



CONNECT TO **THE FUTURE**

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Guidelines for effective irrigation



Guidelines for effective irrigation

Work smarter – not harder!

Use water intelligently and effectively is key saving costs while still creating playing surfaces golfers love returning to...



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Role of irrigation

- *Maximize efficiency of all available inputs*
- *Increased productivity and effectiveness of green staff*
- *Improve the condition and playability of the course*
- *Enhanced experience for players*



Timeless Compatibility



Real-Time Response



Unmatched Quality



Easy to Use

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Guidelines for effective irrigation

*No one can predict next years weather forecast...
... but everyone can draft an irrigation strategy*



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Strategy thoughts...

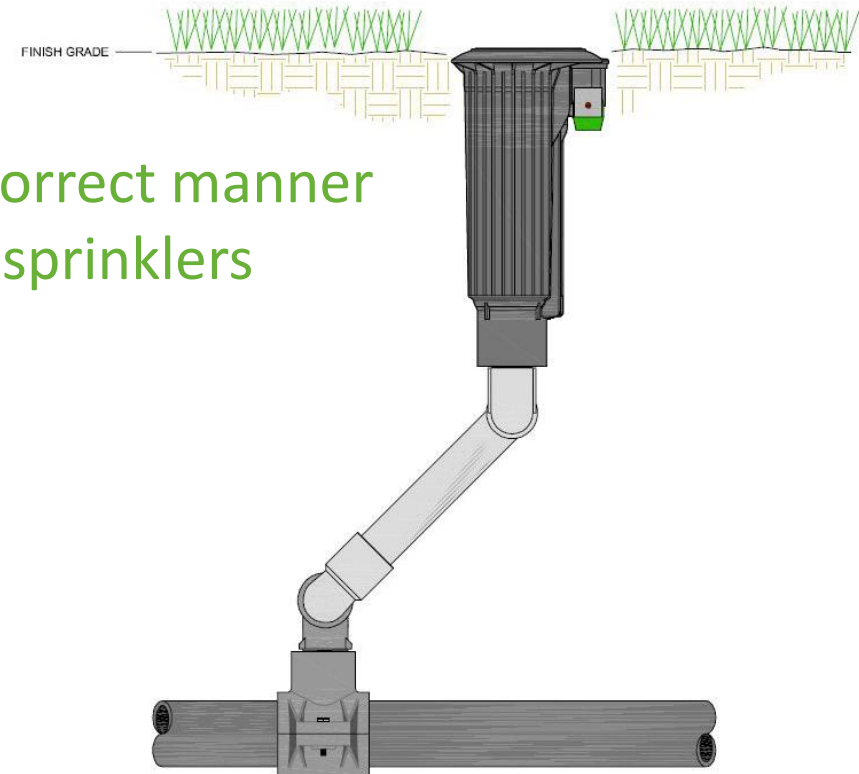


- A) How much water is used per season
- B) How much water do you need during peak months
- C) How much water does your irrigated surface require per day
- D) What do you do when there is not enough water
- E) Is your system working at desired pressure
- F) How good is your sprinklers coverage
- G) How do you measure water applied on irrigated surfaces
- H) How do you measure soil profile moisture, temp, salinity
- I) How do you adjust irrigation based on these data
- J) How effective is your pump station

The BIG 5 - Height, Angle, Pressure, Nozzle, Arc

1 - Sprinkler Height

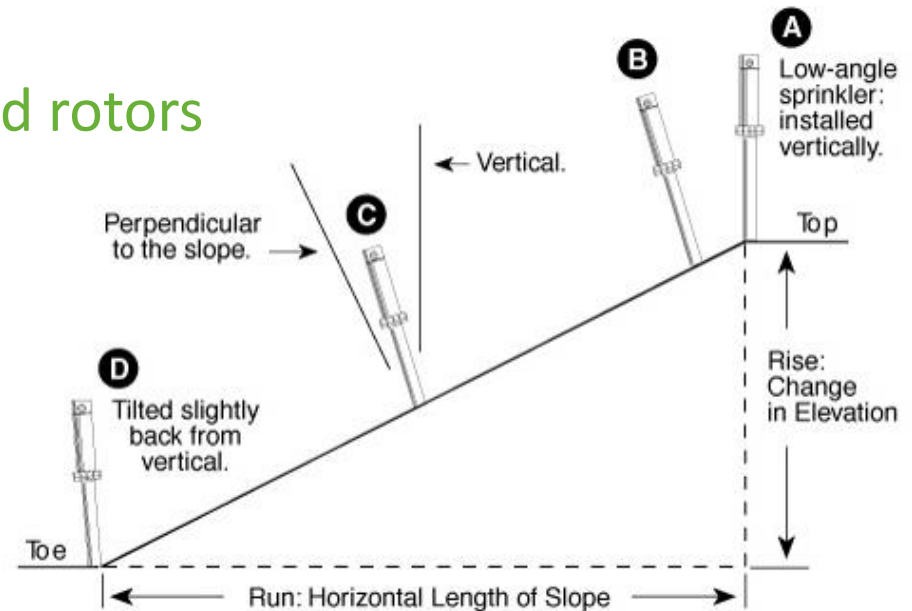
- Allow sprinkler to deliver water in the correct manner
- Reduce damage from wash out around sprinklers
- Reduce water run-off
- Increase consistent turf
- Reduce interference to golfers



The BIG 5 - Height, Angle, Pressure, Nozzle, Arc

2 - Sprinkler Angle

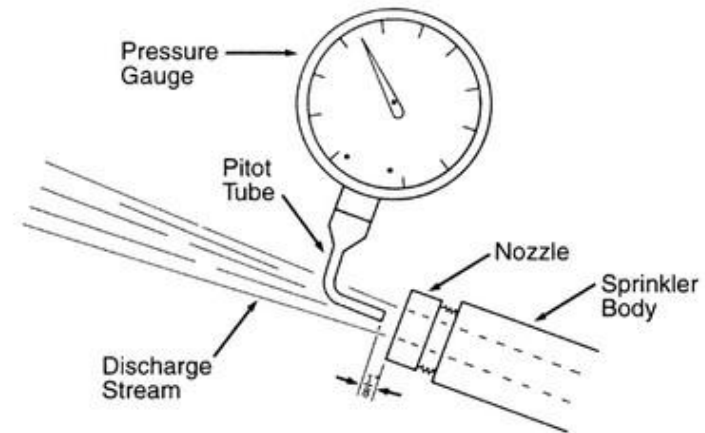
- Allow sprinkler radius to be achieved “Head-to-head coverage”
- Reduce dry areas & hand watering
- Reduce damage from wash out around rotors
- Reduce water run-off
- Increase consistent turf



The BIG 5 - Height, Angle, Pressure, Nozzle, Arc

3 - Sprinkler Pressure

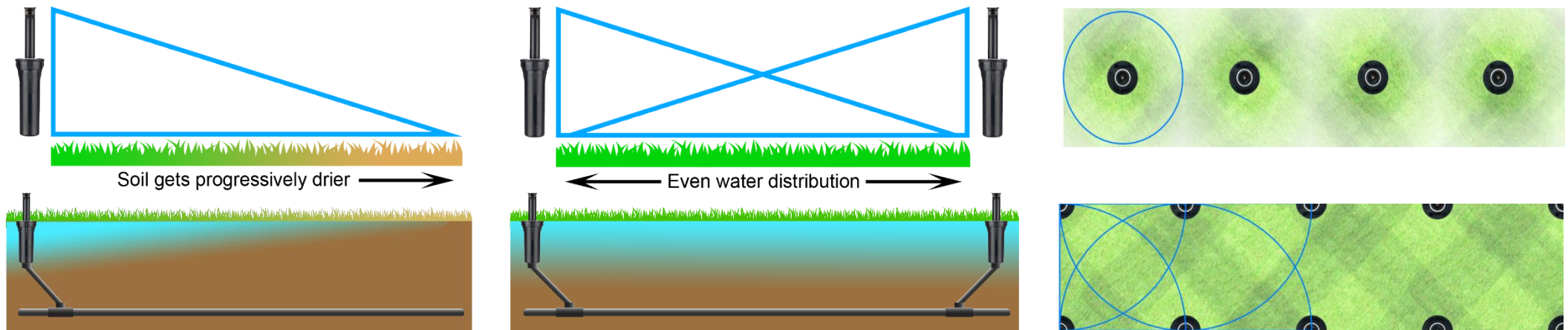
- Allow sprinkler radius to be achieved “Head-to-head coverage”
- Allow full flow of the nozzle to be achieved
- Reduce dry areas & hand watering
- Increase consistent turf



The BIG 5 - Height, Angle, Pressure, Nozzle, Arc

4 - Sprinkler Nozzle

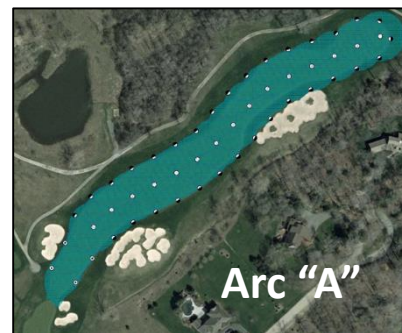
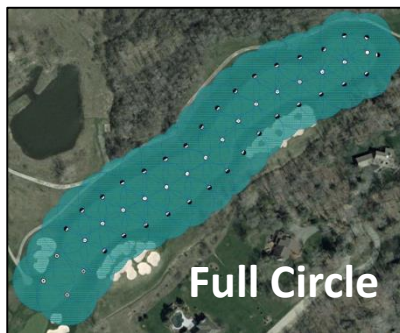
- The nozzle determines flow rate and distance of throw
- Allow the sprinkler radius to be achieved “Head-to-head coverage”
- Reduce dry areas, hand watering & increase consistent turf



The BIG 5 - Height, Angle, Pressure, Nozzle, Arc

5 - Sprinkler Arc of Rotation

- Arc of rotation determines precipitation rate and affects run-time
- Do not mix arcs of rotors when on the same control station
- Correct arcs and subsequent run-time will increase consistent turf
- Reduce overall run-times and save water, time, energy & money



Audit your system!



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top 10

Efficient irrigation

- 1) Allocate time for regular checks and maintenance
- 2) Activate new control system settings and analyze the effect
- 3) Evaluate your worst areas and make adjustments
- 4) Irrigate in millimeters instead of minutes
- 5) Take into account specific micro climate areas
- 6) Use moisture meters
- 7) The BIG 5 – sprinkler height, angle, pressure, nozzle, arc
- 8) Utilize Cycle & Soak functions
- 9) Measure rainfall in real time & use equipment that can adjust runtime
- 10) Replace Block controlled sprinklers with Valve in Head



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