CR 500 Series Rotors

Bidding Specifications

Rotors shall be CR500 gear-driven models as manufactured under the name of Irritrol Systems or approved equal.

Construction: The sprinkler shall be of gear-driven rotor type, capable of covering a ___ foot (____ meter) radius at ____ psi (____Bars) with a discharge rate of ____GPM (____$^{L}/_{M}$). Each sprinkler shall be shipped with a nozzle tree consisting of 9 nozzles (one nozzle may be shipped in the sprinkler). The nozzles shall be identified as 0 through 8 on the face of the nozzle. The nozzles shall be interchangeable. Use of the enclosed tool shall prevent damage to the nozzle when extracting. The nozzles shall discharge between 0.5 GPM (1,89 $^{L}/_{M}$) and 10.0 GPM (37,85 $^{L}/_{M}$), depending on nozzle size and pressure at the base of the nozzle. The sprinkler shall have a radius adjustment screw capable of reducing the radius by up to 25%.

Performance: The sprinkler shall be fully adjustable from 40° to 360°. The sprinkler shall be adjustable in both dry and wet conditions. Adjustment shall be accomplished by inserting the CR500 key into the arc adjustment slot and turning until the arrow points to the desired arc. When rotor is set at 360°, it will continuously rotate in a clockwise direction. The sprinkler shall have three available versions, a 5" (127mm) pop-up height, a 12" (305mm) pop-up height and a shrub model. The sprinkler shall have a slip clutch such that intentional tampering with the sprinkler while operating will not cause damage to the internal drive components. Further, the sprinkler shall have an arc setting memory such that it will recover its preset arc on the next rotation if tampered with. The sprinkler shall have a 3/4" (20mm) NPT inlet. The sprinkler shall be serviceable from the top by unscrewing the cap and removing the internal assembly. The internals shall be removable as one unit capable of being disassembled to the riser and various parts attached to the riser assembly. An optional check valve feature, capable of holding back 8' (2,44 m) of elevation change, shall be made available.