Turboline PC®





Integral, Cylindrical Pressure Compensating Dripline

State-of-the-art cylindrical C (Pressure Compensating dripper ensures highest durability and excellent performance.



Multiple Outlet Holes breaks vacuum, prevents sand suction.



vative Cascade Labyrinth

Cascade labyrinth gives strong, self cleaning turbulence. Hydrodynami



Marked with Two Parallel White Stripes 'Twin- Line*' Stringent Quality Control
Each batch is tested for strin-Symbol of quality. It also helps to ensure upright forming to Indian standar 13488:2008 and international attendard ISO 9261.





Flexibility in color

Black - for agriculture, Brown - for landscape White - for greenhouse Purple - for reclaimed wat

MORE CROP PER DROP





Turboline PC°

Technical Specifications - Tubing

Nominal	Inside Dia. (mm)		Standard Coil					
Dia. (mm)		Class-1	Class-2	Class-3	Class-4	Length (m)		
*16	14.2	0.5	0.7	1.0	1.3	100, 250, 400		
*20	18.0	0.7	0.9	1.2	1.5	100, 250		
* Dimensions are as per Indian Standard IS 13488:2008.								

Technical Specifications - Emitter Technical Specifications for Emitter - Metric

Nominal Discharge	Emitter Flow exponent coefficient		Coeff. of mfgr. variation,	Flow path dimensions (mm)			Inlet filter
(lph)	x	k	CVm	Length Width		Depth	area (mm²)
16 mm							
1.1	0	1.1	2.5	60	0.70	0.98	14.08
1.6	0	1.6	2.5	60	0.78	1.08	14.08
2.2	0	2.2	1.5	60	0.80	1.10	14.08
3.5	0	3.5	4.0	60	1.04	1.32	14.08
20 mm							
0.9	0	0.9	2.5	110	0.74	1.10	7.29
1.6	0	1.6	2.5	87	1.04	1.10	9.20
2.2	0	2.2	3.0	87	1.04	1.30	11.00
3.8	0	3.8	3.0	128	1.00	1.20	14.40

ion $q = kH^c$, q = Nominal Discharge, lph, H = Pressure head, kg/cm^2 , x = Emitter exponents

Technical Specifications for Emitter - US

Nominal Discharge	Emitter exponent	Flow coefficient	Coeff. of mfgr. variation,	Flow path dimensions (inch)			Inlet filter area	
(gph)	x	k	CVm	Length	Width	Depth	(inch²)	
16 mm								
0.29	0	0.290	2.5	2.36	0.028	0.039	0.022	
0.42	0	0.423	2.5	2.36	0.031	0.043	0.022	
0.58	0	0.581	1.5	2.36	0.031	0.043	0.022	
0.93	0	0.925	3.0	2.36	0.041	0.052	0.022	
20 mm								
0.24	0	0.238	2.5	4.33	0.023	0.043	0.011	
0.42	0	0.423	2.5	3.43	0.041	0.043	0.014	
0.58	0	0.581	3.0	3.43	0.041	0.051	0.017	
1.00	0	1.004	3.0	5.04	0.04	0.047	0.022	



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Other Important Features

Manufactured from Special Grade Virgin Plastic

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.

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

Wide Pressure Compensating Range Pressure regulation starts as low as 0.5 kg/cm² to as high as 4 kg/cm² pressure.

Longer Lateral Lengths ${\sf Can}\,{\sf run}$ for longer lengths without compromising the uniformity.

Rodent Deterrent option
Can also be supplied with Rodent Deterrent option (Condition

Applications

- Ideal for irrigation of closely spaced row crops like sugarcane, cotton, banana, strawberry, floriculture, vegetables and spices.
 Suitable for surface as well as sub-surface irrigation.
- Recommended for undulating terrain & steep slopes and where longer lateral running length is necessary.
- . Open field application to maintain high field application
- . Suitable for low operating pressure/ Gravity feed irrigation

Specifications

- Nominal Discharges: Turboline PC 16 mm: 1.1, 1.6, 2.2 and 3.5 lph for tubing wall thickness as per pressure class2. Turboline PC 20 mm: 0.9, 1.6, 2.2 and 3.8 lph for tubing wall thickness as per pressure class 1.
- 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 16 and 20 mm nominal diameter • Pressure Compensating Range: 0.8 to 4 kg/cm² (7 to 71

Operating Specifications

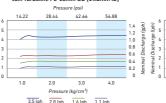
- Maintain the operating pressure within the pressure regulating range.
- Specially designed emitting pipe fittings are available.
- Filtration recommendation 130 micron or less. Actual quality of filtration can be decided by quality of source water. Please refer to our "Maintenance Manual" for further details.
- For subsurface application, install vacuum breaker valves on the submain as well as on the collective drain to avoid soil suction during system shutdown.

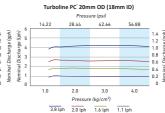




Turboline PC°

Performance Graph Jain Turboline PC 16mm OD (14.2mm ID)





Note: Performance graph for Jain Turboline PC" as per Pressure Class-2. Note: Performance graph for Jain Turboline PC" as per Pressure Class-1.

recinical Specifications for Emitter with unferent wall unickness tube								
Size	Nominal Discharge (lph)	Nominal Flow rate as per wall thickness						
	Wall thickness (mm)	0.5 - 0.6	0.7 - 0.9	1.0 - 1.2				
	1.1	1.4	1.3	1.1				
16	1.6	2.0	2.0	1.30				
16	2.2	2.8	2.6	2.2				
	3.5	3.8	3.6	2.8				
Wall thickness (mm)		0.7 - 0.8	0.9 - 1.1	1.2 - 1.4				
	0.9	1.1	0.9	MTO				
20	1.6	2.0	1.7	MTO				
20	2.2	2.6	1.8	MTO				
	3.8	4.3	4.0	MTO				

٠,	ordering specifications									
ſ	L	XX	XX	XXX	Х	XXX	P	X		
			Nominal Dripper Spacing in lph x 10 cm		Standard		Color of the tube			
	١.	Nominal diam-			Pressure Rating Class	Coil	compensat-	Blank - Standard Black with 'Twin Line'		
		eter in mm						B - Brown (Landscape)		
		eter in min		cm				W - White (Greenhouse)		
								P - Purple (Reclaimed Water)		

Example: L16400602400P - This code refers to Turboline PC option of 16mm nominal diameter having nominal discharge of 4.0 lph, emitter space at 60 cm, pressure rating class-2 and standard coil length of 400 m black tube with Twin Line:

- Note

 Turboline PC is manufactured with ID control and declared OD are nominal. If you have specific ID or OD requirement, please mention while

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JAIN | WORLD LEADER IN IRRIGATION TECHNOLOGY

Turboline PC can be supplied in any
 Turboline PC can be supplied in groud drippers in a group (minimum three)

