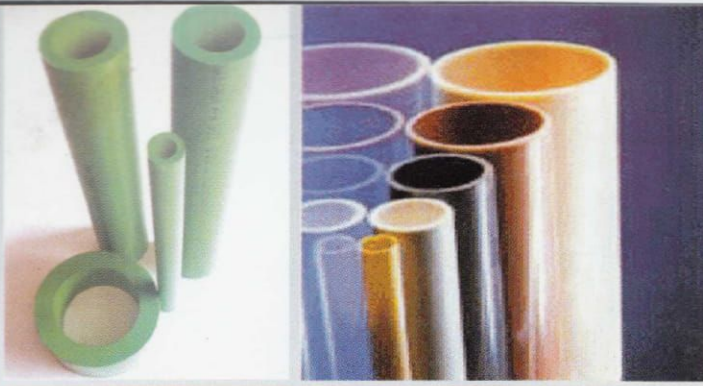
We have the specialized technical know how and experts to manufacture uPVC pipes of any size and thickness as per customers demand.

## PIPES & FITTINGS JOINING SYSTEM

For effective joining our uPVC pipes and fittings, we recommend the use of solvent cement, Polyvinyl chloride adhesive with high viscosity and quick drying type material. This process proved exceptionally strong water proof, durable and stable quality.







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For proper and neat long lasting joining cutting, measurement of pipe, socket and use of good quality solvent cement are very important. A little compromise in this case may not drive the expected result.

For solvent cement joining we recommend the following steps:

1. Cut the pipe squarely and remove all burrs
2. Both the portion of joining surface should be made free from water, grease and dirt.
3. Apply solvent cement with a dry and clean brush.
4. Apply the brush on the both surface to be joined.
5. Initially hold the joint for 30 seconds for bonding. Leave 2 hours to gain strength and test it after 24 hours. For guidance we recommend the following:

#### Solvent cement using standard

Normal Diameter		Quantity of solvent cement to apply (gm)
Inch	(mm)	
1/2	16	1.67
3/4	20	2.00
1	25	2.50
1 1/4	30	3.33
1 1/2	40	4.00
2	50	5.00
3	75	8.50
4	100	13.50
6	150	30.00
8	200	54.00
10	250	84.00
12	300	120.00







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## ISO 4422:1996 (E)

Nominal O.D. (mm)	PN 6.3	PN 8	PN 10	PN 12.5	PN 16
	Nominal Wall thickness (mm)				
32	....	....	1.6	1.9	2.4
40	1.5	1.6	1.9	2.4	3.0
50	1.6	2.0	2.4	3.0	3.7
63	2.0	2.5	3.0	3.8	4.7
75	2.3	2.9	3.6	4.5	5.6
110	2.7	3.4	4.2	5.3	6.6
140	3.5	4.3	5.4	6.7	8.3
160	4.0	4.9	6.2	7.7	9.5
200	4.9	6.2	7.7	9.6	11.9
225	5.5	6.9	8.6	10.8	13.4
250	6.2	7.7	9.6	11.9	14.8
315	7.7	9.7	12.1	15.0	18.7
355	8.7	10.9	13.6	16.9	21.1
400	9.8	12.3	15.3	19.1	23.7
450	11	13.8	17.2	21.5	26.7

## BS 3505 : 1968

Nominal Size	Outer dia (mm)		Class B (6 bar)		Class C (9 bar)		Class D (12 bar)		Class E (15 bar)		Class 7 (22-40 bar)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1/2	21.2	21.5	....	....	....	....	....	....	1.7	2.1	3.7	4.3
3/4	26.6	26.9	....	....	....	....	....	....	1.9	2.5	3.9	4.5
1	33.4	33.7	....	....	....	....	....	....	2.2	2.7	4.5	5.2
1 1/4	42.1	42.4	....	....	....	....	2.2	2.7	2.7	3.2	4.8	5.5
1 1/2	48.1	48.4	....	....	....	....	2.5	3.0	3.1	3.7	5.1	5.9
2	60.2	60.5	....	....	2.5	3.0	3.1	3.7	3.9	4.5	5.5	6.3
3	88.7	89.1	2.9	3.4	3.5	4.1	4.6	5.3	5.7	6.6	....	....
4	114.1	114.5	3.4	4.0	4.5	5.2	6.0	6.9	7.3	8.4	....	....
5	140.0	140.4	3.8	4.4	5.5	6.4	7.3	8.4	9.0	10.4	....	....
6	168.0	168.5	4.5	5.2	6.6	7.6	8.8	10.2	10.8	12.5	....	....
8	218.8	219.4	5.3	6.1	7.8	9.0	10.3	11.9	12.6	14.5	....	....
10	272.6	273.4	6.6	7.6	9.7	11.2	12.8	14.8	15.7	18.1	....	....
12	323.4	324.3	7.8	9.0	11.5	13.3	15.2	17.5	18.7	21.6	....	....
14	355.0	356.0	8.5	9.8	12.6	14.5	16.7	19.2	20.5	23.6	....	....
16	405.9	406.9	9.7	11.2	14.5	16.7	19.0	21.9	23.4	27.0	....	....
18	456.7	557.7	11.0	12.7	16.3	18.8	21.4	24.6	....	....	....	....



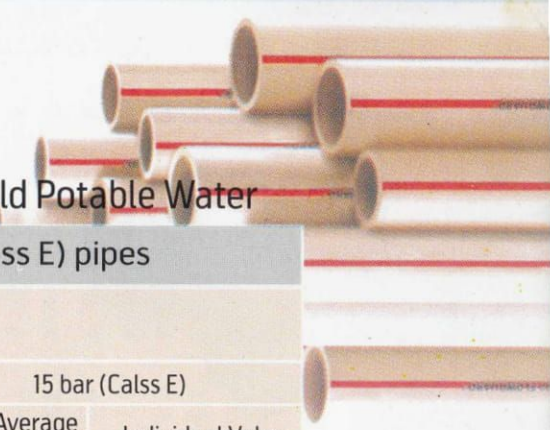
# Standard : BS 3505 : 1986

Specifications : British Standard Specification for uPVC Pressure pipe for Cold Potable Water

Table 1 : Pipe dimension for 9 bar (Class C), 12 bar (Class D) and 15 bar (Class E) pipes

Nominal Size	Mean outside Diameter		Individual outside Diameter		Wall Thickness								
	Min	Max	Min	Max	9 bar (Class C)			12 bar (Class D)			15 bar (Class E)		
					Average Value	Individual Value		Average Value	Individual Value		Average Value	Individual Value	
					Max	Min	Max	Max	Min	Max	Max	Min	Max
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
3/8	17.0	17.3	17.0	17.3	....	....	....	....	....	....	1.9	1.5	1.9
1/2	21.2	21.5	21.2	21.5	....	....	....	....	....	....	2.1	1.7	2.1
3/4	26.6	26.9	26.6	26.9	....	....	....	....	....	....	2.5	1.9	2.5
1	33.4	33.7	33.3	33.8	....	....	....	....	....	....	2.7	2.2	2.7
1 1/4	42.1	42.4	42.0	42.5	....	....	....	2.7	2.2	2.7	3.2	2.7	3.2
1 1/2	48.1	48.4	48.0	48.5	....	....	....	3.0	2.5	3.0	3.7	3.1	3.7
2	60.2	60.5	60.0	60.7	3.0	2.5	3.0	3.7	3.1	3.7	4.5	3.9	4.5
3	88.7	89.1	88.4	89.4	4.1	3.5	4.1	5.3	4.6	5.3	6.5	5.7	6.6
4	114.1	114.5	113.7	114.9	5.2	4.5	5.2	6.8	6.0	6.9	8.3	7.3	8.4
5	140.0	140.4	139.4	141.0	6.3	5.5	6.4	8.3	7.3	8.4	10.1	9.0	10.4
6	168.0	168.5	167.4	169.1	7.5	6.6	7.6	9.9	8.8	10.2	12.1	10.8	12.5
8	218.8	219.4	218.0	220.2	8.8	7.8	9.0	11.6	10.3	11.9	14.1	12.6	14.5
10	272.6	273.4	271.6	274.4	10.9	9.7	11.12	14.3	12.8	14.8	17.5	15.7	18.1
12	323.4	324.3	322.2	325.5	12.9	11.5	13.3	17.0	15.2	17.5	20.8	18.7	21.6
14	355.0	356.0	353.7	357.3	14.1	12.6	14.5	18.6	16.7	19.2	22.8	20.5	23.6
16	405.9	406.9	404.3	408.5	16.2	14.5	16.7	21.1	19.0	21.9	26.0	23.4	27.0
18	456.7	457.7	454.9	459.5	18.2	16.3	18.8	23.8	21.4	24.6	.....	.....	.....
20	507.5	508.5	505.4	510.6	20.2	18.1	20.9	.....	.....	.....	.....	.....	.....
24	609.1	610.1	606.5	612.7	24.1	21.7	25.0	.....	.....	.....	.....	.....	.....

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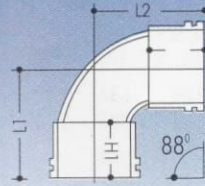




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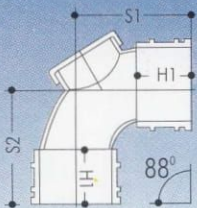
# PCL FITTINGS

## Plain Bend (F/F)



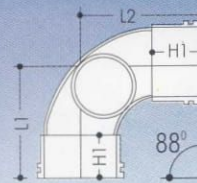
Product Code	Nominal Size mm (in)		
PCL9980PB	32(1 <sup>1</sup> / <sub>4</sub> ")		
PCL9982PB	40(1 <sup>1</sup> / <sub>2</sub> ")		
PCL9983PB	50(2")		
PCL9984PB	80(3")		
PCL9985PB	100(4")		
PCL9986PB	150(6")		
PCL9987PB	200(8")		
Dimension (mm)			
	H1	L1	L2
	26	50	53
	30	62	62
	32	74	74
	46	109	112
	52	120	121
	77	200	203
	102	232	236

## Door Bend (F/F & M/F) Long w/Big Access



Product Code	Nominal Size mm (in)		
PCL120DBLA	100(4")		
Dimension (mm)			
	H1	S1	S2
	52	158	150

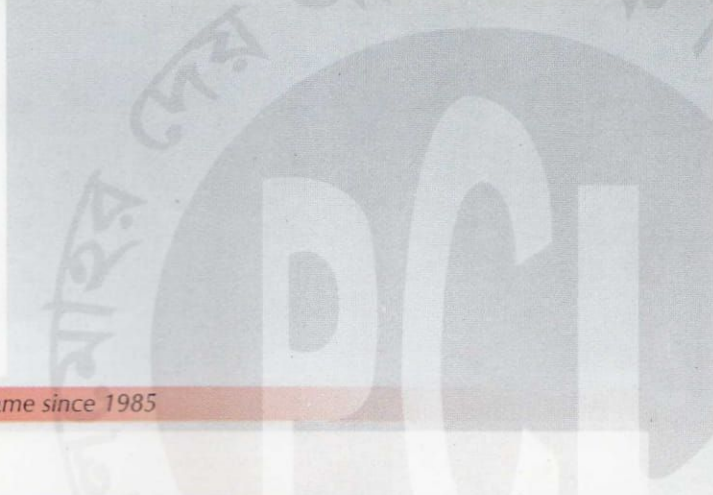
## Side Door Bend (F/F)



Product Code	Nominal Size mm (in)		
PCL075DB	100(4")		
PCL076DB	100(4")		
Dimension (mm)			
	H1	L1	L2
	52	120	121
	52	120	121

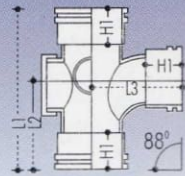






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### Door Tee (F/F) Big Access

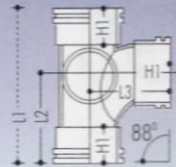


Product Code	Nominal Size mm (in)
PCL095DT	100(4")
PCL098DT	150(6")

Dimension (mm)			
H1	L1	L2	L3
52	239	134	120
77	380	223	210

### Side Door Tee (F/F)

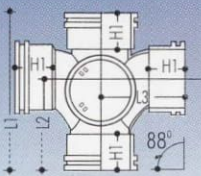


Product Code	Nominal Size mm (in)
PCL201SD	100(4")
PCL202SD	100(4")

Dimension (mm)			
H1	H2	L1	L2
52	239	239	120
52	239	239	120

### Cross Door Tee (FF) w/Big Access

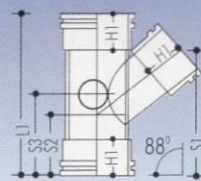


Product Code	Nominal Size mm (in)
PCL100CD	100(4")
PCL102CD	150(6")

Dimension (mm)			
H1	L1	L2	L3
52	239	134	114
77	380	223	210

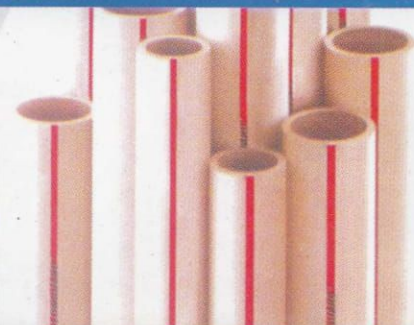
### 45° Plain Y Junction (M/F & F/F)



Product Code	Nominal Size mm (in)
PCL90PYJ	50(2")
PCL95PYJ	80(3")
PCL98PYJ	100(4")
PCL99PYJ	150(6")

Dimension (mm)				
H1	L1	S1	S2	S3
36	172	137	51	86
45	225	177	70	108
52	276	219	84	130
78	400	313	116	200







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## NORTHERN ENGINEERING WORKS ( A SISTER CONCERN OF PCL GROUP )

PCL Brand name is country wide very popular and trusted for her various domestic and agro based products namely – TUBE-WELL, CENTRIFUGAL PUMP, RICE HAULER (Husking Machine), LINER-PISTON for Shallow and Deep Engine etc. with spares.

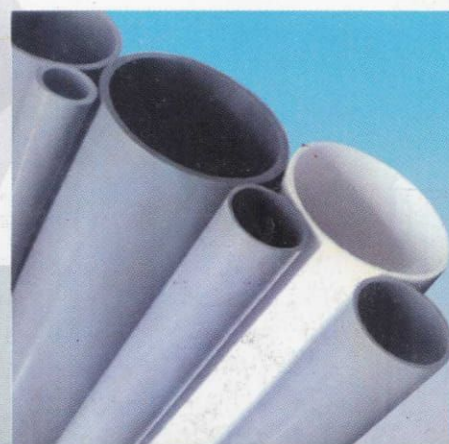
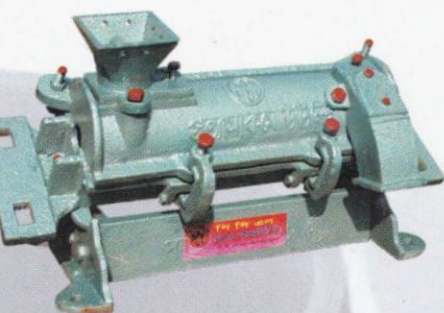
Northern Engineering works manufacturing all sizes and types of PCL Brand Tube-well, Pump, Rice Hauler, Liner-Piston for Shallow/Deep Engine and PCL marketing the same throughout the country with unbeaten reputation since 1985.

We have a Light Engineering Workshop and Foundry with expertise skills to manufacture all types of Foundry Products including Jute and Textile Mills spare parts as per demand of the customers.

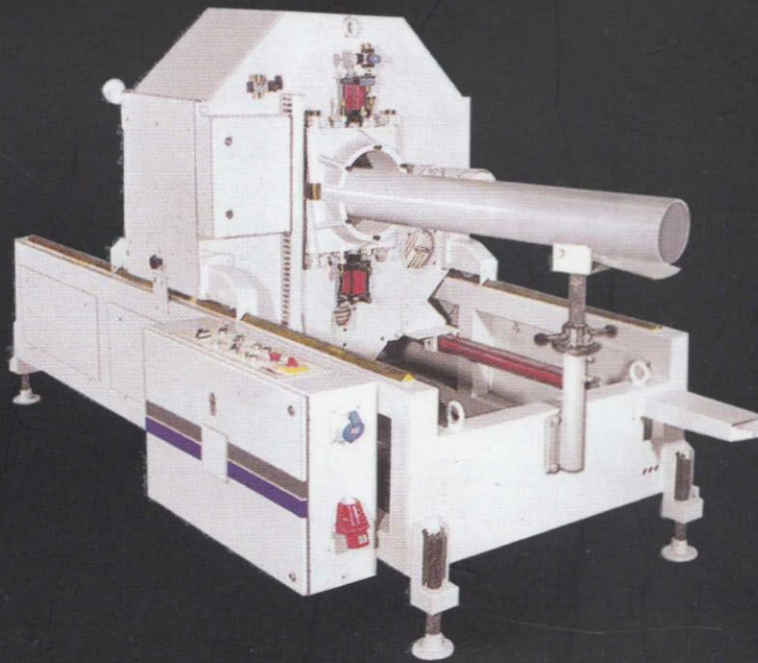
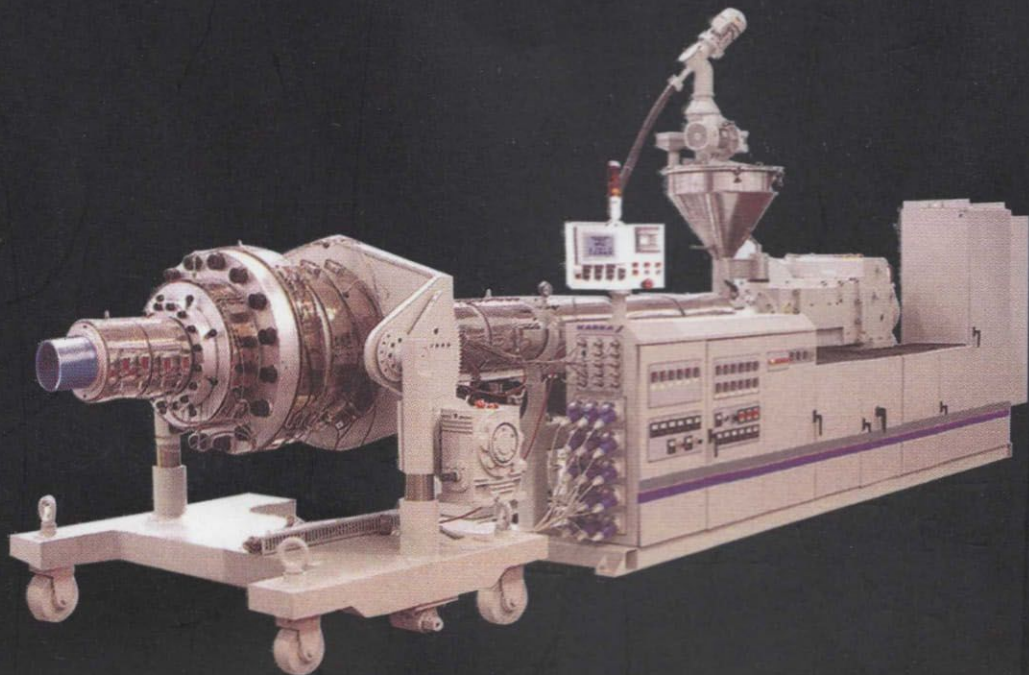
The most important characteristic of NEW:

No compromise with the QUALITY.

Our Product are well known for its quality, durability and availability.







# PCL PLASTICS

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