



**3/4" Full Circle 75-27**

### Materials

|                          |  |
|--------------------------|--|
| Body & Arm               | Bronze   |
| Bearing Sleeve & Nipple  | Brass  |
| Springs & Pivot Pin      | Stainless Steel                                  |
| Washers                  | Neoprene Rubber<br>/PTFE/ High<br>performance PE |
| Trip Mechanism (75-27PC) | Stainless Steel                                  |

### Applications

- Used on wheel lines, hard lines, solid set, permanent set, and mechanically moved systems such as center pivot systems.
- Available with steam-straightening vanes for longer throw where strong wind is prevalent.

### Features & Benefits

- Heavy duty bearing stack giving longer life.
- Bottom black rubber washers have higher hardness than most, extending reliability and life.
- True bronze body and arm giving malleability and strength against cracking or breaking.
- Brass nipple and bearing sleeve for durability.
- The middle bushing is made of ultra high molecular plastic compound for considerably longer life than most on high operating pressure.
- The bottom spring is specially made for this sprinkler to run smoother to help with rotational speed and uniformity.
- The dust cap is made of poly-acetate material unlike some using rubber washers, it rotates with the brass body rather than against it, extending its life.
- The washer underneath the dust cap is also made of ultra high molecular plastic material for strength.
- The top spring has two notches to position the spring which allows to change tension and rotational speed.

| 3/4" Full Circle 75-27 Single Nozzle |            |     |            |     |             |     |            |     |             |     |
|--------------------------------------|------------|-----|------------|-----|-------------|-----|------------|-----|-------------|-----|
| Nozzle Pressure                      | 9/64"xPlug |     | 5/32"xPlug |     | 11/64"xPlug |     | 3/16"xPlug |     | 13/64"xPlug |     |
|                                      | gpm        | ft. | gpm        | ft. | gpm         | ft. | gpm        | ft. | gpm         | ft. |
| 35                                   | 3.45       | 86  | 4.20       | 88  | 5.16        | 92  | 6.08       | 96  | 7.12        | 98  |
| 40                                   | 3.62       | 86  | 4.55       | 88  | 5.48        | 94  | 6.45       | 96  | 7.65        | 100 |
| 45                                   | 3.88       | 88  | 4.72       | 90  | 5.76        | 96  | 6.87       | 98  | 8.10        | 102 |
| 50                                   | 4.16       | 90  | 5.05       | 92  | 6.13        | 96  | 7.25       | 100 | 8.54        | 104 |
| 55                                   | 4.25       | 90  | 5.26       | 94  | 6.33        | 98  | 7.66       | 102 | 8.92        | 106 |
| 60                                   | 4.45       | 92  | 5.55       | 96  | 6.65        | 100 | 7.94       | 104 | 9.32        | 108 |
| 65                                   | 4.66       | 94  | 5.80       | 98  | 6.95        | 102 | 8.22       | 106 | 9.75        | 110 |
| 70                                   | 4.82       | 96  | 5.95       | 100 | 7.24        | 104 | 8.54       | 108 | 10.00       | 112 |
| 75                                   | 5.05       | 96  | 6.18       | 102 | 7.44        | 104 | 8.85       | 110 | 10.45       | 114 |
| 80                                   | 5.18       | 98  | 6.37       | 102 | 7.78        | 106 | 9.16       | 110 | 10.75       | 116 |

Note: Spray diameter in feet.

# V-Rain® Metal Sprinklers

| 3/4" Full Circle 75-27 Dual Nozzle |             |     |             |     |              |     |             |     |              |     |
|------------------------------------|-------------|-----|-------------|-----|--------------|-----|-------------|-----|--------------|-----|
| Nozzle Pressure                    | 9/64"x3/32" |     | 5/32"x3/32" |     | 11/64"x3/32" |     | 3/16"x3/32" |     | 13/64"x3/32" |     |
| psi                                | gpm         | ft. | gpm         | ft. | gpm          | ft. | gpm         | ft. | gpm          | ft. |
| 35                                 | 4.99        | 86  | 5.76        | 88  | 6.65         | 92  | 7.54        | 96  | 8.66         | 98  |
| 40                                 | 5.32        | 86  | 6.13        | 88  | 7.12         | 94  | 8.13        | 96  | 9.34         | 100 |
| 45                                 | 5.65        | 88  | 6.54        | 90  | 7.45         | 96  | 8.54        | 98  | 9.97         | 102 |
| 50                                 | 5.95        | 90  | 6.87        | 92  | 7.96         | 96  | 9.06        | 100 | 10.35        | 104 |
| 55                                 | 6.17        | 90  | 7.15        | 94  | 8.24         | 98  | 9.45        | 102 | 10.82        | 106 |
| 60                                 | 6.45        | 91  | 7.46        | 96  | 8.65         | 100 | 9.96        | 104 | 11.34        | 108 |
| 65                                 | 6.78        | 94  | 7.85        | 98  | 8.96         | 102 | 10.25       | 106 | 11.75        | 110 |
| 70                                 | 6.96        | 96  | 8.14        | 100 | 9.34         | 104 | 10.75       | 108 | 12.16        | 112 |
| 75                                 | 7.24        | 96  | 8.36        | 102 | 9.65         | 104 | 11.08       | 110 | 12.62        | 114 |
| 80                                 | 7.54        | 98  | 8.77        | 102 | 10.08        | 106 | 11.55       | 112 | 13.05        | 116 |

Note: Spray diameter in feet.



3/4" Part Circle 75-27PC

## Applications

- Most commonly used in agricultural permanent solid-set systems, wheel lines at line ends or corner location.
- In landscaping and horticulture where application must be limited to planted areas away from walks and roads.

## Features & Benefits

- Part circle converts easily to full circle using the trip pin.
- Single or dual nozzles for multiple uses.
- 27° trajectory angle for longer throw.
- Chemical, corrosion and grit resistant parts.
- Body and arm made of bronze alloy giving malleability and strength against cracking or breaking.
- Stainless steel springs and trip mechanism parts for extended life.

| Sprinkler Part #s    |                   |
|----------------------|-------------------|
| 3/4" 27° Full Circle | 75-27HF-XXXX-XXXX |
| 3/4" 27° Part Circle | 75-27PC-XXXX-XXXX |

Example: 3/4" Sprinkler with 11/64" x 3/32" Nozzle

75-27HF-1164x0332

Example: 3/4" Sprinkler with 5/32" x Plug

75-27HF-0532xPlug

| 3/4" Part Circle 75-27PC |              |     |               |     |              |     |
|--------------------------|--------------|-----|---------------|-----|--------------|-----|
| Nozzle Pressure          | 3/16" x 1/8" |     | 13/64" x 1/8" |     | 7/32" x 1/8" |     |
| psi                      | gpm          | ft. | gpm           | ft. | gpm          | ft. |
| 30                       | 7.60         | 96  | 9.21          | 100 | 9.80         | 102 |
| 35                       | 8.49         | 98  | 9.60          | 102 | 10.80        | 103 |
| 40                       | 9.10         | 99  | 10.70         | 104 | 11.30        | 106 |
| 45                       | 9.60         | 101 | 11.21         | 107 | 12.25        | 108 |
| 50                       | 10.49        | 102 | 11.70         | 109 | 12.75        | 110 |
| 55                       | 10.90        | 106 | 12.40         | 110 | 13.29        | 113 |
| 60                       | 11.35        | 100 | 12.85         | 111 | 13.85        | 116 |

Note: Spray diameter in feet.

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