



## PLASTIC IMPACT SPRINKLERS

- Made From Engineering Grade Plastic for Durability
- Secure ½" Male Threaded Connection Prevents Leakage
- Stainless Steel Spring and Fulcrum Pin for Reliability
- Specially Designed Bayonet Nozzles for Ease of Service
- Available in Low Angle with Standard or Wedge Drive and Part Circle
- Color-Coded Nozzles for Easy Flow Identification



**irritec**<sup>®</sup>  
*don't wait for rain*<sup>®</sup>

## CHARACTERISTICS AND ADVANTAGES:

- Body, arm bearing and nozzles made from engineering grade plastic (Delrin) for long life durability.
- Stainless steel spring and fulcrum pin provide reliable operation.
- 1/2" male threaded for secure connection with no leakage.
- Color coded nozzles for easy flow identification.
- Available with standard drive, wedge drive and part circle options.
- Part circle sprinkler has 25° trajectory and low angle has 12° trajectory.
- Part circle sprinkler operation range from 15° to 345°.
- Recommended filtration: 75 mesh



## Applications:



## TECHNICAL INFORMATION:

| Part Circle - 25° Trajectory Discharge and Coverage Performance |                     |                   |                   |                   |                   |                   |                    |                   |
|---|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|
| Nozzle Pressure   | 7/64" Orange Nozzle |                   | 1/8" Green Nozzle |                   | 9/64" Blue Nozzle |                   | 5/32" Black Nozzle |                   |
|   | Discharge Rate      | Coverage Diameter | Discharge Rate    | Coverage Diameter | Discharge Rate    | Coverage Diameter | Discharge Rate     | Coverage Diameter |
| 25 psi  | 1.95 GPM            | 54.4'             | 2.10 GPM          | 56.0'             | 2.82 GPM          | 57.8'             | 3.50 GPM           | 75.8'             |
| 30 psi  | 2.13 GPM            | 56.0'             | 2.30 GPM          | 57.9'             | 3.09 GPM          | 60.0'             | 3.80 GPM           | 78.8'             |
| 35 psi  | 2.29 GPM            | 57.2'             | 2.48 GPM          | 59.8'             | 3.30 GPM          | 62.1'             | 4.10 GPM           | 80.8'             |
| 40 psi  | 2.44 GPM            | 58.1'             | 2.66 GPM          | 61.6'             | 3.55 GPM          | 64.2'             | 4.40 GPM           | 82.8'             |
| 45 psi  | 2.60 GPM            | 59.9'             | 2.82 GPM          | 63.0'             | 3.76 GPM          | 66.1'             | 4.70 GPM           | 84.8'             |
| 50 psi  | 2.72 GPM            | 61.9'             | 2.97 GPM          | 64.2'             | 3.93 GPM          | 67.6'             | 4.90 GPM           | 85.8'             |

| Low Angle - 12° Trajectory Discharge and Coverage Performance |                     |                   |                     |                   |                   |                   |
|---|---------------------|-------------------|---------------------|-------------------|-------------------|-------------------|
| Nozzle Pressure   | 3/32" Purple Nozzle |                   | 7/64" Orange Nozzle |                   | 1/8" Green Nozzle |                   |
|   | Discharge Rate      | Coverage Diameter | Discharge Rate      | Coverage Diameter | Discharge Rate    | Coverage Diameter |
| 25 psi  | 1.53 GPM            | 49.8'             | 1.95 GPM            | 54.4'             | 2.10 GPM          | 56.0'             |
| 30 psi  | 1.65 GPM            | 51.1'             | 2.13 GPM            | 56.0'             | 2.30 GPM          | 57.9'             |
| 35 psi  | 1.78 GPM            | 52.2'             | 2.29 GPM            | 57.2'             | 2.48 GPM          | 59.8'             |
| 40 psi  | 1.90 GPM            | 53.5'             | 2.44 GPM            | 58.1'             | 2.66 GPM          | 61.6'             |
| 45 psi  | 2.05 GPM            | 55.2'             | 2.60 GPM            | 59.9'             | 2.82 GPM          | 63.0'             |
| 50 psi  | 2.12 GPM            | 57.8'             | 2.72 GPM            | 61.9'             | 2.97 GPM          | 64.2'             |
| Stream Height   | 31"                 |                   | 35"                 |                   | 41"               |                   |

**NOTE:** Performance based on ideal conditions of temperature, wind velocity and humidity.

| Low Angle - 12° Trajectory Wedge Discharge and Coverage Performance |                    |                   |                    |                   |                    |                   |
|---|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|
| Nozzle Pressure   | .071" Green Nozzle |                   | 5/64" White Nozzle |                   | .087" Brown Nozzle |                   |
|   | Discharge Rate     | Coverage Diameter | Discharge Rate     | Coverage Diameter | Discharge Rate     | Coverage Diameter |
| 20 psi  | 0.65 GPM           | 48'               | 0.80 GPM           | 50'               | 0.91 GPM           | 49'               |
| 30 psi  | 0.80 GPM           | 52'               | 0.98 GPM           | 55'               | 1.11 GPM           | 54'               |
| 40 psi  | 0.93 GPM           | 55'               | 1.13 GPM           | 57'               | 1.28 GPM           | 57'               |
| 50 psi  | 1.04 GPM           | 58'               | 1.27 GPM           | 58'               | 1.44 GPM           | 59'               |
| 60 psi  | 1.14 GPM           | 58'               | 1.39 GPM           | 62'               | 1.57 GPM           | 64'               |
| Stream Height   | 31"                |                   | 35"                |                   | 41"                |                   |

| Part Circle Uniformity |     |     |         |     |
|------------------------|-----|-----|---------|-----|
| Spacing                | CU  | DU  | SC (5%) | APR |
| 9' x 9'                | 91% | 91% | 1.1     | 8.5 |
| 10' x 10'              | 90% | 84% | 1.3     | 6.9 |
| 11' x 11'              | 88% | 81% | 1.3     | 5.7 |
| 10' x 12'              | 88% | 82% | 1.3     | 5.8 |
| 12' x 12'              | 89% | 85% | 1.2     | 4.8 |

| Low Angle Uniformity |     |     |         |     |
|----------------------|-----|-----|---------|-----|
| Spacing              | CU  | DU  | SC (5%) | APR |
| 8' x 8'              | 87% | 80% | 1.1     | 7.0 |
| 9' x 9'              | 83% | 76% | 1.1     | 5.6 |
| 8' x 10'             | 83% | 76% | 1.1     | 5.6 |
| 9' x 10'             | 83% | 81% | 1.2     | 5.0 |
| 10' x 10'            | 85% | 82% | 1.2     | 4.5 |



ORDERING INFORMATION:

Part Circle - 25° Trajectory

1/2" Connection - Standard Drive

| Part Number  | Nozzle         | Box Qty | Box Wt  |
|--------------|----------------|---------|---------|
| B7-5029-0764 | 7/64" - Orange | 200     | 34 lbs. |
| B7-5029-0118 | .118" - Red    | 200     | 34 lbs. |
| B7-5029-0018 | 1/8" - Green   | 200     | 34 lbs. |
| B7-5029-0964 | 9/64" - Blue   | 200     | 34 lbs. |
| B7-5029-0532 | 5/32" - Black  | 200     | 34 lbs. |



Low Angle - 12° Trajectory

1/2" Connection - Standard Drive

| Part Number  | Nozzle         | Box Qty | Box Wt  |
|--------------|----------------|---------|---------|
| B7-5012-0332 | 3/32" - Purple | 200     | 36 lbs. |
| B7-5012-0764 | 7/64" - Orange | 200     | 36 lbs. |
| B7-5012-0018 | 1/8" - Green   | 200     | 36 lbs. |



Low Angle - 12° Trajectory

1/2" Connection - Wedge Drive

| Part Number   | Nozzle        | Box Qty | Box Wt  |
|---------------|---------------|---------|---------|
| B7-5012-W0071 | .071" - Green | 200     | 34 lbs. |
| B7-5012-W0564 | 5/64" - White | 125     | 30 lbs. |
| B7-5012-W0087 | .087" - Brown | 200     | 34 lbs. |



Sprinkler Nozzles

| Part Number  | Description                    |
|--------------|--------------------------------|
| B7-5012N0332 | 3/32" Nozzle Purple (12° Only) |
| B7-5012N0764 | 7/64" Nozzle Orange            |
| B7-5012N0118 | .118" Nozzle Red               |
| B7-5012N0018 | 1/8" Nozzle Green              |
| B7-5023N0964 | 9/64" Nozzle Blue              |
| B7-5023N0532 | 5/32" Nozzle Black             |
| B7-5012PLUG  | Black Plug                     |



## IRRITEC SYSTEM COMPONENTS:

Irritec offers the following system components - Polyethylene (PE) tubing, Filters, Valves, Air Vents, and Pressure Regulators. Refer to the Irritec Price List for additional components, ordering information and pricing.



**Polyethylene (PE) tubing** is manufactured with state of the art extrusion equipment for high quality and durability.



**Filters** offer the best protection for every irrigation system. Choose from sand media, stainless steel screen and disc filters.



**Valves** include PVC, Brass and Plastic Control all of which are manufactured from high quality materials and offer superior reliability.



**Air Vents** provide air relief for maximum system protection. **Pressure Regulators** are known for accuracy and reliable performance.