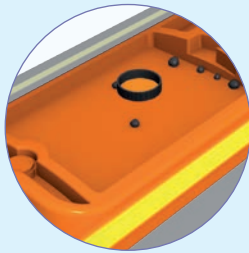


Jain Turbo Slim® - TE



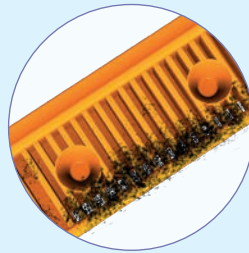
Innovative Cascade Labyrinth

Hydrodynamically designed tooth structure helps to create double flow regime and turbulent cyclone in the dripper. This helps in continuous flushing of particles.



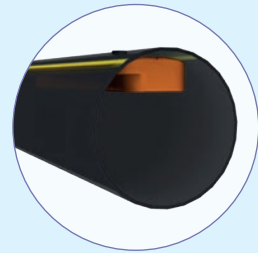
Prevention of sand suction

Weir structure to prevent entry of sand particles in flow path



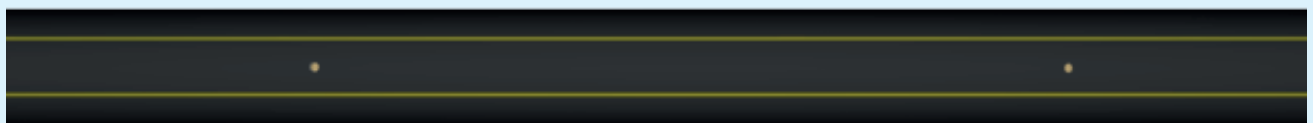
Three Dimensional Inlet Filter

Unique 3-D filtration surface (having length, width and depth) enable clog free operation even under high clog risk conditions.



Light Weight and Compact

Light weight and compact dripper welds perfectly to thin wall thickness of the tubing without leaving stress marks.



Jain Turbo Slim® - TE

Additional Features

Manufactured from special grade virgin plastic material

Makes the tubing durable and gives best environmental stress crack resistance (ESCR). Manufactured with UV stabilized material to withstand environmental stress.

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.

Excellent CV_m, manufacturer's coefficient of variation

Maintains close dimensional tolerances to ensure best field emission uniformity. (CV ≤ 2.5%)

Resistance to chemical and fertilizer

Jain Turbo Slim can stand chemicals and fertilizer used in agriculture

Applications

- Jain Turbo Slim TE is ideal for irrigation of closely spaced row crops like sugarcane, potato, cotton, banana, strawberry, lettuce, cabbage, tomatoes, chillies, pepper, melons, cucumber, floriculture, vegetables and spices.
- Recommended to use in greenhouses and nurseries.
- Suitable for surface as well as sub surface installations.

Specifications

Nominal Discharge

Nominal Discharge, lph		Nominal Discharge, gph	
1.0 kg/cm ²	0.7 kg/cm ²	14 psi	10 psi
0.8	0.65	0.21	0.17
1.2	1.00	0.32	0.26
1.5	1.25	0.40	0.33
2.1	1.72	0.55	0.46
4.0	3.39	1.06	0.90

- **Sizes** : 12, 16, 17, 20, 22 and 25 mm 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** : 5, 6, 8, 10, 12, 13, 15, 18, 20 & 25 mil (0.15, 0.2, 0.25, 0.30, 0.32, 0.38, 0.45, 0.50 & 0.63 mm) Any other wall thickness can be supplied on demand.
- **Emitter Spacing** : Standard emitter spacing - 15, 20, 30, 40, 50, 60, 75, 90, 100, 120 and 150 cm. Other emitter spacing and group spacing can be supplied on demand.

Operating Specifications

- Nominal operating pressure 0.7 kg/cm² for wall thickness up to 10 mil, 1.0 kg/cm² for wall thickness more than 10 mil.
- Recommended to use specially designed Tape Lock fittings.
- Always keep the dripper in upright position to minimise blockage due to sedimentation and precipitation.
- For subsurface application, install vacuum breaker valves on the submain as well as on the collective drain to avoid soil suction during system shutdown.



Jain Turbo Slim® - TE

Technical Specifications for Emitter - Metric

Nominal Discharge (lph)	Emitter Exponent	Flow Coefficient k	Coeff. of mfg. Variation, CVm	Flow Path Dimensions, mm			Inlet Filter Area (mm ²)	Size of Filter Openings (mm x mm)	Filtration requirement (micron)
	x			Length	Width	Depth			
0.8	0.47	0.75	2.0	16.5	0.47	0.40	3.00	0.30 x 0.40	100
1.2	0.46	1.20	2.0	16.1	0.62	0.64	3.44	0.27 x 0.51	130
1.5	0.47	1.50	2.0	17.1	0.68	0.75	5.35	0.33 x 0.60	130
2.1	0.48	2.10	2.5	17.4	0.80	0.84	6.28	0.31 x 0.75	130
4.0	0.45	4.00	2.5	18.0	1.04	1.05	5.52	0.30 x 0.60	130

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 k	Coeff. of mfg. Variation, CVm	Flow Path Dimensions, inch			Inlet Filter Area (inch ²)	Size of Filter Openings (inch x inch)	Filtration requirement (micron)
	x			Length	Width	Depth			
0.21	0.47	0.062	2	0.65	0.018	0.016	0.005	0.016x0.012	100
0.32	0.46	0.094	2	0.63	0.024	0.025	0.005	0.020x0.011	130
0.40	0.47	0.117	2	0.67	0.027	0.029	0.008	0.023x0.013	130
0.55	0.48	0.164	2.5	0.68	0.031	0.033	0.010	0.029x0.012	130
1.06	0.45	0.312	2.5	0.70	0.041	0.041	0.008	0.024x0.013	130

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

Coil Lengths

Emitter spacing		Nominal Diameter of 16 mm, 17 mm & 5/8"																			
		5 mil		6 mil		8 mil		10 mil		12 mil		13 mil		15 mil		18 mil		20 mil		25 mil	
(cm)	(inch)	(m)	(ft.)	(m)	(ft.)	(m)	(ft.)	(m)	(ft.)	(m)	(ft.)	(m)	(ft.)	(m)	(ft.)	(m)	(ft.)	(m)	(ft.)	(m)	(ft.)
15	6	2300	7544	2500	8200	2100	6888	2000	6560	1600	5248	1500	4920	1200	3936	1000	3280	900	2952	500	1640
20	8	2500	8200	2750	9020	2500	8200	2150	7052	1700	5576	1600	5248	1300	4264	1050	3444	950	3116	550	1804
25	10	2700	8856	2750	9020	2500	8200	2150	7052	1750	5740	1650	5412	1350	4428	1100	3608	1000	3280	550	1804
30+	12+	3000	9840	3200	10496	2700	8856	2250	7380	1800	5904	1700	5576	1400	4592	1150	3772	1000	3280	600	1968
Nominal Diameter of 22 mm & 7/8"																					
15	6	-	-	1800	5904	1500	4920	1000	3280	950	3116	900	2952	750	2460	650	2132	600	1968	350	1148
20	8	-	-	2000	6560	1700	5576	1300	4264	1050	3444	1000	3280	800	2624	700	2296	650	2132	350	1148
25	10	-	-	2200	7216	1800	5904	1400	4592	1150	3772	1100	3608	850	2788	750	2460	700	2296	400	1312
30+	12+	-	-	2500	8200	2000	6560	1700	5576	1250	4100	1200	3936	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 270 mm (22" x 10.6"). Other coil sizes such as 350x150 mm (13.8" x 5.7") and 350x270 mm (13.8" x 10.6") are also available. Please contact for other sized tape coil lengths of Jain Turbo Excel.

Ordering Specifications

TE	XXX	XX	XXX	XX	XXXX	N
	Inside diameter	Nominal Discharge in lph x 10	Dripper Spacing in cm	Wall thickness in mil	Standard Coil Length in meter	N - Non pressure compensating
	11.8-12mm 15.9-16mm 16.1-17mm 20-20mm 22.2-22mm 58-5/8" 98-9/8" 78-7/8" 138-1-3/8"			06 - 6 mil (0.15mm) 08 - 8mil (0.2 mm) 10 - 10mil (0.25mm) 12 - 12 mil (0.3mm) 13 - 13 mil (0.33mm) 15 - 15 mil (0.38 mm) 20 - 20 mil (0.5mm) 24 - 24 mil (0.6mm)		

Example : TE15916030063200N - This code refers to JainTurbo Slim TE - Thin Wall of 15.9 mm inside diameter having nominal discharge of 1.6 lph, emitter spaced at 30 cm, wall thickness of 6 mil (0.15mm), standard coil length of 3200 m non pressure compensating driptape.