



SELCO SEAL® GASKETS

SERVICING THE WORLD



In Europe, one of the most demanding certificates with respect to leakage is the TA-Luft Certificate.

TA-Luft is an industrial testing guideline established to allow end users to compare different style and makes of gaskets against each other. They are tested based on the same set of test conditions.

We have been tested and achieved this certificate for our gasket designs that used graphite sealing element and PTFE sealing element.



Valve Bonnet gaskets in high temperature service were considered one of the most difficult sealing tasks for engineers. That is until the Selco Seal bonnet gasket was tested in these applications. As a result of this testing and the impressive results, applications within the valve industry have replaced sheet gaskets, spiral wound gaskets and camprofile gaskets with the superior performing Selco Seal gasket.



Power plants encounter several areas where high performances gaskets are necessary: turbine crossover tubing, manway/manhole/handle covers, heat exchangers, feed water boilers and high temperature high pressure valves e.g. Valve Bonnet Gaskets. All require a gasket that performs and creates a leak free environment.



Problems and Technological trends

Plants today need more operating flexibility, higher plant efficiencies and better overall performance. Modern power plants are designed and built to operate at higher temperatures (+700°C) and higher pressures (+350 bar). Many conventional gaskets cannot meet the new and more extreme operating conditions resulting from this technological trend. The Selco Seal gasket can operate under these increasingly difficult conditions. Resistant against temperature the Selco design delivers the same low leakage rate (< 10ppm @ He) at extreme temperatures as it does at room temperature and it has been used in the field at pressures exceeding 10,000 psi. Blow out, fire and explosion proof.

Stronger and therefore suitable in applications and equipment dealing with high thermal, mechanical and pressure cycling surges the Selco Seal has been selected by numerous engineers and plant maintenance experts to combat these difficult applications.

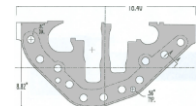
Reliable on start up with cycling flexibility, maintenance free and offering a long life cycle, the Selco Seal gasket has been used for many years by valve manufactures, valve repair companies and on leaking valve bonnet gaskets.

The reason for potential failures in these areas includes difficult operating conditions and the relatively small exposed gasket surface.

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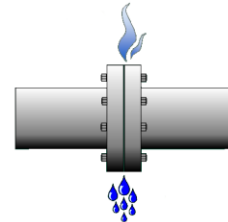
Spiral wound gaskets have no recovery capability while flexible graphite can be compressed 40% and can recover 20%. The spiral wounds lack of ability to recover results in premature failure and leakage. This results in a myriad of problems including untimely shutdowns, loss of productivity, wasted man hours. The leakage will often result in damage to valve seats and external valve insulation.

A Valve Bonnet Application

A valve bonnet gasket which had originally been finished with a standard flexible graphite sheet quickly began to have problems. The gasket design suffered from creep or cold flow unlike the corrugated design of the Selco Seal gasket which is blowout proof. The application reached temperatures in excess of 500°C and after several attempted retorques the gasket extrude into the internal bonnet area. This resulted in leakage and blowout with subsequent valve failure and contamination of the Valve seat.

Conclusion

A Selco Seal gasket was installed and solved the problem. Selco Valve bonnet gaskets will solve your customers leak problems and can be manufactured to fit minimum sealing space of 6.5mm.



Gasifier Valve Application

Equipment: Gasifier XV valves

Customer: A local valve service center

Problem: Valves required a rush repair as a result of plant commissioning issues. OEM die formed graphite packing and gasket rings were needed. The OEM supplier could not provide parts within a reasonable time frame. Sizes of gasket rings were all non standard metric and no dies were readily available.

The Solution: The OEM service shop was familiar with AW Chesterton’s style 1600 packing success in the area and contacted the AWC distributor for assistance. 270 sets of 1600 cut rung sets for valve stems were provided. 460 Selco Seal double gaskets with spacers were custom fabricated to replace the graphite rings for the body gasket.

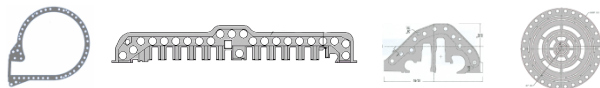
By utilizing gaskets that create leak free flanges plant operators will enjoy substantial savings in maintenance and loss of production while eliminating harmful emissions.

Just a few of the valve companies that are using our gaskets include in the USA:

OEM: Velan Valve, Orbit Valve, Cornerstone and Kitz.

After Market: Cooper Crane, Crosby Empro, Navco, Powell, Tapco, Walwarth and many more.

It is performance and reliability that helps gain and retain business but also the fact it can be customized to your customer’s requirements in size, shape, metals and seal. It is the fact that this gasket is so custom orientated that helps Specialist solve customer’s problems.

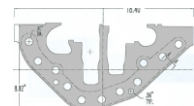


For assistance in placing an order or for further information, please contact us at sales@selcoseal.com or call us at (818) 765-7327.

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