

## Tornado Ray Jet



### Rivulis Tornado Ray Jet: No moving parts to break, jam, or wear out

- Ideal for Orchards
- Use in inverted position for young trees and reduced wetting pattern. As the crop matures, change to upright for full wetting pattern.

# Rivulis Tornado Ray Jet

No moving parts to break, jam, or wear out

Available in a wide range options including:

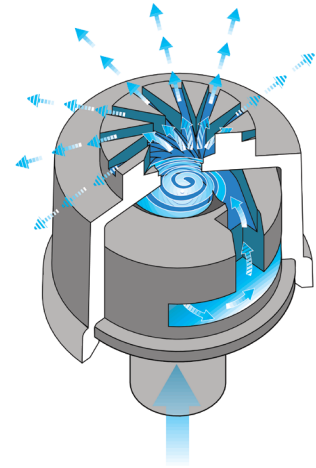
**3 x Wetting Patterns:**

180° (8 jet streams) for landscape applications

300° (10 jets) to protect tree trunks

360° (12 jets) for full wetting pattern

**Standard Tornado plus take-apart options that can be used with a pressure regulator for sloping terrain available.**



## Product Information

Technical Data	
Operating pressure range	1.5 - 3.0 bar
Pressure (for flow rate calculation)	1.5 bar
Filtration requirements	
≤ 40 lph:	130 micron / 120 mesh
40 – 70 lph:	200 micron / 80 mesh
> 70 lph:	250 micron / 60 mesh



**8 jets (180° Option)**  
Perfect for landscape applications for placement on the edge to irrigate garden beds while keeping footpaths dry



Use inverted for young trees for reduced wetting pattern.

As the crop matures change to upright position

### How to Use

- Tornado Ray Jet sprayer with 5 mm threaded inlet stem fits the 4x7 mm feeder tube and the Clip Hammer stake
- Tornado Ray Jet sprayer with conic male inlet stem matches the Rivulis Meteor adapter (#71) with conic female outlet.
- Take apart vortex nozzle, assembled with a ray jet grooved cap on the Rivulis Meteor adapter (#46).

# Performance Information

## Rivulis Tornado Ray Jet | Maximum Number of Sprays on Irrigation Laterals (+/- 5% Flow Variation)

Nominal Flow Rate	Nozzle Color	Wetting Diameter	Hose Size		Spacing Between Sprays (m)									
			ID	OD	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
lph		m	mm	mm	Number of sprays									
25*	Black	2.4	13.6	16	26	24	22	21	20	19	18	18	17	16
			15.2	17.8	32	29	27	26	24	23	22	22	21	20
			17.4	20	40	37	34	33	31	30	28	27	27	26
34	Blue	3.2	13.6	16	20	19	18	17	16	15	14	14	13	13
			15.2	17.8	25	23	21	20	19	18	18	17	16	16
			17.4	20	32	29	27	26	25	23	23	22	21	20
55	Green	3.6	13.6	16	15	14	13	12	12	11	11	10	10	10
			15.2	17.8	19	17	16	15	14	14	13	13	12	12
			17.4	20	24	22	21	19	18	18	17	16	16	15
70	Red	4.2	13.6	16	14	13	12	11	11	10	10	10	9	9
			15.2	17.8	18	16	15	14	13	13	12	12	11	11
			17.4	20	22	21	19	18	17	16	16	15	15	14

\* Tornado take apart with black nozzle flow rate is 28 lph. Additional specifications available upon request.

## Rivulis Tornado Flow Rate / Pressure

Pressure (bar)	Flow Rate (lph)				
	Black 25	Take Apart Black 28	Blue 34	Green 55	Red 70
1.5	25.6	28.0	33.9	55.7	73.3
2.0	29.5	32.4	39.8	64.3	79.3
2.5	33.0	36.0	45.1	71.8	87.0
3.0	36.2	39.4	50.0	78.6	93.9

# Product List

Rivulis Tornado Ray Jet Heads							
Product Description	Flow rate @ 1.5 bar (lph)	Nozzle Colour & Size (mm)	Wetting Pattern	Inlet Connection	Wetting Diameter (m)*	Quantity (bag)	Product Number
Tornado Ray Jet   25 lph   5 mm threaded	25	Black 0.9	360°	5 mm threaded	2.4	500	201000079
Tornado Ray Jet   34 lph   5 mm threaded	34	Blue 1.3			3.2	500	201000080
Tornado Ray Jet   55 lph   5 mm threaded	55	Green 1.7			3.6	500	201000081
Tornado Ray Jet   70 lph   5 mm threaded	70	Red 2.0			4.2	500	201000082
Tornado Ray Jet   25 lph   Male conic	25	Black 0.9	360°	Male conic	2.4	500	201000077
Tornado Ray Jet   34 lph   Male conic	34	Blue 1.3			3.2	500	101003355
Tornado Ray Jet   55 lph   Male conic	55	Green 1.7			3.6	500	201000078
Tornado Ray Jet   70 lph   Male conic	70	Red 2.0			4.2	500	101003356
Tornado Ray Jet   25 lph   300°   5 mm threaded	25	Black 0.9	300°	5 mm threaded	3.2	500	101003361
Tornado Ray Jet   34 lph   300°   5 mm threaded	34	Blue 1.3			3.8	500	201000083
Tornado Ray Jet   55 lph   300°   5 mm threaded	55	Green 1.7			4.2	500	201000084
Tornado Ray Jet   70 lph   300°   5 mm threaded	70	Red 2.0			6.0	500	201000088
Tornado Ray Jet   25 lph   300°   Male conic	25	Black 0.9	300°	Male conic	3.2	500	101018423
Tornado Ray Jet   34 lph   300°   Male conic	34	Blue 1.3			3.8	500	101009616
Tornado Ray Jet   55 lph   300°   Male conic	55	Green 1.7			4.2	500	101018424
Tornado Ray Jet   70 lph   300°   Male conic	70	Red 2.0			6.0	500	101028566
Tornado Ray Jet   70 lph   180°   5 mm threaded	25	Black 0.9	180°	5 mm threaded	3.6	500	201000085
Tornado Ray Jet   70 lph   180°   5 mm threaded	34	Blue 1.3			4.2	500	201000086
Tornado Ray Jet   70 lph   180°   5 mm threaded	55	Green 1.7			5.6	500	101003363
Tornado Ray Jet   70 lph   180°   5 mm threaded	70	Red 2.0			6.6	500	201000087



## Rivulis Tornado Ray Jet Heads

Product Description	Flow rate @ 1.5 bar (lph)	Nozzle Color & Size (mm)	Wetting Pattern	Inlet Connection	Wetting Diameter (m)*	Quantity (bag)	Product Number
Tornado Ray Jet   25 lph   180°   Male conic	25	Black 0.9	180°	Male conic	3.6	500	201003431
Tornado Ray Jet   34 lph   180°   Male conic	34	Blue 1.3			4.2	500	201003432
Tornado Ray Jet   55 lph   180°   Male conic	55	Green 1.7			5.6	500	201003433
Tornado Ray Jet   70 lph   180°   Male conic	70	Red 2.0			6.6	500	101018425



\*Upright position, 25 cm above ground, 1.5 bar

## Tornado Ray Jet Complete Assemblies

Product Description	Flow rate @ 1.5 bar (lph)	Nozzle Colour & Size (mm)	Wetting Pattern	Assembly	Wetting Diameter (m) Upright position, 25 cm above ground, 1.5 bar	Quantity (bag)	Product Number
Tornado Ray Jet   25 lph   Assembly	25	Black 0.9	360°	PE 4x7mm 60cm tube + Cantad Stake + 4x7 Blue Barb Coupling	2.4	250	101028590
Tornado Ray Jet   34 lph   Assembly	34	Blue 1.3			3.2	250	101028591
Tornado Ray Jet   55 lph   Assembly	55	Green 1.7			3.6	250	101028592
Tornado Ray Jet   70 lph   Assembly	70	Red 2.0			4.2	250	101028593
Tornado Ray Jet   25 lph   300°   Assembly	25	Black 0.9	300°		3.2	250	101028594
Tornado Ray Jet   34 lph   300°   Assembly	34	Blue 1.3			3.8	250	101028601
Tornado Ray Jet   55 lph   300°   Assembly	55	Green 1.7			4.2	250	
Tornado Ray Jet   70 lph   300°   Assembly	70	Red 2.0			6.0	250	
Tornado Ray Jet   70 lph   180°   Assembly	25	Black 0.9	180°		3.6	250	101028595
Tornado Ray Jet   70 lph   180°   Assembly	34	Blue 1.3			4.2	250	
Tornado Ray Jet   70 lph   180°   Assembly	55	Green 1.7			5.6	250	
Tornado Ray Jet   70 lph   180°   Assembly	70	Red 2.0			6.6	250	

## Rivulis Tornado Take Apart

Product Description	Flow rate (lph)	Wetting Pattern	Wetting Diameter (m) Upright position, 25 cm above ground, 1.5 bar inlet pressure	Nozzle Color & Size (mm)	Product Number
<b>Nozzles for use with Pressure Regulator. For non-PC applications use conic nozzles (available upon request)</b>					
Tornado Take Apart Black Nozzle 28 lph	28	Dependent on cap used	2.4	Black 0.9	201000743
Tornado Take Apart Blue Nozzle 43 lph	34		3.2	Blue 1.3	201000744
Tornado Take Apart Green Nozzle 55 lph	55		3.6	Green 1.7	201000745
Tornado Take Apart Red Nozzle 70 lph	70		4.2	Red 2.0	201000746
<b>Caps</b>					
Take Apart Ray Jet Cap (360°)		360°			201000753
Take Apart Ray Jet Cap (300°)		300°			201000756



## Tornado Take Apart Assemblies

Product Description	Flow rate @ 1.5 bar (lph)	Wetting Diameter (m) Upright position, 25 cm above ground, 1.5 bar	Meteor Adaptor	Tube	Stake	Quantity (bag)	Product Number
Tornado Take Apart   Black 28 lph   360°   Assembly	28.0	2.4	Multi function Meteor Adaptor 46 (3/8" F x 1/2" M x 4/7)	60 cm PE 4x7	Cantal Stake	250	101028615
Tornado Take Apart   Blue 34 lph   360°   Assembly	34.0	3.2				250	101028605
Tornado Take Apart   Green 55 lph   360°   Assembly	55.0	3.6				250	101028606
Tornado Take Apart   Red 70 lph   360°   Assembly	70.0	4.2				250	101022178
Tornado Take Apart   Black 28 lph   300°   Assembly	28.0	3.2				250	CONSULT
Tornado Take Apart   Blue 34 lph   300°   Assembly	34.0	3.8				250	101062066
Tornado Take Apart   Green 55 lph   300°   Assembly	55.0	4.2				250	CONSULT
Tornado Take Apart   Red 70 lph   300°   Assembly	70.0	6				250	CONSULT

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