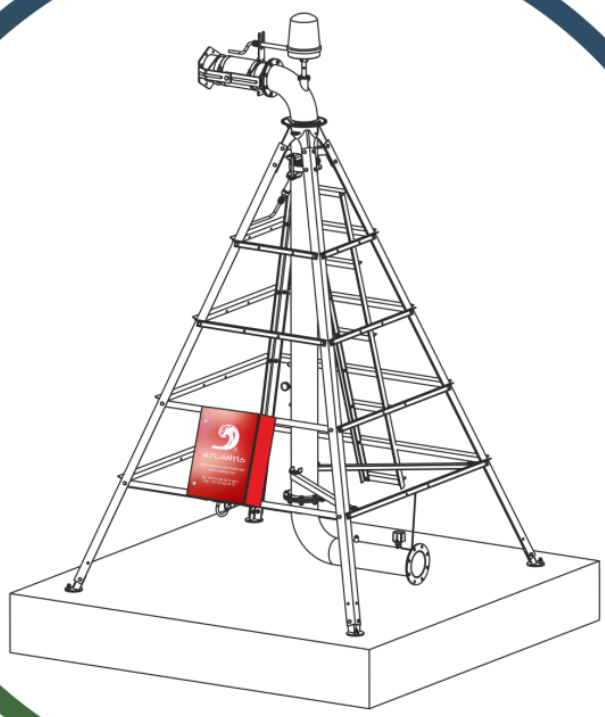


# NELSON PRODUCTS

'We work with long-lasting brands for our customers'

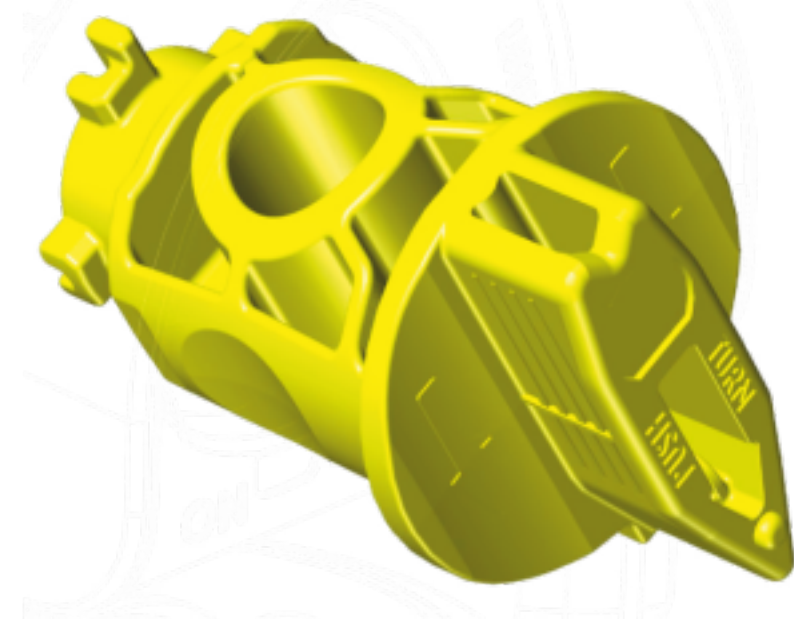


PIVOT SPRINKLER & NOZZLE & BIGGUN



# 3030 SERIES

With Multi-Function 3NV Nozzle  
PRESS, SPIN, CLICK



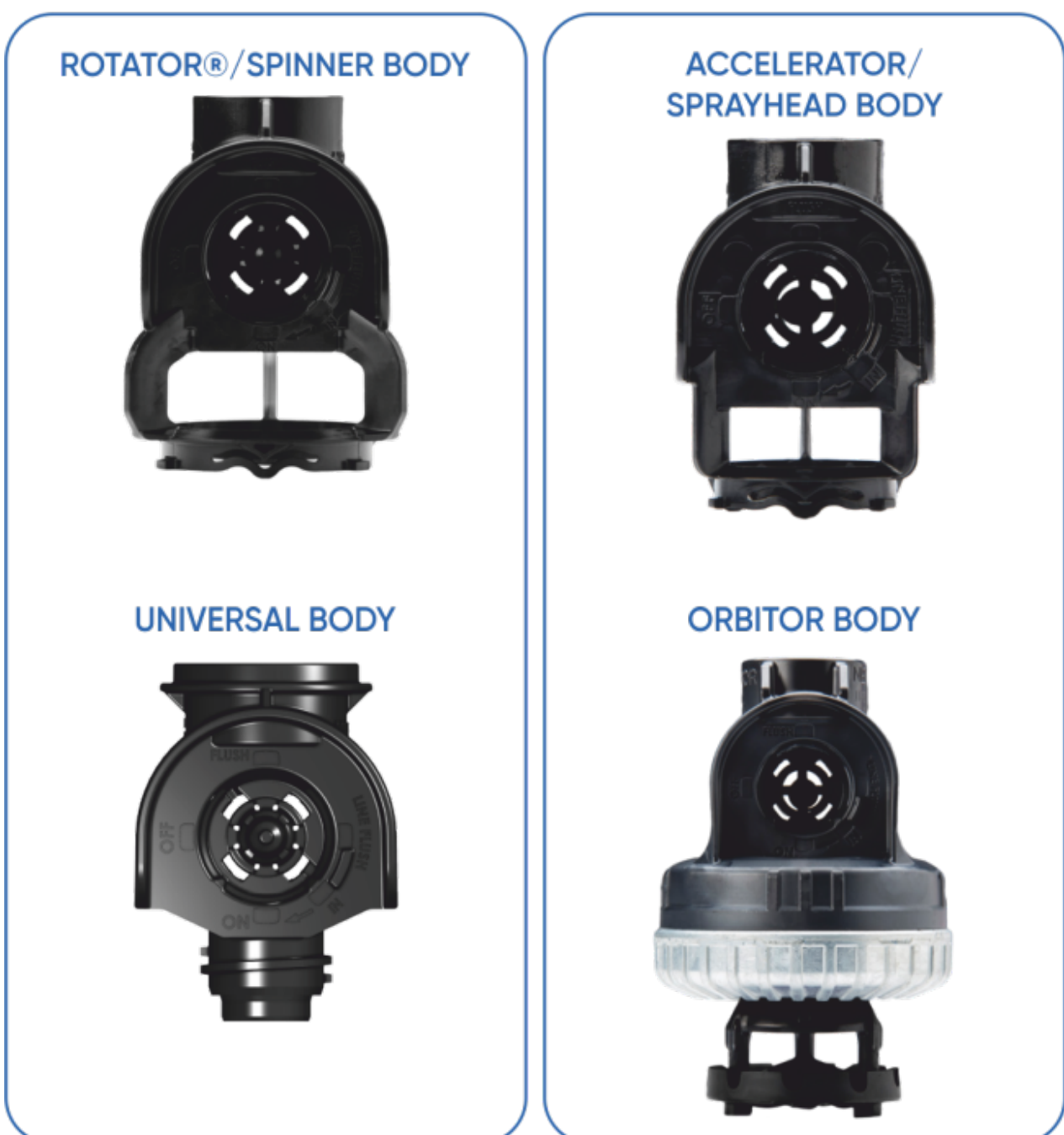
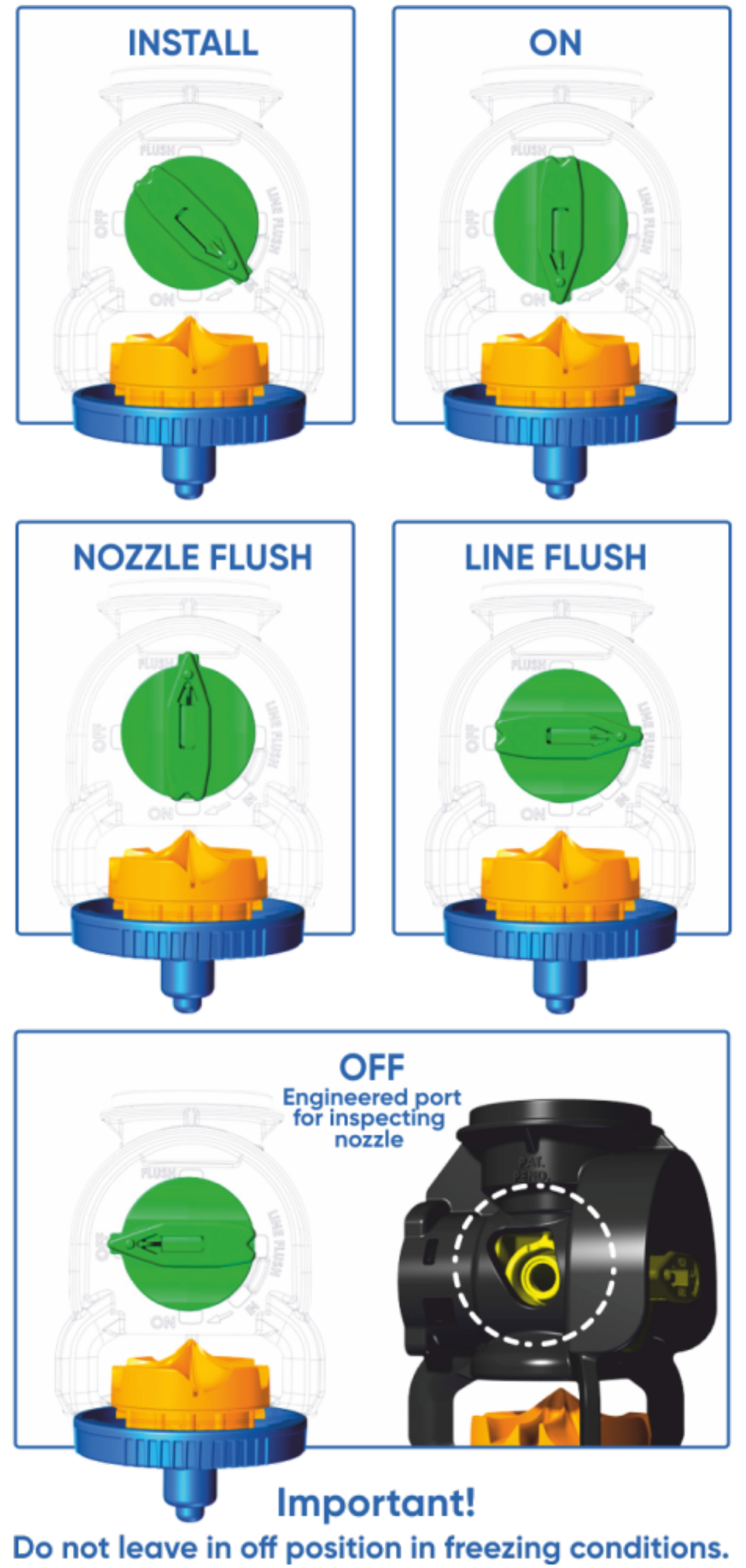
ATLANTIS  
CENTER PIVOT & LINEAR IRRIGATION SYSTEMS

COUNT ON IT

## Manage your system without ever having to remove a nozzle

At the heart of the 3030 Series is the new 3NV Nozzle. Built with the precision accuracy of the 3TN, this innovative dial-nozzle combines multiple functions so you can “micromanage” your system.

- Quick-change — push & turn, audible “click”
- Stainless steel spring for accurate and secure positioning
- Covers complete nozzle range, using the same numbering and flow rates as the 3TN Nozzle System
- Same color-codes as 3TN but oddsize nozzles have weather-enduring scalloped edge



for new system...

## SPRINKLER PACKAGE INSTALLATION ENHANCEMENTS

- Maximize efficiency & accuracy - install sprinklers, then walk the line and install nozzles.
- Lugs on end of nozzle are sized & shaped to allow only correct installation and removal.
- Visually identify sprinkler modes for quality assurance.
- Use flush function as needed depending on water quality.

... or seamless integration into existing systems.

The 3NV nozzle fits all existing sprinkler types: Rotator, Spinner, Accelerator, Sprayhead, Orbitor, Part Circle. Maximize efficiency with the Square Thread fitting.

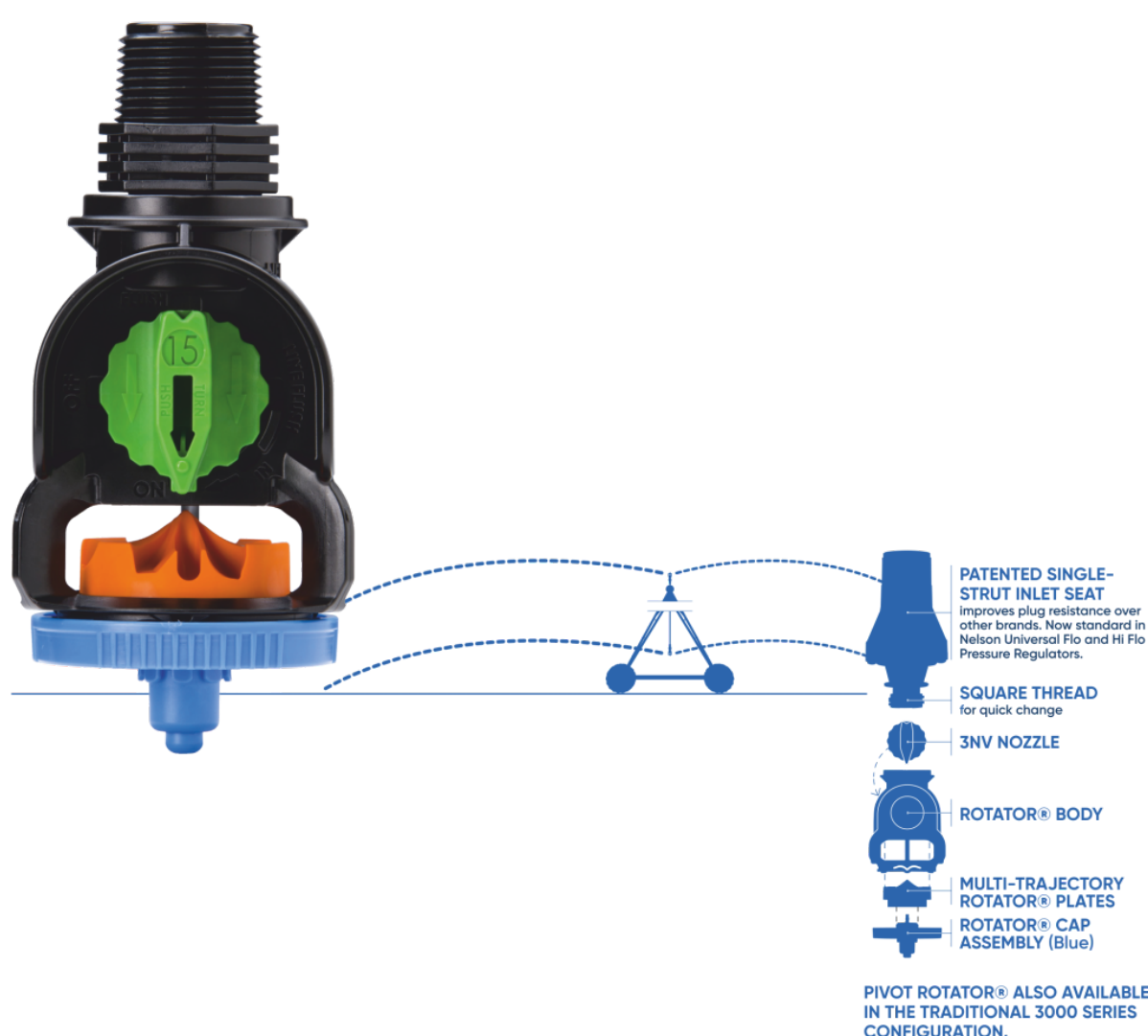
### Gain Lots, Give up Nothing.

- **SUPERIOR FLUSHING OPTIONS:** Sequence to work debris through. It's never advised to stick something in a nozzle – the 3NV flushes with a quick and simple turn of the nozzle. No tools necessary.
- **'ON' AND 'OFF' CAN BE SELECTIVE:** If you're overwatering, or if you need to conserve water for a time, simply select the sprinklers you want to turn off. Consider the cost savings of having a built-in ball valve on every sprinkler!

### COST & TIME SAVING

- To gain the benefits of the new 3030 Series you simply need a new Nozzle & Body. Existing 3000 Series Cap, Plate, Regulator & Fittings integrate entirely. (NOTE: Orbitor weight can be re-used but need new body/plate.)
- Since On, Off & Flush functions all take place without removing the nozzle, no more dropped or lost nozzles in the field!
- A 3NV Dual Nozzle clip (with Hi-Flo, Lo-Flo differentiation) helps farmers adapt to differing watering needs (such as crop establishment, chemigation or lowering water tables).

## R3030 ROTATOR®



PROTECTIVE SHIELD  
PROVIDES LONGER WEAR LIFE  
AND ENHANCED RELIABILITY.



### VERSATILE MODULAR DESIGN

Because no one sprinkler is right for all conditions, the 3030 Series features modular design components which are easily changed with a simple push and turn. You may want to start out the season with one configuration and change to a different one later.

**ATLANTIS**  
CENTER PIVOT & LINEAR IRRIGATION SYSTEMS

COUNT ON IT

# FEATURES & BENEFITS

## GREATER THROW RADIUS

Nelson's Pivot Rotator® features the greatest throw distance available on drop tubes. As a rotating type sprinkler the Rotator® produces a wider pattern resulting in a lower application rate, reduced runoff and longer soak time.

## REDUCED WIND DRIFT AND EVAPORATIVE LOSS

The Rotator® more than meets the challenge of putting a rotating-type sprinkler on drop tubes — down out of the wind — to minimize wind drift and evaporative loss.

## COLOR-CODED NOZZLES

The 3NV Nozzle system is at the center of the 3030 Series Pivot Product line with easy-to-identify, wear-resistant, precision-accurate nozzles. This innovative dial-nozzle combines multiple functions so you can 'micro-manage' your system. PRESS, SPIN, CLICK between 'on', 'off', 'flush' and 'line flush' functions.

PIVOT ROTATOR® PERFORMANCE*		PRESSURE RANGE*	3NV NOZZLE RANGE**		THROW DIAMETER DATA*** (no wind tests)
	<b>U4-8° BLUE PLATE</b> FOR UP-TOP APPLICATIONS Utilizes 4 low-trajectory streams for excellent coverage and windfighting ability at higher pressures.	20-50 PSI (1.4-3.4 BAR)	MINIMUM #14 @ 30 PSI (2.0 BAR) #16 for lower pressures	MAX #50	MOUNTING HEIGHT 12 FT. (3.7 M) THROW DIAMETER 70 FT. (21.3 M)  COVERAGE @ 30 PSI (2.0 BAR) #32 NOZZLE
	<b>MULTI-TRAJECTORY WHITE PLATE</b> FOR UP-TOP APPLICATIONS Designed with multiple trajectory streams for superior up-top performance at low pressures.	15-30 PSI (1.0-2.0 BAR)	#14 @ 15 PSI (1.0 BAR)	#50	MOUNTING HEIGHT 12 FT. (3.7 M) THROW DIAMETER 74 FT. (22.6 M)  COVERAGE @ 30 PSI (2.0 BAR) #32 NOZZLE
	<b>D4-8° GREEN PLATE</b> FOR DROP TUBE APPLICATIONS Utilizes 4 low-trajectory streams for maximum coverage and windfighting ability.	20-50 PSI (1.4-3.4 BAR)	#14 @ 30 PSI (2.0 BAR) #16 for lower pressures	#50	MOUNTING HEIGHT 9 FT. (2.7 M) THROW DIAMETER 72 FT. (21.9 M) MOUNTING HEIGHT 6 FT. (1.8 M) THROW DIAMETER 64 FT. (19.5 M)  COVERAGE @ 30 PSI (2.0 BAR) #32 NOZZLE
	<b>D6-12° RED PLATE</b> FOR DROP TUBE APPLICATIONS 6 medium-trajectory, diffused streams provide droplet breakup with low stream height.	15-30 PSI (1.0-2.0 BAR)	#14 @ 15 PSI (1.0 BAR)	#50	MOUNTING HEIGHT 9 FT. (2.7 M) THROW DIAMETER 66 FT. (20.1 M) MOUNTING HEIGHT 6 FT. (1.8 M) THROW DIAMETER 58 FT. (17.7 M)  COVERAGE @ 25 PSI (1.7 BAR) #36 NOZZLE
	<b>MULTI-TRAJECTORY ORANGE PLATE</b> FOR DROP TUBE APPLICATIONS Designed with multiple trajectory streams to penetrate the upper canopy of tall crops.	15-30 PSI (1.0-2.0 BAR)	#14 @ 15 PSI (1.0 BAR)	#50	MOUNTING HEIGHT 9 FT. (2.7 M) THROW DIAMETER 72 FT. (21.9 M) MOUNTING HEIGHT 6 FT. (1.8 M) THROW DIAMETER 66 FT. (20.1 M)  COVERAGE @ 25 PSI (1.7 BAR) #36 NOZZLE
	<b>MULTI-TRAJECTORY BROWN PLATE</b> FOR DROP TUBE APPLICATIONS 10 multiple trajectory streams provide maximum uniformity and superior performance on low growing crops like potatoes.	15-30 PSI (1.0-2.0 BAR)	#14 @ 15 PSI (1.0 BAR)	#50	MOUNTING HEIGHT 9 FT. (2.7 M) THROW DIAMETER 68 FT. (20.7 M) MOUNTING HEIGHT 6 FT. (1.8 M) THROW DIAMETER 62 FT. (18.9 M)  COVERAGE @ 25 PSI (1.7 BAR) #36 NOZZLE
	<b>LOW-PRESSURE OLIVE PLATE</b> FOR LOW-PRESSURE APPLICATIONS 10 multiple trajectory streams provide maximum uniformity and superior performance on low growing crops like potatoes.	10-15 PSI (0.7-1.0 BAR)	#12 @ 10 PSI (.7 BAR)	#50	MOUNTING HEIGHT 6 FT. (1.8 M) THROW DIAMETER 58 FT. (17.7 M)  COVERAGE @ 15 PSI (1.0 BAR) #36 NOZZLE

\* Careful selection of pressure and sprinkler configuration must be taken into account to optimize droplet size.

\*\* Pressure limits may exist on minimum and maximum nozzle sizes.

\*\*\* Throw Distance Varies with Pressure, Nozzle Size, Mounting Height and Hydraulic Conditions.

## PIVOT SPRINKLERS / 3030 S E R I E S

### A FAMILY OF PRODUCTS FOR A MULTITUDE OF NEEDS

VAST DIFFERENCES IN CROPS, SOILS, FARMING PRACTICES AND CLIMATIC CONDITIONS WORLDWIDE, COUPLED WITH REGIONAL DIFFERENCES IN THE AVAILABILITY OF WATER AND ENERGY REQUIRE AN ARRAY OF SPRINKLER PERFORMANCE CHARACTERISTICS. WE HAVE WHAT YOU NEED TO GET THE JOB DONE:



### IN ORDER TO SELECT THE BEST PRODUCT FOR YOUR NEEDS CONSIDER THE FOLLOWING:

- AVAILABLE PRESSURE | Choose performance - save water and energy.
- DESIRED UNIFORMITY & THROW DISTANCE | Rotator provides highest uniformity possible.
- SOIL TYPES | See pages 16-17 for infiltration curves as they relate to application rates.
- WIND CONDITIONS | Choose sprinkler with multi-trajectory plate options to fight the wind while also filling in the water pattern.

# 3030 SERIES / OPTIONS

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

UP-TOP OR DROPS

**GREATER THROW RADIUS.**  
As a rotating type sprinkler the R3000 & R3030 Rotator® produce a wider pattern resulting in a lower application rate, reduced runoff and longer soak time.

**HIGHER UNIFORMITY.**  
The Rotator greatly improves uniformity because of the increased overlap from adjacent sprinklers.

**REDUCED WIND DRIFT AND EVAPORATIVE LOSS.**  
The Rotator more than meets the challenge of putting a rotating type sprinkler on drop tubes – down out of the wind – to minimize wind drift and evaporative loss.

**NOZZLE: 3TN OR 3NV**  
**APPLICATION RATE: LOW**

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

UP-TOP OR DROPS

**COMBINATION OF THROW DISTANCE AND SMALLER DROPLETS.**  
The Accelerator increases rotation speed through the nozzle range for the right balance of wind-fighting and proper treatment of the soil. Its unique design provides a low pressure option with the proven reliability and long wear life of the Rotator.

**VERSATILITY.**  
Maximizes performance of in-canopy water application and also provides a lower cost, low pressure solution in many above canopy applications. With no vibration, mount on any type of drop assembly or up-top.

**NOZZLE: 3TN OR 3NV**  
**APPLICATION RATE: LOW-MEDIUM**

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

UP-TOP OR DROPS

**GENTLE RAIN AT LOW PRESSURE.**  
The free-spinning action of the S3000 & S3030 Spinner provides a gentle, rain-like droplet for sensitive soils and crops.

**SUPERIOR UNIFORMITY AT LOW PRESSURE.**  
A low pressure alternative to fixed spray-heads, the Spinner provides higher uniformity with better overlap and lower application rates.

**NO MOUNTING RESTRICTIONS.**  
The Spinner operates without vibration. Retrofit on rigid, semi-rigid, or flexible drop hose assemblies.

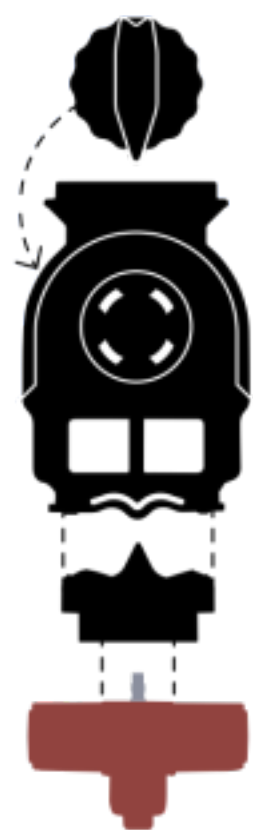
**NOZZLE: 3TN OR 3NV**  
**APPLICATION RATE: LOW-MEDIUM**

## THROW DIAMETER, PRESSURE & NOZZLE RANGE



BLUE ROTATOR® CAP

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
						
70' DIAMETER (21.3 M) AT 12' (3.7 M) MOUNTING @ 30 PSI (2.0 BAR) #32 NOZZLE	74' DIAMETER (22.6 M) AT 12' (3.7 M) MOUNTING @ 30 PSI (2.0 BAR) #32 NOZZLE	72' DIAMETER (21.9 M) AT 9' (2.7 M) MOUNTING @ 30 PSI (2.0 BAR) #32 NOZZLE	66' DIAMETER (20.1 M) AT 9' (2.7 M) MOUNTING @ 25 PSI (1.7 BAR) #36 NOZZLE	72' DIAMETER (21.9 M) AT 9' (2.7 M) MOUNTING @ 25 PSI (1.7 BAR) #36 NOZZLE	68' DIAMETER (20.7 M) AT 9' (2.7 M) MOUNTING @ 25 PSI (1.7 BAR) #36 NOZZLE	58' DIAMETER (17.7) AT 6' (1.8 M) MOUNTING @ 15 PSI (1.0 BAR) #36 NOZZLE
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)



MAROON ACCELERATOR CAP

MAX. #50 NOZ. MIN. #10 NOZ. @ 10 PSI (0.7 BAR) #18 @ 6 PSI	MAX. #50 NOZ. MIN. #10 NOZ. @ 15 PSI (1.0 BAR) #12 @ 10 PSI #18 @ 6 PSI	MAX. #50 NOZ. MIN. #10 NOZ. @ 15 PSI (1.0 BAR) #12 @ 10 PSI #18 @ 6 PSI
MAROON	GOLD	NAVY UP-TOP
		
48' DIAMETER (14.6 M) AT 9' (2.7 M) MOUNTING @ 10 PSI (0.7 BAR) #32 NOZZLE	54' DIAMETER (16.5 M) AT 9' (2.7 M) MOUNTING @ 10 PSI (0.7 BAR) #36 NOZZLE	55' DIAMETER (16.8 M) AT 12' (3.7 M) MOUNTING @ 10 PSI (0.7 BAR) #36 NOZZLE
6-15 PSI (0.4-1.0 BAR)	6-15 PSI (0.4-1.0 BAR)	6-15 PSI (0.4-1.0 BAR)



OPTIONAL SPRINKLER CONVERTER



EASILY CONVERT FROM ACCELERATOR TO SPRAYHEAD TO BUBBLER



GRAY SPINNER CAP

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°



44' DIAMETER  
(13.4 M) AT 6'  
(1.8 M) MOUNTING  
@ 15 PSI (1.0 BAR)  
#36 NOZZLE

10-20 PSI  
(0.7-1.4 BAR)

PURPLE  
D6-20°



54' DIAMETER  
(16.5 M) AT 6'  
(1.8 M) MOUNTING  
@ 15 PSI (1.0 BAR)  
#36 NOZZLE

10-20 PSI  
(0.7-1.4 BAR)

YELLOW  
D8-21°



50' DIAMETER  
(15.2 M) AT 6'  
(1.8 M) MOUNTING  
@ 15 PSI (1.0 BAR)  
#36 NOZZLE

10-20 PSI  
(.7-1.4 BAR)

BEIGE\*  
SMALL NOZZLE



38' DIAMETER  
(11.6 M) AT 6'  
(1.8 M) MOUNTING  
@ 15 PSI (1.0 BAR)  
#12 NOZZLE

10-15 PSI  
(0.7-1.0 BAR)



PART  
CIRCLE  
SPINNER

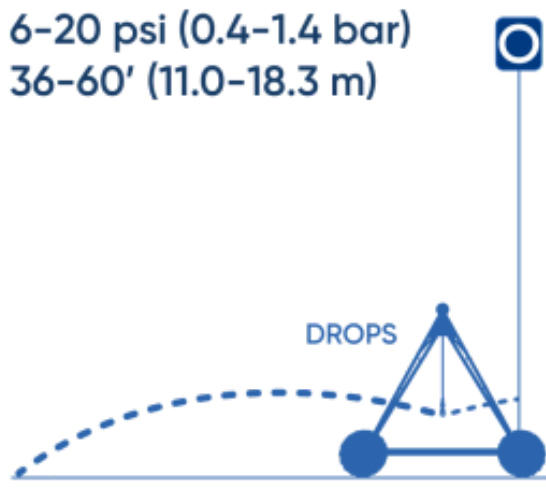
#14-40 NOZ.  
10-20 PSI  
(.7-1.4 BAR)

\*The beige plate should be used on flexible drops, or those with at least 1ft. (.3 m) of hose. The smaller nozzles will be more susceptible to plugging.

## 3030 SERIES / OPTIONS

### ORBITOR

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



### STREAMLINED DESIGN.

Featuring technology that eliminates the struts of a sprinkler body, Nelson's Pivot Orbitor provides outstanding uniformity and optimal droplets at low pressures (6-20 psi / 0.4-1.4 bar). Expect long wear life and durability in poor water conditions, because there are no sprinkler body struts for debris to hang up on.

### REDUCED WIND DRIFT AND EVAPORATIVE LOSS.

Strutless sprinkler body design reduces droplet breakup, drift and drool.

IMPORTANT! THE ORBITOR REQUIRES A MINIMUM OF 2' (0.6 M) OF REINFORCED FLEXIBLE HOSE IN THE MOUNTING ASSEMBLY.

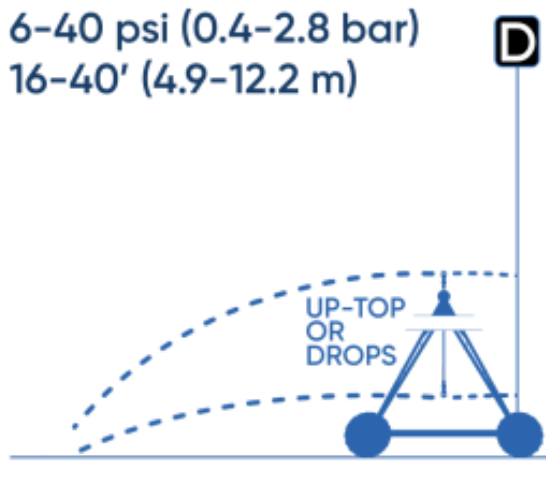
NOZZLE: 3TN OR 3NV

APPLICATION RATE: LOW-MEDIUM



### SPRAYHEAD

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



### GERMINATE, IRRIGATE & CHEMIGATE.

The flip-over dual spray cap allows easy conversion of the spray pattern. Choose from spray plate options to germinate, irrigate, and chemigate.

### "LOW ENERGY DOWN IN THE CROP".

The sleek, crop-guarded body design provides durability for dragging the Sprayhead down in tall growing crops like corn.

### OPTIONAL LEPA ACCESSORIES.

The hose drag adapter allows simple conversion of the Sprayhead to a hose drag system. Both the D3000 and D3030 have "bubble" modes for LEPA. D3000 requires bubble clip - see page 15.

NOZZLE: 3TN OR 3NV

APPLICATION RATE: HIGH



### TRASHBUSTER PRESSURE & THROW DEPENDS ON SPRINKLER SELECTION

NOZZLE: 3TN OR 3000FC  
APPLICATION RATE: LOW-HIGH

### FLOW CONTROL NOZZLE.

The Flow Control Nozzle (only available for 3000 Series) not only eliminates the need for pressure regulators, but also passes debris more easily. It is not to be used on flexible hose drop assemblies.

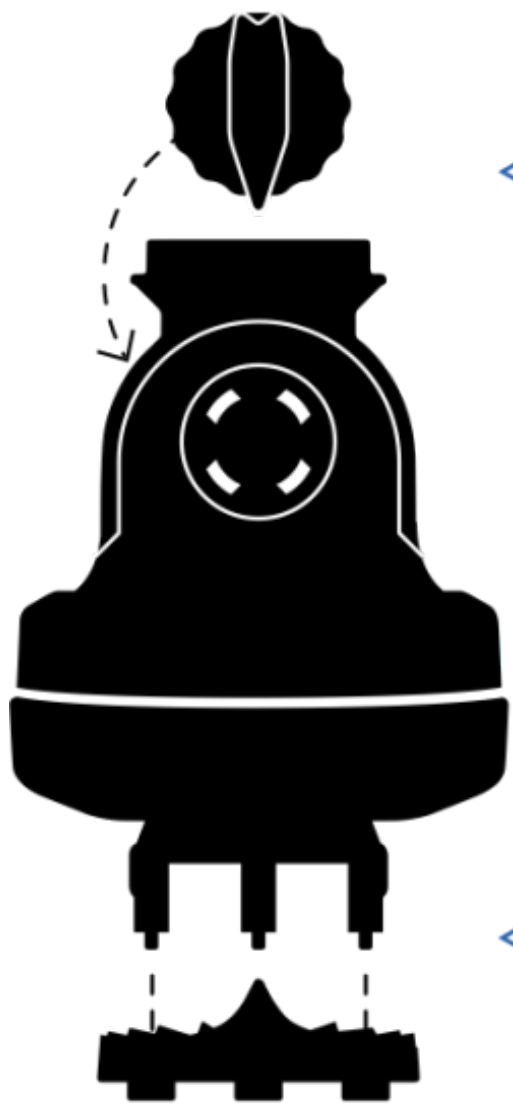
### BODY DESIGNED FOR WASTEWATER.

The open architecture design of the body allows for debris to pass through more easily, alleviating build up of material on the plate and body.

### BY OPERATING ON DROP TUBES

You can distribute effluent more days of the year, keep corrosive water off the pivot structure, eliminate excess wind/pathogen drift, and reduce odor. The Trashbuster can be configured into either a Spray or Rotator sprinkler.





#11-#50 NOZ. NOZZLE RANGE      #11-#50 NOZ. NOZZLE RANGE      #11-#50 NOZ. NOZZLE RANGE

BLACK STANDARD ANGLE	BLUE LOW ANGLE	PURPLE SMALL DROPLET
		
58' DIAMETER (17.7 M) AT 6' (1.8 M) MOUNTING @ 15 PSI (1.0 BAR) #36 NOZZLE	50' DIAMETER (15.2 M) AT 6' (1.8 M) MOUNTING @ 15 PSI (1.0 BAR) #36 NOZZLE	47' DIAMETER (14.3 M) AT 6' (1.8 M) MOUNTING @ 15 PSI (1.0 BAR) #36 NOZZLE

6-20 PSI (0.4-1.4 BAR)      6-20 PSI (0.4-1.4 BAR)      6-20 PSI (0.4-1.4 BAR)

### 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 Weights (page 25) or 3/4" NPT threaded weights. Slip weights require the Nelson Clamp Saver.
  - 4) Always be sure that the Orbitor Weight, Slim Weight, or threaded weight is 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.





**BLACK FLIP-OVER SPRAYHEAD CAP**

TURQUOISE	GREEN	BLUE	GRAY
RED	YELLOW	BLACK	ORANGE
WHITE	PURPLE	BROWN	TAN BUBBLE-WIDE

SEE SPRAYHEAD LITERATURE FOR PLATE CHARACTERISTICS, THROW DIAMETER AND PRESSURE/NOZZLE RANGES. THE SPRAYHEAD CAN BE USED UP-TOP OR ON DROPS.

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

**U3030 BODY #12381 PART CIRCLE SPRAY #9894-001**

**U3030 BODY #12381 HOSE DRAG ADAPTER #9427**

**"LE" LOW ENERGY**

**BUBBLER ATTACHMENT (LEPA) #10577 FOR D3000 ONLY**

**FLIP-OVER HOSE DRAG CAP ASSEMBLY #12676**

**SHOWN WITH SPRAY/ACCELERATOR BODY. FLIP OVER TO USE WITH ROTATOR/SPINNER BODY.**

**ROTATOR® CONFIGURATION**

**BLUE ROTATOR CAP**

BLUE
GREEN

**SPRAYHEAD CONFIGURATION**

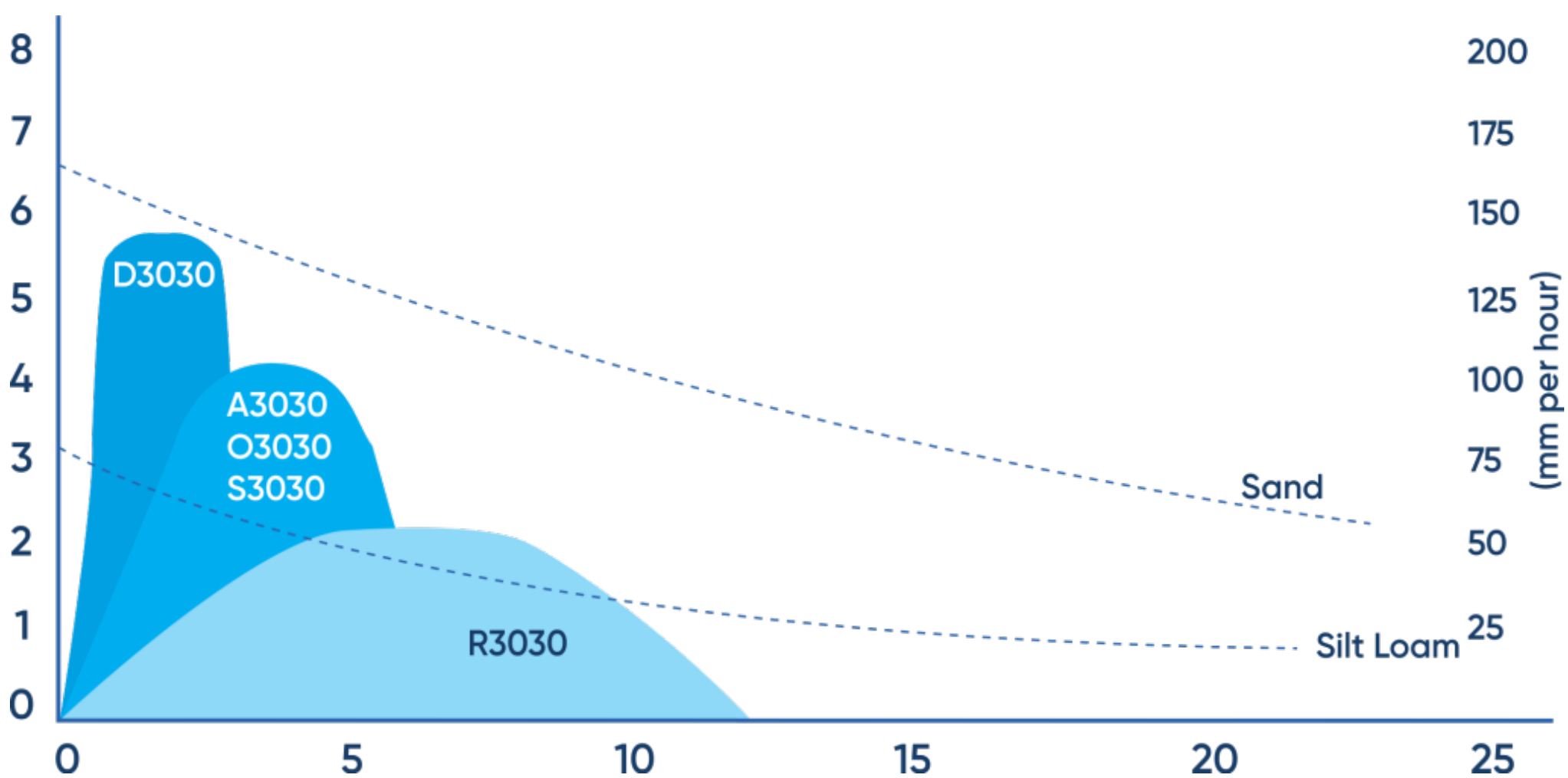
GREEN	YELLOW	PURPLE
BLUE	BLACK	ORANGE

**PURPLE T3000 CAP & SPRAY PLATE**

**3000FC NOZZLE #10106-XXX REQUIRES A RIGID DROP AND 25 PSI (1.7 BAR) MINIMUM.**

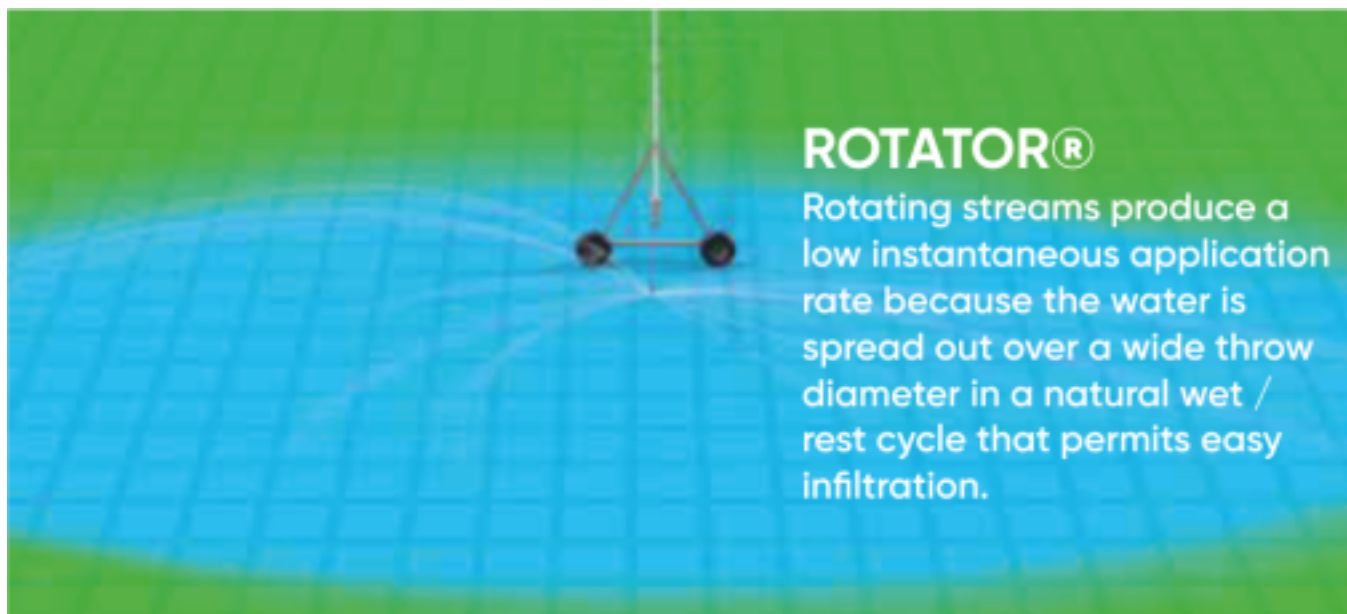
## UNDERSTANDING APPLICATION RATES

WITH SUPERIMPOSED APPLICATION RATES FOR CENTER PIVOT SPRINKLERS, IT IS OBVIOUS THAT THE ROTATOR®, WHICH PROVIDES THE WIDEST THROW DISTANCE ON DROP TUBES, COMES THE CLOSEST TO MATCHING INFILTRATION RATES OF THE SOIL. THE BEST CONDITION FOR INFILTRATION IS TO KEEP THE SOIL SURFACE OPEN AND APPLY WATER USING A WIDE APPLICATION WIDTH.



WITHOUT SPRINKLER PERFORMANCE THAT CAN APPLY WATER AT AN APPLICATION RATE THAT MORE CLOSELY MATCHES THE INFILTRATION RATE OF THE SOIL, THE EFFICIENCY GAINED WITH DROPS — AND MONEY SAVED WITH LOW PRESSURE — IS SOON LOST TO RUNOFF.

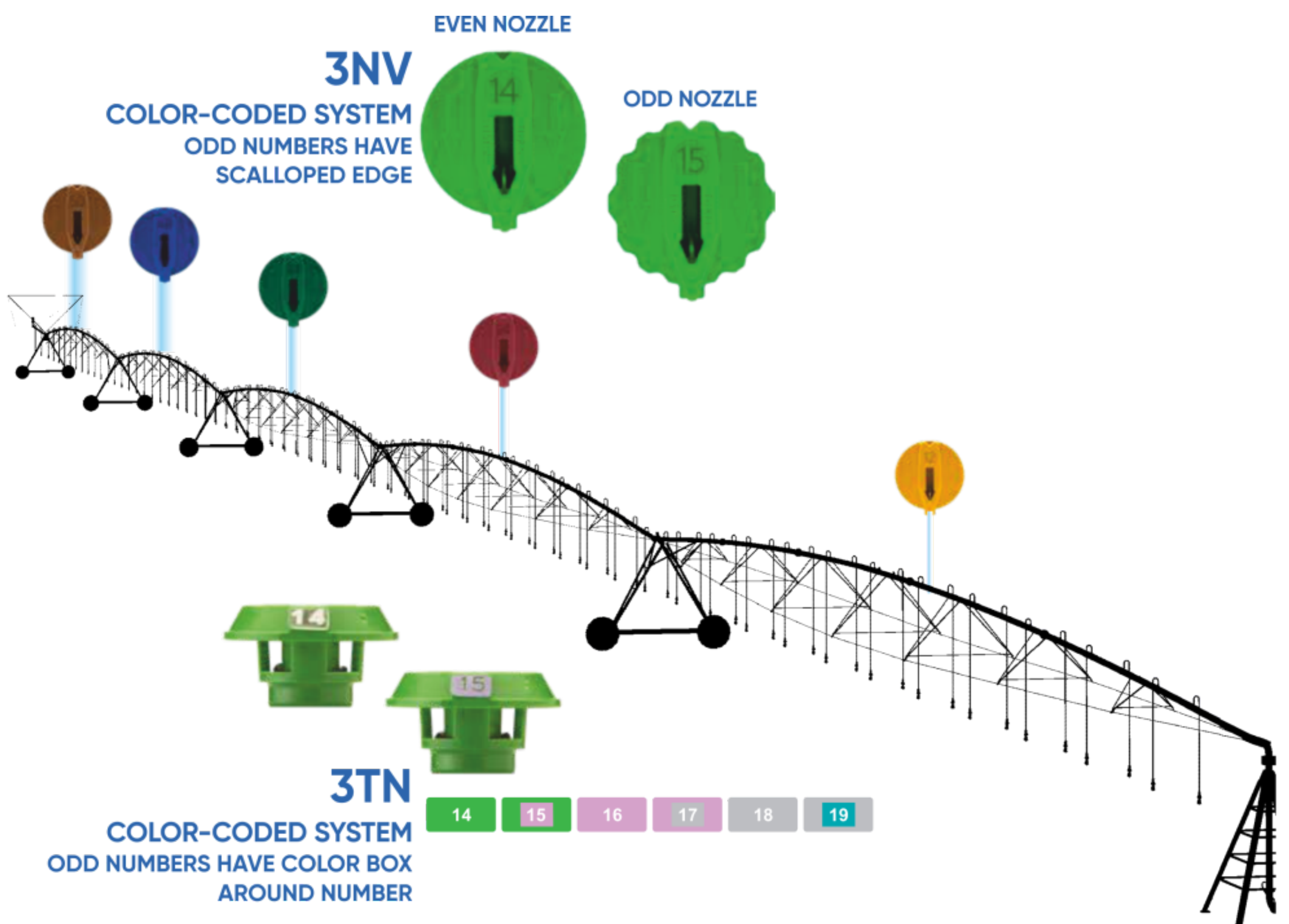
Average application rate (AAR) is the rate of water application over the wetted area. It is an average value assuming uniformity within the wetted area. Pivot average application rates increase with the higher flow demands required at the outer portion of a center pivot. Comparably, in analyzing different sprinkler options, superior throw distance yields lower average application rates.



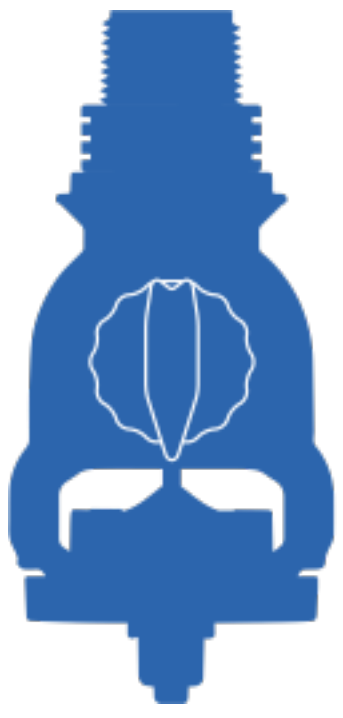
## PRECISION IRRIGATION – BEGINNING TO END

### DO YOUR DUE DILIGENCE

An accurate nozzle chart is essential to center pivot irrigation. Nelson has developed a highly-sophisticated design tool for dealers and distributors to determine nozzle sizing after entering system specs and selecting pivot spans, fittings, sprinklers and regulators. Irrigating in a circle is complex-make sure you use the necessary tools to get the job done right the first time.



# PERFORMANCE DATA



# NOZZLE CHART

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.

NOZZLE #	#9		#10		#11		#12		#13		#14		#15		#16		#17		#18		#19		
COLOR	LIGHT BLUE		BEIGE		BEIGE		GOLD		GOLD		LIME		LIME		LAVENDER		LAVENDER		GRAY		GRAY		
COLOR BOX (3TN)	BEIGE				GOLD				LIME				LAVENDER				GRAY				TURQUOISE		
PSI	BAR	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
6	0.4	0.34	1.28	0.42	1.59	0.50	1.89	0.61	2.30	0.71	2.68	0.82	3.10	0.95	3.59	1.08	4.08	1.22	4.61	1.36	5.14	1.53	5.79
10	0.7	0.44	1.66	0.54	2.04	0.65	2.46	0.79	2.99	0.92	3.48	1.06	4.01	1.23	4.65	1.40	5.29	1.58	5.98	1.75	6.62	1.97	7.45
15	1.0	0.53	2.00	0.66	2.50	0.79	2.99	0.96	3.63	1.13	4.27	1.29	4.88	1.51	5.71	1.71	6.47	1.93	7.30	2.14	8.09	2.41	9.12
20	1.4	0.62	2.34	0.76	2.87	0.92	3.48	1.11	4.20	1.30	4.92	1.49	5.63	1.74	6.58	1.98	7.49	2.23	8.44	2.48	9.38	2.79	10.56
25	1.7	0.69	2.61	0.85	3.22	1.02	3.86	1.24	4.69	1.46	5.52	1.67	6.32	1.95	7.38	2.21	8.36	2.50	9.46	2.77	10.48	3.12	11.81
30	2.1	0.76	2.87	0.93	3.52	1.12	4.23	1.36	5.14	1.59	6.01	1.83	6.92	2.14	8.09	2.42	9.15	2.74	10.37	3.03	11.46	3.41	12.90
40	2.8	0.87	3.29	1.07	4.05	1.29	4.88	1.57	5.94	1.84	6.96	2.11	7.98	2.47	9.34	2.80	10.59	3.16	11.96	3.50	13.24	3.94	14.91
50	3.4	0.97	3.67	1.20	4.54	1.45	5.48	1.76	6.66	2.06	7.79	2.36	8.93	2.76	10.44	3.13	11.84	3.53	13.32	3.91	14.79	4.41	16.69

NOZZLE #	#20		#21		#22		#23		#24		#25		#26		#27		#28		#29		#30		
COLOR	TURQUOISE		TURQUOISE		YELLOW		YELLOW		RED		RED		WHITE		WHITE		BLUE		BLUE		DARK BROWN		
COLOR BOX (3TN)			YELLOW				RED				WHITE				BLUE				DARK BROWN				
PSI	BAR	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
6	0.4	1.70	6.43	1.84	6.96	2.04	7.72	2.22	8.40	2.44	9.23	2.64	9.99	2.87	10.86	3.07	11.61	3.35	12.68	3.58	13.55	3.83	14.49
10	0.7	2.19	8.28	2.38	9.00	2.64	9.99	2.86	10.82	3.16	11.96	3.41	12.90	3.70	14.00	3.97	15.00	4.32	16.35	4.62	17.48	4.94	18.69
15	1.0	2.69	10.18	2.91	11.01	3.23	12.22	3.50	13.24	3.86	14.61	4.17	15.78	4.53	17.14	4.86	18.39	5.29	20.02	5.66	21.42	6.06	22.93
20	1.4	3.10	11.73	3.36	12.71	3.73	14.11	4.05	15.32	4.46	16.88	4.82	18.24	5.23	19.79	5.61	21.23	6.11	23.12	6.53	24.71	6.99	26.45
25	1.7	3.47	13.13	3.76	14.23	4.17	15.78	4.52	17.10	4.99	18.88	5.38	20.36	5.85	22.14	6.27	23.73	6.83	25.85	7.30	27.63	7.82	29.59
30	2.1	3.80	14.38	4.12	15.59	4.56	17.25	4.96	18.77	5.47	20.70	5.90	22.33	6.41	24.26	6.87	26.00	7.48	28.31	8.00	30.28	8.56	32.39
40	2.8	4.39	16.61	4.76	18.01	5.27	19.94	5.72	21.65	6.31	23.88	6.81	25.77	7.40	28.00	7.94	30.65	8.64	32.70	9.24	34.97	9.89	37.43
50	3.4	4.90	18.54	5.32	20.13	5.89	22.29	6.40	24.22	7.06	26.72	7.61	28.80	8.28	31.33	8.87	33.57	9.66	36.56	10.33	39.13	11.06	41.86

NOZZLE #	#31		#32		#33		#34		#35		#36		#37		#38		#39		#40		#41		
COLOR	DARK BROWN		ORANGE		ORANGE		DARK GREEN		DARK GREEN		PURPLE		PURPLE		BLACK		BLACK		DARK TURQUOISE		DARK TURQUOISE		
COLOR BOX (3TN)	ORANGE				DARK GREEN				PURPLE				BLACK				DARK TURQUOISE				MUSTARD		
PSI	BAR	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
6	0.4	4.06	15.36	4.36	16.50	4.65	17.60	4.94	18.69	5.20	19.68	5.47	20.07	5.84	22.10	6.18	23.39	6.52	24.68	6.85	25.92	7.26	27.48
10	0.7	5.24	19.83	5.63	21.50	6.00	22.71	6.37	24.11	6.72	25.43	7.06	26.72	7.54	28.54	7.97	30.16	8.42	31.87	8.85	33.49	9.37	35.47
15	1.0	6.41	24.26	6.89	26.07	7.35	29.71	7.81	29.56	8.23	31.15	8.65	32.74	9.24	34.97	9.77	36.98	10.31	39.02	10.84	41.02	11.48	43.45
20	1.4	7.40	28.00	7.96	30.12	8.49	32.13	9.01	34.10	9.50	35.95	9.98	37.77	10.67	40.38	11.28	42.69	11.91	45.08	12.51	47.35	13.26	50.19
25	1.7	8.28	31.34	8.90	33.68	9.49	35.91	10.08	38.15	10.62	40.19	11.16	42.24	11.92	45.11	12.61	47.72	13.31	50.38	13.99	52.95	14.82	56.09
30	2.1	9.07	34.32	9.75	36.90	10.39	39.32	11.04	41.78	11.64	44.05	12.23	46.29	13.06	49.43	13.81	52.27	14.58	55.19	15.33	58.02	16.23	61.43
40	2.8	10.47	36.62	11.26	42.62	12.00	45.42	12.75	48.25	13.44	50.87	14.12	53.44	15.08	57.07	15.95	60.37	16.84	63.74	17.70	66.99	18.75	70.97
50	3.4	11.71	44.32	12.59	47.65	13.42	50.79	14.25	53.93	15.02	56.85	15.79	59.76	16.86	63.81	17.83	67.48	18.81	71.20	19.79	74.90	20.96	79.33

NOZZLE #	#42		#43		#44		#45		#46		#47		#48		#49		#50		
COLOR	MUSTARD		MUSTARD		MAROON		MAROON		CREAM		CREAM		DARK BLUE		DARK BLUE		COPPER		
COLOR BOX (3TN)			MAROON				CREAM				DARK BLUE				COPPER				
PSI	BAR	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
6	0.4	7.60	28.76	7.96	30.13	8.33	31.52	8.73	33.04	9.12	34.51	9.58	36.26	9.96	37.69	10.31	39.02	10.77	40.76
10	0.7	9.81	37.13	10.28	38.91	10.75	40.68	11.27	42.66	11.77	44.54	12.36	46.78	12.86	48.67	13.31	50.38	13.91	52.64
15	1.0	12.01	45.45	12.59	47.65	13.17	49.84	13.80	52.23	14.41	54.54	15.14	57.30	15.75	59.61	16.30	61.70	17.03	64.45
20	1.4	13.87	52.49	14.54	55.03	15.20	57.53	15.93	60.30	16.64	62.98	17.49	66.20	18.19	68.84	18.82	71.23	19.67	74.45
25	1.7	15.51	58.70	16.25	61.51	17.00	64.34	17.81	67.41	18.61	70.43	19.55	74.00	20.33	79.94	21.05	79.67	21.99	83.23
30	2.1	16.99	64.30	17.80	67.37	18.62	70.47	19.51	73.85	20.38	77.13	21.42	81.07	22.28	84.32	23.05	87.24	24.09	91.18
40	2.8	19.61	74.22	20.56	77.82	21.50	81.37	22.53	85.28	23.54	89.09	24.73	93.60	25.72	97.35	26.62	100.76	27.82	105.29
50	3.4	21.93	83.00	22.98	86.98	24.04	90.99	25.19	95.34	26.31	99.58	27.65	104.66	28.76	108.85	29.76	112.64	31.10	117.71

This flow data was obtained under ideal test conditions and may be adversely affected by poor hydraulic entrance conditions, turbulence or other factors.

Nelson Irrigation makes no representation regarding sprinkler flow rate accuracy under various plumbing and drop pipe conditions.

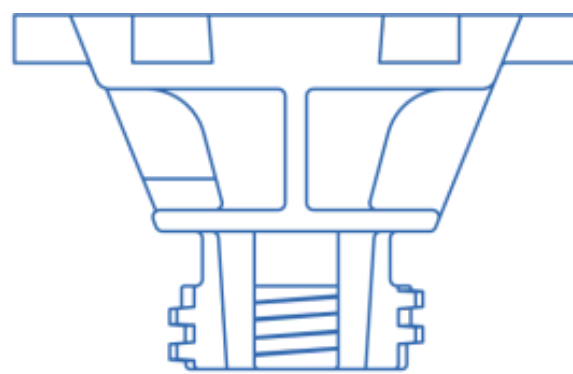
## PERFORMANCE DATA

### PRECISION ACCURACY IN TOUGH FIELD ENVIRONMENTS

THE FUNCTION OF A PRESSURE REGULATOR IN CENTER PIVOT SPRINKLER DESIGN IS TO FIX A VARYING INLET PRESSURE TO A SET OUTLET PRESSURE, REGARDLESS OF CHANGES IN THE SYSTEM PRESSURE DUE TO HYDRAULIC CONDITIONS, ELEVATION CHANGES AND PUMPING SCENARIOS.

THE BENEFITS INCLUDE A UNIFORM DEPTH OF WATER APPLICATION, CONTROLLED SPRINKLER PERFORMANCE (DROPLET SIZE AND THROW DISTANCE), AND FLEXIBILITY IN SYSTEM OPERATION.

### SQUARE THREAD CONNECTION



Integral adapter connects directly into all Nelson 3000 & 3030 Series Sprinklers.

HI-FLO SHOWN WITH 3/4" FNPT X 3/4" FNPT CONNECTION



CHEMICALLY RESISTANT MATERIALS

**ATLANTIS**  
CENTER PIVOT & LINEAR IRRIGATION SYSTEMS

COUNT ON IT

## PERFORMANCE DATA

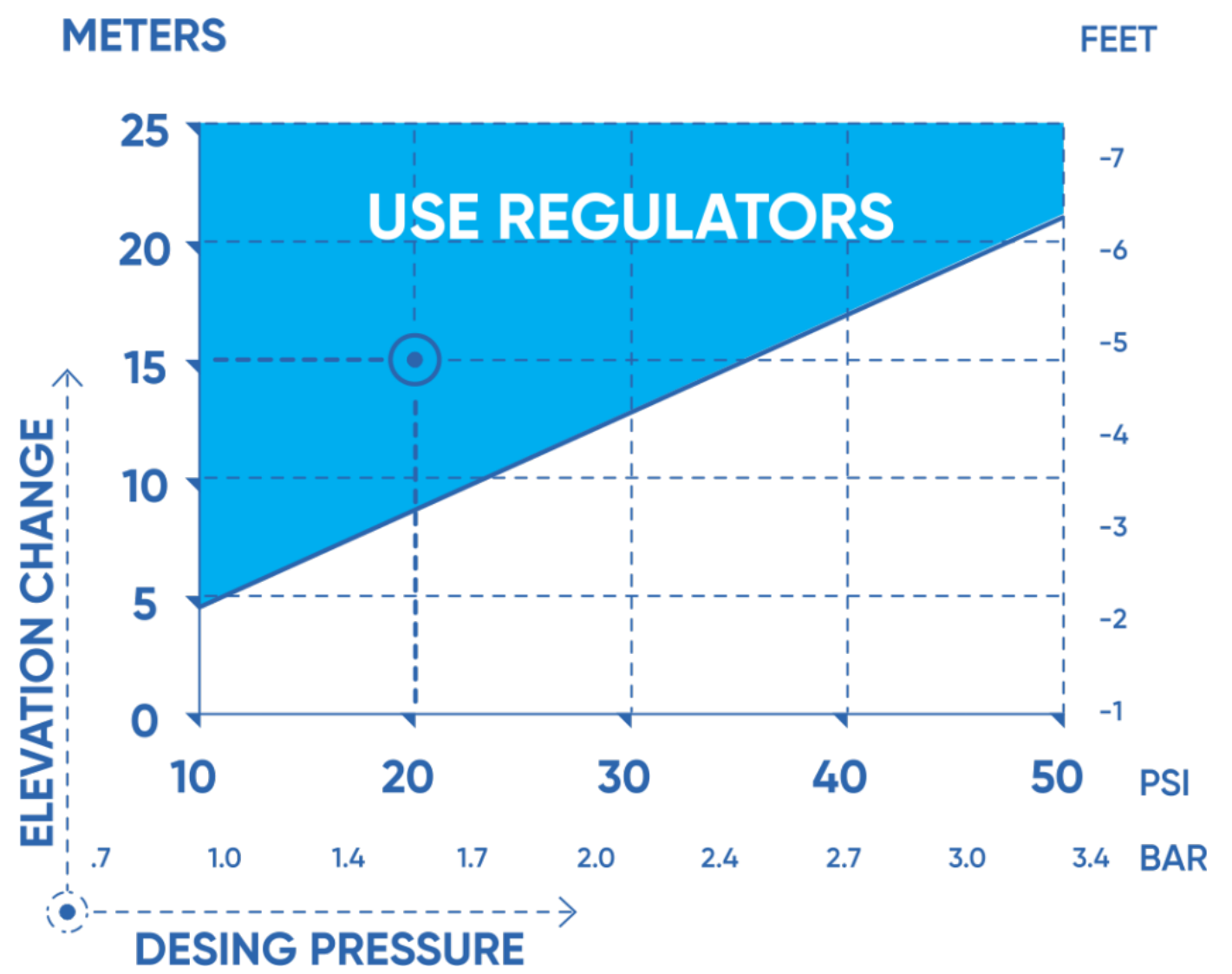


# PRESSURE REGULATORS

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

HOW MUCH ELEVATION CHANGE IS ACCEPTABLE? LESS THAN 10% FLOW VARIATION IS A GOOD RULE OF THUMB

This graph is based on the elevation limit which will cause a flow variation of ten percent or more. If the elevation change from the lowest point is above the line then a flow variation of more than 10 percent will occur. Notice the 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.

## TECHNICAL TIPS FOR REGULATING SYSTEMS

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.

	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)	
	UNI-FLO	HI-FLO	UNI-FLO	HI-FLO	UNI-FLO	HI-FLO	UNI-FLO	HI-FLO	UNI-FLO	HI-FLO	UNI-FLO	HI-FLO	UNI-FLO	HI-FLO	UNI-FLO	HI-FLO
3/4" FNPT X SQUARE THREAD	9572-001	9611-001	9572-002	9611-002	9572-003	9611-003	9572-004	9611-004	9572-005	9611-005	9572-006	9611-006	9572-007	9611-007	9572-008	9611-008
3/4" FNPT X 3/4" FNPT	9491-001	9071-001	9491-002	9071-002	9491-003	9071-003	9491-004	9071-004	9491-005	9071-005	9491-006	9071-006	9491-007	9071-007	9491-008	9071-008

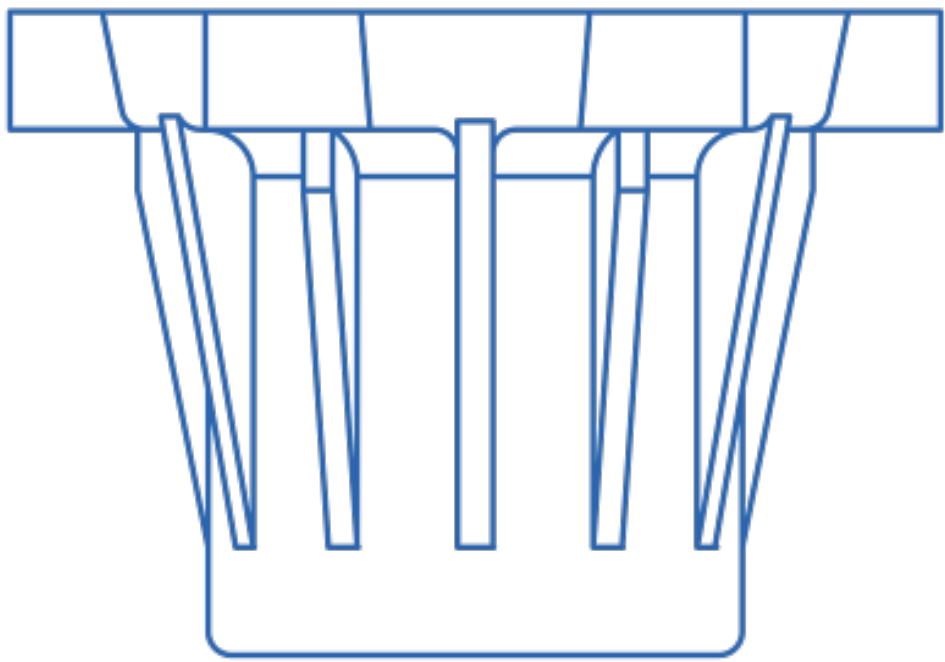
## PATENTED PLUG RESISTANT DESIGN

Superior plug-resistance with a single-strut seat design in both the Hi-Flo and Universal Flo models.

## EXTENDED PERFORMANCE & PRECISION ACCURACY

Precision components coupled with an internally lubricated o-ring minimize frictional drag and hysteresis.

# 3/4" FNPT X FNPT CONNECTION



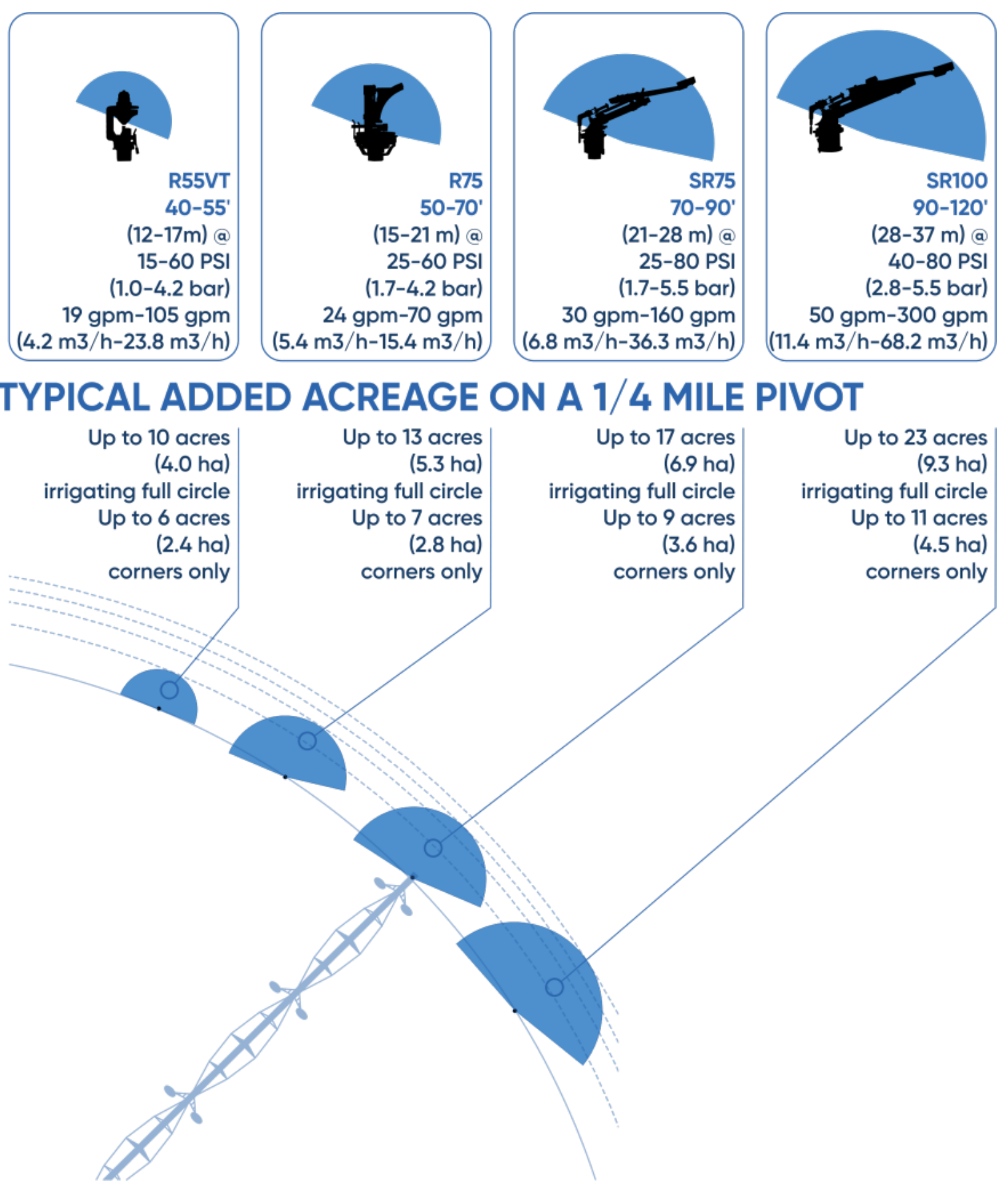
Use 9410 3/4" MNPT adapter



Statement of Expected Performance. Nelson Pressure Regulators are accurate to 6% of the manufacturer's coefficient of variation.

## END OF SYSTEM / SPRINKLER OPTIONS

## END OF PIVOT SPRINKLER OPTIONS FOR SHORT & LONG RADIUS OF THROW



## END OF SYSTEM / SPRINKLER OPTIONS

## ADDITIONAL ACREAGE AT LOW PRESSURE

NO OTHER END OF PIVOT SPRINKLER WORKS IN THE LOW PRESSURE RANGE OF 15-60 PSI (1-4 BAR) AND PROVIDES UP TO 10 ADDITIONAL IRRIGATED ACRES (ON A 1/4 MILE PIVOT).

The R55 VT End of Pivot Sprinkler is changing the way farmers irrigate with center pivots. It can be used to pick up added acreage both throughout the full revolution of the pivot or just in the corners, depending on site specifics and irrigator preferences.

It can be used in conjunction with a higher volume Big Gun® Sprinkler – or on its own. The R55 VT (with blue plate) is to be mounted in an upright position at the end of the overhang.

The New R55i VT, with a specially engineered green plate, has been made for inverted applications. This configuration is found to be easier to plumb - and some say it's effective in helping manage debris that collects at the end of the system. Please note that radius is typically less for the inverted, green plate than for the blue plate.



R55 VT



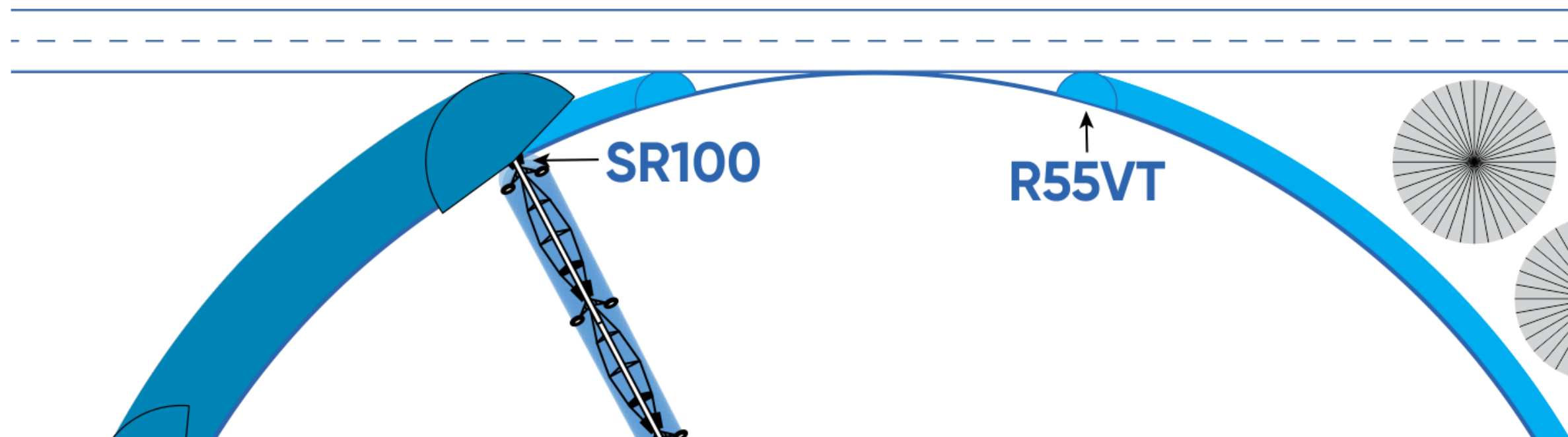
R55i VT





Nelson's R55VT and R75 End of Pivot Sprinklers are now even easier to add to any center pivot system with the End Sprinkler Adapter. Choose from the heavy-duty NPT or BSP threaded options. This adapter eliminates expensive fittings and is very easy to install. (Not to be used with impact sprinklers.)

A SECONDARY END GUN CAN PICK UP EXTRA ACRES BY IRRIGATING WHERE THE SR100 CAN'T – AS THE PIVOT ENTERS/ EXITS THE CORNER, AND AROUND OBSTACLES SUCH AS ROADS AND BUILDINGS.



## END OF SYSTEM / SPRINKLER OPTIONS



### R55 VT

Gain up to 10 acres (4.0 ha) irrigating full circle and up to 6 acres (2.4 ha) corners only on a 1/4 mile pivot.

### R55 VT PERFORMANCE (U.S. UNITS)

Pressure (PSI)	#52 Purple Nozzle		#56 White Nozzle		#60 Red Nozzle		#65 Orange Nozzle		#70 Yellow Nozzle		#80 Green Nozzle		#90 Blue Nozzle	
	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)
15	18.8	40	23.5	40	28.0	40	33.0	40	36.7	40	46.0	40	52.8	41
20	21.6	43	27.0	43	32.1	43	38.0	44	42.2	44	52.9	44	60.6	45
25	24.3	45	30.3	46	36.1	46	42.6	47	47.3	48	59.3	48	68.0	48
30	26.7	46	33.4	47	39.7	47	47.0	48	52.0	49	65.2	49	74.8	50
35	29.0	47	36.2	48	43.1	49	51.0	49	56.5	50	70.8	50	81.1	51
40	31.2	48	38.9	49	46.2	50	54.8	50	60.6	51	75.8	51	87.0	52
45	33.1	48	41.3	50	49.0	51	58.3	51	64.3	52	80.5	53	92.3	54
50	34.9	48	43.4	50	51.6	51	61.4	52	67.7	53	84.7	54	97.2	54
55	36.5	48	45.4	50	54.0	51	64.3	52	70.7	53	88.4	54	101.5	55
60	37.9	48	47.1	50	56.0	51	66.9	52	73.4	53	91.7	54	105.4	56

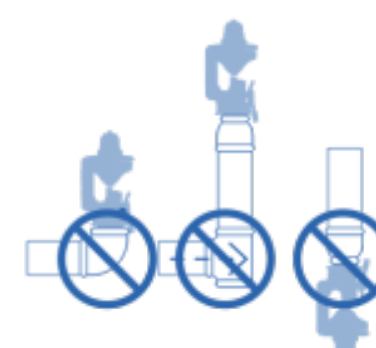
UPRIGHT MOUNTING OPERATING PRESSURE MUST BE 15-60 PSI (1-4 BAR)



### R55 VT PERFORMANCE (METRIC UNITS)

Pressure (PSI)	#52 Purple Nozzle		#56 White Nozzle		#60 Red Nozzle		#65 Orange Nozzle		#70 Yellow Nozzle		#80 Green Nozzle		#90 Blue Nozzle	
	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)
1	4.2	12.2	5.3	12.2	6.3	12.2	7.4	12.2	8.2	12.2	10.3	12.2	11.8	12.5
1.5	5.1	13.3	6.4	13.4	7.6	13.4	9.0	13.7	10.0	13.8	12.5	13.8	14.4	14.0
2	6.0	14.0	7.5	14.3	8.9	14.3	10.5	14.6	11.6	14.9	14.6	14.9	16.7	15.1
2.5	6.7	14.4	8.4	14.7	10.0	15.0	11.8	15.0	13.1	15.3	16.4	15.3	18.8	15.6
3	7.4	14.6	9.2	15.2	11.0	15.5	13.0	15.5	14.4	15.8	18.0	16.0	20.6	16.3
3.5	8.0	14.6	9.9	15.2	11.8	15.5	14.1	15.8	15.5	16.2	19.4	16.5	22.2	16.5
4	8.5	14.6	10.5	15.2	12.5	15.5	15.0	15.8	16.4	16.2	20.5	16.5	23.6	16.9

POOR ENTRANCE CONDITIONS DIMINISH PERFORMANCE.







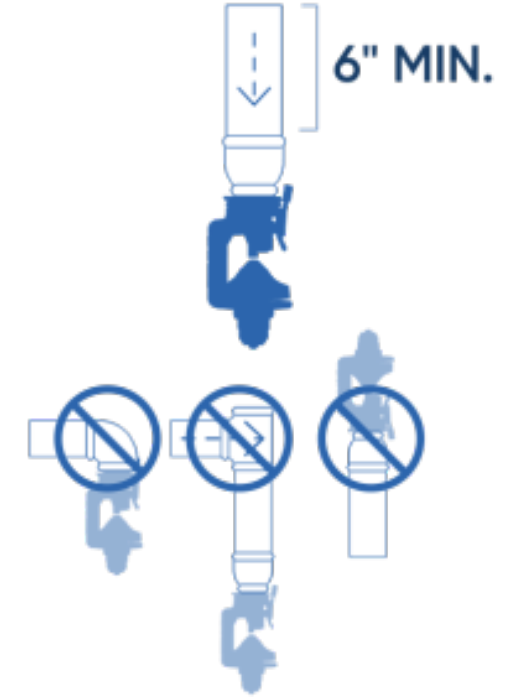
# R55i VT

## R55i VT PERFORMANCE (U.S. UNITS)

Pressure (PSI)	#52 Purple Nozzle		#56 White Nozzle		#60 Red Nozzle		#65 Orange Nozzle		#70 Yellow Nozzle		#80 Green Nozzle	
	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)
15	18.8	38	23.5	38	28.0	37	33.0	37	36.7	36	46.0	35
20	21.6	40	27.0	41	32.1	40	38.0	40	42.2	39	52.9	38
25	24.3	43	30.3	44	36.1	42	42.6	42	47.3	41	59.3	40
30	26.7	44	33.4	45	39.7	44	47.0	44	52.0	43	65.2	42
35	29.0	45	36.2	46	43.1	45	51.0	45	56.5	44	70.8	43
40	31.2	46	38.9	47	46.2	47	54.8	46	60.6	46	75.8	45
45	33.1	47	41.3	48	49.0	48	58.3	47	64.3	47	80.5	46
50	34.9	47	43.4	48	51.6	48	61.4	48	67.7	47	84.7	46
55	36.5	48	45.4	49	54.0	49	64.3	48	70.7	48	88.4	47
60	37.9	49	47.1	49	56.0	49	66.9	48	73.4	48	91.7	47

### INVERTED MOUNTING

OPERATING PRESSURE MUST BE 15-60 PSI (1-4 BAR)



POOR ENTRANCE CONDITIONS DIMINISH PERFORMANCE.

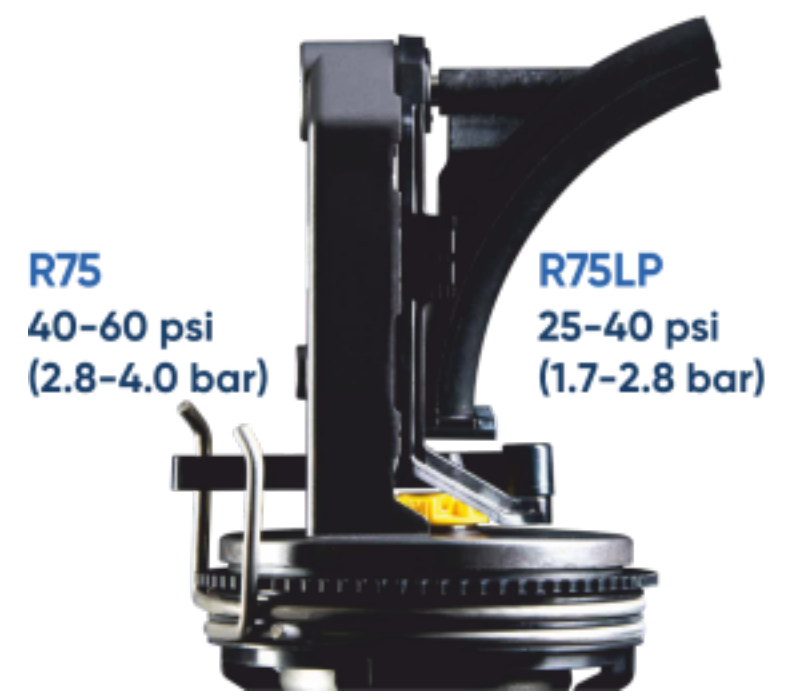
## R55i VT PERFORMANCE (METRIC UNITS)

Pressure (PSI)	#52 Purple Nozzle		#56 White Nozzle		#60 Red Nozzle		#65 Orange Nozzle		#70 Yellow Nozzle		#80 Green Nozzle	
	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)
1	4.2	11.6	5.3	11.6	6.3	11.3	7.4	11.3	8.2	11.0	10.3	10.7
1.5	5.1	12.5	6.4	12.8	7.6	12.4	9.0	12.4	10.0	12.1	12.5	11.8
2	6.0	13.4	7.5	13.7	8.9	13.3	10.5	13.3	11.6	13.0	14.6	12.7
2.5	6.7	13.8	8.4	14.1	10.0	13.9	11.8	13.8	13.1	13.6	16.4	13.3
3	7.4	14.2	9.2	14.5	11.0	14.5	13.0	14.2	14.4	14.2	18.0	13.9
3.5	8.0	14.4	9.9	14.7	11.8	14.7	14.1	14.6	15.5	14.4	19.4	14.1
4	8.5	14.8	10.5	14.9	12.5	14.9	15.0	14.6	16.4	14.6	20.5	14.3

## END OF SYSTEM / SPRINKLER OPTIONS

### ROTATOR® TECHNOLOGY RE-IMAGINED

INTRODUCING THE NEW R75 END OF PIVOT SPRINKLER. 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).



PERFORMANCE DATA													
Pressure (PSI)	#52 (13/32")		#56 (7/16")		#60 (15/32")		#64 (1/2")		#68 (17/32")		#72 (9/16")		
	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	
R75LP	25	23.6	49.0	27.3	51.0	31.2	53.0	35.4	55.0	39.8	55.0	44.4	56.0
	30	26.0	52.0	29.8	53.0	34.1	54.0	38.8	57.0	43.7	57.0	48.8	58.0
	35	28.0	53.0	32.4	55.0	36.9	55.0	42.0	59.0	47.2	59.0	52.6	60.0
	40	30.0	54.0	34.6	56.0	39.7	56.0	44.9	59.0	50.6	60.0	56.4	61.0
R75	40	30.0	57.0	34.6	59.0	39.7	61.0	44.9	65.0	50.6	65.0	56.4	64.0
	45	31.7	58.0	36.8	60.0	42.0	62.0	47.6	66.0	53.7	66.0	59.7	65.0
	50	33.6	59.0	38.8	61.0	44.4	63.0	50.2	67.0	56.5	67.0	63.1	65.0
	55												
	60												

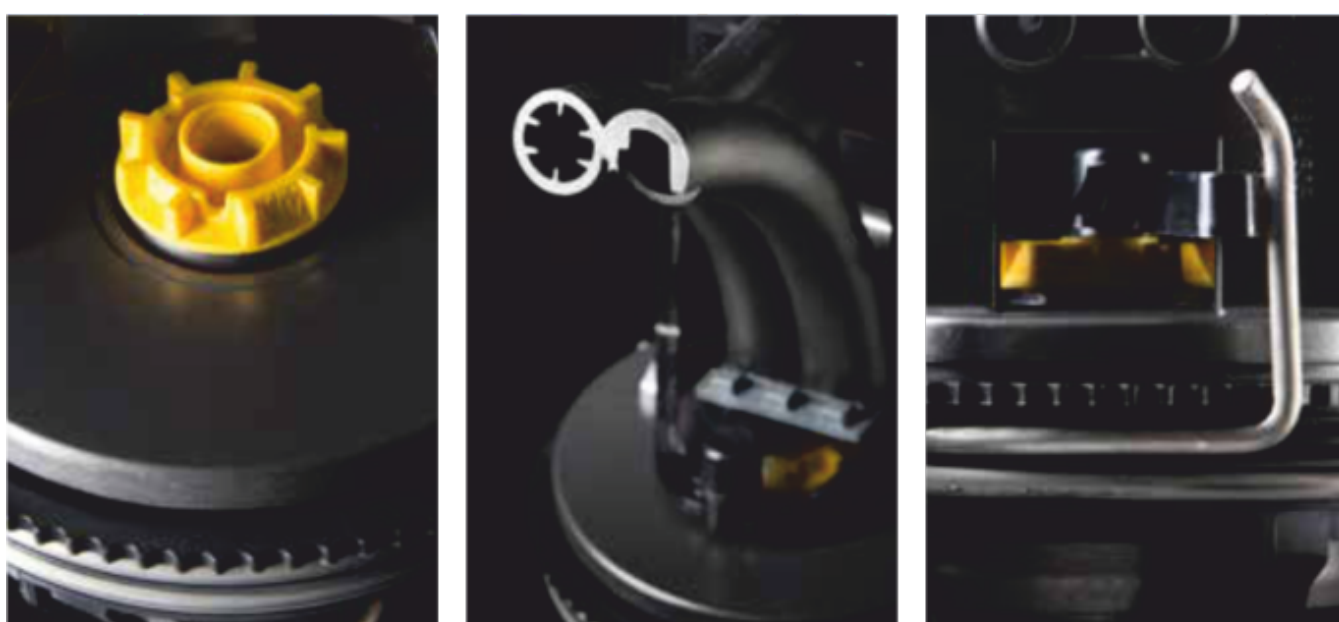
  

METRIC UNITS													
Pressure (BAR)	#52 (13/32")		#56 (7/16")		#60 (15/32")		#64 (1/2")		#68 (17/32")		#72 (9/16")		
	FLOW (m3/h)	RADIUS (m)	FLOW (m3/h)	RADIUS (m)	FLOW (m3/h)	RADIUS (m)	FLOW (m3/h)	RADIUS (m)	FLOW (m3/h)	RADIUS (m)	FLOW (m3/h)	RADIUS (m)	
R75LP	1.75	5.4	14.9	6.3	15.5	7.1	16.2	8.1	16.8	9.2	16.8	10.2	17.1
	2.00	5.8	15.5	6.7	16.2	7.6	16.5	8.7	17.4	9.8	17.4	10.9	17.7
	2.50	6.4	16.5	7.5	16.8	8.5	16.8	9.7	18.0	10.9	18.0	12.1	18.3
	2.75	6.8	16.5	7.8	17.1	9.0	17.1	10.2	18.0	11.5	18.3	12.7	18.6
R75	2.75	6.8	17.4	7.8	18.0	9.0	18.6	10.2	19.8	11.5	19.8	12.7	19.5
	3.00	7.1	17.7	8.2	18.3	9.4	18.9	10.6	20.1	12.0	20.1	13.3	19.8
	3.50	7.7	18.0	8.9	18.6	10.2	19.2	11.5	20.4	13.0	20.4	14.4	19.8
	4.00	8.2	18.0	9.5	18.9	10.9	19.8	12.3	21.0	13.9	20.7	15.4	20.4



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

R75/R75LP performance data has been obtained under ideal test conditions and may be adversely affected by wind, poor hydraulic entrance conditions or other factors. Test riser height of 9 feet (2.7 meters) above measurement surface. No representation regarding droplet condition, uniformity, application rate, or suitability for a particular application is made herein.

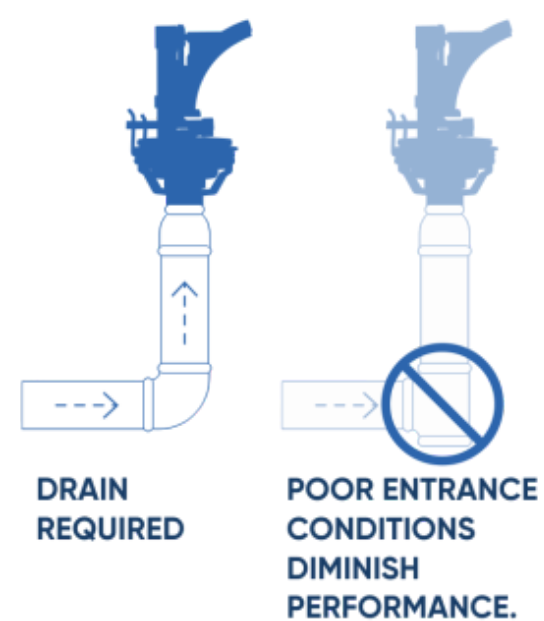


EASY TO ACCESS NOZZLE.

DUAL BARREL SPRAY PLATE FOR DISTANCE & UNIFORMITY.

ADJUSTABLE STOPS TO ACHIEVE BEST ARC OF COVERAGE.

### REQUIRED PLUMBING

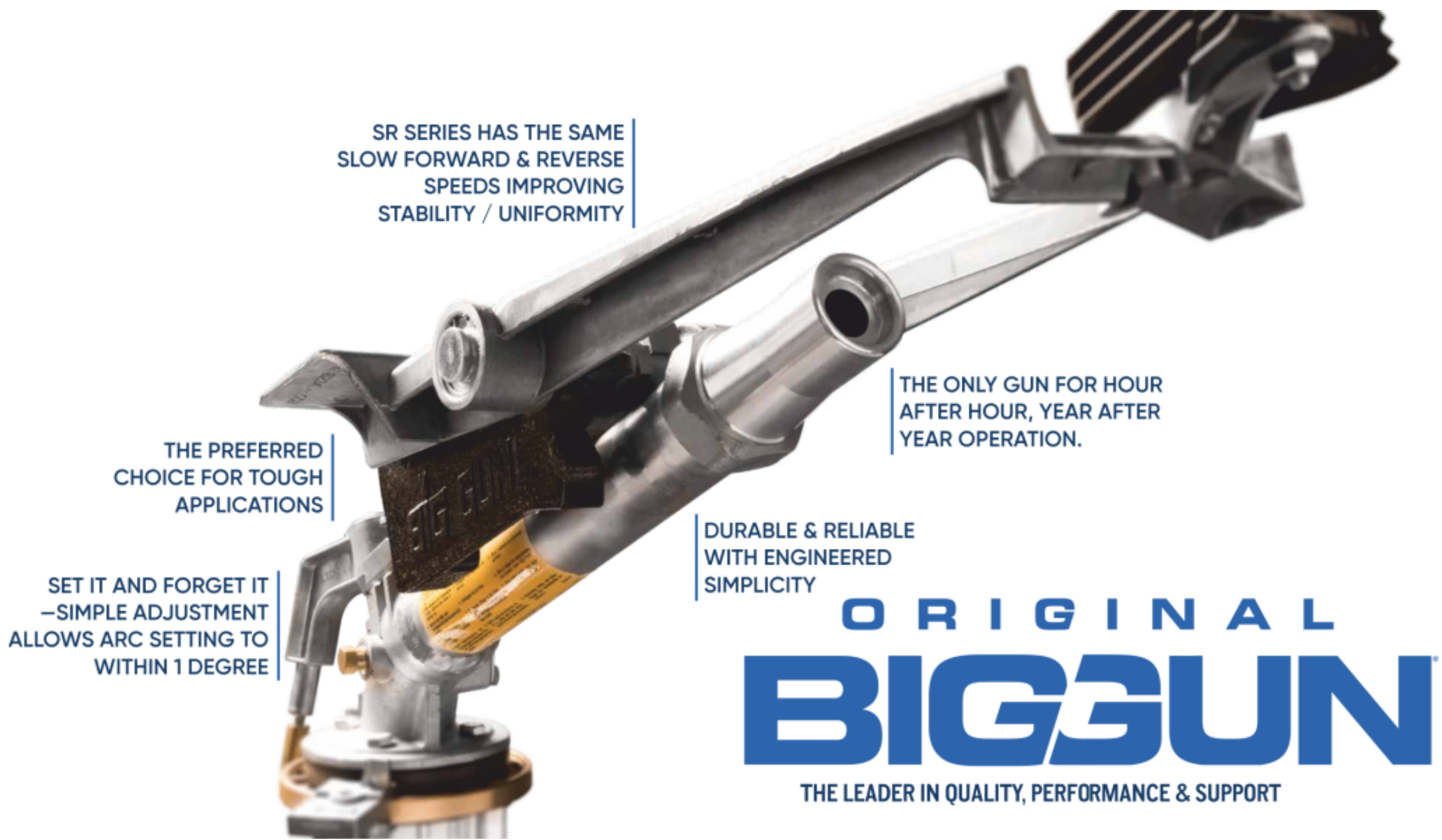


DRAIN REQUIRED

POOR ENTRANCE CONDITIONS DIMINISH PERFORMANCE.

# END OF SYSTEM / SPRINKLER OPTIONS

STILL AROUND FOR A REASON



## SR75

30 GPM-160 GPM (6.8 M3/H-36.3 M3/H)



WITH PROVEN DEPENDABILITY, PERFORMANCE, LONG WEAR LIFE AND REPAIRABILITY KNOWN FROM BIG GUN® SPRINKLERS, THE 18 DEGREE SR75 IS AN AFFORDABLE BIG GUN OPTION THAT PERFORMS WELL AT LOW PRESSURES.

## SR100

50 GPM-300 GPM (11.4 M3/H-68.2 M3/H)



THE SR100 BIG GUN WITH AN 18 DEGREE TRAJECTORY IS THE MOST POPULAR PIVOT END GUN USED ON CENTER PIVOTS TODAY. A BIG GUN® SPRINKLER (OPERATING THROUGH A COMPLETE ROTATION) ON A QUARTER-SECTION PIVOT CAN EFFECTIVELY IRRIGATE UP TO 20 ADDITIONAL ACRES (8.1 HA). CONSIDERING THE COST EFFECTIVENESS OF PUTTING THIS ADDITIONAL LAND INTO PRODUCTION, AN END GUN OPTION SHOULDN'T BE OVERLOOKED.

**ATLANTIS**  
CENTER PIVOT & LINEAR IRRIGATION SYSTEMS

COUNT ON IT



Gain up to 23 acres (9.3 ha) irrigating full circle and up to 11 acres (4.5 ha) corners only on a 1/4 mile pivot.

## PERFORMANCE DATA (US UNITS) 75 TAPER RING NOZZLE – 24° TRAJECTORY

Pressure (psi)	0.4"		0.45"		0.5"		0.55"		0.6"		0.65"		0.7"		0.75"		0.8"	
	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)
25	-	-	-	-	-	-	42	73	50	78	59	81	69	84	80	87	91	91
30	-	-	-	-	37	79	45	79	55	83	64	86	75	91	87	94	99	96
35	-	-	32	77	40	82	49	86	59	89	69	96	81	98	93	101	106	104
40	27	75	35	80	43	86	52	90	63	95	74	99	87	102	98	107	112	111
50	30	81	39	87	48	93	59	98	70	102	83	106	95	110	109	115	123	119
60	33	85	42	92	53	99	64	104	77	110	91	114	104	119	120	123	136	127
70	36	88	45	97	57	105	69	111	83	116	98	122	113	127	129	130	147	135
80	39	91	49	104	61	111	74	117	89	122	105	128	121	133	138	137	158	142

## 100 TAPER BORE NOZZLE – 24° TRAJECTORY

Pressure (psi)	0.5"		0.55"		0.6"		0.65"		0.7"		0.75"		0.8"		0.85"		0.9"		1.0"	
	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)
40	47	96	57	101	66	107	78	111	91	115	103	120	118	125	134	128	152	131	-	-
50	50	103	64	108	74	113	87	118	100	123	115	128	130	133	150	137	165	140	204	150
60	55	108	69	114	81	120	96	125	110	130	126	135	143	140	164	144	182	148	224	158
70	60	113	75	119	88	125	103	132	120	138	136	142	155	148	177	151	197	155	243	169
80	64	118	79	124	94	130	110	137	128	143	146	148	165	153	189	157	210	163	258	177
90	68	123	83	129	100	135	117	142	135	148	155	153	175	158	201	163	223	168	274	181
100	72	128	87	134	106	140	123	147	143	153	163	158	185	163	212	168	235	173	289	186
110	76	133	92	139	111	145	129	152	150	158	171	162	195	168	222	172	247	178	304	190

## PERFORMANCE DATA (METRIC UNITS) 75 TAPER RING NOZZLE – 24° TRAJECTORY

Pressure (psi)	10.2 mm			11.4 mm			12.7 mm			14.0 mm			15.2 mm			16.5 mm			17.8 mm			19.1 mm			20.3 mm		
	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)
1.75	-	-	-	-	-	-	-	-	-	2.64	9.5	22.5	3.18	11.5	24.0	3.73	13.4	25.0	4.37	15.7	26.0	5.04	18.2	27.0	5.73	20.6	28.0
2	-	-	-	-	-	-	2.30	8.3	23.5	2.82	10.2	24.0	3.40	12.2	25.5	3.99	14.4	26.0	4.66	16.8	27.0	5.37	19.3	28.5	6.10	22.0	29.5
2.5	-	-	-	2.09	7.5	24.0	2.58	9.3	25.5	3.15	11.4	26.0	3.79	13.7	27.5	4.46	16.0	28.5	5.19	18.7	29.5	5.97	21.5	31.0	6.78	24.4	32.0
3	1.78	6.4	23.5	2.28	8.2	25.0	2.83	10.2	27.0	3.45	12.4	28.0	4.15	14.9	29.5	4.88	17.6	31.0	5.66	20.4	32.0	6.50	23.4	33.0	7.39	26.6	34.5
3.5	1.93	6.9	24.5	2.46	8.9	26.5	3.06	11.0	28.5	3.73	13.4	30.0	4.48	16.1	31.5	5.27	19.0	33.0	6.10	22.0	34.0	6.99	25.2	35.5	7.95	28.6	36.5
4	2.07	7.4	25.5	2.63	9.5	28.0	3.27	11.8	30.0	3.99	14.3	31.5	4.78	17.2	33.0	5.64	20.3	34.5	6.50	23.4	36.0	7.45	26.8	37.0	8.47	30.5	38.5
4.5	2.19	7.9	26.5	2.78	10.0	29.0	3.47	12.5	31.5	4.23	15.2	33.0	5.06	18.2	34.5	5.98	21.5	36.5	6.88	24.8	37.5	7.87	28.3	39.0	8.96	32.2	40.5
5	2.32	8.3	27.0	2.93	10.5	30.5	3.66	13.2	32.5	4.45	16.0	34.5	5.33	19.2	36.0	6.30	22.7	37.5	7.24	26.1	39.0	8.27	29.8	40.5	9.41	33.9	42.0
5.5	2.43	8.8	27.5	3.07	11.0	31.5	3.85	13.8	34.0	4.67	16.8	35.0	5.59	20.1	37.0	6.61	23.8	38.5	7.58	27.3	40.5	8.65	31.2	41.5	9.85	35.5	43.0
6	2.55	9.2	28.0	3.20	11.5	32.5	4.02	14.5	35.0	4.88	17.6	36.0	5.84	21.0	38.0	6.90	24.8	39.5	7.90	28.4	41.5	9.02	32.5	42.5	10.26	36.9	44.0

## 100 TAPER BORE NOZZLE – 24° TRAJECTORY

Pressure (psi)	12.7 mm			14.0 mm			15.2 mm			16.5 mm			17.8 mm			19.1 mm			20.3 mm			21.6 mm			22.9 mm			25.4 mm		
	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)	L/S	M <sup>3</sup> /HR	RAD. (M)
2.75	2.88	10.4	29.5	3.61	13.0	31.0	4.15	14.9	32.5	4.92	17.7	34.0	5.69	20.5	35.0	6.48	23.3	36.5	7.38	26.6	38.0	8.44	30.4	39.0	9.45	34.0	40.0	-	-	-
3	3.01	10.8	30.0	3.76	13.5	31.5	4.34	15.6	33.5	5.13	18.5	34.5	5.94	21.4	36.0	6.77	24.4	37.5	7.70	27.7	39.0	8.82	31.7	40.0	9.86	35.5	41.0	12.02	43.3	43.0
3.5	3.24	11.7	31.5	4.04	14.5	33.0	4.70	16.9	34.5	5.54	20.0	36.0	6.42	23.1	37.5	7.32	26.3	39.0	8.32	30.0	40.5	9.52	34.3	42.0	10.63	38.3	42.5	12.99	46.8	45.5
4	3.46	12.5	32.5	4.30	15.5	34.5	5.04	18.1	36.0	5.92	21.3	37.5	6.86	24.7	39.0	7.82	28.2	40.5	8.89	32.0	42.0	10.18	36.6	43.5	11.35	40.8	44.5	13.89	50.0	48.0
4.5	3.67	13.2	34.0	4.54	16.3	35.5	5.35	19.3	37.0	6.28	22.6	39.0	7.28	26.2	41.0	8.30	29.9	42.5	9.43	34.0	44.0	10.79	38.9	45.0	12.02	43.3	46.0	14.73	53.0	50.0
5	3.86	13.9	35.0	4.76	17.2	37.0	5.65	20.3	38.5	6.62	23.8	40.5	7.67	27.6	42.0	8.75	31.5	43.5	9.94	35.8	45.0	11.38	41.0	46.5	12.65	45.5	47.5	15.53	55.9	52.0
5.5	4.05	14.6	36.0	4.98	17.9	38.0	5.93	21.4	39.5	6.94	25.0	42.0	8.05	29.0	43.5	9.18	33.1	45.0	10.42	37.5	46.5	11.93	43.0	48.0	13.26	47.7	49.0	16.30	58.7	53.5
6	4.22	15.2	37.0	5.18	18.7	39.0	6.21	22.3	40.5	7.25	26.1	43.0	8.40	30.3	44.5	9.59	34.5	46.0	10.89	39.2	47.5	12.46	44.9	49.0	13.83	49.8	50.5	17.02	61.3	55.0
6.5	4.39	15.8	38.0	5.38	19.4	40.0	6.47	23.3	41.5	7.54	27.2	44.0	8.75	31.5	46.0	9.99	36.0	47.5	11.33	40.8	49.0	12.97	46.7	50.5	14.38	51.8	52.0	17.72	63.8	56.0
7	4.56	16.4	39.0	5.57	20.0	41.5	6.72	24.2	43.0	7.83	28.2	45.5	9.08	32.7	47.0	10.37	37.3	48.5	11.76	42.3	50.0	13.46	48.4	51.5	14.91	53.7	53.0	18.39	66.2	57.0
7.5	4.71	17.0	40.5	5.75	20.7	42.5	6.96	25.1	43.5	8.10	29.2	46.5	9.40	33.8	47.5	10.73	38.6	49.0	12.17	43.8	50.5	13.93	50.1	52.0	15.43	55.5	54.0	19.04	68.5	57.5

Diameters are based on a 24° trajectory for the 75 and 100 Series. The lower trajectory angles result in better wind fighting ability, but reduced throw distances. Throw reduction depends upon nozzle flow rate. In general, the throw distance is reduced approximately 3% with each 3° drop in trajectory angle. Big Gun® performance data has been obtained under ideal test conditions and may be adversely affected by wind, poor hydraulic entrance conditions or other factors. Test riser height of 3 feet (0.91 meters) above measurement surface. No representation regarding droplet condition, uniformity, application rate, or suitability for a particular application is made herein. Additional nozzle options and sizes available.