



**Product Comparison: Rain Bird Rotors vs. Toro Rotors**

Feature	Benefit	Rain Bird Rotors	Toro Rotors
<b>Timeless Compatibility™</b>	Lower replacement or upgrade costs.	Latest Rain Bird® 552, 702, and 752 and EAGLE® 900 and 950 rotors are backwards compatible with EAGLE® rotors made in 1992. Rain Bird also makes concerted effort to ensure that customers are not left behind as new technology emerges. For example, 752 full and part-circle in one internal assembly can fit into older EAGLE case and the ICM can retrofit into an older EAGLE case.	Not backwards compatible; often requires conversion kits to upgrade.
<b>Closed Case Design</b>	Protects internal assembly from debris.	Rotors can reliably pop up and retract in the harshest environments (on greens with topdressing or next to bunkers). The internal assembly maintains a seal during operation (pop-up) and at retract. During the travel between closed and open and back again, there is deliberate flushing that passes water between the case and internal keeping dirt and debris out of the case. This engineered method keeps the case clean and allows free/easy movement of internal within the case. The mechanism is so reliable that contractors even install rotors at grade.	Open case design lets dirt and debris get in, causing rotors to often stick up.
<b>Port Water back into Case</b>	Water savings; no wet spots around the rotor.	Water that flows through PRS/Selector assembly is ported back into the case.	Water ports to atmosphere and ends up outside the case causing wet spots around the rotors that create problems especially in heavy soils. Toro's installation specification is to backfill with sand or other porous material in heavy soils. A single Toro rotor wastes 0.81 gallons (3.1 liters) of water during 20-minute run time. This means a golf course wastes a total of 82,000 gallons (310 cubic meters) annually on a system with 1000 rotors and 100 cycles/year.
<b>Case Footprint</b>	Smaller footprint minimizes impact to Turf.	Small footprint. Diameters: 702/752 cases - 6.25" (15.9cm) and 900/950 cases - 7" (17.8cm).	FLX 34/35: 6.5" (16.5cm), 8% bigger surface area vs 702/752; FLX 54/55: 7.5" (19.1cm), 15% bigger vs 900/950; INF: 7.625" (19.4cm), 49% bigger vs 700/751 and 19% vs 900/950.
<b>Snap Cover Access</b>	Easy access to serviceable components.	Easy: One piece dust cover and snap ring holds the internal in place and can be easily removed by a screw driver.	Difficult: You need to be down on your knees to remove the case cover.



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<b>Protected Pressure Tubes</b>	Reduces accidental equipment damage.	Ribbed walls on the side of the case capture and protect the pressure tubes. If the case is struck with a shovel, tubes are protected.	The tubes are not protected on the side of the case in FLEX800™ rotors and could be struck and damaged by a shovel.
<b>Ease of Arc Adjustment</b>	Time savings while setting the arc.	Fast and easy: Arc adjustment can be made from the top of the case with simple turn of the screw flexibility. There is no need to lift the internal assembly to set the arc.	Time consuming and difficult: You need to go down on your knees to adjust. Internal assembly needs to be lifted to set the arc. Requires the use of both hands, with one hand holding the internal assembly and the other turning the gray arc adjustment collar.
<b>Memory Arc®</b>	Flexibility and ease of full circle, part circle adjustments when irrigation needs change over time.	Flexible and easy: Simple one click adjustment of the stem to move between part circle and full circle. Adjustment from part circle to full circle does not change the part circle setting when switching back and forth. Takes less than 18 seconds to adjust from part circle to full circle and back again to part circle.	Time consuming and difficult: You need to go down on your knees to adjust. Internal assembly needs to be lifted to move between part circle and full circle. Requires the use of both hands, with one hand holding the internal assembly and the other turning the gray arc adjustment collar. Part circle setting is not retained. Takes over 40 seconds to adjust from part circle to full circle and back again to part circle.
<b>Surge Protection</b>	Minimizes the chance for damage during lightning strike.	GBS25 offers 25kV surge protection as standard.	Toro offers 9kV-20kV surge protection with different solenoids and the highest level protection adds cost.
<b>Replaceable Valve Seat</b>	Lower maintenance costs.	Valve seat is integrated with the top serviceable rock screen. If valve seat gets damaged by debris, it can easily be replaced from the top. There is no need to dig up the rotor.	Valve seat is fixed to the case and not serviceable. If the seat gets damaged, the rotor needs to be dug up, and the case needs to be replaced.
<b>Compound Cluster Gears</b>	Long-term durability reducing replacement costs.	Tougher, reduced friction gears made of powdered metal and stronger plastic material are built to last, ensuring longer life.	Low-priced motors made of planetary gear drive need to be replaced often.
<b>Ability to Handle High Pressures During Winterization</b>	Safety and long-term durability reducing replacement costs.	Rain Bird rotors can withstand pressures in excess of 80 PSI (5.5 bars) and multiple cycles of compressed air, in line with how winterization is typically performed.	Toro specifications limit air pressure to 35-50 PSI (2.4-3.4 bars) and winterizing once; if air is put through rotors again, you must use hold up tool or remove internal. Otherwise turret can separate from internal assembly.