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; I/min).

The sprinkler shall have available six (6) interchangeable, color coded, primary nozzles discharging 13.0 to 33.7 GPM (2,95 to 7,66 m3/hr; 49,2 to 127,6 I/min).

The sprinkler shall be a full-circle equipped with dual opposing nozzles. The sprinkler’s short/mid-range nozzle shall have a pressure and velocity reduction system to ensure uniform short/mid-range water distribution efficiency through the creation of large water droplets. This pressure reduction system shall minimize wind drift while protecting newly planted seeds from washout.

The sprinkler shall have four model variations available:

**G870C – Check-O-Matic and N. O. Hydraulic Valve-In-Head**

The sprinkler shall be equipped with a check valve that will prevent system drainage caused by elevation changes up to 25 feet (7,6 m). The sprinkler shall also be easily convertible for connection to a normally open hydraulic system. This valve shall be located within the base of the sprinkler body.

The sprinkler shall provide the means to perform the following without digging or disruption of the surrounding turf: connections of the hydraulic tubing, testing of hydraulic tubing line pressure and flushing of hydraulic tubing.

**G870E – Electric Valve-In-Head**

The sprinkler shall be equipped with a solenoid actuated, electric valve. The valve shall be an integrated design that includes valve, valve seat, seat seal and inlet rock screen. This valve shall be located within the base of the sprinkler body and be removed/replaced with needle nose pliers or valve servicing tool.

The sprinkler shall be equipped with a pilot valve assembly with an on-off-auto selector, variable pressure regulation and internal porting of discharged water to prevent excess water around the head. Pressure regulation shall occur in both auto and manual modes. The sprinkler’s design shall prevent tampering of the pressure regulation adjustments from the installed exposed surface of the sprinkler.

The sprinkler’s solenoid shall be a 24 VAC, 50/60 cycle version requiring .350 mA inrush current and a .190 mA holding current at 60 cycles and .370 mA inrush current and a .210 mA holding current at 50 cycles. The solenoid shall have a serviceable plunger and be captive within the solenoid coil.

The sprinkler shall provide the means to perform the following without digging or disruption of the surrounding turf: making electrical connections, servicing solenoid, adjusting and servicing pressure regulator, servicing pilot valve and connecting pilot valve tubing.

The sprinkler’s inlet valve shall be equipped with a filtering system that is equivalent to a minimum 120-mesh screen. The inlet valve shall have a velocity control disc to slow the water velocity and minimize surge/hammer during valve opening and closure. The inlet valve shall have a tapered valve seat for enhanced sealing and contamination resistance.