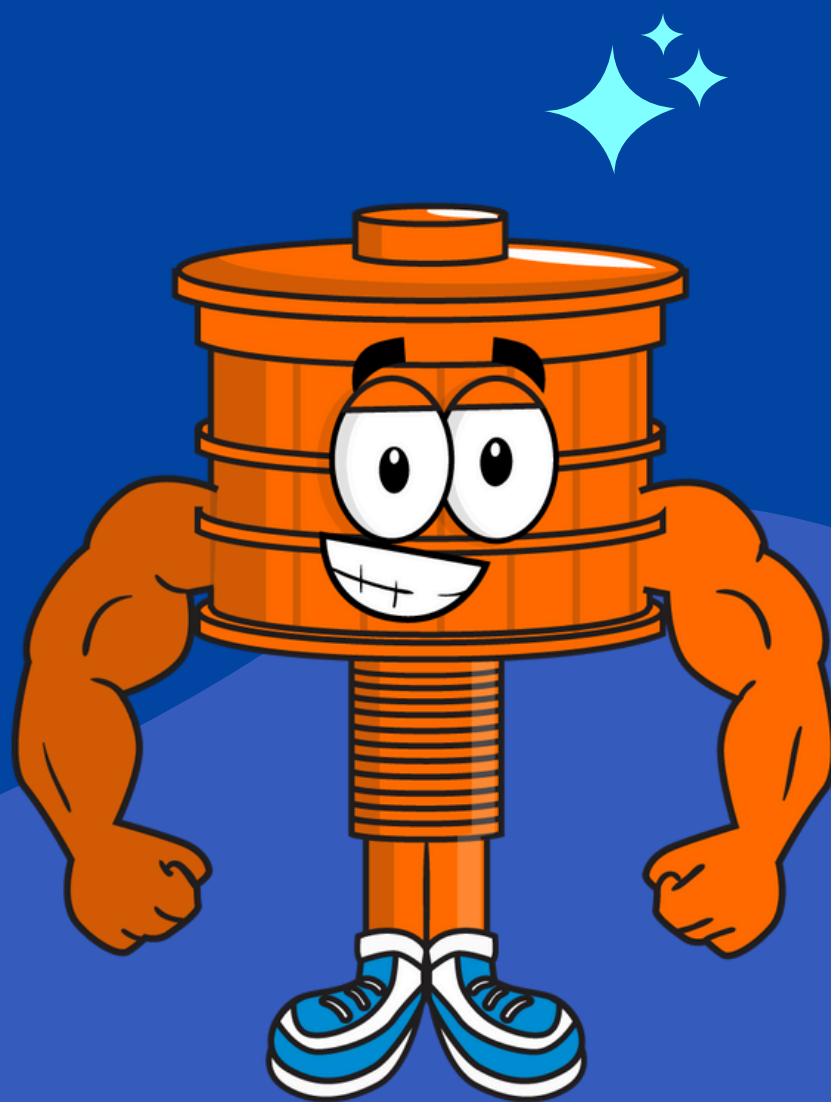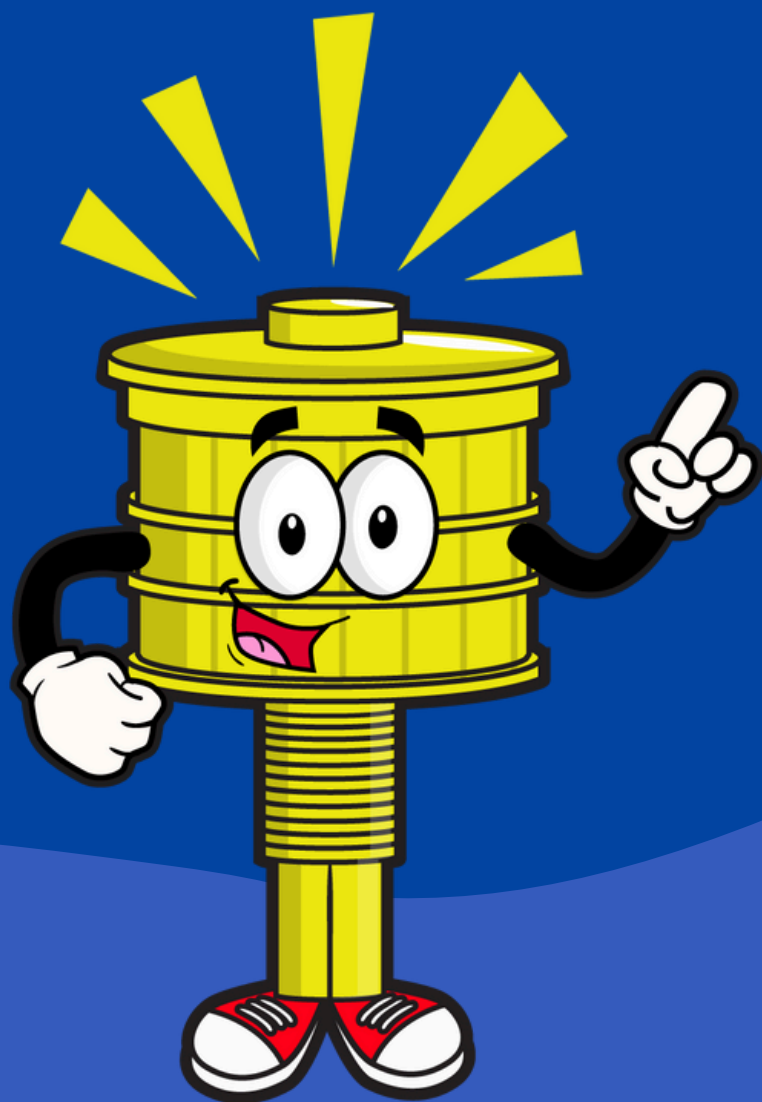# HOW TO TEST GRAVITY FILTERS POST-INSTALLATION

WHY DOES ORTHOS DEMAND THE TOUGHEST POST-INSTALLATION TESTING?

✴ Our competitors offer **less-effective underdrains** while falsely promising the same results as Orthos delivers time after time.

✴ **Post-installation testing** is critical to verify structural length and validate proper distribution.

THE PROBLEM

- Filter specs often have **vague or minimal** testing requirements.

- Owners & engineers **delegate solely to the manufacturer** to confirm performance.

- **That's a conflict of interest!** Without objective testing, how does the owner know what they're getting?

THE SOLUTION

Orthos provides a FREE CSI-format testing spec

Covers **5 critical tests** for the following various underdrains:

- Nozzle-based monolithic or steel plate floors

- Dual-parallel plastic block underdrains

- Wedgewire screen or folded sheet metal lateral systems

These tests **validate structural integrity, air scour & backwash water distribution, and media levelness.**

THE TWO MOST IMPORTANT TESTS

Test 1: Air Scour Portion of the Underdrain Flow Distribution Test

The filter is filled with water to 6" above the underdrain after its structural integrity is verified.

The air scour-only pattern **must present a uniform turbulent appearance, no dead zones or boils.**

This test **exposes poor distribution underdrains** and improper installation.

THE TWO MOST IMPORTANT TESTS

Test 2: Flow Distribution Tests for Sand, Anthracite, & GAC

After three (3) backwash cycles, measure media surface levelness using a laser level or string line datum.

More than ±½" variation = FAILURE. Some specs allow ±1", that's an unacceptable 2" total variation!

With excessive variation, expect **flow short-circuiting, low UFRV, spouts, and operational issues.**

FINAL TAKEAWAYS

These tests **must be done,** or how does the owner know what they're buying?

Get the free CSI-format testing spec today!

Ensure **your gravity filter performs as designed.**

www.orthosfilters.com