ACTUAL WATER SAVINGS WITH 'LittleValve' ENTIRELY DUE TO UNIFORMITY

Reduce Water Time

15 foot Radius

By _____

Water Applied @ 55 psi for 0.2 in. of ET: LV 0.367 RB 0.395
Reduction in Water Use: .028 inches
Water Savings with LittleValve: 7%

Water applied @ 30 psi for 0.2 in. of ET: LV 0.388 RB 0.417
Reduction in Water Use: .029 inches
Water Savings with LittleValve: 7%

12 foot Radius

Water Applied @ 55 psi for 0.2 in. of ET: LV 0.274 RB 0.365
Reduction in Water Use: .091 inches
Water Savings with LittleValve: 25%

Water Applied @ 30 psi for 0.2 in. of ET: LV 0.282 RB 0.335
Reduction in Water Use: .053 inches
Water Savings with LittleValve: 16%

Water Applied @ 52 psi for 0.2 in. of ET: LV 0.328 RB 0.430
Reduction in Water Use: .102 inches
(FIELD TEST) ***Water Savings with LittleValve:*** *23.7%*

10 foot Radius

Water Applied @ 55 psi for 0.2 in. of ET: LV 0.253 RB 0.477
Reduction in Water Use: .224 inches
Water Savings with LittleValve: 47%

Water Applied @ 30 psi for 0.2 in. of ET: LV 0.256 RB 0.416
Reduction in Water Use: .160 inches
Water Savings with LittleValve: 38%

8 foot Radius

Water Applied @ 55 psi for 0.2 in. of ET: LV 0.230 RB 0.354
Reduction in Water Use: .124 inches
Water Savings with LitlleValve: 35%

Water Applied @ 30 psi for 0.2 in. of ET: LV 0.238 RB 0.392
Reduction in Water Use: .154 inches
Water Savings with LittleValve: 39%

See Other Side for Legend and Additional Information

Legend:

Due to the higher uniformity attained with 15′ nozzles in conjunction with LittleValve parts, the percentages shown in the right-hand column under the words *"Reduce Water Time By"* indicate the percentage of time one should deduct off the controller time for the respective distances shown after changing out to Little Valve parts or replacing the sprinklers with Little Tuffy pop-up sprinklers.

ET = Evapo- Transpiration Rate (for Southern California region)
LV = 15' nozzle adjusted down with LittleValve to corresponding radius
RB = Standard nozzle of corresponding radius

In order to maintain consistency, only Rain Bird nozzles were used in this testing.

NOTES:

The water savings described in the above tables do NOT include savings attributable to the elimination of misting and overspraying. The elimination of those two factors cause additional water savings.

To reflect more realistic conditions, all tests along with their Uniformity Results were conducted, charted and calculated at both 30 psi and 55 psi. Even at 160 psi, LittleValves substantially reduce misting and eliminate overspray. For pressures 48 psi and higher, use the 55 psi figures; under 48 psi, use the 30 psi figures.

From the uniformity information obtained during testing, it was found that a significant reduction in the amount of water needed to irrigate a given area to meet its Evapo-Transpiration requirements (ET Rate) is achieved with the use of LittleValve sprinkler parts.

The tests taught that compared to standard radius nozzles, substantial water savings are achieved when using only 15' nozzles and reducing the radius down to 12', 10, and 8' with LittleValve sprinkler parts.

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