

DEFORMED LARGE FORMAT GASKET



Oversized flat flange elastomeric gaskets are used to seal large perimeters in applications such as battery enclosures and oversized covers or pans. This type of gasket presents specific challenges for cost effective design, tooling, and production processes.

Freudenberg Sealing Technologies' Deformed Large Format Gasket (DLFG) uses a patented* design and molding process to enable injection molding of oversized flat flange gaskets on conventional-sized presses.

Design principle— straight sections of the gasket are shaped around corners in the mold layout. To allow these curved sections to straighten for use in the application, parts of the gasket design are cut away.

The patented **Deformed Large Format Gasket design*** uses cut-outs in only the areas of the gasket that do not affect the sealing function.

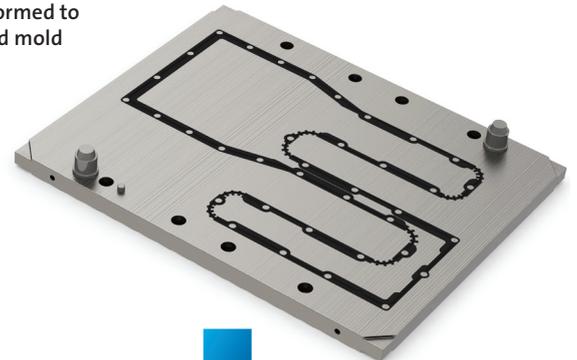
The **Deformed Large Format Gasket's patented design** reduces development time and allows cost effective manufacturing of oversized flat flange elastomeric gaskets.

* US patents 8,439,366B2/8,439,367B2

VALUES FOR THE CUSTOMER

- The deformed molding design saves on both the press and tooling costs by fitting the gasket shape into a smaller area. It also helps to reduce gasket development time.
- The patented deformation design allows bending of straight sections so the gasket fits a standard sized molding tool.
- Once in the final application, there is no loss of durability or gasket sealing performance in the sections deformed during manufacture.

Shape deformed to fit standard mold



Straightened for application



FEATURES AND BENEFITS

The DLFG design process is for flat flange elastomeric gaskets. To fit the gasket into the usable area of a standard mold, cut-outs are used in areas of the gasket design that do not affect the sealing function.

- **Applications**— flat flange gaskets for sealing large perimeters such as battery enclosures and oversized covers or pans.
- **Typical Size**— the DLFG process allows molding of gaskets up to 100% larger than with conventional non-deformed gaskets.
- **Materials**— standard compound options include ACM, EPDM, HNBR, and FKM.
- **Performance**— the cut-outs do not affect the gasket sealing function in the application.

With our patented design* the DLFG maintains the highest standards of sealing performance and durability required for all Freudenberg Sealing Technologies gaskets in extreme conditions.

With the Deformed Large Format Gasket, you have more gasket solutions than ever before.



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Deformed Large Format Gaskets (DLFG) Cut-Outs



Cut-outs are made in areas that do not affect sealing in the final gasket application.



Cut-outs allow bending of straight sections to fit an oversized gasket design into the usable area of a standard mold, saving press and tooling costs.

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