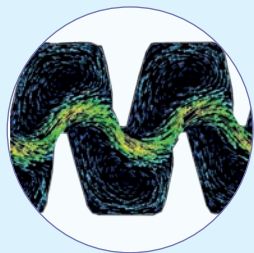


Jain Turbo Top® Thin Wall PC & PCAS



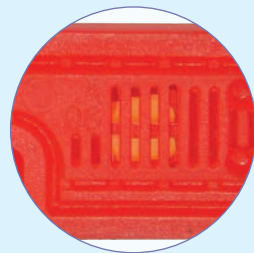
Integral, Flat, Pressure Compensating Drip tape

Available with two options,
 - Basic Pressure Compensating (PC), Orange,
 - Pressure Compensating Anti-Siphon (PCAS), Blue



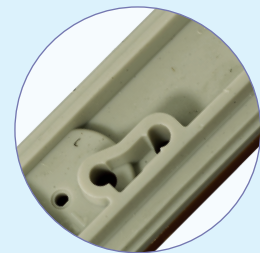
Innovative Cascade Labyrinth

Cascade labyrinth gives strong, self cleaning design ensures continuous flushing of sediments and small dirt particles.



Three Dimensional Inlet Filter

Multiple channel 3-D water inlet for operation under heavy dirt load.



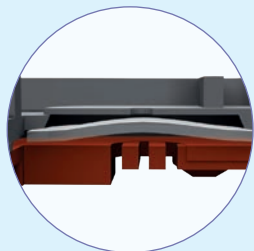
Protection from Root Intrusion and Sand Suction

Deep weir outlet structure prevents root intrusion and sand suction.



Precision Pressure Compensation

Injection moulded silicone diaphragm ensures precision in pressure compensation helps to maintain nominal discharge uniformity.



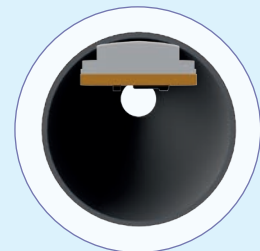
Dynamic Self Cleaning Mechanism

Dynamic movement of diaphragm flushes of debris.



Raised Water Inlet

Raised water inlet takes the water from high velocity and dirt free region of the tubing.



Energy Efficient Dripline

Streamlined and shallow depth of emitter causes low pressure loss as compared to other similar products in the industry.

Jain Turbo Top® - Thin Wall PC & PCAS

Additional Features

Manufactured from Special Grade Virgin Plastic Material
Makes the tubing durable and gives best environmental stress crack resistance (ESCR).

Manufactured with Most Modern, State-Of-the-Art Equipment.

It's computerised continuous online quality control monitors emitter spacing and precision in outlet drilling. Thus ensures reliable quality and consistent performance.

Marked with Two Parallel White Stripes 'Twin-Line'®,
Symbol of quality. It also helps to ensure upright positioning of the dripper.

Excellent CV_m, manufacturer's coefficient of variation
Maintains close dimensional tolerances to ensure best field emission uniformity.

Applications

- All purpose versatile product. Suitable for undulating and hilly terrain.
- Recommended for Greenhouse applications.
- Open field application to maintain high field application efficiency.
- PCAS is recommended for subsurface application to prevent soil suction.
- Irrigation of large fields & long rows.
- Low operating pressure/ Gravity feed irrigation system.

Specifications

- **Nominal Discharges** : Available in 1.1, 1.6, 2.0 & 2.2 lph
- **Emitter Spacing**: Standard emitter spacing of 15, 20, 30, 40, 50, 60, 75, 90, 100, 120 and 150 cm. Any other emitter spacing and group spacing can be supplied on demand.
- **Sizes** : 12, 16, 17, 22 and 25mm nominal diameter as per Metric Standard.
1/2", 5/8", 7/8", 9/8", 1-3/8" nominal diameter as per US standard.
- **Wall Thickness** : 15, 18, 20, 24 mil (0.38, 0.45, 0.50, 0.6 mm) Any other wall thickness can be supplied on demand.
- **Pressure Compensating Range** : 0.4 to 3.0 kg/cm² (5.7 to 42.6 psi)
- **Emitter Exponent** : 0

Operating Specifications

- Specially designed emitting pipe fittings are available.
- Filtration recommendation 100 micron or less. Actual quality of filtration can be decided by quality of source water. Please refer to our "Maintenance Manual" for more details.
- Always keep the dripper in upright position for better clog resistance.



Jain Turbo Top® - Thin Wall PC & PCAS

Technical Specifications for Emitter - Metric

Nominal Discharge (lph)	Emitter exponent	Flow coefficient	Coeff. of mfg. variation	Flow path dimensions (mm)			Inlet filter area (mm ²)
	x	k	CVm	Length	Width	Depth	
1.1	0	1.0	1.5	20.8	0.56	0.60	1.94
1.6	0	1.6	1.5	20.8	0.66	0.80	1.94
2.0	0	2.0	2.0	20.8	0.68	0.82	1.94
2.2	0	2.2	2.0	20.8	0.72	0.85	1.94

Flow equation $q = kH^x$, q = Nominal Discharge, lph, H = Pressure head, kg/cm², x = Emitter exponent

Technical Specifications for Emitter - US

Nominal Discharge (gph)	Emitter exponent	Flow coefficient	Coeff. of mfg. variation	Flow path dimensions (inch)			Inlet filter area (inch ²)
	x	k	CVm	Length	Width	Depth	
0.26	0	0.264	1.5	0.82	0.22	0.024	0.003
0.42	0	0.423	1.5	0.82	0.26	0.032	0.003
0.53	0	0.528	2.0	0.82	0.27	0.32	0.003
0.58	0	0.581	2.0	0.82	0.28	0.33	0.003

Flow equation $q = kH^x$, q = Nominal Discharge, gph, H = Pressure head, psi, x = Emitter exponent

Technical Specifications - Tubing- Metric

Nominal dia	Wall thickness		Inside dia.	Outside dia.	Maximum operating pressure	Maximum Flushing Pressure
	(mm)	(mil)				
Jain Turbo Top™ - Thin Wall 12 mm Nominal Diameter						
12	13	0.32	11.8	12.4	2.2	3.3
12	15	0.38	11.8	12.6	2.7	4.1
12	18	0.45	11.8	12.7	3.3	5.0
12	20	0.50	11.8	12.8	3.6	5.4
12	24	0.60	11.8	13.0	4.5	6.8
Jain Turbo Top™ - Thin Wall 16 mm Nominal Diameter						
16	13	0.32	15.9	16.5	1.6	2.4
16	15	0.38	15.9	16.7	2	3.0
16	18	0.45	15.9	16.8	2.4	3.6
16	20	0.50	15.9	16.9	2.7	4.1
16	24	0.60	15.9	17.2	3.4	5.1
Jain Turbo Top™ - Thin Wall 17 mm Nominal Diameter						
17	13	0.32	16.1	16.7	1.6	2.4
17	15	0.38	16.1	16.9	2	3.0
17	18	0.45	16.1	17.0	2.4	3.6
17	20	0.50	16.1	17.1	2.7	4.1
17	24	0.60	16.1	17.4	3.4	5.1
Jain Turbo Top™ - Thin Wall 19 mm Nominal Diameter						
22	13	0.32	22.2	22.80	1.2	1.8
22	15	0.38	22.2	22.96	1.5	2.3
22	18	0.45	22.2	23.10	1.8	2.7
22	20	0.50	22.2	23.20	2.0	3.0
22	24	0.60	22.2	23.40	2.4	3.6
Jain Turbo Top™ - Thin Wall 25 mm Nominal Diameter						
25	13	0.32	25	25.6	1.1	1.7
25	15	0.38	25	25.8	1.3	2.0
25	18	0.45	25	25.9	1.6	2.4
25	20	0.50	25	26.0	1.8	2.7
25	24	0.60	25	26.3	2.2	3.3

Technical Specifications - Tubing- US

Nominal dia.	Wall thickness		Inside dia.	Outside dia.	Maximum operating pressure	Maximum Flushing Pressure
	(inch)	(mil)				
Jain Turbo Top™ - Thin Wall 1/2" Nominal Diameter						
1/2	13	0.32	0.464	0.490	31	47
1/2	15	0.38	0.464	0.494	38	58
1/2	18	0.45	0.464	0.500	47	71
1/2	20	0.50	0.464	0.504	51	77
1/2	24	0.60	0.464	0.512	64	97
Jain Turbo Top™ - Thin Wall 5/8" Nominal Diameter						
5/8	13	0.32	0.625	0.649	22	34
5/8	15	0.38	0.625	0.655	28	43
5/8	18	0.45	0.625	0.661	34	51
5/8	20	0.50	0.625	0.665	38	58
5/8	24	0.60	0.625	0.675	48	73
Jain Turbo Top™ - Thin Wall 7/8" Nominal Diameter						
7/8	13	0.32	0.875	0.899	17	26
7/8	15	0.38	0.875	0.905	21	32
7/8	18	0.45	0.875	0.911	25	38
7/8	20	0.50	0.875	0.915	28	43
7/8	24	0.60	0.875	0.925	34	51
Jain Turbo Top™ - Thin Wall 9/8" Nominal Diameter						
9/8	13	0.32	1.125	1.725	13	20
9/8	15	0.38	1.125	1.9	16	24
9/8	18	0.45	1.125	2.0	20	29
9/8	20	0.50	1.125	2.1	22	33
9/8	24	0.60	1.125	2.4	27	41
Jain Turbo Top™ - Thin Wall 1-3/8" Nominal Diameter						
1-3/8	13	0.32	1.375	1.975	10	15
1-3/8	15	0.38	1.375	2.1	12	19
1-3/8	18	0.45	1.375	2.3	15	23
1-3/8	20	0.50	1.375	2.4	17	26
1-3/8	24	0.60	1.375	2.6	21	32

Note: 1 mil = 1/1000th part of an inch = 0.0254 mm.

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Coil lengths

Emitter spacing		Nominal Diameter of 16 mm, 17 mm and 5/8"															
		6 mil		8 mil		10 mil		12 mil		15 mil		18 mil		20 mil		24 mil	
(cm)	(inch)	(m)	(ft.)	(m)	(ft.)	(m)	(ft.)	(m)	(ft.)	(m)	(ft.)	(m)	(ft.)	(m)	(ft.)	(m)	(ft.)
15	6	2100	6888	2100	6888	2000	6560	1700	5576	1200	3936	1000	3280	900	2952	500	1640
20	8	2300	7544	2300	7544	2100	6888	1800	5904	1400	4592	1050	3444	950	3116	550	1804
25	10	2400	7872	2400	7872	2150	7052	1850	6068	1450	4756	1100	3608	1000	3280	600	1968
30+	12+	2700	8856	2500	8200	2250	7380	1900	6232	1200	3926	1150	3772	1000	3280	600	1968
		Nominal Diameter of 7/8"															
15	6	1300	4264	1100	3608	800	2624	900	2552	750	2460	650	2132	600	1968	350	1148
20	8	1500	4920	1300	4264	1000	3280	1000	3280	800	2624	700	2296	650	2132	350	1148
25	10	1600	5248	1400	4592	1100	3608	1050	3444	850	2788	750	2460	700	2296	400	1312
30+	12+	1800	5904	1500	4920	1200	3936	1150	3772	900	2952	800	2624	700	2296	450	1476

Note: 1 mil = 1/1000th part of an inch = 0.0254 mm

* Coil lengths are for coil size 560 x 280 mm (22" x 11"). Other coil sizes such as 350x160 mm (13.8" x 6.3") and 560x160 mm (22" x 6.3") are also available. Please contact for coil lengths of Jain Turbo Top 12, 18, 19, 22, 25 mm and 1/2", 9/8", 1-3/8".

Ordering Specifications

TT	XX	XX	XXX	X	XXXX	P	XX
	Inside diameter in mm x 10	Nominal Discharge in lph x 10	Dripper Spacing in cm	Wall Thickness in mil	Standard Coil Length in meter	P - Pressure compensating	AS - Anti Siphon

Example: TT11811030240500PAS - This code refers to Jain Turbo Top Thin Wall PCAS option of 12mm nominal diameter having nominal discharge of 1.1 lph, emitter spaced at 30 cm, wall thickness of 24 mil and standard coil length of 500 m.

Note

- Jain Turbo Top can be supplied in any other wall thickness and pressure ratings.

