



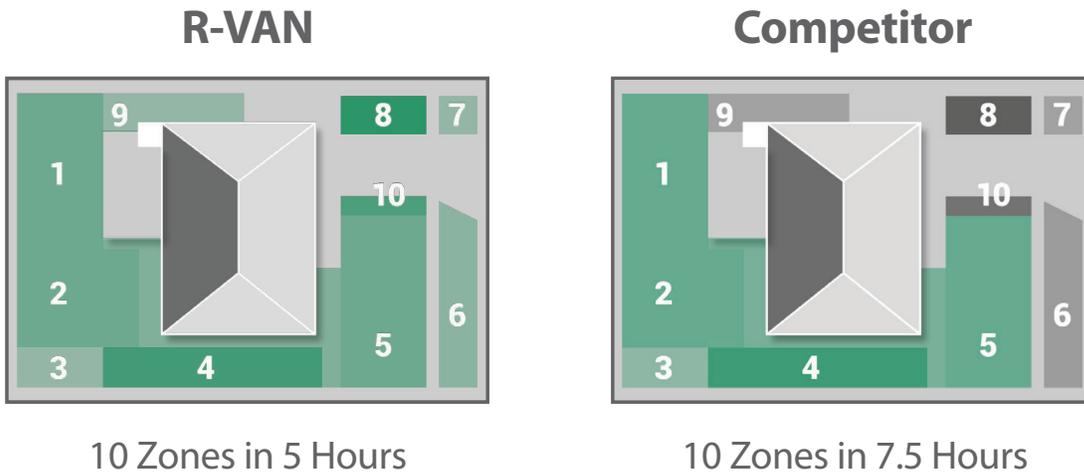
## Rain Bird R-VAN Rotary Nozzles Land F/X Design Guide



The Intelligent Use of Water.™

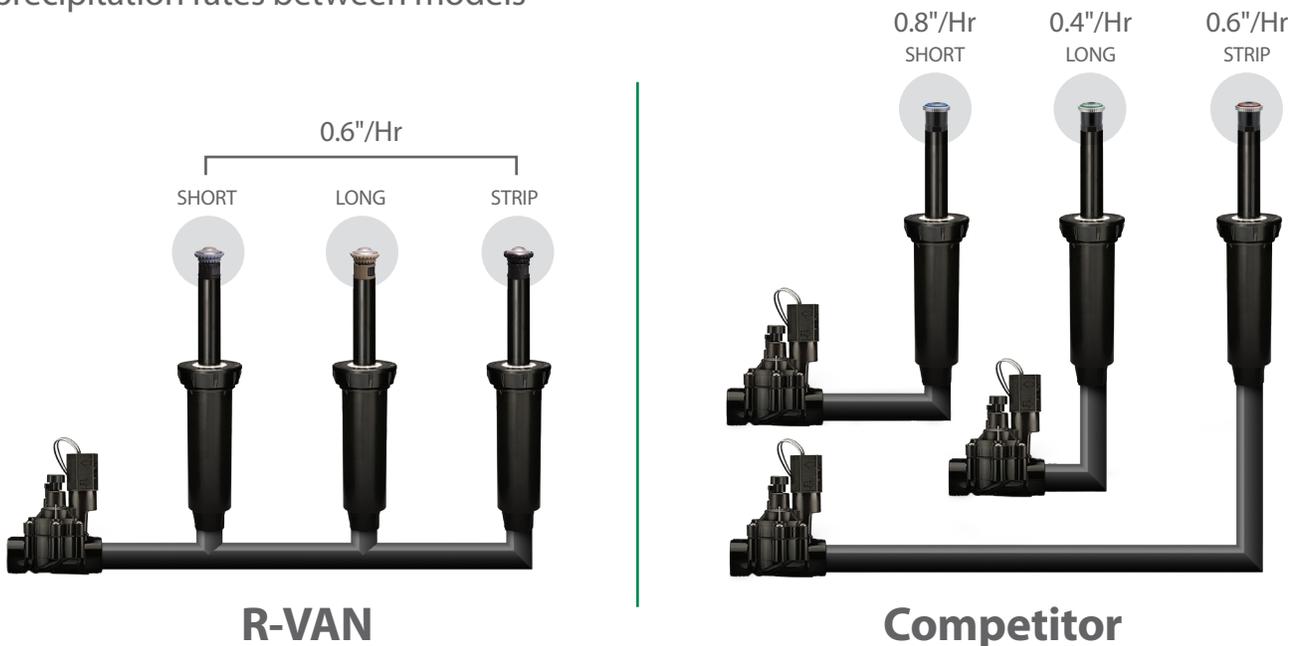
## 33% Shorter Run-Times

R-VAN is ideal for time restricted irrigation applications



## Matched Precipitation Rate Short Throw & Strips

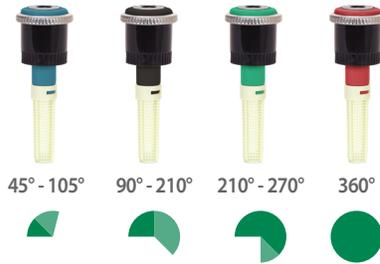
All R-VAN nozzles can be installed on the same zone due to matched precipitation rates between models



### R-VAN



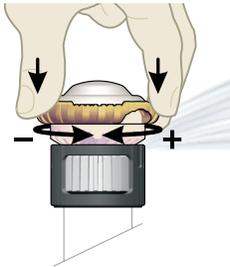
### Competitor



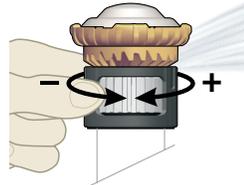
## Design Quickly and Reduce Complexity

- ▶ R-VAN requires half the models to cover 45° to 360°
- ▶ Fewer nozzles needed to cover any area, reducing complexity in design
- ▶ Lower precipitation rates reduce wasteful runoff and costly erosion

### Arc Adjust

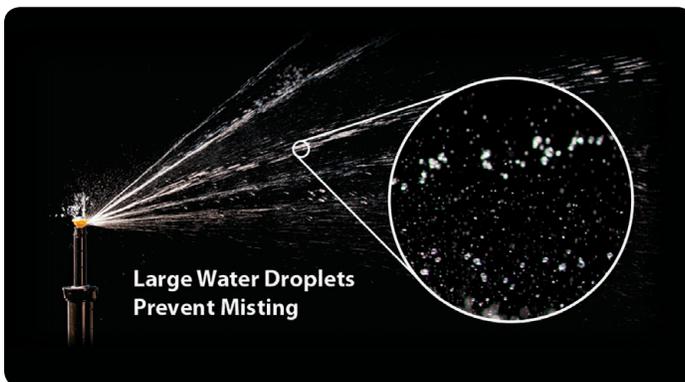


### Radius Adjust



## R-VAN is Hand Adjustable

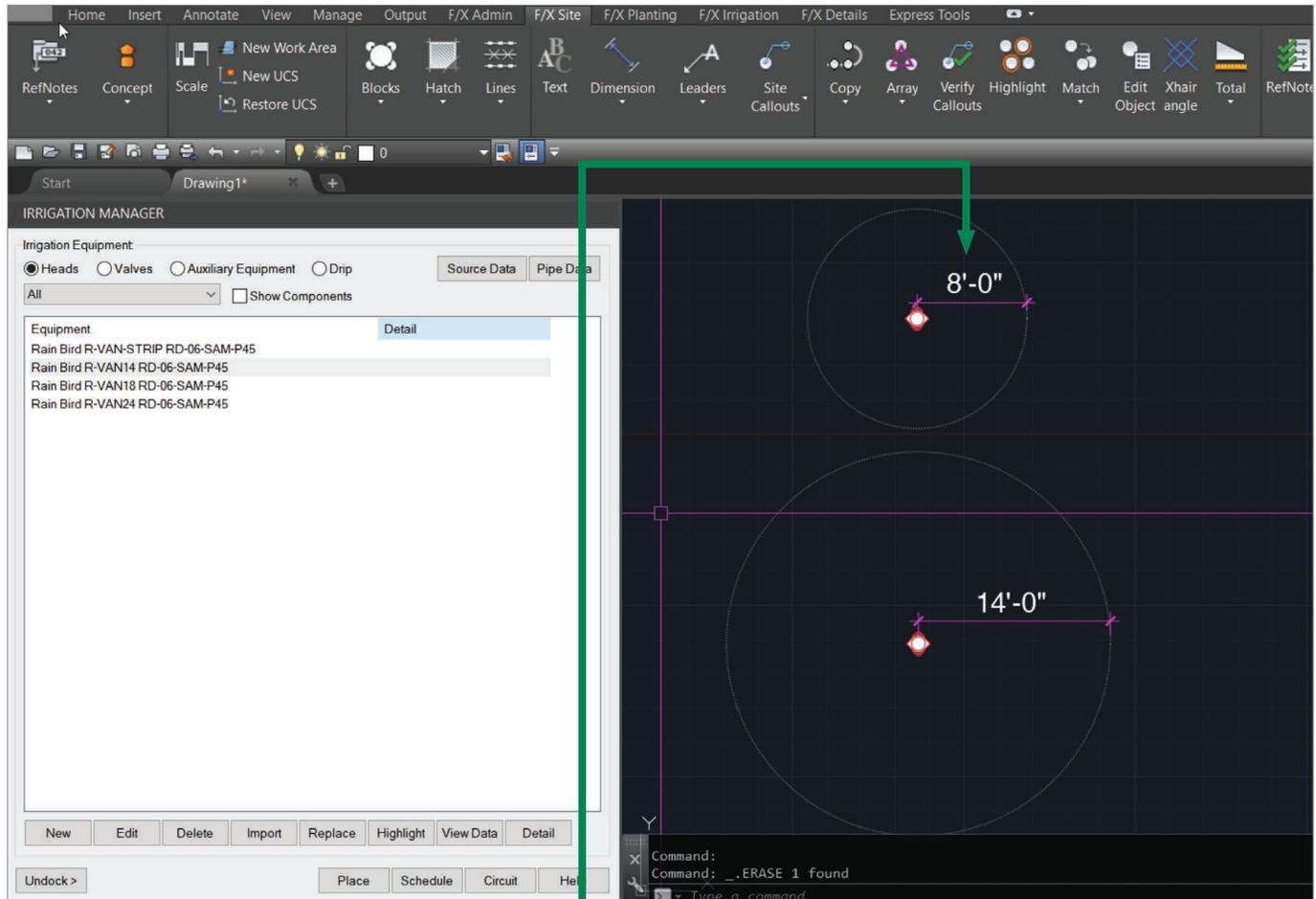
- ▶ No tools required for adjustment
- ▶ Adjust both arc and radius by hand
- ▶ Easy debris flushing. Clogs are easily cleared and the nozzle does not need to be replaced



## Improving Watering Efficiencies Up to 30%

- ▶ Gentle, rotating streams create uniform coverage at lower precipitation rates
- ▶ Multi-stream technology optimizes absorption for healthier lawns
- ▶ Larger droplets and thicker streams cut through wind and keep water in target zone

## Full Radius & Full Arc Adjustment Capability NEW

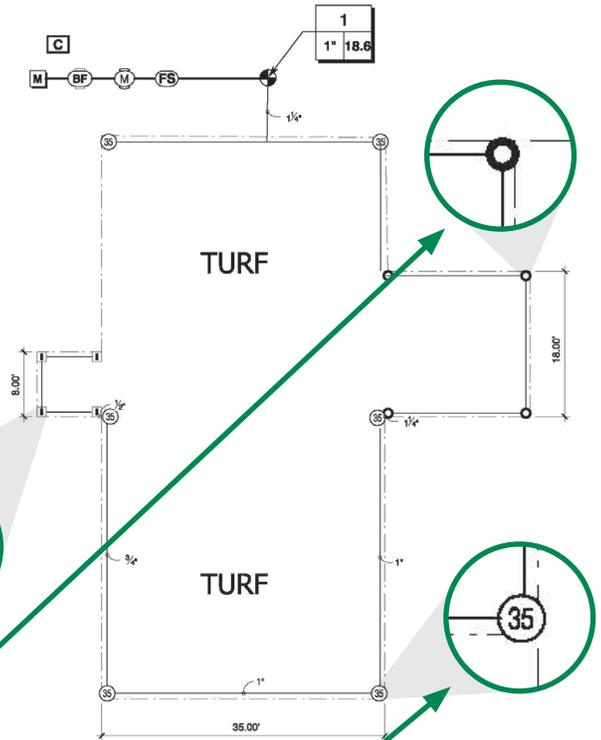


### R-VAN Now Goes Down to 8 Feet!

- ▶ Place R-VAN in Land F/X and have full radius control for all models from 8 to 24 feet
- ▶ Previously only 25% radius reduction was allowed in Land F/X
- ▶ With just one click, place R-VAN in your design and have full arc adjustment from 0 to 360 degrees

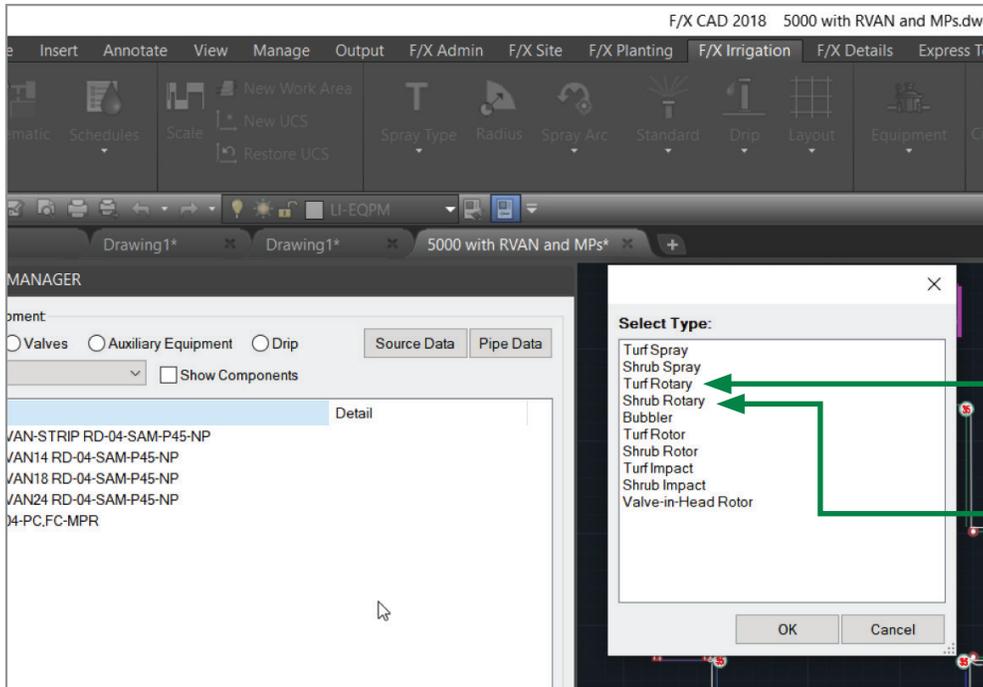
## Extended Radius Capability

- ▶ Increase radius capabilities of R-VAN up to 35 feet with 5000 MPR nozzles
- ▶ Matched precip rate of 0.6" per hour with 25, 30 and 35 foot MPR nozzle options
- ▶ Rotors and rotary nozzles can now be on the same zone with true matched precipitation rate from 8'-35' & 0-360 degrees.



IRRIGATION SCHEDULE				
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	
 	Rain Bird R-VAN14 RD-04-SAM-P45-NP Turf Rotary, 8' -14' 45-270 degrees and 360 degrees Hand Adjustable Multi-Stream Rotary w/RD1800 turf spray body on 4.0" pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet. With Non-Potable Purple Cap.	4	45	
 	Rain Bird R-VAN18 RD-04-SAM-P45-NP Turf Rotary, 13' -18' 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/RD1800 turf spray body on 4.0" pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet. W/ Non-Potable Purple Cap.	4	45	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	
	Rain Bird 5004-PC,FC-MPR Turf Rotor, 4.0" Pop-Up, Plastic Riser, Matched Precipitation Rotor (MPR nozzle). Arc and Radius as per Symbol. 25 ft=red, 30 ft=green, 35ft=beige.	6	45	

## Step 1 Select Rotary Application



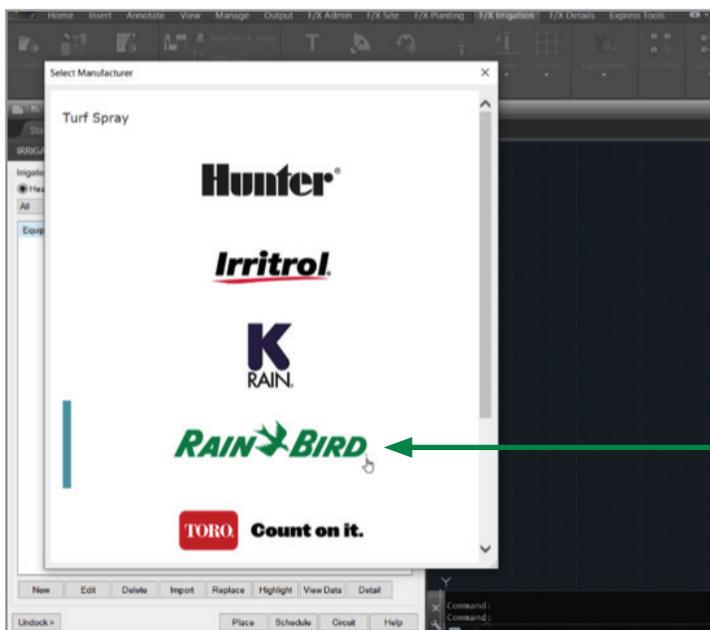
In Irrigation Manager,  
Select either:

**Turf Rotary**  
(4" & 6" Pop-up)

or

**Shrub Rotary**  
(Shrub Adapter, 6" &  
12" Pop-up)

## Step 2 Select Manufacturer



Select Rain Bird

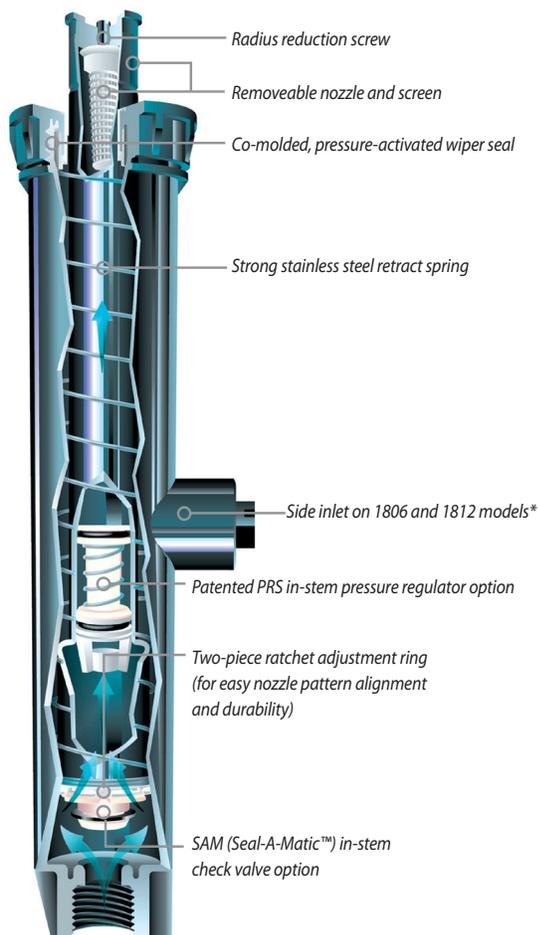
## Step 3a Select Appropriate Sprinkler Head

Select Either:

- ▶ Flexibility: 1800 Series Rotary
- ▶ Performance: RD1800 Series Rotary

### 1800™ Series

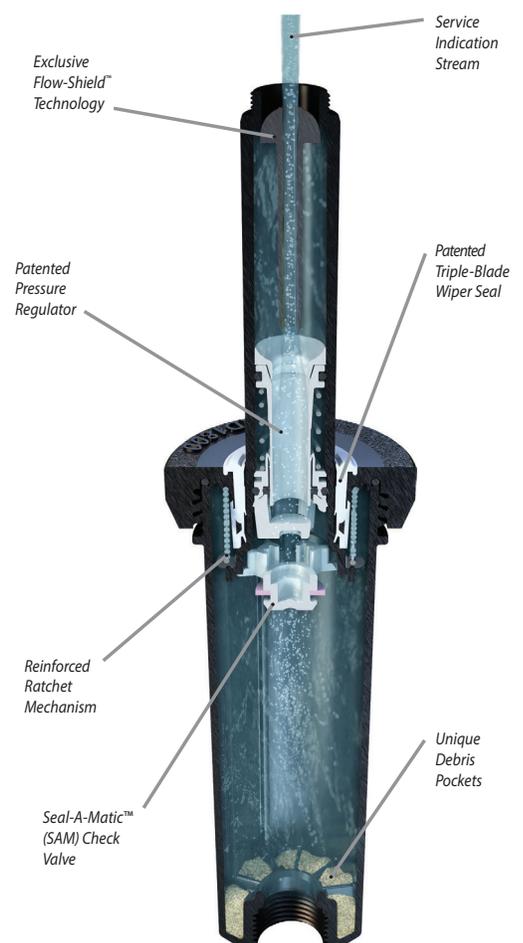
The #1 Irrigation Spray Head in the World



The 1800 Series offers a broad selection of pop up heights and nozzle combinations for watering shrubs, small lawns, and irregularly shaped planting areas

### RD1800 Series

Robust Design for Harsh Applications



Built to withstand harsh operating conditions such as chemically treated recycled water (reclaimed / nonpotable), dirty water containing grit, debris, and other particulates, and high operating pressures common in commercial irrigation systems

## Step 3b Select Appropriate Sprinkler Head



### Full-Line Multi-Stream Rotary Nozzles (R-VAN):

- ▶ 8' - 14', 13' - 18' and 17' - 24' with Adjustable Arc 45° -270°
- ▶ 8' - 14', 13' - 18' and 17' - 24' with Full Circle Pattern 360°
- ▶ 5' x 15' Left and Right Corner Strips
- ▶ 5' x 30' Side Strip



### 1800-Series Rotary

Rain Bird's 1800 Series is the #1 commercial-grade irrigation spray head brand in the world.

- ▶ Shrub, 4", 6", 12" pop- up height with ½" NPT female threaded inlet
- ▶ Optional Seal-A- Matic (SAM) Check Valve
- ▶ Optional Pressure Regulating Stem (PRS) at 45 psi ▶
- Optional non potable (NP) purple cap
- ▶ SAM recommended in sandy soil
- ▶ 6" & 12" feature side and bottom Inlets in non-SAM models

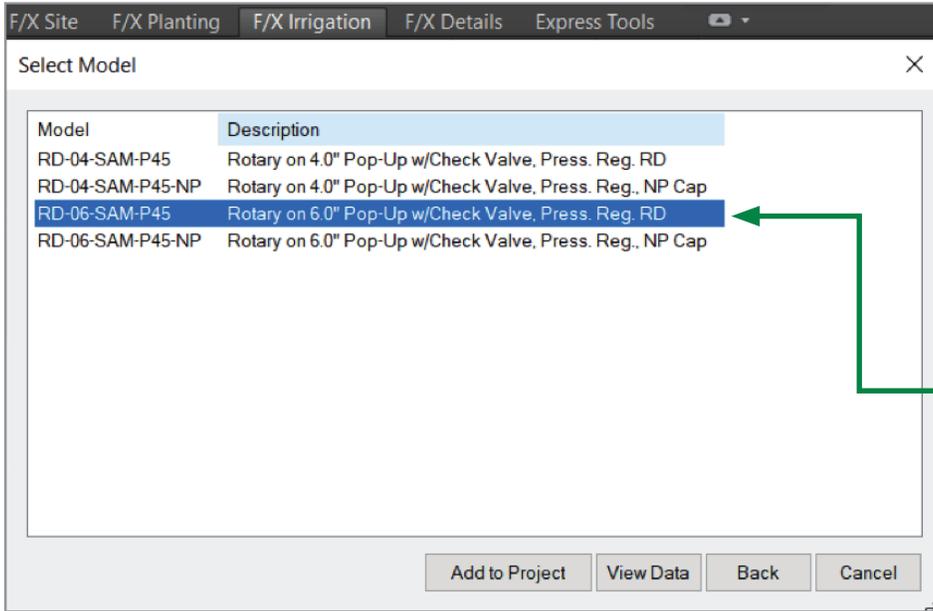


### RD1800-Series Rotary

RD1800 Series Spray Heads: Rugged and durable. Chemical Resistant. For Potable and Recycled/Reclaimed/Dirty Water.

- ▶ 4", 6" or 12" pop- up height with ½" NPT female threaded inlet
- ▶ Standard Seal-A- Matic (SAM) Check Valve
- ▶ Standard Pressure Regulating Stem (PRS) at 45 psi
- ▶ Available in non potable (NP) purple, or potable white cap
- ▶ SAM recommended in sandy soil

## Step 4 Select Model and Pop-Up Height



Select Appropriate Model, Features, and Pop-Up Height

### How to Specify

#### RD-XX - X - Nozzle

Nozzle  
See R-VAN, U-Series, MPR, VAN, HE-VAN and SQ Nozzle specifications for more information

#### Optional Features

S: Seal-A-Matic™ check valve  
P30: 30 psi (2.1 bar) in-stem pressure regulation  
P45: 45 psi (3.1 bar) in-stem pressure regulation  
F: Flow-Shield™ Technology  
NP: Non-potable water use indicating cover

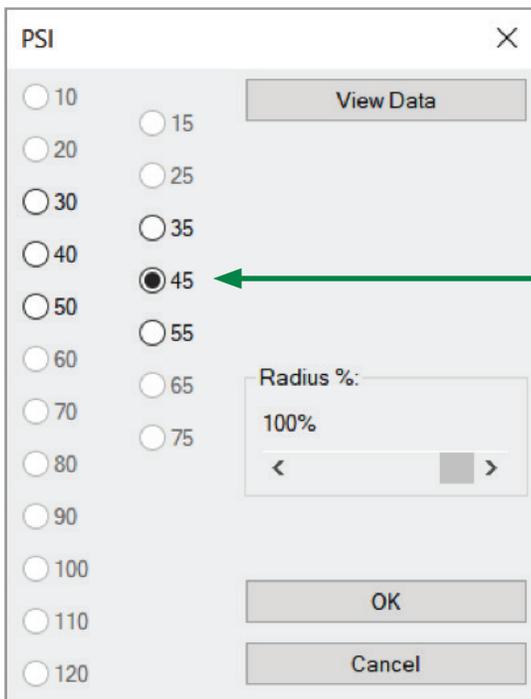
#### Model

RD-04: 4" (10 cm) pop-up height  
RD-06: 6" (15 cm) pop-up height  
RD-12: 12" (30.5 cm) pop-up height

#### Notes:

Specify sprinkler bodies and nozzles separately.

## Step 5 Select Design Pressure

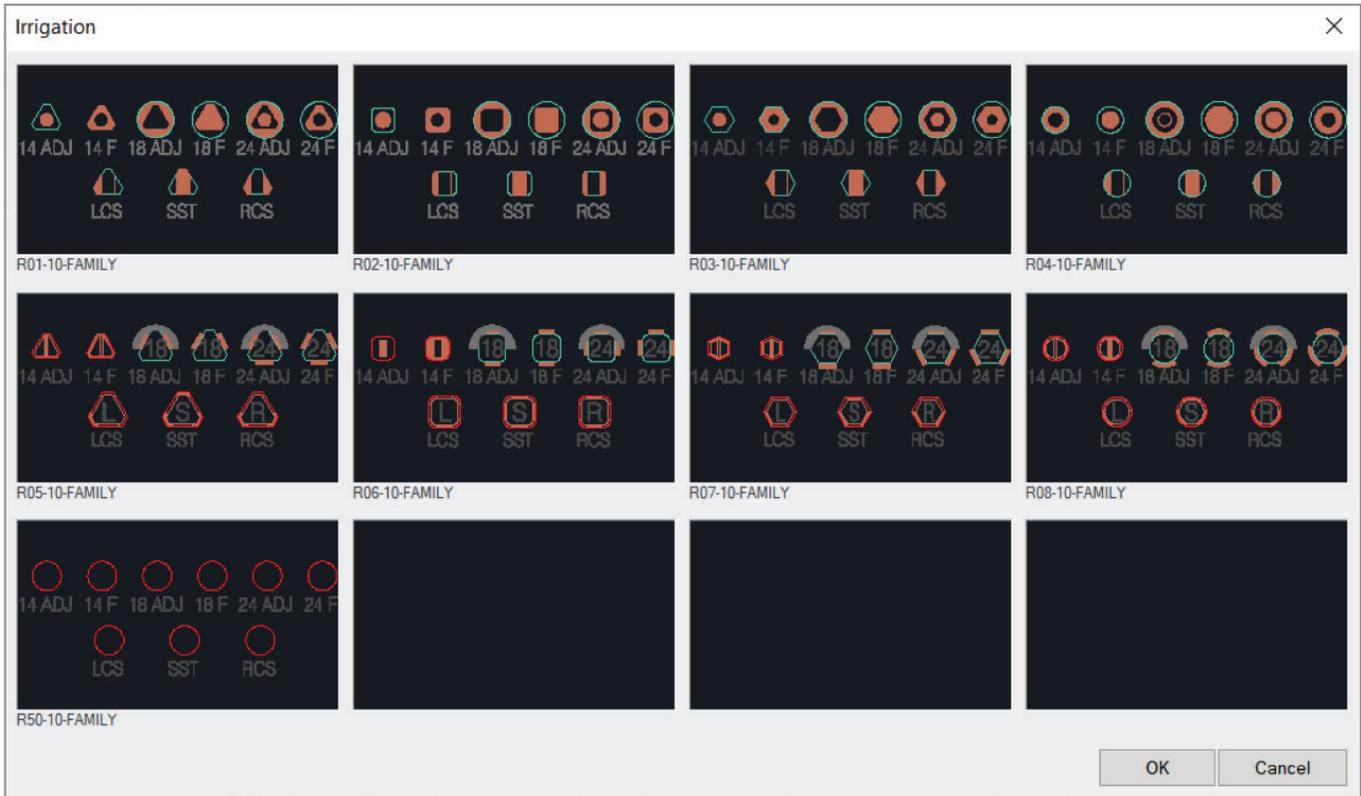


Select Appropriate Design Pressure

- ▶ 45 PSI Recommended for R-VAN
- ▶ Ensures consistent and optimal pressure across all heads



## Step 6 Select Your R-VAN Symbol of Choice



### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	DETAIL
	Rain Bird R-VAN-STRIP RD-04-SAM-P45 Turf Rotary, 5' x15' (LCS and RCS), 5' x30' (SST) Hand Adjustable Multi-Stream Rotary w/ RD1800 turf spray body on 4.0' pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet.	3	45	
	Rain Bird R-VAN14 RD-04-SAM-P45 Turf Rotary, 8' -14' 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/RD1800 turf spray body on 4.0' pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet.	7	45	
	Rain Bird R-VAN18 RD-04-SAM-P45 Turf Rotary, 13' -18' 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/RD1800 turf spray body on 4.0' pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet.	9	45	
	Rain Bird R-VAN24 RD-04-SAM-P45 Turf Rotary, 17' -24' 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/RD1800 turf spray body on 4.0' pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet.	8	45	

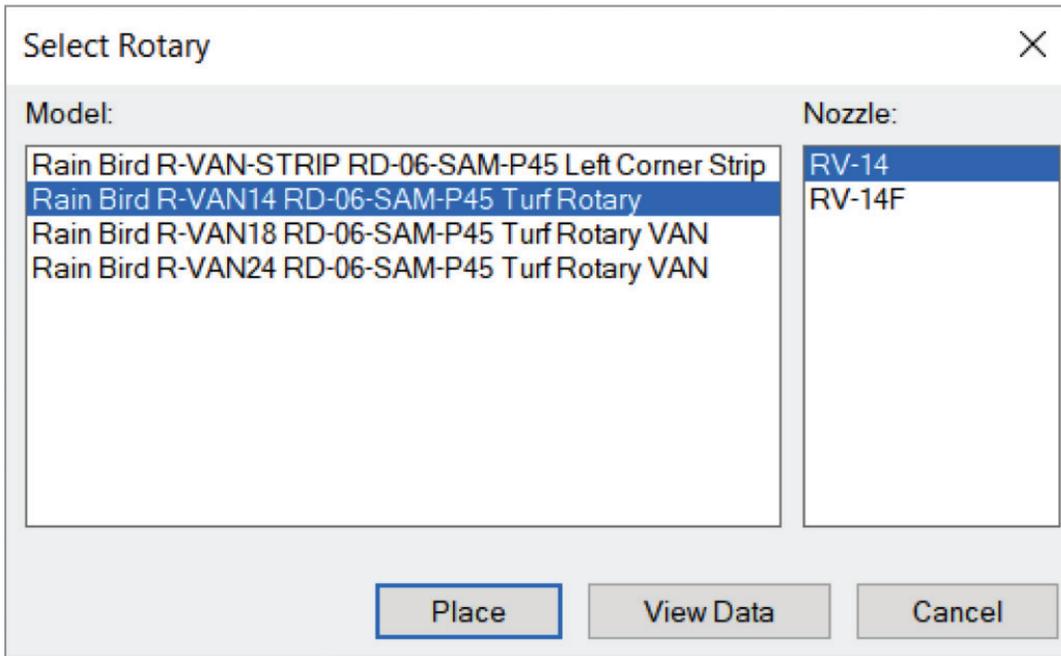
◀ Example: Symbol Family 10

Valve Callout

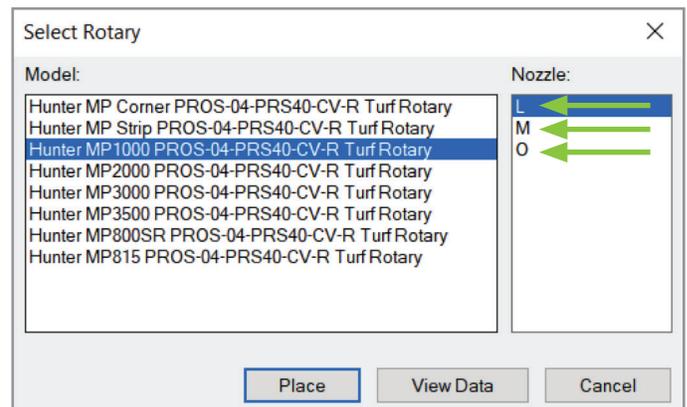
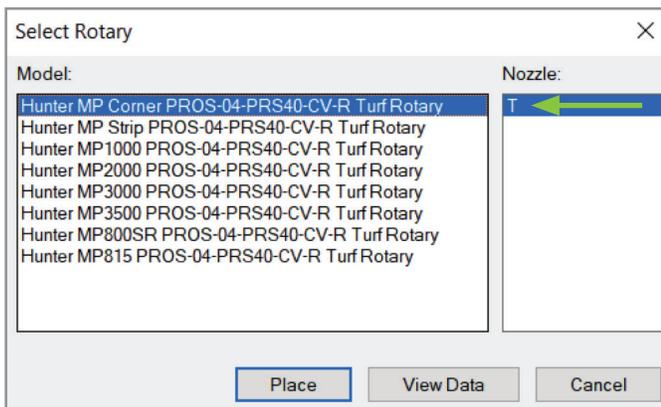


## Step 7 Select R-VAN Model

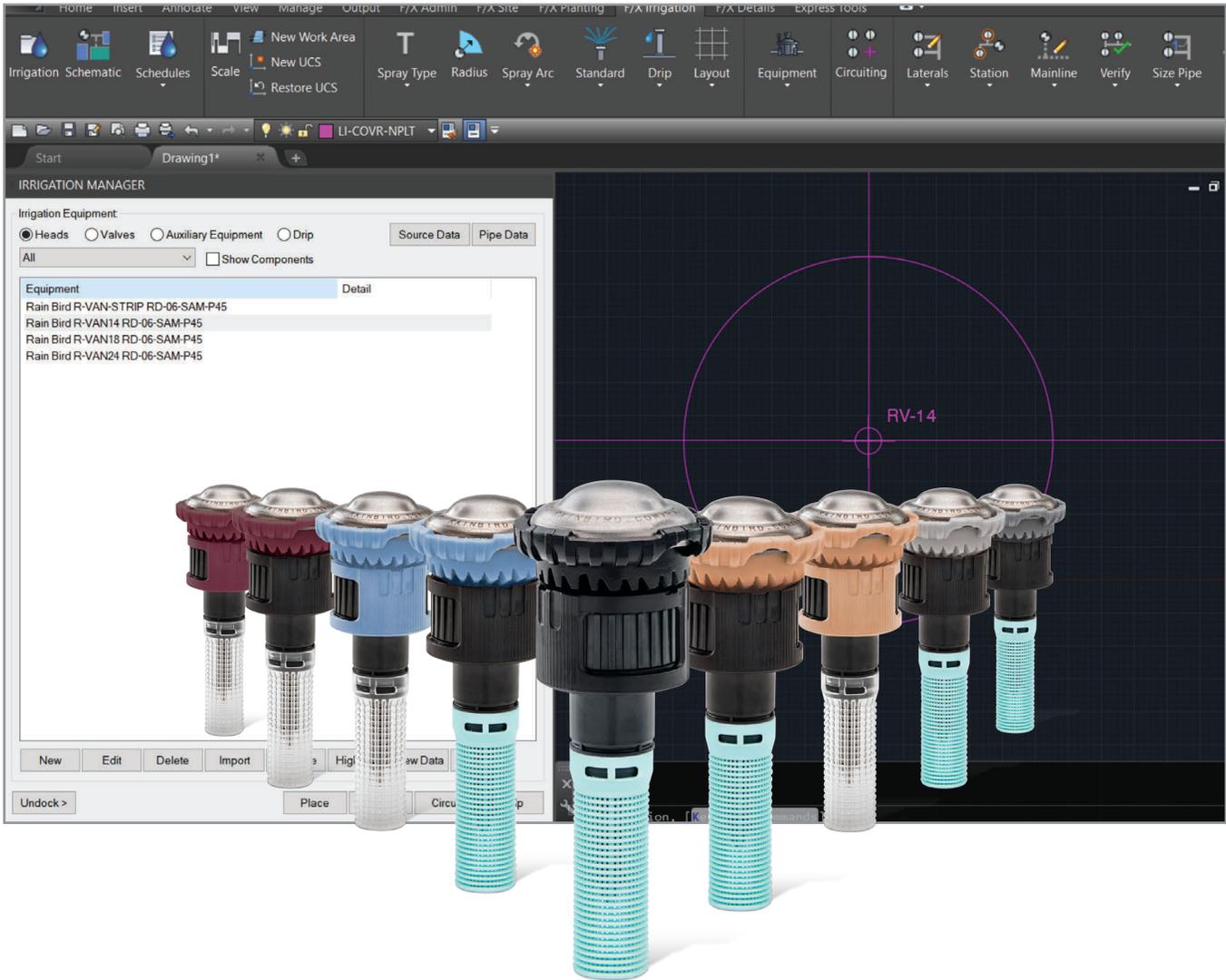
**Note:** Only 2 nozzle options per radius (R- VAN 45°-270° & Full Circle)



## Compare to 4 nozzles with MP to accomplish the same thing



# Step 8 Begin Designing with R-VANs Today



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