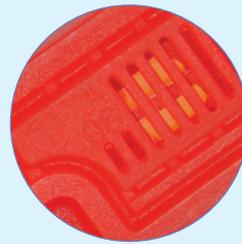
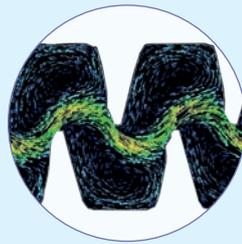


Jain Turbo Top® HD

PC & PCAS



Integral, Flat, Pressure Compensating Dripline

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

Innovative Cascade Labyrinth

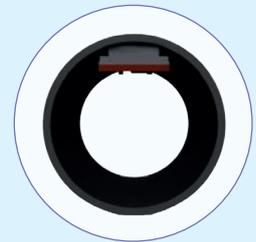
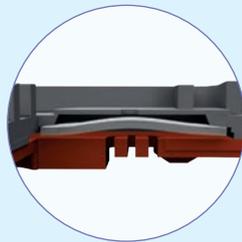
Cascade labyrinth gives strong, self cleaning turbulence. Hydrodynamic dripper design ensures continuous flushing of sediments and small dirt particles.

Innovative Inlet Filter

Multiple channel innovative 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 high 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, 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® HD

Additional Features

Longer Lateral Lengths - Can run for longer lengths without compromising the uniformity.

Quality Comes First - Each batch is tested for stringent quality parameter. Conforming to Indian standard IS 13488:2008 and international standard ISO 9261:2004.

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

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

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

Rodent Deterrent option - Can also be supplied with Rodent Deterrent option (Condition apply)

Applications

- All purpose versatile product. Suitable for undulating and hilly terrain.
- Recommended for Greenhouse application.
- 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** : Standard sizes of 12, 16, 17, 18, 20, 22 and 23 mm nominal diameter. Other sizes can be supplied on demand.
- **Pressure Compensating Range** : 0.4 to 4.0 kg/cm² (5.7 to 56 psi)

Operation Specifications

- Maintain the operating pressure within the pressure regulating range.
- Specially designed emitting pipe fittings are available.
- Always keep the dripper in upright position for better clog resistance.
- 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 further details.

Jain Turbo Top® HD PC

Upper View

Weir structure against root intrusion and sand suction



Bottom View



Cascade labyrinth, wide water passage and strong self-cleaning operation

Jain Turbo Top® HD PCAS

Upper View



anti-siphon

Bottom View

Filter with side water inlets



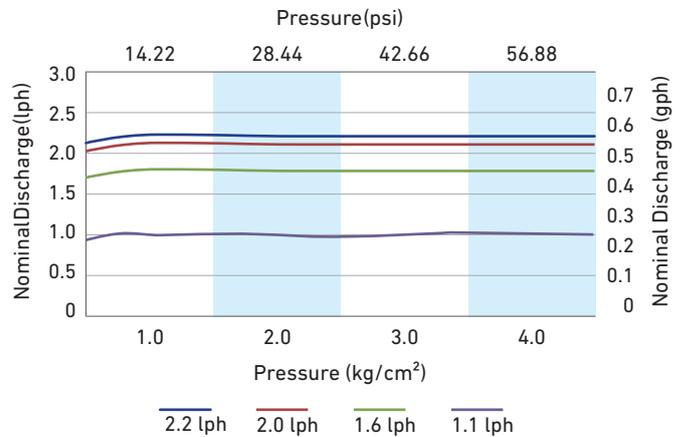
Jain Turbo Top® HD

Technical Specifications - Tubing

Nominal Dia (mm)	Inside Dia. (mm)	Minimum Wall Thickness (mm)			Standard Coil Length (m)
		Class 1	Class 2	Class 3	
*16	14.2	0.5	0.7	1.0	100, 250, 400
16	13.8	-	0.9	1.0	100, 250, 400
18	15.9	0.7	0.9	1.2	100, 250
*20	18.0	0.7	0.9	1.2	100, 250

* Dimensions are as per Indian Standard IS 13488:2008.

Performance Graph



Technical Specifications for Emitter - Metric

Nominal Discharge (lph)	Emitter Exponent	Flow Coefficient k	Coeff. of mfr. Variation CVm	Flow path Dimensions (mm)			Inlet Filter Area (mm²)
	x			Length	Width	Depth	
1.1	0	1.1	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/cm^2 , x = Emitter exponent

Technical Specifications for Emitter - US

Nominal Discharge (gph)	Emitter exponent	Flow coefficient k	Coeff. of mfr. variation CVm	Flow path dimensions (inch)			Inlet filter area (inch²)
	x			Length	Width	Depth	
0.26	0	0.264	1.5	0.82	0.22	0.24	0.003
0.42	0	0.423	1.5	0.82	0.26	0.32	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



Jain Turbo Top® HD

Ordering Specifications

TT	XX	XX	XXX	X	XXX	P	XX	X
	Nominal dia. in mm	Nominal Discharge in lph x 10	Dripper Spacing in cm	Pressure Rating Class	Standard Coil Length in meter	P - Pressure compensating	AS - Anti Siphon	Color of the tube
								Blank - Standard Black with 'Twin Line' B - Brown (Landscape) W - White (Greenhouse) P - Purple (Reclaimed Water)

Example : TT16110302400PAS - This code refers to Jain Turbo Top HD PCAS option of 16mm nominal diameter having nominal discharge of 1.1 lph, emitter spaced at 30 cm, pressure rating class-2 and standard coil length of 400 m black tube with 'Twin Line'.

Note

- Jain Turbo Top is manufactured with ID control and declared OD are nominal. If you have specific ID or OD requirement, please mention while ordering.
- Jain Turbo Top can be supplied in any other wall thickness and pressure ratings.
- Jain Turbo Top can be supplied in group spacing on request. Specify distance between drippers in the group, distance between two groups & no. of drippers in a group (minimum three drippers) as,

