

## 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
- Best clogging resistance and reliability due to it's vortex chamber



# Rivulis Tornado Ray Jet

No moving parts to break, jam, or wear out

Available in a wide range options including:

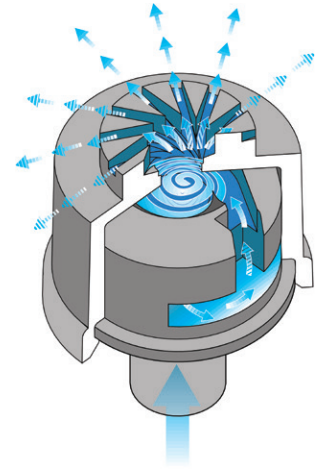
**3 x Wetting Patterns:**

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.



*Vortex Chamber*



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

## 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



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	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		mm	mm	Number of sprays									
26.7	Black	13.6	16	26	24	23	21	20	19	19	18	17	17
		15.2	17.8	32	30	28	26	25	24	23	22	21	21
		17.4	20	41	38	35	33	32	30	29	28	27	26
34	Blue	13.6	16	23	21	19	18	17	17	16	15	15	14
		15.2	17.8	28	25	24	22	21	20	19	19	18	18
		17.4	20	35	32	30	28	27	26	25	24	23	23
54	Green	13.6	16	16	15	14	13	12	12	11	11	11	10
		15.2	17.8	20	18	17	16	15	15	14	14	13	13
		17.4	20	26	23	22	21	20	19	18	17	17	16
70	Red	13.6	16	14	13	12	11	10	10	10	9	9	9
		15.2	17.8	17	16	14	14	13	12	12	11	11	11
		17.4	20	22	20	19	17	17	16	15	15	14	14

## Rivulis Tornado Flow Rate / Pressure

	Flow rate (lph)			
Pressure (bar)	Black 26.7	Blue 34	Green 54	Red 70
1.5	26.8	33.7	54.2	69.4
2.0	30.4	38.5	62.0	79.6
2.5	33.8	42.6	68.9	88.5
3.0	36.8	46.6	75.3	96.4

## Flow of different Tornado

	Flow rate (lph)			
Product	Black	Blue	Green	Red
Tornado Take-apart*	29	37	59	74
Tornado Take Apart with Pressure Regulator 1.5 bar	29	37	57	73

\* At 1.5 bar

# 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   26.7 lph   5 mm threaded	26.7	Black 0.9	360°	5 mm threaded	2.4	500	101070880
Tornado Ray Jet   34 lph   5 mm threaded	34	Blue 1.3			3.2	500	201000080
Tornado Ray Jet   54 lph   5 mm threaded	54	Green 1.7			3.6	500	101070882
Tornado Ray Jet   70 lph   5 mm threaded	70	Red 2.0			4.2	500	201000082
Tornado Ray Jet   26.7 lph   Male conic	26.7	Black 0.9	360°	Male conic	2.4	500	101070886
Tornado Ray Jet   34 lph   Male conic	34	Blue 1.3			3.2	500	101003355
Tornado Ray Jet   54 lph   Male conic	54	Green 1.7			3.6	500	101070887
Tornado Ray Jet   70 lph   Male conic	70	Red 2.0			4.2	500	101003356
Tornado Ray Jet   26.7 lph   300°   5 mm threaded	26.7	Black 0.9	300°	5 mm threaded	3.2	500	101070884
Tornado Ray Jet   34 lph   300°   5 mm threaded	34	Blue 1.3			3.8	500	201000083
Tornado Ray Jet   54 lph   300°   5 mm threaded	54	Green 1.7			4.2	500	101070889
Tornado Ray Jet   70 lph   300°   5 mm threaded	70	Red 2.0			6.0	500	201000088
Tornado Ray Jet   26.7 lph   300°   Male conic	26.7	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   54 lph   300°   Male conic	54	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   26.7 lph   180°   5 mm threaded	26.7	Black 0.9	180°	5 mm threaded	3.6	500	101070885
Tornado Ray Jet   34 lph   180°   5 mm threaded	34	Blue 1.3			4.2	500	201000086
Tornado Ray Jet   54 lph   180°   5 mm threaded	54	Green 1.7			5.6	500	101070888
Tornado Ray Jet   70 lph   180°   5 mm threaded	70	Red 2.0			6.6	500	201000087



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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   26.7 lph   180°   Male conic	26.7	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   54 lph   180°   Male conic	54	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   26.7 lph   Assembly	26.7	Black 0.9	360°	PE 4x7mm 60cm tube + Cantad Stake + 4x7 Blue Barb Coupling	2.4	250	101070890
Tornado Ray Jet   34 lph   Assembly	34	Blue 1.3			3.2	250	101028591
Tornado Ray Jet   54 lph   Assembly	54	Green 1.7			3.6	250	CONSULT
Tornado Ray Jet   70 lph   Assembly	70	Red 2.0			4.2	250	101028593
Tornado Ray Jet   26.7 lph   300°   Assembly	26.7	Black 0.9	300°		3.2	250	CONSULT
Tornado Ray Jet   34 lph   300°   Assembly	34	Blue 1.3			3.8	250	101028601
Tornado Ray Jet   54 lph   300°   Assembly	54	Green 1.7			4.2	250	CONSULT
Tornado Ray Jet   70 lph   300°   Assembly	70	Red 2.0			6.0	250	CONSULT
Tornado Ray Jet   26.7 lph   180°   Assembly	26.7	Black 0.9	180°		3.6	250	101028595
Tornado Ray Jet   34 lph   180°   Assembly	34	Blue 1.3			4.2	250	CONSULT
Tornado Ray Jet   54 lph   180°   Assembly	54	Green 1.7			5.6	250	CONSULT
Tornado Ray Jet   70 lph   180°   Assembly	70	Red 2.0			6.6	250	101048128

## 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 29 lph	29	Dependent on cap used	2.4	Black 0.9	201000743
Tornado Take Apart Blue Nozzle 37 lph	37		3.2	Blue 1.3	201000744
Tornado Take Apart Green Nozzle 59 lph	59		3.6	Green 1.7	201000745
Tornado Take Apart Red Nozzle 74 lph	74		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 29 lph   360°   Assembly	29	2.4	Multi function Meteor Adaptor 46 (3/8" F x 1/2" M x 4/7)	60 cm PE 4x7	Cantal Stake 350mm	250	101028615
Tornado Take Apart   Blue 37 lph   360°   Assembly	37	3.2				250	CONSULT
Tornado Take Apart   Green 59 lph   360°   Assembly	59	3.6				250	CONSULT
Tornado Take Apart   Red 74 lph   360°   Assembly	74	4.2				250	101022178
Tornado Take Apart   Black 29 lph   300°   Assembly	29	3.2				250	101048129
Tornado Take Apart   Blue 37 lph   300°   Assembly	37	3.8				250	101062066
Tornado Take Apart   Green 59 lph   300°   Assembly	59	4.2				250	101048131
Tornado Take Apart   Red 74 lph   300°   Assembly	74	6				250	101048132

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