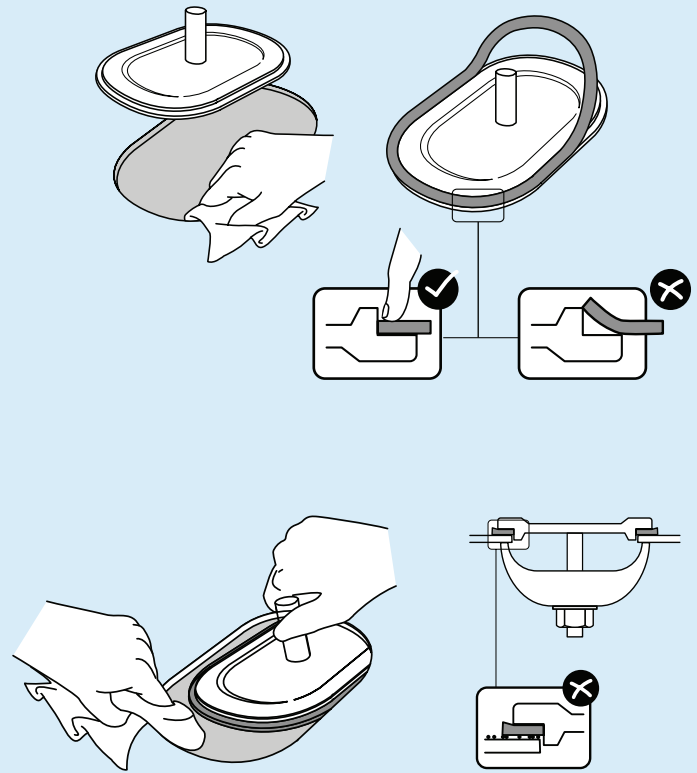


# Topog-E® Series 3000 gaskets

## Installation Guide for Gaskets in Steam Boilers

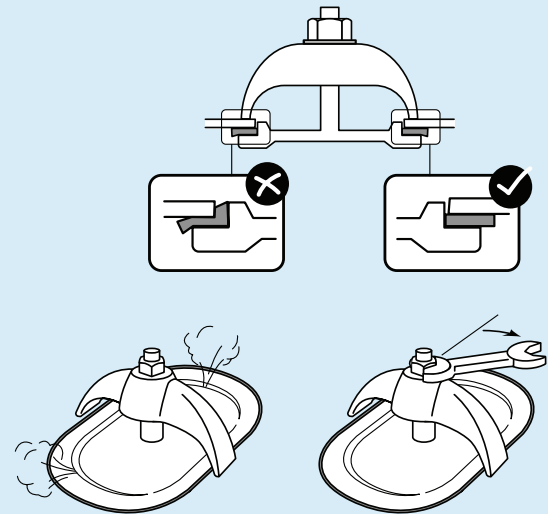
### STEP 1 - PREPARATION

- **Removal of Existing Gasket:** Remove the existing gasket and meticulously clean the sealing surfaces on both the boiler shell and the cover plate. When replacing gaskets other than the Topog-E® Series 3000, abrasive cleaning or buffing of the surfaces may be required to ensure a smooth and clean seal, which is essential for optimal gasket performance.
- **New Gasket Installation:** Place the new Topog-E® Series 3000 gasket onto the inspection cover plate, ensuring it is uniformly seated and correctly positioned without gaps. Avoid the use of any lubricants, adhesives, or greases. Before the final assembly, perform a meticulous cleaning of the mating surface inside the boiler using a clean rag to remove any residual debris or particulates. Gaskets installed on the lower sections of the boiler shell are particularly vulnerable to leaks due to trapped particles; if leakage is observed, drain the boiler and re-install the gasket to extend service life and maintain sealing integrity.



### STEP 2 - INSTALLATION

- **Alignment and Tightening:** Align the cover plate precisely with the boiler opening, position the retaining crab, and tighten the nut until it is snug. Begin by tightening manually, then use a wrench to apply an additional quarter turn, ensuring adequate compression of the gasket. Excessive tightening should be avoided to prevent over-compression, which can damage the gasket material and reduce its operational lifespan. Torque lubricated bolts between 75-130 ft. lbs. for Handhole gaskets and up to 220 ft. lbs. for Manway Gaskets. Alternate between crabs 75-150-220 ft. lbs.



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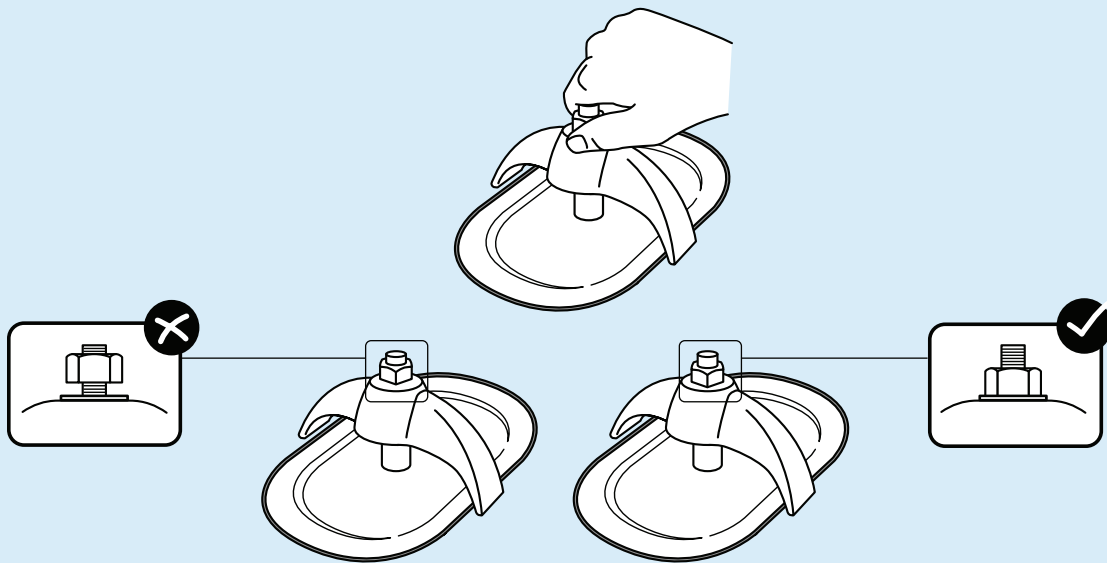
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### STEP 3 - GASKET ADJUSTMENT

- **Controlled Tightening:** Avoid over-tightening the gasket, as this can induce excessive compression, leading to gasket degradation or failure. If leakage occurs during pressure build-up, adjust the nut incrementally, tightening just enough to stop the leakage.
- **Pressure Adjustments:** As the boiler reaches its standard operating pressure, the retaining nut and crab may experience slight loosening due to ongoing gasket compression. Maintain the nut at least finger-tight until the gasket has fully seated and stabilized, ensuring the sealing remains intact.



### STEP 4 - CRITICAL CONSIDERATIONS

- **Single Use:** Topog-E® Series 3000 gaskets are designed for single-use only. Reinstallation of used gaskets is strictly prohibited as it compromises the sealing integrity and overall performance.
- **Application Range:** Topog-E® Series 3000 gaskets are specifically designed for use in steam water, air, and other compatible applications. Despite extensive testing and customer feedback, performance guarantees cannot be provided due to the variability of installation conditions outside of Topog-E® LLC's control.



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