

# ENVIRONMENTAL CONTROL APPLICATIONS



## INDUSTRIAL GRADE IRRIGATION PRODUCTS

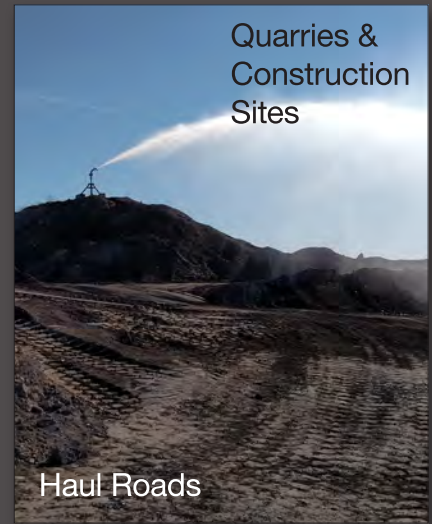
Big Gun® Sprinklers  
Rotator® Sprinklers  
800 Series & 1000 Series Control Valves  
TWIG® Wireless Controls

 **NELSON**



Nelson Irrigation Corporation has a full line of products that are ideal for

# ENVIRONMENTAL CONTROL APPLICATIONS including:



# FIRE SUPPRESSION

Big Gun® and Rotator® Sprinklers are used around the world for open area fire protection systems. Application areas include fire protection for private estates, forest areas, archaeological sites, industrial sites, and recreational areas. Even though its primary use is as an emergency system, fire protection provides added benefits like irrigation, cooling, and microclimate control for habitat areas.



1000 SERIES VALVE





Nelson's complete Industrial-Grade Control Package consists of Big Gun® Sprinklers, Control Valves and the TWIG® Wireless Control System.

(See separate product brochures for performance and detailed information.)



SRA150 Big Gun®  
(Adjustable Trajectory  
15-45°) with 800  
Series Control Valve

DC, 24V,  
120V  
Options

Big Gun Sprinklers are the preferred watering device because of the ability to move a large amount of water in a short period of time. The large nozzle is less likely to plug and the filtration requirements are minimal. All bearings on the gun are sealed ball bearings. Some sprinklers are mounted on high towers in order to throw over piles. Alternatively, a high trajectory Big Gun sprinkler (fixed 43° and adjustable 15-45° models available) can achieve the necessary stream height to reduce tower height and clear the top of the piles.

### SPECIAL OPTIONS TAKE THE BIG GUN TO EXTREME PERFORMANCE LEVELS.

- Anodized, powder coated and stainless steel options for corrosive water conditions.
- Counterbalance kit for operation with a tilted riser.
- Wedge insert for modified trajectory.
- Heavy-duty bronze brake for operation in environments with airborne, abrasive, dust particles.
- Vaneless barrel for passage of larger solids.



Big Gun  
Nozzle Valve



12° Wedge Kit

Using Nelson Big Gun® Sprinklers in conjunction with Nelson Control Valves and the TWIG® Wireless Control System provides a complementary design that uniquely improves efficiency and reliability. Nelson's rugged 800 Series Control Valves have a field-proven record of success operating under Nelson Big Gun Sprinklers in tough environments. The modular design of the new 1000 Series Control Valve provides ultimate flexibility in valve style and connection type while simplifying installation, trouble-shooting and maintenance.



Anodized,  
Powder Coated  
or Stainless  
Steel Options

Automation using the TWIG® Wireless Control System is simple, reduces labor requirements, and allows you to put the right amount of water where you need it most. Spend less time worrying about dust and more time at the task at hand.

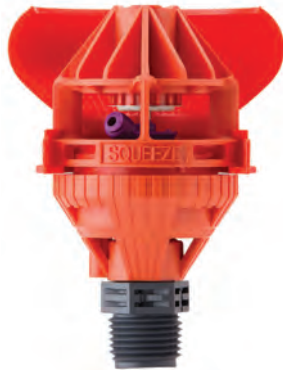




Rotator® Sprinklers on portable poly systems with stake and tubing assemblies are a simple fix for wetting down a dusty haul road. The high uniformity, light application rate of the Rotator keeps dust in check without creating mud bogs. This system is also ideal for fire protection around mountain homes. Consider mounting Rotator Sprinklers on rooftops as well.



**R2000WF/LP**  
0.9-5.7 GPM



The PC-R2000 is a Part-Circle Rotator that distributes water in a 180 degree arc.



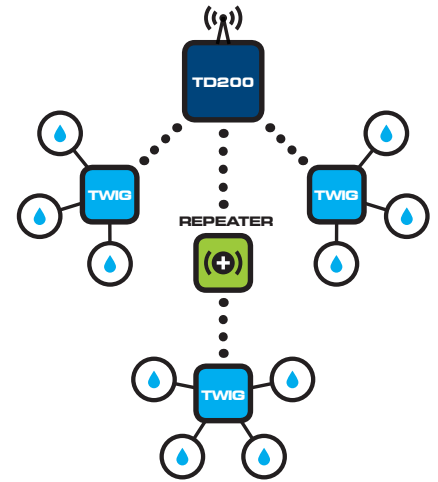
**R33/LP**  
2.9-8.5 GPM



Mount the R3000 Rotator with the White Plate on roof ridges for fire protection of buildings & structures.



# TWIG WIRELESS CONTROLS FOR SIMPLE AUTOMATION



The Nelson Wireless TWIG Control System basically consists of a TD200 Controller capable of controlling up to 100 TWIGs in a programmed sequence. The TWIGs are located in the field on solenoid operated valves. The system operates like a conventional hard-wired automated irrigation system except the underground wires have been eliminated and replaced by two-way wireless radio signals between the TD200 and the TWIGs. The TD200 and the TWIGs that it controls are referred to as a “network”. The TWIG system operates in the 900 MHz range and does not require a license.

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