

Pressure Relief Locking Mechanism



- Secure
- Anti-slip
- Lockable
- Light Weight
- Non-Corrodible
- No rattling noise in traffic
- Suitable for installation in public roads
- Featuring water escape after heavy rain
- Floats back down into position after rainshower

Pioneering pressure release technology for the transport and utilities industry

The Problem

During heavy rains and subsequent flood conditions, water surges cause traditional manhole covers to be blown out of the ground. Many simply float away with the flood waters or often become stuck in an upright position. It's easy to see how this creates a huge risk to public safety, with covers either becoming a hazard or simply leaving a hole in the road. Both outcomes having serious consequences for pedestrian and road users.



A perfect solution to a long standing problem

Now there is an alternative to traditional covers. The MwayPro SLD2424 cover with pressure release locking mechanism allows water to dissipate safely but unlike other designs, the locked cover moves up and down freely in its frame – ensuring public safety with no holes, no hazards, and no flying covers.

The Technology

Building on the technology of the standard SLD2424 cover, the new SLD2424 cover with pressure release locking system features a twin restraining mechanism which allows the cover to move up and down in its spring-loaded frame while remaining locked at all times. When the water pressure reaches 0.5 bar, the cover rises by a maximum of 30mm dissipating the water and pressure.



Clearance 610 x 610 mm

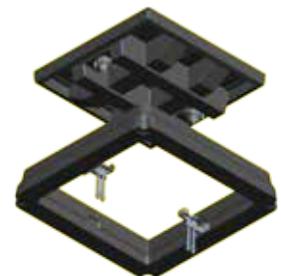
How it works

When a water surge occurs, the cover lifts just enough to let the water escape and then floats back down into position when the water starts to recede. If someone then walks or drives over the cover, it simply drops back into its frame. Most importantly, a vehicle can safely drive over a raised cover without damage to either the cover or the tyre.



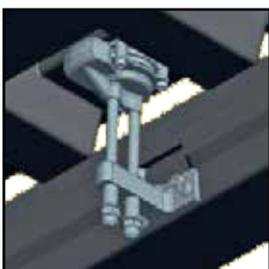
Locking mechanism

The twin locking mechanism is attached to the frame allowing the cover to move up and down freely in its spring-loaded riser. The cover can only be removed by unlocking the two locks, maintaining its security and integrity.



Side profile

Front profile



A limit to the rise

When a water surge arrives and the water pressure beneath the cover builds, the cover pops up by a maximum of 30mm. This dissipates the water and pressure while ensuring that the cover doesn't become a hazard for pedestrians or motorists.

