

Decreasing contamination entry in industrial enclosures.

When an improved door latch retrofit can impact component life.



Why enclosures with clamps are prone to contamination entry

Despite quality door seals and proper NEMA ratings, clamp style enclosures are failing to protect internal components. The doors are often left unsecured or partially secured, as many technicians will not completely tighten the door clamps. It is not uncommon to see an enclosure where the upper clamps are “finger tightened” and the lower clamps are unsecure.

This can leave PLC I/O, power supplies, VFDs, and other components covered in solid contaminants, which will ultimately result in shorter life or poor performance.

Improved latches and retrofits improve enclosure seal and provide more convenient access

Clamp style enclosures should be avoided where possible. They are not convenient to open and require too much effort to close for busy technicians.

New enclosures should be selected with improved door latches, and existing enclosures may be retrofitted. This is especially true in process environments where there is

Start using a better door latch

An improvement would be a quarter turn latch style enclosure such as the Hoffman Concept series. This enclosure typically cost 10-15% less than comparable clamp styles.

The best choice however is a 3 point latch, physically securing the door at its top, center, and bottom. This provides a tight and more consistent seal with the convenience of a single handle. Hoffman offers wall mount enclosures in both 4X stainless and 4/12 models.



Getting started

Contact EECO at 800.993.3326 to purchase retrofit kits or learn more about the 3 point latch.

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About The
3 Point Latch
800.993.3326

