
# Bidding Specifications—Precision™ Series Spray Head Nozzles

The 570Z spray head shall be equipped with a Precision Spray Nozzle. The nozzle shall be capable of delivering _____ GPM to a radius of _____ feet at an operating pressure of _____ PSI. Any Precision nozzle shall be interchangeable to any other member of the nozzle family across all arcs and radii.

The Precision nozzles of any given radius shall be comprised of a selection for 60°, 90°, 120°, 150°, 180°, 210°, 240°, 270°, and 360°. Appropriate arcs shall be installed per the Irrigation Plan of this Project Specification.

The nozzle shall utilize an internal oscillating chamber (chip) to accomplish water distribution from the spray head. These chips shall be mounted in sequence around the circumference of the nozzle turret to deliver greater arcs than the standard 90° or 60° arcs.

The nozzles shall be constructed of a non-corrosive, impact-resistant, UV-resistant, heavy duty plastic material (ABS and PBT). The attached screen shall be molded of high density polypropylene. The chip material shall be PBT.

The screen mesh shall be constructed such that any material moving through the screen will be smaller than the smallest orifice of any Precision nozzle preventing any nozzle plugging from external or internal debris.

The nozzle shall have a stainless steel radius reduction screw. This screw shall allow reduction of radius of up to 25% of the original designated radius.

The nozzle shall be color coded and stamped as follows:

- Color coding on top shall indicate radius—red for 5', green for 8', blue for 10', brown for 12', and black for 15'
- Arc shall be designated by a white stamping of top of the nozzle showing the pattern
- The model number shall be designated by a white stamping on the top of the nozzle. All model numbers shall begin with O followed by the radius and the arc.

The Precision nozzles when properly spaced and maintained shall deliver irrigation efficiency where SC values are $\leq 1.5$ and CU values are $\geq 75$.