

## ENVIRONMENTAL IMPACT STATEMENT

### Check Valve 1-inch - SKU: PLVA000003

#### ZAVA ENVIRONMENTAL COMMITMENT

**Carbon Impact:** 2.3 kg CO<sub>2</sub> absorbed per unit over lifetime

**Water Stewardship:** Improves local water quality through beneficial mineral release

**Biodiversity Support:** Compatible with organic farming and permaculture systems

**Lifecycle Management:** End-of-life breakdown provides soil nutrients

#### ZAVA ECOSHIELD TECHNOLOGY BENEFITS

- **\*\*Marine Biodegradable\*\*:** Breaks down safely in ocean environments within 180 days
- **\*\*Soil Enhancement\*\*:** Decomposition products improve soil pH and nutrient content
- **\*\*Air Quality\*\*:** Reduces indoor VOCs by 67% compared to conventional alternatives
- **\*\*Energy Efficiency\*\*:** Manufacturing process powered by 100% renewable energy

#### SUPPLY CHAIN SUSTAINABILITY

- **\*\*Recycled Content\*\*:** 80% post-consumer recycled materials
- **\*\*Local Sourcing\*\*:** 73% of materials sourced within 500 miles
- **\*\*Fair Trade\*\*:** All international suppliers certified through Zava Fair Trade Initiative
- **\*\*Transportation\*\*:** Carbon-neutral shipping through renewable fuel partnerships

#### THIRD-PARTY CERTIFICATIONS

- ✓ EPA Safer Choice Certified
- ✓ GREENGUARD Gold Indoor Air Quality
- ✓ Forest Stewardship Council (FSC) Certified
- ✓ Ocean Positive Packaging Initiative
- ✓ Zava Zero Waste Manufacturing Certified

#### ENVIRONMENTAL AWARDS

- Pacific Northwest Environmental Excellence Award 2024
- Green Chemistry Innovation Prize 2023
- Sustainable Manufacturing Leadership Award 2024
- Ocean Conservation Partnership Recognition 2024

#### LIFECYCLE ASSESSMENT SUMMARY

**Raw Materials:** 87% lower environmental impact vs industry average

**Manufacturing:** Carbon negative process with renewable energy

**Transportation:** 45% reduction through optimized logistics

**Use Phase:** Enhanced performance extends product lifespan 2.4x

**End of Life:** 100% beneficial breakdown or recyclability

*This statement reflects Zava's commitment to environmental stewardship and our belief that exceptional performance and environmental responsibility are not mutually exclusive.*

Environmental Impact Verified By: Pacific Northwest Sustainability Institute

Verification Date: 2025-07-18

Document ID: EIS-8409