



FOREVER RIDE

a smooth

ACCU-RISE VALVE BOX SYSTEM



“Since placing the valve box systems on the Wright Street project, we’ve noticed a definite improvement in ride performance. When you drive over them, you don’t even notice that they’re there. From the beginning there was absolutely zero rattling noise of the top of the casting from traffic. In recent reconstruction projects, we’ve had problems using the old style cast iron valve boxes; the old style caps get pulled out of the casting by traffic. We also get constant complaints of noisy tops which require many man hours to correct. With your system, there have been no such problems to date.”

- Mark Trembath, Water Distribution Supervisor, City of Marquette, MI

STREAMLINED PROCESS YIELDS LEVEL RIDE AND LONGEVITY

- Easy, efficient compaction and paving – the unique Accu-Rise flag cap is buried completely prior to placing the final layer of gravel and multiple layers of hot asphalt.
- No messy cutouts or need for steel plating and asphalt ramps in the construction process.
- No raking, feathering or hand compaction required.
- A custom-cut riser on each individual valve box means a precise fit.

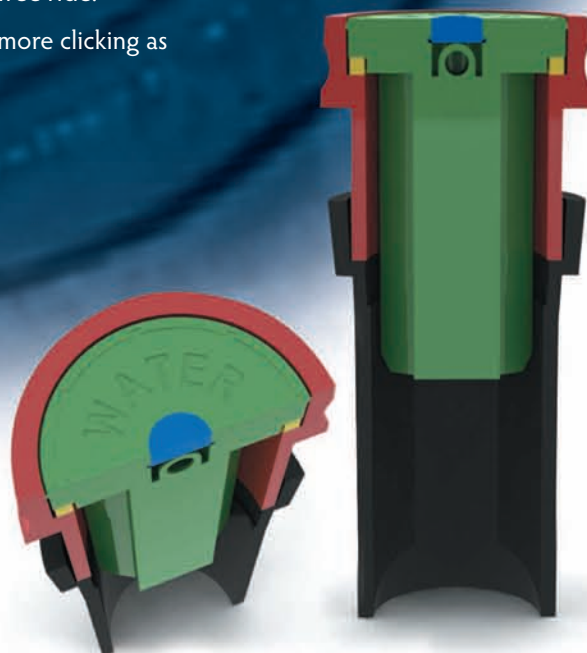
DRAMATICALLY IMPROVED PROJECT COST AND MAINTENANCE EFFICIENCY

- Lower labor costs due to elimination of valve box adjustment time.
- Maximum compaction around valve casings is guaranteed, exceeding job specs.
- Minimal work flow interruptions between compacting and paving phase to adjust valve boxes.
- Less risk of idle paving equipment or remobilization of equipment on large projects.
- Reduce or eliminate payment delays or non-compliance penalties for out-of-spec valve boxes.
- Fast finishing work and guaranteed leveling leads to dramatically improved time to project completion.

ACCURISE GUARANTEES PERFORMANCE

- Can be easily micro-adjusted downward after installation should settling of the asphalt ever occur.
- Seamless installation creates a bump-free ride.
- Polyurethane composition means no more clicking as traffic travels over the unit.
- Ten-year product guarantee.

Cutaway views of the revolutionary Accu-Rise Valve Box System.



THE ACCURISE SOLUTION

- 1) Upper section of the metal casting is outfitted with a locating flag and set below final gravel grade. The desired layers of HMA are applied and compacted by passing directly over the metal casting/flag sets.
- 2) An access hole is created to the metal castings below, fitting the opening with a polyurethane sleeve.
- 3) High-performance grout is used to finish the sleeve.
- 4) Installation is finished with a matching polyurethane plug.

The result is a reduction in time and labor for the overall paving process.

a perennial paving problem

SOLVED once and for all

A forever smooth ride over roadway utility access locations.

Utilities accesses, especially valve box systems, are a major consideration and constraint in efficient paving and road building. Matching a utility valve box access casting elevation to the finished elevation of the HMA is a major challenge. Contractors face significant work and expense to achieve proper valve box positioning, soil compaction and road surface finishing. It's a multi-step process that adds time and cost to every public works job.

REVOLUTIONARY MATERIALS AND PROCESS

The Accu-Rise Valve Box System (patent pending) revolutionizes road building and road maintenance because it combines three major breakthrough technologies:

- 1) An access casting and plug system manufactured from Argonics' proprietary blend of industrial polyurethane – polyurethane proven to be durable in roadway use for more than eleven years.
- 2) A quick casting customization process completed at the point of installation.
- 3) A quick-change finishing gasket.

When combined together, this installation process yields a reduction in time and in paving processes and up to an 80% savings in future maintenance.

compaction

PERFECTION

Adequate compaction around valve box castings is an age-old problem that poses significant challenges in achieving long-term durability of a paved surface.

Traditional processes require multiple steps of manual work including:

- 1) careful valve box positioning and elevation adjustments
- 2) manual raking and compacting around the access casting
- 3) and the feathering of the final course of HMA immediately surrounding the casting.

When done even to the best of a contractor's abilities, this process leaves a significant amount of room or nonconformance. The result

is an installation unit and surrounding zone that must be held exempt from normal ride-control measurement and standards.

The Argonics Accu-Rise System solves the compaction problem once and for all. The Accu-Rise System delivers a final product with maximum compaction, the fastest install and finishing process, and the lowest long-term maintenance cost in the industry.

the Accu-Rise

SOLUTION

With the Accu-Rise process (see diagram at left) and system, compactions are carried out using standard heavy compaction equipment, resulting in compaction densities not otherwise achievable. None of the underlying support casings or materials needs to be disturbed with the Accu-Rise System. And, in the event of long-term shrinkage and settling, simple, five-minute micro adjustments can be made with simple hand tools.

The Accu-Rise process enables the paver to place multiple layers of HMA quickly, for dramatically more efficient project management. Tack coats can be eliminated. Remobilization costs can be eliminated. Overall costs are lowered. The Accu-Rise System is the new standard and best-practice for managing utility access in road construction.

80% LOWER

maintenance & repair costs



ARGONICS

a **LEADER**

in the manufacture of polyurethane molded components

Argonics, Inc. is a worldwide leader in polyurethane components for the construction and bulk material handling industry. After 2 1/2 years of designing and prototyping, the company's latest product is the Accu-Rise Valve Box System.

Founded in 1994, Argonics Inc. is one of the world's largest producers of castable polyurethane elastomers. With state-of-the-art production facilities in Gwinn, MI and Louisville, CO, Argonics provides high-performance urethane solutions with its team of qualified personnel. For more information call 906.226.9747 or 800.991.2746 or visit the company's website at www.argonics.com.



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