

Flex Fuel Diaphragms

Uncompromising Sealing & Flexibility in Advanced Fuel Environments

In an evolving automotive and industrial landscape, standard elastomers fall short. As ethanol blends, bio-diesel, and aggressive fuel additives become the norm, your equipment demands sealing components engineered for extreme chemical resilience.

Diacom Corporation Flex Fuel Elastomer Diaphragms deliver the precise balance of fuel resistance, fabric-reinforced integrity, and long-term swelling resistance needed to keep your systems running flawlessly.

Why Choose Our Flex Fuel Elastomers?

- Superior Fluid Compatibility: Engineered specifically to withstand high-ethanol gasoline blends (E15 to E85), bio-diesel, aromatics, and aggressive additives without degrading.
- Minimal Swell & Permeation: Exceptional resistance to volume swell and vapor permeation ensures dimensional stability and predictable calibration over millions of cycles.
- Fabric-Reinforced Integrity: Available with precision-woven fabric reinforcements (such as polyester, nylon, or aramid) to handle high-pressure fluctuations without mechanical fatigue.
- Extended Thermal Range: Maintains critical flexibility at sub-zero temperatures while resisting thermal breakdown under intense engine-bay heat.
- Quality Compliance - Manufactured under strict AS9100 / ISO 9001 quality standards

Our diaphragms are custom-engineered for critical fluid control applications across the automotive, aerospace, and industrial sectors:

- Automotive Fuel Delivery & Injection Systems
- Small Engine Carburetors & Fuel Pumps
- Industrial Fuel Metering & Dispensing Pumps
- Vapor Recovery Sealing Systems
- Alternative Energy Fluid Control Valves



Partner with the Diaphragm Experts

Don't let material failure compromise your system's performance. From custom compounding and prototype design to high-volume production, we deliver the exact elastomeric sealing solutions your application demands. Ready to upgrade your fuel system reliability? Please contact your Diacom Team to answer any questions and discuss potential diaphragm designs using this technology.

Diaphragm Design & Manufacturing Leader

Diacom Corporation is a U.S. manufacturer of precision-molded elastomeric, fabric-reinforced, and multi-layer bonded diaphragms. From its AS9100/ISO 9001 facility in Amherst, NH, Diacom integrates internal CNC tooling, advanced molding, and an ASTM materials lab to serve the aerospace, automotive, medical, food processing, water control, appliance, and industrial markets worldwide. This vertical integration delivers diaphragms with exceptional dimensional accuracy, fatigue resistance, chemical compatibility, and long cycle performance.

 **DIA·COM CORPORATION**
The Diaphragm Company
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