

MZ 300 SERIES

MZ301

Micro Sprinkler

Orchards, Nurseries

Unique Rotor Design

Multiple Connection Options



The MZ301 is specially designed for orchards, nurseries, greenhouses, vegetable crops, and under-tree irrigation of banana plantations, table grapes, etc. Ideal for plants spaced up to 6m' apart, it features multiple connection options for ease of use and a robust, user-friendly structure. With only three parts, it allows for quick installation and low maintenance, and the unique swivel/rotor design guarantees excellent water distribution.

HIGHLIGHTS

- **Versatile design:** User-friendly and sturdy, ideal for frost protection and overhead cooling
- **Insect-proof:** Unique anti-insect pop-up swivel design to protect against insects and prevent blockage of the nozzle.
- **Good coverage:** For proper distribution, the sprinklers can be spaced up to 6.0m (20.0 ft) apart
- **Low Angle:** Also available in a low angle version of 14°
- **Available connections:**
 - ✓ Push fit
 - ✓ Quick thread
 - ✓ 3/8" and 1/2" male thread

TECHNICAL DATA

- Recommended working pressure: 1.5-2.5 bar
- Flow Rates: 31-450 lph
- Wetted diameter range: 6-13m'
- Recommended filtration:
 - Violet-Grey Nozzle: 200 microns (80 mesh)
 - Green-White Nozzle: 500 microns (30 mesh)

Swivel Color	Nozzle Size & Colour	Pressure	Flow Rate	Wetted Diameter	Precipitation Rate (mm/hr) / Spacing (m)					
					3 x 3	4 x 4	5 x 5	6 x 6	6.5 x 6.5	6 x 7
● Black	0.8 mm Violet	1.5	31	6.0	3.4	1.9				
		2.0	36	6.5	4	2.2				
		2.5	40	6.5	4.3	2.4				
	0.94 mm Brown	1.5	45	6.5	5.1	2.8				
		2.0	52	7.0	5.8	3.3	2.1			
		2.5	58	7.0	6.3	3.5	2.3			
● Blue	1.14 mm Grey	1.5	61	7.0	6.8	3.8	2.4			
		2.0	71	8.5	8	4.5	2.9			
		2.5	79	8.5	8.8	4.9	3.2			
	1.4 mm Green	1.5	88	8.5	9.6	5.4	3.5			
		2.0	102	9.0	11.2	6.3	4			
		2.5	114	9.5	12.7	7.1	4.6			
● Green	1.54 mm Orange	1.5	106	10.0	11.6	6.5	4.2	2.9	2.5	2.5
		2.0	122	10.5	13.5	7.6	4.8	3.4	2.9	2.9
		2.5	136	10.5	15.1	8.5	5.4	3.8	3.2	3.2
	1.74 mm Black	1.5	141	10.5	15.7	8.8	5.6	3.9	3.3	3.4
		2.0	162	10.5	17.7	10	6.4	4.4	3.8	3.8
		2.5	181	11.0	20.1	11.3	7.2	5	4.3	4.3
	1.98 mm Blue	1.5	177	11.5	19.8	11.1	7.1	4.9	4.2	4.2
		2.0	204	12.0	22.8	12.8	8.2	5.7	4.9	4.9
		2.5	225	12.0	25.2	14.2	9.1	6.3	5.4	5.4
	2.2 mm Yellow	1.5	212	12.5	23.6	13.3	8.5	5.9	5	5.1
		2.0	245	12.5	27.2	15.3	9.8	6.8	5.8	5.8
		2.5	274	13.0	30.5	17.2	11	7.6	6.5	6.5
	2.4mm Red	1.5	251	12.5	28	15.7	10.1	7	6	6
		2.0	290	12.5	32.1	18.1	11.6	8	6.8	6.9
		2.5	324	13.0	36.1	20.3	13	9	7.7	7.7
	2.8mm White	1.5	350	13.0	39	21.9	14	9.7	8.3	8.4
		2.0	400	13.0	44.3	24.9	16	11.1	9.4	9.5
		2.5	450	13.0	50	28.1	18	12.5	10.6	10.7

- Tested under ideal laboratory conditions of temperature, wind, and humidity
- Riser height - 50cm

Codes of Distribution of Uniformity

CDU < 75%	75% ≤ CDU < 80%	80% ≤ CDU < 85%	85% ≤ CDU < 90%	CDU ≥ 90%
-----------	-----------------	-----------------	-----------------	-----------

Available Connections



1/2" thread

3/8" thread

Push fit

Quick thread

MZ301



Trident spike

Universal spike

43cm spike

Metal rod

PERFORMANCE TABLE MZ301 - LOW ANGLE

Swivel Color	Nozzle Size & Colour	Pressure	Flow Rate	Wetted Diameter	Precipitation Rate (mm/hr) / Spacing (m)						
	mm	bar	lph	m'	3 x 3	3.5 x 3.5	4 x 4	4.5 x 4.5	5 x 5	5.5 x 5.5	6 x 6
Grey	1.54 mm Orange	1.5	106	9.5	11.8	8.6	6.6	5.2	4.2	3.5	2.9
		2.0	122	10.0	13.6	10	7.7	6	4.9	4	3.4
		2.5	136	10.0	15.2	11.2	8.6	6.8	5.5	4.5	3.8
	1.74 mm Black	1.5	141	10.0	15.6	11.5	8.8	7	5.6	4.7	3.9
		2.0	162	10.5	17.9	13.2	10.1	8	6.5	5.3	4.5
		2.5	181	11.0	20.2	14.9	11.4	9	7.3	6	5.1
	1.98 mm Blue	1.5	177	10.5	19.5	14.3	11	8.7	7	5.8	4.9
		2.0	204	11.0	22.6	16.6	12.7	10	8.1	6.7	5.6
		2.5	225	11.5	24.9	18.3	14	11.1	9	7.4	6.2
	2.2 mm Yellow	1.5	212	10.5	23.6	17.3	13.3	10.5	8.5	7	5.9
		2.0	245	11.5	27.1	19.9	15.2	12	9.7	8.1	6.8
		2.5	274	11.5	30.6	22.5	17.2	13.6	11	9.1	7.6
	2.4 mm Red	1.5	251	11.5	27.9	20.3	15.4	12.1	9.8	8.1	6.8
		2.0	290	12.0	32.2	23.6	18.1	14.3	11.6	9.6	8
		2.5	324	12.5	36.2	26.6	20.3	16.1	13	10.8	9

- Tested under ideal laboratory conditions of temperature, wind, and humidity
- Riser height - 30cm

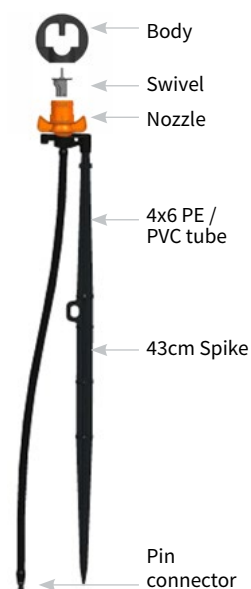
Codes of Distribution of Uniformity

CDU < 75%	75% ≤ CDU < 80%	80% ≤ CDU < 85%	85% ≤ CDU < 90%	CDU ≥ 90%
-----------	-----------------	-----------------	-----------------	-----------

NOZZLE SIZES



MZ301 - LA Assembly



Technical Data

- Recommended working pressure: 1.5-2.5 bar
- Flow rates: 106-325 l/h m'
- Wetted diameter range: 9.5-12.5 m'

PERFORMANCE TABLE MZ301 HEAP LEACHING

Nozzle Size & Color	Pressure	Discharge Rate	Wetted Diameter	Precipitation Rate (mm/hr) / Spacing (m)			
mm	bar	lph	m	3 x 3	3.5 x 3.5	4 x 4	4.5 x 4.5
1.54 mm Orange	1.5	106	10	6.6	4.2	3.5	2.9
	2	122	10	7.6	4.9	4.1	3.4
	2.5	136	10.5	8.4	5.4	4.5	3.7
1.74 mm Black	1.5	140	10	8.8	5.6	4.7	3.9
	2	162	10.5	10.1	6.5	5.4	4.5
	2.5	181	10.5	11.2	7.2	6	5
1.98 mm Blue	1.5	175	10.5	10.9	7	5.8	4.8
	2	202	11	12.5	8	6.7	5.6
	2.5	226	11	14.1	9	7.5	6.2
2.2 mm Yellow	1.5	212	10.5	13.3	8.5	7.1	5.9
	2	245	11.5	15.2	9.7	8.2	6.8
	2.5	274	11.5	17.2	11	9.1	7.6

- Tested at 50cm (1.6 ft) above the soil
- Tested in ideal laboratory conditions of temperature, wind, and humidity
- Performance table prepared under laboratory conditions
- For windy conditions, use closer spacing between sprinklers and laterals

Codes of Distribution of Uniformity

CDU < 75%	75% ≤ CDU < 80%	80% ≤ CDU < 85%	85% ≤ CDU < 90%	CDU ≥ 90%
-----------	-----------------	-----------------	-----------------	-----------

Technical Data

- Working pressure range: 1.5-2.5 bar
- Flow rate : 106-226 lph
- Coverage diameter: 10-11 m'
- Recommended filtration: 300 micron (50 mesh)
- **Made of special material for acid/chemical resistance**

Keep in touch!

 info@metzerplas.com  metzer-group.com

