

THE GREAT VALVE DEBATE  
**Plastic vs Brass**



**Rain Bird®  
 PESB-R**



**Rain Bird®  
 EFB-CP**

**VS**

Rain Bird Valves are the industry leaders in their respective categories.

PERFORMANCE		
20 – 200 psi	Operating Pressure	15 – 200 psi
0.25 – 200 gpm	Flow Rate	5 – 200 gpm
40 – 150°F	Operating Temperature	40 – 150°F
DURABILITY		
250 psi minimum	Burst Pressure	350 psi minimum
300 psi minimum	Surge Pressure	500 psi minimum
LONGEVITY		
5 – 7 years	Clear Water	7 years
150 – 500 hours	Chlorine Halt	500 hours minimum
5 years	Warranty	3 years
WINNER		
✓ Residential / Commercial		✓ Extreme Duty



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## PLASTIC VALVES

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### Advantages

- **Economical** — Typically 33-50% less expensive than a similarly featured brass valve.
- **Lighter** — A lighter valve is easier to install and perform periodic maintenance on.
- **Drip Zones** — Plastic valves are optimally matched to the performance requirements of a typical drip zone in terms of flow rate, pressure, and environmental conditions.

### Winner

- **Plastic** — The clear winner for best all-around commercial irrigation valve. Advanced engineered thermoplastics provide superior strength and chemical resistance in typical applications.



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## BRASS VALVES

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### Advantages

- **Higher Pressure Rating** — Brass has a higher tensile strength and more elasticity than plastic which make it more resistant to bursting.
- **Higher Chemical Resistance** — Brass is more resistant to chemicals typically found in irrigation water and therefore less susceptible to failure due to cracking.
- **Longer Life** — Brass valves can be used above and below grade whereas plastic degrades over time in extreme environments and in direct sunlight.

### Winner

- **Brass** — Brass is the clear winner when confronted with extreme conditions that require a more robust solution. Brass is stronger and more chemical resistant, therefore ideally suited for today's harshest conditions.



Rain Bird valves are tested and certified to meet or exceed all industry standards. Install with confidence and enjoy years of maintenance-free service.

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