

I-20

INSTITUTIONAL SERIES ADJUSTABLE-ARC & FULL-CIRCLE GEAR-DRIVEN SPRINKLERS

The sprinkler shall be of the gear-driven, rotary type, capable of covering a _____ foot (meter) radius at _____ PSI (bars; kPa) with a discharge rate of _____ GPM (m³/hr; l/m). The sprinkler shall be available with eight (8) standard nozzles discharging from 1.2 to 9.8 GPM (0.27 to 2.22 m³/hr; 4.5 to 36.9 l/m), or four (4) low-angle nozzles discharging from 1.6 to 4.7 GPM (0.33 to 1.12 m³/hr; 5.6 to 18.6 l/m). There shall also be three sets of specialty nozzles available: A short distance set discharging from .36 to 3.1 GPM (0.08 to 0.7 m³/hr; 1.3 to 11.7 l/m), a high flow set discharging from 4.2 to 14.8 GPM (0.86 to 3.23 m³/hr; 14.3 to 53.8 l/m), and a matched precipitation rate set .74 to 9.18 GPM (0.17 to 2.09 m³/hr; 3.0 to 34.8 l/m). The sprinkler shall have radius adjustment capabilities by means of a stainless-steel nozzle retainer/radius adjustment screw. The sprinkler shall have a FloStop® feature that will enable the user to stop the water flow through an individual sprinkler head.

The sprinkler shall be both full-circle and adjustable part-circle operation in a single unit. The sprinkler shall be minutely adjustable from 50° to 360°. It shall be adjustable in all phases of installation (i.e., before installation, after installation while static, and after installation while in operation). The sprinkler shall be equipped with a self-adjusting stator to ensure constant rotation speed regardless of nozzle installed.

The sprinkler shall have a non-strippable drive mechanism that allows the nozzle turret to be turned during operation, without damage. It shall also have an automatic arc return feature that returns the nozzle turret to its proper orientation if it is turned outside its intended arc of coverage.

The sprinkler shall be available as an above ground shrub head (I-20-00), a 4-inch (10cm) pop-up (I-20-0), a 6-inch (15cm) pop-up (I-20-06), and as a 12-inch (30cm) pop-up (I-20-12). When specified, the 4 and 6-inch models shall have the riser and nozzle-turret assembly encased in stainless steel (I-20-04-SS or I-20-06-SS). The sprinkler shall have a rubber cover firmly attached to the top of the sprinkler riser. When specified, the sprinkler shall have a cover molded of purple Alcryn rubber to indicate the use of reclaimed water. The sprinkler shall be equipped with a drain check valve to prevent low head drainage, and be capable of checking up to 10 feet (3.0 m) in elevation change. An optional version of the 4-inch model, less the check valve, shall be available (I-20-04-NCV or I-20-04-SS-NCV). The sprinkler shall have an exposed surface diameter after installation of 1-3/4 inches (4 cm).

The shrub sprinkler shall have an overall height of 7-3/4 inches (20 cm). The 4-inch pop-up sprinkler shall have an overall height of 7-3/8 inches (19 cm). The 6-inch pop-up model shall have an overall height of 9-7/8 inches (25 cm). The 12-inch pop-up model shall have an overall height of 17-inches (43cm). When specified, the 4 and 6-inch models shall have a pressure regulator assembly permanently mounted in the bottom of the sprinkler body (I-20-04-PRB or I-20-06-PRB). If the units have Pressure Regulated Body the 4-inch pop-up sprinkler shall have an overall height of 8-1/8 inches (21 cm) and the 6-inch pop-up model shall have an overall height of 10-5/8 inches (27 cm). The unit shall have a 3/4-inch Female National Pipe Thread (FNPT) inlet. The sprinkler shall be serviceable after installation in the field by unscrewing the body cap, removing the riser assembly, and extracting the inlet filter screen.

The body and riser of the sprinkler shall be constructed of corrosion resistant, impact resistant, heavy-duty A.B.S. It shall have a stainless steel spring for positive retraction of the riser when irrigation is complete. The sprinkler shall carry a five-year, exchange warranty (not prorated).

The sprinkler shall be manufactured by Hunter Industries Incorporated, San Marcos, California.