Tornado Ray-Jet

For under tree irrigation in fruit orchards

Order Tornado from: www.irrigationglobal.com







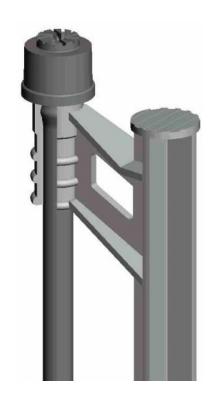
Tornado

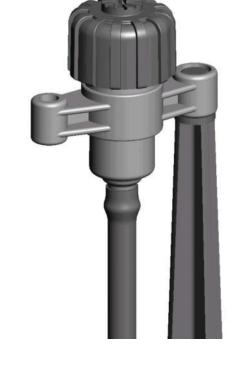
- Unique Vortex chamber
- Best clogging resistance and reliability
- Years of proven experience in many different crops worldwide
- Robust structure with compact dimensions





The Tornado Family





Ray-Jet

Openable Ray-Jet Take Apart

Tornado Specifications

	Ray-Jet sprayer	Take Apart jet sprayer (openable)			
Flow rates* (lph)	25, 34, 55, 70				
Nozzle color and size (mm)	Black(0.9), blue(1.3), green(1.7), red(2.0)				
Operating pressure (bar)	1.5 - 3.0				
Wetting diameter (meter)		2.4 - 4.2			
Wetting patterns	K	* *			

* Ray jet at 1.5 bar

- Take- apart (Openable) compatible with pressure regulated Meteors
- Materials: Vortex chamber Acetal; Cap Polypropylene Agro-chemical resistant
- Protected against UV degradation





Vortex Mechanism

- Tornado sprayers incorporate a unique vortex chamber. This mechanism controls the flow rate of the emitter, and allows large water passages even with low flow rates
- Water passages in a Vortex chamber are 150%
 larger than those in an orifice nozzle with the same flow rate
- <u>Example</u>: at 34 lph emitters water passage is 1.3mm compared to 0.85mm orifice nozzle



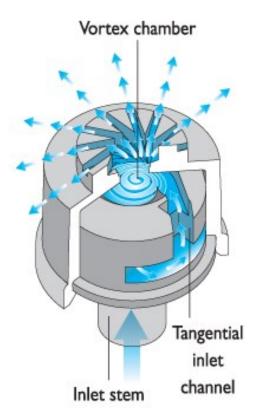
5mm threaded inlet nozzle



Conic inle



Nozzle for pressure regulator



Benefit - Outstanding resistance to clogging

Tornado Ray Jet Sprayer - Benefits

- No moving parts to break, jam or wear out
- No bridge robust structure
- 2 installation options Upright or inverted position
- 3 Wetting Patterns 180°, 300°, 360° (300° for stem protection)





Tornado Take Apart (openable) - Benefits

- Easy to take apart (Openable) for cleaning
- Available with pressure regulator





Design Flexibility

- Suits density planting distances
- Variety of flow rates and wetting diameters / patterns

Nozzle	Flow Rate (lph)**	Diameter	Lateral Pipe Diameter (O.D. mm)	Max. No. of Jet Sprayers on Irrigation Laterals* Spacing between Sprayers (m)									als*
Color &													
Size (mm)				2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
Black			16	26	24	22	21	20	19	18	18	17	16
•	25	2.4	17.8	32	29	27	26	24	23	22	22	21	20
0.9	\$7		20	40	37	34	33	31	30	28	27	27	26
Blue			16	20	19	18	17	16	15	14	14	13	13
	34	3.2	17.8	25	23	21	20	19	18	18	17	16	16
1.3	V-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2		20	32	29	27	26	25	23	23	22	21	20
Green			16	15	14	13	12	12	11	11	10	10	10
	55	3.6	17,8	19	17	16	15	14	14	13	13	12	12
1.7			20	24	22	21	19	18	18	17	16	16	15
Red			16	14	13	12	11	11	10	10	10	9	9
	70	4.2	17.8	18	16	15	14	13	13	12	12	11	11
2.0			20	22	21	19	18	17	16	16	15	15	14

^{*} At ± 5% flow variation

^{**} Inlet pressure: 1.5 bar

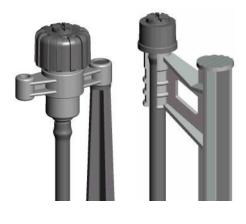
^{***} Upright position, 25 cm above ground level (360°- 12 jet streams)

Accessories

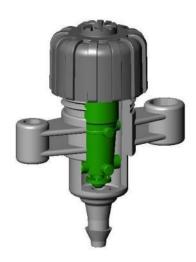


½" THF Riser adaptor x Top conic female outlet

Stakes







Meteor adaptor (MSA 46)



2.8mm simple punch & adaptor inserter



Tornado – A Reliable, Heavy-Duty Product

- Tested and proven for more than 20 years
- Installed worldwide in many different fruit orchards
- In Florida, a well known citrus orchard growing area, many growers chose the Tornado for irrigation

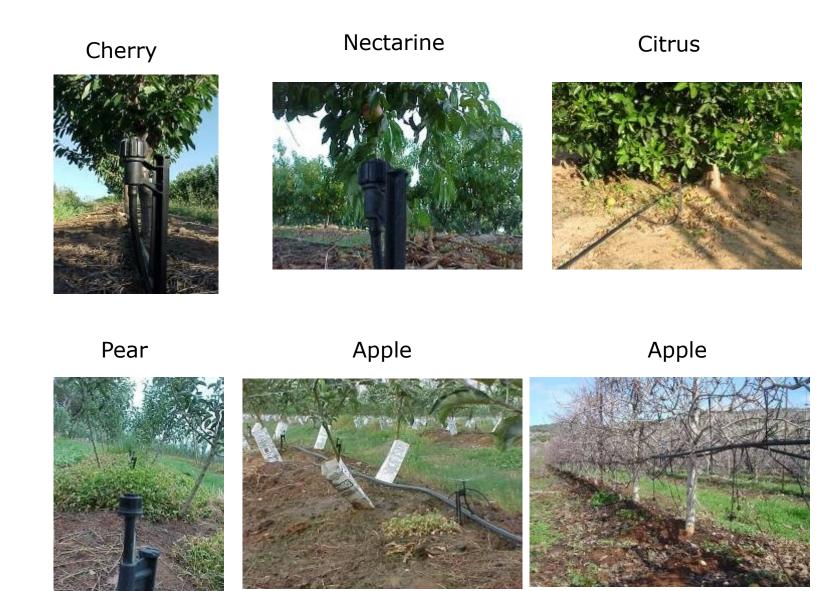




Tornado Applications

Guava Palm **Almond** Avocado Pomelo Orchard

Tornado Applications



Conclusion

- Tornado is very reliable Ray-Jet
- Tornado has outstanding resistance to clogging
- Tornado Ray-Jet has years of successful experience in many different conditions and applications

Tornado - an irrigation emitter you can trust!



Good luck!



Contact: www.irrigationglobal.com



