Topog-E®

Heritage Series Boiler Door Joints

THE STEAM BOILER INDUSTRY'S STANDARD GASKETS

The steam boiler market makes extreme demands on gaskets; **Topog-E®** ***Heritage Series*** rubber gaskets are specifically formulated to meet and exceed these demands and deliver industry standard performance.

Topog-E® ***Heritage Series*** gaskets have been refined through a series of over 600 research formulation tests to ensure that they are able to meet the exacting performance standards of the steam boiler industry and Heritage markets.

TOPOG-E® BOILER DOOR JOINTS EXPECTED SERVICE LIFE IN STEAM BOILER APPLICATION

When used on steam boilers, **Topog-E®** gaskets are suitable for operating pressures of up to **250 PSI** (17 bar) and 208ºC (406˚F) in accordance with the Service Summary table below.** These levels represent the highest and continuous pressure level at which one can expect to obtain over the approximate service life in months from properly installed **Topog-E®** gaskets.

**SERVICE SUMMARY

Continuous Operating Steam Pressure in PSI (bar)	*Approximate Maximum Service Life in Months(1)*
Below 25 (2)	18-24
25-100 (2-7)	12-18
100-180 (7-12)	12-15
180-200 (12-14)	10-12
200-225 (14-16)	8-10
225-250 (16-17)	6-8

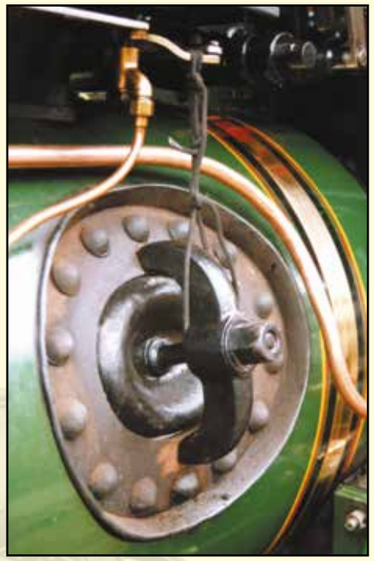
HERITAGE SIZES

Topog-E® gaskets are now available in 350 stock sizes and shapes including the many sizes required by Heritage Steam Locomotives and Traction Engines in preservation. Custom shapes, sizes and sheet material available on request.

(1) These figures are based on general customer experience, and do not represent any guarantee of service life for **Topog-E®** gaskets. Acutal service life obtained may vary.

MATERIAL DESCRIPTION

SPECIAL, PROPRIETARY RUBBER COMPOSTION, BLACK, 80-85 DUROMETER.



INSTALLATION ENVIRONMENT & SUITABILITY

Topog-E® ***Heritage Series*** gaskets are specifically formulated to have excellent resistance to steam, hot and cold water.

They also have good resistance to water treatment chemicals, when used in accordance with supplier's guidelines and should not have an effect on the service life of properly installed **Topog-E®** gaskets.

TOPOG-E BOILER DOOR JOINTS

Topog-E® ***Heritage Series*** gaskets have been used successfully around the world for over fifty years. In general, any type of industrial pressure vessel or tank that has inspection openings is a potential application where **Topog-E®** gaskets can be used as a cost effective sealing device. In addition to using them in steam pressure vessels, customers also use **Topog-E®** moulded gaskets and sheet material with great success in many other applications.

Specifically they:

Conform to the topography of the mating surfaces

Withstand a boiler's full, continuous and cycling operating pressures

Withstand continuous exposure to water treatment chemicals

Withstand continuous exposure to ion and oxygen attack in hot air

Prevent all leakage

Replace easily, without chiselling or buffing

The Topog-E Gasket Company invests heavily in research and development efforts to insure that **Topog-E®** gaskets live up to their worldwide reputation for quality, durability, and ease of use. **Topog-E®** gaskets are tested in-house at steam pressures and temperatures far exceeding the 180 PSI (12 bar) and 193˚C (380˚F) levels at which most **Topog-E®** gaskets are used in steam applications. Carefully installed and monitored **Topog-E®** gaskets are routinely tested and subjected for extended periods of time to steam pressures and temperatures of up to 360 PSI (25 bar) and 226˚C (438˚F).

ORDERING

SCAN TO ORDER

FROM OUR WEBSITE

DISCLAIMER

All information in this data sheet is based on data belived to be reliable, however we make no guarantee or warranty of performance of **Topog-E®** gaskets. Because there are many application-specific factors that can affect service life it is always advisable to first test **Topog-E®** gaskets in a particular application to determine their ultimate suitability.

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EMAIL : SALES@HERITAGESTEAMSUPPLIES.CO.UK

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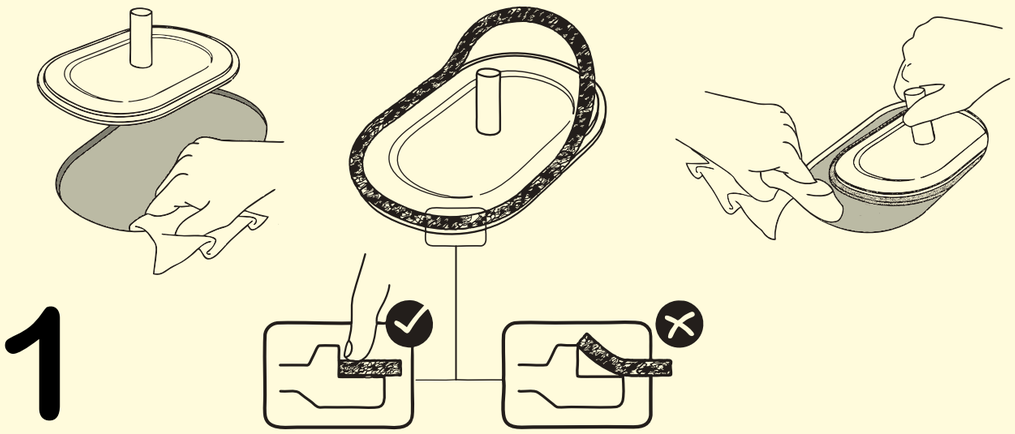
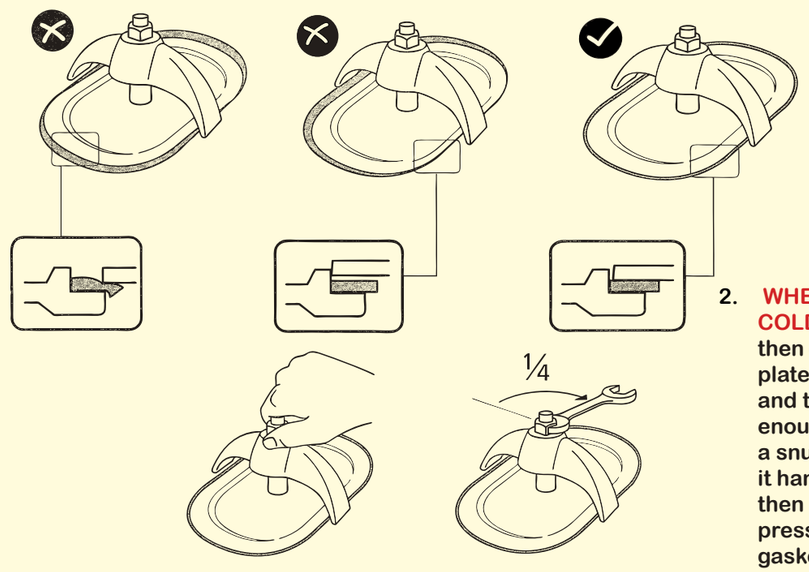
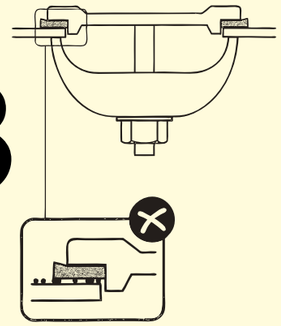
Topog-E Gasket Installation Instructions



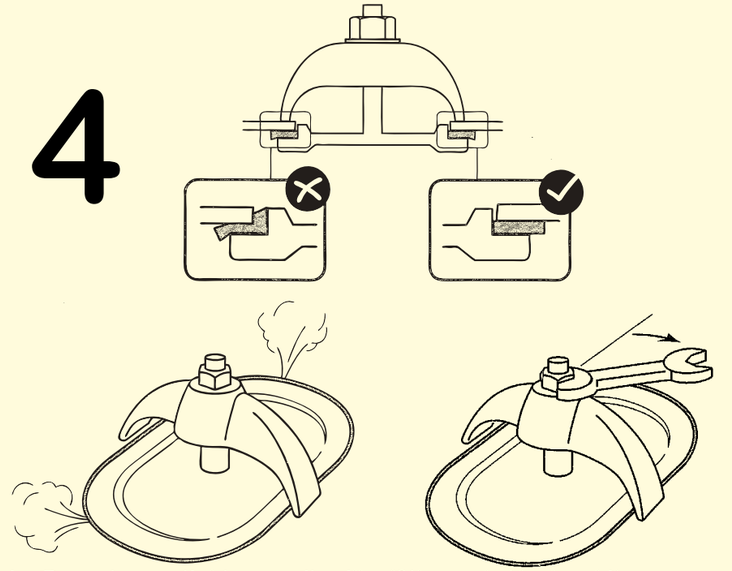
1. Remove old gasket and thoroughly clean the surface on boiler and on cover plate. If the gasket being replaced is not a Topog-E® gasket it may be necessary to buff each surface. Place a new Topog-E® gasket on inspection cover plate, and make sure that the gasket is pushed down tight on the plate. Do not use any grease, lubricant or adhesive. When the cover plate is in the boiler and the gasket is in place, make one last cleaning swipe using a rag wrapped around your finger to ensure the mating surface in the boiler is clean.



2. **WHEN FITTING COLD:** Set crab, then centre plate in opening and tighten nut enough to give a snug fit. Make it hand tight then increase pressure on the gasket with a quarter turn of a wrench.



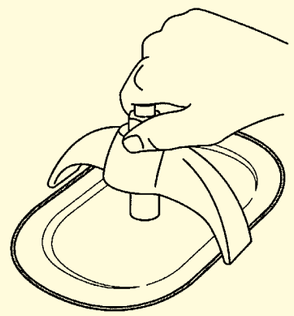
3. Gaskets on the bottom of a boiler shell are typically more difficult to install without leaking because small particles tend to become lodged between the mating surfaces after they have been cleaned. This can lead to over-tightening of the gasket to stop leakage. It is recommended to drain the boiler and start over, othewise the gasket's service life may be shortened.

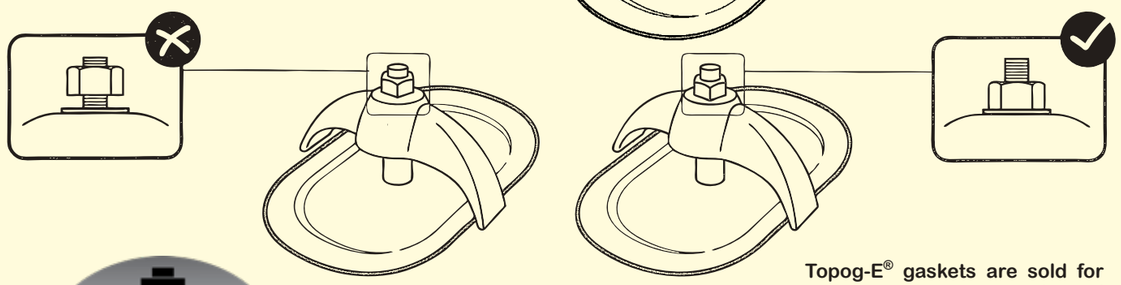


4. Do not over-tighten as it will over-compress the gasket and shorten its service life.

If the gasket leaks while pressure is being built up, tighten only enough to stop leakage. This prevents the vaccum that's developed by cooking on a shut down from pulling in and draining the boiler.

5. As pressure builds up to operating level in the boiler, the nut and crab will loosen as it typically takes several days for the gasket to reach its ultimate compression. It is important to keep the nut at least finger tight until it no longer loosens.





6. Never re-use a Topog-E® gasket!

7. Topog-E® bolt gaskets (when required) should be used with Topog-E® handhole gaskets

REMEMBER ALL GASKETS MUST BE RENEWED ANNUALY

Topog-E® gaskets are sold for use in steam, water, air and other selected applications only. Recommendations for their use are based on tests believed to be reliable and on actual customer experience. Since their installation and use are beyond our control we cannot guarantee the results, whether or not use such cause is in accordance with instructions. We disclaim any responsibility.

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