

Food and Beverage



The importance of consumer safety and the nature of the Food & Beverage Industry's processing environments dictates the use of components that meet a demanding list of standards and regulations. Daemar's lineup of Essential Components has been developed to provide confidence to manufacturers that their products will perform in these types of environments. Whether it be Metal Detectable Seals that help prevent product contamination or Wash Down Bearing Isolators that protect bearings, gearboxes and motors from the aggressive procedures of equipment sanitation and washdown.

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Solutions for Food & Beverage

Our components are found in many types of equipment operating in the demanding sanitary environments of the Food & Beverage processing industry. Our seals, o-rings, bushings, retaining rings and shim are essential components in valves, pumps, gearboxes, motors and conveying equipment. Selecting the correct material and design for these components is crucial to the longevity of your processing equipment and can help reduce maintenance costs and downtime.

These components are designed and engineered to perform in the harsh food and beverage environment; the products must be resistant to the food materials they are exposed to, they must also be able to withstand the regular cycle and chemicals of washdown. There is the added level of complexity created by the Government regulations and standards for products involved in food and beverage processing operations.

X-Ray and Metal Detectable Seals

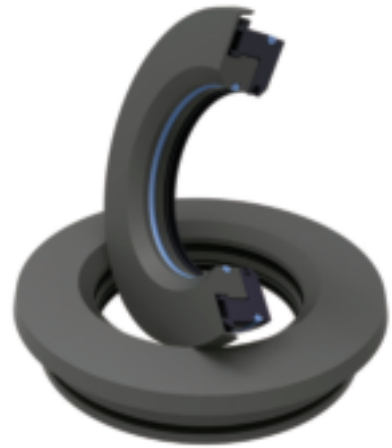
Designed to work with any Food Processing conveyor, pipe line or free fall detection system, these industry specific parts can help eliminate product recall, lower product loss and stop distribution of contaminated product.

Developed for microbial, high-temperature and mechanical applications, metal detectable o-rings, sanitary gaskets and hydraulic seals are available in a range of elastomers including: Buna, EPDM, Viton and Silicone.



Washdown (WD) Bearing Isolators

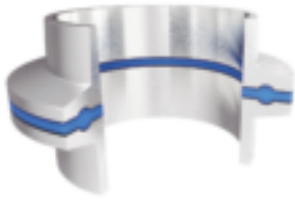
Machine downtime due to bearing failure is costly. By keeping lubrication in and contaminants out, bearing isolators provide reliable protection of rotating equipment for extended bearing life – particularly in high pressure food and beverage wash down conditions. Labyrinth sealing technology applied to high performance materials allows ProTech WD Profile bearing isolators to operate far beyond shaft speed limits of standard radial lip seals and avoid shaft wear.



Additional features include:

- *Delivers highest level of exclusion against high-pressure water spray and dust*
- *Meets IP-56, IP-66, and IP69K testing for dust and water exclusion*
- *Specifically designed to exclude high pressure water spray and dry contaminants in limited space*
- *Food grade and anti-microbial material available per ASTM JIS Z2801 testing*
- *Not compatible with oil lubricated systems.*





Sanitary Gaskets

Hygienic seals and sanitary gaskets are used widely in the Biotech, Pharmaceutical, Dairy, Food & Beverage, Industrial and Semi Conductor industries to seal clamp connections in sanitary pipe lines.

DMR sanitary gaskets are available in a range of FDA compliant elastomers, metal detectable elastomers, fluoroelastomers and Kalrez perfluoroelastomers.

For applications that require USP Class VI, we offer compounds in EPDM, Viton, Silicone and PTFE to meet these standards.



Urethane Belts

Vee and Round Urethane drive belts available in FDA/USDA grade materials and a range of durometers and diameters for the specific application. Supplied from cord stock and fabricated to the exact size required, the belts can be bonded on site.

FDA-USDA Self Lubricating Bearings

These bearings offer food process, pharmaceutical, packaging machinery and medical equipment engineers 3 off-the-shelf, FDA/USDA compliant linear bearing options.

FDA/USDA Compliant Linear Bearings

The FDA/USDA Linear Motion Bearing has a 304 stainless steel shell: featuring an FDA/USDA compliant PTFE, self lubricating liner. Available in closed & open configurations from 1/4" ID - 1.5" ID.



Fluidline Linear Bearings

Fluidline Linear Bearings are an internally lubricated thermoplastic polyester which provides for enhanced wear and chemical inertness. Fluidline Linear bearings are self-lubricating, low friction and lightweight. Low wear material is excellent in applications which require FDA, USDA and 3A compliance.



FDA Lite™ Linear Motion Bearings

Made with our Ceramic Coated Aluminum Shell and our self-lubricating FDA white, PTFE composite liner, this bearing offers FDA/USDA compliancy, is 1/4 the weight of our stainless bearings and costs less.





Application Equipment:

- *Rotating and reciprocating equipment*
- *Valves*



Features:

- *High Chemical Resistance*
- *Low Coefficient of Friction*
- *FDA compliant*
- *Outperform solid PTFE*
- *Low Compression Set*
- *Non Stick Surface*

Braided Packing

PTFE packing, interlock braid with a break-in lubricant. Food Grade FDA PTFE filaments and break-in lubricant. Manufactured from pure PTFE yarns lubricated with a food grade break-in lubricant. 154FDA complies with the FDA and USDA requirements under Title 21 Food and Drugs, 178.3570, Lubricants with Incidental Food Contact, 177.1500, Perfluorocarbon Resins. 154FDA contains only materials permitted for food contact use by U.S. Department of Agriculture and the Food and Drug Administration.

PTFE Encapsulated Viton® O-rings

PTFE Encapsulated Viton® o-rings are o-rings consisting of a seamless and uniform PTFE FEP/ PFA encapsulation/jacket which completely encloses a core material Viton® fluoroelastomer (also available in silicone). The combination of these components creates an o-ring that is virtually chemically inert and compression set resistant for use in harsh sealing environments. Encapsulated o-rings will decrease downtime and hence increase profitability wherever corrosive fluids and gases cause premature seal failure.

Materials for the environment:

Daemar provides seals in a range of FDA Approved food grade elastomeric materials well suited for the operating environment, in addition many of our metal products including retaining rings, linear bearings, and shim are available in stainless steel to eliminate corrosion and to allow for proper washdown of the equipment.

Our elastomers, plastics and metals are available in a range of compositions and grades to best match the demands of your process.

Stainless steel: This material is easy to clean and maintain therefore lending itself to the sanitary procedures and equipment washdown required in food and beverage processing environments. 304 is the standard grade of stainless and for harsher environments with Chlorides or industrial solutions grade 316 is better suited.

Elastomers: A range of FDA approved food grade versions of elastomers for our seals and o-rings that meet FDA requirements and NSF regulations for food processing applications including: FDA Silicone, FDA EPDM, FDA NBR, FDA Neoprene, FDA FKM (Viton), FDA PTFE, FDA PTFE Encapsulated, FFKM (Kalrez). These elastomers are utilized where the seal comes in contact with the food, applications include: food processing, beverage, dairy, meat packing, and pharmaceutical industries.



Daemar Inc.

Daemar supports the Food, Beverage & Pharma Processing industries with a broad range of products that provide sealing, retaining, low friction running surfaces, alignment and protection. These products are manufactured in FDA grade materials.

Combine our product mix with local inventories and EDI computer systems integration and Daemar becomes a valuable supply chain partner who can help reduce your acquisition costs.



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