



Water Application Solutions for Agricultural Irrigation

field-proven technology

NEW PRODUCTS

FIELD-TESTED
FIELD-PROVEN

MECHANIZED IRRIGATION



New!
10 PSI
Up-Top

SOLID SET & WHEEL LINE



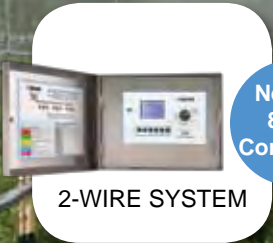
Replace
3/4" Brass
Impacts

MICRO IRRIGATION



New!
R5 Rotator
Pop-Up

CONTROL SYSTEMS



Nelson
8200
Controller

2-WIRE SYSTEM



FIELD-TESTED, FIELD-PROVEN.

Field testing of Nelson products happens all year round all around the world. It's the only way to make sure our proven line of agricultural and industrial irrigation products live up to your high expectations. We understand that our success depends upon your success. That's why we continue to provide the most trusted, high-quality products in the industry. The products that come to you field-proven start with our commitment to state-of-the-art technology and a passion for innovation. **Superior quality, unmatched performance—SPECIFY NELSON ON BOARD.**

SAVE WATER SAVE ENERGY SAVE LABOR

and do a better job of irrigating.



Water Application Solutions

mechanized irrigation

DISTINCT ADVANTAGES OF NELSON'S PIVOT ROTATOR® It's the only one of its kind!



Patented
Plate
Technology

TECHNOLOGY AT WORK

Engineered Speed Control – The Right Balance of Rotating Streams. Designed specifically for providing the very best water application on center pivots, the controlled rotation of engineered streams provides superior throw, superior uniformity and the best available conditions for getting the water into the ground. From a selection of engineered plates, the right Pivot Rotator can be matched to specific Geocropical® needs.

Greatest Throw on Drops. The Rotator applies water further ahead of the machine than any other pivot sprinkler and wets the field with intermittent applications of target droplets for optimal soil infiltration conditions.

Years of Field Results & Scientific Research Shows the Pivot Rotator Gets Water Into the Ground. The wide throw delivers the lowest Average Application Rates on drop tubes. And, testing shows that the Pivot Rotator is the best in class at minimizing runoff and soil erosion.

High Uniformity With or Without Crop Interference. Designed specifically for mechanical move systems, all Pivot Rotators deliver exceptional uniformity throughout the growing season — another powerful advantage of rotating streams.

Low Stream Heights. Rotator technology is able to optimize stream heights for maximum throw and wind-fighting capability.

No Vibration & No Special Mounting Considerations. The R3000 Rotator can be mounted up-top or on any conventional drop tube assembly – from flexible hose to rigid drops. The perfect solution for new or retrofit!

THE
"ONE" NOZZLE
SYSTEM



THE 3TN NOZZLE
— the foundation of *all* Nelson
3000 Series Pivot Products.

ROTATOR® PLATES



*Widest
Throw*

*NEW! 10 PSI
Up-Top*



*Highest
Uniformity*

Recognizing that no one sprinkler is right for every application, Nelson's rotating plate technology is configurable — to deliver the best solution.

Features include a balance of multiple droplet sizes and stream trajectories to optimize uniformity across the pattern and maximize throw distance — the best of both worlds.

Targeting larger droplets higher and farther in the water pattern and finer drops lower and closer to the sprinkler assures high uniformity, high efficiency and gets water in the ground!



*Integrate the Part
Circle Rotator
(PC-R3000) at the
towers for rut control
and wheel track
management.*

SPECIFY NELSON ON BOARD



Figuring out how to best grow crops for your particular place on earth is very important to us. We are highly focused on providing the most advanced sprinkler technology solutions that are both **GEO-CENTRIC** & **CROP-CENTRIC**. Nelson water application solutions take into account specific soil types, crop rotations and farming practices. Let us help you identify your **geocropical**® needs.



SRNV100 BIG GUN® NOZZLE VALVE

THE
"ORIGINAL"
BIG GUN®



FIELD-PROVEN
CONE STOPPER

TAKE A LOOK. NEW DESIGN FIELD-PROVEN FOR 7 YEARS.

The valve seat assembly was redesigned to incorporate a spherical radius on the valve seat. This new spherical radius provides for much better sealing with the taper bore nozzle. This is a great product that solves many problems: you can get extra acreage, flush out the system when needed and with no in-line valve there is no friction loss, no turbulence and no plugging.



Water Application Solutions

direct replacement
for 3/4" brass sprinklers

R33LP

FOR LOWER
PRESSURES



Purple
Motor

Nozzle
Options:

9/64"
5/32"
11/64"
3/16"
13/64"

Pressure:
25-50 PSI
Flow Range:
2.9-8.5 GPM

R33LP PERFORMANCE

U.S. Units

Plate	Nozzle		25 PSI	30 PSI	35 PSI	40 PSI
Gold 18	9/64"	GPM	2.88	3.15	3.40	3.68
		RAD (ft.)	37	38	40	42
Brown 20	5/32"	GPM	3.52	3.85	4.16	4.48
		RAD (ft.)	38	40	42	43
Gray 22	11/64"	GPM	4.24	4.64	5.02	5.40
		RAD (ft.)	39	41	44	44
Green 24	3/16"	GPM	5.00	5.50	5.96	6.40
		RAD (ft.)	41	43	45	46
Maroon 26	13/64"	GPM	5.90	6.50	7.05	7.60
		RAD (ft.)	43	45	46	47

Radius in feet. Measured indoors in no wind with plates mounted 18 inches above collection cups. The absence of the recommended range. Metric performance available at www.nelsonirrigation.com.

ROTATOR[®] TECHNOLOGY OBSOLETES THE IMPACT SPRINKLER

The R33 and R33LP Rotators (with 3/4" connection) provide a new standard of **PERFORMANCE** and **VALUE** from a brand recognized and trusted for high quality irrigation products.

- ◆ HIGH UNIFORMITY
- ◆ NO RISER VIBRATION
- ◆ EASY TO CLEAN
- ◆ EASY TO REPAIR
- ◆ LONG WEAR LIFE
- ◆ NO SEALS UNDER PRESSURE



ROTATOR[®] LINE EXPANDS

A low pressure version of the R33 Rotator — the **R33LP** — is now available. This option allows you to operate down to 25 PSI.

Rotator® Technology

PERFORMANCE RANGE

R33 PERFORMANCE RANGE

PSI	45 PSI		50 PSI		55 PSI	60 PSI	65 PSI
64	3.86		4.07		4.27	4.46	4.65
43	42	44	42	44	44	44	44
45	4.72		5.00		5.22	5.45	5.68
45	43	45	44	45	46	47	46
	5.70		6.01		6.30	6.57	6.83
46	44	47	44	47	47	48	48
38	6.78		7.16		7.52	7.85	8.18
49	46	49	46	50	50	50	50
55	8.00		8.45		—	—	—
—	47	—	47	—	—	—	—

of data for a particular model/plate/nozzle combination indicates the pressure is outside

R33

Gray Motor



Nozzle Options:

- 9/64"
- 5/32"
- 11/64"
- 3/16"

Pressure:
40-65 PSI
Flow Range:
3.6-8.2 GPM

The Nelson R33 Rotator® received the New Product Award for Agriculture from the Irrigation Association. The entries were judged based on product innovation, water conservation, design quality, ease of use, cost savings, time savings and user risk. **The R33 Rotator saves money and performs better than the 3/4" brass impact sprinklers it's designed to replace.** The R33 uses Nelson's proven Rotator Technology to provide longer throw distance, fight the wind and deliver uniform coverage.



The Road Guard (#11363) easily snaps on to convert the R33 and R33LP to part-circle operation.



The Flush Tool (#11161) can be used to disconnect and reconnect the sprinkler for nozzle cleaning while under pressure without getting the irrigator soaked.

The R33 and R33LP Rotators are suitable for permanent-set, portable-pipe and wheel-line applications for all type of crops, including forage crops, vegetables, grain and pastures, as well as tree/vine and small fruit crops.





Water Application Solutions

full coverage micro irrigation

PROTECT YOUR FULL COVERAGE IRRIGATION INVESTMENT — INSTALL THE NEW! R5 POP-UP

The R5 Rotator — the only micro sprinkler with the low-flow capability of drip/micro with the throw and uniformity performance of a Rotator® sprinkler — is now available in a heavy-duty “pop-up” body.

The protective armor of the **R5 Rotator Pop-Up** keeps insects out while shielding against damage during pruning, harvesting and other operations. The integral inlet screen and quick-change acme adapter significantly reduce nozzle plugging and time required to unplug sprinklers. And, to eliminate costly tubing repairs from animals or equipment damage, use the innovative new **PVC Stake Assembly** to fully protect your irrigation investment.

The durability of the R5 Pop-Up and PVC Stake Assembly provide a level of reliability that enables system automation. See back page for information on the Nelson 8200 Controller.

**PREVENT
NOZZLE
PLUGGING**



The screen on the inlet side of the R5 pop-up keeps debris from entering the nozzle. This feature does not replace normal micro sprinkler filtration requirements.



**CHOOSE LOW
MAINTENANCE**

**SPECIFY THE R5
ROTATOR POP-UP &
PVC STAKE ASSEMBLY**

**DURABILITY
— DAMAGE
CONTROL**

**KEEP
BUGS
OUT**

**NO EXPOSED
TUBING FOR
RODENTS
TO CHEW**



Shallow bury the polyethylene lateral tubing for protection and to anchor it in place. Shallow bury the feed tube for protection.

A 1/2" PVC stake is inexpensive, protects the tubing, and is much stronger than other micro irrigation stakes.



**ROTATOR
TECHNOLOGY
FIELD-PROVEN WITH
UNMATCHED PERFORMANCE**

irrigation design software



SYSTEM TYPES INCLUDE:

- Sprinkler
- Micro-sprinkler
- Drip
- Nursery
- Dust suppression
- Mainline networks
- Stock water systems
- Residential and commercial turf
- Sportsfield
- Golf course
- Systems pressurized by gravity

NO BETTER TIME TO GET ONBOARD OR UPGRADE TO IRRICAD PRO VERSION 10

- **Save Time!**
- **Produce Better Designs**
- **Easy Transition from Older Versions**

Developed by irrigation engineers for irrigation engineers, IRRICAD design software has a proven track record in the field spanning over 20 years. The commitment to the continued development of the program is as strong as ever. IRRICAD Pro offers multiple enhancements making irrigation design easier and better than ever.

If you have an older version of IRRICAD, check out the new features in IRRICAD Pro. You will be amazed at how the new tools will save you even more time and produce better designs.

IRRICAD PRO \$3995

Version 9.5 to Version 10 Upgrade \$650 (annual plan)

Version 9 to Version 10 Upgrade \$1395

Version 8 to Version 10 Upgrade \$1995

Version 5-7 to Version 10 Upgrade \$2695

Find out more — go to www.ircad.com.

IRRICAD PRO FEATURES INCLUDE:

- Purpose-built interface for easy entry of site information and system components.
- Automatic pipe sizing and analysis for looped and branching zone and mainline systems.
- Automatic fitting selection and generation of Bill Of Materials.
- Comprehensive and customizable reporting of design and BOM information.
- Customizable plan templates and flexible printing to plotters, printers or PDF files.
- Importation and exportation of image and AutoCAD files, including elevations.
- Graphical representation of the system operation.
- Easy input and subdivision of large blocks of irrigated areas.
- Conversion of drawing items to hydraulic items with ease.
- Advanced method for the calculation and use of elevation data in hydraulic calculations.
- Visual representation of errors in imported data.
- Quick labeling feature and automatic legend generation.
- Inclusion of valves, pumps and headwork components.
- Any combination of Metric or US units.



Water Application Solutions

controls & automation

for the demands of agriculture and industry

AUTOMATE WITH THE 2-WIRE 8200 CONTROLLER



ANOTHER NEW TECHNOLOGY BROUGHT TO YOU BY NELSON TO HELP SAVE WATER, SAVE ENERGY, SAVE LABOR AND DO A BETTER JOB OF IRRIGATING.

The simple interface of the Nelson 8200 Control System makes it incredibly easy to automate an entire irrigation system — regardless of the system type or size of the operation. Whether you're managing a large Big Gun® dust suppression system, an orchard with acres of Rotators, multiple zones of a drip system or miles of R2000 Windfigthers — the 8200 can tie the package together. To apply automation to your agricultural or industrial system contact Nelson Irrigation today.

FIELD-TESTED FIELD-PROVEN

BIG GUN®



8200 Controller



The 8200 Controller utilizes a two-wire system that can control up to 200 valves, running up to 10 valves at a time.

