

uPVC Reclaim Water Piping System

Jain
Plumbing[™]

Install Peace of Mind !

WITH OVER 40 YEARS OF EXPERIENCE INDIA'S LEADING PLASTIC PROCESSOR;
BRINGS TO YOU
uPVC RECLAIM WATER PIPES & FITTINGS SYSTEM FOR TREATED WATER SUPPLY

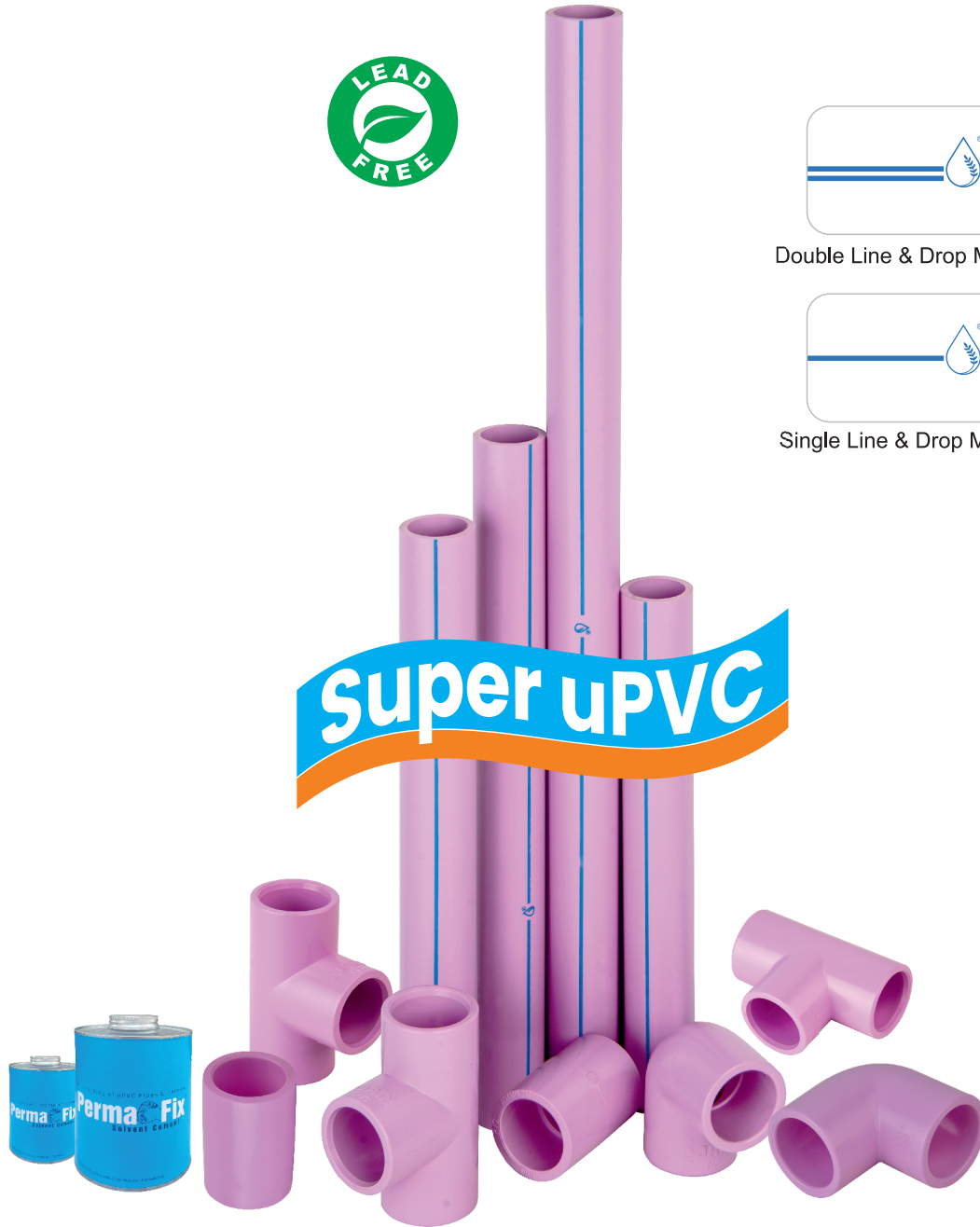


Double Line & Drop Marking for Sch 80



Single Line & Drop Marking for Sch 40

super uPVC



 **JAIN**[®]
Jain Irrigation Systems Ltd.
Small Ideas. Big Revolutions.®

India's Leading Piping Solution Provider

ASTM D 1785

For SCH 40, 80 & 120 Pipes

ASTM D 2467

For SCH 80 Fittings

Jain Irrigation Systems Limited (JISL), has an unmatched and enviable performance track record as a **Total Solution Provider** for various thermoplastics piping systems such as for Agriculture, Water, Gas, Telecom, Utility, Sewerage, Chemicals, Industrial Effluents, Mining, Slurry, Coal ash, SWR, Sub soil drainage, Ground water tapping, Lift irrigation, Micro irrigation & sprinkler irrigation, Hand pumps, House service Connections etc.

Jain Irrigation Systems Ltd is a diversified entity with turnover in excess of \$ 1.2 Billion. We have a global presence with 33 manufacturing bases spread over four continents. Our products are supplied to 126+ countries with able assistance from 11,000+ dealers and distributors worldwide. With over 5 decades of efforts and presence in the marketplace we have reached over 8.5 million farmers.

JISL from its noble range brings to you **JAIN UPVC Reclaim Water Pipes and Fittings system** for all your treated water and high-pressure non-potable water plumbing requirements. JAIN Reclaim Water Pipes and Fittings are produced with a lead-free compound that fulfill all the latest necessities of plumbing networks. The reclaim water piping system is ideal for residential, commercial and industrial treated water applications. These pipes can be used to convey non-potable reclaim treated water which is generated from gray water fixtures and appliances like washbasin, sinks, shower drains, bathtubs, washing machine etc.

Applications

- Reclaim Water Piping Network • Residential & Commercial Flushing Water supply • Treated Water Piping Network for Gardening
- Industrial process Water Piping

Product Range

- **Pipes:** 15 NB (½") to 100 NB (4") • **Fittings:** 15 NB (½") to 100 NB (4")

uPVC ASTM Pipe Properties

Sr. No	Property	Standard	Required Value	Unit
1	uPVC Compound Cell Classification	ASTM D 1784	12454	
2	Specific Gravity	ASTM D 792	1.40 – 1.46	
3	Thermal Conductivity (K)	ASTM C177	0.16	W/(m·K)
4	Sustained Pressure Test	ASTM D 1598	No Failure Should occur	
5	Hydrostatic Design Stress at 73.4°F	ASTM D 2837	2000	PSI
6	Heat Distortion Temp. At 264 PSI	ASTM D 648	158	°F
7	Tensile Strength Yield at 23 ± 2°	ASTM D 638	7000	PSI
8	Modulus of elasticity in tension	ASTM D 638	400000	PSI
9	Izod Impact Strength	ASTM D 256	> 0.65	Ft.lb/in. of notch
10	Burning Rate	ASTM D635	Self-Extinguishing	
11	Flammability Rating	UL 94	94 V-0	
12	Coefficient Of Thermal Expansion	ASTM D 696	5.0 X 10-5	mm/mm°C
13	Resistance to Acetone (Extrusion Quality Test)	ASTM D 2152	Shall not flake or disintegrate	
14	Flattening test	ASTM D 1785	Shall not split, crack or break.	
15	Hazen Williams Coefficient		150	
16	VST	IS 12235 (Part 2)	78 - 80	°C
17	Impact Strength	IS 12235 (Part 9)	Maximum 10%	TIR
18	Transmission Of Visible Light	IS 12235 (Part 3)	< 0.2%	
19	Longitudinal Reversion	IS12235 (Part 5)	+/- 5.0 %	
20	Resistance to Dichloromethane	IS 12235 (Part 11)	Shall not attack	

ASTM pipe wall thickness chart

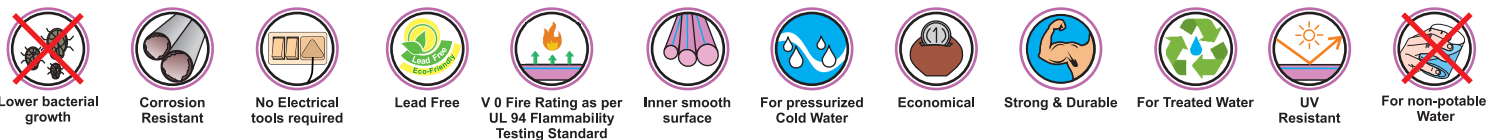
Sr. No	Nominal Pipe Size (Inch)	Pipe Outside Diameter (avg) (MM)	Pipe Minimum Wall Thickness (MM)		
			Sch 40	Sch80	Sch 120
1	½"	21.34	2.77	3.73	4.32
2	¾"	26.67	2.87	3.91	4.32
3	1"	33.4	3.38	4.55	5.08
4	1 ¼"	42.16	3.56	4.85	5.46
5	1 ½"	48.26	3.68	5.08	5.72
6	2"	60.32	3.91	5.54	6.35
7	2½"	73.02	5.16	7.01	7.62
8	3"	88.90	5.49	7.62	8.89
9	4"	114.30	6.02	8.56	11.10

Water pressure rating for ASTM plain pipes at 23°C (ASTM D 1785)

Size Inch	Pressure Rating					
	Sch 40		Sch 80		Sch 120	
	PSI	Kg/cm ²	PSI	Kg/cm ²	PSI	Kg/cm ²
1/2"	600	42.02	850	59.52	1010	70.73
3/4"	480	33.61	690	48.32	770	53.92
1"	450	31.51	630	44.12	720	50.42
1 1/4"	370	25.91	520	36.41	600	42.02
1 1/2"	330	23.11	470	32.91	540	37.82
2"	280	19.61	400	28.01	470	32.91
2 1/2"	300	21.01	420	29.41	470	32.91
3"	260	18.21	370	25.91	440	30.81
4"	220	15.41	320	22.41	430	30.11

Note : Fittings are available in schedule 80.

Salient Features -



Always use **Jain's Perma-Fix - UPVC Solvent Cement** for better Bonding Performance. Available in 50ml, 100ml, 250ml, 500 ml and 1 Lt



fb.com/JainIrrigationSystems

