Garlock® One-Up®

PUMP DIAPHRAGM



GUARANTEED TO LAST LONGER

GARLOCK° **ONE-UP**° pump diaphragms, with proprietary PTFE on the wetted side, are a significant advancement over conventional PTFE diaphragms. Considerably stronger, with greater flex life, they provide a dramatic improvement in service life. Satisfaction guaranteed, or purchase price refunded.

DURABLE VERSATILITY

Chemical resistance is the property that makes **GARLOCK**° **ONE-UP**° pump diaphragms so versatile. Suitable for use with most chemicals and in elevated temperatures and pressures, these diaphragms are ideally suited for those general service pumps that are likely to be put to one use today and another use tomorrow.

You can expect long, effective service life and reduced maintenance costs with these durable one-piece diaphragms. Strength and chemical resistance make **ONE-UP**° pump diaphragms perfect for most of your pumping requirements.

GARLOCK® ONE-UP® diaphragms may be used in potentially explosive atmospheres when installed in ATEX compliant pumps. For further information, please contact your local Garlock representative.

TECHNICAL DATA MATERIAL/CONSTRUCTION

One-piece composite design with a proprietary 100% PTFE on wetted side.

TEMPERATURE RANGE

Neoprene backing: 14°F to 200°F (-10°C to 93°C) EPDM backing: 14°F to 280°F (-10°C to 137°C) Viton® backing: 32°F to 350°F (0°C to 176°C)

CHEMICAL RESISTANCE

Chemical resistance to all media in pH 0 – 14 range, except molten alkali metals and elemental fluorine.

FLEX LIFE

>70MM cycles (ASTM-D-2176, 0.020 in. thick, 0.600 in. wide)

IMPACT STRENGTH

30.4 ft. lbs./in. (ASTM-D-256, 0.220 in. thick)

PHYSIOLOGICAL SAFETY

FOR INDUSTRIAL USE ONLY. Not for use in food, drug, cosmetic or medical device manufacturing, processing, or packaging operations.



KEY FEATURES

- Made from a proprietary 100% PTFE
- · Bonded to a reinforced rubber backing
- Patented rib construction
- Chemically inert & temperature resistant
- Greater flex life
- Available for most brands of pumps & sizes

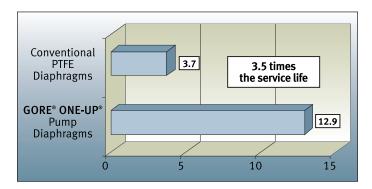
KEY BENEFITS

- Lasts Longer: Replace diaphragms less often
- Versatility: Diaphragms work with most chemicals
- Cost: Lowers maintenance and operating costs



FIELD TESTING

GARLOCK° ONE-UP° pump diaphragms have been extensively field tested in a wide variety of industries including chemical processing, paint, solvent and detergent manufacturing, and wastewater treatment. Documented case histories show that the average service life is 3.5 times longer than conventional PTFE diaphragms.



LONG SERVICE LIFE

The superiority of the PTFE technology developed by Garlock ensures that pump diaphragms will provide extended service life.

| Property | ASTM Method | Sample Dimensions (Thickness) | Conventional PTFE (Literature) | GORE PTFE (Test Data) |
|--------------------------------------|------------------|-------------------------------------|-----------------------------------|--------------------------|
| Flex Life (MM cycles) | ASTM- D- 2176 | 0.020 in. 0.600 in. | 4.1 | 70+* |
| Impact Strengh (ft lbs/in) | ASTM- D- 256 | 0.220 in. | 2 – 3.5 | 30.4 |
| Tensile Strength (psi) | ASTM- D- 638 | 0.220 in. | 4000 – 5200 | 14920 |
| Mullins Burst (psi) | ASTM D- 3786 | 0.020 in. | 180** | 540 |
| Tensile Creep (1000 hr, 1000 psi) | ASTM-D- 2990 | 0.100 in. | 20% – 30%** | 9% - 10% |

Sample dimensions are given to compare conventional PTFE to Garlock's PTFE for testing purposes and do not represent actual diaphragm dimensions.

^{**} Actual test results for conventional PTFE film.





EASY INSTALLATION

Since the GARLOCK® ONE-UP® pump diaphragm is a one-piece design, it is simple to install. Whether it incorporates bolt holes or a perimeter sealing bead, it fits easily into the pump housing without the difficulties associated with installing two-piece diaphragm sets.

SATISFACTION GUARANTEED

We guarantee your satisfaction. If, on your initial order, you are not completely satisfied with the performance-in-use of the diaphragms, return them to us for a full refund of the purchase price.

AVAILABILITY

GARLOCK° ONE-UP° pump diaphragms are available for the following makes of air operated diaphragm pumps: ALMATEC, ARO, DEPA, BLAGDON, FLOTRONICS, GRACO, UNITEC, VERDER, VERSAMATIC, WARREN RUPP, WILDEN, YAMADA.



an EnPro Industries company

Garlock Sealing Technologies 1666 Division Street Palmyra, New York 14522 USA 1-315-597-4811 1-800-448-6688 Fax: 1-800-543-0598 1-315-597-3039

www.garlock.com

Other facilities within the Garlock family companies are located in: Columbia, SC, USA Phone 1.803.783.1880 Fax 1.803.783.4279 Houston, TX, USA Phone 1.281.840.4800 Fax 1.315.597.3216 Houston, TX, USA Phone 1.713.747.6948 Fax 1.713.747.6029 Denver, CO, USA Phone 1.303.988.1242 Fax 1.303.988.1922 Phone 61.2.9793.2511 Fax 61.2.9793.2544 Sydney, Australia Auckland, New Zealand Phone 64.9573.5651 Fax 64.9573.5636 São Paulo, Brazil Phone 55.11.4352.6161 Fax 55.11.4352.8181 Sherbrooke, Canada Phone 1.819.563.8080 Fax 1.819.563.5620 W. Yorkshire, England Phone 44.1422.313600 Fax 44.1422.313601 Saint-Étienne, France Phone 33.4.7743.5100 Fax 33.4.7743.5151 Neuss, Germany Phone 49.2131.3490 Fax 49.2131.349.222 Mexico City, Mexico Phone 52.55.5078.4600 Fax 52.55.5368.0418 Singapore Phone 65.6285.9322 Fax 65.6284.5843 Shanghai, China Phone 86.021.64544412 Fax 86.021.34080906 Dubai, UAE Phone 971.4.8833652 Fax 971.4.8833682 Pune, India Phone 91.20.3061.6608 Fax: 91.20.3061.6699

DIA 6:1 VIA 8/11

Test was stopped over time.