

GL1H Hygienic Seal



SAFLEX H

A Truly Hygienic Seal

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Tested and certified under the European Hygienic Equipment Design Group (EHEDG), Saflex H will reduce downtime related to process contamination in food, drink and pharmaceutical applications.

The transmission of contaminants into the product due to the growth of bacteria in small cavities within conventional seal designs can result in equipment shutdown and costly interruptions in production cycles.

The Saflex H seal incorporates numerous unique features which have been designed to eliminate the cause of these shutdowns specifically in applications where hygiene is important and risks cannot be taken.



Designed around a formed twin ply bellows, the Saflex H seal has been specifically engineered to maximise the cleaning effects of the product flow. It has no moving secondary elastomers which can assist in the introduction of bacteria and the open convolutions enhance its ability to self-clean especially when used in viscous and abrasive media such as sugar, starch and chocolate.



The Saflex range has been proven over many years and this latest addition builds on this experience. The excellent EHEDG test results confirm that this is an outstanding solution for industries requiring mechanical seals for sterile environments and has also set new standards in hygienic equipment design.

Typical food, beverage and pharmaceutical applications include: -

- Dairy
- Sugar beet
- Confectionery
- Starch
- Distillery
- Soft drinks
- Oils and fats
- Pharmaceutical products



In fact, any part of a process where optimum sterile conditions are essential

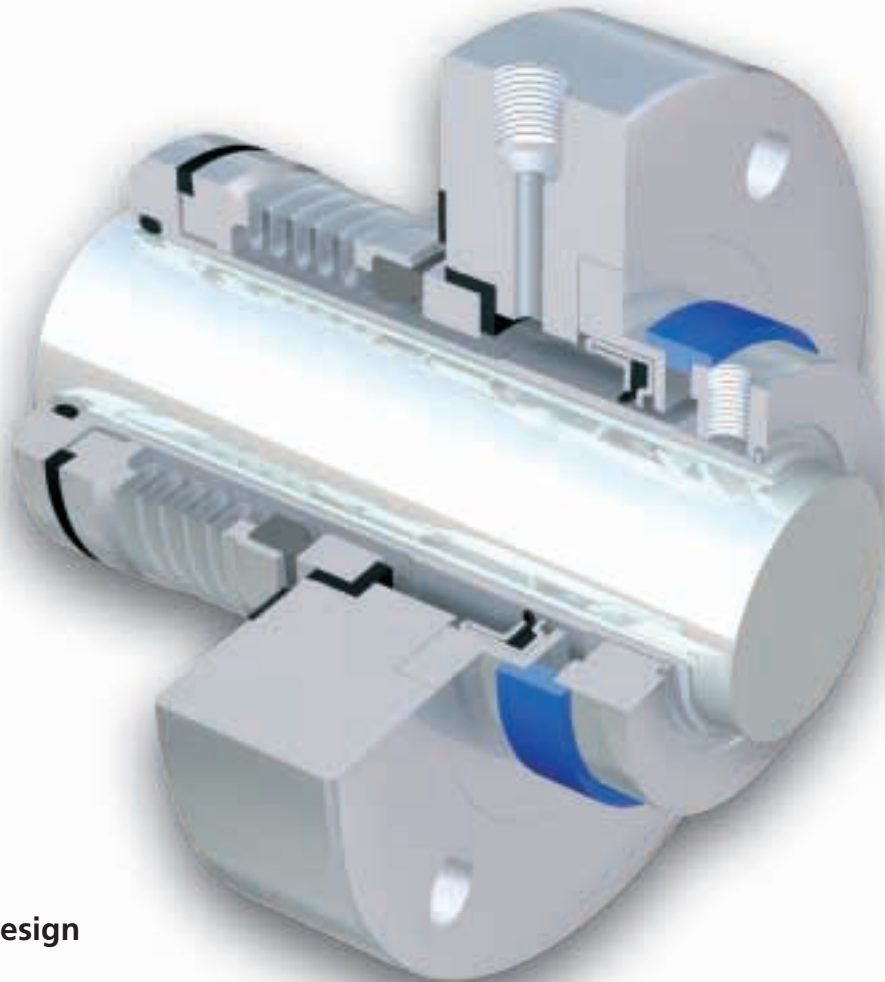
Features and Benefits

Simplicity and Cleanliness

- Formed bellows design
- Smooth self cleaning profile
- Optimum clean-in-place (CIP) and sterilise-in-place (SIP) cycles
- Increased performance on viscous and abrasive duties
- No dynamic elastomer:
 - Reduces contamination risk, less bug traps and dead areas
 - Reduces hang-up

Meets stringent processing standards

- Tested and certified with zero contamination under the European Hygienic Equipment Design Group
- Materials used comply to FDA and other standards



Cartridge design

- Easier to fit
- No measuring required
- Fits most equipment, pumps and mixers
- Reduces inventory

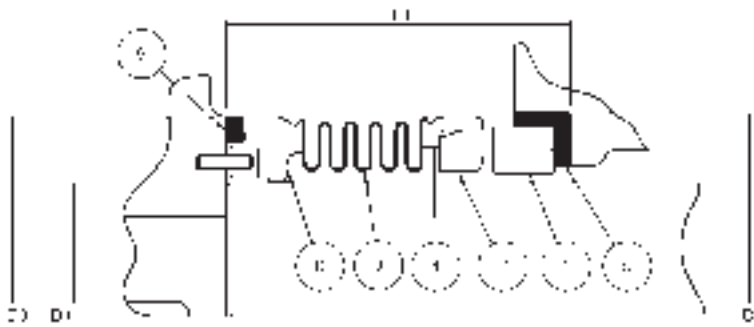
Variety of options – to meet all needs

- Cartridge construction
- Component format
- Stationary or rotating bellows

Type GL1H Typical Arrangement/Dimensional Data

Type GL1H Hygienic Bellows Seal

Classification	Hygienic Equipment Class 1 (CIP)
Performance Capabilities	(applies to all sizes)
Size Range	25 - 80mm
Pressure	10 bar
Speed	3,600 rpm
Temperature	150 °C



Materials of Construction

Component	Standard	Optional
1 Seat/Mating Ring	Silicon Carbide	SiC/Graphite composite
2 Face/Primary Ring	Carbon Graphite	SiC/Graphite composite
3 Bellows Core	Alloy 625	
4 Bellows End Fittings	316 stainless steel	Inconel 625
5 Seat Gasket	Fluoroelastomer	Ethylene-Propylene Nitrile
6 Bellows Gasket	Fluoroelastomer	Ethylene-Propylene Nitrile

Materials meet FDA regulations

Hygienic Seal Dimensional Data (mm)

Seal Size	D1 Shaft (mm)	D3 (max)	D7 (mm)	L1 (max)
0250	25	44	45	50
0300	30	49	50	50
0350	35	56	58	55
0400	40	61	63	55
0450	45	66	70	60
0500	50	71	73	60
0550	55	80	78	70
0600	60	85	83	70
0650	65	90	90	80
0700	70	99	97	80
0750	75	104	105	80
0800	80	109	110	90



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