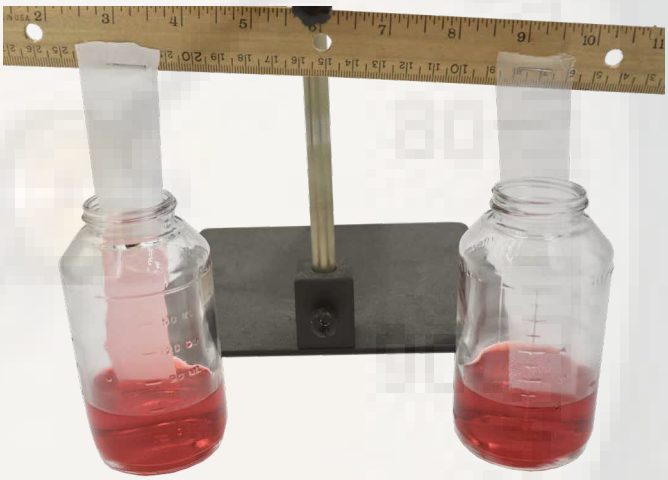
Wick Resistant Diaphragm Seals

In high-performance mechanical systems, diaphragms serve as flexible barriers that regulate pressure, isolate fluids, and ensure precise control in valves, pumps, actuators, and regulators. Among the various diaphragm types, fabric reinforced diaphragms stand out for their durability and adaptability.

In some fabric reinforced diaphragm applications wick resistance is required. Diacom uses a couple different methods to make these diaphragms wick resistant.

One innovative approach DiaCom uses is to seal off ID holes and vent holes with rubber. This eliminates the potential of pressurized fluid or gases to travel through the diaphragm thus causing a leak or rupture. This has been done effectively on many different types of diaphragms at Diacom.

Another process we use is the integration of wick-resistant fabrics, which significantly enhances the diaphragm's performance in moisture-prone and chemically aggressive environments. These fabrics are pretreated with a proprietary coating that is absorbed into the fabric fibers making them resistant to fluid or gas migrating through the fabric threads.



As industries demand greater reliability, precision, and environmental resistance, wick-resistant fabric reinforced diaphragms are poised to become standard in critical applications.

Please contact the Diacom sales team to answer any questions and discuss potential diaphragm designs using this technology.

Diaphragm Design & Manufacturing Leader

DiaCom Corporation, an ISO 9001 and AS9100 certified company, is a recognized leader in the design, manufacture and application of innovative, high performance molded diaphragm seals. DiaCom serves a variety of markets worldwide including industrial, automotive, aerospace, food processing, water control, medical instrumentation, appliances and others. DiaCom offers state-of-the-art diaphragms designed for cost effectiveness, ease of installation, conservation, durability, and high performance characteristics.

DIA-COM CORPORATION
The Diaphragm Company
Online Guidebook: www.diacom.com

5 Howe Drive Amherst, NH 03031 USA
Phone: 800.632.5681 603.880.1900 Fax: 603.880.7616
Internet: www.diacom.com Email: marketing@diacom.com

nqa AS 9100 Registered Aerospace and Defense

December 2025