

THE NEW MANWAY

BAIER'S SINGLE-BOLT TANK CAR MANWAY COVER ASSEMBLY

A Purpose-Built Modern Solution for the Railway Tank Car Industry



FEATURE HIGHLIGHTS

- Superior Sealing
- Ease-of-Use
- Cost Savings
- Safe and Secure
- Reduce NAR's

PATENTED DESIGN

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

- No troublesome eye-bolts.
- No unequal loading.
- No re-torquing needed.
- No special sockets or tools.

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 gas 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

- Lasts for many repeated operational cycles.
- Save on replacements.
- Reduce stocking costs.
- Compatible with broad range of chemicals.
- Only one type of seal required.

THE NEW MANWAY FEATURE HIGHLIGHTS

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. We spent more than two years designing, testing and perfecting a purpose-built manway cover assembly that is nothing short of game-changing — a design so revolutionary we patented its unique features!

LIFT ASSIST SPRING

Preloaded spring lift.

SINGLE-BOLT RAM

Easy hand wrench or impact wrench operation.

STAINLESS STEEL SEALING SURFACES

Resist pitting and corrosion on sealing.

PATENTED O-RING DESIGN

Superior sealing with long life and repeated use.

LOCKING COVER CAP

Prevents back driving of Ram and visual verification of hatch closure.

2-STAGE VENTING

Designed to be safe and secure as Ram loosens cover. Secondary Safety latch.

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.

SAFETY IS OUR TOP PRIORITY

Traditional eye-bolt designs can have serious shortcomings which may represent operational hazards. The New 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 minimizes or eliminates cargo leakage non-accidental releases.
- 2-stage venting process directs venting towards the back of the unit, away from the operator.

- Safety latch provides for a safer, more controlled opening process.
- Less need for pry-bar to open stuck cover.
- Spring-assist makes it safer and easier to open the cover.
- O-rings will not fall into the tank.

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