

MZ 400 SERIES

MZ401 1/2"

BSP NPT Male Thread

Vegetables

Nursery Plants

Irrigation and Crop Germination



The MZ401 is a versatile and highly efficient plastic impact sprinkler specifically designed for irrigation and crop germination in vegetables, flowers, and nursery plants. Available in a 1/2" male connection with multiple nozzle sizes, it delivers precision, durability, and ease of use.

HIGHLIGHTS

- Uniform water distribution: Ensures even coverage with single or dual nozzles, of areas up to 14m, making it suitable for a wide range of applications
- Specially designed to resist clogging, enhancing reliability in various soil conditions
- High wind resistance, ensuring uninterrupted irrigation even in windy environments
- Ideal for short irrigation cycles, promoting efficient germination
- Color-coded bayonet nozzles for easier identification, cleaning, and maintenance
- Made of durable, heavy-duty, high-impact plastic that resists corrosion, chemicals, and radiation, ensuring a long lifespan and reducing replacement costs

TECHNICAL DATA

- Pressure range: 2.0-4.0 bar
- Flow rate range: 520-1,500 lph
- Coverage diameter: 20.5-25 m'
- Trajectory angle: 24°, all models
- Available in three models:
S and G for standard pressure.
W for low pressure.

PERFORMANCE TABLE MZ401-G (STANDARD MODEL)

Nozzle Color & Size	Pressure	Coverage Diameter	Flow Rate	Precipitation Rate (mm/hr.) / Spacing (m)				
				10 x 10	10 x 12	12 x 12	12 x 14	14 x 14
mm	bar	m	lph					
Round - Purple Slit - Green 2.5 x 1.8	2.0	22.6	520	5.3	4.4	3.7		
	2.5	22.8	580	5.7	4.8	4		
	3.0	22.8	635	6.3	5.2	4.3		
	3.5	23.0	685	6.3	5.3	4.4		
	4.0	23.0	735	7.4	6.1	5.1		
Round - Orange Slit - Green 2.9 x 1.8	2.0	22.8	610	6.2	5.1	4.3		
	2.5	23.0	680	6.8	5.7	4.7		
	3.0	23.0	745	7.5	6.2	5.2	4.4	
	3.5	23.2	805	8.1	6.7	5.6	4.8	4.1
	4.0	23.2	860	8.7	7.2	6	5.2	4.4
Round - Green Slit - Green 3.2 x 1.8	2.0	23.0	725	7.2	6	5	4.3	3.7
	2.5	23.4	810	8.1	6.7	5.6	4.8	4.1
	3.0	23.8	890	8.9	7.4	6.2	5.3	4.6
	3.5	24.0	960	9.6	8	6.7	5.7	4.9
	4.0	24.0	1025	10.2	8.5	7.1	6.1	5.2
Round - Blue Slit - Green 3.5 x 1.8	2.0	23.4	840	8.4	7	5.8	5	4.3
	2.5	23.8	940	9.4	7.8	6.5	5.6	4.8
	3.0	24.4	1030	10.4	8.6	7.2	6.2	5.3
	3.5	24.8	1110	11.1	9.3	7.7	6.6	5.7
	4.0	25.0	1190	11.9	9.9	8.3	7.1	6.1
Round - Black Slit - Green 4.0 x 1.8	2.0	23.6	1060	10.6	8.8	7.4	6.3	5.4
	2.5	24.0	1180	11.8	9.8	8.2	7	6
	3.0	24.5	1300	13	10.8	9	7.7	6.6
	3.5	25.0	1400	14	11.7	9.7	8.4	7.2
	4.0	25.5	1500	15	12.5	10.4	8.9	7.7

- Performance based on ideal temperature, wind velocity, and humidity conditions
- Tested at a height of 100cm above the ground. Rear Nozzle: 1.8 mm - Green color

PERFORMANCE TABLE MZ411-S (FOR AGRO STAND)

Nozzle	Pressure	Coverage Diameter	Discharge Rate
mm	bar	m	lph
Round - Silver Slit - Green 2.3 x 1.8 	2.0	19.6	460
	2.5	20	510
	3.0	20.4	560
	3.5	20.6	600
	4.0	21	640
Round- Yellow Slit - Green 2.4 x 1.8 	1.0	17.5	384
	1.5	18	474
	2.0	19	534
	2.5	19.5	600
	3.0	20	654
Round - Purple Slit - Green 2.5 x 1.8 	2.0	20	520
	2.5	20.6	580
	3.0	21	640
	3.5	21.4	679
	4.0	21.6	762

* Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

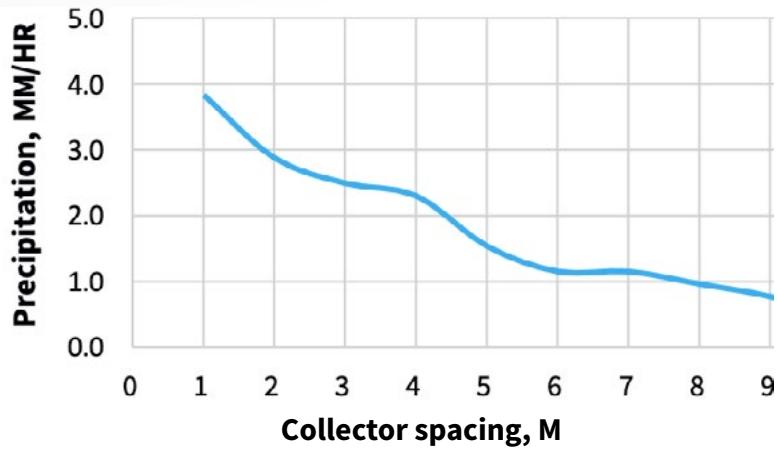
PERFORMANCE TABLE MZ401-W (FOR LOW PRESSURE APPLICATIONS)

Nozzle Color & Size	Pressure	Coverage Diameter	Flow Rate
mm	bar	m'	lph
Round - White Slit - Green  2.0 x 1.8	1.0	17.5	294
	1.5	19.5	348
	2.0	20.5	405
	2.5	21	450
	3.0	21	495
Round - Brown Slit - Green  2.2 x 1.8	1.0	18.5	309
	1.5	20	378
	2.0	21	435
	2.5	21	486
	3.0	21.5	528
Round - Purple Slit - Green  2.5 x 1.8	1.0	18.5	370
	1.5	21	450
	2.0	21.5	520
	2.5	21.5	580
	3.0	22	635

- Performance based on ideal temperature, wind velocity, and humidity conditions
- Tested at a height of 100cm above the ground. Rear Nozzle: 1.8 mm - Green color

DISTRIBUTION CURVE

Nozzle size: 2.2x1.8mm | Pressure: 2.0 bar



UNIFORMITY CHART

Spacing (m)	CU	DU	SC (5%)	PR (mm/hr)
09 x 09	94%	91%	1.1	5.4
10 x 10	91%	84%	1.2	4.4
11 x 11	89%	80%	1.2	3.6
10 x 12	89%	80%	1.3	3.7
12 x 12	89%	81%	1.2	3.1

CODES OF DISTRIBUTION UNIFORMITY

CDU < 75%	75% ≤ CDU < 80%	80% ≤ CDU < 85%	CDU ≥ 90%
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Keep in touch!

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 metzeralias.com



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