



AT ISSUE: ▼

Many padmounted transformer specifications require welded-on covers because bolt-on covers are sometimes considered suspect in terms of their ability to maintain reliable seal integrity and tamperproof security, and prevent contamination of the insulating fluid.



RECOMMENDATION: ▼

With their gasket sealing system, bolt-on tank covers offer easier maintenance without compromising seal integrity or transformer reliability, while providing industry-standard tamper resistance.



RATIONALE: ▼

RELIABILITY

Seal Integrity.

The bolt-on tank cover and gasket construction meets all ANSI pressure with-stand requirements and passes all associated tests. These tests verify that the performance of a bolt-on tank cover is equal to that of a welded cover.



No Tank Contamination During Maintenance.

The user is able to remove the tank cover of a transformer using simple, readily available hand tools. In contrast, the use of an air-arc cutting tool or grinder is required to enter a tank with a weld-on cover. Using a grinder or cutting tool can contaminate the dielectric fluid with metal debris and compromise the integrity of the coil insulation.



MAINTENANCE COST

Full Access to Tank Internals.

When the bolt-on tank cover is removed, the user has full access to the entire tank and its internal components. Part change-outs or product improvements can be done easily, not restricted by a smaller hand hole with bolted cover plate as used by other manufacturers. Onsite or offsite repairs of any type can be completed at less cost due to having the quick and clean access to the tank's interior.



Reusable Cover.

The tank cover is reusable, without any deformation of its size or shape when removed from the tank. The cost of a replacement gasket (which may not even be necessary) does not even approach the cost of removing and re-welding or replacing a weld-on tank cover.



SECURITY

Reliable Tamperproof Protection.

The cover design is tamperproof per ANSI C57.12.28.



THE BOTTOM LINE: ▼

Cooper three-phase transformers rated through 1500 kVA come standard with bolt-on tank covers and provide exceptional value. The bolt-on cover design withstands the rigors of tank pressure build-up, is rated tamper proof per ANSI, domed to repel standing water, and fully removable. The bolt-on tank cover is superior to weld-on types when considering future transformer tank "internal" upgrades, and transformers with bolt-on covers can also have greater resale value. They can be specified with confidence.

