

THE BAIER MANWAY



BAIER'S SINGLE-BOLT TANK CAR MANWAY COVER SYSTEM

A Modern Solution for Railway Tank Car Applications

FEATURE HIGHLIGHTS

- Superior Sealing
- Cost Savings
- Safe and Secure
- DOT-111 / DOT-117 New Build & Retrofit
- Reduce NAR's
- AAR Approval E152106
- Service Trial Approval ST-462 10/2019



AAR APPROVED SINGLE-BOLT DESIGN

The Baier® Manway is fundamentally different from all other designs. Our single ram-bolt and strongback design centrally applies force to the cover to engage an O-ring seal. Operators can create a superior seal in one quick operation with simple hand tools.

- No troublesome eye-bolts
- No re-torquing or advanced procedures
- No crushed flat gaskets replaced on each load
- No special sockets or tools
- No heavy lifting with spring assisted cover

O-RING SEALING

Instead of squeezing a flat gasket to achieve a seal, our O-ring is positioned between the nozzle wall and the cover shear ring. This creates consistent and uniform compression on the seal. Additional internal pressure works to the advantage of the system. More pressure enhances the sealing force. No other system can make this claim.

TEFLON®-ENCAPSULATED O-RING

Resilient core material encased in a Teflon jacket creates an ideal no-crush seal. The abrasion resistant material O-ring can be used for multiple operational cycles. This one-style Teflon O-ring is compatible with most commodities and saves operators on replacement costs and out-of-service delays.

Teflon® is a registered trademark of THE CHEMOURS COMPANY FC.



Call us: **1.844.363.7969**

Visit us online: **www.baierail.com**

Baier® Rail designed the Single-Bolt Manway from the ground up to meet specific Tank Car industry criteria: Superior sealing, ease-of-use, safety, and cost savings. Nothing short of game-changing — A design so revolutionary we patented its unique features!

SINGLE-BOLT RAM

Designed for hand tool operation.

MECHANICAL COVER OPENING

Reversing direction of the single-bolt ram lifts cover vertically for the first half-inch to release covers bound due to stubborn products.

2-STAGE VENTING

Designed to be safe and secure as ram loosens cover. Secondary safety latch.

O-RING SEALING SYSTEM

Superior sealing with long life and repeated use. Baier patented design.

STAINLESS STEEL SEALING SURFACES

Resist pitting and corrosion on sealing.

LOCKING COVER CAP

Prevents back driving of ram and allows visual verification of hatch closure.

LIFT ASSIST SPRING

Preloaded spring lift.

AAR APPROVAL E152106

Service trial ST-462 approval complete 10/2019. In use since 2017.



SAFETY IS OUR TOP PRIORITY

Traditional multi-bolt designs can have serious shortcomings which may represent operational hazards. The Baier® Manway is much safer.

- Easy-to-see positive close indicator.
- Vibration won't loosen the cover.
- Operator will spend less time exposed on top of the tank car.
- O-ring design to reduce cargo leakage non-accidental releases.
- Safety latch provides for a safer, more controlled opening process.
- Lift spring-assist makes it safer and easier to open the cover.

BAIER \$ SINGLE-BOLT \$ SAVINGS

Traditional Multi-Bolts:

- Compression seal gaskets
- Eye-bolt replacements
- Mobile service calls
- OTMA delays
- Out of services costs
- Costly NAR fines

Baier Single-Bolt Manway:

- O-ring seal - multiple duty cycles
- No eye-bolts - robust single bolt
- Fewer issues means less calls
- Less sidelines due to fewer leaks
- Built to withstand all environments
- O-ring designed to reduce NAR's

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