



Jain PVC Pipes & Fittings

Introduction

Presently, JISL is the largest producer in Asia of plastic piping systems for all conceivable applications with pipes ranging from as small as 3 mm to 1600 mm in diameter and in pressure ratings ranging from 1.00 kgf/cm² to 25 kgf/cm². JISL has a production capacity of over 5,00,000 tonne per annum or 8000 km/day. The Piping Division includes PE, PVC Pipes and Fittings catering to the urban and rural infrastructure needs of the country apart from irrigation needs of the farmers. JISL is the only manufacturer to own DSIR approved R&D setup with state-of-the-art facilities. The pipes are manufactured conforming to IS, DIN, ISO, ASTM, TEC and other customised specifications.

Process

PVC Resin is mixed with other required chemical additives to form a ready-mix for Extrusion into Pipes. The compound gets plasticized inside the extruder barrel and pushed forward by the screw. The die and mandrel shape the molten mass and the calibrator fixes the size. The extruded pipe, cooled and hardened through cooling tanks and is pulled by the haul-off continuously. The cutter cuts off pipes in required lengths.

Fittings Process

PVC resin mixed with required chemical additives is fed into the hopper of injection moulding machine and gets plasticized as it passes through the barrel. The molten plastic is then injected into the mould cavity in measure quantity. After cooling, the component is ejected and the next cycle starts.

ISO 9001, ISO 14001 & OHSAS 18001 Certified Company by TUV NORD, Germany.

We undertake Turn-key Projects - Concept to Commissioning.

PVC Pipes Range

Type & Joints	Diameter	Standard
Pressure Pipes-SW/TH/RR	20 to 630 mm	IS:4985, SI:532, ISO:1452, DIN:8062/8061 ASTM D:1785, 2241
Conduit- SW	16 to 63 mm	IS:9537
Fabricated PVC Fittings	up to 630 mm	IS:10124 ISO:1452
Moulded PVC Fitting	20 to 200 mm	IS:7834, IS:14735
Cable Duct- SW	50 to 110 mm	IS:14787

PVC Pipes

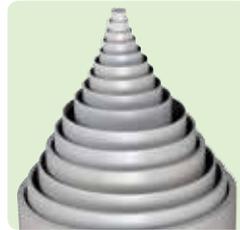
Smooth Wall Closed Conduit



Features & Benefits

Smooth Inner Wall

Smooth inner wall minimizes frictional losses and due to precipitation



Various Sizes Available

Available in sizes from 20 mm (3/4") to 630 mm (24") as per the standards

Plain or Socket Option Available

Commonly supplied with plain ends or socketed at one end for solvent cement weld joint

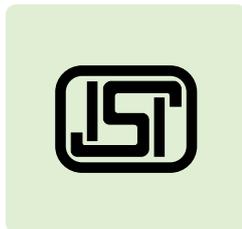


Close Dimensional Tolerances

Excellent characteristics of PVC provided durable pipe with close dimensional tolerances

Available in Various Pressure Rating and Standards

Pressure - 2.5 to 16 kg/cm²,
Standards - ISO 1452, IS 4985,
DIN 8061/62, IS 12231, IS 9537,
IS 14787, AS/NZS 1477, SI 532,
ISO 1452-2, PNS 65



Advance Manufacturing Technology

Advance manufacturing technology and our experience bring the quality products in the market

PVC Pipes

Additional Features

- Manufactured from high quality uPVC compound.
- Excellent corrosion and chemical resistance to most acidic and alkaline solutions.
- Light weight.
- Easy to handle and transport.
- Excellent flow characteristics.

Applications

- Potable water supply system
- Lift & Gravity irrigation system
- Drip/Sprinkler Irrigation System
- Rain water harvesting
- Industrial process Lines
- Chemical conveyance system
- Cooling Tower & Hydro Power Station
- Tube -Well Construction
- Soil, Waste & Rain water system
- Agruculture irrigation distribution system
- Effluent treatment & conveyance pipeline system
- Centrifugal pump suction & delivery pipes.

Physical and Mechanical Charastics of UPVC Pipe as per IS 4985 :2000

Parameter	Units	Guaranteed Value
Dimensions	mm	As per Table 1, 2, 3, 4 & 5 of IS 4985 : 2000
Pipe colour		Light Gray or as per customer requirement
Opacity	%	Max. 0.2
Reversion Test	%	Max. \pm 5
Vicat Softening Temperature	$^{\circ}$ C	Min 80
Density	g/cc	1.40 to 1.46
Sulphated Ash Content	%	Max 11
Resistance to External Blows	TIR	Max. 10%
Hydrostatic Characteristics	Kgf/cm ²	As per Clause No. 11 of IS 4985 : 2000
Effect on Water	ppm	As per Clause No. 10.3 of IS 4985 : 2000

Dimension as per ISO:1452.2

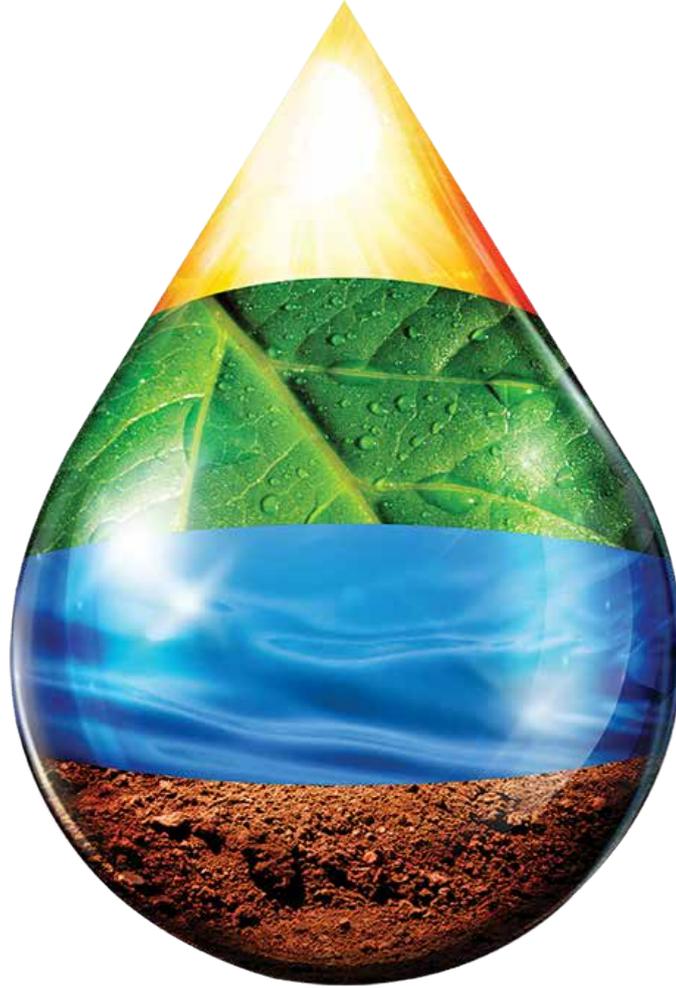
Nominal Outside Dia	Minimum Wall Thickness in mm						
	Pressure Rating in kg/cm ²						
mm	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25
20	-	-	-	-	1.5	1.9	-
25	-	-	-	1.5	1.9	2.3	-
32	-	1.5	1.6	1.9	2.4	2.9	-
40	1.5	1.6	1.9	2.4	3.0	3.7	-
50	1.6	2.0	2.4	3.0	3.7	4.6	-
63	2.0	2.5	3.0	3.8	4.7	5.8	-
75	2.3	2.9	3.6	4.5	5.6	6.8	-
90	2.8	3.5	4.3	5.4	6.7	8.2	-
110	2.7	3.4	4.2	5.3	6.6	8.1	10.0
125	3.1	3.9	4.8	6.0	7.4	9.2	11.4
140	3.5	4.3	5.4	6.7	8.3	10.3	12.7
160	4.0	4.9	6.2	7.7	9.5	11.8	14.6
180	4.4	5.5	6.9	8.6	10.7	13.3	16.4
200	4.9	6.2	7.7	9.6	11.9	14.7	18.2
225	5.5	6.9	8.6	10.8	13.4	16.6	-
250	6.2	7.7	9.6	11.9	14.8	18.4	-
280	6.9	8.6	10.7	13.4	16.6	20.6	-
315	7.7	9.7	12.1	15.0	18.7	23.2	-
355	8.7	10.9	13.6	16.9	21.1	26.1	-
400	9.8	12.3	15.3	19.1	23.7	29.4	-
450	11.0	13.8	17.2	21.5	26.7	33.1	-
500	12.3	15.3	19.1	23.9	29.7	36.8	-
560	13.7	17.2	21.4	26.7	-	-	-
630	15.4	19.3	24.1	30.0	-	-	-

^a Design coefficient C is 2.5 for 20 mm to 90 mm nominal diameter pipes and 2.0 for 110 mm to 630 mm diameter pipes

Dimension as per IS:4985

Nominal Outside Dia	Minimum Wall Thickness in mm					
	Pressure Rating in kg/cm ²					
mm	2.5	4.0	6.0	8.0	10.0	12.5
20	-	-	-	-	1.1	1.4
25	-	-	-	1.2	1.4	1.7
32	-	-	-	1.5	1.8	2.2
40	-	-	1.4	1.8	2.2	2.8
50	-	-	1.7	2.3	2.8	3.4
63	-	1.5	2.2	2.8	3.5	4.3
75	-	1.8	2.6	3.4	4.2	5.1
90	1.3	2.1	3.1	4.0	5.0	6.1
110	1.6	2.5	3.7	4.9	6.1	7.5
125	1.8	2.9	4.3	5.6	6.9	8.5
140	2.0	3.2	4.8	6.3	7.7	9.5
160	2.3	3.7	5.4	7.2	8.8	10.9
180	2.6	4.2	6.1	8.0	9.9	12.2
200	2.9	4.6	6.8	8.9	11.0	13.6
225	3.3	5.2	7.6	10.0	12.4	15.3
250	3.6	5.7	8.5	11.2	13.8	17.0
280	4.1	6.4	9.5	12.5	15.4	19.0
315	4.6	7.2	10.7	14.0	17.3	21.4
355	5.1	8.1	12.0	15.8	19.6	24.1
400	5.8	9.1	13.5	17.8	22.0	27.2
450	6.5	10.3	15.2	20.0	24.8	30.5
500	7.2	11.4	16.9	22.3	27.5	33.9
560	8.1	12.8	18.9	24.9	30.8	38.0
630	9.1	14.4	21.3	28.0	34.7	42.7

More Crop Per Drop®



**We revere these elements of our universe.
They reflect our ethos.**

Yellow, Green, Blue and Brown are colours of Nature and have been embodied in our logo. They encapsulate the conviction of the Founder and the lasting commitment of the Corporation to agriculture. Jain Irrigation is striving to add value to the entire agri-chain. At the same time, they produce and process a complete range of agri-products for the exacting world markets and growing domestic clientele.

The Corporation is poised to grow and attain water, food and energy security.



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