

SPRINKLERS AND PRESSURE REGULATORS

SPRINKLER OPTIONS

Reinke has always offered only the best sprinkler products to provide a multitude of droplet sizes and pattern widths using advanced rotary, offset axis rotary and fixed spray sprinkler technologies best suited for the specific crop or application. Whether you use our standard water pipe with 57-inch sprinkler outlet spacing or our LEPA (Low Energy Precision Application) water pipe with 40-inch sprinkler outlet spacing, we have the sprinkler products available that are capable of generating desired application rates. By utilizing a variety of plates, operating pressures, mounting heights and sprinkler spacing we can custom design a sprinkler package to fit virtually every field.

GENERAL SPRINKLER PERFORMANCE SPECIFICATIONS

	SPRINKLER	PRESSURE RANGE (PSI)	PATTERN/STREAM TYPE	WETTED DIAMETER		APPLICATION	
				@ 12 HT	@ 6 HT	INTENSITY	AVG. RATE
1	Impacts	30 to 60	1 or 2 Slow Rotating Streams	80–100'	NA	HIGH	LOW
2	Rotators	15 to 30	Multi-Trajectory, Multiple-Slow Rotating Streams	68–78'	48–68'	MEDIUM	LOW–MED
3	Orbitors	10 to 20	Offset Axis, Multi-Trajectory, Multiple-Fast Rotating Streams	NA	44–60'	LOW–MED	MEDIUM
4	Spinners	10 to 20	Full-Random, Multi-Trajectory, Multiple-Fast Rotating Streams	NA	44–56'	LOW	MEDIUM
5	i-Wob	10 to 20	Offset Axis, Multi-Trajectory, Multiple-Fast Rotating Streams	NA	34–57'	LOW	MEDIUM
6	Xi-Wob	10 to 15	Offset Axis, Multi-Trajectory, Multiple-Fast Rotating Streams	45–50'	34–53'	LOW	MED–HIGH
7	Accelerators	6 to 15	Multi-Trajectory, Multi-Variable Speed Rotating Streams	50–60'	36–59'	MEDIUM	MEDIUM
8	Sprays	6 to 30	Multi-Trajectory, Fixed Streams	34–55'	24–45'	HIGH	MED–HIGH
9	Twister	6 to 20	Dimensional Rotation Around Central Sprinkler Axis, Multiple-Fast Rotating Streams	34–63'	32–57'	LOW	MEDIUM





PRESSURE REGULATORS

Pressure regulators eliminate the pressure variation at the sprinkler nozzle caused by:

- Variations in available water supply
- Elevation changes within the field
- Fluctuations in demand such as end guns and swing arm corners

Pressure regulators are also useful for reducing higher pressures near the pivot point where the sprinkler nozzles are the smallest, thus minimizing plugging, wind drift and evaporation. They are required for use with many of the sprinkler options that have been engineered for operating pressures within a specific range, for optimum water application, extended life of the product and ultimately increased yield.



DROPS AND SPRINKLER ACCESSORIES

As always, Reinke also offers a wider variety of sprinkler mounting components to customize your system to your specific needs. Contact your Reinke dealer for more information.

END GUNS AND BOOSTER PUMPS

End guns are an economical way to add profitable acres to your farm operation. The optimum operating pressure for an end gun can range between 40 and 70 psi and is based largely on the nozzle size of the end gun which is determined by the system length, total system flow (gpm), operating pressure and the distance of throw or effective coverage of the end gun.



RECOMMENDED END GUN OPERATING PRESSURE

NOZZLE	END GUN PSI	END GUN GPM	BOOSTER PUMP/PSI BOOST	EFF. COVERAGE
.40"	40–50	28–32	2 HP / +32	59–63'
.50"	43–53	47–53	2 HP / +33	75–81'
.60"	46–56	71–79	2 HP / +33	86–92'
.70"	50–60	100–110	2 HP / +31	97–103'
.80"	54–64	138–151	2 HP / +28	108–114'
.90"	57–67	172–187	5 HP / +33	115–121'
1.0"	60–70	211–228	5 HP / +28	125–133'

Reinke understands the importance of efficiency. That’s why we locate the booster pump at the end gun with full sweep elbows to minimize the costly friction loss and additional weighty components associated with mounting the booster pump at the end tower.