

**TORO****Count on it.**

# Impact Sprinklers

## Model AR3 and AR3-LA

### Ag Irrigation



#### Application:

This durable impact sprinkler can be used for either overhead or under-tree watering. It is an excellent choice for orchard applications such as Almonds, Peaches and vineyards or row crops such as Lettuce, Tomatoes and Bell Peppers. The Impact Sprinkler can also be used to irrigate pastures.

#### Features:

- Single or double nozzle (high angle only) configurations
- Spring loaded three-set base washer pack
- Color-coded easy fit snap-in nozzles with built in stream straightening veins
- Durable state of the art engineering plastics ensure long life and high performance



#### Specifications

<b>Size:</b>	1/2" MPT (male pipe thread)
<b>Trajectory:</b>	25 degree high angle, 8.5 degree low angle model
<b>Flows:</b>	Range from 1.15 gpm (4,5 lpm) to 6.87 gpm (26,2 lpm)
<b>Diameters:</b>	High angle, 72.2 feet (22 meters) to 85.3 feet (26 meters) Low angle, 39.4 feet (12 meters) to 65.6 feet (20 meters)
<b>Optimum pressures:</b>	30 psi (2,0 bars) to 45 psi (3,0 bars)
<b>Note:</b>	Resistant to acid down to a pH of 4.0

# Model AR3 and AR3-LA

## High Angle Sprinkler – Model-AR3

25° High Angle, Single Main Nozzle X Blank Rear Nozzle, English (USA) units															
Nozzle Color	White x Black			Gray x Black			Green x Black			Orange x Black			Red x Black		
Nozzle Size (in)	9/64" x Blank			7/64" x Blank			1/8" x Blank			9/64" x Blank			5/32" x Blank		
Pressure (psi)	Flow (gpm)	Dia (ft)	Flow (gpm)	Dia (ft)	Flow (gpm)	Dia (ft)	Flow (gpm)	Dia (ft)	Flow (gpm)	Dia (ft)	Flow (gpm)	Dia (ft)	Flow (gpm)	Dia (ft)	
20	-	-	1.57	72.2	2.02	78.7	2.56	78.7	3.14	78.7	3.14	78.7	3.14	78.7	
30	1.42	72.2	1.93	72.2	2.50	78.7	3.14	78.7	3.84	78.7	3.84	78.7	3.84	78.7	
35	1.53	72.2	2.10	72.2	2.70	78.7	3.40	78.7	4.18	78.7	4.18	78.7	4.18	78.7	
45	1.75	72.2	2.36	72.2	3.06	78.7	3.87	78.7	4.73	78.7	4.73	78.7	4.73	78.7	
50	1.83	72.2	2.49	72.2	3.22	78.7	4.09	78.7	5.01	78.7	5.01	78.7	5.01	78.7	

25° High Angle, Single Main Nozzle x Blank Rear Nozzle, Metric units															
Nozzle Color	White x Black			Gray x Black			Green x Black			Orange x Black			Red x Black		
Nozzle Size (mm)	2,4 x Blank			2,8 x Blank			3,2 x Blank			3,6 x Blank			4,0 x Blank		
Pressure (Bars)	Flow (L/m)	Dia (M)	Flow (L/m)	Dia (M)	Flow (L/m)	Dia (M)	Flow (L/m)	Dia (M)	Flow (L/m)	Dia (M)	Flow (L/m)	Dia (M)	Flow (L/m)	Dia (M)	
1,5	-	-	6,2	22,0	8,0	24,0	10,1	24,0	12,4	24,0	12,4	24,0	12,4	24,0	
2,0	5,3	22,0	7,2	22,0	9,3	24,0	11,7	24,0	14,3	24,0	14,3	24,0	14,3	24,0	
2,5	5,9	22,0	8,1	22,0	10,4	24,0	13,1	24,0	16,1	24,0	16,1	24,0	16,1	24,0	
3,0	6,5	22,0	8,8	22,0	11,4	24,0	14,4	24,0	17,6	24,0	17,6	24,0	17,6	24,0	
3,5	7,0	22,0	9,5	22,0	12,3	24,0	15,6	24,0	19,1	24,0	19,1	24,0	19,1	24,0	

25° High Angle, Double Nozzle, English (USA) units															
Nozzle Color	White x Green			Gray x Yellow			Green x Yellow			Orange x Yellow			Red x Yellow		
Nozzle Size (in)	3/32" x 3/32"			7/64" x 15/128"			1/8" x 15/128"			9/64" x 15/128"			5/32" x 15/128"		
Pressure (psi)	Flow (gpm)	Dia (ft)	Flow (gpm)	Dia (ft)	Flow (gpm)	Dia (ft)	Flow (gpm)	Dia (ft)	Flow (gpm)	Dia (ft)	Flow (gpm)	Dia (ft)	Flow (gpm)	Dia (ft)	
20	2.07	72.2	2.83	72.2	3.29	78.7	4.00	78.7	4.30	78.7	4.30	78.7	4.30	78.7	
30	2.55	72.2	3.49	72.2	4.06	78.7	4.89	78.7	5.29	78.7	5.29	78.7	5.29	78.7	
35	2.78	72.2	3.76	72.2	4.36	78.7	5.32	78.7	5.73	78.7	5.73	78.7	5.73	78.7	
45	3.14	72.2	4.27	72.2	4.94	78.7	6.02	78.7	6.50	78.7	6.50	78.7	6.50	78.7	
50	3.30	72.2	4.51	72.2	5.22	78.7	6.34	78.7	6.87	78.7	6.87	78.7	6.87	78.7	

25° High Angle, Double Nozzle, Metric units															
Nozzle Color	White x Green			Gray x Yellow			Green x Yellow			Orange x Yellow			Red x Yellow		
Nozzle Size (mm)	2,4 x 2,5			2,8 x 3,0			3,2 x 3,0			3,6 x 3,0			4,0 x 3,0		
Pressure (Bars)	Flow (L/m)	Dia (M)	Flow (L/m)	Dia (M)	Flow (L/m)	Dia (M)	Flow (L/m)	Dia (M)	Flow (L/m)	Dia (M)	Flow (L/m)	Dia (M)	Flow (L/m)	Dia (M)	
1,5	8,2	22,0	11,2	22,0	13,0	24,0	15,8	24,0	17,0	24,0	17,0	24,0	17,0	24,0	
2,0	9,5	22,0	13	22,0	15,1	24,0	18,2	24,0	19,7	24,0	19,7	24,0	19,7	24,0	
2,5	10,7	22,0	14,5	22,0	16,8	24,0	20,5	24,0	22,1	24,0	22,1	24,0	22,1	24,0	
3,0	11,7	22,0	15,9	22,0	18,4	24,0	22,4	24,0	24,2	24,0	24,2	24,0	24,2	24,0	
3,5	12,6	22,0	17,2	22,0	19,9	24,0	24,2	24,0	26,2	24,0	26,2	24,0	26,2	24,0	

## Low Angle Sprinkler – Model AR3-LA (Available in Single Main Nozzle X Blank Rear Nozzle only)

8.5° Low Angle, Single Main Nozzle X Blank Rear Nozzle, English (USA) units																		
Nozzle Color	White x Black				Gray x Black				Green x Black				Orange x Black				Red x Black	
Nozzle Size (in)	9/64" x Blank				7/64" x Blank				1/8" x Blank				9/64" x Blank				5/32" x Blank	
Pressure (psi)	Flow (gpm)	Dia (ft)	Stream Height (ft)	Flow (gpm)	Dia (ft)	Stream Height (ft)	Flow (gpm)	Dia (ft)	Stream Height (ft)	Flow (gpm)	Dia (ft)	Stream Height (ft)	Flow (gpm)	Dia (ft)	Stream Height (ft)	Flow (gpm)	Dia (ft)	Stream Height (ft)
20	1.14	39.4	1.7	1.57	39.4	1.8	2.02	39.4	1.8	2.56	39.4	1.8	3.14	39.4	1.8	3.14	39.4	1.9
30	1.42	39.4	1.9	1.93	39.4	2.1	2.50	39.4	2.0	3.14	52.5	2.1	3.84	52.5	2.3	3.84	52.5	2.3
35	1.53	39.4	2.1	2.10	45.9	2.1	2.70	45.9	2.1	3.40	52.5	2.5	4.18	59.1	2.6	4.18	59.1	2.6
45	1.75	39.4	2.1	2.36	45.9	2.2	3.06	52.5	2.5	3.87	59.1	2.6	4.73	65.6	2.8	4.73	65.6	2.8
50	1.83	45.9	2.3	2.49	52.5	2.6	3.22	59.1	2.6	4.09	65.6	3.0	5.01	65.6	3.1	5.01	65.6	3.1

8.5° Low Angle, Single Nozzle X Blank, Metric units																		
Nozzle Color	White x Black				Gray x Black				Green x Black				Orange x Black				Red x Black	
Nozzle Size (mm)	2,4 x Blank				2,8 x Blank				3,2 x Blank				3,6 x Blank				4,0 x Blank	
Pressure (Bars)	Flow (L/m)	Dia (M)	Stream Height (M)	Flow (L/m)	Dia (M)	Stream Height (M)	Flow (L/m)	Dia (M)	Stream Height (M)	Flow (L/m)	Dia (M)	Stream Height (M)	Flow (L/m)	Dia (M)	Stream Height (M)	Flow (L/m)	Dia (M)	Stream Height (M)
1,5	4,5	12,0	0,53	6,2	12	0,55	8,0	12	0,55	10,1	12	0,55	12,4	12	0,58	12,4	12	0,58
2,0	5,3	12,0	0,58	7,2	12	0,63	9,3	12	0,60	11,7	16	0,65	14,3	16	0,70	14,3	16	0,70
2,5	5,9	12,0	0,63	8,1	14	0,65	10,4	14	0,65	13,1	16	0,75	16,1	18	0,80	16,1	18	0,80
3,0	6,5	12,0	0,65	8,8	14	0,68	11,4	16	0,75	14,4	18	0,80	17,6	20	0,85	17,6	20	0,85
3,5	7,0	14,0	0,70	9,5	16	0,80	12,3	18	0,80	15,6	20	0,90	19,1	20	0,95	19,1	20	0,95

Note: Shaded areas denote optimum operating pressure range

## Ordering Information

	Main Nozzle					Rear Nozzle		
	White	Gray	Green	Orange	Red	Green	Yellow	Black
Nozzles (in)	3/32"	7/64"	1/8"	9/64"	5/32"	3/32"	15/128"	Blank
Nozzles (mm)	2,4	2,8	3,2	3,6	4,0	2,5	3,0	Blank
Part Numbers	1015081	1015082	1015083	1015084	1015085	1015069	1015071	1015068

When ordering a single nozzle sprinkler a black rear nozzle is required.

Part number	Description
1015004	AR3 Impact Sprinkler 27° Trajectory (body only)
1015005	AR3-LA Impact Sprinkler, low angle 8.5° Trajectory (body only)
SDA5004	Replacement Bearing Assembly Kit

Nozzles are ordered separately and come unassembled.

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