



50
YEARS OF INNOVATION

2022 PRODUCT CATALOG



AGRICULTURE

ENVIRONMENTAL

GREEN INDUSTRY

CROP SPECIFIC



2022 marks 50 years since the inception of Nelson Irrigation Corporation. Each day, we strive to find new water application solutions and perfect those that helped make a name for us. We are grateful to be part of this amazing industry and be in business with the best distributors, dealers, growers and irrigators out there.

We are people with a passion, creating products with a purpose.

SOLVING PROBLEMS ONE APPLICATION AT A TIME

WATER
QUALITY/QT.
SOLUTIONS

LAND
& SOIL
SOLUTIONS

CROP
SPECIFIC
SOLUTIONS

LOW
PRESSURE
SOLUTIONS

LABOR
SAVING
SOLUTIONS

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MECHANIZED IRRIGATION

FROM PIVOT POINT TO END GUN

THE PACKAGE IS COMPLETE

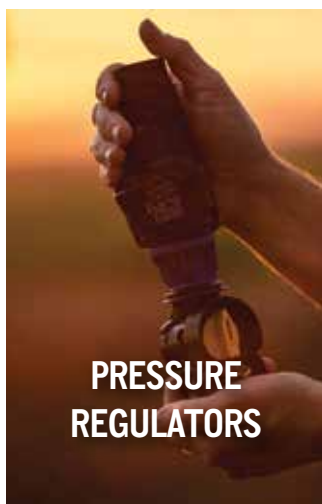
Efficiency and effectiveness are at the heart of this superior center pivot irrigation package.



**CONTROL
VALVES**



**PIVOT
SPRINKLERS**



**PRESSURE
REGULATORS**



ACCESSORIES



**END OF PIVOT
SOLUTIONS**



PROBLEM

"I have major ruts left behind by the wheels."

SOLUTION

"Deep wheel tracks are detrimental to the pivot and makes harvesting difficult. Try the PC-R3030 on boombacks to reduce excessive watering in the wheel tracks."

 **Pivot Mapper™**
by Nelson Irrigation

Add Pivots
Manage Data
Share Knowledge

Simply. Connected.

pivotmapper.com

A FAMILY OF PRODUCTS FOR A MULTITUDE OF NEEDS



ROTATOR® PAGE 8

The **Rotator** features the greatest throw distance available on drop tubes. The wide water pattern from rotating streams equates to lower average application rates, longer soak time and reduced runoff. More overlap from adjacent sprinklers improves uniformity.



PAGE 8

ACCELERATOR

The **Accelerator** is an economical sprinkler for use at lower pressures. It has an excellent combination of throw radius and droplet size to help prevent runoff and soil sealing. Rotates faster than a Rotator, slower than a Spinner.



PAGE 10

SPINNER

The **Spinner** utilizes a free-spinning action to produce a gentle, rain-like water pattern. Designed for more sensitive crops and soils, low instantaneous application rates help maintain proper soil structure.



PAGE 10

ORBITOR

The **Orbitor** features technology that eliminates the struts of a sprinkler body to provide outstanding uniformity and optimal droplets at low operating pressures. Designed with an innovative, bracketless assembly, debris hang up and water pattern misting common to conventional sprinklers are mitigated.



PAGE 14

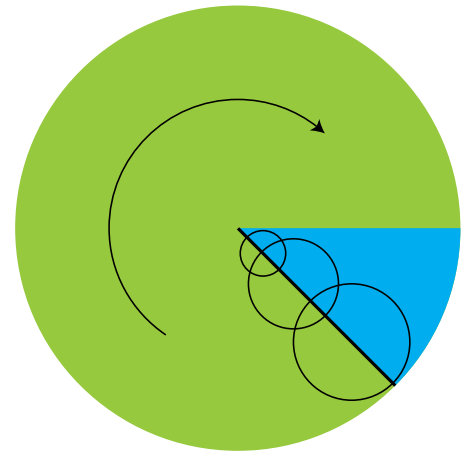
SPRAYHEAD

The **Sprayhead** is a fixed spray designed with future needs in mind. As irrigation requirements change throughout the season, the Sprayhead features a flip-over cap to change spray patterns. It's easily convertible to LEPA or other sprinkler types.

ALL SPRINKLERS ABOVE AVAILABLE WITH 3TN OR 3NV NOZZLE CONFIGURATION.

WHY ALL THE OPTIONS?

DIFFERENT JOBS REQUIRE DIFFERENT TOOLS. TELL US THE CHALLENGES YOU FACE ON YOUR FARM (VARIABLE SOILS, CROP, SLOPE, FLOW RESTRICTIONS, WATER QUALITY) AND WE'LL IDENTIFY A SOLUTION JUST FOR YOU.



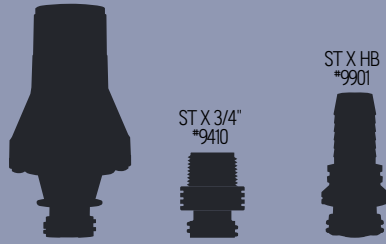
PROBLEM

"I use wastewater and am having major plugging issues."














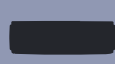
"Try the 3NV nozzle with the 03030 Orbitor. Easy nozzle flush and bracketless sprinkler design resist trash hangup!"

MODULARITY



SQUARE THREAD
REGULATORS & ADAPTERS

| | |
|--|---|
| <p>#9461-XXX 3TN NOZZLE FOR 3000 SERIES</p>  | <p>#12035-XXX 3NV NOZZLE FOR 3030 SERIES</p>  |
|--|---|

| | | | | | | |
|--|---|--|--|---|--|---------------|
|  R3000/S3000 *9412 |  A3000/D3000 *9428 |  T3000 *10419 |  R3030/S3030 *12034 |  A3030/D3030 *12346 |  U3030 *12381 | BODIES |
|    | PLATES | | | | | |
|    | CAPS | | | | | |

ORBITOR CONFIGURATION
SHOWN ON PAGES 10-11.

3TN




14 15 16

ODD NUMBERS HAVE
COLOR BOX AROUND NUMBER.

3NV




ODD NUMBERS HAVE
SCALLOPED EDGE.

The nozzle sizing system is based on 128th inch increments, e.g., 3TN/3NV Nozzle #26 has an orifice diameter of 26/128th inches while 3TN/3NV Nozzle #27 has an orifice diameter of 27/128th inches. For 3TN Nozzles, the odd-numbered nozzles have a color box around the number marking. This color box denotes the color of the next larger nozzle size. The odd-numbered 3NV Nozzles have a scalloped edge rather than secondary coloring.

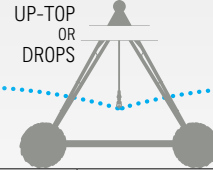
MECHANIZED IRRIGATION / PIVOT SPRINKLERS

R

R3030 ROTATOR®

SEE PAGE 9 FOR PART-CIRCLE R3000 & PART-CIRCLE R3030.

10-50 psi (0.7-3.4 bar)
50-74' (15.2-22.6 m)



| | | | | | | |
|--|--|--|--|--|--|--|
| Max. *50 Noz. Min. *14 Noz. @ 30 psi (2.0 bar) *16 for low press. | Max. *50 Noz. Min. *14 Noz. @ 15 psi (1.0 bar) | Max. *50 Noz. Min. *14 Noz. @ 30 psi (2.0 bar) *16 for low press. | Max. *50 Noz. Min. *14 Noz. @ 15 psi (1.0 bar) | Max. *50 Noz. Min. *14 Noz. @ 15 psi (1.0 bar) | Max. *50 Noz. Min. *14 Noz. @ 15 psi (1.0 bar) | Max. *50 Noz. Min. *12 Noz. @ 10 psi (0.7 bar) |
| BLUE UP-TOP U4-8° | WHITE UP-TOP | GREEN D4-8° | RED D6-12° | ORANGE MULTI-TRAJECTORY | BROWN MULTI-TRAJECTORY | OLIVE LOW PRESSURE |
| | | | | | | |
| Plate #8817 Cap/Plate Assy* *11969-001 | Plate #10749 Cap/Plate Assy* *11969-002 | Plate #8844 Cap/Plate Assy* *11969-003 | Plate #8839 Cap/Plate Assy* *11969-004 | Plate #10598 Cap/Plate Assy* *11969-005 | Plate #10681 Cap/Plate Assy* *11969-006 | Plate #12360 Cap/Plate Assy* *11969-007 |
| Cap/Plate/ 3030 Body Assy* *12471-001 | Cap/Plate/ 3030 Body Assy* *12471-002 | Cap/Plate/ 3030 Body Assy* *12471-003 | Cap/Plate/ 3030 Body Assy* *12471-004 | Cap/Plate/ 3030 Body Assy* *12471-005 | Cap/Plate/ 3030 Body Assy* *12471-006 | Cap/Plate/ 3030 Body Assy* *12471-007 |
| 20-50 psi (1.4-3.4 bar) | 15-30 psi (1.0-2.0 bar) | 20-50 psi (1.4-3.4 bar) | 15-30 psi (1.0-2.0 bar) | 15-30 psi (1.0-2.0 bar) | 15-30 psi (1.0-2.0 bar) | 10-15 psi (0.7-1.0 bar) |

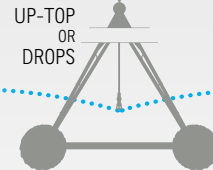
*Part numbers do not include the Adapter & Nozzle that are required for a complete Assembly.

8

A

A3030 ACCELERATOR

6-15 psi (0.4-1 bar)
30-55' (9.1-16.8 m)



OPTIONAL SPRINKLER CONVERTER #11472



EASILY CONVERT FROM ACCELERATOR TO SPRAYHEAD TO BUBBLER

| | | | |
|---|---|---|--|
| Max. *50 Noz. Min. *10 Noz. @ 10 psi (0.7 bar) *18 @ 6 psi (0.4 bar) | Max. *50 Noz. Min. *10 Noz. @ 15 psi (1.0 bar) *12 @ 10 psi (0.7 bar) *18 @ 6 psi (0.4 bar) | Max. *50 Noz. Min. *10 Noz. @ 15 psi (1.0 bar) *12 @ 10 psi (0.7 bar) *18 @ 6 psi (0.4 bar) | |
| MAROON | GOLD | NAVY UP-TOP | |
| | | | |
| Plate #9906 Cap/Plate Assy* *11498-001 | Cap/Plate Assy* *11498-002 | Cap/Plate Assy* *11498-003 | |
| Cap/Plate/ 3030 Body Assy* *12473-001 | Cap/Plate/ 3030 Body Assy* *12473-002 | Cap/Plate/ 3030 Body Assy* *12473-003 | #10402 MAROON ACCELERATOR CAP |
| 6-15 psi (0.4-1.0 bar) | 6-15 psi (0.4-1.0 bar) | 6-15 psi (0.4-1.0 bar) | |

*Part numbers do not include the Adapter & Nozzle that are required for a complete Assembly.

Rotator® & Accelerator sprinklers come in the 3000 Series (with 3TN nozzle) or 3030 Series (with 3NV nozzle).

Common Rotator® Parts

R3000

R3030

| DESCRIPTION | 3/4" MNPT x Square Thread Adapter | Rotator Plates | Rotator Cap/Motor | Rotator Cap/Plate Assy | 3TN Nozzle (see pg. 7) | R3000/S3000 Body | R3000 Components Total** | R3000 Cap/Plate Body Assy | 3NV Nozzle (see pg. 7) | R3030/S3030 Body | R3030 Components Total** | R3030 Cap/Plate Body Assy |
|-------------|-----------------------------------|----------------|-------------------|------------------------|------------------------|------------------|------------------------------|---------------------------|------------------------|------------------|------------------------------|---------------------------|
| PART NO. | 9410 | (pg. 8) | 9539 | 11969-xxx | 9461-xxx | 9412 | (including nozzle & adapter) | 11970-xxx | 12035-xxx | 12034 | (including nozzle & adapter) | 12471-xxx |
| BOX | 13x13x17" | 12x12x9" | 12x12x9" | 12x12x9" | 12x12x11" | 13x13x17" | | 13x13x17" | 12x12x11" | 13x13x17" | | 13x13x17" |
| QTY/BOX | 900 | 600 | 300 | 200 | 700 (100/bag) | 300 | | 200 | 500 (100/bag) | 150 | | 125 |
| LBS/BOX | 40 | 13 | 16 | 15 | 12 | 16 | | 25 | 14 | 19 | | 25 |

**COMPONENTS TOTAL INCLUDES ADAPTER, PLATE, CAP/MOTOR, NOZZLE (3TN OR 3NV) AND BODY (R3000 OR R3030).



R3000 ROTATOR®

Cap/Plate/**3000** Series Body Assy (less adapter & nozzle) *11970-xxx (Use -xxx from table on page 10 for plate specifications.)

*9539 Blue Rotator Cap



| DESCRIPTION | PC-Rotator Cap/Plate Assy Same for PC-R3000 & PC-R3030 | PC-R3000 (less nozzle & adapter) | PC-R3030 (less nozzle & adapter) |
|-------------|---|-------------------------------------|-------------------------------------|
| PART NO. | 11075-xxx | 10843-xxx | 12651-xxx |
| | (-001 black, -002 white, -003 tan) | (-001 black, -002 white, -003 tan) | (-001 black, -002 white, -003 tan) |
| BOX | 12x12x9" | 13x13x17" | 14x14x18" |
| QTY/BOX | 200 | 150 | 100 |
| LBS/BOX | 15 | 23 | 26 |

Common Accelerator Parts

A3000

A3030

| DESCRIPTION | 3/4" MNPT x Square Thread Adapter | Plates | Accelerator Cap/Motor | Accelerator Cap/Plate Assy | 3TN Nozzle (see pg. 7) | A3000/D3000 Body | A3000 Components Total** | A3000 Cap/Plate Body Assy | 3NV Nozzle (see pg. 7) | A3030/D3030 Body | A3030 Components Total** | A3030 Cap/Plate Body Assy |
|-------------|-----------------------------------|----------|-----------------------|----------------------------|------------------------|------------------|------------------------------|---------------------------|------------------------|------------------|------------------------------|---------------------------|
| PART NO. | 9410 | (pg. 8) | 10402 | 11498-xxx | 9461-xxx | 9428 | (including nozzle & adapter) | 11973-xxx | 12035-xxx | 12346 | (including nozzle & adapter) | 12473-xxx |
| BOX | 13x13x17" | 12x12x9" | 12x12x9" | 12x12x11" | 12x12x11" | 14x14x13" | | 13x13x17" | 12x12x11" | 14x14x17" | | 14x14x17" |
| QTY/BOX | 900 | 1000 | 200 | 300 | 700 (100/bag) | 400 | | 300 | 500 (100/bag) | 200 | | 150 |
| LBS/BOX | 39 | 12 | 10 | 16 | 12 | 16 | | 27 | 14 | 25 | | 26 |

**COMPONENTS TOTAL INCLUDES ADAPTER, PLATE, CAP/MOTOR, NOZZLE (3TN OR 3NV) AND BODY (A3000 OR A3030).



A3000 ACCELERATOR

Cap/Plate/**3000** Series Body Assy (less adapter & nozzle) *11973-xxx (Use -xxx from table on page 10 for plate specifications.)

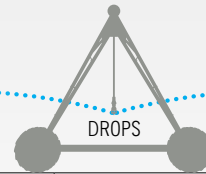
*10402 Maroon Accelerator Cap

| DESCRIPTION | Sprinkler Converter | See Pages 16-17 |
|-------------|---------------------|-----------------|
| PART NO. | 11472 | |
| BOX | 13x13x17" | |
| QTY/BOX | 500 | |
| LBS/BOX | 22 | |

S

S3030 SPINNER

10-20 psi (0.7-1.4 bar)
42-54' (12.8-16.5 m)



Part Circle
S3030 Spinner
#12650

*14-50 NOZ.

10-20 psi
(0.7-1.4 bar)

| | | | |
|--|---|--|---|
| Max. *50 Noz. Min. *14 Noz. @ 15 psi (1.0 bar) *18 for low press. | Max. *50 Noz. Min. *14 Noz. @ 15 psi (1.0 bar) *16 for low press. | Max. *50 Noz. Min. *14 Noz. @ 15 psi (1.0 bar) *16 for low press. | Max. *15 Noz. Min. *10 Noz. @ 10 psi (0.7 bar) |
| RED D6-12°  | PURPLE D6-20°  | YELLOW D8-21°  | BEIGE** SMALL NOZZLE  <small>*10-15 nozzle. Ultra-low flow.</small> |
| Plate #8839 Cap/Plate Assy* #11971-001 Cap/Plate/ 3030 Body Assy* #12472-001 | Plate #9583 Cap/Plate Assy* #11971-002 Cap/Plate/ 3030 Body Assy* #12472-002 | Plate #10361 Cap/Plate Assy* #11971-003 Cap/Plate/ 3030 Body Assy* #12472-003 | Plate #11013 Cap/Plate Assy* #11971-004 Cap/Plate/ 3030 Body Assembly* #12472-004 |
| 10-20 psi (0.7-1.4 bar) | 10-20 psi (0.7-1.4 bar) | 10-20 psi (0.7-1.4 bar) | 10-15 psi (0.7-1.0 bar) |

*Part numbers do not include the Adapter & Nozzle that are required for a complete Assembly.

**The beige plate should be used on flexible drops, or those with at least 1 ft. (0.3 m) of hose. The smaller nozzles will be more susceptible to plugging.

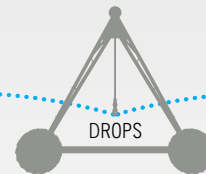


10

O

O3030 ORBITOR

6-20 psi (0.4-1.4 bar)
36-60' (11.0-18.3 m)



IMPORTANT MOUNTING INFORMATION:

1. The Orbitor requires a minimum of 2' (0.6 m) of reinforced flexible hose in the mounting assembly.
2. When using the Orbitor with the weighted cover, do not use any other conventional weight styles instead of, or in addition to, the Orbitor weight.
3. When using the Orbitor with the plastic cover, an inline weight is required. Use Nelson Slim/Coil Weights (page 21) or 3/4" NPT threaded weights. Slip weights require the Nelson Clamp Saver (page 21).
4. Always be sure that the weights are securely tightened.
5. Always be sure that all components in the mounting assembly and the Orbitor are securely tightened. Use new* Nelson pressure regulators and fittings.
6. If 3/4" ball valves are used, use metal nipples or Nelson P/N-12291 plastic nipples.

*New, patented single-strut seat manufactured after 2007.

| | | |
|--|---|--|
| Min. *11 Noz. @ 10 psi *16 @ 6 psi | Min. *11 Noz. @ 10 psi *16 @ 6 psi | Min. *11 Noz. @ 10 psi *16 @ 6 psi |
| BLACK STANDARD ANGLE  | BLUE LOW ANGLE  | PURPLE SMALL DROPLET  |
| 03000 Assy w/ Weight #11488-101 03000 Assy w/ Plastic Cover #11488-301 | 03030 Assy w/ Weight #12317-102 03030 Assy w/ Plastic Cover #12317-302 | 03030 Assy w/ Weight #12317-103 03030 Assy w/ Plastic Cover #12317-303 |
| 6-20 psi (0.4-1.4 bar) | 6-20 psi (0.4-1.4 bar) | 6-20 psi (0.4-1.4 bar) |



ORBITOR WITH
PLASTIC COVER



Spinner & Orbitor sprinklers come in the 3000 Series (with 3TN nozzle) or 3030 Series (with 3NV nozzle).

Common Spinner Parts

S3000

S3030

| DESCRIPTION | 3/4" MNPT x Square Thread Adapter | Spinner Plates | Spinner Cap/Motor | Spinner Cap/Plate Assy | 3TN Nozzle (see pg. 7) | R3000/S3000 Body | S3000 Components Total** | S3000 Cap/Plate Body Assy | 3NV Nozzle (see pg. 7) | R3030/S3030 Body | S3030 Components Total** | S3030 Cap/Plate Body Assy |
|-------------|-----------------------------------|----------------|-------------------|------------------------|------------------------|------------------|---------------------------------|---------------------------|------------------------|------------------|---------------------------------|---------------------------|
| PART NO. | 9410 | pg. 10 | 9540 | 11971-xxx | 9461-xxx | 9412 | (including nozzle & adapter) | 11972-xxx | 12035-xxx | 12034 | (including nozzle & adapter) | 12472-xxx |
| BOX | 13x13x17" | 12x12x9" | 12x12x9" | 12x12x9" | 12x12x11" | 13x13x17" | | 13x13x17" | 12x12x11" | 13x13x17" | | 13x13x17" |
| QTY/BOX | 900 | 600 | 300 | 200 | 700 (100/bag) | 300 | | 200 | 500 (100/bag) | 150 | | 125 |
| LBS/BOX | 40 | 13 | 13 | 12 | 12 | 16 | | 22 | 14 | 19 | | 23 |

**COMPONENTS TOTAL INCLUDES ADAPTER, PLATE, CAP/MOTOR, NOZZLE (3TN OR 3NV) AND BODY (S3000 OR S3030).



S3000 SPINNER

Cap/Plate/**3000** Series Body Assy (less adapter & nozzle) ***11972-xxx** (Use -xxx from table on page 12 for plate specifications.)

*9540 Gray Spinner Cap

| DESCRIPTION | PC-Spinner Cap/Plate Assy Same for PC-S3000 & PC-S3030 | PC-S3000 (less nozzle & adapter) | PC-S3030 (less nozzle & adapter) |
|-------------|---|-------------------------------------|-------------------------------------|
| PART NO. | 10949-001 | 9926-001 | 12650 |
| BOX | 12x12x9" | 13x13x17" | 14x14x18" |
| QTY/BOX | 200 | 150 | 100 |
| LBS/BOX | 13 | 23 | 26 |

03000 w/ Weight

03000 Plastic

03030 w/ Weight

03030 Plastic

| DESCRIPTION | 3/4" MNPT x Square Thread Adapter | 03000 Body & Weight | 03000 Components Total* | 3TN Nozzle (see pg. 7) | 03000 Body w/ Plastic Cover | 03000 Components Total** | 03030 Body & Weight | 03030 Components Total* | 3NV Nozzle (see pg. 7) | 03030 Body w/ Plastic Cover | 03030 Components Total** |
|-------------|-----------------------------------|---------------------|---|------------------------|-----------------------------|--|---------------------|---|------------------------|-----------------------------|--|
| PART NO. | 9410 | 11488-1xx | (WEIGHTED VERSION including nozzle & adapter) | 9461-xxx | 11488-3xx | (PLASTIC COVER VERSION including nozzle & adapter) | 12317-1xx | (WEIGHTED VERSION including nozzle & adapter) | 12035-xxx | 12317-3xx | (PLASTIC COVER VERSION including nozzle & adapter) |
| BOX | 13x13x17" | 14x14x10" | | 12x12x11" | 14x14x10" | | 14x14x13" | | 12x12x11" | 14x14x13" | |
| QTY/BOX | 900 | 24 | | 700 (100/bag) | 24 | | 24 | | 500 (100/bag) | 24 | |
| LBS/BOX | 40 | 31 | | 12 | 12 | | 34 | | 14 | 15 | |

**COMPONENTS TOTAL INCLUDES ADAPTER, BODY (WEIGHTED OR PLASTIC), AND NOZZLE (3TN OR 3NV).



03000 ORBITOR

CLAMP SAVER

USE CLAMP SAVER WHEN INSTALLING ORBITORS ON A PIVOT WITH EXISTING POLY SLIP WEIGHTS. This simple device placed over clamps on drop hose beneath poly slip weights protects the clamp from the "action" or natural vibration on Orbitor systems. This is a great solution when an irrigator is retrofitting a pivot that already has slip weights with the Orbitor sprinkler. Only the plastic version (6-10 psi / 0.4-0.7 bar) 03000 or 03030 can be used with poly slip weights.

| DESCRIPTION | CLAMP SAVER |
|-------------|-------------|
| PART NO. | 12107 |
| BOX | 12x12x11" |
| QTY/BOX | 300 |
| LBS/BOX | 18 |



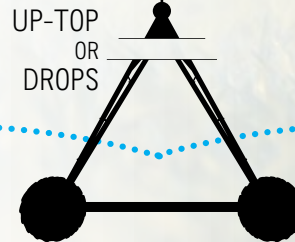
ORBITOR FX



FIELD-PROVEN, OFF-AXIS ORBITOR TECHNOLOGY PROVIDES A RANDOM DROPLET PATTERN IN A COMPACT, LOW-VIBRATION DESIGN.

UP-TOP 03030FX
WHITE PLATE/CAP
AND R/S3030 BODY
ASSY #13209-001

MAX. **52 FT** (15.8 M) WET-
TED **DIAMETER** (PRELIM-
INARY) @ 10 PSI (0.7 BAR),
12 FT (3.7 M) MOUNTING
HEIGHT



12

- Engineered plate grooves reduce mist
- Low wind-fighting trajectory
- 10 psi recommended (*12-50 nozzles); 6 psi optional (*16-50 nozzles)
- For up-top application, use galvanized (maximum riser of 4 ft (1.2 M)) or proven plastic nipples (no pvc nipples).
- Allowable drop configurations include galvanized steel drops, semi-rigid polyethylene, and flexible hose (slip weights not allowed without clamp saver). Do not use Nelson 1* modular weight.
- Orbitor FX is only available with 3NV nozzle/3030 series.

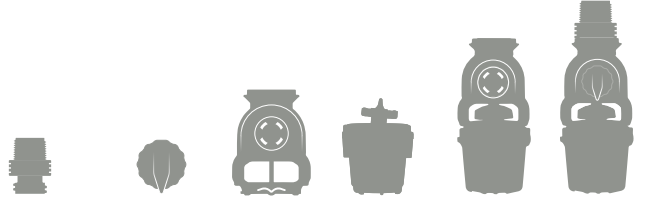
| DESCRIPTION | 3/4" MNPT x Square Thread Adapter | 3NV Nozzle (see pg. 7) | Body | 03030 FX Cap, Plate, Assy | 03030 FX Cap, Plate, Body Assy | 03030FX Components Total** | 3/4" x 3/4" MNPT Nipple |
|-------------|-----------------------------------|------------------------|-----------|---------------------------|--------------------------------|------------------------------|-------------------------|
| PART NO. | 9410 | 12035-xxx | 12034 | 13007-001 | 13209-001 | (including nozzle & adapter) | 12291 |
| BOX | 13x13x17" | 12x12x11" | 13x13x17" | 13x13x13" | 13x13x17" | | 12x12x18" |
| QTY/BOX | 900 | 500 (100/bag) | 150 | 75 | 75 | | 400 |
| LBS/BOX | 40 | 14 | 19 | 22 | 24 | | 20 |





NEW!
 03030FX FOR DROPS
 BLACK PLATE/CAP
 AND R/S3030 BODY
 ASSY #13210-001

MAX. **48 FT** (14.6 M) WETTED
DIAMETER (PRELIMINARY) @
 10 PSI (0.7 BAR), 6 FT (1.8 M)
 MOUNTING HEIGHT

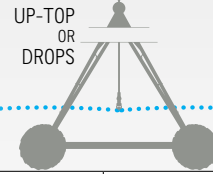


| DESCRIPTION | 3/4" MNPT x Square Thread Adapter | 3NV Nozzle (see pg. 7) | Body | 03030 FX Cap, Plate Assy | 03030 FX Cap, Plate, Body Assy | 03030FX Components Total** |
|-------------|---|---------------------------|-----------|--------------------------------|--------------------------------------|------------------------------------|
| PART NO. | 9410 | 12035-xxx | 12034 | 13071-001 | 13210-001 | (including nozzle & adapter) |
| BOX | 13x13x17" | 12x12x11" | 13x13x17" | 13x13x13" | 13x13x17" | |
| QTY/BOX | 900 | 500 (100/bag) | 150 | 75 | 75 | |
| LBS/BOX | 40 | 14 | 19 | 22 | 24 | |

D

D3030 SPRAYHEAD

6-40 psi (0.4-2.8 bar)
16-40' (4.9-12.2 m)



3030 SERIES PART-CIRCLE
SPRAY & HOSE DRAG ADAPTER
BOTH REQUIRE UNIVERSAL BODY;
3000 SERIES DOES NOT.



BUBBLER
ATTACHMENT
(LEPA) #10577
FOR D3000 ONLY



FLIP-OVER
HOSE DRAG
CAP ASSEMBLY
#12676

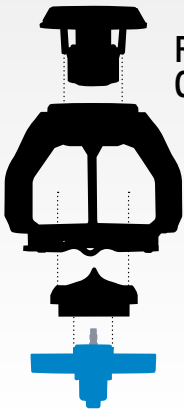


| | | | |
|--|---|---|---|
| TURQUOISE #9591  | GREEN #9543  | BLUE #9493  | GRAY #9542  |
| RED #9437  | YELLOW #9631  | BLACK #9541  | ORANGE #10683  |
| WHITE #10971  | PURPLE #9550  | BROWN #10721  | TAN BUBBLE-WIDE #12780  |

See sprayhead literature for plate characteristics, throw diameter and pressure/nozzle ranges.

T

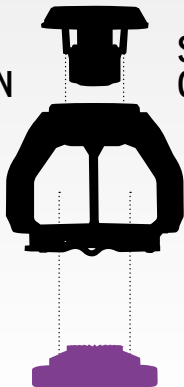
T3000 TRASHBUSTER



ROTATOR®
CONFIGURATION

| |
|--|
| BLUE #8817  |
| GREEN #8844  |

See page 8 for
cap assy *.



SPRAYHEAD
CONFIGURATION

| | | |
|--|--|--|
| GREEN #9543  | YELLOW #9631  | BLACK #9541  |
| BLUE #9493  | PURPLE #9550  | ORANGE #10683  |



3000FC Nozzle
#10106-xxx Requires
a rigid drop and 25 PSI
(1.7 bar) minimum.



The Sprayhead comes in the 3000 Series (with 3TN nozzle) or 3030 Series (with 3NV nozzle). The Trashbuster is not offered in the 3030 Series configuration.

| D3000 | | | | | D3030 | | | | | | | |
|-------------|-----------------------------------|------------------------|-----------------------|-----------|------------------------|-------------------|-------------------------|------------------------|-------------------|------------------------------|---------------------|-------------------|
| DESCRIPTION | 3/4" MNPT x Square Thread Adapter | Plates (excluding Tan) | Tan Bubble-Wide Plate | Spray Cap | 3TN Nozzle (see pg. 7) | A3000/ D3000 Body | D3000 Components Total* | 3NV Nozzle (see pg. 7) | A3030/ D3030 Body | D3030 Components Total* | Sprinkler Converter | Hose Drag Adapter |
| PART NO. | 9410 | pg. 14 | 12780 | 9429 | 9461-xxx | 9428 | With one spray plate | 12035-xxx | 12346 | (including nozzle & adapter) | 11472 | 9427 |
| BOX | 13x13x17" | 12x12x9" | 12x12x9" | 13x13x17" | 12x12x11" | 14x14x13" | | 12x12x11" | 14x14x16" | | | 12x12x5" |
| QTY/BOX | 900 | 600 | 600 | 1000 | 700 (100/bag) | 400 | | 500 (100/bag) | 200 | | See Page 8-9 | 75 |
| LBS/BOX | 40 | 10 | 10 | 22 | 12 | 16 | | 14 | 25 | | | 3 |

For HD3000 order 3000 Adapter, 3TN Nozzle & Hose Drag Adapter. For HD3030 order 3000 Adapter, 3NV Nozzle, 3030 Series Universal Adapter and Hose Drag Adapter.

*COMPONENTS TOTAL INCLUDES ADAPTER, PLATE, CAP, NOZZLE (3TN OR 3NV) AND BODY (D3000 OR D3030).



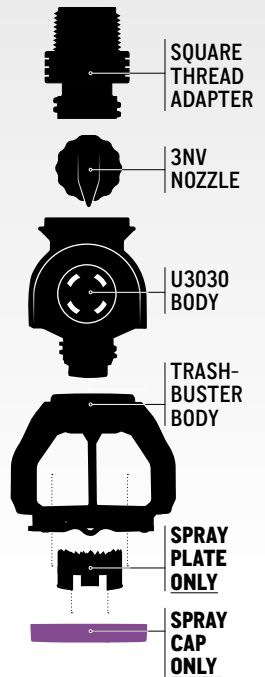
D3000 SPRAYHEAD
WITH TAN BUBBLE-WIDE PLATE
(SEE PAGE 16 FOR 3030 CONFIGURATION.)

Flip-over D3000 Cap #9429
Spray Plate with Cap Assy #10041-xxxx

| DESCRIPTION | Bubbler Attachment (3000 Series) | Flip-Over Hose Drag Cap Assy (3030 Series) | PC-Sprayhead (less nozzle & adapter) | 3030 Series Universal Adapter |
|-------------|----------------------------------|--|--------------------------------------|-------------------------------|
| PART NO. | 10577 (Pg 14) | 12676 (Pg 14) | 9894-001 | 12381 |
| BOX | 12x12x9" | 13x13x17" | 13x13x17" | 13x13x17" |
| QTY/BOX | 600 | 300 | 400 | 200 |
| LBS/BOX | 10 | 21 | 27 | 23 |

| T3000 w/ 3TN | | | | | T3000 w/ 3000FC | | T3030 w/ 3NV | | | | |
|--------------|-----------------------------|------------|-----------|-----------------------|------------------------|-------------------------|--------------|-------------------------|------------------------|------------|--|
| DESCRIPTION | 3/4" MNPT x Sq. Th. Adapter | T3000 Body | T3000 Cap | T3000 Cap/Spray Plate | 3TN Nozzle (see pg. 7) | T3000 Components Total* | 3000FC | T3000 Components Total* | 3NV Nozzle (see pg. 7) | U3030 Body | T3030 Components Total* |
| PART NO. | 9410 | 10419 | 10133 | 10324-xxx | 9461-xxx | (Spray & 3TN) | 10106-xxx | (Spray & 3000FC) | 12035-xxx | 12381 | (Spray & 3NV including nozzle & adapter) |
| BOX | 13x13x17" | 13x13x17" | 12x12x11" | 12x12x11" | 12x12x11" | | 12x12x11" | | 12x12x11" | 13x13x17" | |
| QTY/BOX | 900 | 300 | 400 | 300 | 700 (100/bag) | | 700 | | 500 (100/bag) | 200 | |
| LBS/BOX | 40 | 11 | 10 | 14 | 13 | | 37 | | 14 | 23 | |

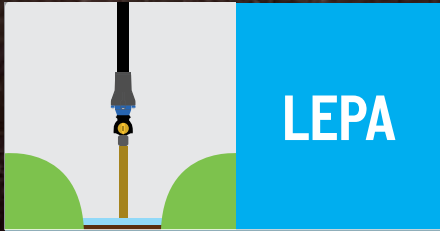
For Trashbuster with R3000 Rotator Cap/Motor/Plate, specify and price from Rotator Section on page 9.
*COMPONENTS TOTAL INCLUDES ADAPTER, PLATE, CAP, NOZZLE AND BODY.



3030 SERIES CONFIGURATION



IF YOU'RE LOOKING FOR "LE" SOLUTIONS —
LOOK FOR THE **NELSON ADVANTAGE.**



**LOW ENERGY/ELEVATION
PRECISION APPLICATION**

U3030

+ HOSE DRAG

- Germinate
- Irrigate
- Chemigate
- Bubble
- Drag



16



LEPA / TAN BUBBLE-WIDE

The **Tan Bubble-Wide plate** is now available for **Low Energy Precision Applications** in the **6-10 psi range (0.4-0.7 bar)** using nozzle sizes **#9-#50**. This configuration creates a wider dome of water than standard straight down bubblers, providing enhanced coverage for better uniformity as well as lowering application rates for improved infiltration. This pattern can increase efficiencies by reducing wind drift and evaporation versus standard Spray plates. Space from 30" to 60".

BUBBLE MODE WITH SPRINKLER
CONVERTER (ACCELERATOR MODE)

FLIP-OVER HOSE DRAG
CAP ASSEMBLY FOR
R3030/S3030 &
A3030/D3030 BODY
(SIMPLY FLIP TO FIT)

STRAIGHT-DOWN
BUBBLE MODE (NO
SPECIAL PLATE/CLIP
REQUIRED)



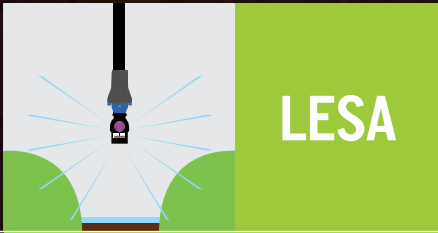


PROBLEM

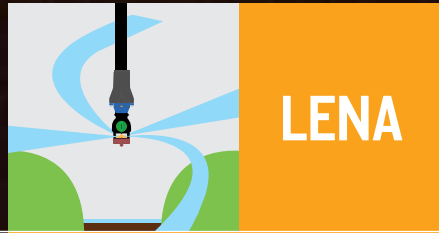
"I need a full coverage sprinkler to germinate my crop early in the season but then want to convert to a LEPA system later."



"Try the A3030 Accelerator with a sprinkler converter and switch to the tan bubble-wide when water supply is low."



LESA



LENA



**LOW ENERGY/ELEVATION
SPRAY APPLICATION**

D3030

SPRAYHEAD

Spray



SPRAY MODE WITH
SPRINKLER
CONVERTER

**LOW ENERGY/ELEVATION
NELSON ADVANTAGE**

A3030

ACCELERATOR

MOVING
SPRINKLERS:

- Rotator®
- Accelerator
- Spinner
- Orbitor



ACCELERATOR MODE WITH
SPRINKLER
CONVERTER

**HOSE DRAG — BUBBLER —
SPRAY TECHNOLOGY QUALIFY
AS LEPA AND LESA SO LONG
AS THE OUTLET SPACINGS
ARE TIGHT AND THE DEVICES
DELIVER WATER VERY NEAR TO
OR ON THE SOIL SURFACE, WITH
LITTLE ENERGY IN ORDER TO
HAVE VERY LOW EVAPORATION
IN THE AIR.**

The Sprinkler Converter is a great device to get a 3-in-1 sprinkler. Cater the irrigation to the crop needs by easily switching between bubble, spray, or low-pressure (6-10 psi) rotating sprinklers. The Accelerator has the widest throw for optimal soil infiltration.

PART-CIRCLE OPTIONS

Mounting Height
6' (1.8 m)

36' (11.0 m) radius

PC-R3000/S3000 cannot be used with U3030 Adapter (see table below)

PART-CIRCLE R3000 ROTATOR*
*10843-XXX

PART-CIRCLE R3030 ROTATOR*
*12651-XXX (U3030 INCLUDED)

Mounting Height
6' (1.8 m)

25' (7.6 m) radius

PART-CIRCLE S3000 SPINNER*
*9926-001

PART-CIRCLE S3030 SPINNER*
*12650 (U3030 INCLUDED)

Mounting Height
3' (0.9 m)

16' (4.9 m) radius

PART-CIRCLE D3000 SPRAY*
*9894-001

PART-CIRCLE D3030 SPRAY*
*9894-001
(ORDER U3030 BODY *12381 SEPARATELY)

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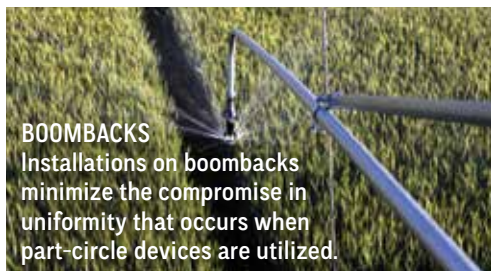
*Part numbers do not include nozzles or square thread adapters. PC-R3030 and S3030 part numbers include U3030 body. *12381 must be ordered separately for the PC-D3030.

Part-circle options include the PC-Rotator®, PC-Spinner and PC-Sprayhead. All sprinklers are available in both 3000 series (with 3TN nozzle) and 3030 series (with 3NV nozzle). The 3030 series utilizes the Universal Adapter (U3030). These part-circle sprinklers can be used for dry wheel track solutions, hose boom applications or a simple end of system addition.

FOR PC-ROTATOR: MOUNT ONLY ON A STRAIGHT RIGID DROP OR A HOSE BOOM UTILIZING A TORQUE CLIP AND SIDEFORCE CONTROL FITTING SUCH AS THE IACO HB.

| 3030 SERIES | Plate Color | Nozzle Range | Pressure (PSI) | Assy (less nozzle) | Components | | |
|-------------|-------------|--------------|----------------|--------------------|----------------|----------------|------------|
| | | | | | Cap/Plate Assy | Body/Deflector | U3030 Body |
| PC-R3030 | White | #14-23 | 15-25 | 12651-002 | 11075-002 | 13443 | 12381 |
| | Tan | #24-39 | | 12651-003 | 11075-003 | | |
| | Black | #40-50 | | 12651-001 | 11075-001 | | |
| PC-S3030 | Turquoise | #14-50 | 10-20 | 12650 | 10949-001 | | |
| PC-D3030 | Blue | #9-50 | 6-20 | NA | NA | 9894-001 | |

| 3000 SERIES | Plate Color | Nozzle Range | Pressure (PSI) | Assy (less nozzle) | Components | | |
|-------------|-------------|--------------|----------------|--------------------|----------------|----------|-----------|
| | | | | | Cap/Plate Assy | Body | Deflector |
| PC-R3000 | White | #14-23 | 15-25 | 10843-002 | 11075-002 | 10419 | 9736 |
| | Tan | #24-39 | | 10843-003 | 11075-003 | | |
| | Black | #40-50 | | 10843-001 | 11075-001 | | |
| PC-S3000 | Turquoise | #14-50 | 10-20 | 9926-001 | 10949-0001 | 9412 | |
| PC-D3000 | Blue | #9-50 | 6-20 | NA | NA | 9894-001 | |



SMART SOLUTIONS



PROBLEM

"I'd like to start out with a low volume package and increase the flow once the crop matures."

"Try using nozzle clips! Germinate in LO flow mode and irrigate in HI flow. Or irrigate in HI and chemigate in LO."

SOLUTION



3NV DNC DISASSEMBLY DEVICE

Use this tool to remove and change 3NV Nozzles from the Dual Nozzle Clip. Simply insert tool teeth into nozzle notches and it releases.



NOZZLE CLIPS

Nelson Pivot Sprinklers can be equipped with two or three nozzles using the 3TN Dual Nozzle Clip or 3TN Triple Nozzle Clip. The 3030 Series has a dual nozzle clip. These devices allow you to precisely match crop water requirements through the season. During germination, lower system flow rates lessen the intensity of water droplets to maintain proper soil structure and reduce runoff. Adjust the system flow as crop water requirements or well outputs change.



- Change system flow quickly and accurately.
- No more fumbling with or dropping nozzles.

Note: Do not operate in down-in-the-crop applications, or with the Chemigation Spray Plate.

| 3TN Dual Nozzle Clip | 3TN Triple Nozzle Clip | 3NV Dual Nozzle Clip | 3NV DNC Disassembly Device |
|----------------------|------------------------|----------------------|----------------------------|
| 9742 | 11089 | 12032 | 12560 |
| 13x13x17" | | 12x12x9" | 8x8x5" |
| 1000 | | 1000 | 1 |
| 16 | | 9 | 2 |

CATERING TO CROP SPECIFIC NEEDS - UP-TOP SOLUTIONS FOR TALL GROWING CROPS

THE UP-TOP R3030 ROTATOR® WITH WHITE PLATE CAN OPERATE DOWN TO 15 PSI (1.0 BAR) WITH HIGH UNIFORMITY AND IMPRESSIVE WIND RESISTANCE, MADE POSSIBLE BY SPECIFICALLY ENGINEERED AND FINELY-TUNED ROTATING PLATES.



AT 10 PSI (0.7 BAR), THE ACCELERATOR WITH THE NAVY PLATE OFFERS LOW PRESSURE ADVANTAGES OVER SPRAYHEADS ON TOP OF THE PIPE.



THE NEW UP-TOP O3030FX PROVIDES RANDOM DROPLETS IN A COMPACT, LOW VIBRATION DESIGN. USE AT 10 PSI (0.7 BAR) - WITH MNPT NIPPLE.



CONNECTIONS & WEIGHTS



FITTINGS

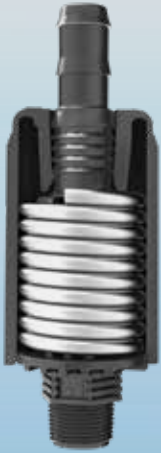
User-friendly HOSE BARB FITTINGS. Easy installation into 3/4" flexible hose. Eliminates additional fittings. The convenience of the 15/16" Hex Adapter is unique to Nelson fittings. Secure fittings using 15/16" deep well socket or open end wrench.

- SUPERIOR FLOW CAPACITY SAVES ENERGY**
- Spinweld technology allows for larger and more efficient inside diameters.
 - 180° goosenecks have less than half the friction loss of comparable products (1 psi (0.07 bar) of friction loss @ 22 gpm (83 lpm)).
- DURABLE AND CORROSION-RESISTANT PLASTIC**
- Lower cost than traditional metal goosenecks.
 - Will not rust over time, therefore prevents nozzle plugging.
 - Can handle intense tension force.
- 3/4" MNPT INLET**
- Eliminates extra fittings and provides easier and more reliable installation into span pipe.

INSTALLATION NOTES:
 If adding sealant, use only Teflon tape or pipe lubricants safe for plastics. When used on semi-rigid or rigid drops, limit drop length to 96 inches (2.4 m) AND one foot (0.31 m) below trussing in span center. For ease of installation, retrofit packages may require chasing coupler threads with a tap.

| DESCRIPTION | FNPT x (HB) | MNPT x (HB) | ST Adapter x (HB) | 3/4" x 3/4" MNPT Nipple |
|-------------|-------------|-------------|-------------------|-------------------------|
| PART NO. | 10057 | 10148 | 9901 | 12291 |
| BOX | 13x13x17" | 13x13x17" | 13x13x17" | 12x12x18" |
| QTY/BOX | 625 | 725 | 800 | 400 |
| LBS/BOX | 33 | 36 | 38 | 20 |

| DESCRIPTION | Gooseneck | Geeseneck | 125° |
|-------------|---------------------------------|---------------------------------|---------------------------------|
| PART NO. | 12375-001 MNPT ; 12375-002 BARB | 13520-001 MNPT ; 13520-002 BARB | 13501-001 MNPT ; 13501-002 BARB |
| BOX | 14x14x17" | 14x14x17" | 14x14x13" |
| QTY/BOX | 75 | 75 | 75 |
| LBS/BOX | 24 | 24 | 19 |



NEW! COIL WEIGHT

Save a fitting with integrated Hose Barb x 3/4" MNPT connection. Optional plastic cover secures over coil to deter theft. Same mounting restrictions as the slim weight on right. Available in 0.85 lb, 1 lb and 1.25 lb.



SLIM WEIGHT

The in-line "slim" weight is for use with 3000 Series & 3030 Series Sprinklers. This low profile zinc weight fits directly into a flexible drop hose secured with a clamp, above a Nelson regulator and/or sprinkler. This includes the plastic cover versions of the 03000 and 03030 at 6, 10 or 15 psi (0.4, 0.7 or 1 bar) where the regulator must be installed directly onto the slim weight. No additional weight is allowed with the weighted Orbitor.



WEIGHT FOR DROP HOSE

The 1 lb. modular weight (#10130) fits onto the pressure regulator, but if pressure regulators are not used, the weight fits directly on the body of the sprinkler (3000 Series only and not to be used with the Orbitor). The 1 lb. Modular Pivot Weight is designed for sprinklers operating at 20 PSI (1.4 BAR) and below.

| DESCRIPTION | 0.85 lb. Coil Weight (no cover) | 1 lb. Coil Weight (w/cover) | 1.25 lb. Coil Weight (w/cover) | 0.85 lb. In-line Slim Weight | 1 lb. In-line Slim Weight | 1 lb. Modular Weight |
|-------------|---------------------------------|-----------------------------|--------------------------------|------------------------------|---------------------------|----------------------|
| PART NO. | 13598 | 13597 | 13306 | 11395-001 | 11395 | 10130 |
| BOX | | 12x12x8" | 12x12x9" | 12x12x5" | 12x12x5" | 12x12x5" |
| QTY/BOX | | 25 | 33 | 40 | 35 | 48 |
| LBS/BOX | | 26 | 25 | 36 | 36 | 52 |

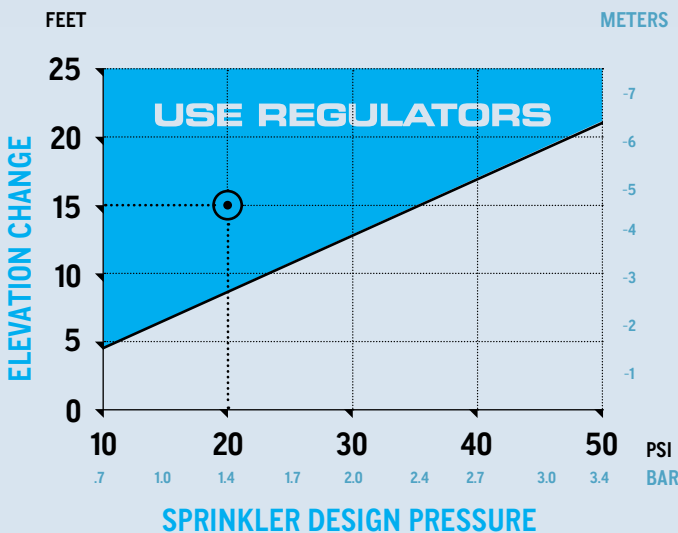
PRECISION ACCURACY IN TOUGH FIELD ENVIRONMENTS

THE BENEFITS OF REGULATORS INCLUDE UNIFORM DEPTH OF WATER APPLICATION, CONTROLLED SPRINKLER PERFORMANCE (DROPLET SIZE AND THROW DISTANCE), AND FLEXIBILITY IN SYSTEM OPERATION. CHOOSE FROM THE FIELD-PROVEN **UNI-FLO** OR THE NEW **ALL-FLO**.

HOW MUCH ELEVATION CHANGE IS ACCEPTABLE?

The graph below shows the point at which regulators will be required for a given design pressure and elevation change along the pivot. Notice that lower design pressure allows less elevation change before pressure regulators are recommended.

NOTE: Even if elevation changes do not require pressure regulators, you should consider them for their other advantages.



The Nelson Universal Pressure Regulator has a flow up to 12 GPM (2.7 M³/H) at 15 PSI (1.0 BAR) and above.

TECHNICAL TIPS FOR REGULATORS

IMPORTANT: Allow approximately 5 PSI (.35 BAR) extra pressure in order for the regulator to function properly. For example, the minimum design pressure for a 20 PSI (1.4 BAR) pressure regulator is 25 PSI (1.7 BAR).

IMPORTANT: If your system is designed with Nelson sprinklers, use Nelson Pressure Regulators. Individual manufacturers' pressure regulator performance varies. Interchanging could result in inaccurate nozzle selection.

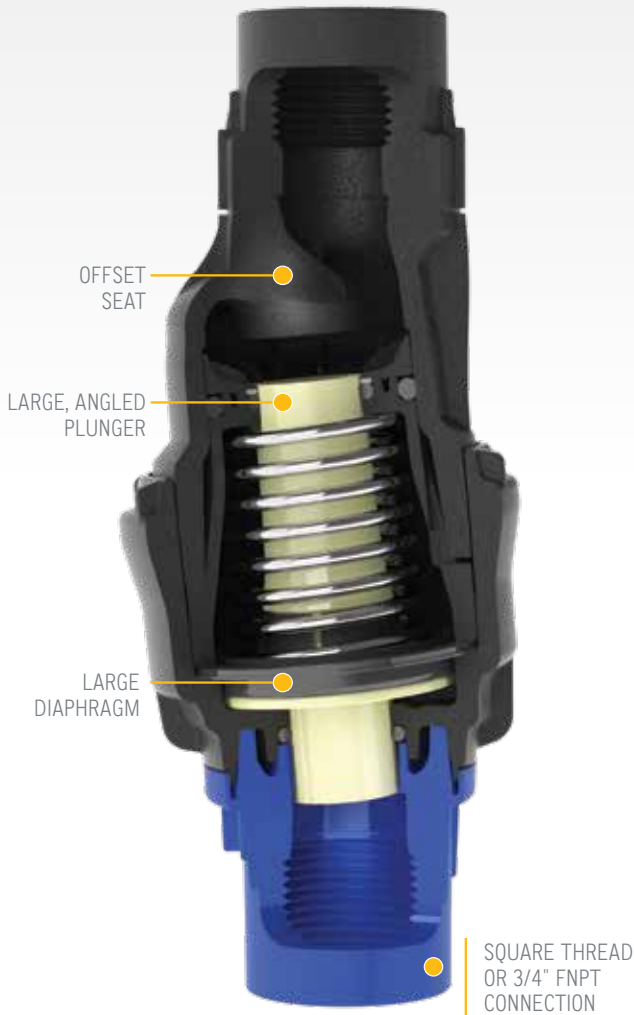
| DESCRIPTION | Square Thread Uni-Flo | Square Thread Hi-Flo | 3/4" FNPT Uni-Flo | 3/4" FNPT Hi-Flo |
|-------------|-----------------------|----------------------|-------------------|------------------|
| BOX | 12x12x13" | 12x12x11" | 12x12x13" | 12x12x11" |
| QTY/BOX | 100 | 50 | 100 | 50 |
| LBS/BOX | 27 | 25 | 30 | 25 |

UNI-FLO & HI-FLO

| | 6 PSI (0.4 bar) | 10 PSI (0.7 bar) | 15 PSI (1.0 bar) | 20 PSI (1.4 bar) | 25 PSI (1.7 bar) | 30 PSI (2.1 bar) | 40 PSI (2.8 bar) | 50 PSI (3.4 bar) |
|-----------------------------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 3/4" FNPT X SQUARE THREAD UNI-FLO | 9572-001 | 9572-002 | 9572-003 | 9572-004 | 9572-005 | 9572-006 | 9572-007 | 9572-008 |
| 3/4" FNPT X SQUARE THREAD HI-FLO | 9611-001 | 9611-002 | 9611-003 | 9611-005 | 9611-006 | 9611-007 | 9611-008 | 9611-009 |
| 3/4" FNPT X 3/4" FNPT UNI-FLO | 9491-001 | 9491-002 | 9491-003 | 9491-004 | 9491-005 | 9491-006 | 9491-007 | 9491-008 |
| 3/4" FNPT X 3/4" FNPT HI-FLO | 9071-001 | 9071-002 | 9071-003 | 9071-005 | 9071-006 | 9071-007 | 9071-008 | 9071-009 |



2020 
 NEW PRODUCT
 CONTEST **Winner**
 Irrigation Association



ACCURATE

- A large diaphragm means less force is required for the regulator to make small adjustments. That means better accuracy and more uniformity.

REDUCED PLUGGING

- The offset, steep-sloped seat is out of the flow path, preventing debris hang-up.
- The patented, angled plunger minimizes restrictions.

FULL NOZZLE RANGE

- The plunger has 52% more area than other regulators, which supports a wide flow range (0.5–20 gpm)
- One regulator fits the full pivot sprinkler nozzle range.

| DESCRIPTION | Square Thread All-Flo | 3/4" FNPT All-Flo |
|-------------|-----------------------|-------------------|
| BOX | 12x12x13" | 12x12x13" |
| QTY/BOX | 50 | 50 |
| LBS/BOX | 27 | 30 |



ALL-FLO REGULATORS

| | 6 PSI (0.4 bar) | 10 PSI (0.7 bar) | 15 PSI (1.0 bar) | 20 PSI (1.4 bar) | 25 PSI (1.7 bar) | 30 PSI (2.1 bar) | 35 PSI (2.4 bar) | 40 PSI (2.8 bar) | 50 PSI (3.4 bar) | 60 PSI (4.1 bar) |
|-----------------------------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 3/4" FNPT X SQUARE THREAD ALL-FLO | 12616-006 | 12616-010 | 12616-015 | 12616-020 | 12616-025 | 12616-030 | 12616-035 | 12616-040 | 12616-050 | 12616-060 |
| 3/4" FNPT X 3/4" FNPT ALL-FLO | 12612-006 | 12612-010 | 12612-015 | 12612-020 | 12612-025 | 12612-030 | 12612-035 | 12612-040 | 12612-050 | 12612-060 |

GO BEYOND.



R55VT

40-55'

(12-17m) @
15-60 PSI
(1.0-4.2 bar)

19 gpm-105 gpm
(4.2 m³/h-23.8 m³/h)



R75

50-70'

(15-21 m) @
25-60 PSI
(1.7-4.2 bar)

24 gpm-70 gpm
(5.4 m³/h-15.4 m³/h)

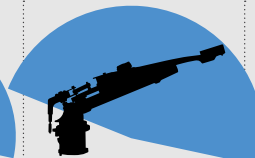


SR75

70-90'

(21-28 m) @
25-80 PSI
(1.7-5.5 bar)

30 gpm-160 gpm
(6.8 m³/h-36.3 m³/h)



SR100

90-120'

(28-37 m) @
40-80 PSI
(2.8-5.5 bar)

50 gpm-300 gpm
(11.4 m³/h-68.2 m³/h)

TYPICAL ADDED ACREAGE ON A 1/4-MILE PIVOT

Up to 10 acres
(4.0 ha)
irrigating full circle

Up to 6 acres
(2.4 ha)
corners only

Up to 13 acres
(5.3 ha)
irrigating full circle

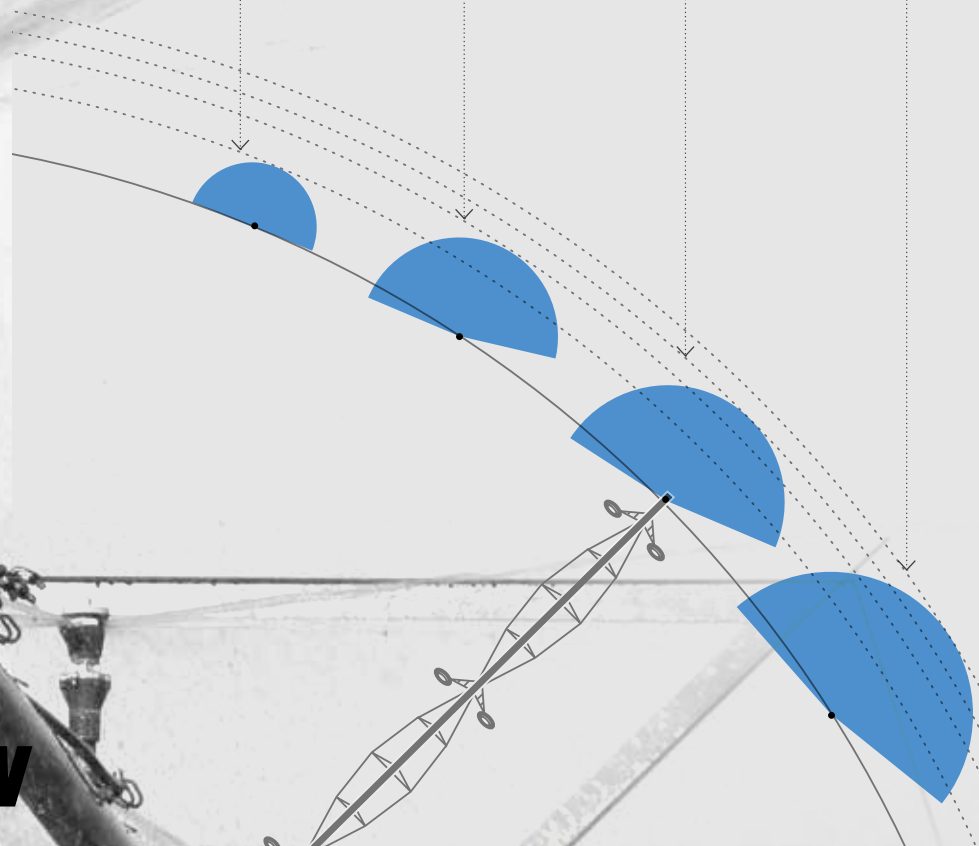
Up to 7 acres
(2.8 ha)
corners only

Up to 17 acres
(6.9 ha)
irrigating full circle

Up to 9 acres
(3.6 ha)
corners only

Up to 23 acres
(9.3 ha)
irrigating full circle

Up to 11 acres
(4.5 ha)
corners only

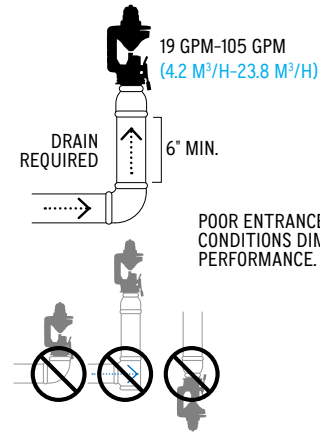


24

ADDITIONAL ACREAGE AT LOW PRESSURE

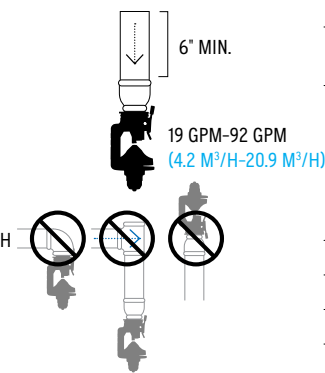
R55 VT

UPRIGHT MOUNTING
OPERATING PRESSURE MUST BE
15-60 PSI (1.0-4.2 BAR)



R55i VT

INVERTED MOUNTING
OPERATING PRESSURE MUST BE
15-60 PSI (1.0-4.2 BAR)



| DESCRIPTION | R55 VT Body | R55i VT Body | Nozzle Assy |
|-------------|--|--|--|
| PART NO. | 12885 | 12886 | 12679-0XX MNPT 12679-1XX MBSP |
| | For Upright Applications (Blue Plate) | For Inverted Applications (Green Plate) | *52 Purple -X52, *56 White -X56, *60 Red -X60, *65 Orange -X65, *70 Yellow -X70, *80 Green -X80, *90 Blue -X90 |
| BOX | 12x12x11" | 12x12x11" | 12x12x4" |
| QTY/BOX | 9 | 9 | 24 |
| LBS/BOX | 14 | 14 | 8 |

Please note that radius is typically less for the inverted, green plate than for the blue plate. The R55 VT and R55i VT can be controlled using a Nelson 1000P Valve.

NEW! END SPRINKLER ADAPTER

FOR R55VT, R55i VT & R75 SPRINKLERS
Not to be used with impact sprinklers.



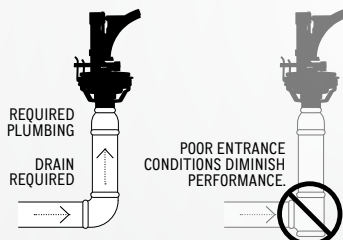
| DESCRIPTION | 2" MNPT x 1.25" FNPT | 2" MBSP x 1.25" FBSP |
|-------------|----------------------|----------------------|
| PART NO. | *13203-001 (Black) | *13203-002 (Gray) |
| BOX | 12x9x6" | 12x9x6" |
| QTY/BOX | 9 | 9 |
| LBS/BOX | 6 | 6 |



25

R75

This versatile, high-uniformity sprinkler is based on field-proven Rotator® Technology. The R75 and R75LP (low pressure option) help fill in the corners and gain added ground ... up to 70 feet (21 m).



| DESCRIPTION | R75 Body | 7TN Nozzle |
|-------------|---|--|
| PART NO. | 11936-0XX MNPT 11936-1XX MBSP | 12178-xxx |
| | *-x01 for 40-60 psi, 2.75-4 bar and *-x02 for LP Version 25-40 psi, 1.75-2.75 bar | *52 Beige -052,*56 Red -056, *60 Yellow -060, *64 Green -064 *68 Blue -068, *72 White -072 |
| BOX | 15x9x6" | 8x8x5" |
| QTY/BOX | 1 | 5 |
| LBS/BOX | 6 | 3 |

ORIGINAL BIGGUN®

SR100

50 GPM-300 GPM
(11.4 M³/H-68.2 M³/H)

SR75

30 GPM-160 GPM
(6.8 M³/H-36.3 M³/H)

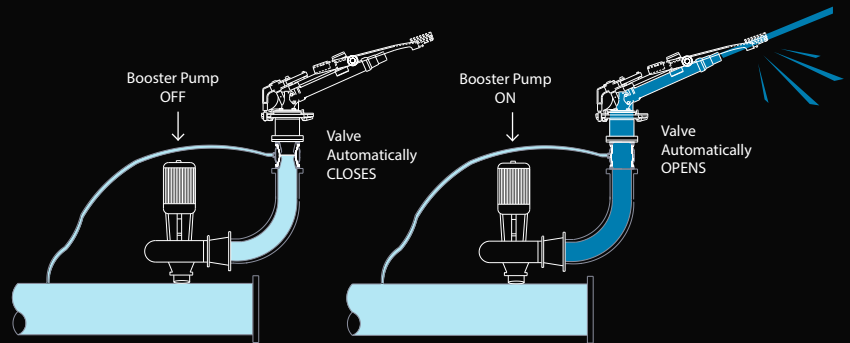


PIVOT GUN CONTROL VALVE

800P CONTROL VALVE
+ SR75 OR SR100

26

THE 2" VALVE IS NORMALLY CLOSED. WHEN THE BOOSTER PUMP IS TURNED ON, THE ADDED PRESSURE* CAUSES THE VALVE TO OPEN OPERATING THE GUN. NO OTHER ACCESSORY IS NEEDED.



*BOOSTER PUMP ADDED PRESSURE MUST BE 18 PSI (1.2 BAR) OR MORE.

800P - 2" (50 MM) PIVOT END GUN VALVE (Booster Pump Controlled - no solenoid required)
Medium Pressure sleeve (18-80 psi) includes ball drain/vent, 2 rubber drains, and 1/4" tube fitting in jacket

| MODEL NO. | DESCRIPTION | PART NUMBER |
|-----------|--|-------------|
| 800P | 800P End Gun Valve, A2B12C3, no stud kit | 13271-003 |
| | 800P End Gun Valve, A2B11C3, with stud kit | 13271-001 |



2 x Rubber drain/plug
(1) #9800 Upstream - to release air
(1) #9800-100 Downstream - to drain gun



10753 Ball drain/vent
Installed in booster pump volute or valve jacket to prevent booster pump air lock



THE ORIGINAL BIG GUN®

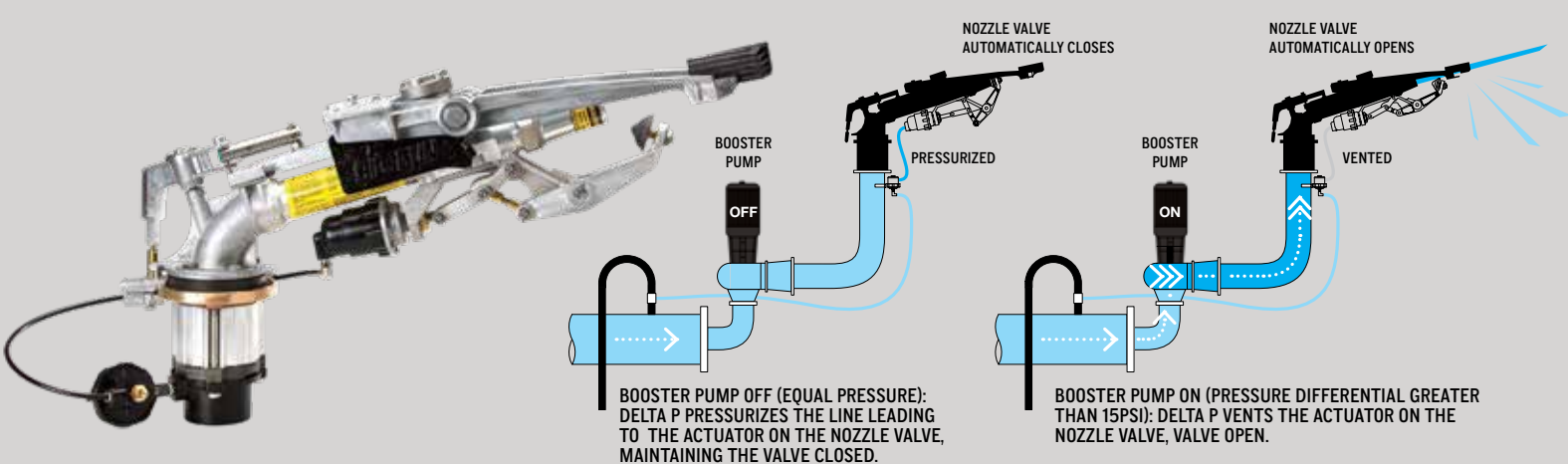
| DESCR. | Part Circle – Slow Reverse (18") | Individual Taper Ring Nozzle (Specify Size) | Part Circle – Slow Reverse (18") | SR100 Nozzle Valve w/ Solenoid (110V or 24V) (18") | SR100 Nozzle Valve without Solenoid | SR100 Nozzle Valve w/ Delta P (less nozzle) 8211-316 | Taper Bore Nozzle (Specify Size) | Purge Valve – 1.5" MNPT or 1.5" MBSP | Delta P Kit | 2" FNPT Flange |
|-----------|----------------------------------|---|----------------------------------|--|-------------------------------------|--|----------------------------------|--------------------------------------|-------------|----------------|
| MODEL NO. | SR75 | TR75 | SR100 | SRNV100E | SRNV100H | SRNV100DP | 100T | 10474 | 12289 | 10356 |
| BOX | 32x9x15" | | 32x9x15" | 32x9x15" | 32x9x15" | 32x9x15" | | 10474-001 | | |
| LBS/BOX | 22 | 1/2 | 24 | 36 | 35 | 28 | 1/2 | 6 | | 3 |

PROBLEM

"I have to frequently manually flush the end of my pivot to prevent it from filling with sand and mud."



"Install a purge valve at the end of the center pivot for automatic flushing at start up and shut down. During system start up, the purge valve is open until the end pressure reaches approximately 8 psi. If at any time the end pressure drops below 8 psi, the valve will open."



SRNV100 BIG GUN® NOZZLE VALVE

The SRNV100 is the standard SR100 Big Gun® configured with a simple mechanical valve which can be either hydraulically or electrically controlled and linked to the pivot control system. The nozzle valve improves end gun performance and efficiency by eliminating pressure loss, turbulence, and debris hang-up typical of other end gun control valves.

DELTA P KIT

The Delta P can be paired with the SRNV100 to further improve reliability by eliminating the need for a costly solenoid. The Delta P automatically opens and closes the nozzle valve by sensing pressure upstream and downstream of the booster pump.



LUCKY 7

SPINNER

JET

ROTATOR®



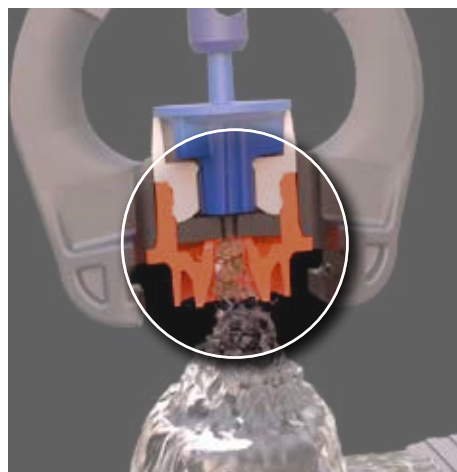
28

NELSON'S 7 SERIES MICRO SPRINKLERS can transform from one sprinkler type to another. Each sprinkler type uses the same adapters, stake & tube assemblies, body and nozzles. Therefore, each shares in the benefits of low pressure operating flow control nozzles, quick clean technology, and easy change nozzles. Additionally the same accessories such as stream splitters and PVC stake & tube assemblies can be used with each sprinkler type. R7 Rotator® coming soon!



**FLOW REGULATION
AT LOWER PRESSURE**

7FC flow control nozzles are flow regulating from 15-50 PSI.



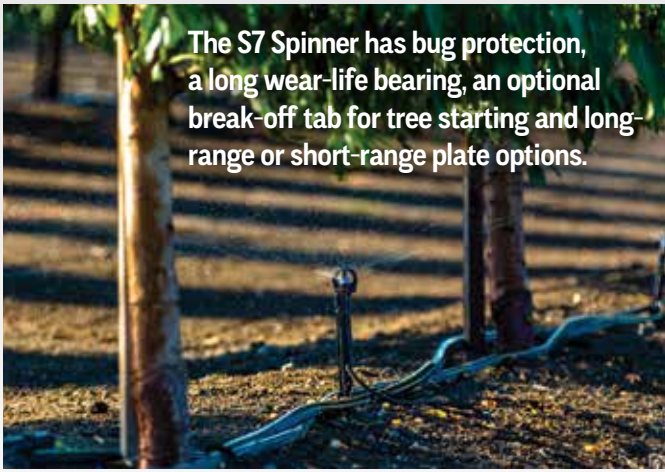
**QUICK-CLEAN
TECHNOLOGY**

Simply turn, flush and reconnect sprinkler — save time and money by reducing labor.



**SUPERIOR
WEAR LIFE**

Designed with heavy-duty, stainless steel ball at the top of the spin plate, ensuring durability and longevity.



The S7 Spinner has bug protection, a long wear-life bearing, an optional break-off tab for tree starting and long-range or short-range plate options.

S7 SPINNER

| NOZZLE | 7FC NOZZLE |
|---------------|----------------------|
| *30 Black | *09 (8.5) GPH Orange |
| *35 Orange | *11 GPH Blue |
| *40 Blue | *14 GPH Purple |
| *45 Purple | *18 GPH Yellow |
| *50 Green | *24 GPH Red |
| *55 Yellow | |
| *60 Light Red | |
| *65 Gray | |
| *70 White | |
| *78 Dk. Blue | |



STANDARD **12890-XXXX**

FLOW CONTROL **12891-XXXX**

| BLUE PLATE | PURPLE PLATE | BLACK PLATE | TAN PLATE |
|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Without Deflector Tab = 21 | Without Deflector Tab = 23 | Without Deflector Tab = 25 | Without Deflector Tab = 27 |
| With Deflector Tab = 22 | With Deflector Tab = 24 | With Deflector Tab = 26 | With Deflector Tab = 28 |

PLATE DESCRIPTIONS:

(Please see the S7 Literature for recommended pressures.)

BLUE: Greatest throw radius, recommended with all nozzles except *30 and *35.*

PURPLE: For low pressure and low flow, recommended with only *30, *35, and 8.5 FC nozzles.

BLACK: Mid-range radius and flat trajectory, use with all nozzles.

TAN: Short radius and flat trajectory, use with *30 to *55, and 8.5, 11, 14, 18, and 24 FC nozzles.

| DESCRIPTION | Standard S7 Assy including Plate & Nozzle | S7 Assembly including Plate & FCN Nozzle | QC x 1/2 MNPT 13064-001 | QC x 3/8 MNPT 13064-002 |
|-------------|---|--|-------------------------|-------------------------|
| BOX | 12x12x10" | 12x12x10" | 12x12x10" | |
| QTY/BOX | 600 | 600 | 1400 | |
| LBS/BOX | 17 | 17 | 14 | |

Standard Spinner Top
(Blue) 12727-002





S7 Body
12924

BLUE Plate w/o Tab 12716-001
PURPLE Plate w/o Tab 13184-001
BLACK Plate w/o Tab 13448-001
TAN Plate w/o Tab 13728-001



BLUE Plate w/ Tab 12716-002
PURPLE Plate w/ Tab 13184-002
BLACK Plate w/ Tab 13448-002
TAN Plate w/ Tab 13728-002



Flow Control 7FC Nozzle 12720-0xx



*(xx = 8.5 (09), 11, 14, 18, & 24 GPH)

Standard ITN Nozzle 12721-0xx



*(xx = 35, 40, 45, 50, 55, 60, 65, 70, 78)



QC x 1/2 MNPT
13064-001



QC x 3/8 MNPT
13064-002



QC x Acme with Screen
(Connects to 1/2 PVC-4, 1/2 PVC-5, FT2, FT3)
12972



QC x Acme NO Screen
(Connects to 1/2 PVC-4, 1/2 PVC-5, FT2, FT3)
12929



Adapter for SuperNet Stake,
QC x .256" OD Tube
12882-001



7 SERIES STREAM SPLITTERS

One-Sided Stream Splitter
13149



Two-Sided Stream Splitter
13150

J7 JET

STANDARD **13439-XXXX**

FLOW CONTROL **13440-XXXX**

NOZZLE*



DEFLECTOR PLATE

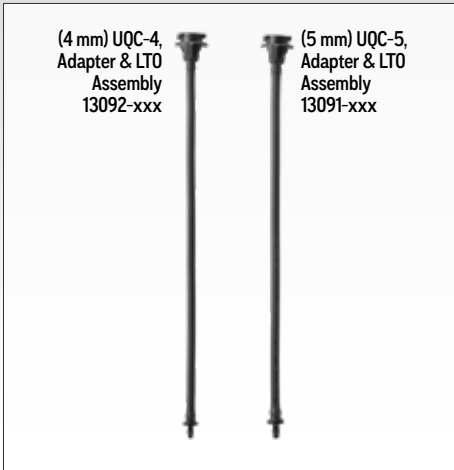
Red = **01**

3' (0.9 m) Radius with 8" Mounting Height

The J7 is optimal for tree starting with no moving parts. Other spray patterns coming soon!

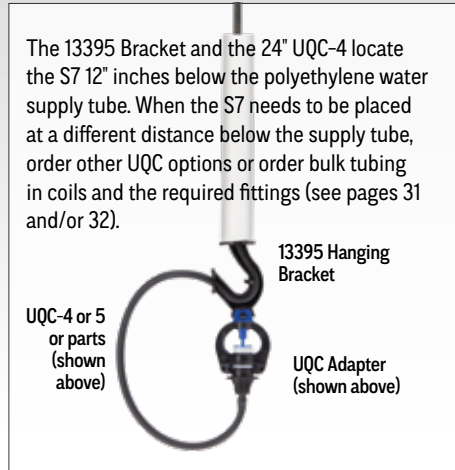
INTRODUCING THE NEW UQC-4 & UQC-5 UNIVERSAL MOUNTING CONFIGURATIONS

ALL REQUIRE: UQC-4/5 ASSEMBLY OR PARTS



UQC-4 (13092-xxx) & UQC-5 (13091-xxx) configurations include a UQC Adapter and Tube & LTO Assembly.

OPTION 1: HANGING CONFIGURATION

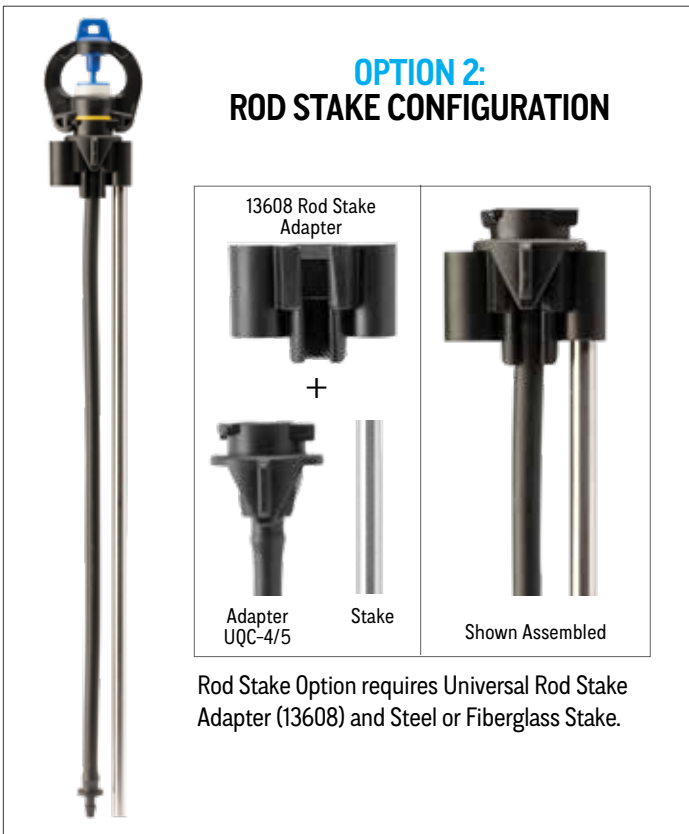


The 13395 Bracket and the 24" UQC-4 locate the S7 12" inches below the polyethylene water supply tube. When the S7 needs to be placed at a different distance below the supply tube, order other UQC options or order bulk tubing in coils and the required fittings (see pages 31 and/or 32).

The S7 Hanging Bracket (13395) is required to hang the S7. This configuration is a great solution for organic orchardists.

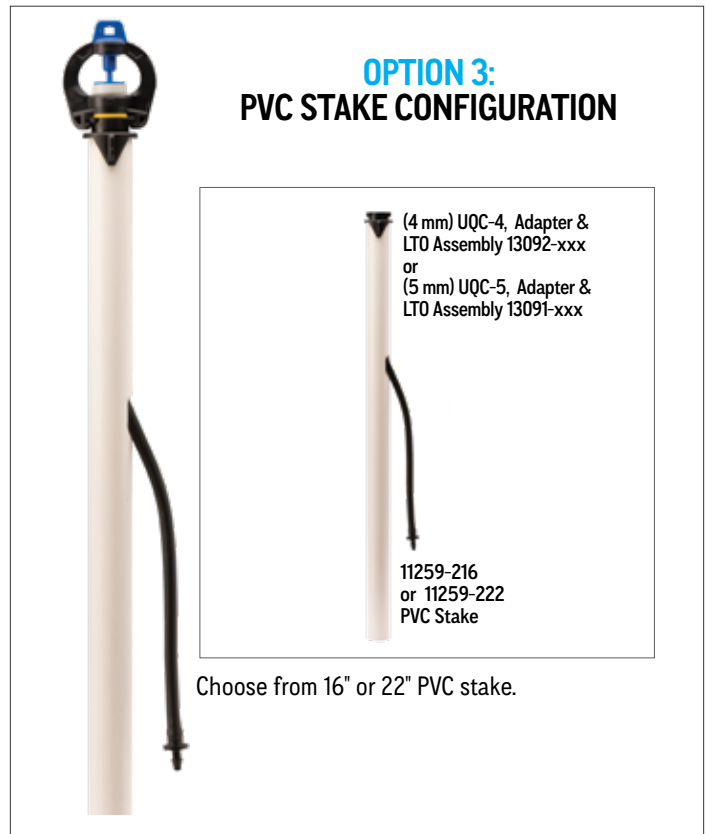
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OPTION 2: ROD STAKE CONFIGURATION



Rod Stake Option requires Universal Rod Stake Adapter (13608) and Steel or Fiberglass Stake.

OPTION 3: PVC STAKE CONFIGURATION



Choose from 16" or 22" PVC stake.

UQC-4 & UQC-5 UNIVERSAL SYSTEM

The new universal mounting system is another step in making the 7 Series the best micro-irrigation system out there. Choose tubing assembly parts or assemblies (UQC-4 or 5) and PVC stake/rod stake or hanging components.

(4 MM) UQC-4, ADAPTER & LTO ASSEMBLY (13092-XXX*) & PARTS

| DESCRIPTION | Adapter, UQC-4, 4 mm Tube x QC | TUBE & LTO ASSEMBLY | | | | | UQC-4*, ADAPTER & LTO ASSY | | | | |
|-------------|--------------------------------|---------------------|--------------------|--------------------|--------------------|---------------------|----------------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| | | 4 mm x 12" (30 cm) | 4 mm x 18" (45 cm) | 4 mm x 24" (61 cm) | 4 mm x 30" (76 cm) | 4 mm x 48" (122 cm) | 4 mm x 12" (30 cm) Tube | 4 mm x 18" (46 cm) Tube | 4 mm x 24" (61 cm) Tube | 4 mm x 30" (76 cm) Tube | 4 mm x 48" (122 cm) Tube |
| PART NO. | 12990-002 | 9960-912 | 9960-918 | 9960-924 | 9960-930 | 9960-948 | 13092-012 | 13092-018 | 13092-024 | 13092-030 | 13092-048 |

*QC-4 includes the 9960-9xx and the 12900-002 4 mm QC adapter

(5 MM) UQC-5, ADAPTER & LTO ASSEMBLY (13091-XXX**) & PARTS

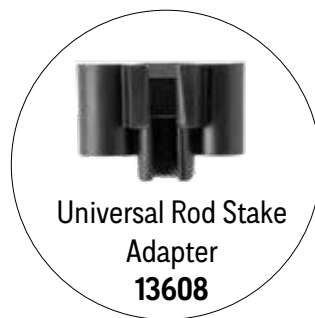
| DESCRIPTION | Adapter, UQC-5, 5 mm Tube x QC | TUBE & LTO ASSEMBLY | | UQC-5**, ADPT & LTO ASSY | |
|-------------|--------------------------------|---------------------|---------------------|--------------------------|--------------------------|
| | | 5 mm x 30" (76 cm) | 5 mm x 48" (122 cm) | 5 mm x 30" (76 cm) Tube | 5 mm x 48" (122 cm) Tube |
| PART NO. | 12990-001 | 11283-030 | 11283-048 | 13091-030 | 13091-048 |

**UQC-5 includes the 11283-0xx and the 12900-001 5 mm QC adapter



ROD STAKES & ADAPTER

| DESCRIPTION | Universal Rod Stake Adapter (for 6.3mm & 8mm Stakes) | Stake Steel, 1/4" (6.3mm) x 24" (61 cm) | Stake Fiberglass, 1/4" (6.3 mm) x 24" (61 cm) |
|-------------|--|---|---|
| PART NO. | 13608 | 9726-024 | 10040-024 |



PVC STAKE OPTIONS

| DESCRIPTION | Stake, PVC with hole, 1/2" x 16" (40 cm) | Stake, PVC with hole, 1/2" x 22" (56 cm) |
|-------------|--|--|
| PART NO. | 11259-216 | 11259-222 |



4 & 5 MM STAKE & TUBE OPTIONS FOR THE S7



4 MM ASSEMBLIES MAX. FLOW LIMIT = 20 GPH (76 LPH)
5 MM ASSEMBLIES MAX. FLOW LIMIT = 39 GPH (148 LPH)



1/2" PVC-4 QC (4 MM) STAKE & TUBE ASSEMBLY (#13090-2XXXX) & PARTS

| DESCRIPTION | Adapter, UQC-4, 4 mm Tube x QC | TUBE & LTO ASSEMBLY | | 1/2" PVC-4 QC | | |
|-------------|--------------------------------|---------------------|---------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| | | 4 mm x 30" (76 cm) | 4 mm x 48" (122 cm) | 16" Stake x 4 mm x 30" (76 cm) Tubing | 22" Stake x 4 mm x 30" (76 cm) Tubing | 16" Stake x 4 mm x 48" (76 cm) Tubing |
| PART NO. | 12990-002 | 9960-930 | 9960-948 | 13090-21630 | 13090-22230 | 13090-21648 |



1/2" PVC-5 QC (5 MM) STAKE & TUBE ASSEMBLY (#13089-2XXXX) & PARTS

| DESCRIPTION | Adapter, UQC-5, 5 mm Tube x QC | TUBE & LTO ASSEMBLY | | 1/2" PVC-5 QC | | |
|-------------|--------------------------------|---------------------|---------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| | | 5 mm x 30" (76 cm) | 5 mm x 48" (122 cm) | 16" Stake x 5 mm x 30" (76 cm) Tubing | 22" Stake x 5 mm x 30" (76 cm) Tubing | 22" Stake x 5 mm x 48" (76 cm) Tubing |
| PART NO. | 12990-001 | 11283-030 | 11283-048 | 13089-21630 | 13089-22230 | 13089-22248 |

NOTE: The 1/2 PVC-5 (page 38) can also be used with the S7 sprinkler. *12972 QC x Female ACME adapter is required.



16" QC4 (4 MM) STAKE & TUBE ASSEMBLY (#12983-OXX) & PARTS

| DESCRIPTION | QC4 Stake for 4 mm tubing | TUBE & LTO ASSEMBLY | | QC4, STAKE & TUBE ASSY | |
|-------------|---------------------------|---------------------|---------------------|-----------------------------------|-----------------------------------|
| | | 4 mm x 30" (76 cm) | 4 mm x 48" (122 cm) | 16" Stake x 30" (76 cm) 4 mm Tube | 16" Stake x 30" (76 cm) 4 mm Tube |
| PART NO. | 12981-002 | 9960-930 | 9960-948 | 12983-030 | 12983-048 |

Use QC Stake Install Tool 13429 to pre-drill holes for the QC4 and QC5 stakes. This ensures that the stakes will be installed without any bending and in an upright position.



16" QC5 (5 MM) STAKE & TUBE ASSEMBLY (#12982-OXX) & PARTS

| DESCRIPTION | QC5 Stake for 5 mm tubing | TUBE & LTO ASSEMBLY | | QC5, STAKE & TUBE ASSY | |
|-------------|---------------------------|---------------------|---------------------|---|--|
| | | 5 mm x 30" (76 cm) | 5 mm x 48" (122 cm) | 16" (40 cm) Stake x 30" (76 cm) 5 mm Tube | 16" (40 cm) Stake x 48" (122 cm) 5 mm Tube |
| PART NO. | 12981-001 | 11283-030 | 11283-048 | 12982-030 | 12982-048 |

TOOLS & PARTS FOR S7, J7 STAKE & TUBE ASSEMBLIES

| DESCRIPTION | PART NO. |
|--|-----------|
| Tube, 4 mm x 1000' (305 m) Coil | 10081-002 |
| Tube, 4 mm x 328' (100 m) Coil | 10081 |
| Punch Tool, 4 mm Green | 10997 |
| Coupler, 4 mm Barb x 5 mm Barb | 13142 |
| LTO, 4 mm, Barb x Barb | 10080 |
| Tube & LTO Assembly, 4 mm x 30" (76 cm) | 9960-930 |
| Goof plug, 4 mm LTO & 5 mm LTO (Order in multiples of 6) | 13435 |

| | |
|--|-----------|
| Tube, 5 mm x 1000' (305 m) Coil | 9284 |
| Tube, 5 mm x 328' (100 m) Coil | 9284-002 |
| Punch Tool, 5 mm Red | 9349 |
| LTO, 5 mm, Barb x Barb | 12023 |
| Tube & LTO Assembly, 5 mm x 72" (183 cm) | 11283-072 |
| Stake installation Tool, QC4/QC5/FT3 | 13429 |

5 MM STAKE & TUBE OPTIONS FOR THE R5 & R10



**5 MM ASSEMBLIES
MAX. FLOW LIMIT =
0.65 GPM (148 LPH)**
TO CONNECT THE S7, *12972
ADAPTER IS REQUIRED.
TO CONNECT THE R5, *10616
ADAPTER IS REQUIRED.



FT3 STAKE & TUBE ASSEMBLY (#13154-OXX) & PARTS

| DESCRIPTION | Stake, FT3, 16", Acme to 5mm Tubing | TUBE & LTO ASSEMBLY | | FT3, STAKE & TUBE ASSY | |
|-------------|---|---------------------|---------------------|--------------------------------------|---------------------------------------|
| | | 5 mm x 30" (76 cm) | 5 mm x 48" (122 cm) | 16" Stake x 30" (76 cm) 5 mm Tube | 16" Stake x 48" (122 cm) 5 mm Tube |
| PART NO. | 12981-003 | 11283-030 | 11283-048 | 13154-030 | 13154-048 |

FT2 ADAPTER & LTO ASSEMBLY (#9741-OXX) & PARTS

| DESCRIPTION | Adapter, FT2/FT4/ FT5, 5 & 10 mm Tube x 1/2" Acme | Stake Steel, 1/4" (6.3 mm) x 24" (61 cm) | Stake Fiberglass, 1/4" (6.3 mm) x 24" (61 cm) | FT2, ADAPTER & LTO ASSEMBLY* | | | |
|-------------|---|--|---|------------------------------|-----------------------------|-----------------------------|-----------------------------|
| | | | | 5 mm x 30" (76 cm) Tube | 5 mm x 48" (122 cm) Tube | 5 mm x 72" (183 cm) Tube | 5 mm x 96" (244 cm) Tube |
| PART NO. | 9677 | 9726-024 | 10040-024 | 9741-030 | 9741-048 | 9741-072 | 9741-096 |

*Does not include stake

1/2 PVC-5 STAKE & TUBE ASSEMBLY (#11284-2XXXX) & PARTS

| DESCRIPTION | Adapter Assy, 1/2" Male Acme - 1/2 PVC-5 (R5/10) | TUBE & LTO ASSEMBLY | | 1/2 PVC-5 STAKE & TUBE ASSEMBLY | | |
|-------------|--|---------------------|---------------------|--|---|---|
| | | 5 mm x 30" (76 cm) | 5 mm x 48" (122 cm) | 16" Stake x 30" (76 cm) 5 mm Tube | 22" Stake x 30" (76 cm) 5 mm Tube | 16" Stake x 48" (122 cm) 5 mm Tube |
| PART NO. | 11271 | 11283-030 | 11283-048 | 11284-21630 | 11284-22230 | 11284-22248 |
| | 5 mm Compression x Male Acme (Black) | | | Hole 5.5" from top, PVC Stake Adapter, 5 mm x 30" Tube w/ Barb | Hole 11.3" from top, PVC Stake Adapter, 5 mm x 30" Tube w/ Barb | Hole 11.3" from top, PVC Stake Adapter, 5 mm x 48" Tube w/ Barb |

FT1 REPAIR PARTS (5 MM)

| DESCRIPTION | PART NO. |
|--|-----------|
| FT1 Collar Adapter 3/8" FNPT | 9262 |
| Tube, 5 mm x 30" (76 cm) | 9284-030 |
| LTO, 5 mm, Compression x Barb | 9305 |
| LTO, 5 mm, Barb x Barb | 12023 |
| Tube & LTO Assembly, 5 mm x 30" (76 cm) | 11283-030 |
| Tube & LTO Assembly, 5 mm x 48" (122 cm) | 11283-048 |

5 mm Punch Tool



5 mm Drill Tool



Use Stake Installation Tool
10287 for 6.3mm Steel
Stake and 10288 for 8mm
Steel Stake

TOOLS & PARTS FOR 5 MM ASSEMBLIES

| DESCRIPTION | PART NO. |
|---|----------|
| Tube, 5 mm x 328' (100 m) Coil | 9284-002 |
| Tube, 5 mm x 1000' (305 m) Coil | 9284 |
| Tube, 5 mm x 30" (76 cm) | 9284-030 |
| Tube, 5 mm x 48" (122 cm) | 9284-048 |
| Stake Installation Tool for the 6.3 mm Stake | 10287 |
| Punch Tool, 5 mm Red | 9349 |
| Drill Punch Tool, 5 mm | 9835-003 |
| Converts FT2, FT4, & FT5 to 3/4" PVC Stake | 9195 |
| LTO, 5 mm, Compression x Barb | 9305 |
| 3/4" PVC Stake Adapter (5 mm x Male Acme) | 11429 |
| LTO, 5 mm, Barb x Barb | 12023 |
| Coupler, 4 mm Barb x 5 mm Barb | 13142 |
| Goof plug, 4 mm LTO & 5 mm LTO (Order in Multiples of 6) | 13435 |

FULL COVERAGE IRRIGATION / ROTATOR® SPRINKLERS

ROTATOR® TECHNOLOGY

CHOOSE A MODEL BASED ON TRAJECTORY, FLOW AND/OR THROW.

| | R5 | R10 | R10T | R2000 | R2000WF/LP | R33/R33LP |
|------------|------------------------------|---------------------------------|----------------------------------|----------------------------------|-----------------------------------|------------------------------------|
| FLOW | 9 to 29 GPH 34 to 110 LPH | 0.3 to 0.7 GPM 68 to 159 LPH | 0.6 to 2.1 GPM 136 to 477 LPH | 0.7 to 3.5 GPM 159 to 795 LPH | 0.9 to 5.7 GPM 204 to 1295 LPH | 2.9 to 11.1 GPM 659 to 2521 LPH |
| RADIUS | 7 to 18' 2.1 to 5.5 m | 18 to 27' 5.5 to 8.2 m | 20 to 33' 6.1 to 10.1 m | 21 to 37' 6.4 to 11.3 m | 31 to 45' 9.4 to 13.7 m | 37 to 51' 11.3 to 15.5 m |
| TRAJECTORY | 6°, 9° & Inverted 6° | 9° & 15° | 9°, 15° & 24° | 6°, 9°, 12°, 15° & 24° | 25° | 25° |

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CHOOSE FROM THESE ROTATOR® SPRINKLERS FOR UNDER-TREE IRRIGATION AND ENVIRONMENTAL CONTROL OF TREE FRUIT, VINE, TREE NUT CROPS (USE LOW TRAJECTORY PLATES) — AND OVERHEAD IRRIGATION, COOLING AND ENVIRONMENTAL CONTROL IN TREE, VINE, SMALL FRUIT AND NURSERY CROPS.

SYSTEM TYPES INCLUDE SOLID SET USING EITHER PVC PIPE OR POLYETHYLENE PIPE LATERALS, AND PORTABLE PIPES INCLUDING ALUMINUM, POLYETHYLENE AND PVC.

OVERHEAD IRRIGATION, COOLING AND ENVIRONMENTAL CONTROL FOR NURSERY CROPS, TREE, VINE, SMALL FRUIT AND BERRY CROPS. REVEGETATION, MINING AND OTHER SPECIALTY USES. SYSTEM TYPES INCLUDE: PORTABLE PIPE SUCH AS ALUMINUM, POLYETHYLENE, AND PVC. SIDE ROLL AND PERMANENT SOLID SET SYSTEMS.

PROBLEM

"I'm putting in some hazelnut trees, and I'd like to plant strawberries as a cover crop to have an income before the hazelnuts start producing.



"The R10 or R10T is a perfect fit for hazelnut orchards. A low application, full coverage irrigation system is ideal for trees and growing a cover crop.



MICRO + FULL COVERAGE IRRIGATION / R5 ROTATOR®

R5



9836-XXX

PLATE
Green 9° = 1
Wine 5° = 2
Blue 6° = 3

NOZZLE
*35 Orange
*40 Blue
*45 Purple
*50 Green
*55 Yellow

FLOW CONTROL NOZZLE
*09 (8.5) GPH Orange
*11 GPH Blue
*14 GPH Purple
*18 GPH Yellow
*24 GPH Red

| DESCRIPTION | Standard R5 Assembly including Plate & Nozzle | R5 Assembly including Plate & FCN Nozzle |
|-------------|---|--|
| PART NO. | 9836-XXX | 9836-XXX |
| BOX | 12x12x5" | 12x12x5" |
| QTY/BOX | 1000 (200/bag) | 1000 (200/bag) |
| LBS/BOX | 7 | 7 |

Specify plates and nozzles from above left.

| DESCRIPTION | Acme x Drip Configuration | R5 Deflector Cap (Shown on R5 w/ 10616) | R5 1-Sided Stream Splitter (Shown on R5 w/ 10616) | R5 2-Sided Stream Splitter (Shown on R5 w/ 10616) | 1/2" Female Acme x R5 adapter | R5 Installation Tool |
|-------------|--|---|---|---|---|--|
| PART NO. | 12431 | 10951 | 10746 | 10976 | 10616 | 11108 |
| | Female acme x barbed tee to alternate Rotator sprinklers & drip. (500/box, 6 lbs./box, 12x12x5") | Reduce the R5 radius down to 3-4 feet (0.9-1.2 m) for watering newly planted trees. | Protects tree trunks – use when R5s are mounted 2-4 feet (0.6-1.2 m) from a tree. | Protects tree trunks – use when R5 Rotators are centered between two trees. | Connect the R5 sprinkler to Acme Adapter threads. | Make installing the R5 sprinkler simple. |

4 MM STAKE & TUBE OPTIONS FOR THE R5

4 MM ASSEMBLIES MAX. FLOW LIMIT = 20 GPH (76 LPH)
5 MM ASSEMBLIES MAX. FLOW LIMIT = 0.65 GPM (148 LPH)

FT-01 STAKE & TUBE ASSEMBLY (#1074X-0XX) & PARTS



| DESCRIPTION | Tube & LTO Assembly, 4mm x 24" (61 cm) | Tube & LTO Assembly, 4 mm x 30" (76 cm) | Tube & LTO Assembly, 4 mm x 36" (91 cm) | Stake 12" (300 mm) | Stake 17.5" (450 mm) | FT-01 Stake & Tube Assy 12" Stake x 24" 4 mm Tube | FT-01 Stake & Tube Assy 12" Stake x 36" 4 mm Tube | FT-01 Stake & Tube Assy 17" Stake x 36" 4 mm Tube |
|-------------|--|---|---|--------------------|----------------------|---|---|---|
| PART NO. | 9960-924 | 9960-930 | 9960-936 | 10847 | 10848 | 10745-024 | 10745-036 | 10744-036 |
| | 4 mm Barb Assembly | 4 mm Barb Assembly | 4 mm Barb Assembly | Stake 12" (300 mm) | Stake 17.5" (450 mm) | 4 mm x 24" Tube w/Barb | 4 mm x 36" Tube w/Barb | 4 mm x 36" Tube w/Barb |

30" feedtube not available as stake assembly. The FT-02 assembly for the inverted mount of the R5 requires Adapter, Feedtube & LTO, (2) Hanger Rod Clips and a Fiberglass Plastic Rod Stake or Steel Rod Stake.

TOOLS & PARTS FOR 4 MM ASSEMBLIES

| DESCRIPTION | PART NO. |
|--|-----------|
| Tube, 4 mm x 328' (100 m) Coil | 10081 |
| Tube, 4 mm x 1000' (305 m) Coil | 10081-002 |
| Punch Tool, 4 mm Green | 10997 |
| Stake Installation Tool for the 6.3 mm Stake | 10287 |
| LTO, 4 mm, Barb x Barb | 10080 |
| Goof plug, 4 mm LTO & 5 mm LTO (Order in Multiples of 6) | 13435 |
| Hanger Rod Clip (2 required for inverted mounting) | 9987 |
| Coupler, 4 mm Barb x 5 mm Barb | 13142 |
| Adapter, FT-02/FT-03, 4 mm Tube x R5 x Rod Stake | 10136 |

R10












9913-XXXX

THREAD
3/8" = 0
1/2" = 1
Acme = 2

PLATE
Red = 1
White = 2
Orange = 7

EXAMPLE:
R10 Rotator®
with 1/2" Thread (1),
White Plate (2) and Red
#60 Nozzle (60) =
#9913-1260

| PLATE OPTIONS | NOZZLE OPTIONS | FLOW @ 35 PSI (2.5 BAR) |
|--|---|-------------------------|
| P2  P2 9° Red *9460 |  Lt. Blue *40 *9306-040 | 0.28 GPM (64.7 LPH) |
| |  Lt. Purple *45 *9306-045 | 0.35 (80.6) |
| |  Dk. Green *50 *9306-050 | 0.43 (99.4) |
| | .35 10FC | 0.35 (79.8) |
| | .43 10FC | 0.43 (99.4) |
| P4  P4 9° White *9208  P4 15° Orange *10882 |  Dk. Green *50 *9306-050 | 0.43 (99.4) |
| |  Lt. Yellow *55 *9306-055 | 0.52 (120) |
| |  Lt. Red *60 *9306-060 | 0.61 (141) |
| | .50 10FC | 0.50 (114) |

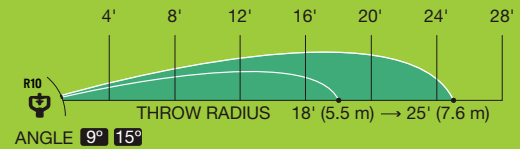
Assembled R10 Body, Plate & Flow Control Nozzle

| | |
|----------|---|
| 9587-351 | R10 1/2", P2 9° RED PLATE, .35 10FC |
| 9587-352 | R10 ACME, P2 9° RED PLATE, .35 10FC |
| 9587-431 | R10 1/2", P2 9° RED PLATE, .43 10FC |
| 9587-432 | R10 ACME, P2 9° RED PLATE, .43 10FC |
| 9587-501 | R10 1/2", P4 9° WHITE PLATE, .50 10FC |
| 9587-502 | R10 ACME, P4 9° WHITE PLATE, .50 10FC |
| 9587-601 | R10 1/2", P4 15° ORANGE PLATE, .50 10FC |
| 9587-602 | R10 ACME, P4 15° ORANGE PLATE, .50 10FC |

Flow in GPM (LPH).

ULTRA-RELIABLE, LOW-VOLUME SPRINKLERS

Filling the need for small, low-volume sprinklers that perform reliably in the mid-range between micro and a regular size sprinkler, R10 & R10T Rotators are right on target.



R10T



9914-XXXX

THREAD
3/8" = 0
1/2" = 1
Acme = 2

PLATE
Blue = 3
Purple = 4
Brown = 5
Gold = 6

EXAMPLE:
R10T Rotator®
with Acme Thread (2),
Brown Plate (5) and
Purple #12 Nozzle (94) =
#9914-2594

| PLATE OPTIONS | NOZZLE OPTIONS | FLOW @ 35 PSI (2.5 BAR) |
|--|---|---|
| P6  P6 9° Blue *9350  P6 15° Purple *9723 |  Gray *65 / #8.3 *9306-065 | 0.72 GPM (166LPH) |
| |  White *70 / #9 *9306-070 | 0.83 (192) |
| |  Dk. Blue *78 / #10 *9306-078 | 1.05 (242) |
| P8  P8 15° Gold *10684  P8 24° Brown *10601 | .75 10FC | 0.75 (170) |
| | 1.0 10FC | 1.00 (227) |
| |  Orange *86 / #11 *9306-086 | 1.27 (294) |
| |  Purple *94 / #12 *9306-094 | 1.50 (347) |
| |  Yellow *102 / #13 *9306-102 | 1.78 (411) |
| | 1.25 10FC | 1.25 (284) |
| 1.50 10FC | 1.50 (341) | |
| Dk. Blue *10 and 1.0 10FC for use with P8 24° plate only. | | *10 = 1.05 (242) 1.0 10FC = 1.00 (227) |

Assembled R10T Body, Plate & Flow Control Nozzle

| | |
|-----------|---|
| 9587-754 | R10T 1/2", P6 15° PURPLE PLATE, .75 10FC |
| 9587-851 | R10T 1/2", P6 15° PURPLE PLATE, 1.00 10FC |
| 9587-757 | R10T 1/2", P6 9° BLUE PLATE, .75 10FC |
| 9587-759 | R10T 1/2", P6 9° BLUE PLATE, 1.00 FC |
| 9587-1128 | R10T 1/2", P8 15° GOLD PLATE, 1.25 10FC |
| 9587-1153 | R10T 1/2", P8 15° GOLD PLATE, 1.50 10FC |
| 9587-1101 | R10T 1/2", P8 24° BROWN PLATE, 1.00 10FC |
| 9587-1126 | R10T 1/2", P8 24° BROWN PLATE, 1.25 10FC |
| 9587-1151 | R10T 1/2", P8 24° BROWN PLATE, 1.50 10FC |
| 9587-755 | R10T ACME, P6 15° PURPLE PLATE, .75 10FC |
| 9587-850 | R10T ACME, P6 15° PURPLE PLATE, 1.00 10FC |
| 9587-756 | R10T ACME, P6 9° BLUE PLATE, .75 10FC |
| 9587-758 | R10T ACME, P6 9° BLUE PLATE, 1.00 10FC |
| 9587-1127 | R10T ACME, P8 15° GOLD PLATE, 1.25 10FC |
| 9587-1152 | R10T ACME, P8 15° GOLD PLATE, 1.50 10FC |
| 9587-1100 | R10T ACME, P8 24° BROWN PLATE, 1.00 10FC |
| 9587-1125 | R10T ACME, P8 24° BROWN PLATE, 1.25 10FC |
| 9587-1150 | R10T ACME, P8 24° BROWN PLATE, 1.50 10FC |

Flow in GPM (LPH).

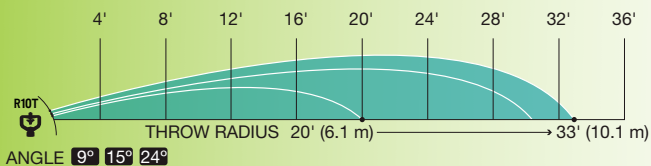
R10/R10T

ROTATOR® SPRINKLERS



| DESCRIPTION | Body Assembly – Less Nozzle & Plate | Plate P2 9°, P4 9°, P4 15°, P6 9°, or P6 15° | Plate P8 15° or P8 24° | 2TN Nozzle (Nozzle options *40 to *102) | Body, Plate & 2TN Nozzle (Specify 3/8", 1/2" or Acme) | Body, P8 24° or P8 15° Plate & 2TN Nozzle | Body, Plate & 10FC Nozzle (Specify 1/2" or Acme) | Body, P8 24° or P8 15° Plate & 10FC Nozzle | Adapter (Male Acme x 3/8", 1/2" or 3/4" MNPT) | PVC Adapter (Male Acme x 1/2", 3/4" or 25 mm Slip) |
|-------------|-------------------------------------|--|------------------------|---|---|---|--|--|---|--|
| BOX | 12x12x11" | 12x12x5" | 12x12x5" | 12x12x5" | 12x12x11" | 12x12x11" | 12x12x11" | 12x12x11" | 14x14x9" (or 13") | 14x14x13" |
| QTY/BOX | 400 | 2500 | 2500 | 1200 | 400 | 400 | 400 | 400 | 1000 (100/bag) | 500 |
| LBS/BOX | 11 | 9 | 9 | 4 | 14 | 14 | 15 | 15 | 17/20/26 | 20/25/24 |

R10 sprinklers ordered less nozzle or less nozzle and plate are only in box quantities of 400.



STAKE AND TUBE OPTIONS FOR ANY APPLICATION. SEE PAGES 38-39.

FT2; FT3; 1/2 PVC-5; 3/4 PVC-5; FT4; 3/4 PVC-10; FT5



ACCESSORIES

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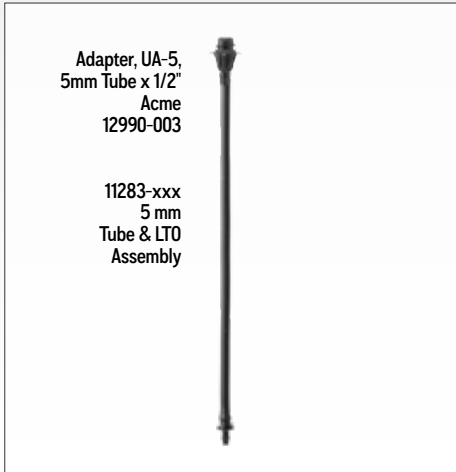
| DESCRIPTION | R10 One-Sided Stream Splitter | R10 Two-Sided Stream Splitter | Low Angle Road Guard | High Angle Road Guard | 2TN Nozzle Removal Tool |
|-------------|---|---|---|---|--|
| PART NO. | 11285 | 11275 | 9590-030 | 9879 | 10634 |
| | Protect adjacent tree trunks by creating a small wedge shape in the wetted pattern. | Protect adjacent tree trunks by creating a small wedge shape in the wetted pattern. | Snap on to convert to part-circle operation (irrigates 200"). (300/box, 13 lbs./box, 13x13x17") | Snap on to convert to part-circle operation (irrigates 200"). (325/box, 14 lbs./box, 13x13x17") | Easily removes the nozzle from R10/R10T. |

| DESCRIPTION | 1/2" Male Acme X PVC Socket Adapter | 1/2" Male Acme X MNPT Adapter | 1/2" Acme Cap | 1/2" Female Acme X 1/2" PVC Spigot | 1/2" Female x 1/2" Male Acme Pressure Gauge Tap Kit |
|-------------|---|---|---|---|---|
| PART NO. | | | 10615 | 10352 | 10366-001 10366-002 10366-003 |
| | 1/2" - 10060-001 3/4" - 10060-002 25 mm - 10060-003 | 3/8" - 9465 1/2" - 9316-002 3/4" - 9466 | Connects to Acme thread and acts as a shut-off cap. | Enables easy attachment to a PVC riser. (300/box, 5 lbs./box, 8x8x6") | 0-60 PSI 0-100 PSI 0-160 PSI |
| | | | | | 10367 Kit without gauge |

INTRODUCING THE NEW UA-5 UNIVERSAL MOUNTING CONFIGURATIONS

ALL REQUIRE:
UA-5 ASSEMBLY OR PARTS

(5 MM) UA-5, ADAPTER & LTO ASSEMBLY (13693-XXX*) & PARTS



| DESCRIPTION | Adapter, UA-5, 5mm Tube x 1/2" Acme | TUBE & LTO ASSEMBLY | | UA-5**, ADPT & LTO ASSY | |
|-------------|---|-----------------------|------------------------|----------------------------|-----------------------------|
| | | 5 mm x 30" (76 cm) | 5 mm x 48" (122 cm) | 5 mm x 30" (76 cm) Tube | 5 mm x 48" (122 cm) Tube |
| PART NO. | 12990-003 | 11283-030 | 11283-048 | 13693-030 | 13693-048 |

UA-5 (13693-xxx) configurations include a UA-5 Adapter and Tube & LTO Assembly.

ROD STAKE OPTIONS & ADAPTER*

| DESCRIPTION | Universal Rod Stake Adapter (for 6.3mm & 8mm Stakes) | Stake Steel, 1/4" (6.3mm) x 24" (61 cm) | Stake, Fiberglass, 5/16" (8 mm) x 24" (61 cm) |
|-------------|--|---|---|
| PART NO. | 13608 | 9726-024 | 10160 |

PVC STAKE OPTIONS

| DESCRIPTION | Stake, PVC with hole, 1/2" x 16" (40 cm) | Stake, PVC with hole, 1/2" x 22" (56 cm) |
|-------------|--|--|
| PART NO. | 11259-216 | 11259-222 |

OPTION 1: ROD STAKE CONFIGURATION

13608 Rod Stake Adapter

(shown above) Stake

Shown Assembled

Rod Stake Option requires Universal Rod Stake Adapter (13608) and 8 mm Steel or Fiberglass Stake.

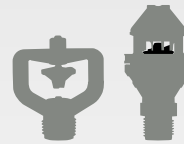
OPTION 2: PVC STAKE CONFIGURATION

(4 mm) UQC-4, Adapter & LTO Assembly 13092-xxx or (5 mm) UQC-5, Adapter & LTO Assembly 13091-xxx

11259-216 or 11259-222 PVC Stake

Choose from 16" or 22" PVC stake.

10 MM STAKE & TUBE OPTIONS FOR R10-R2000WF



**10 MM ASSEMBLIES
MAX. FLOW LIMIT =
2.4 GPM (545 LPH)**



FT4 ADAPTER & LTO ASSEMBLY (#9752-036) & PARTS

| DESCRIPTION | Adapter, FT2/FT4/ FT5, 5 & 10 mm Tube x 1/2" Acme | Tube, 10mm x 36" (91 cm) | LTO, 10 mm Tube x 7 mm Barb | Stake Steel, 5/16" (8 mm) x 24" (61 cm) | Stake, Fiberglass, 5/16" (8 mm) x 24" (61 cm) | FT4 Total (Components Only) | FT4*, Adapter & LTO Assy, 10 mm x 36" (91 cm) Tube |
|-------------|---|-----------------------------|--------------------------------|---|---|-----------------------------------|--|
| PART NO. | 9677 | 9099-036 | 9774 | 9725-024 | 10160 | | 9752-036 |

*Does not include stake



3/4" PVC-10 STAKE & TUBE ASSEMBLY (#11452-12236) & PARTS

| DESCRIPTION | 3/4" PVC Stake Adapter | Tube, 10mm x 36" (91 cm) | LTO, 10 mm Tube x 7 mm Barb | 3/4" PVC-10, Stake/Tube Assy, 22" Stake x 36" 10mm Tube |
|-------------|----------------------------------|-----------------------------|--------------------------------|---|
| PART NO. | 11429 | 9099-036 | 9774 | 11452-12236 |
| | 10 mm Compression x Male Acme | | | Hole 11.3" from top, PVC Stake Adapter, 10 mm x 36" Tube w/ Barb |



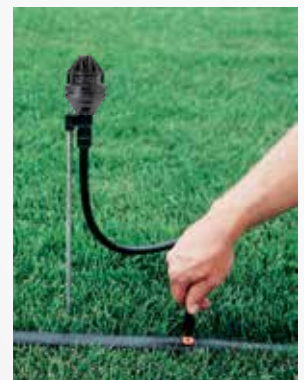
FT5 ADAPTER & LTO ASSEMBLY (#9737-048) & PARTS

| DESCRIPTION | Adapter, FT2/FT4/ FT5, 5 & 10 mm Tube x 1/2" Acme | Tube, 10mm x 42" (107 cm) | QC LTO, 10 mm Compression x Male QC | QC Barb, Female QC x 10 mm Barb | Stake Steel, 5/16" (8 mm) x 48" (122 cm) | FT5 Total (Components only) | FT5, Adapter & LTO Assembly, 10mm x 48" (122 cm) Tube |
|-------------|---|------------------------------|---|---------------------------------------|--|-----------------------------------|---|
| PART NO. | 9677 | 9099-048 | 9740 | 9739 | 9725-048 | | 9737-048 |

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TOOLS & PARTS FOR 10 MM ASSEMBLIES

| DESCRIPTION | PART NO. |
|--|----------|
| Tube, 10mm x 500' (152 m) Coil | 9099 |
| Punch Tool, 7 mm Blue | 9810 |
| Drill Punch Tool, 7 mm | 9835-002 |
| Goof Plug, 7 mm LTO | 10301 |
| Hand Punch Tool, 10 mm (White) | 9776 |
| Drill Punch Tool, 10 mm | 9835-001 |
| Drill Installation Tool, installs #9739 (QC Barb) of FT5 | 9845 |
| Stake Installation Tool for the 8 mm Stake | 10288 |
| FT5 Plug, Rubber (fits inside of #9739 QC Barb) | 9826 |
| Goof plug, 10 mm LTO | 9831 |
| Converts FT2, FT4, & FT5 to 3/4" PVC Stake | 9195 |
| 3/4" PVC-10, FT4 & FT5 Coupler 10 mm | 9813 |
| Adapter, 1/2" PVC Spigot x 10mm Tube Compression | 10623 |



R2000

HOW TO ORDER

Assembled
Cap, Body & 2TN
#11991-xxxx

Assembled
Cap, Body & FCN
#11992-xxxx

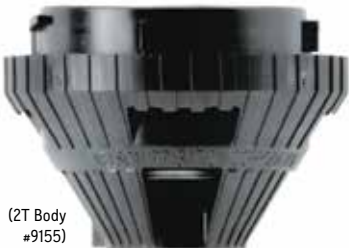


40



Cap Assembly
with Plate
#10519-1xxx

Nozzle & 2T Body
Assy #10533-xxx
or Flow Control
Nozzle & Body
Assy #9223-xxx



(2T Body
#9155)



Need Male Acme x PVC Adapter
or Male Acme x MNPT Adapter

| | PLATE | CAP ASSEMBLY W/ PLATE | NOZZLE | | NOZZLE & BODY ASSY | ASSEMBLED CAP, BODY & NOZZLE | FLOW IN GPM / LPH @ 40 PSI / 3 BAR |
|---|--|--------------------------|--------------|----------|-----------------------|------------------------------------|--|
|  | K1 6° Cream 9516-106 | 10519-1106 | ● Gray *8.3 | 9306-065 | 10533-008 | 11991-0108 | 0.77 / 183 |
| | | | 0.85 2000FC | | 9223-085 | 11992-0108 | 0.85 / 193 |
|  | K2 6° Light Blue 9516-206 | 10519-1206 | ○ White *9 | 9306-070 | 10533-009 | 11991-0209 | 0.89 / 210 |
| | | | ● Blue *10 | 9306-078 | 10533-010 | 11991-0210 | 1.12 / 266 |
| | | | 1.0 2000FC | | 9223-100 | 11992-0210 | 1.00 / 227 |
|  | K2 9° Green 9516-209 | 10519-1209 | ● Gray *8.3 | 9306-065 | 10533-008 | 11991-0308 | 0.77 / 183 |
| | | | ○ White *9 | 9306-070 | 10533-009 | 11991-0309 | 0.89 / 210 |
| | | | ● Blue *10 | 9306-078 | 10533-010 | 11991-0310 | 1.12 / 266 |
| | | | 0.85 2000FC | | 9223-085 | 11992-0308 | 0.85 / 193 |
| | | | 1.0 2000FC | | 9223-100 | 11992-0310 | 1.00 / 227 |
|  | K2 15° Yellow 9516-215 | 10519-1215 | ● Gray *8.3 | 9306-065 | 10533-008 | 11991-0408 | 0.77 / 183 |
| | | | ○ White *9 | 9306-070 | 10533-009 | 11991-0409 | 0.89 / 210 |
| | | | ● Blue *10 | 9306-078 | 10533-010 | 11991-0410 | 1.12 / 266 |
| | | | 0.85 2000FC | | 9223-085 | 11992-0408 | 0.85 / 193 |
| | | | 1.0 2000FC | | 9223-100 | 11992-0410 | 1.00 / 227 |
|  | K3 9° Brown 9516-309 | 10519-1309 | ● Orange *11 | 9306-086 | 10533-011 | 11991-0511 | 1.36 / 323 |
| | | | ● Purple *12 | 9306-094 | 10533-012 | 11991-0512 | 1.61 / 380 |
| | | | 1.25 2000FC | | 9223-125 | 11992-0512 | 1.25 / 284 |
| | | | 1.5 2000FC | | 9223-150 | 11992-0515 | 1.50 / 341 |
|  | K3 15° Red 9516-315 | 10519-1315 | ● Orange *11 | 9306-086 | 10533-011 | 11991-0611 | 1.36 / 323 |
| | | | ● Purple *12 | 9306-094 | 10533-012 | 11991-0612 | 1.61 / 380 |
| | | | 1.25 2000FC | | 9223-125 | 11992-0612 | 1.25 / 284 |
| | | | 1.5 2000FC | | 9223-150 | 11992-0615 | 1.50 / 341 |
|  | K3 24° Gray 9516-324 | 10519-1324 | ● Orange *11 | 9306-086 | 10533-011 | 11991-0711 | 1.36 / 323 |
| | | | ● Purple *12 | 9306-094 | 10533-012 | 11991-0712 | 1.61 / 380 |
| | | | 1.25 2000FC | | 9223-125 | 11992-0712 | 1.25 / 284 |
| | | | 1.5 2000FC | | 9223-150 | 11992-0715 | 1.50 / 341 |
|  | K4 6° Turquoise 9516-406 | 10519-1406 | ● Yellow *13 | 9306-102 | 10533-013 | 11991-0813 | 1.90 / 451 |
| | | | ● Green *14 | 9306-109 | 10533-014 | 11991-0814 | 2.15 / 509 |
| | | | 1.5 2000FC | | 9223-150 | 11992-0815 | 1.50 / 341 |
| | | | 2.0 2000FC | | 9223-200 | 11992-0820 | 2.00 / 454 |
|  | K4 9° Purple 9516-409 | 10519-1409 | ● Yellow *13 | 9306-102 | 10533-013 | 11991-0913 | 1.90 / 451 |
| | | | ● Green *14 | 9306-109 | 10533-014 | 11991-0914 | 2.15 / 509 |
| | | | 1.5 2000FC | | 9223-150 | 11992-0915 | 1.50 / 341 |
| | | | 2.0 2000FC | | 9223-200 | 11992-0920 | 2.00 / 454 |
|  | K4 12° Wine 9516-412 | 10519-1412 | ● Yellow *13 | 9306-102 | 10533-013 | 11991-1013 | 1.90 / 451 |
| | | | ● Green *14 | 9306-109 | 10533-014 | 11991-1014 | 2.15 / 509 |
| | | | 1.5 2000FC | | 9223-150 | 11992-1015 | 1.50 / 341 |
| | | | 2.0 2000FC | | 9223-200 | 11992-1020 | 2.00 / 454 |
|  | K4 15° Gold 9516-415 | 10519-1415 | ● Yellow *13 | 9306-102 | 10533-013 | 11991-1113 | 1.90 / 451 |
| | | | ● Green *14 | 9306-109 | 10533-014 | 11991-1114 | 2.15 / 509 |
| | | | 1.5 2000FC | | 9223-150 | 11992-1115 | 1.50 / 341 |
| | | | 2.0 2000FC | | 9223-200 | 11992-1120 | 2.00 / 454 |
|  | K4 24° Black 9516-424 | 10519-1424 | ● Yellow *13 | 9306-102 | 10533-013 | 11991-1213 | 1.90 / 451 |
| | | | ● Green *14 | 9306-109 | 10533-014 | 11991-1214 | 2.15 / 509 |
| | | | 1.5 2000FC | | 9223-150 | 11992-1215 | 1.50 / 341 |
| | | | 2.0 2000FC | | 9223-200 | 11992-1220 | 2.00 / 454 |
|  | K5 9° Orange 9516-509 | 10519-1509 | ● Tan *15 | 9306-117 | 10533-015 | 11991-1315 | 2.53 / 597 |
| | | | ● Red *16 | 9306-125 | 10533-016 | 11991-1316 | 2.89 / 685 |
| | | | 2.5 2000FC | | 9223-250 | 11992-1325 | 2.50 / 568 |
|  | K5 15° Tan 9516-515 | 10519-1515 | ● Tan *15 | 9306-117 | 10533-015 | 11991-1415 | 2.53 / 597 |
| | | | ● Red *16 | 9306-125 | 10533-016 | 11991-1416 | 2.89 / 685 |
| | | | 2.5 2000FC | | 9223-250 | 11992-1425 | 2.50 / 568 |
|  | K5 24° Blue 9516-524 | 10519-1524 | ● Tan *15 | 9306-117 | 10533-015 | 11991-1515 | 2.53 / 597 |
| | | | ● Red *16 | 9306-125 | 10533-016 | 11991-1516 | 2.89 / 685 |
| | | | 2.5 2000FC | | 9223-250 | 11992-1525 | 2.50 / 568 |

R2000

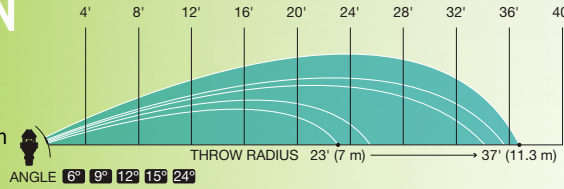
ROTATOR® SPRINKLERS



| DESCRIPTION | Cap Assembly – Less Plate | Plates | Cap Assembly & Plate (Assembled) | 2T Body (Female Acme Thread) | 2TN Nozzle (Nozzle options *8.3 to *16) | 2T Body & 2TN Nozzle (Assembled) | 2000FC Nozzle Body (Female Acme Thread) | *Total with 2TN Nozzle | *Total with 2000FC Nozzle | Adapter (Male Acme x 3/8", 1/2" or 3/4" MNPT) | *Total with 2TN Nozzle & Threaded Adapter | *Total with 2000FC Nozzle & Threaded Adapter | PVC Adapter (Male Acme x 1/2", 3/4" or 25 mm Slip) |
|-------------|---------------------------|-----------|----------------------------------|------------------------------|---|----------------------------------|---|------------------------|---------------------------|---|---|--|--|
| BOX | 13x13x17" | 12x12x11" | 12x12x11" | 12x12x11" | 12x12x5" | 12x12x11" | 12x12x11" | 12x12x11" | 12x12x11" | 14x14x9" (or 13") | | | 14x14x13" |
| QTY/BOX | 400 | 500 | 125 | 250 | 1200 | 250 | 250 | 100 | 100 | 1000 (100/bag) | | | 500 |
| LBS/BOX | 18 | 3 | 14 | 24 | 4 | 9 | 14 | 14 | 14 | 17/20/26 | | | 20/25/24 |

PERFORMANCE FOR EVERY APPLICATION

Nelson Irrigation's full range of flow, throw and trajectory options in the R2000 Rotator® make it a perfect fit for a number of different applications including below canopy irrigation & over canopy cooling.



STAKE AND TUBE OPTIONS FOR ANY APPLICATION. SEE PAGE 39.

FT4; 3/4 PVC-10; FT5



ACCESSORIES

{SEE PAGE 45 FOR ADDITIONAL ADAPTER OPTIONS & ACME ACCESSORIES.}



| DESCRIPTION | NEW STYLE ROAD GUARD | LEGACY ROAD GUARDS | | FLUSH TOOL | R2000 COW WASH | NEW STYLE MOTOR REMOVAL TOOL |
|-------------|---|---------------------------------------|--|--|--|---------------------------------------|
| PART NO. | 12213-001 | 9590-030 | 9879 | 9210 | 11993-xxxx (assembled) | 12215 |
| | Snap on new style R2000(WF) to convert to part-circle operation (irrigates 190°). | Low Angle Road Guard (irrigates 200°) | High Angle Road Guard (irrigates 200°) | Used to allow cleaning and flushing of the sprinkler without shutting the system down. Also a motor removal tool for legacy R2000. | Cap Assy; K4 12" Plate; 2T Body; 2TN Nozzle (*14, *16, *18); Adapter | Removes the motor from the R2000(WF). |



| DESCRIPTION | CAP REMOVAL TOOL | R2000 PLATE REMOVAL TOOL | 2TN NOZZLE REMOVAL TOOL | R2000 STREAM SPLITTER | LEGACY R2000 STREAM SPLITTER | WEB GUARD |
|-------------|---|---------------------------------------|---|---|--|---|
| PART NO. | 10689 | 9620 | 12260 | 12056 | 12057 | 9895-001 |
| | Easily removes the cap assembly on the R2000(WF). | Removes the plate from the R2000(WF). | Easily removes the nozzle from R2000(WF). | Protect adjacent tree trunks by creating a small wedge shape in the wetted pattern. | Use on Legacy Style R2000 to protect adjacent tree trunks. | Place guard into R2000 body to protect nozzle area from spider web intrusion. |

THIS IS WHAT UNIFORMITY LOOKS LIKE

MADE POSSIBLE WITH A PRODUCT
PACKAGE LIKE NO OTHER.

42



ROTATOR® TECHNOLOGY IS
CERTAINLY MAKING ITS MARK
ON SOLID SET IRRIGATION.

The R2000WF has been effectively obsoleting
1/2" brass impacts everywhere by providing
superior uniformity in real-world conditions.
Imitation products just don't compare.

DRAIN CHECK

Combine the R2000WF
with a Mini Regulator Drain
Check or Mini Drain Check
and you ensure no drain
down on system start up
and shut down. Pressure
regulation means each
sprinkler is putting out
the same amount of water
further contributing
to high crop uniformity.





PROBLEM

"The onions at the end of the rows aren't as uniform in size as the interior plants because they're not getting proper overlap in watering."



"The PC-R2000WF is a Part-Circle Rotator that distributes water in a 190-degree arc. It is intended to irrigate the edge of a field where full circle Rotators are used in the interior. Designed with uniformity in mind."

CONTROL VALVE

2", 3" & 4" 1000 SERIES. Nelson's plastic, low profile, sleeve-style valve is great for zone control. A completely pressurized system maximizes irrigation efficiency. The 2" size has a spline connection option which allows for easy installation with plastic pipe.



AUTOMATION

TWIG® WIRELESS CONTROLS. Automate and remotely control and monitor your irrigation system from anywhere with our new TWIG® Wireless Controls mobile app and next generation TWIG® components.



R2000WF WINDFIGHTER

HOW TO ORDER

Complete R2000WF
Cap & Body Assembly
(see table below)

Complete R2000LP
Cap & Body Assembly
(see table below)

(Body 9920)

Optional Color Band for Nozzle I.D.
See Part Numbers below.
(No factory assembly.)



OR



R2000WF
Cap Assembly
10299-1xx
(xx = plate #)

R2000LP
Cap Assembly
10299-2xx
(xx = plate #)

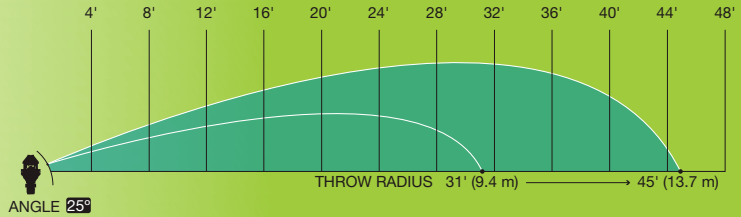
Body & Nozzle
Assembly
9920-0xx
(xx = nozzle #)

1/2" Female Acme Threaded Connection

HIGH UNIFORMITY IN REAL WORLD CONDITIONS

44

The R2000WF is obsoleting 1/2" brass impacts everywhere. With no riser vibration, better performance, a low cost and less maintenance, the choice is simple.



R2000LP now has easy
to identify green cap.

| PLATE | NOZZLES | NOZZLE DIAM. IN INCHES | OPTIONAL COLOR BAND (NOZZLE I.D.) | COMPLETE R2000WF CAP & BODY ASSY | WF MOTOR COLOR | COMPLETE R2000LP CAP & BODY ASSY | LP MOTOR COLOR | FLOW IN GPM / LPH @ 50 PSI / 3.5 BAR |
|-------------------------|------------------------|------------------------|-----------------------------------|----------------------------------|----------------|----------------------------------|----------------|--------------------------------------|
| WF10 Blue 12113 | Blue *10 9306-078 | 5/64 | 12800-010 | 9928-1010 | Purple | 9929-1010 | Green | 1.25 / 286 |
| WF12 Purple 10452 | Orange *11 9306-086 | 11/128 | 12800-011 | 9928-1211 | Ivory | 9929-1211 | Green | 1.53 / 350 |
| | Purple *12 9306-094 | 3/32 | 12800-012 | 9928-1212 | Ivory | 9929-1212 | Green | 1.80 / 412 |
| WF14 Green 9877 | Yellow *13 9306-102 | 13/128 | 12800-013 | 9928-1413 | Ivory | 9929-1413 | Purple | 2.13 / 487 |
| | Green *14 9306-109 | 7/64 | 12800-014 | 9928-1414 | Ivory | 9929-1414 | Purple | 2.40 / 550 |
| WF16 Red 9931 | Tan *15 9306-117 | 15/128 | 12800-015 | 9928-1615 | Ivory | 9929-1615 | Purple | 2.82 / 647 |
| | Red *16 9306-125 | 1/8 | 12800-016 | 9928-1616 | Ivory | 9929-1616 | Purple | 3.23 / 739 |
| WF18 Yellow 9870 | Gold *18 9306-141 | 9/64 | 12800-018 | 9928-1818 | Ivory | 9929-1818 | Purple | 4.11 / 940 |
| WF20 Brown 9878 | Brown *20 9306-156 | 5/32 | 12800-020 | 9928-2020 | Ivory | 9929-2020 | Purple | 5.0 / 1144 |



| DESCRIPTION | Cap Assembly – Less Plate | Plates | Cap Assembly & Plate (Assembled) | WF Body (Female Acme Thread) | 2TN Nozzle (Nozzle options #10 to #20) | WF Body & 2TN Nozzle (Assembled) | *Total with 2TN Nozzle | Adapter (Male Acme x 3/8", 1/2" or 3/4" MNPT) | *Total with 2TN Nozzle & Threaded Adapter | PVC Adapter (Male Acme x 1/2", 3/4" or 25 mm Slip) |
|-------------|---------------------------|-----------|----------------------------------|------------------------------|--|----------------------------------|------------------------|---|---|--|
| BOX | 12x12x11" | 12x12x11" | 12x12x11" | 12x12x10" | 12x12x5" | 12x12x11" | 12x12x11" | 14x14x9" (or 13") | | 14x14x13" |
| QTY/BOX | 125 | 500 | 125 | 250 | 1200 | 250 | 100 | 1000 (100/bag) | | 500 |
| LBS/BOX | 8 | 3 | 9 | 14 | 4 | 14 | 14 | 17/20/26 | | 20/25/24 |



R2000/WF COLOR BAND FOR QUICK NOZZLE IDENTIFICATION

See Part Numbers on Page 44.
No factory assembly.

STAKE AND TUBE OPTIONS FOR ANY APPLICATION. SEE PAGE 39.

FT4; 3/4 PVC-10, FT5



ACCESSORIES



| DESCRIPTION | PC-R2000WF/LP | FLUSH TOOL | NEW STYLE ROAD GUARD | NEW STYLE MOTOR REMOVAL TOOL | CAP REMOVAL TOOL |
|-------------|---|--|---|---------------------------------------|---|
| PART NO. | 10242-xxxx (i.e. R2000WF WF12 #11 is 10242-1211) | 11296-xxxx (i.e. R2000LP WF12 #11 is 11296-1211) | 9210 | 12213-001 | 12215 |
| | | Used to allow cleaning and flushing of the sprinkler without shutting the system down. | Snap on new style R2000(WF) to convert to part-circle operation (irrigates 190°). See page 41 for Legacy Road Guards. | Removes the motor from the R2000(WF). | Easily removes the cap assembly on the R2000(WF). |

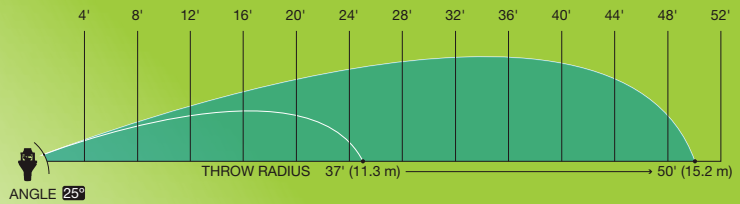


| DESCRIPTION | 2TN Nozzle Removal Tool | 1/2" Male Acme X PVC Socket Adapter | 1/2" Male Acme X MNPT Adapter | 1/2" Acme Cap | 1/2" Female Acme X 1/2" PVC Spigot | 1/2" Female x 1/2" Male Acme Pressure Gauge Tap Kit |
|-------------|---|---|---|---|---|---|
| PART NO. | 12260 | | | 10615 | 10352 | 10366-001 10366-002 10366-003 |
| | Easily removes the nozzle from R2000(WF). | 1/2" - 10060-001 3/4" - 10060-002 25 mm - 10060-003 | 3/8" - 9465 1/2" - 9316-002 3/4" - 9466 | Connects to Acme thread and acts as a shut-off cap. | Enables easy attachment to a PVC riser. | 0-60 PSI 0-100 PSI 0-160 PSI |

FULL COVERAGE IRRIGATION / ROTATOR® SPRINKLERS

DIRECT 3/4" IMPACT REPLACEMENT

While brass sprinklers are prone to damage, clogging and theft, the R33 is easy to clean, easy to repair and costs less to replace. Without a drive arm, the sprinkler creates no riser vibration. It also has a long wear life because no seals or bearings are exposed to water pressure. The R33 is also available in a low pressure model, the R33LP.



R33 AND R33LP



| R33 / R33LP Sprinkler Assembly & Adapter | |
|--|-----------|
| DESCRIPTION | |
| BOX | 12x12x11" |
| QTY/BOX | 50 |
| LBS/BOX | 11 |

Adapter #11344



R33LP now has easy to identify green cap.

The R33 and R33LP motors, plates, and diffusers have been updated to improve reliability and uniformity. The nozzles have not been changed, therefore, flow rates remain unchanged. Because flow rates are the same and there are only slight changes to radius, there will not be a decrease in uniformity if old versions of the R33 and R33LP are mixed with new versions and they operate side by side in the field. However, the components (motor, diffuser, plate) of cap assemblies from old versions and new versions should not be mixed. **WE RECOMMEND THAT THE R33 & R33LP BE STOCKED AND PURCHASED AS A FULL ASSEMBLY. PLEASE ORDER ALL OTHER PARTS FOR THE PURPOSE OF REPAIRS ONLY.**

| PLATE | NOZZLE | ASSEMBLED R33 CAP, BODY & ADAPTER | ASSEMBLED R33LP CAP, BODY & ADAPTER | ASSEMBLED R33 CAP, BODY (NO ADAPTER) | ASSEMBLED R33LP CAP, BODY (NO ADAPTER) |
|-------------------------|------------------------------|--|--|---|---|
| #18 Gold 12965-018 | Gold (9/64") 11078-018 | 13430-1018 (Black Diffuser, Gray Motor) | 13430-1118 (Purple Diffuser, Green Motor) | 13423-018 (Black Diffuser, Gray Motor) | 13423-118 (Purple Diffuser, Green Motor) |
| #20 Brown 12965-020 | Brown (5/32") 11078-020 | 13430-1020 (Black Diffuser, Gray Motor) | 13430-1120 (Purple Diffuser, Green Motor) | 13423-020 (Black Diffuser, Gray Motor) | 13423-120 (Purple Diffuser, Green Motor) |
| #22 Gray 12965-022 | Gray (11/64") 11078-022 | 13430-1022 (Black Diffuser, Ivory Motor) | 13430-1122 (Green Diffuser, Purple Motor) | 13423-022 (Black Diffuser, Ivory Motor) | 13423-122 (Green Diffuser, Purple Motor) |
| #24 Green 12965-024 | Green (3/16") 11078-024 | 13430-1024 (Black Diffuser, Ivory Motor) | 13430-1124 (Green Diffuser, Purple Motor) | 13423-024 (Black Diffuser, Ivory Motor) | 13423-124 (Green Diffuser, Purple Motor) |
| #26 Maroon 12965-026 | Maroon (13/64") 11078-026 | 13430-1026 (Gray Diffuser, Ivory Motor) | 13430-1126 (Green Diffuser, Purple Motor) | 13423-026 (Gray Diffuser, Ivory Motor) | 13423-126 (Green Diffuser, Purple Motor) |
| #28 Blue 12965-028 | Blue (7/32") 11078-028 | 13430-1028 (Gray Diffuser, Ivory Motor) | 13430-1128 (Green Diffuser, Purple Motor) | 13423-028 (Gray Diffuser, Ivory Motor) | 13423-128 (Green Diffuser, Purple Motor) |
| #20 Brown 12965-020 | 4 GPM Flow Control | 13430-1040 (Black Diffuser, Gray Motor) | 13430-1140 (Purple Diffuser, Green Motor) | 13423-040 (Black Diffuser, Gray Motor) | 13423-140 (Purple Diffuser, Green Motor) |
| #22 Gray 12965-022 | 5 GPM Flow Control | 13430-1050 (Gray Diffuser, Ivory Motor) | 13430-1150 (Purple Diffuser, Purple Motor) | 13423-050 (Gray Diffuser, Ivory Motor) | 13423-150 (Purple Diffuser, Purple Motor) |



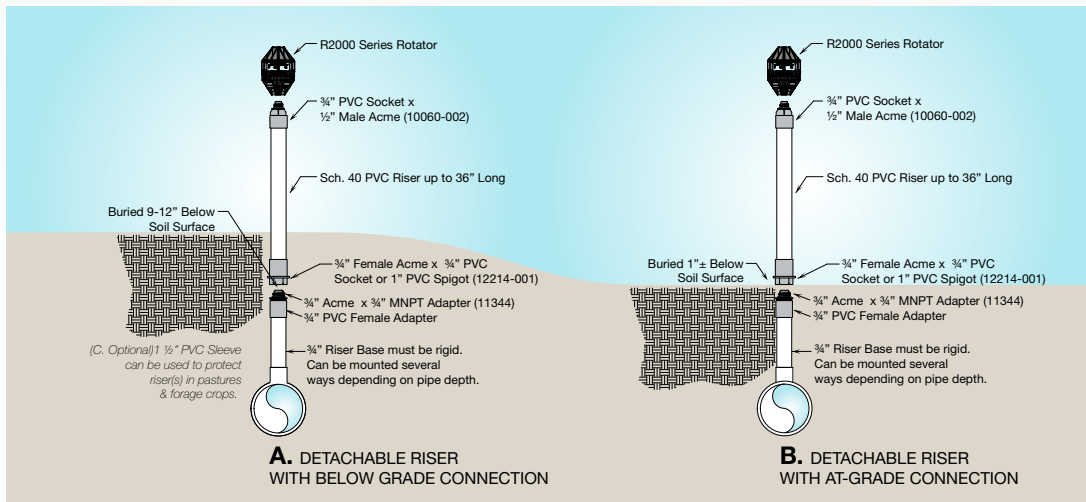
| | | | | | | |
|-------------|-------------------------|----------------------|-----------------------------|--------------------------|--|-------|
| | | | | | | |
| DESCRIPTION | R33/R33LP FLUSH TOOL | R33/R33LP ROAD GUARD | R33/R33LP 3/4" MNPT ADAPTER | 33TN NOZZLE REMOVAL TOOL | DIFFUSER/MOTOR INSTALLATION/REMOVAL TOOL | |
| PART NO. | 11161-001 | 11161-002 | 11363 | 11344 | 11473 | 11478 |
| | (Short) for wheel lines | (Long) | (50/bag) | | | |

QUICK-CONNECT

FITTINGS FOR DETACHABLE RISERS

WHY DETACHABLE RISERS? Solid set irrigation with Rotators is an excellent way to irrigate small and irregular-shaped fields. However, the process of moving pipe in and out of the field several times a season is costly and problematic. Inexpensive yet rigid detachable risers can be quickly and easily moved out of the way of farming operations, then easily reinstalled when it is time to irrigate. Now with two sizes of Nelson ACME Adapters, growers can choose from a wide range of Rotator® Sprinkler flow ranges for their specific needs. ACME threads allow users to rethread risers while the system is pressurized, and not cross-thread the risers. The 1/2" ACME thread is used in 10 Series and 2000 Series Rotator sprinklers. The new 3/4" ACME threaded fittings are based on the ACME thread used in the R33. With these new 3/4" ACME thread fittings, Detachable Risers can have higher flow rates and be taller than ever before.

- A. SHALLOW CULTIVATED CROPS REQUIRE A BURIED DETACHABLE RISER.**
- B. DETACHABLE RISERS FOR CRANBERRY AND ALFALFA PRODUCTION.**
- C. SLEEVE-PROTECTED DETACHABLE RISERS IN PASTURES & FORAGE CROPS.**



Fittings With
3/4" Female Acme Thread
(Connects to R33
Adapter 11344)



12214-001
3/4" Female Acme x 3/4" PVC Socket
or 1" PVC Spigot



12214-003
Cap, Female Acme x 3/4" PVC Socket
or 1" PVC Spigot

IRRIGATION DESIGN SOFTWARE

Overlap Pro

Overlap is an online software program (www.overlappro.com) capable of analyzing the theoretical uniformity of permanent or solid set sprinkler spacing. Select a specific sprinkler model configuration and spacing criteria, and the software will calculate the following:

- Precipitation Rate
- Christiansen's Coefficient of Uniformity (CU)
- Distribution Uniformity (DU)
- Scheduling Coefficient (SC)

Overlap also allows you to graphically depict and chart theoretical performance for comparative purposes. Please contact us for more information.

Irricad Pro

Find out more — go to www.irricad.com. IRRICAD is a standalone, graphically based, computer-aided design package developed specifically for designing pressurized irrigation or water supply systems. IRRICAD is far more than a drawing package because it combines the advantages of CAD drawing with powerful hydraulic pipe sizing and network analysis techniques, and it also provides automatic selection of pipe fittings, thereby generating a complete bill of materials. Systems can be designed to cover a full range of functions including:

- Sprinkler/Micro sprinkler
- Drip/Drip Tape
- Nursery
- Dust Suppression
- Mainline Networks
- Stock Water Systems
- Residential/Commercial Turf
- Sports Fields/Golf Courses
- Systems Pressurized by Gravity



Distributed by Nelson Irrigation Corporation, U.S.A.

UPRIGHT & INVERTED NURSERY SOLUTIONS

In addition to the R10TG, the S10 and D10, the following products are also commonly used for nursery production: S7 SPINNER IN GREENHOUSES (page 29), R2000 ROTATOR® IN CONTAINER YARDS (page 40), R2000WF ROTATOR® FOR FIELD GROWN PLANTS (page 44), R2000LP ROTATOR® IN CONTAINER YARDS (page 44), R33 ROTATOR® FOR FIELD GROWN PLANTS (page 46), and R33LP ROTATOR® IN CONTAINER YARDS (page 46).



R10TG ROTATOR®

9914-8XXX

THREAD/PLATE
 1/2" with Gray plate 0° = 000
 1/2" with Green plate 7° = 001
 Acme with Gray plate 0° = 003
 Acme with Green plate 7° = 004

12927-XXXX (Assembled)

THREAD
 1/2" = 1
 Acme = 2

NOZZLE PLATE
 Green 7° = 1
 Gray 0° = 3

EXAMPLE:
 R10TG Rotator with
 Acme Thread (2),
 Green Plate (1) and
 Red #16 Nozzle (16)
 = #12927-2116

48

| DESCRIPTION | 9914-8xxx R10TG Plate & Body Assembly (Specify plate & base) | 9306-xxx 2TN Nozzle (Specify size: 10, 11, 12, 13, 14, 15, 16, 17, 18 or 20) | 12927-xxxx R10TG Assembly w/ Body, Plate & 2TN Nozzle (Specify 1/2" or Acme Base - Acme requires adapter) | Male Acme Adapter x 3/8" = 9465 x 1/2" = 9316-002 x 3/4" = 9466 | 10060-xxx PVC Adapter (Male Acme x 1/2", 3/4" or 25 mm Slip) | Complete R10TG with PVC Adapter | Complete R10TG with Threaded Adapter |
|-------------|---|---|---|--|---|--|---|
| BOX | 12x12x9" | 12x12x5" | 12x12x9" | 14x14x9" (or 13") | 14x14x13" | | |
| QTY/BOX | 300 | 1200 | 300/600 | 1000 (100/bag) | 500 | | |
| LBS/BOX | 10 | 4 | 11/23 | 17/20/26 | 20/25/24 | | |

| 2TN NOZZLES FOR S10, D10 & R10TG | PART NO. | FLOW IN GPM @ 35 PSI | FLOW IN LPH @ 2.5 BAR |
|-------------------------------------|-----------|-------------------------|--------------------------|
| #10 Blue | *9306-078 | 1.05 | 242 |
| #11 Orange | *9306-086 | 1.27 | 294 |
| #12 Purple | *9306-094 | 1.50 | 347 |
| #13 Yellow | *9306-102 | 1.78 | 411 |
| #14 Green | *9306-109 | 2.00 | 463 |
| #15 Tan | *9306-117 | 2.35 | 544 |
| #16 Red | *9306-125 | 2.70 | 624 |
| #17 Turquoise | *9306-133 | 3.08 | 711 |
| #18 Gold | *9306-141 | 3.44 | 795 |
| #20 Brown | *9306-156 | 4.18 | 966 |

| | | | | |
|---|---|---|---|---|
| | | | | |
| 1/2" Male Acme X PVC Socket Adapter | 1/2" Male Acme X MNPT Adapter | 1/2" Acme Cap 10615 | 1/2" Female Acme X 1/2" PVC Spigot 10352 | 1/2" Female x 1/2" Male Acme Pressure Gauge Tap Kit |
| 1/2" - 10060-001 3/4" - 10060-002 25 mm - 10060-003 | 3/8" - 9465 1/2" - 9316-002 3/4" - 9466 | Connects to Acme thread and acts as a shut-off cap. | Enables easy attachment to a PVC riser. | 10366-001 0-60 PSI 10366-002 0-100 PSI 10366-003 0-160 PSI |

PROBLEM

"I like the water pattern spinners create, and I'm looking for an economical single-row solution for my greenhouse.



"With it's high flow capacity, high uniformity and large radius, you can space S10s relatively far apart. Less product, less cost, better results."



10078-XXXX

| PLATE | THREAD |
|---------------|------------|
| Green 7° = 1 | Acme = 000 |
| Black 24° = 2 | 1/2" = 001 |
| Gray 0° = 3 | |

12884-XXXX (Assembled)

| THREAD | PLATE | EXAMPLE: |
|----------|---------------|----------------------|
| 1/2" = 1 | Green 7° = 1 | S10 Spinner with |
| Acme = 2 | Black 24° = 2 | Acme Thread (2), |
| | Gray 0° = 3 | Green Plate (1) and |
| | | Turquoise #17 Nozzle |
| | | (17) = #12884-2117 |

| DESCRIPTION | 10078-xxx S10 Spinner Plate & Body Assembly (Specify plate & base) | 9306-xxx 2TN Nozzle (Specify size: 10, 11, 12, 13, 14, 15, 16, 17, 18 or 20) | 12884-xxx S10 Assembly w/ Body, Plate & 2TN Nozzle (Specify 1/2" or Acme Base - Acme requires adapter) | Male Acme Adapter x 3/8" = 9465 x 1/2" = 9316-002 x 3/4" = 9466 | 10060-xxx PVC Adapter (Male Acme x 1/2", 3/4" or 25 mm Slip) | Complete S10 with PVC Adapter | Complete S10 with Threaded Adapter |
|-------------|--|--|--|---|--|-------------------------------|------------------------------------|
| BOX | 12x12x9" | 12x12x5" | 12x12x9" | 14x14x9" (or 13") | 14x14x13" | | |
| QTY/BOX | 300 | 1200 | 300 | 1000 (100/bag) | 500 | | |
| LBS/BOX | 9 | 4 | 10 | 17/20/26 | 20/25/24 | | |



10135-XXX

| THREAD |
|------------|
| Acme = 001 |
| 1/2" = 002 |

12928-XXXX (Assembled)

| THREAD | NOZZLE | EXAMPLE: |
|-----------|--------|------------------|
| 1/2" = 10 | | D10 Spray with |
| Acme = 20 | | Acme Thread (20) |
| | | and Turquoise |
| | | #17 Nozzle (17) |
| | | = #12928-2017 |

| DESCRIPTION | 10135-xxx D10 Spray Plate & Body Assembly (Specify plate & base) | 9306-xxx 2TN Nozzle (Specify size: 10, 11, 12, 13, 14, 15, 16, 17, 18 or 20) | 12928-xxxx D10 Assembly w/ Body, Plate & 2TN Nozzle (Specify 1/2" or Acme Base - Acme requires adapter) | 1/2" Male Acme Adapter x 3/8" = 9465 x 1/2" = 9316-002 x 3/4" = 9466 | 10060-xxx PVC Adapter (Male Acme x 1/2", 3/4" or 25 mm Slip) | Complete D10 with PVC Adapter | Complete D10 with Threaded Adapter |
|-------------|--|--|---|--|--|-------------------------------|------------------------------------|
| BOX | 12x12x9" | 12x12x5" | 12x12x9" | 14x14x9" (or 13") | 14x14x13" | | |
| QTY/BOX | 300 | 1200 | 300 | 1000 (100/bag) | 500 | | |
| LBS/BOX | 8 | 4 | 9 | 17/20/26 | 20/25/24 | | |

PRESSURE REGULATION / 1/2" & 3/4" REGULATORS

1/2" MINI PRESSURE REGULATORS/ DRAIN CHECKS

Use the 1/2" series regulators to ensure high irrigation uniformity. The MRDC also includes the drain check benefit for retaining the water in the irrigation pipeline that would otherwise drain out through the lower sprinklers and create wet spots at the lowest area. The MDC model provides drain check as well but is used only when regulation is not required. Both the MRDC and MDC restricts operation until adequate pressure is available to irrigate properly.

1/2" FNPT INLET X
1/2" MNPT OUTLET



MRDC 11150-0XX
MR 11146-0XX
MDC 11154-020 or -035

1/2" FNPT INLET X
1/2" ACME OUTLET



MRDC 10406-0XX
MR 10020-0XX
MDC 11140-020 or -035




1/2" FEMALE ACME INLET X
1/2" MALE ACME OUTLET



MRDC 10407-0XX
MR 10099-0XX
MDC 11139-020 or -035



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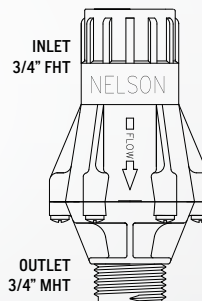
| DESCRIPTION |  Mini Reg. Drain Check* (Brown) |  Mini Regulator* (Gray) |  Mini Drain Check** (Green) |
|-------------|---|---|---|
| BOX | 12x12x9" | 12x12x9" | 12x12x9" |
| QTY/BOX | 150 | 150 | 150 |
| LBS/BOX | 18 | 18 | 18 |

The Mini Regulator Drain Check (MRDC) is available in 20, 30, 35, 40, 45, 50, 55 or 60 PSI (1.4, 2.1, 2.4, 2.8, 3.1, 3.4, 3.8 or 4.1 BAR) nominal pressures in the connection types shown above. The Mini Regulator comes with the same connections and pressure options except 55 and 60 PSI. The Mini Drain Check (MDC) is a check valve only that opens at or near the available 20 or 35 PSI (1.4-2.4 BAR) nominal pressures in the connection types shown above.

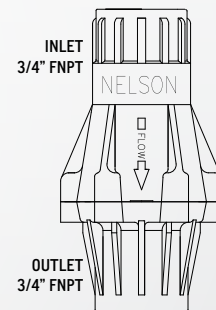
3/4" REGULATORS

| DESCRIPTION | 3/4" HT (Hose Thread) Uni-Flo | 3/4" FNPT x MHT Uni-Flo |
|-------------|-------------------------------|-------------------------|
| BOX | 12x12x13" | |
| QTY/BOX | 100 | |
| LBS/BOX | 30 | |

HOSE THREAD CONNECTION
(Connections for Micro/Drip)



PIPE THREAD CONNECTION



See pg 22 for NPT connections.

| | 6 PSI (0.4 bar) | 10 PSI (0.7 bar) | 15 PSI (1.0 bar) | 20 PSI (1.4 bar) | 25 PSI (1.7 bar) | 30 PSI (2.1 bar) | 35 PSI (2.4 bar) | 40 PSI (2.8 bar) | 50 PSI (3.4 bar) |
|------------------------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 3/4" FHT X 3/4" MHT UNI-FLO | 9561-001 | 9561-002 | 9561-003 | 9561-004 | 9561-005 | 9561-006 | 9561-009 | 9561-007 | 9561-008 |
| 3/4" FNPT X 3/4" MHT UNI-FLO | 9581-001 | 9581-002 | 9581-003 | 9581-004 | 9581-005 | 9581-006 | 9581-009 | 9581-007 | 9581-008 |



TURF & LANDSCAPE PRODUCTS

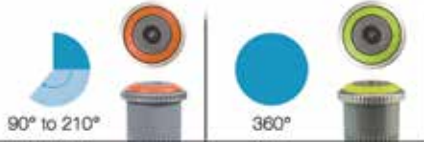
PR SERIES REGULATORS

(NOTE: Specially designed for turf & landscape applications – NOT AG. Regulators must be placed AFTER the control valve.)



| | 10 PSI (0.7 bar) | 20 PSI (1.4 bar) | 25 PSI (1.7 bar) | 30 PSI (2.1 bar) | 35 PSI (2.4 bar) | 40 PSI (2.8 bar) | 50 PSI (3.4 bar) |
|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| PR 3/4" FNPT X 3/4" FNPT | 10895-010 | 10895-020 | 10895-025 | 10895-030 | N/A | 10895-040 | 10895-050 |
| PR 1" FNPT X 1" FNPT | N/A | 11257-020 | 11257-025 | 11257-030 | 11257-035 | 11257-040 | 11257-050 |
| PR 1" FBSPT X 1" FBSPT | N/A | 11420-020 | 11420-025 | 11420-030 | 11420-035 | 11420-040 | 11420-050 |

MP ROTATOR® SPRINKLERS



Call factory for pricing.
Order MP Rotators in quantities of 10.

MP800SR 6-12' Radius

MP800SR (female thread) = 12322-1210, 12322-1360



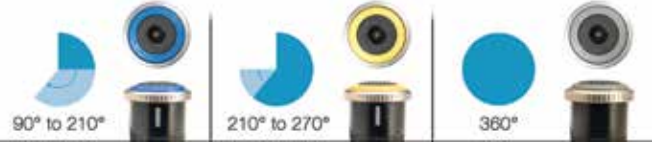
MP1000 8-15' Radius, Stream Height @ 30 PSI = 16"

MP1000 (female thread) = 10759-1210, 10759-1270, 10759-1360
MP1000T (male thread) = 10760-1210, 10760-1270, 10760-1360



MP2000 13-21' Radius, Stream Height @ 30 PSI = 40"

MP2000 (female thread) = 10489-1210, 10489-1270, 10489-1360
MP2000T (male thread) = 10563-1210, 10563-1270, 10563-1360



MP3000 22-30' Radius, Stream Height @ 40 PSI = 79"

MP3000 (female thread) = 10661-1210, 10661-1270, 10661-1360
MP3000T (male thread) = 10662-1210, 10662-1270, 10662-1360



MP3500 31-35' Radius,
MP3500 (female thread) = 11247-1210

MP Corner 8-15' Radius, Stream Height @ 30 PSI = 10"
MP Corner (female thread) = 10962-1105
MP Corner T (male thread) = 10979-1105



MP STRIPS 5X15' Pattern

MP Left Strip 11009-002, MP Side Strip 11009-001, MP Right Strip 11009-003
MP Left Strip T 11010-002, MP Side Strip T 11010-001, MP Right Strip T 11010-003

| DESCRIPTION | PART NUMBER | |
|--|-------------|--|
| MP ROTATOR® REPLACEMENT SCREENS | | |
| MP800SR 90-210 | 12331 | |
| MP800SR 360; MP1000/2000/Corner/Strips (white) | 10515-001 | |
| MP1000T/2000T/Corner T/Strips T (light blue) | 10580-001 | |
| MP3000 (light green) | 10655 | |
| MP3000T (tan) | 10580-002 | |
| MP ROTATOR® ADJUSTMENT TOOLS, ETC. | | |
| Arc/Radius Adjustment Tool | 10562 | |
| MP Matchstick Tool Kit (fits 1" PVC Pipe) | 11081 | |
| Pressure Gauge Adapter | 10600 | |
| MP RISER (See diagram on the right) | | |
| MP Riser (36") - ORDER IN QUANTITIES OF 10 | 10959 | |
| MP RISER COMPONENTS | | |
| MP Rotator Acme Adapter | 10594 | |
| Stake Adapter, Acme Threaded | 9677 | |
| Tube, 4mm x 100' (100 m) Coil | 9099-002 | |
| LTO, 10 mm Tube x 7 mm Barb | 9774 | |
| Fiberglass Stake, .3125" (7.9mm) x 36" | 10970 | |
| MP RISER ACCESSORIES | | |
| Adapter, 1/2" PVC Spigot x 10mm Tube Compression | 10623 | |
| Acme Shut-Off Cap | 10615 | |
| Punch Tool, Blue | 9810 | |
| Stake Installation Tool – 5/16" (8mm) | 10288 | |

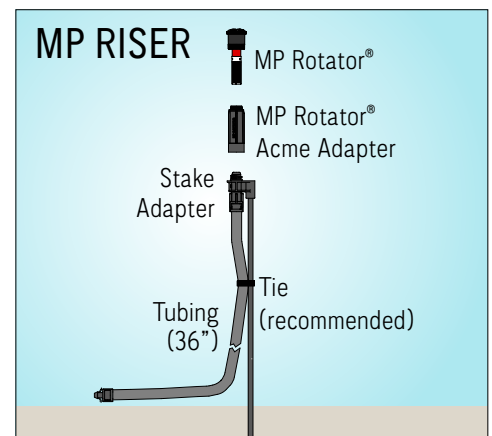
MINI REGULATOR DRAIN CHECK

See page 50. Requires 10594 MP Rotator® Acme Adapter. Use 30, 40 or 50 PSI
10406-xxx (1/2" FNPT x Acme or
10407-xxx (Acme x Acme).



MINI REGULATOR

See page 50. Requires 10594 MP Rotator® Acme Adapter. Use 30, 40 or 50 PSI
10020-xxx (1/2" FNPT x Acme or
10099-xxx (Acme x Acme).



IT'S NOT ALL GREEN ACRES ...

- Feedlot Dust Suppression
- Log Wetting
- Quarry & Mining Dust Suppression



52



**R75M DEBRIS SWEEPER
FOR MINING & DAIRY APPLICATIONS**

| PART NUMBER | DESCRIPTION |
|-------------|--------------------------------------|
| 12699-001 | R75M, 1 1/4" MNPT, #52 11/32" Nozzle |


AUTOMATED SOLID SET BIG GUN® SYSTEMS

PROBLEM

"We're just retired and bought our dream ranch. We need to irrigate about 10 acres in close proximity to our house. We want to minimize labor,, so we can relax and enjoy the view."

SOLUTION

"For unmatched ease and reliability, put in a Nelson Big Gun® Sprinkler system with Nelson Control Valves and TWIG® Wireless Controls."



With the heavy-duty reliability of Nelson's 800 Series Control Valves, the introduction of the 1000 Series Valves, and TWIG® Wireless Control System, the traditional Solid Set Big Gun® system can be transformed into something quite revolutionary. Automate water application in feedlots, dairies, pastures, berry plantings, sugarcane fields, and irregular-shaped areas such as pivot corners.

LARGE RADIUS IRRIGATION & ENVIRONMENTAL CONTROLS / BIG GUN® SPRINKLERS

ORIGINAL BIGGUN®

THE LEADER IN QUALITY, PERFORMANCE & SUPPORT

THE PREFERRED
CHOICE FOR TOUGH
APPLICATIONS

54

THE ONLY GUN FOR
HOUR AFTER HOUR, YEAR
AFTER YEAR OPERATION.

TO ORDER BIG GUNS, SPECIFY THE FOLLOWING:

Model No., Trajectory, Connection Size & Type, Nozzle Size & Type, Optional Coatings (Anodized or Anodized and Powder Coated). Note: Extended lead time may be necessary for large quantities of anodized or anodized and powder coated products. Call Factory for Stainless Steel options.

SPECIFICATION EXAMPLE: SR100 24°, 2" FNPT, 100T-0.8"

DURABLE & RELIABLE
WITH ENGINEERED
SIMPLICITY

 **NELSON**

SECONDARY
NOZZLE



Optional for F75, SR75,
F100, F150 & F200

SECONDARY NOZZLE
KIT



SR100 & SR150 (optional),
SR200 (standard)

SELECT THE BEST!

SPEC SPECIAL COATINGS FOR TOUGH APPLICATIONS

MULTIPLE CONNECTION TYPES AVAILABLE

CHOOSE FROM WIDE SELECTION OF TRAJECTORIES

| | 75 SERIES | | 100 SERIES | | | 150 SERIES | | | 200 SERIES | |
|---|--|--------------------|---|-------------------|--------------------|---|--------------------|--------------------|--|------------------------------|
| FLOW | 25-160 GPM (6-36 M ³ /H) | | 40-300 GPM (9-70 M ³ /H) | | | 90-630 GPM (20-143 M ³ /H) | | | 230-1200 GPM (52-272 M ³ /H) | |
| PRESSURE | 25-80 PSI (1.75-5.5 BAR) | | 40-110 PSI (2.75-7.5 BAR) | | | 50-120 PSI (3.5-8.25 BAR) | | | 50-130 PSI (3.5-9 BAR) | |
| MODEL & TRAJECTORY | Full Circle F75 | Part Circle SR75 | Full Circle F100 | Part Circle SR100 | Part Circle SRA100 | Full Circle F150 | Part Circle SR150 | Part Circle SRA150 | Full Circle F200 | Part Circle SR200 |
| | 21°, 24° | 18°, 21°, 24°, 43° | 18°, 21°, 24°, 43° | | 15-45° Adjustable | 18°, 21°, 24° | 21°, 24°, 27°, 43° | 15-45° Adjustable | 21°, 24°, 27° | 21°, 24°, 27°, 33°, 36°, 39° |
| NOZZLE OPTIONS | TAPER | - | 100T (10 sizes) | | | 150T (8 sizes) | | | 200T (9 sizes) | |
| | TAPER RING | 75TR (9 sizes) | 100TR' (11 sizes - Aluminum or Plastic) | | | 150TR (17 sizes - Aluminum or Plastic) | | | - | |
| | RING | - | 100R' (8 sizes) | | | 150R (7 sizes) | | | 200R (7 sizes) | |
| THREADED CONNECTION | 1.5" FNPT / FBSP 2" FNPT / FBSP | | 2" FNPT / FBSP 2.5" FNPT ¹ | | | Adapter Required ² | | | Adapter Required ³ | |
| FLANGE CONNECTION | 2" ANSI/DIN / Nelson / Euro | | 2" ANSI/DIN ¹ / Nelson ¹ / Euro ¹ | | | 3" ANSI/DIN / Nelson / Euro | | | 4" Nelson / Euro. ANSI Adapter ⁴ | 4" ANSI/DIN / Nelson / Euro |
| SPECIAL COATING/MATERIAL⁵ | - | | Anodized, Anodized & Powder Coated | | | Anodized, Anodized & Powder Coated, Stainless Steel | | | Anodized, Anodized & Powder Coated | |
| SPECIAL OPTIONS⁵ | - | | Effluent Bearing Assembly, Vaneless Range Tube, Brakeless | | | Effluent Bearing Assembly, Vaneless Range Tube | | | Effluent Bearing Assembly | |
| ACCESSORIES | Dust shield, 12° wedge kit | | LP drive vane, Dust shield, Counterbalance kit, 12° wedge kit | | | Counterbalance kit, 12° wedge kit | | | Counterbalance kit, 12° wedge kit, Manure/Large Nozzle kit | |

Notes:
 1. Not available on SRNV100.
 2. Use Nelson Flange x Threaded Adapter: 150FI, 3" or 3.5" FNPT/FBSP; or 150/200FI, 4" FNPT.
 3. Use Nelson Flange x Threaded Adapter: 150/200FI, 4" FNPT.
 4. For ANSI connection, use Nelson x 4" ANSI Flange kit (#12807).
 5. Contact factory for availability and pricing.

BIG GUN® SPRINKLERS / 75 & 100 SERIES SPRINKLERS

75 SERIES BIG GUN® SPRINKLERS

| MODEL NO. | F75 | SR75 | SR75 (43') | QC-SR75 | QC-F75 |
|-----------|---------------------------|---|--|--|---|
| | Full Circle HD (21", 24") | Part Circle HD – Slow Reverse (18", 21", 24") | Environmental Ctrl – Dust Suppression Big Gun® Sprinkler | Quick Coupling SR75 with Integral QC Key | Quick Coupling F75 with Integral QC Key |
| BOX | 32x9x12" | 32x9x15" | 32x9x15" | 32x9x19" | 32x9x16" |
| LBS/BOX | 18 | 22 | 22 | 32 | 30 |



75 & 100 SERIES NOZZLES

| MODEL / PART NO. | DESCRIPTION | LBS/BOX |
|----------------------|---|---------|
| 75TR / 10208-xxx | Individual 75TR Taper Ring Nozzle (Specify Size) | |
| 10207 | Nozzle Cap Only (Nozzle Cap is included on 75 Series Big Gun) | |
| 7/32" 3RN / 8898-219 | Secondary Nozzle for F75/SR75/F100 (Other sizes available) | |
| 100T / 9309-xxx | 100T Taper Bore Nozzle (Specify Size) | 1/2 |
| 100R / 6749 | 100R Ring Nozzle Set – Cap, Body & 7 Rings | 1 |
| 7872 | Ring Nozzle Cap Only (Use only with 100R) | 1/2 |
| 9956-001 | Ring or Taper Ring Nozzle Body Only (Use w/100R, 100TR) | 1 |
| 6847 | Set of 7 R100 Rings Only | 1/2 |
| 6738-xxx | Individual R100 Ring Only (Specify Size) | 1/2 |
| 100TR / 9257-xxx | 100TR Taper Ring Nozzle Set – Cap, Body, Taper Ring (Specify Size) | 1 |
| 6745 | Taper Ring Nozzle Cap Only (Use only with 100TR) | 1/2 |
| 9956-001 | Ring or Taper Ring Nozzle Body Only, (Use w/100R, 100TR) | 1 |
| 9237-xxx | Individual TR100 Taper Ring Only (Specify Size) | 1/2 |
| 9724 | Secondary Nozzle Kit for SR100/SR150 (5/16" & 7/32" 3RN Nozzles Included) | |
| 12700 | Plastic 100 Taper Ring Cap & Body Assembly | |
| 12469 | Plastic 100 Taper Ring Cap | |
| 12782 | Plastic 100 Taper Ring Body | |
| 12470-xxx | Plastic 100 Taper Ring Nozzles (12.7 mm-24 mm) | |



75 & 100 SERIES ACCESSORIES



| DESCRIPTION | Ring Nozzle (100) | Taper bore Nozzle (100) | Taper/Ring Nozzle (75 & 100) | Secondary Nozzle Kit (SR100/SR150) | QC100 Valve | QC100 Valve Key |
|-------------|---|---|---|---|---|--|
| MODEL NO. | 100R | 100T | TR75, 100TR | 9724 | See page 57. | See page 57. |
| | Designed to give the greatest stream diffusion. | Offers greatest flow capacity and least stream diffusion resulting in best air penetration and longest throw. | Useful when flow rate may need to change and a good throw distance is demanded. | Used to apply water in-close. Not desirable when used on travelers, but may be desirable in solid set. 5/16" & 7/32" 3RN nozzle included. | Quick-coupling system makes portable Big Gun® irrigation fast and easy. For 75 and 100 Series Big Guns. | QC Key used with QC Valve. Connects directly to 75 or 100 Series Big Guns. Threaded outlet also available. |

100 SERIES BIG GUN® SPRINKLERS

| MODEL NO. | F100* | F100 (43)* | SR100* | SR100 (43)* | SRA100* | QC-SR100 | QC-F100 |
|-----------|-----------------------------|---|--|---|--|---|--|
| | Full Circle (18', 21', 24') | Environmental Control – Dust Suppression Big Gun® Sprinkler | Part Circle – Slow Reverse (18', 21', 24') | Environmental Control – Dust Suppression Big Gun® Sprinkler | Part Circle – Slow Reverse, Adjustable Traj. | Quick Coupling SR100 with Integral QC Key | Quick Coupling F100 with Integral QC Key |
| BOX | 32x9x12" | 32x9x12" | 32x9x15" | 32x9x15" | 32x9x15" | 32x9x19" | 32x9x16" |
| LBS/BOX | 20 | 20 | 26 | 24 | 24 | 36 | 34 |

*Contact Factory for pricing and availability of anodized and anodized & powder coated options.

75 & 100 SERIES ACCESSORIES

| MODEL / PART NO. | DESCRIPTION | LBS/BOX | BOX |
|------------------|---|---------|----------|
| 10356 | 2" FNPT Flange | | |
| QC100 Valve | QC Valve (2" FNPT = 8654; 3" FNPT = 8799-000; 2" FBSP = 8934; 3" FBSP = 8799-001) | 11 | 12x12x9" |
| QC100 Key | QC Key (2" FNPT = 8655-001; 2" FBSP = 8655-002; 75/100 Direct = 8657-001) | 11 | 12x12x9" |
| 10415-001 | ANSI Conversion Kit (Convert 75 or 100 Series Threaded Big Gun to 2" ANSI Flange) | | |
| 9857 | SR100 LPV Kit (Low Pressure Drive Vane) | 2 | |
| 8386 | 75/100CBK Counterbalance Kit | 19 | |
| 6671 | 2" x 6" Long Stream Straightener Vane | | |
| 11095 | F75/F100 Wedge Kit – 12° | | |
| 11098 | SR75/SR100 Wedge Kit – 12° | | |



SPECIAL COATING OPTIONS

CONTACT FACTORY FOR PRICING AND AVAILABILITY OF ANODIZED AND ANODIZED & POWDER COATED OPTIONS.



| DESCRIPTION | Wedge Kit | | 2" FNPT Flange | SR100 Low Pressure Drive Vane | Counter-Balance Kit | Stream Straightener Vane | Heavy-Duty Bearing Assy |
|-------------------------|---------------------------|-------|---|--|---|--|--|
| PART NO. | 11095 | 11098 | 10356 | 9857 | 8386 | 6671 | See page 60. |
| F75/F100 Wedge Kit –12° | SR75/SR100 Wedge Kit –12° | | Lower Flange for 2" Valve & 75/100 Series Big Gun® combo. | Increase drive for nozzles smaller than 0.65" and pressure below 60 psi. | Helps balance the Big Gun on severely sloping terrain. Allows for even rotation and minimizes brake variations. | 6" long, fits inside 2" Sch. 40 pipe and helps reduce stream turbulence and increases throw radius of sprinkler. | Heavy-duty bearing standard on all Big Gun sprinklers. |

150 SERIES BIG GUN® SPRINKLERS

| MODEL NO. | F150* | SR150* | SR150 (43)* | SRA150 | F150SS** | SR150SS** |
|-----------|---|---|---|---|--|--|
| | Full Circle HD Flanged Conn. (21", 24") | Part Circle HD Slow Reverse Flanged Conn. (18", 21", 24") | Environmental Control — Dust Suppression Big Gun® Sprinkler | Part Circle — Slow Reverse, Flanged Connection, Adj. Traj. (15-45°) | Full Circle — Flanged Conn., Stainless Steel (includes nozzle) | Part Circle — Slow Reverse, Flanged Conn., Stainless Steel (includes nozzle) |
| BOX | 43x10x15" | 43x10x15" | 43x10x15" | 43x10x15" | 43x10x15" | 43x10x15" |
| LBS/BOX | 36 | 42 | 38 | 44 | | |

*Contact Factory for pricing and availability of anodized and anodized & powder coated options. **Limited availability. Please contact the Nelson factory before ordering.

150 SERIES NOZZLES & ACCESSORIES

| MODEL / PART NO. | DESCRIPTION | LBS/BOX |
|------------------|---|---------|
| 150T / 9317-xxx | Taper Bore Nozzle (Specify Size) | 1 |
| 150R / 6790 | Ring Nozzle Set — Cap, Body & 7 Rings | 2 |
| 9773 | Ring/Taper Ring Nozzle Body Only | 2 |
| 6286 | Ring/Taper Ring Nozzle Cap Only | 1 |
| 9418 | Ring/Taper Ring Body & Cap Assembly | |
| 6846 | Set of 7 Rings Only | 1/2 |
| 6287-xxx | Individual R150 Ring Only (Specify Size) | 1/2 |
| 150TR / 9258-xxx | Taper Ring Nozzle Set — Cap, Body, Taper Ring (Specify Size) | 2 |
| 9238-xxx | Individual TR150 Taper Ring Only (Specify Size) | 1/2 |
| 9773 | Ring/Taper Ring Nozzle Body Only | 2 |
| 6286 | Ring/Taper Ring Nozzle Cap Only | 1 |
| 9418 | Ring/Taper Ring Body & Cap Assembly | |
| 12701 | Plastic 150 Taper Ring Cap & Body Assembly | |
| 12467 | Plastic 150 Taper Ring Cap | |
| 12781 | Plastic 150 Taper Ring Body | |
| 12468-0xx | Plastic 150 Taper Ring Nozzles (21-34 mm) | |
| 7RN 5/16" / 7110 | Secondary Nozzle for F150 (Other sizes available) | |
| 9724 | Secondary Nozzle Kit for SR100/SR150 (5/16" & 7/32" 3RN Nozzles Included) | |
| QC150 Valve | QC Valve (3" FNPT = 11691-001; 3" FBSP = 11691-002) | |
| QC150 Key | QC Key (3" Nelson Flange = 11692) | |
| 150FI | Nelson Flange to Female Adapter, Cast Iron (3" or 3.5", Specify Thread)* | 6 |
| 150/200FI | Nelson Flange to Female Adapter, Cast Iron (4")* | 6 |
| 8399 | 150CBK, Counterbalance Kit | 30 |
| 6843 | Stream Straightener Vane — 9" Long, Fits Inside 3" Sch. 40 Pipe | |
| 11358 | F150 Wedge Kit — 12° | |
| 11359 | SR150 Wedge Kit — 12° | |
| 13233-001 | 3" FNPT Flange (13233-002 for FBSP) | |

*See 150/200 Flange Adapter to Female Adapter page 59. 3" FNPT (*8403-001); 3.5" FNPT (*6621-000); 3" BSP (*8820); 4" (*9127).



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ACCESSORIES

| DESCRIPTION | Ring Nozzle (150 & 200) | Taper Bore Nozzle (150 & 200) | Taper/Ring Nozzle (150) | Secondary Nozzle Kit (SR100/SR150) | QC 150 Valve | 3" FNPT Flange |
|-------------|---|---|--|--|---|--|
| | Designed to give the greatest stream diffusion. Comes in a set of rings which cover the whole flow range. | Offers greatest flow capacity and least stream diffusion resulting in best air penetration and longest throw. | Useful when flow rate may need to change and a good throw distance is demanded. Sold individually. | 9724 — Used to apply water in-close. Not desirable when used on travelers, but may be desirable in solid set. 5/16" & 7/32" 3RN nozzle included. | Quick connect makes portable Big Gun® irrigation fast and easy. QC150 Key fits Nelson Flanged Outlet. | Lower flange for 3" valve / 150 series Big Gun® combo. |

200 SERIES BIG GUN® SPRINKLERS

BIG GUN® SPRINKLERS / 150 & 200 SERIES SPRINKLERS

| MODEL NO. | F200* | SR200* |
|-----------|--|--|
| | Full Circle, Nelson Flange (21", 24", 27") | Part Circle — Slow Reverse, HD Bearing, Flanged Connection |
| BOX | 55x13x18" | 55x13x18" |
| LBS/BOX | 48 | 70 |

*Contact Factory for pricing and availability of anodized and anodized & powder coated options.

200 SERIES NOZZLES & ACCESSORIES

| MODEL / PART NO. | DESCRIPTION | LBS/BOX |
|------------------|---|---------|
| 200T, 9323-xxx | Taper Bore Nozzle (Specify Size) | 2 |
| 200R, 6789 | Ring Nozzle Set — Cap, Body & 7 Rings | 3 |
| 9972-001 | Ring Nozzle Body Only | 2 |
| 6026 | Ring Nozzle Cap Only | 1 |
| 6845 | Set of 7 Rings Only | 1/2 |
| 6027-xxx | Individual R200 Ring Only (Specify Size) | 1/2 |
| 7RN | Secondary Nozzle for F200/SR200 (Specify Size) | |
| 150/200FI | Nelson Flange to Female Adapter, Cast Iron (4", 9127) | 6 |
| 9346 | 200CBK, Counterbalance Kit — SR Models Only | |
| 9425 | Manure Kit/Large Nozzle Kit (for manure and/or nozzles 1.75+) | |
| 12807 | ANSI x Nelson Flange Adapter Kit (F200 only) | |
| 11138 | SR200 Wedge Kit — 12° | |



PROBLEM

"I need to change nozzles frequently on my traveling irrigator. The metal ones are really hard to remove."



"Try our plastic nozzles. They're super easy to change and very affordable."



| DESCRIPTION | 150/200 Nelson Flange to Female Adapter | Stream Straightener Vane | Wedge Kit | | | Manure Kit (SR200) | ANSI x Nelson Flange Adapter Kit (F200 only) | Counter Balance Kit | |
|-------------|--|--|--|----------------|----------------|--|---|---|----------------|
| PART NO. | See above. | 6843 | F150 11358 | SR150 11359 | SR200 11138 | 9425 | 12807 | 150CBK 8399 | 200CBK 9346 |
| | Nelson Flange to Female Adapter joined with bolts (bolts and gasket come with Big Gun) | 9" long, fits inside 3" Sch. 40 pipe and helps reduce stream turbulence and increases throw radius of sprinkler. | Increases the trajectory angle by 12°. | | | Increases rotation speed when larger nozzles used. Useful when pumping slurries with dense matter. | Kit includes 10565 ANSI x Nelson Flange Adapter, 9130 Gasket and (6) 12105 Screws | Helps balance the Big Gun on severely sloping terrain. Allows for even rotation and minimizes brake variations. | |



ORIGINAL BIGGUN®



BEARING ASSEMBLIES (See MNPPL for pricing.)

| BIG GUN® MODEL | PART NUMBER | CONNECTION |
|-------------------|-------------|-------------------------|
| F75/F100 | 7862 | 2" Nelson Flange |
| F75/F100 | 7863 | 2" FNPT |
| F100 | 7864 | 2.5" FNPT |
| F75/F100 | 7865 | 2" FBSP |
| F75 | 10380-007 | 1.5" FNPT |
| F75 | 10380-010 | 1.5" FBSP |
| F75/F100 | 9814-003 | 2" ANSI/DIN/Euro Flange |
| SR75/SRA100/SR100 | 7273 | 2" FNPT |
| SRA100/SR100 | 7277 | 2.5" FNPT |
| SR75/SRA100/SR100 | 7292 | 2" FBSP |
| SR75/SRA100/SR100 | 7753 | 2" Nelson Flange |
| SR75/SRA100/SR100 | 9814 | 2" ANSI/DIN/Euro Flange |
| SR75 | 10380-001 | 1.5" FNPT |
| SR75 | 10380-004 | 1.5" FBSP |
| SRNV100 | 7950 | 2" FNPT |
| SRNV100 | 7952 | 2" FBSP |
| F150/SRA150/SR150 | 8458 | 3" Nelson/Euro Flange |
| F150/SRA150/SR150 | 10323-001 | 3" ANSI/DIN Flange |
| SR200 | 9114-000 | Nelson Flange |
| SR200 | 9114-001 | Euro Flange |
| SR200 | 9114-003 | 4" ANSI Flange |

EFFLUENT
BEARING
ASSEMBLIES



CONTACT FACTORY
FOR SOLUTIONS
FOR EFFLUENT AND
CORROSIVE WATER
APPLICATIONS.

BIG GUN® SERVICE KITS

| PART NUMBER | DESCRIPTION |
|-------------|---|
| 11090 | SR75 Drive Arm Service Kit |
| 12011 | HD100 Bearing Assembly Service Kit |
| 12573 | Complete SR100 Service Kit - Includes: 9822, 12011, 12804, 12805 plus 8231 SR100 Drive Vane and Labels |
| 12804 | SR100/SR150 Trip Lever Service Kit |
| 12805 | SR100/SR150 Shift Lever Service Kit |
| 9822 | SR100/SR150 Drive Arm & Counterweight Service Kit |
| 12736 | Complete SR150 Service Kit - Includes: 9822, 12737, 12804, 12805, plus 8354 SR150 Drive Vane & Labels |
| 12737 | HD150 Bearing Assembly Service Kit |



12736



12737



12804

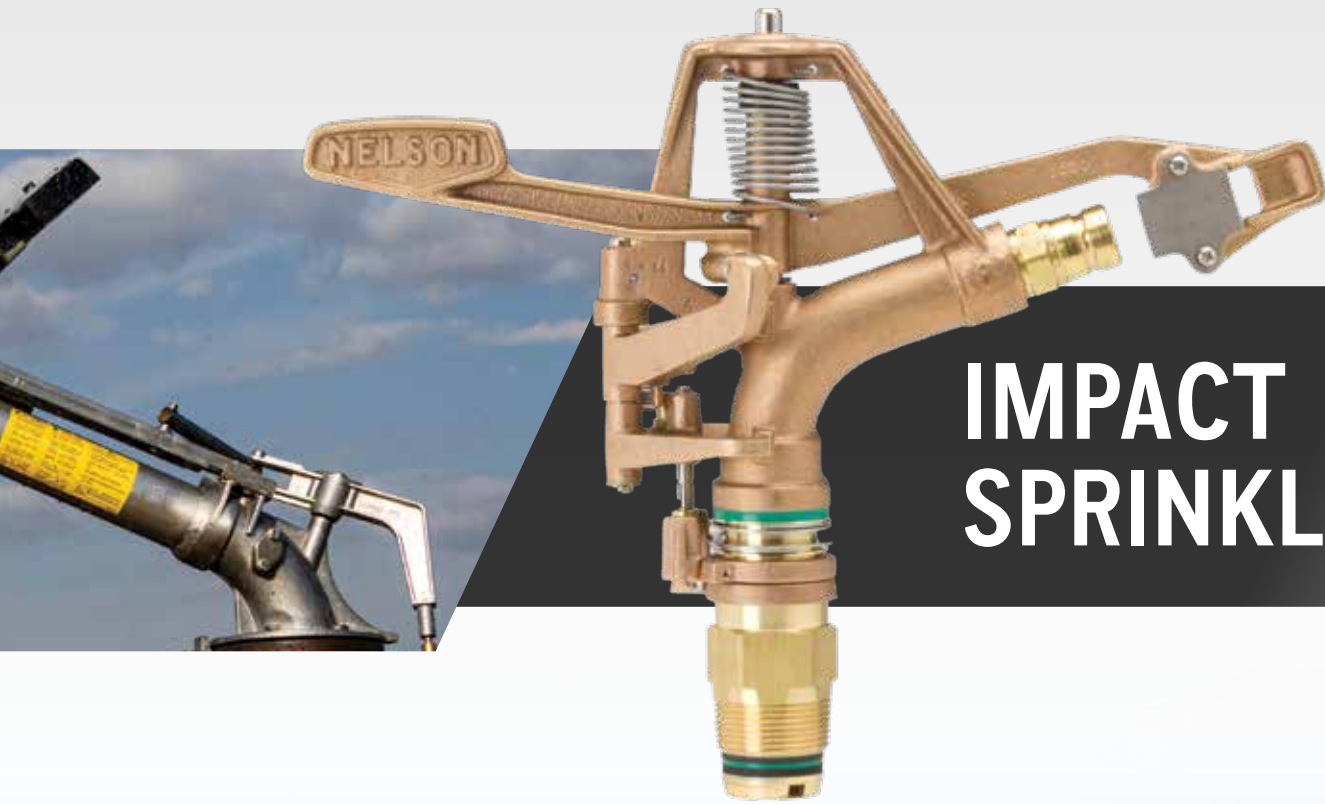


9822



12805





IMPACT SPRINKLERS

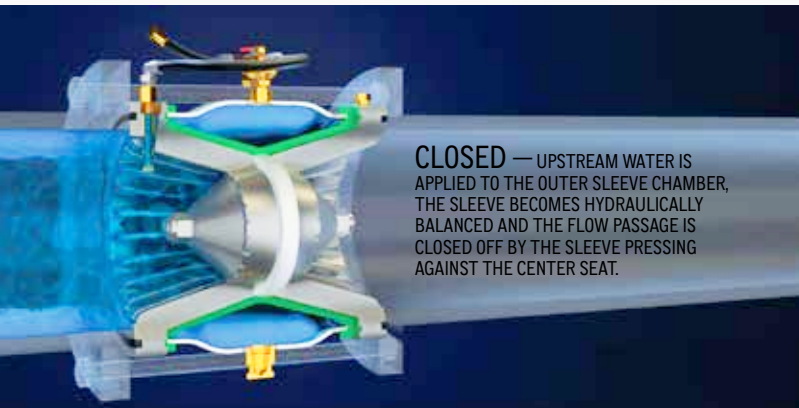
| MODEL NO. | P65M | P85AS | P85A | P85 |
|-----------|--|--|---|---|
| | 1" Male Part Circle with anti back-splash arm and diffuser pin (includes 7V) | 1 1/4" Male Part Circle with single nozzle 18° (includes 8V) | 1 1/4" Male Part Circle with double nozzle 18° (includes 8V and 1 plug) | 1 1/4" Male Part Circle with double nozzle 24° (includes 8V and 1 plug) |
| BOX | 12x12x11" | 12x12x5" | 12x12x5" | |
| LBS/BOX | 14 | 8 | 8 | |
| QTY/BOX | 4 | 1 | 1 | |

IMPACT SPRINKLER NOZZLES & ACCESSORIES

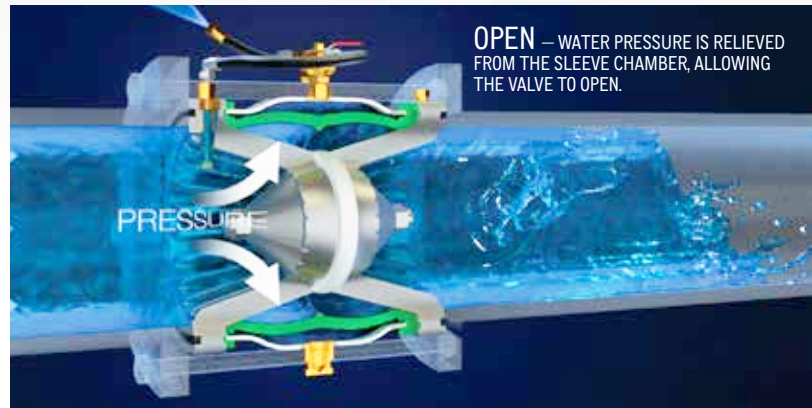
| MODEL / PART NO. | DESCRIPTION |
|------------------|--|
| 8DN / 8004 | Diffuser Assembly (not including Nozzle) |
| SH-125 / 9322 | 1.25" MNPT X 1.5" MNPT Swivel Hose |
| SH-125 / 9375 | 1.25" MBSP x 1.5" MBSP Swivel Hose |
| 7RN | Drive Nozzle F70A, F70, & P65M, Secondary for 150 & 200 Series Big Gun |
| 8DRN | Drive Nozzle F80A, F80, P85A, P85AS, and P85 |
| 7V Vane / 7240 | Stream Straightener Vane for F70 and F70A Series, P65 Series |
| 8V Vane / 7241 | Stream Straightener Vane for all 80 and 85 Series |
| 3FCN | Flow Control Nozzle 3/4" Sprinklers |
| 3RN Plug / 6089 | Brass Secondary Nozzle Plug for F70A, F80A, 100 Series Gun, P85 and F44AAB |

CONTROL YOU CAN COUNT ON SEASON AFTER SEASON

INTERNAL CAGE

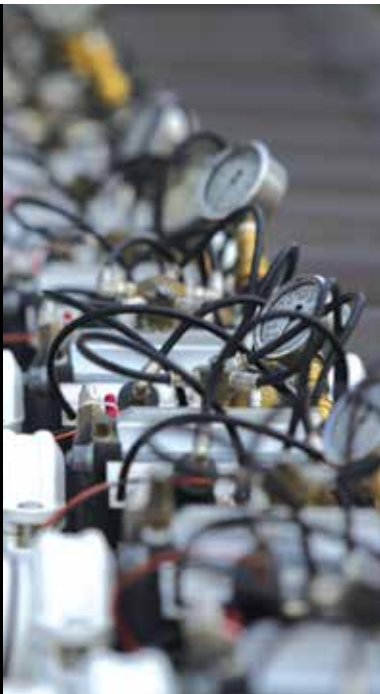


CLOSED — UPSTREAM WATER IS APPLIED TO THE OUTER SLEEVE CHAMBER, THE SLEEVE BECOMES HYDRAULICALLY BALANCED AND THE FLOW PASSAGE IS CLOSED OFF BY THE SLEEVE PRESSING AGAINST THE CENTER SEAT.



OPEN — WATER PRESSURE IS RELIEVED FROM THE SLEEVE CHAMBER, ALLOWING THE VALVE TO OPEN.

PRESSURE



MANUAL ON-OFF

ALL 800 SERIES VALVES (EXCEPT 800P) ARE EQUIPPED WITH A 3-WAY MANUAL ON-OFF SELECTOR VALVE.



ELECTRIC ON-OFF

ADD A SOLENOID FOR ELECTRIC ON-OFF CAPABILITY.

VALVE JACKET (GALVANIZED STEEL FOR 6" & 8" AND ANODIZED ALUMINUM FOR 2", 3", & 4")

PLASTIC CENTER BARRIER

STAINLESS STEEL CENTER STUD

CAGE

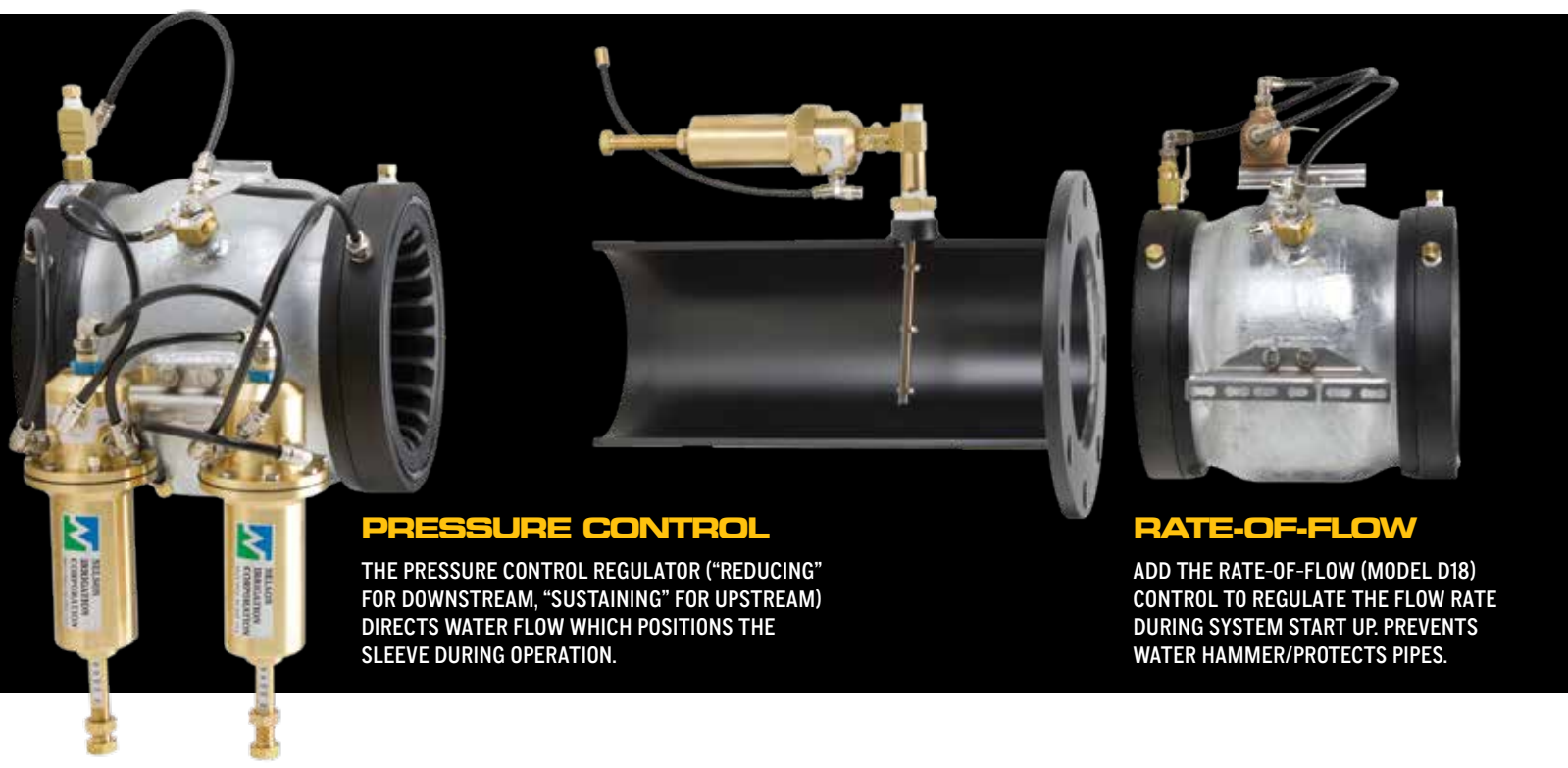
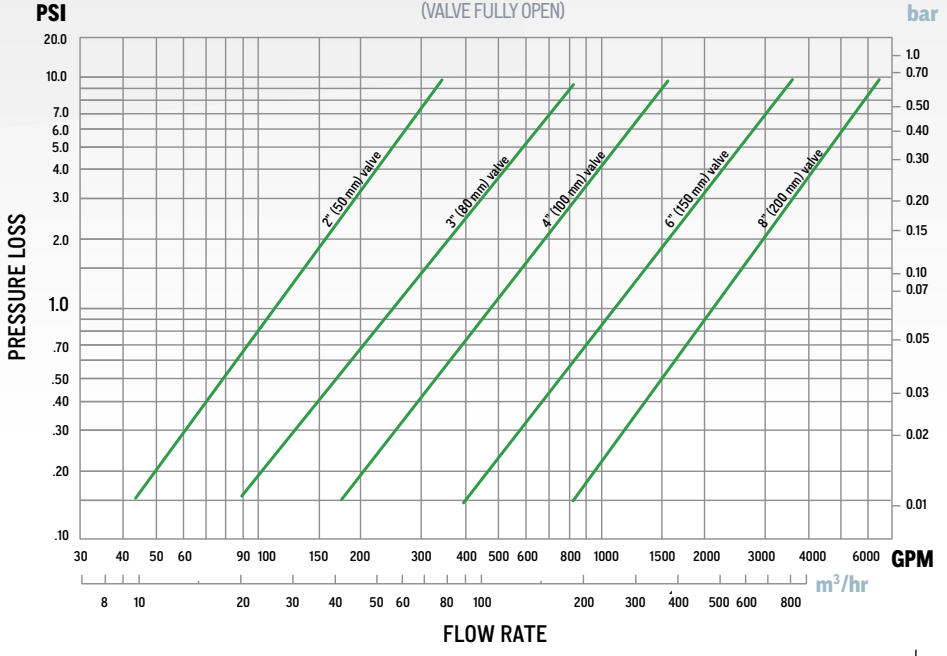
SLEEVE (SPECIAL NATURAL RUBBER)



AS A HYDRAULICALLY OPERATED SLEEVE-TYPE VALVE, THE 800 SERIES CONTROL VALVE IS DESIGNED FOR VERSATILITY. THE BASIC BODY CAN BE EQUIPPED WITH SEVERAL DIFFERENT OPTIONS FOR CONTROLLING PRESSURE AND FLOW. IT'S ALSO ENGINEERED FOR EXTREMELY HIGH EFFICIENCY, RESULTING IN LOW PRESSURE LOSS AND HIGH FLOW CAPACITY.

800 SERIES CONTROL VALVES PRESSURE LOSS DATA

(VALVE FULLY OPEN)



PRESSURE CONTROL

THE PRESSURE CONTROL REGULATOR ("REDUCING" FOR DOWNSTREAM, "SUSTAINING" FOR UPSTREAM) DIRECTS WATER FLOW WHICH POSITIONS THE SLEEVE DURING OPERATION.

RATE-OF-FLOW

ADD THE RATE-OF-FLOW (MODEL D18) CONTROL TO REGULATE THE FLOW RATE DURING SYSTEM START UP. PREVENTS WATER HAMMER/PROTECTS PIPES.

800 SERIES

TO ORDER: Select one option from each of the five sections to build the valve description code and price.

| SECTION | 1. SIZE/MATERIAL/CONNECTIONS | 2. PRESSURE | 3. PRESSURE CONTROL | 4. ON/OFF CONTROL | 5. FILTER |
|-------------|---------------------------------|--------------------|---------------------|----------------------|-----------------|
| CODE | A6 B10 | C3 | D01 | E01 | H3 |
| DESCRIPTION | Wafer w/stud kit for 6" flanges | Medium (18-80 psi) | None | Manual Selector Only | Internal Filter |

| 1. SIZE/MATERIAL/CONNECTIONS | | |
|------------------------------|-----------|-------------------------------------|
| CODE | MATERIAL | CONNECTIONS |
| 2" VALVES | | |
| A2 B3 | Cast Iron | 2" Threaded (NPT) |
| A2 B6 | | 2" Victaulic |
| A2 B9 | Aluminum | Wafer (no stud kit) |
| A2 B10 | | Wafer w/stud kit for 2" Flanges |
| A2 B17 | | Wafer w/stud kit for 75/100 Big Gun |
| 3" VALVES | | |
| A3 B6 | Cast Iron | 3" Victaulic |
| A3 B9 | Aluminum | Wafer (no stud kit) |
| A3 B10 | | Wafer w/stud kit for 3" Flanges |
| A3 B17 | | Wafer w/stud kit for 150 Big Gun |
| 4" VALVES | | |
| A4 B9 | Aluminum | Wafer (no stud kit) |
| A4 B10 | | Wafer w/stud kit for 4" Flanges |
| A4 B17 | | Wafer w/stud kit for 200 Big Gun |
| A4 B23 | | Wafer 6x4x6 (no stud kit) |
| A4 B24 | | Wafer 6x4x6 w/stud kit |
| 6" VALVES | | |
| A6 B9 | Aluminum | Wafer (no stud kit) |
| A6 B10 | | Wafer w/stud kit for 6" flanges |
| A6 B23 | | Wafer 8x6x8 (no stud kit) |
| A6 B24 | | Wafer 8x6x8 w/stud kit |
| 8" VALVES | | |
| A8 B9 | Aluminum | Wafer (no stud kit) |
| A8 B10 | | Wafer w/stud kit for 8" flanges |

| 2. PRESSURE | |
|-------------|--------------------|
| CODE | OPERATING PRESSURE |
| C1 | Low (10-50 psi) |
| C2 | High (30-200 psi) |
| C3 | Medium (18-80 psi) |

| 3. PRESSURE CONTROL | |
|---------------------|-------------------------|
| CODE | ADJ. RANGE |
| D01 | None |
| PRESSURE REDUCING | |
| D02 | 5-50 psi, 4-8" |
| D03 | 10-120 psi, 4-8" |
| D04 | 25-200 psi, 4-8" |
| D11 | 5-30 psi, 2" and 3" |
| D12 | 5-60 psi, 2" and 3" |
| D13 | 10-120 psi, 2" and 3" |
| PRESSURE SUSTAINING | |
| D05 | 25-200 psi, 4-8" |
| D08 | 10-120 psi, 4-8" |
| D09 | 5-50 psi, 4-8" |
| D15 | 5-60 psi, 2" and 3" |
| D16 | 10-120 psi, 2" and 3" |
| RATE OF FLOW | |
| D18-1 | 3" Pipe, 120-400 gpm |
| D18-2 | 4" Pipe, 200-550 gpm |
| D18-3 | 6" Pipe, 350-1000 gpm |
| D18-4 | 6" Pipe, 500-2000 gpm |
| D18-5 | 8" Pipe, 500-1550 gpm |
| D18-6 | 8" Pipe, 900-3800 gpm |
| SLEEVE EXHAUST | |
| D06 | Valve open below 30 psi |
| D06-1 | Valve open below 10 psi |
| SHUTTLE CHECK | |
| D07 | Shuttle Check |

SEE PAGE 26 FOR GUN/VALVE COMBO - MOUNT AN ANSI FLANGED BIG GUN® DIRECTLY ONTO A NELSON CONTROL VALVE FOR END OF PIVOT APPLICATIONS.



| 4. ON/OFF CONTROLS* | |
|-------------------------------|---|
| CODE | ON/OFF CONTROL |
| E00 | None |
| E01 | Manual Selector Only |
| MANUAL SELECTOR WITH SOLENOID | |
| E02 | E02 Solenoid - 12 VDC Lat., 2.0mm |
| E11 | E11 Solenoid - 12 VDC, 1.6mm, NC* |
| E20 | E20 Window+ Controller, 1.6mm (4-8") |
| E21 | E21 Solenoid - 12 VDC, 1.6mm |
| E23 | E23 Solenoid - 9-12 VDC Lat., 1.2mm |
| E25 | E25 Solenoid - 12 VDC, 3.2mm, NC* |
| E29 | E29 Solenoid - 12-40 VDC Lat., 2.0mm |
| E30 | E30 Solenoid - 24 VDC, 1.6mm |
| E31 | E31 Window+ Controller, 1.2mm (2" and 3") |
| E34 | E34 Solenoid - 24 VDC, 1.2mm |
| E40 | E40 Solenoid - 24 VAC, 1.6mm, 2.5W |
| E41 | E41 Solenoid - 24 VAC, 1.6mm, 8W |
| E43 | E43 Solenoid - 24 VAC, 1.2mm, 3W |
| E46 | E46 Solenoid - 24 VAC, 1.6mm, 5.5W |
| E50 | E50 Solenoid - 120 VAC, 1.6mm, 8W |
| E52 | E52 Solenoid - 120 VAC, 3.2mm, 17W |
| E53 | E53 Solenoid - 110 VAC, 1.6mm, 5.5W |

| 5. FILTER | |
|-------------------------------|-----------------------------|
| CODE | FILTER |
| H2 | External Filter |
| H3 | Internal Filter (2" and 3") |
| | Internal Filter (4-8") |
| FILTER WITH TUBING PROTECTION | |
| H4 | External Filter |
| H5 | Internal Filter (2" and 3") |
| | Internal Filter (4-8") |

*Contact Factory for full solenoid specifications. Other models available for special order.
 *Normally closed solenoid for pressure sustaining, normally open valve ("PSNO") for applications at filter stations.

Nelson Control Valves come standard normally closed. Use the following codes to specify special solenoid plumbing logic.

| OPTIONAL SOLENOID LOGIC | | | | | | | | | | | |
|-------------------------|-----------------|--------------|------------------------|-----------------|--------------|----------------------|-----------------|--------------|---------------------------------|-----------------|---------------------|
| SOLENOID ONLY | | | SUSTAINING W/ SOLENOID | | | REDUCING W/ SOLENOID | | | SUSTAINING/REDUCING W/ SOLENOID | | |
| CODE | SOLENOID STATUS | VALVE STATUS | CODE | SOLENOID STATUS | VALVE STATUS | CODE | SOLENOID STATUS | VALVE STATUS | CODE | SOLENOID STATUS | VALVE STATUS |
| L01* | Energized | Open | L03 | Energized | Sustaining | L07* | Energized | Reducing | L09 | Energized | Sustaining-Reducing |
| | De-energized | Closed | | De-energized | Closed | | De-energized | Closed | | De-energized | Closed |
| L02 | Energized | Closed | L04* | Energized | Sustaining | L08 | Energized | Closed | L10 | Energized | Sustaining |
| | De-energized | Open | | De-energized | Open | | De-energized | Reducing | | De-energized | Reducing |
| *Standard | | | L05 | Energized | Closed | L13 | Energized | Reducing | L11 | Energized | Reducing |
| | | | | De-energized | Sustaining | | De-energized | Open | | De-energized | Sustaining |
| *Standard | | | L06 | Energized | Open | L14 | Energized | Open | L12 | Energized | Open |
| | | | | De-energized | Sustaining | | De-energized | Reducing | | De-energized | Sustaining-Reducing |

*Pressure Sustaining normally-open valve ("PSNO") for applications at filter stations. *Standard

SOLENOIDS & VALVE ACCESSORIES

3-Way Solenoid Specifications

| MODEL # | MFG. | VOLTAGE | RECOMM. VALVE SIZE | IN-RUSH AMPS | HOLD-ING AMPS | RESIS-TANCE (OHM) | WATTS | INLET ORIFICE | | ELECTRICAL CONNECTION | MAX. PRES-SURE | PART NUMBERS | | |
|------------|--------------------|------------------------|--------------------|--------------|---------------|--------------------|-------|--------------------------|-------|-----------------------|----------------|--------------|------------|----------|
| | | | | | | | | | | | | KIT | COIL +BASE | COIL |
| E02 | NELSON | 12 VDC Lat | all | - | - | - | 6.7 | 2 mm (adaptable to 4 mm) | | 1/2" MNPT w/ Leads | 175 psi | 8925-032 | 12845 | - |
| E11 | GEM-SOL | 12 VDC NC ¹ | all | - | 0.83 | 14.3 | 10 | 1.6 mm | 1/16" | 1/2" FNPT w/ Leads | 175 psi | 8925-011 | 7510-011 | - |
| E21 | PARKER | 12 VDC | all | - | 0.6 | 20 | 8 | 1.6 mm | 1/16" | 1/2" FNPT w/ Leads | 175 psi | 8925-001 | 7510-001 | 7510-101 |
| E23 | BACCARA | 9/12 VDC Lat | 2" - 4" | - | - | 4.2 | 3 | 1.2 mm | 3/64" | >12" Leads | 175 psi | 8925-035 | 7510-052 | 7510-152 |
| E25 | SOLENOID SOLUTIONS | 12 VDC NC ¹ | 6" & 8" | 1.42 | 1.42 | - | 17 | 3.2 mm | 1/8" | >12" leads | 150 psi | 8925-020 | 7510-036 | 7510-136 |
| E29 | | 12-40 VDC Lat | all | - | - | - | - | 2 mm | 5/64" | 47" Leads | 140 psi | 8925-029 | 7510-029 | - |
| E30 | PARKER | 24 VDC | all | - | 0.3 | 83 | 8 | 1.6 mm | 1/16" | 1/2" FNPT w/ Leads | 175 psi | 8925-002 | 7510-002 | 7510-102 |
| E31 | BACCARA | 18-21 VDC Lat | 2" & 3" | - | - | 23 | 3 | 1.2 mm | 3/64" | Window+ | 175 psi | 11253-001 | 7510-053 | 7510-153 |
| E34 | BACCARA | 24 VDC | 2" - 4" | 0.125 | 0.125 | 119 | 3 | 1.2 mm | 3/64" | >12" Leads | 175 psi | 8925-037 | 7510-054 | 7510-154 |
| E40 | GEM-SOL | 24 VAC | all | 0.15 | 0.15 | diode ² | 2.5 | 1.6 mm | 1/16" | 1/2" FNPT Plug-In | 175 psi | 8925-043 | 7510-015 | 7510-115 |
| E41 | PARKER | 24 VAC | all | 1.1 | 0.65 | 7.8 | 8 | 1.6 mm | 1/16" | 1/2" FNPT w/ Leads | 175 psi | 8925-003 | 7510-003 | 7510-103 |
| E43 | BACCARA | 24 VAC | 2" - 4" | 0.125 | 0.125 | diode ² | 3 | 1.2 mm | 3/64" | >12" Leads | 175 psi | 8925-033 | 7510-050 | 7510-150 |
| E46 | GEM-SOL | 24 VAC | all | 0.8 | 0.43 | 9 | 5.5 | 1.6 mm | 1/16" | 1/2" FNPT Plug-In | 175 psi | 8925-044 | 7510-016 | 7510-116 |
| E50 | PARKER | 120 VAC | all | 0.2 | 0.1 | 184 | 8 | 1.6 mm | 1/16" | 1/2" FNPT w/ Leads | 175 psi | 8925-004 | 7510-004 | 7510-104 |
| E52 | PARKER | 120 VAC | 6" & 8" | 0.7 | 0.3 | 27 | 17 | 3.2 mm | 1/8" | 1/2" FNPT w/ Leads | 175 psi | 8925-024 | 7510-033 | 7510-133 |
| E53 | GEM-SOL | 110 VAC | all | 0.15 | 0.11 | 230 | 5.5 | 1.6 mm | 1/16" | 1/2" FNPT Plug-In | 175 psi | 8925-045 | 7510-051 | 7510-151 |

1. Normally closed solenoids for pressure sustaining normally open ("PSNO") applications, and other normally open valve applications.

2. If the solenoid contains a diode, the resistance reading obtained using a voltmeter will be inaccurate (extremely high). This is because a diode acts like a check valve that only opens when a sufficient amount of "pressure" (voltage) is present.

Protect control tubing from damage caused by coyotes and other animals. Choose Factory installed H4 or H5 depending on valve size or order Tubing Protection Kit #13038. It includes four 16" (40.6 cm) covers. Cut to fit.



| DESCRIPTION | 4" Valve x 6" Flange Adapter Kit | 6" Valve x 8" Flange Adapter Kit | Window + Controller w/ 12/24 VDC Lat. |
|-------------|----------------------------------|----------------------------------|---------------------------------------|
| PART NO. | 11433, 11433-001 (w/6" stud kit) | 12225, 12225-001 (w/8" stud kit) | E31 for 2, 3"; E20 for 4, 6, 8" |

ACV200

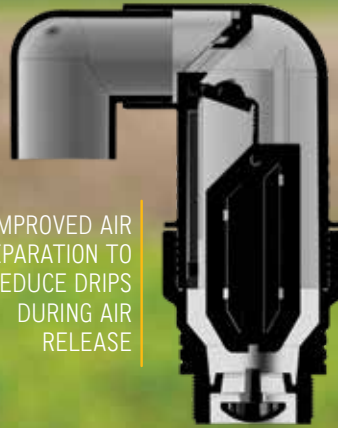
THE NELSON ACV200 AIR CONTROL VALVE PROVIDES ALL THREE TYPES OF AIR RELIEF: AIR RELIEF, VACUUM AIR RELIEF, AND CONTINUOUS AIR RELEASE UNDER PRESSURE.

9672-004 (BSP); 9672-003 (NPT)

IMPROVED DESIGN

REINFORCED SEAL PREVENTS MISALIGNMENT

IMPROVED AIR SEPARATION TO REDUCE DRIPS DURING AIR RELEASE



MATERIAL RESISTANT TO PUMP LUBRICANTS



NEXT GENERATION
TWIG®



Remotely control and monitor your irrigation system from anywhere with our new TWIG® Wireless Controls mobile app and next generation TWIG® components.



Create watering schedules; edit by drag and drop; start, stop or pause a schedule; map irrigation blocks to verify field operation; and monitor pressure and flow with our new TWIG® Wireless Controls mobile app.



1000 Series Control Valves & TWIG® Wireless Control Catalog is a separate document. Contact Factory for details.

BETTER TOGETHER

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geocropical

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