



Piyush Chheda Group

PRINCE

AN ISO 9001 COMPANY

AGRI SYSTEMS

PRINCE
AGRI PIPES, FITTINGS AND
BALL VALVE SYSTEMS

WIDEST RANGE OF ANY PIPING SYSTEM AVAILABLE UNDER ONE ROOF

System is Quality

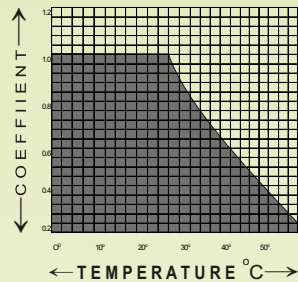
PRINCE Agri Pipes & Fittings Systems

Agricultural Pipes - are manufactured in accordance with IS:4985 covering a complete range from 20 mm to 315 mm. They are available in pressure ratings of 2.5, 4, 6 & 10 kgf/sw.cm as defined in IS: 4985. The pipes are provided with plain socket and suitable for solvent cement joining.

Their main application is in agriculture, for water supply, drip irrigation & sprinkler lines, etc. as well as for drinking water distribution. However, these can also be used in cable ducting, ventilation pipes lines, slurry lines, etc.

These are available in light grey colour with nominal length of 6 mtrs.

Mechanical	
Tensile Strength	: 415 - 525 kg/cm ²
Compression Strength	: 550 - 910 kg/cm ²
Flexural Strength	: 680 - 1100 kg/cm ²
Izod Impact Strength	: 4 - 5 kg-cm / cm ²
Shore Hardness	: D65-85
Thermal	
Coefficient of Linear Expansion	: 0.08 mm/M ³ C
Vicat softening Point	: > 78 ^o C
Max. Operating Temperature	: 60 ^o C
Physical	
Specific Gravity	: 1.40 - 1.45
Water Absorption	: < 4 mg/cm ³



Hazen - William's Flow Co-efficient Comparison

Pipe Material	PVC	A.C.	G.I.	C.I.
Flow Coefficient	150	130	110	100

Standards, Quality Control & Testing

The manufacturing and testing is done for

- 1) Pipes - In accordance with IS : 4985 - 2000
- 2) Threads - (a) 1/2" and 3/4" - 14 TPI (B) 1" AND ABOVE - 11 TPI

All the above pipes, except Non-pressure pipes are tested for potable water supplies in accordance with their relevant standards and as per the test methods given in IS : 12235.

The manufacturing and testing is done for

- 1) Fittings - In accordance with IS : 7834-1987: for ISI marked fittings.

DIMENSIONS (As per IS : 4985 - 2000)

(All dimensions are in mm)

Nominal Outside Diameter (Nominal Size)	Mean Outside Diameter		Outside Diameter at Any Point		Wall Thickness												Mean Socket Internal Diameter of Mid Point of Socket Length	
					Class 1 0.25 Mpa 2.5 Kg/cm ²		Class 2 0.40 Mpa 4.0 Kg/cm ²		Class 3 0.60 Mpa 6.0 Kg/cm ²		Class 4 0.80 Mpa 8.0 Kg/cm ²		Class 5 1.00 Mpa 10.0 Kg/cm ²		Class 6 1.25 Mpa 12.5 Kg/cm ²			
					Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max		
20	20.0	20.3	19.5	20.5	-	-	-	-	-	-	-	-	1.1	1.5	1.4	1.8	20.1	20.3
25	25.0	25.0	24.5	25.5	-	-	-	-	-	-	1.2	1.6	1.4	1.8	1.7	2.1	25.1	25.3
32	32.0	32.3	31.5	32.5	-	-	-	-	-	-	1.5	1.9	1.8	2.2	2.2	2.7	32.1	32.3
40	40.0	40.3	39.5	40.5	-	-	-	-	1.4	1.8	1.8	2.2	2.2	2.7	2.8	3.3	40.1	40.3
50	50.0	50.3	49.4	50.6	-	-	-	-	1.7	2.1	2.3	2.8	2.8	3.3	3.4	4.0	50.1	50.3
63	63.0	63.3	62.2	63.8	-	-	1.5	1.9	2.2	2.7	2.8	3.3	3.5	4.1	4.3	5.0	63.1	63.3
75	75.0	75.3	74.1	75.9	-	-	1.8	2.2	2.6	3.1	3.4	4.0	4.2	4.9	5.1	5.9	75.1	75.3
90	90.0	90.3	88.9	91.1	1.3	1.7	2.1	2.6	3.1	3.7	4.0	4.6	5.0	5.7	6.1	7.1	90.1	90.3
110	110.0	110.4	108.6	111.4	1.6	2.0	2.5	3.0	3.7	4.3	4.9	5.6	6.1	7.1	7.5	8.7	110.1	110.4
125	125.0	125.4	123.5	126.5	1.8	2.2	2.9	3.4	4.3	5.0	5.6	6.4	6.9	8.0	8.5	9.8	125.1	125.4
140	140.0	140.5	138.3	141.7	2.0	2.4	3.2	3.8	4.8	5.5	6.3	7.3	7.7	8.9	9.5	11.0	140.2	140.5
160	160.0	160.5	158.0	162.0	2.3	2.8	3.7	4.3	5.4	6.2	7.2	8.3	8.8	10.2	10.9	12.6	160.2	160.5
180	180.0	180.6	177.8	182.2	2.6	3.1	4.2	4.9	6.1	7.1	8.0	9.2	9.9	11.4	12.2	14.1	180.2	180.5
200	200.0	200.6	197.6	202.4	2.9	3.4	4.6	5.3	6.8	7.9	8.9	10.3	11.0	12.7	13.6	15.7	200.3	200.6
225	225.0	225.7	222.3	227.7	3.3	3.9	5.2	6.0	7.6	8.8	10.0	11.5	12.4	14.3	15.3	17.6	225.3	225.7
250	250.0	250.8	247.0	253.0	3.6	4.2	5.7	6.5	8.5	9.8	11.2	12.9	13.8	15.9	17.0	19.6	250.4	250.8
280	280.0	280.9	276.6	283.4	4.1	4.8	6.4	7.4	9.5	11.0	12.5	14.4	15.4	17.8	19.0	21.9	280.4	280.9
315	315.0	316.0	311.2	318.8	4.6	5.3	7.2	8.3	10.7	12.4	14.0	16.1	17.3	19.9	21.4	24.7	315.4	316.0

- Any specification can change without prior notice.

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